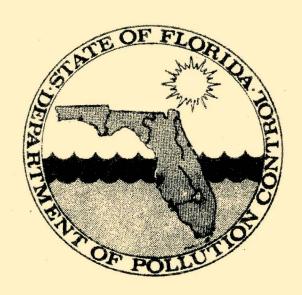
STATE OF FLORIDA AIR IMPLEMENTATION PLAN



Florida Department of Pollution Control
Tallahassee, Florida
January, 1972





DEPARTMENT OF POLLUTION CONTROL

SUITE 300, TALLAHASSEE BANK BUILDING 315 SOUTH CALHOUN STREET, TALLAHASSEE, FLORIDA 32301

VINCENT D. PATTON

May 5, 1972

DAVID H. LEVIN

Mr. Tommie A. Gibbs, Director, Air Programs Branch Environmental Protection Agency 1421 Peachtree Street, Northeast Atlanta, Georgia, 30309

Subject: Revisions to Air Plan

Dear Mr. Gibbs:

The attached materials are our revisions to various sections of the Air Plan submitted by the State of Florida, as requested in a letter dated April 10, 1972, from your office and subsequently in a meeting Messrs. Mauriello and Subramani had with your staff on April 17, 1972.

(1) CFR 51.11: A question was raised about the State not being able to enforce regulations during the suspension of authority of local programs if House Bill 3947 (copy enclosed), introduced during the 1972 Legislature, did not pass. The Bill, if passed, would have provided for correction of this deficiency. However, this deficiency can, at the present time, be remedied under the provisions of Chapter 403.182(5) by providing for State enforcement in the Board Order.

Attached also, is a copy of the letter from Attorney G. William Frick of EPA to our Mr. John Bottcher of the Attorney General's office on the same subject. You will note that the interpretation of the Florida Air and Water Pollution Control Act provides concurrent authority.

(2) CFR 51.14: Predicted emissions for hydrocarbons in the northeast and northwest regions, particularly in Duval and Escambia Counties have now been included in the Emission Inventory Summary. Please replace pages C-18 through C-21 and C-59 through C-62 of the submitted Plan with the enclosed corrected pages.

- (3) CFR 51.15: Regarding the submission of compliance schedule (Note 3), please replace page 8 of the submitted Plan with the attached corrected page 8. Regarding the issuance of variances (Note 6), please replace page 9 of the Plan with the attached corrected page 9.
- (4)CFR 51.16 and 51.17: Regarding Note 6A and Note 8, please replace page 276 with the attached corrected page 276. Discrepancy of ozone monitors in page 211 has been corrected to read three ozone monitors (Figure 68 of the Plan).
- (5) CFR 51.20: Resources section has been changed and the projections are given in Appendix K format for each air quality control region, including the projections for each local program. Please replace the whole section with the attached new section.
- (6) CFR 51.21: Specific responsibilities for each local agency have been outlined in the attached material. Also, included are letters of assurances to the bordering states of Alabama and Georgia.
- (7) CFR 51.22: Test methods have been specified and this information has already been transmitted to your office in our letter of April 10, 1972. Enclosed is a copy of our adopted test methods.
- (8) We found some typographical errors in Table XIV, pages 216 and 217, which have been corrected. Enclosed are the corrected pages 216 and 217 of the Plan.

If you have any questions or need additional information, please contact this office.

incent D. Patton

VDP/spm

Enclosures

cc: C. G. Mauriello

D. H. Scott

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3947 A bill to be entitled

An Act relating to pollution control, providing statewide enforcement jurisdiction for the department of pollution control; providing for state enforcement of stricter local laws; providing for violations of stricter local laws; providing for local enforcement; providing for cooperation; repealing sections 403.182(6) and 20.26(5), Florida Statutes; providing an effective date.

Be It Enacted by the Legislature of the State of Florida:

Section 1. Section 403.182, Florida Statutes, is amended by adding four new subsections to read:

403.182 Local pollution control programs.--

() Notwithstanding the existence of any local pollution control program, whether created by any county, municipality, combination thereof or a special law, the department shall have jurisdiction to enforce the provisions of this chapter and any rules, regulations and orders issued pursuant to this chapter, throughout the state; provided that

wherever rules, regulations or standards of a stricter or more stringent nature have been adopted by a local pollution control program, the department shall enforce the same in the applicable geographic area.

- florida Statutes, to violate or fail to comply with a rule, regulation or standard of a stricter or more stringent nature adopted by a local pollution control program and the same shall be punishable as provided by Section 403.161, Florida Statutes.
- () Nothing in this act shall prevent any local pollution control program from enforcing its own rules, regulations or standards.
- shall cooperate with and shall assist the department in carrying out its powers, duties and functions.

Sections 403.182(6) and 20.26(5), Florida Statutes, are repealed.

Section 3. This act shall take effect October 1, 1972.

Where the Department and a local program institute separate lawsuits against the same party(s) for violations of a state or local pollution law, rule, or regulation arising out of the same act, the suits shall be consolidated where possible.

OFFICE OF GENERAL COUNSEL 5600 Fishers Lane, Room 17B-41 Rockville, Maryland 20852

April 6, 1972

ROBIVE

PR 1 0 1972

Mr. John Bottcher
Special Assistant Attorney
General

The Capital
Tallahassee, Florida

Dear Mr. Bottcher:

This will confirm our telephone conversation of April 5 regarding the State of Florida implementation plan. Specifically, I was concerned over the provisions of §403.182, Florida Statutes, which can be read to provide that an approved local pollution control program has exclusive authority within its jurisdiction unless the approval is terminated pursuant to procedures listed in that section. This would effectively preclude State enforcement which

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would violate the provisions of 40 C.F.R. 51.11(f).

However, it is my understanding that your office interprets
the "Florida Air and Water Pollution Control Act" to provide the State Department of Pollution Control with concurrent authority. Therefore, should a local agency default in the enforcement of its regulations, the State
Department may immediately enforce its own regulations.
You recognize that the statute is not clear and that a
court might make a contrary interpretation of the statute
and preclude the State from enforcing without a hearing and
appropriate termination of the approval of the local program.
At the present time, it would be your opinion that the existence of local pollution control programs does not relieve the
State of responsibility for carrying out the State implementation plan.

We also discussed the legal authority of the local programs. It is your opinion that because a program cannot be approved by the State Department of Pollution Control without having adequate authority to meet the requirements of the Air and Water Pollution Control Act and without having requirements compatible with those imposed by the State agency, the legal authority of the local programs is adequate. You have worked with the State Department of Pollution Control to determine that the local programs do have all the necessary requirements to properly implement their programs in the same manner as the State. Accordingly, you believe that the requirements of

Page 2 - Mr. John Bottcher

40 C.F.R. 51.11(f) would be satisfied.

If this letter does not properly reflect your comments on this subject, would you please contact me as soon as possible. I appreciated your discussing the situation with me.

Sincerely,

G. William Frick, Attorney

. B. William Free -

Air Quality and Radiation Division

April 10, 1972 - 7 Air Plan - 4

Mr. Gene Welsh Environmental Protection Agency 50th Seventh Street, Northeast Atlanta, Georgia, 30323

Dear Gene:

On April 5, 1972, the Board of the Department of Pollution Control adopted standard procedures to test and evaluate air pollution sources in the State of Florida.

Consider this letter as official notification. The procedures adopted are the same state procedures outlined in Technical Hemorandum Number 5-2. These procedures are not the Environmental Protection Agency's procedures, but we do feel they are more restrictive.

It will be the intent of the staff of this Department to continually review these procedures, as well as the Environmental Protection Agency's methods, and modify the adopted procedures if technology and data warrants it.

Sincerely,

C. G. Mauriello, Director Division of Operations

CGM/pm

cc: David H. Scott
Regional Engineers
Local Programs
Bureau Chiefs



GEORGIA DEPARTMENT OF PUBLIC HEALTH

47 TRINITY AVENUE SW

ATLANTA, GEORGIA 30334

John H. Venable, M.D., Director

Elton S. Osborne, Jr., M.D., Deputy Director

May 4, 1972

Mr. Vincent D. Patton
Executive Director
Department of Pollution Control
Suite 300
Tallahassee Bank Building
315 South Calhoun Street
Tallahassee, Florida 32304



Dear Mr. Patton:

I wish to extend to you a committment to furnish any and all cooperation and information which may be useful to your air quality control program. This shall apply to all areas under your jurisdiction which may be affected by conditions within the State of Georgia, either interstate or intrastate Air Quality Control Regions.

We propose to furnish you any information relating to construction of new plants or expansion of plants which will increase emissions to the atmosphere and possibly affect air quality in your state. Additionally, we will furnish you any updated emission inventories, air quality data, stack sampling information and emergency episode plans for specific sources as you may request or have the need for. We will refer complaints to your attention dealing with sources within your state which seem to be affecting Georgia, and pledge to you that we will act on such complaints referred to this office which affect air quality in the area under your jurisdiction.

In the past, we have had an excellent working relationship and have been able to exchange data on air quality measurements, emission inventory, sampling and other information which was mutually beneficial to us. We appreciate the fine relationship which exists between Georgia and Florida and feel that this cooperation will increase, and improve air quality in both our states in the ensuing years.

Sincerely,

Robert H. Collom, Jr., Chief Air Quality Control Segtion

Robert H. Collon

Division of Environmental Protection

Department of Natural Resources

RHC:1b

Air & Water Pollution Control Commission

COMMISSIONERS

JAMES W. CARRAWAY, CHAIRMAN

STATE PLANT BOARD OF T. GUICE, JR., VICE CHAIRMAN

OL & GAS BOARD

POARD OF HEALTH

MARINE CONSERVATION COMMISSION W. J. DEMORAN

W. E. GUPTON JACKSON

PERM TA JONES CANTON STATE OF MISSISSIPPI



Glen Wood, Jr.
EXECUTIVE DIRECTOR

POST OFFICE BOX 827

TELEPHONE 354-6783

SIXTH FLOOR ROBERT E. LEE BUILDING JACKSON, MISSISSIPPI 39205

May 12, 1972

COMMISSIONERS

GAME & FISH-COMMISSION BILLY JOE CROSS

BOARD OF WATER COMMISSIONERS JACK PEPPER

CHARLES W. ELSE YAZOO CITY

ASSOCIATE MEMBERS

STATE PARK SYSTEM DR. JOHN M. KING

A & I BOARD PAUL BURT

GEOLOGICAL SURVEY W. H. MOORE

Mr. Vincent D. Patton, Executive Director Department of Pollution Control Suite 300 Tallahassee Bank Building 315 S.Calhoun Street Tallahassee, Florida 32304

Dear Mr. Patton:

With respect to any interstate, or intrastate, air quality control region or portion, thereof, involving the States of Florida and Mississippi, this agency proposes to exchange available emission data as needed and requested should it become necessary for any program involving the achievement and/or maintenance of a national standard, or during emergencies.

ry truly yours,

Jáck H. Curry, Chie

Division of Air Pollution

JHC: ks

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STATE OF FLORIDA

OFFICE OF GOVERNOR REUBIN O'D. ASKEW

January 27, 1972

Mr. William D. Ruckelshaus, Administrator Environmental Protection Agency 1626 K Street, Northwest Washington, D. C. 20460

Attention: Mr. Gene B. Welsh

Dear Mr. Ruckelshaus:

Pursuant to Section 110 of the Clean Air Act, the Air Implementation Plan for the State of Florida is hereby forwarded for your evaluation and approval.

The plan was adopted by the Board of the Florida Department of Pollution Control on January 11, 1972, in compliance with Requirements for Preparation, Adoption, and Submittal of Implementation Plans, Volume 36, Number 158, Federal Register, and applicable state law, Chapter 403, Florida Statutes.

Florida has adopted ambient air standards equal to or more stringent than National Secondary Ambient Air Standards and Levels of Source Emission Limitations adequate to meet those ambient air requirements. In addition, the implementation, enforcement and maintenance of the standard is included in the plan which I believe will form the basis for an effective vigorous air program for Florida.

The deadline for meeting the source emission limitations, which will result in compliance with the ambient air standards, is July 1, 1975, with one exception. The exception is the nitrogen oxide ambient air standard for the two priority one regions, the Southeast and the West Central. Predictions of source control effectiveness and attainable schedules of control of nitrogen oxides indicate additional time will be required to meet the ambient standards in the two regions. Pursuant to paragraph 420.30, Volume 36, Number 158, Federal Register, we are attaching our application for an extension of time relative to the two subject regions.

Mr. William D. Ruckelshaus January 27, 1972 Page 2

We believe that this plan will produce ambient air conditions of excellent quality within the State of Florida and will support and enhance attainment of the similar air quality for Florida's neighboring states and the nation. Your favorable consideration of both the plan and the request for extension is sincerely solicited.

4/10

Governor

ROA/fps

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Enclosures

cc: Mr. William D. Ruckelshaus

Mr. Jack Ravan

Mr. David H. Levin

Mr. Vincent D. Patton



STATE OF FLORIDA

DEPARTMENT OF POLLUTION CONTROL

Suite 300, tallahassee bank building 315 South Calhoun Street, tallahassee, florida 32301

VINCENT D. PATTON EXECUTIVE DIRECTOR DAVID H. LEVIN

January 25, 1972

Honorable Reubin O'D. Askew Governor of Florida The Capitol Tallahassee, Florida 32304

Dear Governor Askew:

The enclosed Air Implementation Plan for the State of Florida is respectfully submitted for your approval and submission to Mr. William D. Ruckelshaus, Administrator, Environmental Protection Agency. This plan was adopted pursuant to Section 110 of the Clean Air Act which requires submission by January 30, 1972.

Adoption of this plan by the Board of the Florida Department of Pollution Control on January 11, 1972, is in compliance with applicable federal and state laws and rules, specifically the Clean Air Act and rules promulgated in the Federal Register and Chapter 403, Florida Statutes.

Florida's plan included adoption of a new chapter of rules for the Department of Pollution Control, Chapter 17-2, Florida Administrative Code, Air Pollution, which was filed with the Secretary of State on January 14, 1972. Contents of the rule includes the setting of ambient air standards, source emission limiting standards and criteria, and action to be taken for prevention of air pollution episodes.

The Board has adopted the National Secondary Ambient Air Standards which will result in cleaner air than the National Primary Ambient Air Standards, which are the minimum requirement. The plan and rule provide for the implementation, enforcement, and maintenance of a program which will result in clean air for Florida. We believe the plan

Honorable Reubin O'D. Askew January 25, 1972 Page 2

is a well conceived, sound program for the State to pursue to obtain the goal--clean air. We respectfully urge submittal of the plan by January 30, 1972.

Sincerely yours

David H. Levin Chairman

DHL:pgh

TABLE OF CONTENTS

| Letter of Transi | nittal | (i) |
|------------------|--|---|
| Table of Conten | ts | (iii) |
| Application for | Two Year Extension | 1 |
| Public Hearing | | 2 |
| Revisions | | 7 |
| Reports | | 8 |
| Responsibility | | 9 |
| SECTION I: | Introduction Background Climatography | 10 24 |
| SECTION II: | Legal Authority Control Strategy - General Emission Inventory Region Priority Classification Example Region - Particulate Control Strategy Sulfur Dioxide Control Strategy Control Strategy - Carbon Monoxide, Photochemical Oxidants and Nitrogen Dioxide | 29 43 46 74 110 131 145 |
| SECTION III: | Rules and Regulations | 160 |
| SECTION IV: | Compliance Schedule and Review of New Sources and Modifications | 196 |
| SECTION V. | Air Quality Surveillance | 205 |

| SECTION | VI: | Source Surveillance | 234 |
|---------|-------|--|------------|
| SECTION | VII: | Resources | 236 |
| SECTION | VIII: | Intergovernmental Cooperation | 257 |
| SECTION | IX: | Emergency Action Plans Communication Manual | 274 285 |

Appendices:

Section A - Air Quality Surveillance - Summer Study

Section B - Chapter 403, 17-4, 17-5 and Permit

Section C - Emission Inventory Summary



Office of the Governor

THE CAPITOL
TALLAHASSEE 32304

APPLICATION BY THE GOVERNOR OF FLORIDA

FOR TWO YEAR EXTENSION

Whereas the West Central (Tampa) and the Southeast (Miami) Intrastate Air Quality Control Regions were classified as Priority I Regions on Nitrogen Oxides and

Whereas the bulk of the nitrogen oxides emissions are contributed from mobile sources in these Regions, and

Whereas the degree of nitrogen oxides emission reduction necessary for the attainment and maintenance of the standard for nitrogen dioxide is greater than that which can be achieved by the application of the Federal Motor Vehicle Emission Standards promulgated under Section 202 of the Federal Clean Air Act, and

Whereas the reasonably available control technology applied to stationary sources of nitrogen dioxide is not sufficient to achieve the air quality standard, and

Whereas the institution of transportation control measures and development of mass transportation system will take more than three years,

Therefore, I, Reubin O'D. Askew, Governor of the State of Florida, do hereby request an extension of two years beyond 1975 to meet the standards on nitrogen dioxide in the West Central and Southeast Regions.

Redbin O'D. Askew

Governor

PUBLIC HEARINGS

Under Section 403.051, Florida Statutes and as required by Section 42 CFR 420.4, the contents of this plan were presented before the public after giving notice in the newspapers listed in the following page and to those on Department's mailing list, at those places and on those dates as contained in such notice, a copy of which is attached.

The hearing was reconvened on January 11, 1972 in Tallahassee, at which time this plan was approved and adopted by the Board of the Florida Department of Pollution Control.

FOR THE BOARD

Vincent D. Patton Executive Director

VDP/wb

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Following is a list of newspapers, that notices were sent to, and date of publication.

News Editor
Panama City Herald
123-25 W. 5th Street
Panama City, Florida 32401
Notice Published: November 5, 1971

New Editor Today P.Q Box 1330 Cocoa, Florida 32922 Notice Published: November 6, 1971

News Editor St. Petersburg Times P.O. Box 1121 St. Petersburg, Florida 33731 Notice Published: November 4, 1971

Sarasota Herald-Tribune 801 South Tamiami Trail Sarasota, Florida 33578 Notice Published: November 4, 1971

New Editor Florida Times Union Jacksonville, Florida 32201 Notice Published: November 5, 1971

News Editor Orlando Sentinel 633 North Orange Avenue Orlando, Florida 32801 Notice Published: NOvember 5, 1971

News Editor Tampa Tribune 505 East Kennedy Boulevard Tampa, Florida 33602 Notice Published: November 5, 1971 Clearwater Sun
301 South Myrtle Street
Clearwater, Florida 33517

Tallahassee Democrat
227 North Magnolia Drive
Tallahassee, Florida 32302
Att: City Editor
Notice Published: November 6, 1971

News Editor Pompano Beach Sun-Sentinel 2501 N. Federal Highway Pompano Beach, Florida 33061 Notice Published: November 5, 1971

News Editor
Ft. Lauderdale News
101 North New River Drive, East
Ft. Lauderdale, Florida 33302
Notice Published: November 5, 1971

The Miami Herald City Room #1 Herald Plaza Miami, Florida 33101 Att: Mike Toner Notice Published: November 5, 1971

Hollywood Sun-Tatter 2028 Tyler Street Hollywood, Florida 33020 Notice Published: November 4, 1971



STATE OF FLORIDA

DEPARTMENT OF POLLUTION CONTROL

SUITE 300, TALLAHASSEE BANK BUILDING 315 SOUTH CALHOUN STREET, TALLAHASSEE, FLORIDA 32301

VINCENT D. PATTON EXECUTIVE DIRECTOR

November 2, 1971

DAVID H. LEVIN

NOTICE TO NEWSPAPERS

Under Section 403.051 (2), Florida Statutes, it is necessary to give thirty (30) days notice prior to the date and time of any hearing to be held for the purpose of modification of any rule or regulation. Hearings will be convened on December 6, 1971 in Fort Lauderdale, December 7, 1971 in Tampa, December 8, 1971 in Jacksonville and December 10, 1971 in Pensacola at 9:00 a.m., to hear evidence pertaining to the adoption of an Air Implementation Plan which will include the revision of Rule Chapter 17-2, Florida Administrative Code, to facilitate conformance with the requirements of the Federal Clean Air Act of 1970 for all air pollution sources.

Accordingly, we would appreciate your immediate publication of the attached Legal Notice and would appreciate thereafter, certification and affidavit of such publication to this office.

Please forward invoices of publication costs in triplicate to this office.

FOR THE BOARD

Vincent D. Patton

VDP/ms



STATE OF FLORIDA

DEPARTMENT OF POLLUTION CONTROL

SUITE 300, TALLAHASSEE BANK BUILDING 315 SOUTH CALHOUN STREET, TALLAHASSEE, FLORIDA 32301

VINCENT D. PATTON EXECUTIVE DIRECTOR

November 2, 1971

DAVID H. LEVIN

NOTICE

TO WHOM IT MAY CONCERN:

Pursuant to Section 403.051, Florida Statutes, the State of Florida Department of Pollution Control, will conduct public hearings on December 6, 7, 8 and 10, 1971, for the purpose of the hearing of evidence pertaining to:

1. The adoption of an Air Implementation Plan which will include the revision of Rule Chapter 17-2, Florida Administrative Code, to facilitate conformance with the requirements of the Federal Clean Air Act of 1970 for all air pollution sources. Compliance with this act will be required by mid 1975 for existing pollution sources.

The hearings will be convened at 9:00 a.m. of December 6, 1971, in the Broward County Courthouse, Room 250, 201 S. E. 6th Street, Fort Lauderdale; on December 7, 1971, in the Curtis Hixon Convention Hall, Ybor Room, 600 Ashley Street, Tampa; on December 8, 1971, in the Prudential Insurance Company Auditorium, Prudential Insurance Company, 841 Prudential Drive, Jacksonville; and on December 10, 1971, in the Escambia County Health Department Auditorium, 2251 North Palafox Avenue, Pensacola.

1. Principal portions of the proposed plan will be available to the public from any one of the following Regional Offices of the Florida Department of Pollution Control: Northwest Region, 1384 Shoreline Drive, Gulf Breeze, 32561, Tel. 904-932-5324; West Central Region, P. O. Box 944, Winter Haven, 33881, Tel. 813-294-3287; Southwest Region, 3201 Golf Course Boulevard, Punta Gorda, 33950, Tel. 813-639-4967; Northeast Region, 4441 Emerson Street, Jackson-ville, 32207, Tel. 904-396-6950; Central Region, 1017 N. Highland Avenue, Orlando, 32803, Tel. 305-425-4577; Southeast Region, Courthouse Square Building, Ft. Lauderdale, 33301, Tel. 305-524-5541.

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ALL PERSONS INTERESTED and desiring to appear and be heard will be given an opportunity to do so at that time.

STATE OF FLORIDA POLLUTION CONTROL BOARD

Vincent D. Patton Executive Director

VDP/ms

REVISIONS

In accordance with the 42 CFR 420.6 (Federal Register Volume 36, Number 158 dated August 14, 1971), this plan shall be revised from time to time, as may be necessary to take account of

- (1) Revision of National ambient air quality standards
- (2) The availability of improved or more expeditions methods of attaining these standards, and
- (3) A finding by the Administrator that the plan is substantially inadequate to attain or maintain these standards.

REPORTS

The Florida Department of Pollution Control, upon approval of this plan by the Administrator of EPA, will submit to the Administrator of EPA through Atlanta Regional office, quarterly reports on the air quality. These reports will be for the full quarters beginning January 1, April 1, July 1, and October 1.

The Florida Department of Pollution Control, upon approval of this plan by the Administrator of EPA, will submit to the Administrator of EPA through Atlanta Regional office, semiannual reports on progress in carrying out any and all portions of the applicable plan. Such reports will be for the full semiannual period beginning January 1 and July 1.

Both the quarterly and semiannual reports will be submitted within 45 days after the end of each reporting period and in a manner prescribed by the Administrator of EPA.

Individually negotiated compliance schedules for sources emitting more than 25 tons per year of any pollutant for which there is a national standard, will be submitted to EPA by the due date of the first semiannual report.

RESPONSIBILITY

The State of Florida Department of Pollution Control, created by Section 20.26, Florida Statutes, as amended by Chapter 71-137, Laws of Florida 1971, is charged with the duty of pollution control, prevention and abatement in accordance with the Florida Pollution Control Act, Chapter 403, Florida Statutes. Under this statutory authority, the Florida Department of Pollution Control will be primarily responsible for enforcing this Air Implementation Plan throughout the state.

Variances from applicable rules and regulations will not be granted which will interfere with the attainment of national standards as contained in this plan.

SECTION I

Background

The atmosphere of Florida has generally been considered clean. This does not mean that there are not pollution problems in the State. Florida is one of the fastest growing states in the country. In the last two decades, Florida has witnessed a tremendous population growth (Table I and Figure 1). The State has added approximately two million residents in each decade during 1950 - 60 and 1960 - 70.

This trend in population growth is expected to continue in the coming decades also. Most of the increase in the population during the past two decades was in urban centers. The population projections in the next 20 years show that, in addition to currently dense counties, a major portion of the current sparsely populated counties will witness growth at a much greater rate.

The industrial activity has also experienced an unprecedented growth in the State¹. Table II and Figure 2 give this information. As can be seen from this Table, in 1969, employment in manufacturing establishments rose to 329,100 workers. This was 6.0 percent higher than the previous year and 65.2 percent higher than in 1959.

TABLE I - Population Growth

| | | 1960 | | 1970 | |
|-------------------------------|--------------------|------------|-------------------|------------|-------------------|
| Air Quality Control Region | 1950 Population | Population | Percent Growth | Population | Percent Growth |
| | | | | , | |
| Northeast | 697,178 | 931,518 | 33.6 | 1,114,196 | 19.6 |
| Northwest | 295,274 | 422,918 | 43.2 | 496,959 | 17.5 |
| West Central | 633,147 | 1,128,621 | 78.3 | 1,491,570 | 32.2 |
| Central | 287,459 | 631,653 | 119.7 | 922,068 | 46.0 |
| Southeast | 766,870 | 1,632,979 | 112.9 | 2,415,327 | 47.9 |
| ☐ Southwest | 94,151 | 203,871 | 116.5 | 349,323 | 71.3 |
| Total | 2,774,079 | 4,951,560 | 78.5 | 6,789,443 | 37.1 |
| Increase in Population | | 2,177,481 | | 1,837,883 | |

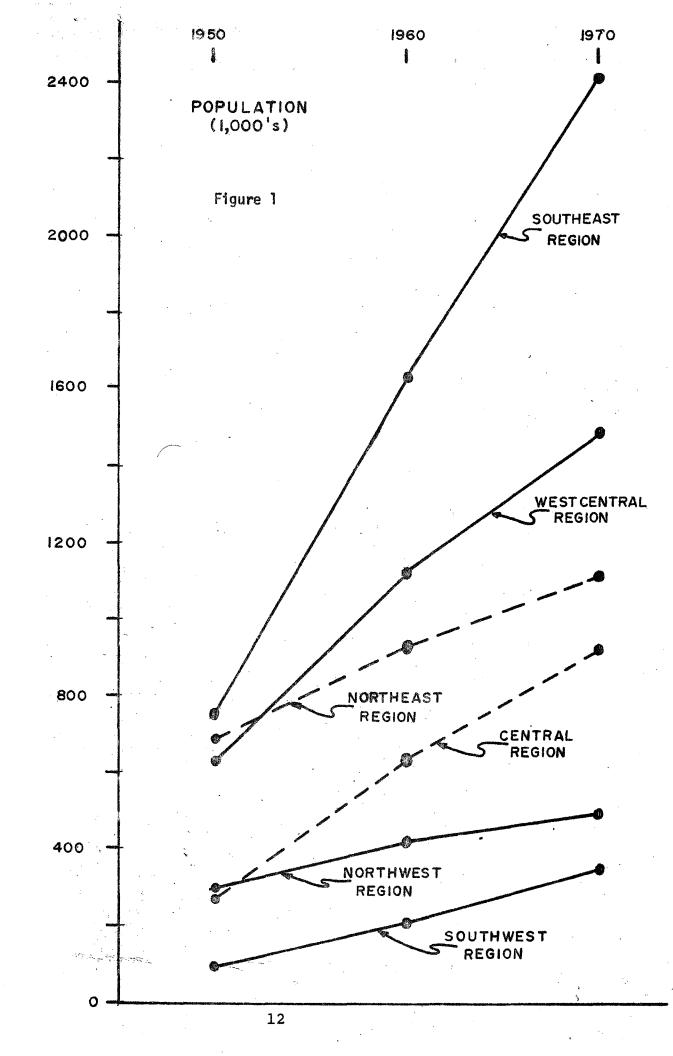


TABLE II

TOTAL NONAGRICULTURAL EMPLOYMENT IN MANUFACTURING,

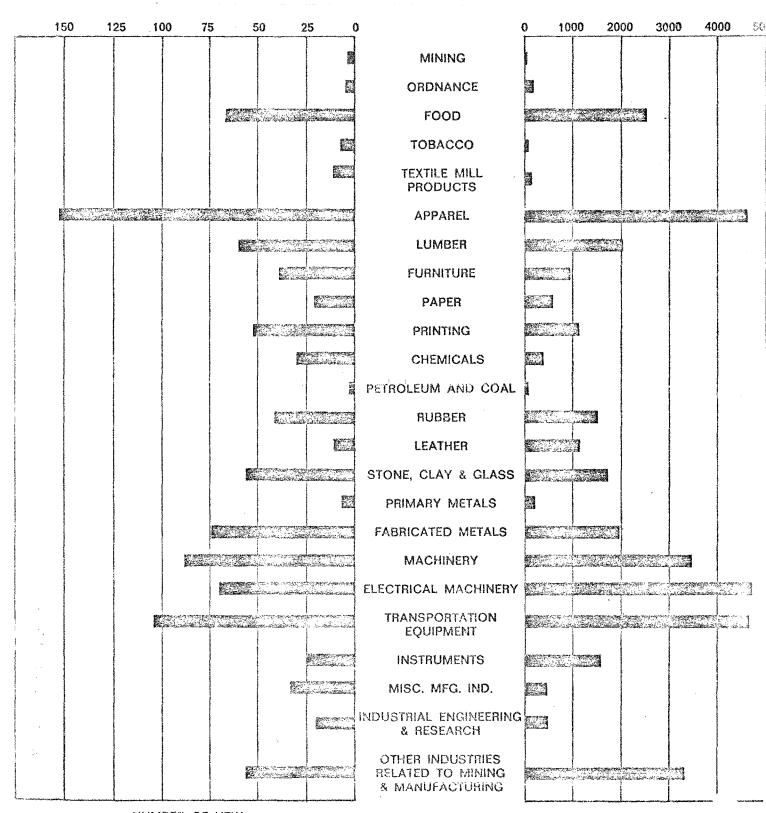
FLORIDA AND THE UNITED STATES

| | | Florida | | | United States | | والمستورة والمائية والمستورة والمستو | م ساده الله المستقدمة الله المستقدمة المستقدمة المستقدمة المستقدمة المستقدمة المستقدمة المستقدمة المستقدمة الم المستقدمة المستقدمة |
|----|--|--|----------------------|-------------|--|-------------------------|--|--|
| 13 | Year | Total Nonagricultural Employment | Employment facturing | in Manu- | Total Nonagricultural Employment | Employment Manufactı | | |
| | The second property and the States on the property are a contract of the States of the property states of the second property and the States of the second property states of the second p | The state of the s | Number % | of Total | | Number % o | of Total | and the second s |
| | 1959 | 1,273,000 | 199,200 | 15.6 | 53,313,000 | 16,675,000 | 31.3 | |
| | 1969 | 2,078,600 | 329,100 | 15.8 | 70,141,000 | 20,121,000 | 28.7 | |
| | % Growth | 63.3 | 65.2 | andro paine | 31.6 | 20.7 | water angles | |

(from Reference 1)

Figure 2 (from Reference 1)

FLORIDA'S NEW INDUSTRIAL PLANTS AND EXPECTED EMPLOYMENT, 1969, BY INDUSTRY



NUMBER OF NEW PLANTS AND MAJOR EXPANSIONS BASED ON DATA IN TABLE 3 The main thrust of pollution burden assessment has been placed on automobiles and industries. The automobile population is directly relatable to population of the State and the automobile population is increasing at a steady rate of 6-8 percent per year in the State as evidenced from Table III and Table IV.

TABLE III - Motor Vehicle Registration Data-Statewide

| Year | Number Registered | <pre>% Increase over previous year</pre> |
|------|-------------------|--|
| 1966 | 3,695,502 | 6.80 |
| 1967 | 3,973,178 | 7.52 |
| 1968 | 4,238,928 | 6.69 |
| 1969 | 4,590,259 | 8.29 |

TABLE IV - Selected Counties Motor Vehicle Registration Data

| Duval: | | |
|--------|---------|-------|
| 1966 | 273,442 | stee. |
| 1967 | 291,040 | 6.44 |
| 1968 | 303,292 | 4.21 |
| 1969 | 322,913 | 6.47 |
| Dade: | | |
| 1966 | 633,927 | |
| 1967 | 676,544 | 6.72 |
| 1968 | 738,079 | 8.50 |
| 1969 | 796,455 | 8.50 |

TABLE IV - Cont'd.

| Broward | | |
|--------------|---------|-------|
| 1966 | 313,229 | *** |
| 1967 | 353,150 | 12.74 |
| 1968 | 391,756 | 10.93 |
| 1969 | 444,339 | 13.42 |
| Hillsborough | | |
| 1966 | 278,597 | auso. |
| 1967 | 294,924 | 5.86 |
| 1968 | 307,965 | 6.14 |
| 1969 | 324,271 | 5.29 |
| Pinellas | | |
| 1966 | 291,021 | cham- |
| 1967 | 310,512 | 6.69 |
| 1968 | 322,446 | 3.84 |
| 1969 | 362,546 | 12.44 |

Even though Florida is not generally considered an industrial state, the climatological conditions and other resources available in the State are conducive to potential industrial growth in the future particularly in the "light industry" category. Present predominant manufacturing groups are somewhat diversified such as food products, wood products, chemicals, textiles, phosphate, hardware (electrical machinery, transportation equipment etc) and mineral products.

Florida has five major industrial categories that constitute the bulk of actual and potential air pollution problems. They are:

- . electrical power generation
- . phosphate fertilizer manufacturing
- . pulp and paper production
- . citrus and cattle feed processing
- . sugar harvesting and processing

Figure 3 shows the location of all these major industries in the State. As can be seen, if we consider all these industries together, these industries are located throughout the State. If we consider them by individual categories, except for power generating facilities, these industries are located in separate areas of the State (Figures 4-8). Sugar industry is located in South Florida, phosphate and citrus industries in Central and pulp and paper industries are located in North Florida.

The major sources of pollution and their pollutant contribution are as follows:

Power Industry - Particulates, sulfur dioxide, nitrogen oxides, carbon monoxide

Pulp and Paper Industry - Particulates, odors, hydrogen sulfide, mercaptans, etc.

Citrus Industry - Particulate and odors

Phosphate Industry - Particulates, sulfur dioxide, fluorides, ammonia and phosphorous pentoxide

Sugar Industry - Particulates

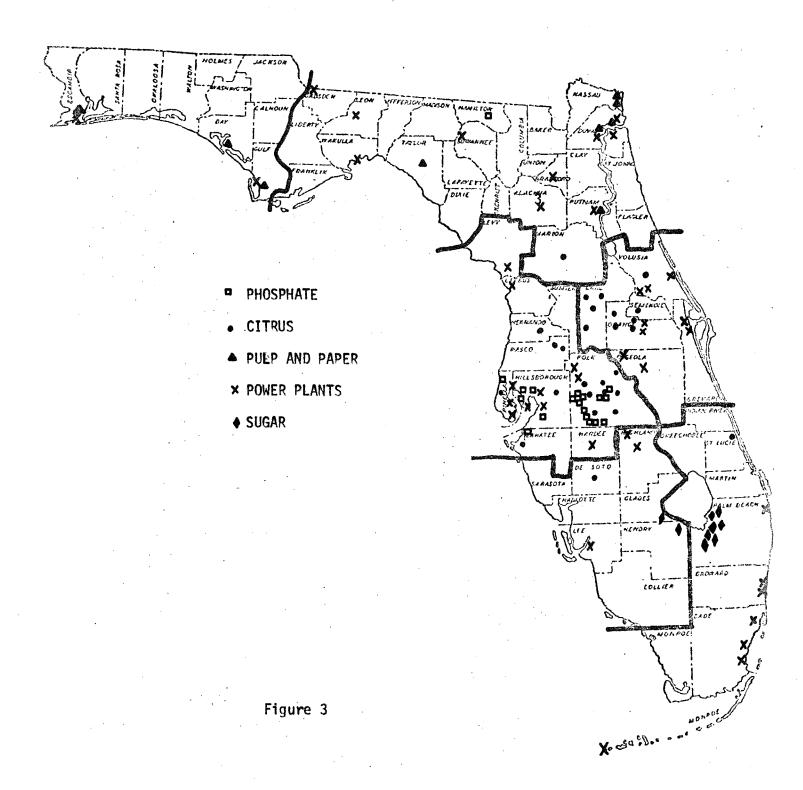
Mineral Industry - Particulates

Solid Waste Disposal - Particulates

Wood Processing Industry - Particulates, odors

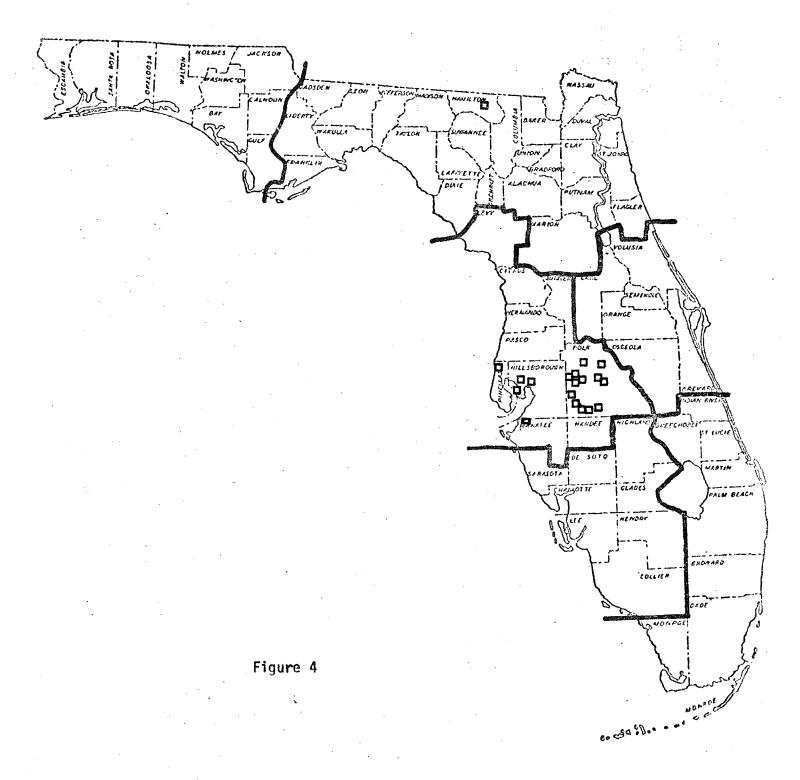
Automobiles and Aircraft - Hydrocarbons, carbon monoxide, nitrogen oxides, particulates

MAJOR POINT SOURCES

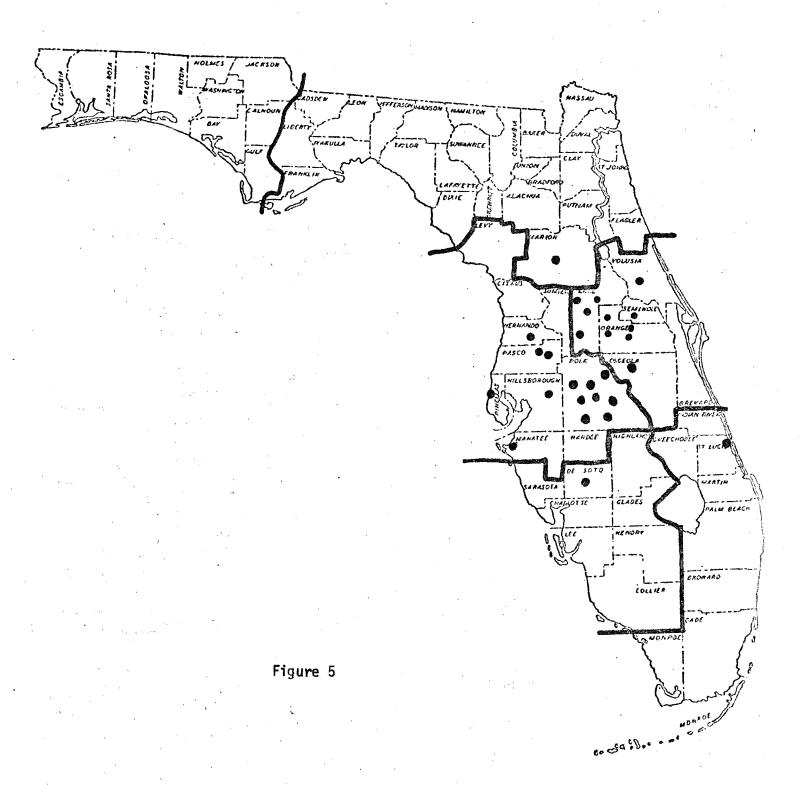


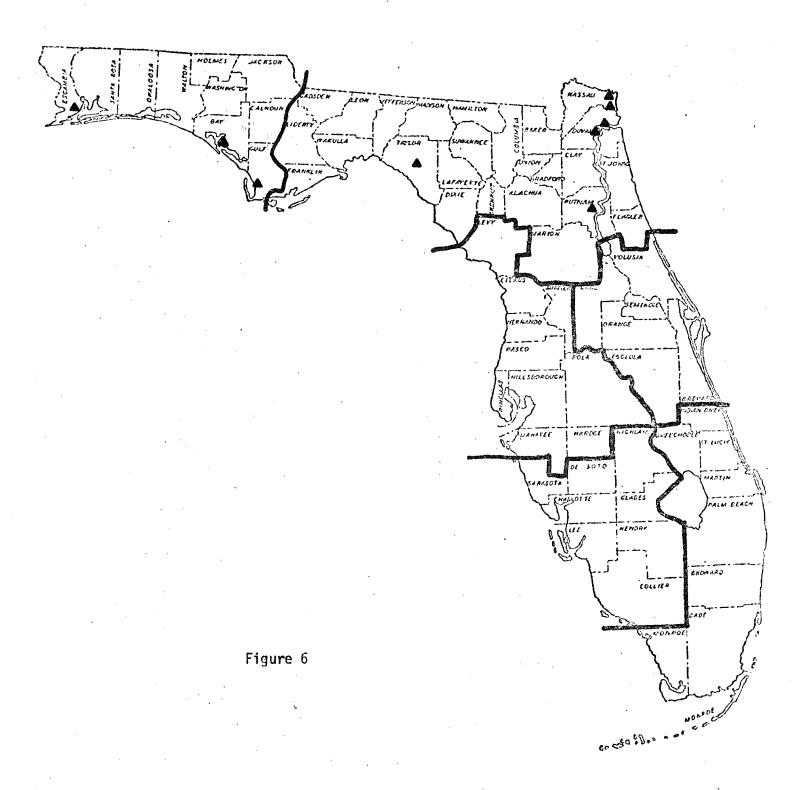
PHOSPHATE INDUSTRY

POINT SOURCES

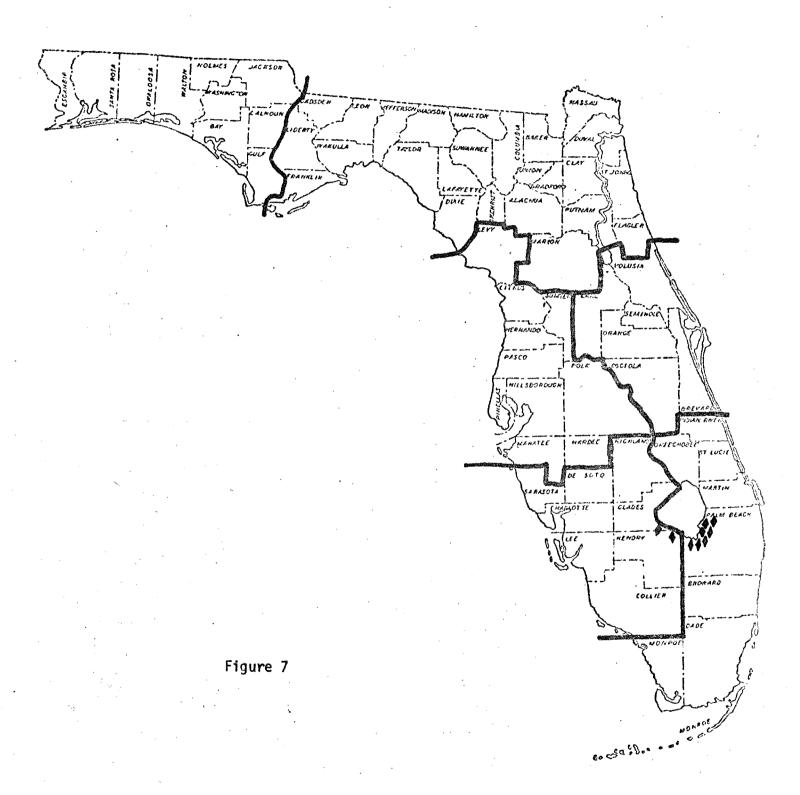


POINT SOURCES

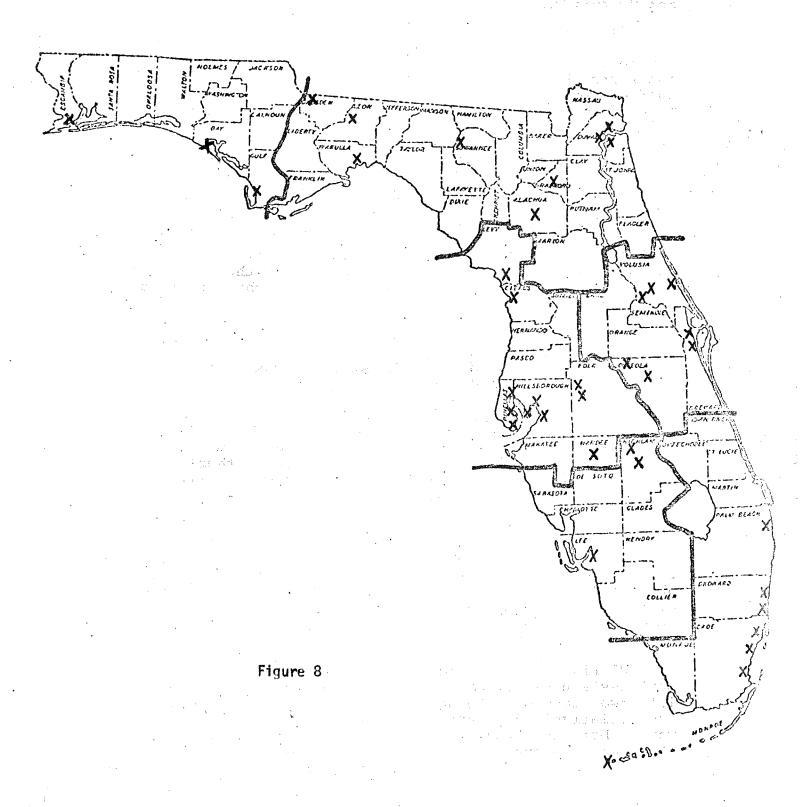




POINT SOURCES



POWER PLANTS POINT SOURCES



Climatography²

Florida, situated between latitudes 25° and 31° N., is largely a lowland peninsula comprising about 54,300 square miles of land area and is surrounded, except on the north, by the waters of the Atlantic Ocean and the Gulf of Mexico. No point in the State is more than 70 miles from salt water and the highest natural land is only 345 feet above sea level. Coastal areas are low and flat. The elevation of most of the interior ranges from 50 to 100 feet above sea level, though gentle hills in the interior of the peninsula and across the northern and western sections rise above 200 feet.

The climate is probably Florida's greatest natural resource. General climatic conditions range from a zone of transition between temperate and sub-tropical conditions in the extreme northern interior to the tropical conditions found on the Florida Keys. The chief factors of climatic control are:

. Latitude

and the same of the same of the

- . Proximity to the Atlantic Ocean and Gulf of Mexico
- . Numerous inland lakes

Summers throughout the State are long, warm and relatively humid; winters are mild due to southerly latitude and relatively warm adjacent sea waters with periodic invasions of cool to occasionally cold air from the north.

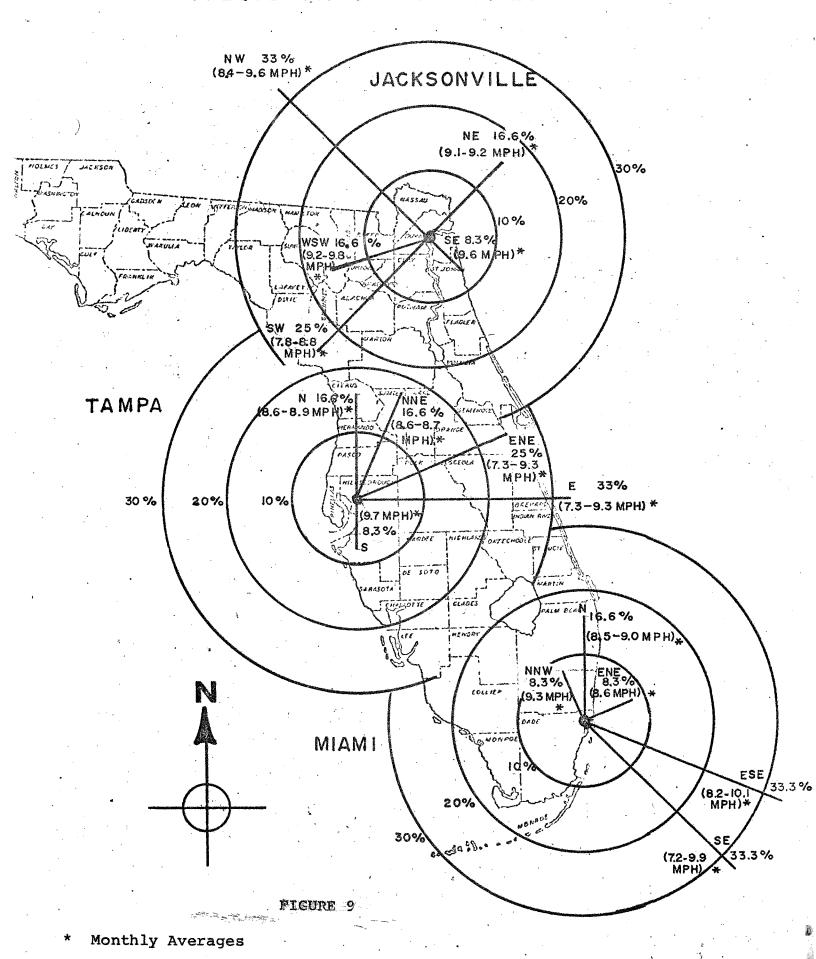
Mean annual temperatures range from the upper 60's in the northern sections to the middle 70's on the southern mainland. Average summertime temperatures are about the same throughout the State, 81° to 82°F and the average minimum temperatures during the coolest months range from the middle 40's in the north to the middle 50's in the south.

Florida enjoys abundant rainfall. Except for the northwestern sections, the average year can be divided into two seasons - the so called "rainy season" and a long relatively dry season. Rainfall in Florida is quite varied both in annual amount and in seasonal distribution. The average annual rainfall ranges from 50 to 65 inches.

Prevailing winds over the southern peninsula are southeast and east. Over the remainder of the State, wind directions are influenced locally by convectional forces inland and the "land and sea breeze effect" near the coast. Consequently prevailing directions are somewhat erratic but, in general, follow a pattern of northerly in the winter and southerly in the summer. Figure 9 shows the annual wind roses for selected cities.

Because of the general pattern of terrain and the Trade Wind circulation, meteorological conditions that aggravate air pollution do not often occur at any place in Florida. Such instances are practically nil except the panhandle section of Florida (Figure 10). The air over the State is usually sufficiently unstable-a condition conducive to the development of cumulous clouds and thunderstorms to disperse pollutants to higher levels.

FREQUENCY OF WIND DIRECTION



FORECAST HIGH AIR POLLUTION POTENTIAL DAYS

75 EPISODES EAST 39 EPISODES WEST 1 AUG. 1960 - 3 APRIL 1970 1 OCT. 1963 - 3 APRIL 1970 Figure 10

References

- 1. 1969 Florida's New Industrial Plants,
 State of Florida, Department of Commerce (1970).
- Climates of the States Florida,Climatography of the United States No. 60-8U. S. Department of Commerce (1967).

Section II

Plan Content and Requirements

In compliance with the requirements of the Federal Clean Air Act of 1970 and Federal Register Volume 36, Number 68, dated August 14, 1971 (Requirements for Preparation, Adoption and Submittal of Implementation Plans), each plan must contain adequate information on some important elements. A partial list of such important elements is:

- * Legal Authority
- * Control Strategy: General
- * Control Strategy: Sulfur oxides and particulate

matter

* Control Strategy: Carbon Monoxide, hydrocarbons,

photochemical oxidants and

nitrogen dioxide

- * Rules and Regulations
- * Compliance Schedule
- * Air quality surveillance
- * Source Surveillance
- * Resources
- * Intergovernmental cooperation
- * Prevention of air pollution emergencies

Legal Authority:

Chapter 403, Florida Statutes, passed by the State Legislature in 1967 is the foundation of the entire pollution control program of the State of Florida. The conception and passage of Chapter 403 (copy enclosed in Appendix B) provides all the necessary legal authority to the Department of Pollution Control to carry out an effective pollution control and abatement program.

In the way of reviewing adequacy of a state's legal authority, the Environmental Protection Agency lists some fifteen (15) essential provisions. For the purpose of easy reference and interpretation, each of these fifteen essential provisions is listed below followed by appropriate sections of Chapter 403 which meets this provision.

Essential Provisions

- 1. Broad policy or definition of air pollution consistent with the Clean Air Act, as amended to protect and enhance air quality.
 - 403.021 Legislative declaration; public policy.
 (1) The pollution of the air and waters of this state constitutes a menace to public health and welfare, creates public nuisances, is harmful to wildlife, fish and other aquatic life, and impairs domestic, agricultural, industrial, recreational, and other beneficial uses of air and water.
 - (2) It is declared to be the public policy of this state to conserve the waters of the state and to protect, maintain, and improve the quality thereof for public water supplies, for the propagation of wildlife, fish and other aquatic life, and for domestic, agricultural, industrial, recreational, and other beneficial uses, and to provide that no wastes be discharged into any waters of the state without first being given the degree of treatment necessary to protect the beneficial uses of such water.
 - (3) It is declared to be the public policy of this state and the purpose of this act to achieve and maintain such levels of air quality as will protect human health and safety, and to the greatest degree practicable, prevent injury to plant and animal life and property, foster the comfort and convenience of the people, promote the economic and social development of this state and facilitate the enjoyment of the natural attractions of this state.
 - (4) It is declared that local and regional air and water pollution control programs are to be supported to the extent practicable as

essential instruments to provide for a coordinated statewide program of air and water pollution prevention, abatement and control for the securing and maintenance of appropriate levels of air and water quality.

(5) It is hereby declared that the prevention, abatement and control of the pollution of the air and waters of this state are affected with a public interest, and the provisions of this act are enacted in the exercise of the police powers of this state for the purpose of protecting the health, peace, and safety, and general welfare of the people of this state.

403.031

- (3) "Pollution" is the presence in the outdoor atmosphere or waters of the state of any one or more substances, contaminants, or noise in quantities which are or may be potentially harmful or injurious to human health or welfare, animal or plant life, or property, or unreasonably interfere with the enjoyment of life or property, including outdoor recreation.
- 2. Authority to adopt rules and regulations including emission limitation on all sources.
 - 403.061 Department; powers and duties.
 The department shall have the power and the duty to control and prohibit pollution of air and water in accordance with the law and rules and regulations adopted and promulgated by it, and for this purpose to:
 - (1) Approve and promulgate current and long-range plans developed to provide for air and water quality control and pollution abatement.
 - (7) Adopt, modify and repeal rules and regulations to carry out the intent and purposes of this act. Any rules or regulations adopted pursuant to this act shall be consistent with provisions of federal law, if any relating to control of emissions from motor vehicles.

- (8) Hold hearings relating to the adoption of rules to control or prohibit air and water pollution, including hearings upon complaints for violations.
- (13) Establish ambient air quality and water quality standards for the state as a whole or for any part thereof, and also standards for the abatement of excessive and unnecessary noise and in cooperation with the Department of Transportation establish the maximum decibels of sound permissible from motor vehicles and trucks operating on the highways of Florida.
- (26) Perform any other act necessary to control and promote air and water pollution, and to delegate any of its responsibilities, authority and powers, other than rule-making powers, to any state agency now or hereinafter established.
- 3. Authority to require information relevant to air pollution control including authority to require periodic reports of emission information.
 - 403.06l Department; powers and duties
 The department shall have the power and the
 duty to control and prohibit pollution of
 air and water in accordance with the law
 and rules and regulations adopted and
 promulgated by it, and for this purpose to:
 - (15) Require persons engaged in operations which may result in pollution, to file reports which may contain information relating to locations, size of outlet, height of outlet, rate and period of emission and composition and concentration of effluent and such other information as the department shall prescribe to be filed relative to pollution.
 - 403.101 Classification and reporting.

 (1) The department, by rule or regulations, may classify air and water contaminant sources, which in its judgment may cause or contribute to air or water pollution,

according to levels and types of emissions and other characteristics which relate to air or water pollution, and may require reporting for any such class or classes. Classifications made pursuant to this section may be for application to the state as a whole or to any designated area of the state, and shall be made with special reference to effects on health, economic, social and recreational factors, and physical effects on property.

(2) Any person operating or responsible for the operation of air or water contaminant sources of any class for which the rules and regulations of the department require reporting shall make reports containing information as may be required concerning location, size and height of contaminant outlets, processes employed, fuels used and the nature and time period or duration of emissions, and such other information as is relevant to air and water pollution and available or reasonably capable of being assembled.

403.111 Confidential Records.

Any information relating to secret processes, methods of manufacture or production which may be required, ascertained or discovered by inspection or investigation, shall not be disclosed in public hearings and shall be kept confidential by any member, officer or employee of the department. Provided that nothing herein shall be construed to prevent the use of such records in judicial proceedings in connection with the prosecution of violations of this act, when ordered to be produced by appropriate subpoena or by order of the court. No such subpoena or order of the court shall abridge or alter the rights or remedies of persons affected in the protection of trade secrets or secret processes, in the manner provided by law, and such persons affected may take any and all steps available by law to protect such trade secrets or processes.

4. Authority to provide that emission reports be available for public inspection.

119.01 Public records open to examination by citizens

All state, county and municipal records shall at all times be open for a personal inspection of any citizen of Florida, and those in charge of such records shall not refuse this privilege to any citizen.

119.011 Definitions

- (1) "Public Records" shall mean all documents, papers, letters, maps, books, tapes, photographs, films, sound recordings or other material, regardless of physical form or characteristics, made or received pursuant to law or ordinance or in connection with the transaction of official business by any agency.
- (2) "Agency" shall mean any state, county or municipal officer, department, division, board, bureau, commission or other separate unit of government created or established by law.
- 5. Authority to require installation of equipment by owner or operator of stationary sources to monitor emissions and to conduct source tests.

The Department can order the installation of air sampling equipment and can require them by rule.

403.061

(7) Adopt, modify and repeal rules and regulations to carry out the intent and purposes of this act. Any rules or regulations adopted pursuant to this act shall be consistent with provisions of federal law, if any, relating to control of emissions from motor vehicles.

403.061

(10) Issue such orders as may be necessary to effectuate the control of air and water pollution and enforce the same by all

appropriate administrative and judicial proceedings.

6. Authority to prevent construction or modification of new sources including prior review of location and compliance with appropriate rules and regulations. (Basically a permit to construct system).

403.061

- (18) Require that notice be given to it prior to the undertaking of the construction or installation or expansion of any new air or water contaminant sources. Within thirty days of its receipt of such notice, the department shall require, as a condition precedent to the construction or installation or expansion of such sources, the submission of plans, specifications, and such other information as it deems necessary in order to determine whether the proposed construction or installation will be in accord with applicable laws, rules and regulations. If within sixty days of the receipt of plans, specifications or other information required pursuant to this chapter, the department determines that the proposed construction or installation will not be in accord with the requirements of this act or applicable rules and regulations, it shall issue an order prohibiting the construction or installation. Failure of such an order to issue within the time prescribed herein shall be deemed a determination that the construction or installation may proceed; provided, that it is in accordance with plans, specifications or other information, if any, required to be submitted.
- 7. Authority to inspect emission sources.

403.091 Inspections.

Any duly authorized representative of the department may enter and inspect any property, premises or place, except a building which is used exclusively for a

private residence, on or at which an air or water contaminant source is located or is being constructed or installed at any reasonable time for the purpose of ascertaining the state of compliance with the law, or rules and regulations of the department. No person shall refuse immediate entry or access to any authorized representative of the department who requests entry for purposes of inspection, and who presents appropriate credentials; nor shall any person obstruct, hamper or interfere with any such inspection. If requested, the owner or operator of the premises shall receive a report setting forth all facts found which relate to compliance status.

- 8. Authority to test emission sources. Covered in items 5 and 7 above.
- 9. Authority to issue appropriate orders to compel compliance with regulations.
 - 403.121 Enforcement; procedure. (1) If the department has reason to believe a violation of any provision of this act has occurred, it shall cause written notice to be served upon the alleged violator or violators. notice shall specify the provision of the law, rule or regulation alleged to be violated, and the facts alleged to constitute a violation thereof, and may include an order that corrective action be taken within a reasonable time. No such order shall become effective except after reasonable notice and the order is served upon the person or persons named therein and a hearing held if requested within the time specified in the notice; except that injunctive relief may be sought as provided under Section 403.131.
 - (2) If, after hearing, the department finds that a violation or violations have occurred, it shall affirm or modify

its order previously issued, or issue an appropriate order or orders for the prevention, abatement or control of the emissions or pollution involved or for the taking of such other corrective action as may be appropriate. Any order issued prior to a hearing as a part of a notice provided in subsection (1) of this section, or any order issued after a hearing may prescribe the date by which the violation shall cease by fixing reasonable timetables for necessary action to prevent, abate or control the pollution. If after hearing on an order contained in a notice, the department finds that no violation is occurring, it shall rescind the order.

10. Provision for adequate civil or criminal penalties.

403.161 Prohibition, violation, penalty, intent

- (1) It is unlawful for any person:
- (a) To cause the pollution of any of the air or waters of this state in violation of any rules or regulations adopted by the department pursuant to this chapter; or
- (b) To violate or fail to comply with any order of the department, including orders or rules fixing standards of air or water quality, or permits issued pursuant to its authority.
- (2) Violation is punishable by a civil penalty of not more than \$5,000 for the first offense and of not more than \$5,000 for each offense thereafter. Each day during any portion of which such violation occurs constitutes a separate offense. Failure of any offender to apy any fine imposed under this section within a time set by the court when imposing said fine shall be evidence of an intent to continue to violate orders of the department and shall enable the court to enter an order for the offender to cease from doing business or carrying on operations within the state.

- (3) It is the legislative intent that the civil and criminal penalties and fines imposed by the court be of such amount as to insure immediate and continued compliance with this act and rules or regulations pursuant thereto.
- 11. Provision for injunctive relief in the event other legal remedies fail to abate violations.
- 12. Authority to implement emergency action comparable to section 303 of the Clean Air Act, as amended.
 - Injunctive relief; emergency procedure If preventive or corrective measures are not taken in accordance with any order of the department, if the department finds that a generalized condition of air or water pollution exists and that it creates an emergency requiring immediate action to protect human health or safety, or if the department finds that a generalized condition of air or water pollution exists and that it creates an emergency requiring immediate action to prevent harm to property or to animal, plant, or aquatic life, the department shall institute proceedings in a court of competent jurisdiction for injunctive relief to enforce this chapter or rules, regulations, or orders adopted pursuant hereto. Such injunctive relief may include both temporary and permanent injunctions.
- 13. Authority (to the extent necessary to achieve and maintain National air quality standards) to adopt land use and transportation control.

403.061

(11) Adopt a comprehensive program for the prevention, control, and abatement of pollution of the air and waters of the state, and from time to time review and modify such program as necessary.

14. Authority (to the extent necessary and practicable) for periodic inspection and testing of motor vehicles to enforce compliance with applicable emission standards.

403.061

- (22) Make a continuing study of the effects of the emission of air contaminants from motor vehicles on the quality of the outdoor atmosphere of this state and the several parts thereof, and make recommendations to appropriate public and private bodies with respect thereto.
- 15. Authority as appropriate to regulate and coordinate local programs that are included in implementation plans.
 - 403.182 Local pollution control programs
 (1) Each county and municipality or any combination thereof may establish and administer a local pollution control program if it complies with this act.
 Local pollution control programs in existence on the effective date of this act shall not be ousted of jurisdiction if such local program complies with this act. All local pollution control programs, whether established before or after the effective date of this act, must:
 - (a) Be approved by the department as adequate to meet the requirements of this act and any applicable rules and regulations pursuant thereto.
 - (b) Provide by ordinance, regulation, or local law for requirements compatible with, or stricter or more extensive than those imposed by this act and regulations issued thereunder.
 - (c) Provide for the enforcement of such requirements by appropriate administrative and judicial process.
 - (d) Provide for administrative organization, staff, financial and other resources necessary to effectively and efficiently carry out its program.
 - (2) The department shall have the exclusive authority and power to require

and issue permits; provided, however, that the department may delegate its power and authority to local pollution control organizations if the department finds it necessary or desirable to do so.

- (3) If the department finds that the location, character or extent of particular concentrations of population, contaminant sources, the geographic, topographic or meteorological considerations, or any combinations thereof, are such as to make impracticable the maintenance of appropriate levels of air and water quality without an areawide pollution control program, the department may determine the boundaries within which such program is necessary and require it as the only acceptable alternative to direct state administration.
- (4) (a) If the department has reason to believe that a pollution control program in force pursuant to this section is inadequate to prevent and control pollution in the jurisdiction to which such program relates, or that such program is being administered in a manner inconsistent with the requirements of this act, the department shall, on due notice, conduct a hearing on the matter.
- (b) If, after such hearing, the department determines that such program is inadequate to prevent and control pollution in the municipality, county, or municipalities or counties to which such program relates, or that such program is not accomplishing the purposes of this act, it shall require that necessary corrective measures be taken within a reasonable period of time, not to exceed ninety days.
- (c) If the municipality, county, or municipalities or counties fail to take such necessary corrective action within the time required, the department shall administer within such municipality, county, or municipalities or counties all of the regulatory provisions of this act. Such pollution control program shall

supersede all municipal or county pollution laws, regulations, ordinances and requirements in the affected jurisdiction.

- (d) If the department finds that the control of a particular class of contaminant source because of its complexity or magnitude is beyond the reasonable capability of the local pollution control authorities or may be more efficiently and economically performed at the state level, it may assume and retain jurisdiction over that class of contaminant source. Classifications pursuant to this paragraph may be either on the basis of the nature of the sources involved or on the basis of their relationship to the size of the communities in which they are located.
- (5) Any municipality or county in which the department administers its pollution control program pursuant to subsection (4) of this section may with the approval of the department establish or resume a municipal or county pollution control program which meets the requirements of subsection (1) of this section.
- (6) In exercising its power, duties and functions the department of air and water pollution control shall have no jurisdiction over local acts of a stricter or more stringent nature.

Other state agencies may be required to carry out a portion of the air quality control implementation plan pursuant to the requirement included in Chapter 403.081 and 403.061 (4).

403.081 Performance by other state agencies

All state agencies, including the division of health of the department of health and rehabilitative services, shall be available to the department to perform, at its direction, the duties

required of the department under this act.

403.061

(4) Secure necessary scientific, technical, research, administrative and operational services by interagency agreement, contract, or otherwise. All state agencies, upon direction of the department shall make these services and facilities available.

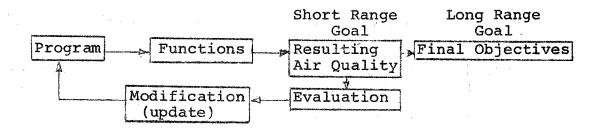
Control Strategy: General

Chapter 403, Florida Statutes, passed by the State Legislature in 1967, states:

"It is declared to be the public policy of this State and the purpose of this act to achieve and maintain such levels of air quality as will protect human health and safety, and to the greatest degree practicable, prevent injury to plant and animal life and property, faster the comfort and convenience of the people, promote the economic and social development of this State and facilitate the enjoyment of the natural attractions of this State."

In line with the intent of the Legislature, the policy, direction and overall program of the Department of Pollution Control have been set forth in terms of:

- (i) Objectives
- (ii) Programs to meet objectives
 - short range
 - long range
- (iii) Functions
 - (iv) Review, Evaluation and Modification of Programs



The philosophy behind the State Legislature's intent in passing Chapter 403 and consequently the philosophy of the Department of Pollution Control is that all the regions within the State of Florida should have an air quality which is most beneficial to the whole population of Florida. Also it is the intent that this air quality be better and

the same throughout the State, irrespective of land use. The reason behind this philosophy is that the residential, commercial and industrial zones of urban and rural areas are all surrounded by the same air mass. (In effect it says that the public health and welfare shall be protected.) This is a very reasonable approach.

The final objective is the attainment and maintenance of a much better air quality throughout the State, an air quality that a fully developed control technology can sustain. The technology has not fully developed yet on all aspects of control. As a result, problems are encountered in trying to meet this final objective overnight or in a short period of time. Therefore the logical approach is to set the ultimate goal and to try to reach this goal in short term incremental steps. This is a sound control procedure and lends itself to escalation beyond interim goals until the basic desired air quality levels are obtained.

The interim air quality levels or goals may be set by different approaches. There have been differing views expressed on this subject by experts and Scientists engaged in the field of air pollution control; such as:

- . Standards to be based upon public health and not upon cost
- Standards to be set on two criteria:
 - (i) protect public from undesirable effects
 - (ii) should not put unnecessary burden on the legitimate enterprise that emits the pollutant.
- Standards to be set based on technical, scientific and social considerations.

In passing the Air Quality Act of 1970, the federal government's philosophy is that all the States must meet as a minimum a certain ambient air quality which is promulgated as "Primary Standards" to be attained by mid 1975, in order to protect public health. The federal government also has promulgated "Secondary Standards" to be achieved within a reasonable time thereafter, which will protect public health and welfare.

It should be realized that the air pollution problem and the air quality in an area are unique for that area in many respects. Besides emission quantities, topography

and meteorology are two other important factors which have to be considered before setting air quality standards. In the absence of an actual air quality survey in all the counties throughout the State on the pollutants for which national standards have been set, the "Secondary" standards are chosen as the goal in Florida by mid 1975. These standards are being chosen based on the limited air quality information which is available for somewhat polluted areas in the State, the need for control and the availability of reasonable control technology to achieve such standards by mid 1975.

As mentioned earlier in this section these standards are short term goals to be achieved within this predetermined time period. The continuing air quality survey which will be instituted during this time period, the availability of further advanced control technology, socio-economic impact and the land use pattern will form the elements of a very realistic approach in evaluating and updating the control strategy (standards) after mid 1975 and in setting the final goals.

Control Strategy: Sulfur Oxides and Particulate Matter

In order to decide upon a desired set of emission standards which will achieve the Secondary Standard by 1975, accurate information on the present emissions and the resulting air quality must be known. An emission standard is a limit on the amount of pollutant emitted from a source. fortunately, there are no direct mathematical calculations that one can perform to relate ambient air quality with the emission limit. The ambient level of a pollutant depends on a number of modifying factors. In the absence of measured air quality data, one method of determining an emission limit is to assume all possible combinations of wind direction, wind velocity and atmospheric stability and to calculate the resulting maximum concentration from a source and then limit the In case of emission from that source to the desired level. multiple sources, this becomes much more difficult. Diffusion model computer programs have been developed which can be used to estimate air quality as a result of multiple sources. But such models have to be field tested because the calculations neither take into account either chemical or photochemical reaction among the pollutants nor the fallout or absorption of pollutants onto other objects.

Emission Inventory:

Where extensive information is available on air quality and emission load in an area, a straight "roll back" technique can be effectively used to calculate the needed reduction in emissions to achieve the desired air quality, because the topography is the same and the general meteorology can be assumed to be the same from year to year.

The Department of Pollution Control has a "Permit" system in operation which was instituted in 1970. By law, all the existing pollution sources as well as the potential ones (new sources) are required to have either an operation permit or construction permit issued by the Department. The permit applicant has to provide information on the present or expected emissions and the control equipment in use or planned to be used.

EMISSION INVENTORY

I. Explanation of Emission Inventory

The emission inventory presented in summary form is a compilation of various sources to obtain a comprehensive documentation of pollutant emissions. The usefulness of this information is unquestionable when developing a comprehensive air resource management plan. Control strategies, air quality modeling, ambient air monitoring and air resource planning are all dependent upon a quantitive and qualitative emissions inventory.

To develop an inventory, accurate data on the quantity and characteristics of emissions from numerous sources is required. The majority of this information was obtained from permit applications, which furnished such data as stack tested emissions. The permit system, which has been in operation 15 months, contains all major point sources in the State. Also, future emissions from major point sources were available from construction permit applications. The area source data was pieced together from a conglomeration of sources. The following paragraphs will outline the basis for area source emission data when information was obtained from sources other than permit applications.

Emissions data for stationary fuel conbustion, transportation and miscellaneous sources was obtained from the following sources. Where individual county data was unavailable the basis for breakdown is given.

1. Florida Petroleum Council furnished data on distillate and residual fuels other than No. 1 fuel oil. Only state-wide figures were available since no state agency records this data. The fuel values were listed according to use. The heating use was broken down using the following method.

TFC x RDD x P/\(\Sigma\)PxRDD = Region Fuel Consumption (state)

where; TFC = Total Fuel Consumption; RDD = Regional
Degree Days;

P = Population of Region

County Consumption = Region Consumption * County Population Region Population

The industrial, electric utilities, railroad and other uses were either obtained separately or from permit applications.

- 2. The Florida Department of Agriculture and Consumer Services made available county sales of gasoline and Kerosene (No. 1 fuel oil). Commercial users were distinguished from residential users by assuming an average monthly summer consumption as a monthly commercial consumption.
- 3. The Florida Gas Transmission Company and United Gas Pipe Line Company furnished all natural gas consumption on a regional basis. County consumption was obtained on a population basis as described above:
- 4. Eglin AFB, Ellyson Field NAS, Cecil Field NAS, Mayport NAS, Jacksonville NAS, Homestead AFB, Patrick AFB, Tyndall AFB, McCoy AFB and McDill AFB all furnished aircraft data which included number of operations and type of aircraft. Appropriate emission factors were utilized to determine total emissions.
- 5. The number of Take-Offs and Landings for airports with FAA operated traffic control towers was

obtained from the FAA Air Traffic Activity Calendar Year 1970. Aircraft types and percentages were obtained by collaborating with FAA tower operators to develop representative statistics of the air traffic.

- 6. Seaboard Coastline Railroad and Florida East Coast Railroad furnished diesel fuel consumption data.
- 7. Florida Department of Revenue provided a statewide diesel fuel consumption figure. Diesel fuel consumption by county was calculated assuming diesel fuel sales in proportion with gasoline sales.
- 8. Information on acreage burned from forest fires and agricultural, silvicultural and landclearing purposes was obtained from the Florida Department of Agriculture and Consumer Services.
- 9. Local air pollution programs and DPC Regional Offices supplied necessary information on grove protection, vessels, minor point and area sources which was not available through the permit system or state agencies.

The information and data supplied by Federal establishment, state agencies, local programs, and industries is believed to be the latest and most accurate available. This information along with that obtained from permit applications combines to form the most complete emission inventory possible within the time table for the development of the Air Quality Implementation Plan.

The Emission Inventory Summary differs from the suggested in Appendix D format (Requirements for Preparation Adoption and Submittal of Implementation) in the following areas:

- 1. Emission from power plants were listed separately from fuel combustion so that comparisons can be more readily made between power plant emissions and other source categories and grand total emissions.
- 2. The category titled "combination" under Fuel Combustion and Power Plants includes sources which fire two or more fuels simultaneously or separately during the course of a year.

EMISSION FACTORS FOR AREA SOURCES

Emission factors utilized were obtained from Compilation of Air Pollutant Emission Factors by M. J. McGraw and R. L. Duprey, Preliminary Document, P.H.S. Publication 999-AP-42. Frequent reference to tables from that document is made in the following emission factor explanations.

1. Forest Fire Emissions

Composition of burned material is assumed 50% wood and 50% landscape refuse. 25 tons/acre is the approximate weight of material burned.

| Pollutant | lb/ton of burned material |
|-----------------|---------------------------|
| Particulate | 17 |
| Sulfur Oxide | Neg. |
| Carbon Monoxide | 55 |
| Hydrocarbons | 12 |
| Nitrogen Oxides | 2 |

- 2. Agricultural, Silvicultural and Landclearing burning:
 Material is assured all agricultural refuse. Weight
 of material burned is estimated at 12.5 tons/acre.
 The agricultural Field Burning Emission Factors in
 Table 13 were used.
- 3. Fuel Combustion: Emission Factor:

| | Fuel Used | Table Utilized |
|----|----------------|----------------|
| a. | Natural Gas | Table 6 |
| b. | Residual Oil | Table 5 |
| c. | Distillate Oil | Table 5 |

| 4. | Tra | nsportation Sources | Emission Table Utilized |
|----|-----|---------------------|-------------------------|
| | a. | Gasoline | Table 14 |
| | b. | Diesel | Table 15 |
| | c. | Aircraft | Table 17 |
| | đ. | Railroad | Table 15 |
| | e. | Gasoline Handling | Table 24 |
| | f. | Vessels | Table 19 |

5. Table 23 was employed for hydrocarbon emission for most petroleum storage installations. However, since the diameter of tank was not readily available for floating roof storage tanks, an emission factor was developed utilizing the information in Table 23.

Floating Tank Emission Factor:

Capacity (gallons) x 120 lbs. HC/day/100 ft. dia. tank/ 4614038 gallons/100 ft. dia. tank = 2.6007 x 10^{-5} lbs. HC/day/day

Summary of Emission Inventory:

At this point, a brief discussion of the Emission Inventory compiled for various air quality control regions is in order. The results obtained from the emission inventory outline the contribution of each source category to the total quantity. Source categories which contribute a significant portion of a pollutant will logically be the first target for emission reduction for that air pollutant. Applicable rules and regulations can be established to decrease emissions from these sources which can produce a significant reduction of the total problem and a corresponding improvement of the air quality.

- A. West Central Florida Air Quality Control Region.
 - 1. Particulates: The total quantity of discharged particulates for 1970 was 70,074 tons with a significant portion (63%) coming from Polk and Hillsborough Counties. These counties are sites for many major industries, e.g. phosphate and citrus industries and power plants. Consequently particulate emissions are expected to be greater.

The emission quantity distribution shown in Figure 11 demonstrates the relative contribution of each source category to the total. Process losses, the greatest contributor, result largely from phosphate and citrus industries. Relatively uncontrolable emission from miscellaneous area sources contribute significantly, 31.3%, to the regional total. Due to coal fired steam-electric power plants located in this region, the relative amount emitted from the power plant category is somewhat higher than in regions utilizing fuel oil as a primary fuel.

- 2. Sulfur Oxides Sulfur Oxide emission from power plants dominate the inventory as shown in figure 12. However, significant contributions are made from process losses which are directly assignable to the sulfuric acid plants of the phosphate industry. These two source categories comprise 94.88% of the total emission with the remaining 5.12% coming from Transportation, Fuel Combustion, Solid Waste Disposal and Miscellaneous area sources.
- 3. Carbon Monoxide, Hydrocarbons and Nitrogen Dioxide. The Carbon monoxide, hydrocarbon and nitrogen oxide
 emissions from transportation sources contribute as
 expected, a majority of the air contaminates as

shown in Figures 13-15. Miscellaneous area sources, more specifically forest fires and agricultural burning, add noticeable quantities of hydrocarbons and carbon monoxide whereas they contribute little to nitrogen oxide emissions due to the relatively low temperature burning. The combustion of fuels in steam electric power plants results in the generation of high temperatures. Consequently, nitrogen oxide emissions from power plants contribute significantly to the total nitrogen oxides emission as shown in figure 15.

B. Central Florida Air Quality Control Region

- 1. Particulate Of the 15,228 tons of particulate pollutants discharged in this region a suprising 47.5% is contributed by miscellaneous area sources i.e., forest fires, agricultural silvicultural and land clearing burning. This percentage largely orginates from the agricultural dependence of this region and the requirement for land clearing and agricultural burning. As shown on Figure 16, process emissions also contribute significantly to the total emissions with citrus processing (i.e. drying) being the major sources in this category.
- 2. Sulfur Oxides Power Plants comprise 90.05% of the total 38697 tons/yr sulfur oxide emissions. The remaining quantities are broken down in figure 17.
- 3. Carbon Monoxide, hydrocarbons and nitrogen oxides Transporation sources comprise 95.0%, 92.82% and 58%
 of the total carbon monoxide, hydrocarbon and nitrogen
 oxide emissions respectively with the remaining source
 categories except for power plants contributing minor
 quantities. Figures 18-20 display the relative
 contribution of each source category to the total
 emissions.

C. Southwest Florida Air Quality Control Region

1. Particulate - The sugar industry's bagassee boilers are the largest single contributor of particulates. These bagasse boilers are virtually uncontrolled and emit large quantities of particulates when burning the cellulose by product. Miscellaneous area sources constitute 41.75% of the total particulate emitted. This quantity is a result of agricultural dependence of this region. The remaining 7.64% comes from power plants, solid waste disposal, process emissions and transportation (Figure 21).

- 2. Sulfur Oxide As shown in Figure 22, power plants dominate the sulfur oxide emissions in the Southwest Region. The remaining percentages from various categories are also given in figure 22.
- 3. Carbon Monoxide, Hydrocarbons, Nitrogen Oxides The percentages contributed by transportation for
 carbon monoxide hydrocarbons, and nitrogen oxides
 are relatively the same as shown in figures 23, 24
 and 25. Miscellaneous area sources contribute
 significantly to carbon monoxide and hydrocarbons.
 Power Plants, like in most regions, add significantly
 to nitrogen oxide emissions.

D. Southeast Air Quanlity Control Region

- 1. Particulates The total quantity of particulates is distributed relatively evenly throughout the categories. Process emissions is the largest category with 28.27% (Figure 26), followed by transportation. The large quantity contributed by particulates from Transportation is due to the large automobile and truck population in the Southeast. Fuel combustion which contributes 19.85% of the total particulates, is largely from uncontrolled Bagasse boilers of the raw sugar industry. A significant portion is also from miscellaneous area sources.
- 2. Sulfur Oxide The need for power generation due to the large Southeast Region population shows the large quantity of sulfur oxides emitted (113,258 tons/yr) from natural gas and oil fired electric power utilities. The remaining percentages are shown in Figure 27.
- 3. Carbon Monoxide, Hydrocarbons and Nitrogen Oxides The quantity of carbon monoxide emitted in the Southeast Region is the largest amount of any region in
 Florida. Due to the vast automobile population in
 urbanized south Florida, 97.5% of a total 1,419,901
 tons/yr is from transportation sources. Remaining
 percentages are given in Figure 28. The percentages
 contributed by transportation of hydrocarbons and
 nitrogen oxides dominate these categories for the
 same reason as carbon monoxide. Figures 30 and 29
 shown the relative quantities and percentages of
 nitrogen oxides and hydrocarbons.

- E. Northwest Florida Interstate Air Quality Control Region
 - 1. Particulates The Florida portion of the Pensacola-Mobile-Pascagola Interstate A.Q.C.R. contributes 49,737.19 tons/yr to the region. Figure 31 shows the relative contribution of each source category to this total. The process emissions category is the major source category contributor with the pulp and paper industries making up most of this quantity. Pulp and paper industries also contribute a large percentage to the fuel combustion category.
- 2. Sulfur Oxides It is suprisingly evident, as seen in figure 32, that power plants do not contribute a majority of emissions. Fuel combustion which is usually a very much smaller contributer constitutes a majority (37.93%) of the total sulfur dioxide emission. This is a direct result of the pulp and paper industry requiring large amounts of steam for processing. The process emission category is a significant contributor with a large portion of this total coming from sulfur recovery plants at crude oil production sites.
 - 3. Carbon Monoxide, Hydrocarbons and Nitrogen Oxides
 Transportation sources are the majority contributor
 of these three pollutants as seen in figures 33, 34
 and 35. Contributions of other source categories
 are also shown in these figures.

Percentages shown in Figures 33, 34 and 35 are values generally expected, with the exception of nitrogen oxide from fuel combustion. This value is somewhat higher due to emissions from the pulp and paper industry.

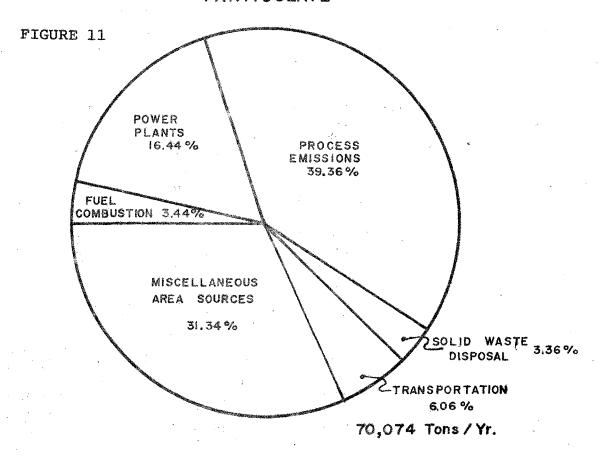
- F. Jacksonville Brunswick Interstate Air Quality Control Region Florida Portion
 - 1. Particulates As shown in Figure 36 the process emission category constitutes 51.35% of the particulates for the Florida portion of the Jacksonville-Brunswich Interstate Air Quality Control Region. The primary process emission sources are from the pulp and paper industry which have plants located in Duval, Nassau, Putnam and Taylor counties. Miscellaneous area sources which contribute significantly (26.02%), are a result of the agricultural dependence of this region and the forest fire frequency.

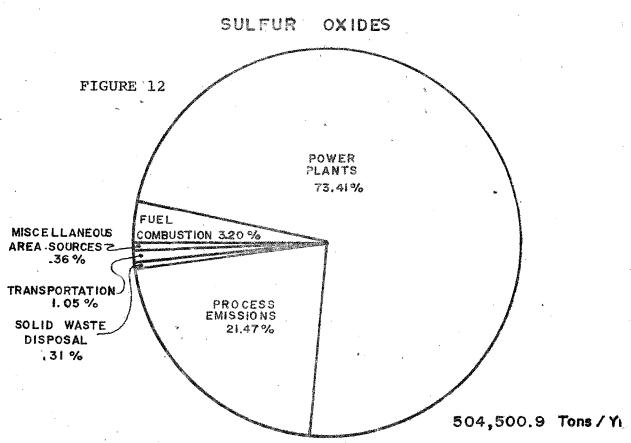
The remaining relative percentages are shown in Figure 36

- 2. Sulfur Oxides The power plant source category is the major contributor of the 90,599 ton/yr. of sulfur oxides emitted in the Florida portion of the Jacksonville-Brunswick A.Q.C.R. However, the relative contribution, 44.64%, is not consistent with values obtained from the other regions. A close inspection of the inventory shows that the pulp and paper industry contributes large quantities of sulfur oxides from their industrail boilers and other plant processes. The pie diagram (Figure 37) shows the relative contribution of each source category to the total.
- 3. Carbon Monoxide, Hydrocarbon and Nitrogen Oxide. The relative contribution of each source category is consistent with values obtained in other regions. The transportation source category is the major contributor of carbon monoxide, hydrocarbons and nitrogen oxides. Nitrogen oxides emissions from power plants is significant for reasons described earlier. Figures 38, 39 and 40 show the category breakdown of these three pollutants.

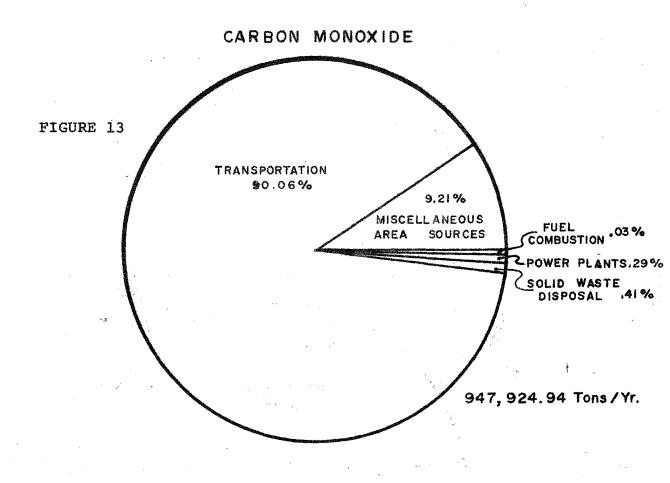
WEST CENTRAL REGION

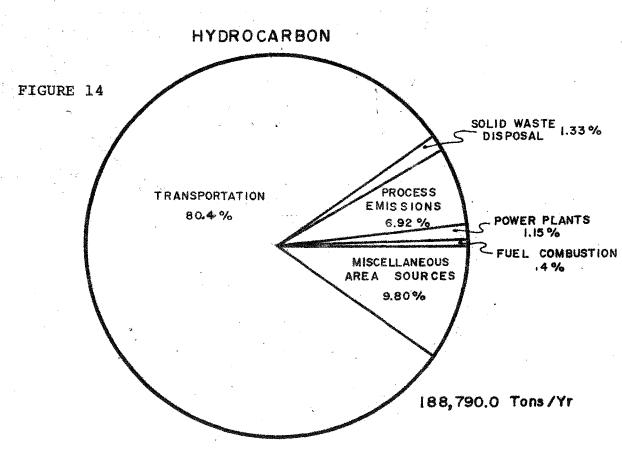
PARTICULATE





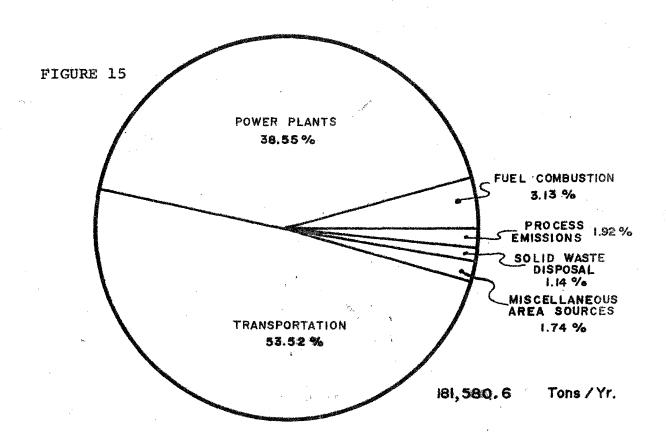
WEST CENTRAL'REGION



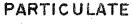


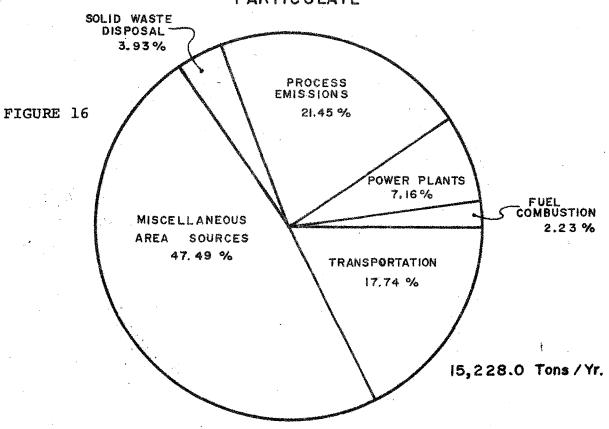
WEST CENTRAL REGION

NITROGEN OXIDES

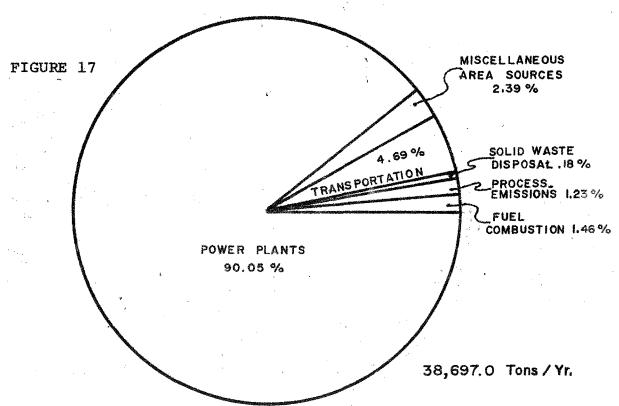


CENTRAL REGION

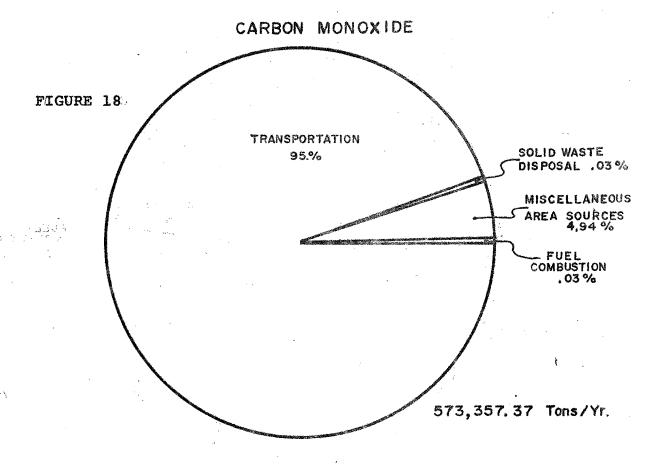


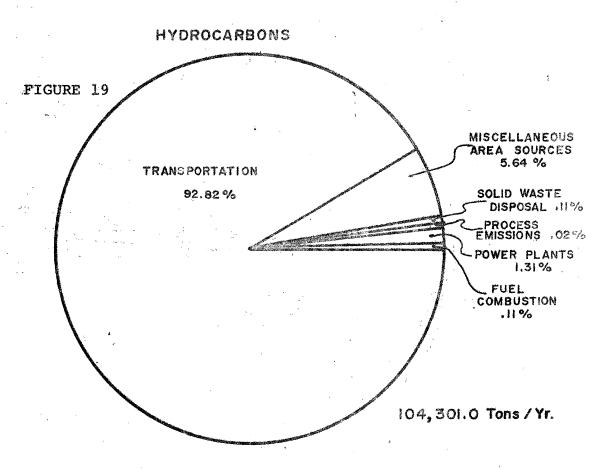


SULFUR OXIDES

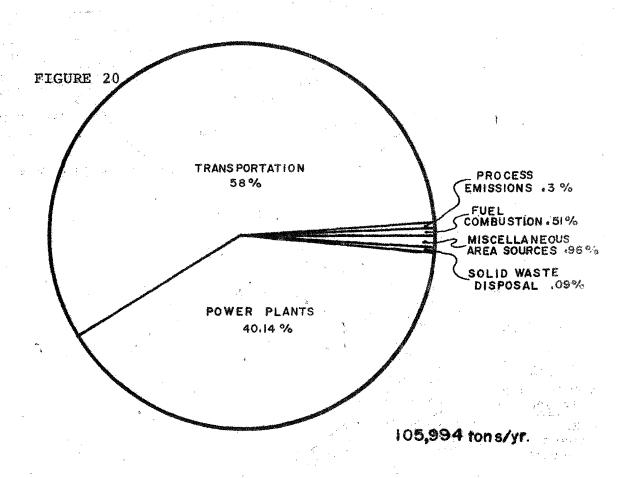


CENTRAL REGION

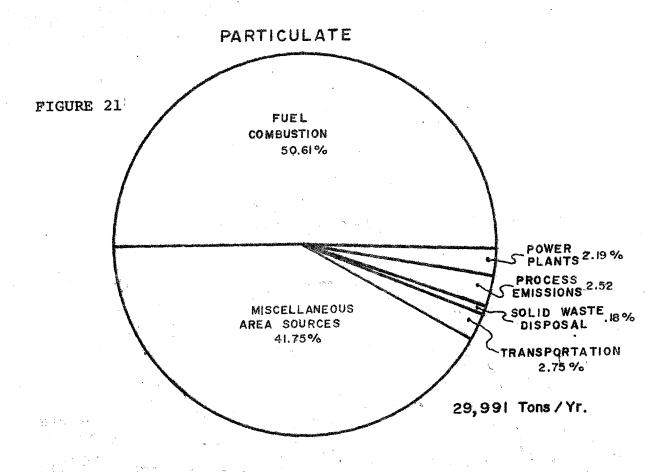


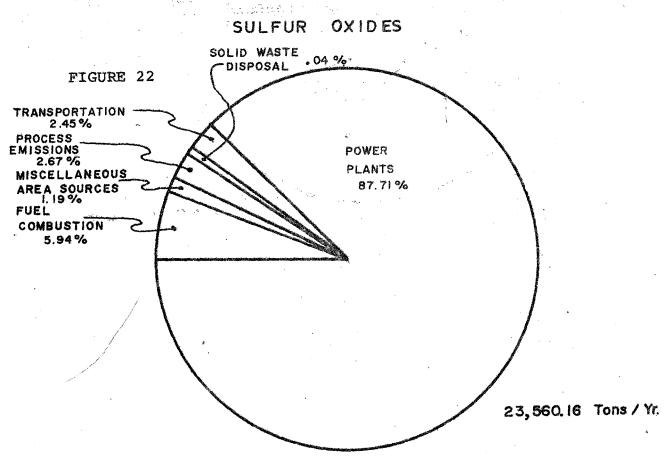


NITROGEN OXIDES

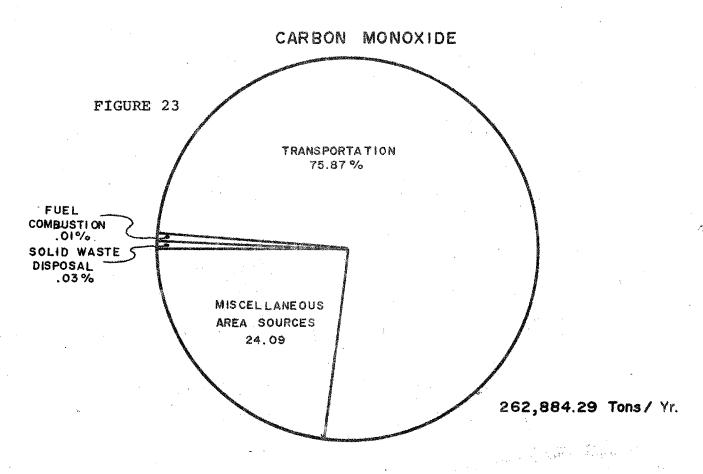


SOUTHWEST REGION .





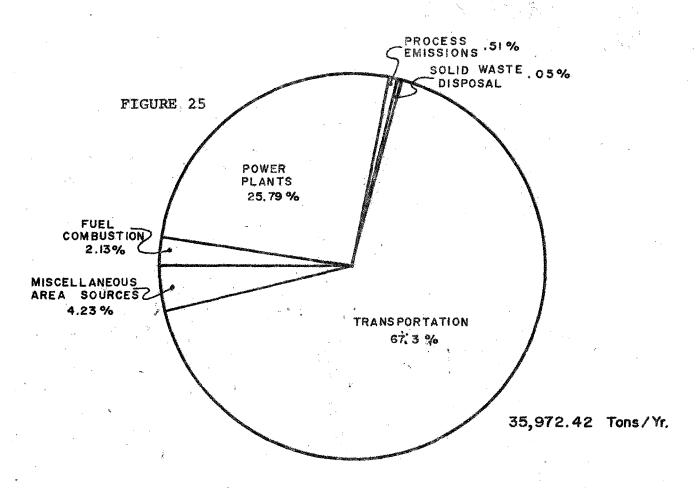
SOUTHWEST REGION



FUEL COMBUSTION PROCESS EMISSIONS.02% SOLID WASTE .07% MISCELI ANEOUS AREA SOURCES 25.91% TRANSPORTATION 72.98°/ 49,675.74 Tons/YE.

SOUTHWEST REGION

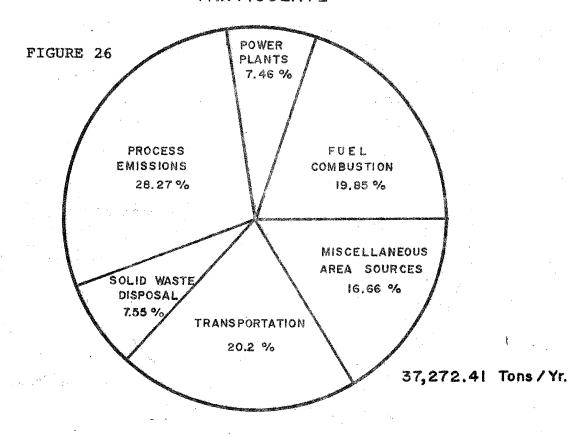
NITROGEN OXIDES

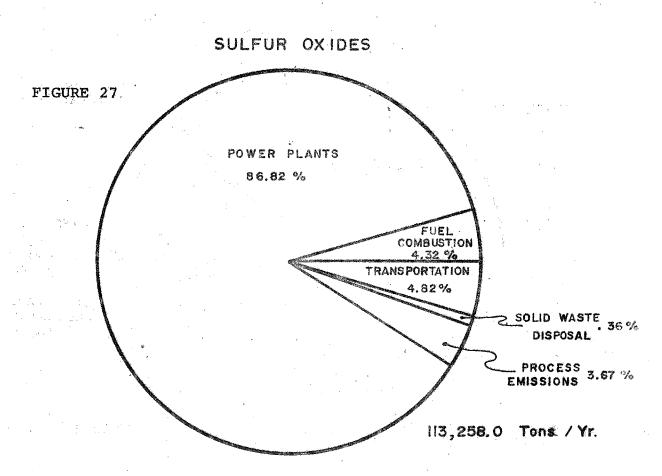


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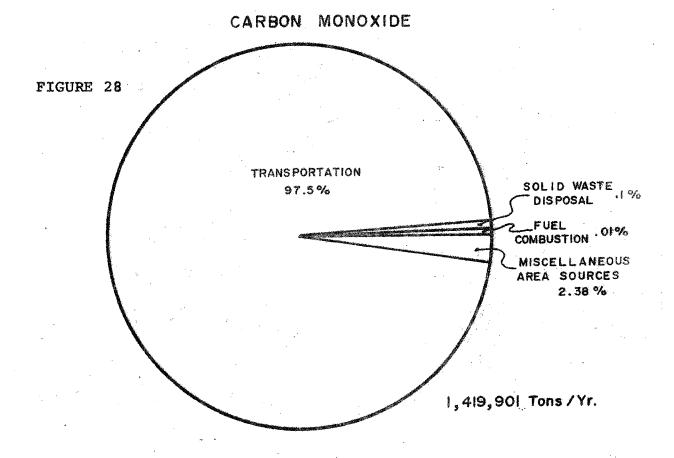
SOUTHEAST REGION

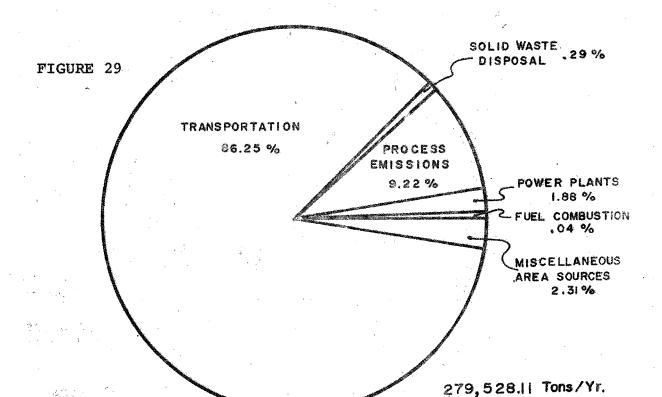
PARTICULATE





SOUTHEAST REGION

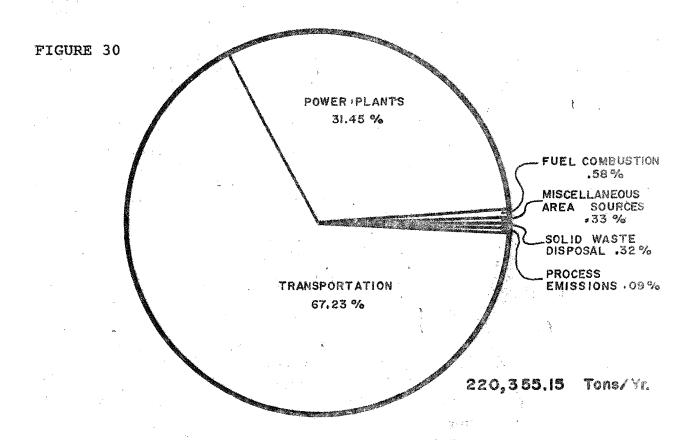




HYDROCARBONS

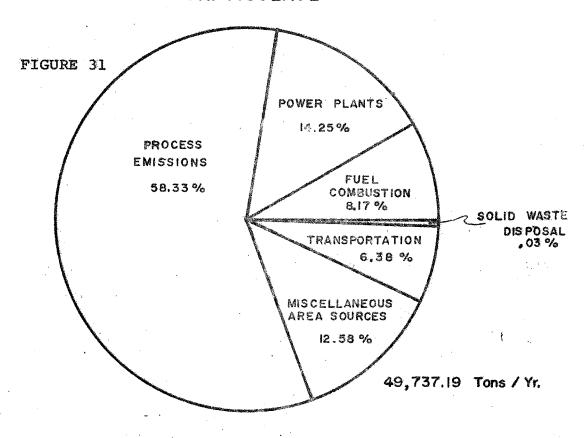
SOUTHEAST REGION

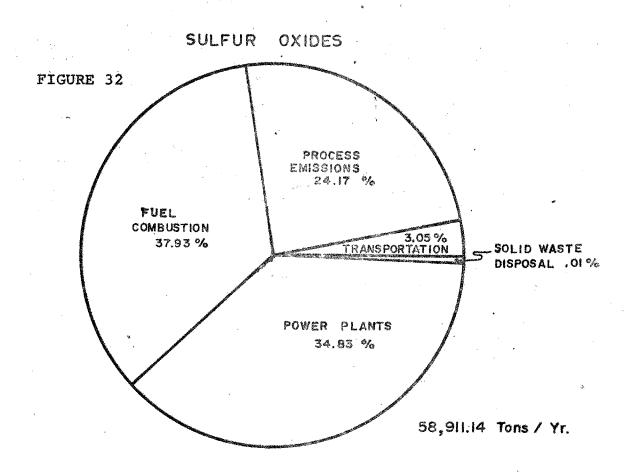
NITROGEN OXIDES



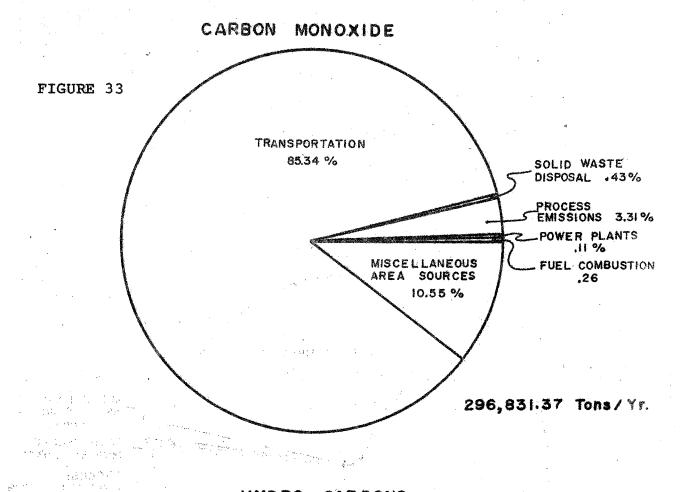
NORTHWEST REGION

PARTICULATE

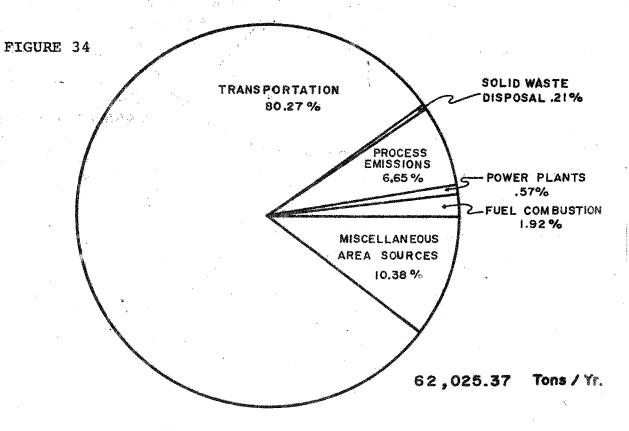




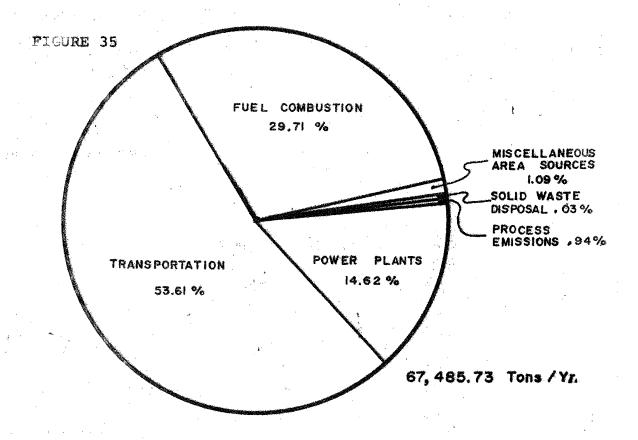
NORTHWEST REGION



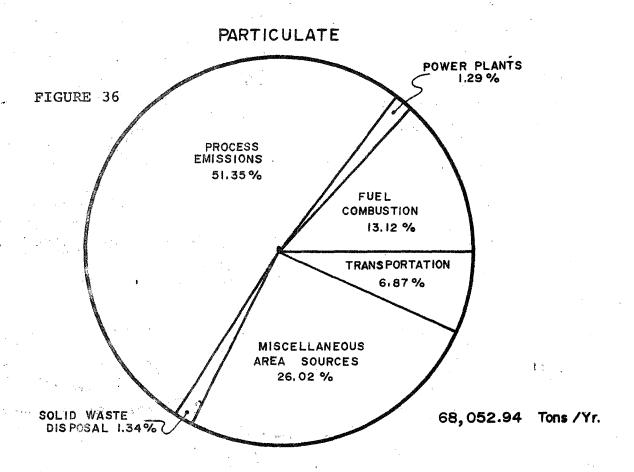




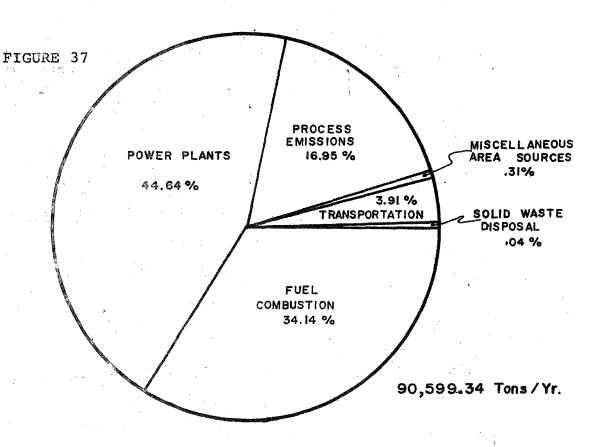
NITROGEN OXIDES



NORTHEAST REGION

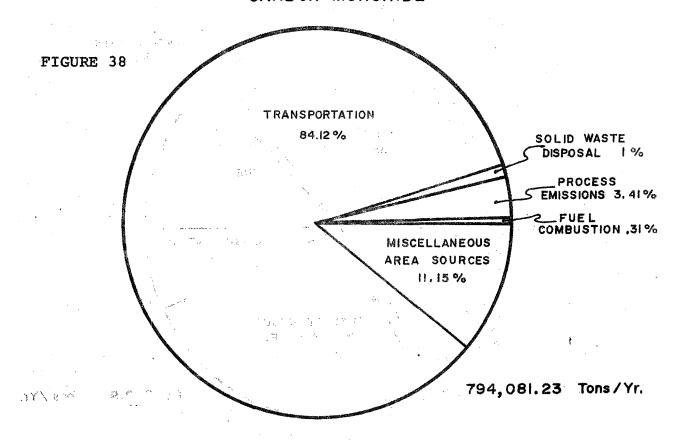


SULFUR OXIDES

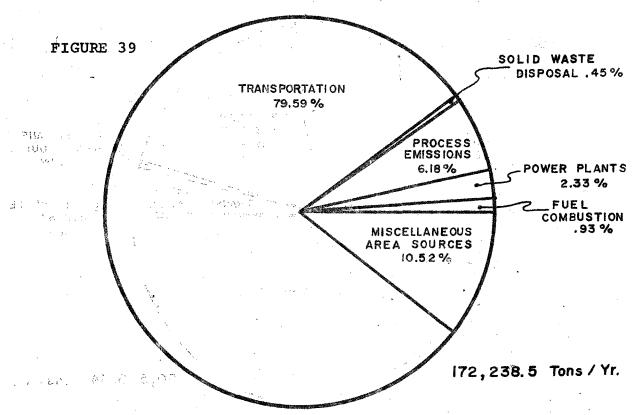


NORTHEAST REGION

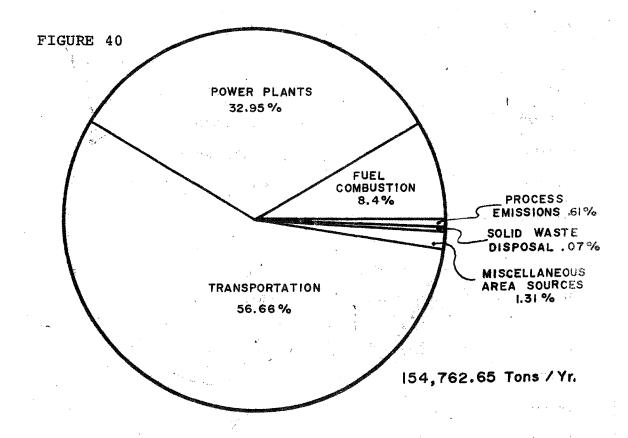
CARBON MONOXIDE







NITROGEN OXIDES



Region Priority Classification

Under the requirements of the Clean Air Act of 1967, the State has been divided into six air quality control regions (Figure 41), four of which are intrastate and two interstate air quality control regions.

I. Northwest Interstate Region - Counties

Florida

Bay Jackson

Calhoun Okaloosa

Escambia Santa Rosa

Gulf Walton

Holmes Washington

Alabama

Baldwin Escambia Mobile

Mississippi

Adams Franklin

Amite Forrest

Clairborne George

Clark Harrison

Copiah Hancock

Covington Hinds

Jackson Pearl River

Jasper Perry

Jefferson Pike

Mississippi (Cont'd.)

Jefferson Davis Rankin

Jones Scott

Lamar Simpson

Lauderdale Smith

Lawrence Stone

Lincoln Walthal

Madison Warren

Marion Wayne

Newton Wilkinson

II. Northeast Interstate Regions - Counties

Florida

Alachua

Baker Lafayette

Bradford Leon

Clay

Columbia Madison

Dixie Marion

Duval Nassau

Flagler Putnam

Franklin St. Johns

Florida (Cont'd.)

Gadsden Suwannee

Gilchrist Taylor

Hamilton Union

Wakulla

Georgia

Appling Coffee

Atkinson Glynn

Bacon Long

Brantley McIntosh

Camden Pierce

Charlton Ware

Clinch Wayne

III. West Central Intrastate Region - Counties

Citrus Manatee

Hardee Pasco

Hernando Binellas

Hillsborough Polk

Levy Sumter

IV. Central Intrastate Region - Counties

Brevard Osceola

Lake Seminole

Orange Volusia

V. Southwest Intrastate Region - Counties

Charlotte Hendry

Collier Highland

Table Land

DeSota Lee

Glades Sarasota

VI. Southeast Intrastate Region - Counties

Broward Monroe

Dade Okeechobee

Indian River Palm Beach

Martin St. Lucie

Air Quality and Priority Classiffcation

Air quality regions throughout the country have been designated based on pollution load, population, meteorological conditions and in some cases based on political boundaries and growth factors also. Pursuant to promulgation of national ambient air quality standards, priority classifications were assigned to these air quality control regions based on either best existing or estimated air quality in each region

The priority Classification system is solely for categorizing the regions on a relative basis and to select an example region in order to select a suitable control strategy. For sulfur dioxide and particulate matter, each region is to be classified into one of three categories, defined as Priority I, Priority II or Priority III. The ambient concentration limits, expressed as micrograms per cubic meter or parts per million by volume which define the classification system for particulate matter and sulfur oxides are shown in the following page.

| Pollutant | | Priority* | |
|------------------------------|------------------------------------|--|--------------------|
| | | II. | III |
| | | La semana di La se | |
| Sulfur Oxides: | Greater than (ug/m ³) | From-To (ug/m³) | Less than (ug/m³) |
| Annual Arithmetic Mean | 100 (0.04 ppm) | 60-100 (0.02- 0.04 ppm) | 60 (0.02 ppm) |
| 24 hr. Maximum | 455 (0.17) | 260-455 (0.10- 0.17 ppm) | 260 (0.10 ppm) |
| 3 hr. Maximum | MERCIFO TOTAL MINES MARCIN SERVICE | >1300-1300 (0.50 ppm) | 1300 (0.50 ppm) |
| | | | ı |

Particulate Matter

| Annual Geometric Mean | 95 | 60-95 | 60 |
|--------------------------|-----|---------|-----|
| 24 hr. Maximum | 325 | 150-325 | 150 |
| | | | |
| | · | | |
| | | | |
| : | | | |

^{*} The more restrictive classification to be chosen for priority classification.

Measurements of statewide ambient concentrations of most of the pollutants for which there are national standards are scarce in the State. Particulate measurements are being made periodically throughout the State in 13 locations which constitute the Florida Air Surveillance Network. National Air Surveillance Network (NASN) maintains five stations in the State, which measure suspended particulate matter, sulfur dioxide and nitrogen oxides. A summary of 1970 air quality data collected at these stations belonging to both these Networks in Florida are given in Figure 42 and Tables V and VI.

AIR QUALITY DATA SUMMARY - FLORIDA AIR SURVEILLANCE NETWORK

TABLE V

| Station | Sampling Internal | Start Date | End Date | Number of Samples | Maximum | Std. Dev. | Annual Geo. Mean ug/m ³ | Geo. Std. Dev. |
|----------------|----------------------|---------------|-------------|-------------------|--------------|--------------|--|-------------------|
| Apalachicola | 12 mo. | 1/2/70 | 12/14/70 | 25 | 121.9 | 25.9 | 54.8 | 1.55 |
| Jacksonville | 11 mo. | 1/20/70 | 11/13/70 | 22 | 104.7 | 15.5 | 55.2 | 1.28 |
| Miami | 12 mo. | 1/2/70 | 12/14/70 | 25 | 111.7 | 18.1 | 55.4 | 1.36 |
| Orlando · | 12 mo. | 1/9/70 | 12/21/70 | 23 | 144.6 | 22.9 | 72.7 | 1.31 |
| Palatka | 12 mo. | 1/2/70 | 12/14/70 | 26 | 127.6 | 20.0 | 55.9 | 1.37 |
| Panama City | 12 mo. | 1/8/70 | 12/14/70 | 12 | 261.5 | 53.2 | 66,9 | 1.47 |
| Pensacola | 12 mo. | 1/2/70 | 12/14/70 | 18 | 187.9 | 38.0 | 65.4 | 1.57 |
| St. Petersburg | 12 mo. | 1/2/70 | 12/14/70 | 26 | 91.7 | 18.1 | 50.8 | 1.46 |
| Tampa | 12 mo. | 1/10/70 | 12/17/70 | 24 | 188.7 | 38.2 | 79.0 | 1.49 |
| Titusville | 12 mo. | 1/9/70 | 12/14/70 | 26 | 78.3 | 13.3 | 43.5 | 1.45 |
| W. Palm Beach | 12 mo. | 1/2/70 | 12/14/70 | 25 | 157.1 | 24.3 | 54.6 | 1.92 |
| Winter Haven | 12 mo. | 1/2/70 | 12/14/70 | 25 | 111.4 | 21.9 | 49.9 | 1.52 |
| Zolfo Springs | 12 mo. | 1/29/70 | 12/14/70 | 24 | 6 5.3 | 11.6 | 29.0 | 1.34 |
| | | | | | | | | |
| | | · | | | , mg. | | | |
| | | | | | · | | | |

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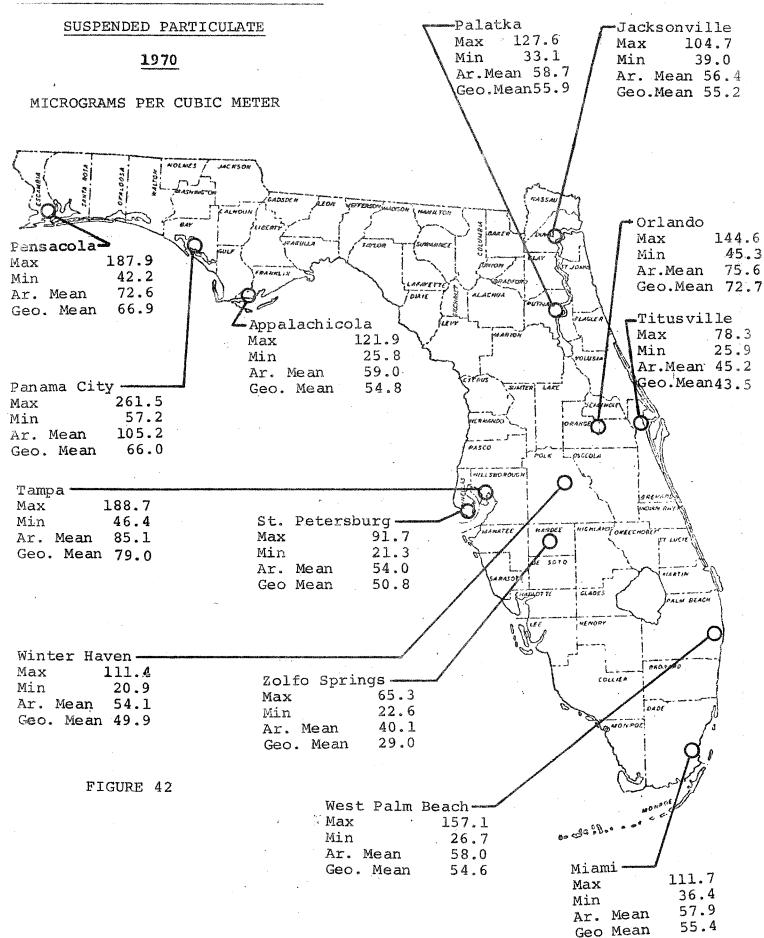


TABLE VI

NATIONAL AIR SURVEILLANCE NETWORK - 1970

Particulate (ug/m³)

| Station | Sampling Interval | Start Date | End Date | # of Samples | Maximum | Scd. Dev. | Annual Geo. Mean | Geo. Std. Dev. |
|-------------------|----------------------|---------------|-------------|-----------------|---------|---|---------------------|-------------------|
| Hardee Co. | 12 months | 1/2/70 | 12/14/70 | 26 | 49 | 9.14 | 32.1 | 1.34 |
| Jacksonvill | e 12 months | 1/9/70 | 12/27/70 | 26 | 114 | T. G. | 67.0 | 1.23 |
| Mi ami | 12 months | 1/2/70 | 12/15/70 | 25 | 117 | 21.8 | 69.5 | 1.40 |
| St. Petersburg | h 12 months | 1/2/70 | 12/14/70 | 24 | 137 | 24.1 | 42.6 | 1.50 |
| Tampa | 12 months | 1/2/70 | 12/15/70 | 26 | 167 | 35.6 | 86.9 | 1.52 |

TABLE VI cont'd.

NATIONAL AIR SURVEILLANCE NETWORK - 1970

 $so_2 \left(\frac{ug}{m^3}\right)$

| Station | Sampling Interval | Start Date | End Date | # of Samples | Maximum | Std. Dev. | Annual Arithmetic Mean |
|----------------------------------|----------------------|---------------|-------------|-----------------|--|--------------|---------------------------|
| Hardee Co. (Zolfo Springs) | 6 months | 7/4/70 | 12/14/70 | 13 | 14 | 4.99 | 3.4 |
| Jacksonville | 12 months | 1/9/70 | 12/27/70 | 20 | 62 | 15.2 | 11.6 |
| Miami | 12 months | 1/2/70 | 12/15/70 | 26 | 20 | 5 , 5 | 5.7 |
| Tampa | 12 months | 1/2/70 | 12/15/70 | 26 | 92 | 21.9 | 16.5 |
| St. Petersburg | 12 months | 1/2/70 | 12/14/70 | 26 | 96 | 22.5 | 16.6 |
| | | | | | Notice and the second of the s | | |

If these data alone are considered for priority classification, then the priority classification of the various regions should be as follows for sulfur oxides and particulate matter.

| Region | Priority Classification | | | | | | | |
|--------------|-------------------------|----------------|----------------|--|--|--|--|--|
| | Particulate | and the second | Sulfur Dioxide | | | | | |
| | State Network | NASN | NASN | | | | | |
| Northwest | II | stagi | | | | | | |
| Northeast | III | II | III | | | | | |
| West Central | II | II | III | | | | | |
| Central | II | - 1.00E) | <u>.</u> | | | | | |
| Southwest | | . share | - | | | | | |
| Southeast | II | II | - | | | | | |

For the purpose of designating priority classifications to these various regions, extensiveness and adequacy of the available ambient data were considered where they were available. In the absence of such data, available data from the local programs and an overall estimated air quality were the basis of priority classification. The local pollution control programs in Dade, Hillsborough and Duval counties have been carrying out a somewhat more extensive ambient air monitoring for selected pollutants in their respective jurisdictions. A Summary of such data on particulates and sulfur dioxide made available from these local programs are included in Table VII and the locations of these sampling sites in Tampa and Jacksonville are shown in Figures 43 and 44.

Dade County Air Quality - 1970

Suspended Particulate Matter - 9 locations*

Average Maximum 101.1 ug/m^3 Average 62.8 ug/m^3

^{*}Description of locations where the samples were collected were not provided.

SO₂ - 1 Station*

Average

0.002 ppm

Maximum

0.013 ppm

*Description of location not provided

TABLE VII
AIR QUALITY DATA SUMMARY-TAMPA

PARTICULATE MATTER (ug/m³)

| | UTM Location (10 ³ Meters) | Sampling Interval | Start Date | End # c | | Maximum 24 hrs | Std. Dev. | Annual Geo. Mean | Geo. Std. Dev. | |
|----|---|----------------------|---------------|-----------------|------|-------------------|--------------|---------------------|-------------------|----------------|
| 1) | 17-357.3-3092.3 | 12 Months | 1-1-70 | 12-30-70 | 26 | 167.0 | 34.89 | 86.9 | 1.52 | |
| 2) | 17-352.9-3091.3 | 12 Months | 1-1-2-70 | 12-30-70 | 26 | 235.9 | 49.95 | 95.1 | 1.057 | Maria Maria |
| 5) | 17-363.4-3102.7 | 12 Months | 1-1-70 | 12-30-70 | 26 | 117.7 | 25.58 | 55.0 | 1.56 | |
| 6) | 17-364.9-3093.1 | 12 Months | 1-1-70 | 12-30-70 | 26 | 197.4 | 37.48 | 90.0 | 1.46 | |
| 7) | 17-374.5-3091.4 | 12 Months | 1-1-70 | 12-30-70 | 26 | 78.7 | 15.65 | 43.0 | 1.44 | 900 1 |
| 8) | 17-389.7-3099.6 | 12 Months | 1 ==== 70 | 12-30-70 | 26 | 188.1 | 36.32 | 61.0 | 1.71 | 1920 |
| 9) | 17-358.8-3066.8 | 12 Months | 1 200 1 cm 70 | 12-30-70 | . 22 | 98.3 | 18.59 | 49.5 | , 1.5 | Negdyni |
| 15 | | 12 Months | 1-1-70 | 12-30-70 | 26 | 288.7 | 53.27 | 63.1 | 1.85 | |
| 29 | 17-354.9-3079.5 | 12 Months | 1-1-70 | 12-30-70 | 26 | 128.3 | 21.74 | 46.3 | 1.46 | elin- |
| 30 | 17-356.8-3092.1 | 12 Months | 1-1-70 | 12-30-70 | 26 | 188.7 | 37.42 | 79.0 | 1.45 | |
| 47 | 17-344.8-3112.6 | 12 Months | 1-1-70 | 12-30-70 | 26 | 72.7 | 17.26 | 31.1 | 1.63 | |
| 49 | 17-356.5-3114.3 | 12 Months | 1 = 1 = 70 | 1.2 m 3.0 m 7.0 | 26 | 133.5 | 25 , 6 | 39.9 | . 70 | |

TABLE VII cont'd.

Particulate (con't.) ug/m^3

AIR QUALITY DATA SUMMARY - TAMPA

| UTM Location (10 Meters) | Sampling Interval | Start Date | End Date | # of Sampling | Maximum 24 Hours | Std. Dev. | Annual Geo. Means | Geo. Std. Dev. |
|--------------------------------|----------------------|---------------|--------------|------------------|---------------------|--------------|----------------------|----------------------|
| 50) 17-368.3-3066.3 | 12 months | 1-1-70 | 12 = 30 - 70 | 22 | 68.7 | 13,15 | 33,3 | 1 43 |
| 51) 17-350.1-3095.1 | 12 months | 1-1-70 | 12-30-70 | 26 | 114.5 | 22.36 | 60.0 | 1.46 |
| 54) 17-366.2-3076.8 | 12 months | 1-1-70 | 12-30-70 | 18 | 81 a 7 | 12,92 | 49.5 | 1,32 |
| 55) 17-365.4-3085.6 | 12 months | 1-1-70 | 12-30-70 | 26 | 74.9 | 16.17 | 38,0 | 1.50 |
| 63) 17-357.0-3090.0 | 12 months | 1-1-70 | 12-30-70 | 26 | 234.5 | 50.05 | 104.3 | 1.63 |

TABLE VII cont'd.

AIR QUALITY DATA SUMMARY - TAMPA

| SULFUR | DIOXIDE | - | ppb |
|--------|---------|---|-----|
|--------|---------|---|-----|

| UTM Loc (km | ation | Sampling Interval (months) | Start Date | End Date | # of Samples | Max. 24 Hours | Annual Arith. Mean | Std. Dev. | Geo. Std. Dev. |
|-------------------|------------------------------|----------------------------------|---------------|-------------|-----------------|------------------|--------------------------|--------------|----------------------|
| 1) | 17-357.3- 3092.3 | .12 | 1-1-70 | 12-30-70 | 26 | 35.0 | 7.0 | 8.54 | 69.57 |
| 29) | 17-354.9- 3079.5 | 12 | 1-1-70 | 12-30-70 | 135 | 66.3 | 8.75 | 11.68 | 2.36 |
| 31) | 17-396- 3114 | 12 | 1-1-70 | 12-30-70 | 358 | 40.0 | 3.5 | 5.53 | 44.89 |
| 55) | 17-365.4- 3085.6 | 12 | 1-1-70 | 12-30-70 | 157 | 66.0 | 7.5 | 9.41 | 3.20 |
| 63) | 17-357.0- 30 90 .0 | 12 | 1-1-70 | 12-30-70 | 131 | 239.8 | 18.11 | 26.41 | 18.49 |

TABLE VII cont'd.

AIR QUALITY DATA SUMMARY-JACKSONVILLE

| | TICULATE MATTER ug/m UTM | 3 | | | | | | Annual | Geo. |
|-----|---|----------------------|---------------|----------|-------------------|--|--------------|-------------------|--------------|
| | ocation ousand meters) | Sampling Interval | Start Date | | Number Samples | Maximum 24 hrs (u g/m ³) | Std. Dev. | Geo.Mean. (ug/m³) | Std. Dev. |
| 1. | 17-442.44-3354.91 (Arlington River Dr) | 12 Months | 1-1-70 | 12-29-70 | 127 | 366 | 64.1 | 54.8 | 2.54 |
| 2. | 17-442.53-3358.65 (Peeler Rd) | 11 Months | 2-1-70 | 12-29-70 | 123 | 164 | 23.9 | 41.9 | 2.33 |
| 3. | 17-438.17-3354.5 (T.V. Tower) | 12 Months | 1-1-70 | 12-29-70 | 137 | 484 | 75.6 | 87.8 | 1.63 |
| 4 . | 17-436.55-3355.25 (Hemming Park) | 12 Months | 1 - 1 - 70 | 12-29-70 | 1.29 | 132 | 21.0 | 51,2 | 1.22 |
| 5. | 17-436.42-3356.66 (Laboratory) | 12 Months | 1-1-70 | 12-29-70 | 126 | 230 | 38.5 | 55.3 | 1.59 |
| 6. | 17-430.45-3354.67 (Hunt Street) | 12 Months | 1-1-70 | 12-29-70 | 127 | 356 | 34.8 | 51.9 | 1.25 |
| 7. | 17-434.65-3354.6 (Forest Street) | 12 Months | 1-1-70 | 12-29-70 | 131 | 459 | 79.5 | 156.9 | 1.45 |
| 8. | 17-438.92-3358.22 (Kooker Park) | 12 Months | 1-1-70 | 12-29-70 | 136 | 199 | 36.1 | 61.8 | 1.67 |
| 9. | 17-439.6-3367.49 (San Mateo) | 12 Months | 1-1-70 | 12-29-70 | 128 | 128 | 19.1 | 39.9 | 1.56 |

AIR QUALITY DATA SUMMARY - JACKSONVILLE

SULFUR DIOXIDE

TABLE VII cont'd.

| | UTM Location (10 ³ Meters) | Sampling Interval | Start Date | End Date | Number of Samples | Maximum 24 hrs ppb | Annua Arith ppb | 1 Std. .Mean Dev. | Geo. Std. Dev. |
|----|---|----------------------|------------------|--------------------|----------------------|--------------------------|--|----------------------|----------------------|
| | 17-442.44-3354.91 (Arlington River Dr | 12 Months | 1-1-70 | 12-29-70 | 127 | 18 | 2.2 | 3.80 | 2.69 |
| | 17-442.53-3358.65 (Peeler Rd) | ll Months | 2-1-70 | 12-29-70 | 137 | . 6 7 | 6.9 | 10.9 | 3.27 |
| | 17-438.17-3354.5 (T.V. Tower) | 12 Months | 1 mar 1 max 70 | 12 == 29 == 70 | 127 | 29 | 4,5 | 7.2 | 3.12 |
| | 17-436.55-3355.15 (Hemming Park) | 12 Months | 1 == 1 == 70 | 12 m² 29 m² 70 | 132 | 133 | II . I | 19.1 | 3.45 |
| | 17-436.42-3356.66 (Laboratory) | 12 Months | 1 mm 1 mm 70 | 12-29-70 | 125 | 58 | ementeration to the contract of the contract o | 12.28 | 3.38 |
| 92 | 17-430.45-3354.67 (Hunt St) | 12 Months | Town Trace 10 | 12-29-70 | 124 | 134 | 4.3 | 15.5 | 3.56 |
| | 17-434.65-3354.6 (Forest St) | 12 Months | 1 4044 1 500 7 0 | 1, 2 vive 29 vm 70 | 130 | 97 | 6.8 | 14.4 | 3.28 |
| | 17-438.92-3358.22 (Kooker Park) | 12 Months | <u> </u> | 12-29-70 | 135 | 54 | 6 a 7 | 9.2 | 2.83 |
| | 17-439.6-3367.49 (San Mateo) | 12 Months | 1 === 70 | 12-29 or 70 | 133 | 164 | 4.4 | 15.1 | 2.9 |

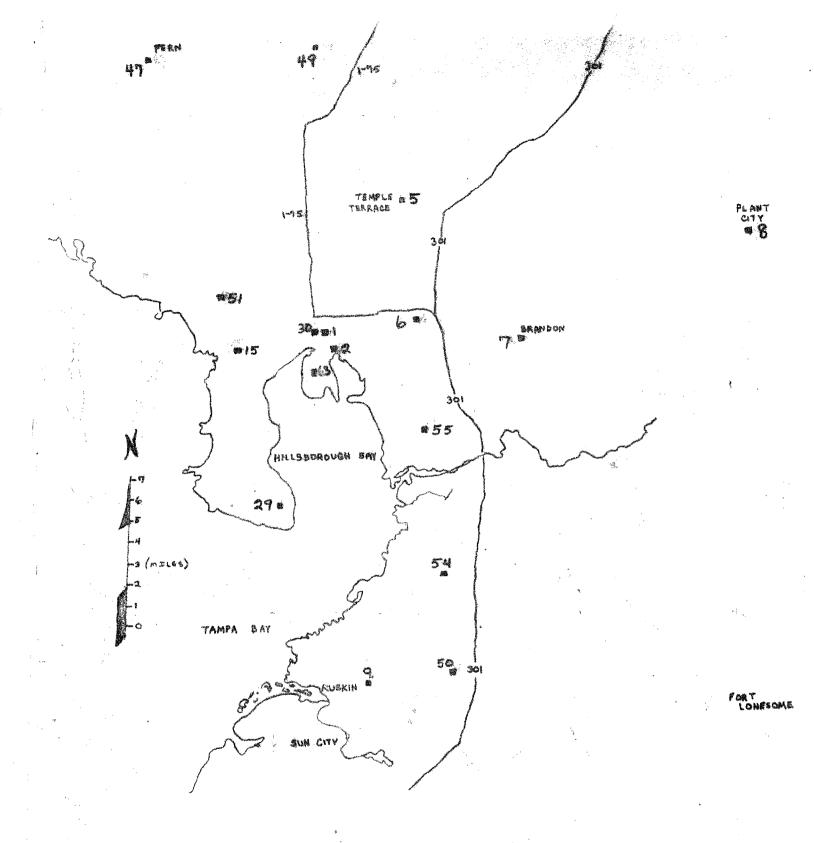
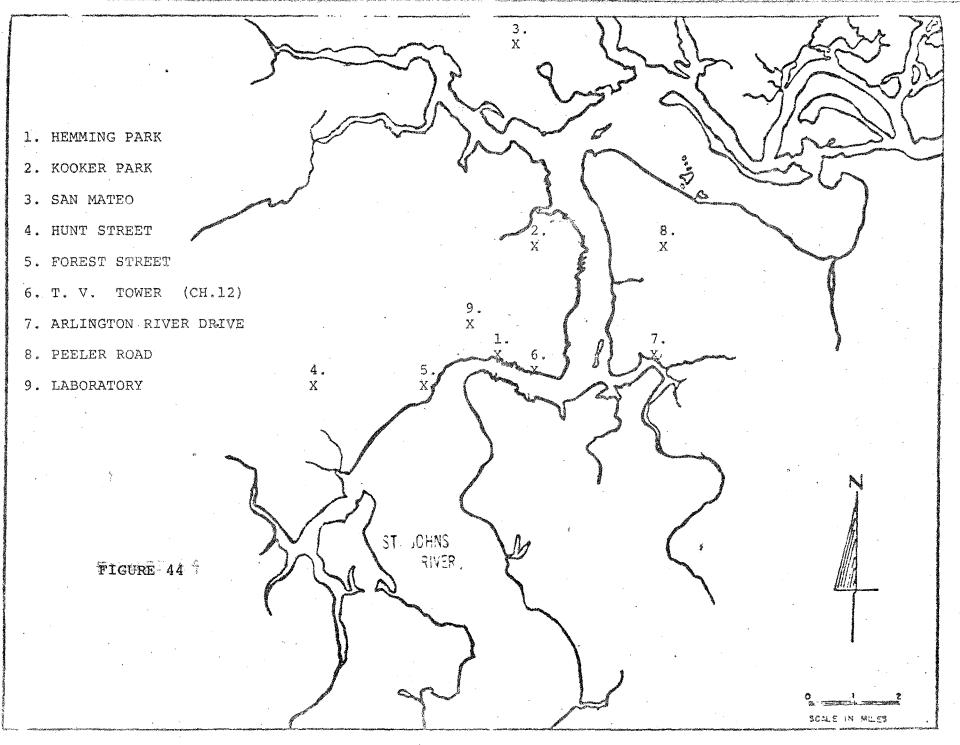


Figure 43

AIR POLLUTION SAMPLING STATIONS
1969-1970

SUSPENDED PARTICULATES



For the purpose of developing the Implementation Plan based on an example region, the priority classification of the six air quality control regions were as follows for particulate matter and sulfur dioxide.

Region Priority Classification - Particulate and Sulfur Dioxide

| Region | Particulate | Sulfur Dioxide | Remarks |
|-------------|-------------|----------------|-------------------------------------|
| Northwest | I* | 1* | *Because Alabama portion is I |
| Northeast | I | II | • |
| West Centra | ıl I | | Example Region |
| Central | 11 | III | · |
| Southwest | III | · III | |
| Southeast | . II | III | |

The example region for the control of particulate matter and sulfur dioxide was decided upon the West Central Region because of the total quantity of pollution load, maximum ambient level concentrations encountered, the need for control of major sources and the magnitude of applicability of control strategy which can be followed throughout the State and which will result in an overall statewide reduction in pollution load as well as enhancement of air quality throughout the State.

Priority Classification - Carbon Monoxide, Nitrogen Oxides

Hydrocarbons and Photochemical Oxidants

Similar to particulate matter and sulfur dioxide, the priority classification for carbon monoxide, nitrogen oxides and photochemical oxidants is to be based on ambient air concentrations. Major sources of carbon monoxide, hydrocarbons and nitrogen oxides are the automobiles the population of which is ever increasing. Hydrocarbons and nitrogen oxides emitted into the air react in sunlight and produce photochemical pollutants (smog). The triggering compound for photochemical smog is the production of photochemical oxidants (about 90 percent of which is ozone) and presence of large amounts of hydrocarbons and nitrogen oxides. The severity of photochemical products formation then is directly relatable to the following:

- * Quantity of hydrocarbons emitted
- * Quantity of nitrogen oxides emitted
- * Intensity and duration of sunlight

The more of the combination of the above pollutants and sunlight, the more is the likelihood of photochemical reaction products reaching higher ambient concentrations. Photochemical oxidant (mainly ozone) which is an intermediate product, is, in addition to nitrogen oxides and hydrocarbons, an indicator of the magnitude of this type of air pollution.

The ambient concentrations of these pollutants during the months of July-September were the basis for priority classifications. In general, these are the months when the solar insolation is high in the northern hemisphere. The gasoline consumption is also generally high during these months. In Florida, this nationwide trend is exhibited only in two regions, namely in northeast and northwest regions (Figures 45 and 46). In the other four regions, this trend is hot exhibited mainly because of high tourist influx during winter and spring months. However, because of higher solar insolation during summer months, the net build up of concentrations of these pollutants is most likely to be higher.

A special summer study measurements of carbon monoxide,

nitrogen oxides and photochemical oxidants were carried out by the Environmental Protection Agency during the months July through September in 1971 in Jacksonville, Tampa and Miami.

A summary of the maximum and expected average concentrations are given below (see Appendix A for individual values based on one hour, wight hours and twenty-four hours basis).

SEE CHART ON FOLLOWING PAGE

AIR QUALITY DATA SUMMARY - TAMPA

| NITROGEN | DIOXIDE |
|----------|---------|
|----------|---------|

17-357.0-3092.17

5

| UTM Location | Sampling Interval (Months) | Start Date | End Date | # of Samples | Arith. Mean | Std. Dev. | Geo. Std. Dev. | Est. A Arith. | |
|--|--|---|---|---|---|--|--|---|---|
| 17-357.53-3092 1105 E. Kennedy | | 7-5-71 | 9-30-71 | 25.0 | 139.0 | 3.76 | 1.37 | 1.3 | 1.0 |
| 17-357.53-3092 | . 47 12 | 1-2670 | 12-16-70 | 26.0 | 132 | 59.1 | 1.50 | N | A |
| | | | | | | | | | , |
| PHOTOCHEMICAL (| OXIDANTS-ppm | | | | | | | | |
| UTM Location (km) | Sampling Interval (Months) | Sta: Date | | # of Samples | Max. 1 hr | Property and the statement of the statem | Arith. Mean | Std. Dev. | Geo. Std. Dev. |
| 17-351.8-3095. | 3 | 7-7- | 71 9-30 | -71 · 1919 | 0.0 | 7 | 0.015 | 0.01 | 3.73 |
| Grander von Height geber gewaren von de Bergeland den de Bergeland de State de Bergeland (für Angeland (für Angela | ны до до поставления на принципа на пр На принципа на | Miller Miller Miller Miller Stead (Pape complete communication of the Pape complete communication of the Pape | о том при | мотим тороду на темпосиями, от темпосителен и 12 добе доминара 155 г. в Арт положин | S. E. T. B. Grand Bill and Million and M | i kiring mengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pengangkan pe | терительной при той и в терительной постору под постору под постору под постору постору постору постору постор В постору по | aget Life (Life (1964) (Clin 4) of the Charles American Service (Clin 4) of the Charles | georgeone de _{de} de de la desta della del |
| CARBON MONOXIDE | MQQ ~~ 2 | | | | | | | | |
| UTM Location | Sampling Interval | Start Date | End Date | # of Sa | | | ax. Arith. 8hr Mean | Std. Dev. | Geo. Std. Dev. |

3255.0

14 6.75 **2.01**

1.45

1.90

9-30-71

5-6-71

AIR QUALITY DATA SUMMARY - JACKSONVILLE

| CARBON MONOXIDE | (1) | 1 | Hour | Samples | (2) | 8 | Hour | Running | Averages |
|-----------------|-----|---|------|---------|-----|---|------|---------|----------|
| (ppm) | | | | | | | | | |

| | ation Meters) | Sampling Interval | Start Date | End Date | # of Samples | Maximum 1 Hour | Maximum 8 Hour | Arith, Mean. | Std. Dev. | Geo. Std. Dev. |
|-----|-----------------------|----------------------|---------------|-------------|--------------|-------------------|-------------------|-----------------|--------------|----------------------|
| (1) | 17-436.55- 3355.25 | 3 Months | 6-29-71 | 9-30-71 | 1345 | 21.5 | | 1.9 | 2.03 | 18.93 |
| (2) | ŧŧ | | ŧŧ | PE | 1169 | | 8.6 | 2.5 | 1.49 | 2. 4% |

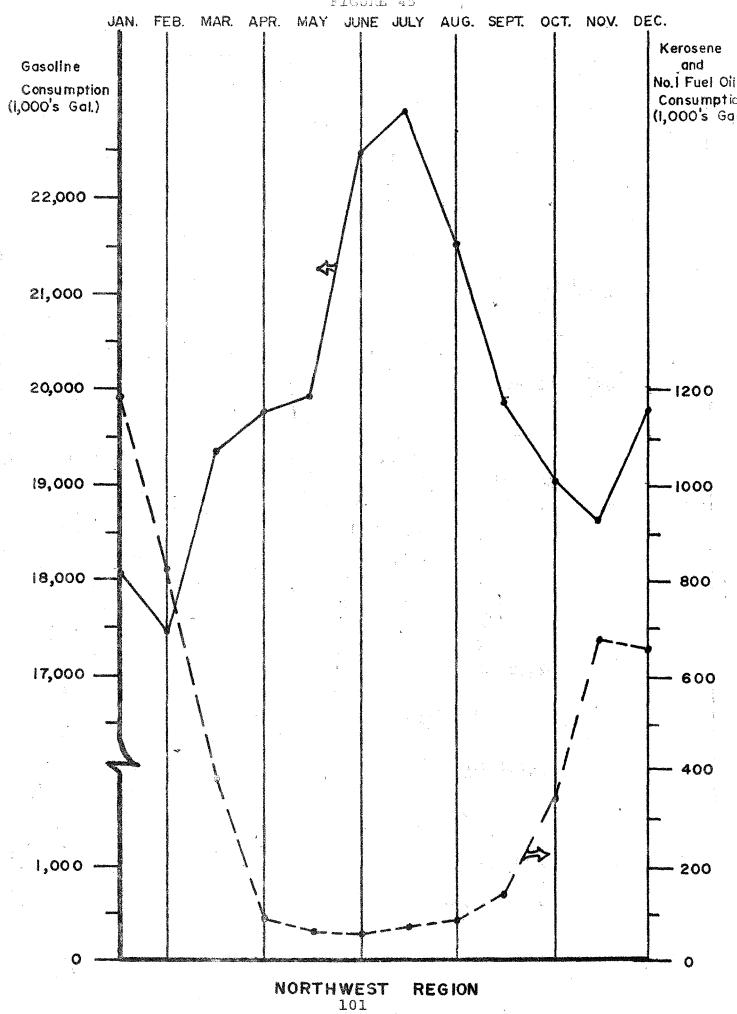
| PHOTOCHEMICAL OXIDANIS - ppm | | | | | | | | Geo | |
|------------------------------|----------------------|---------------|-------------|--------------|------------|----------------|-------------|--------------|--|
| UTM Location | Sampling Interval | Start Date | End Date | # of Samples | Max. 1 Hr. | Arith. Mean | Std Dev. | Std. Dev. | |
| %17-438.96-3361.3 | 3 Months | 7-3-71 | 9-30-71 | 2044 | 0.1 | 0.018 | 0.01 | 3.19 | And the second s |

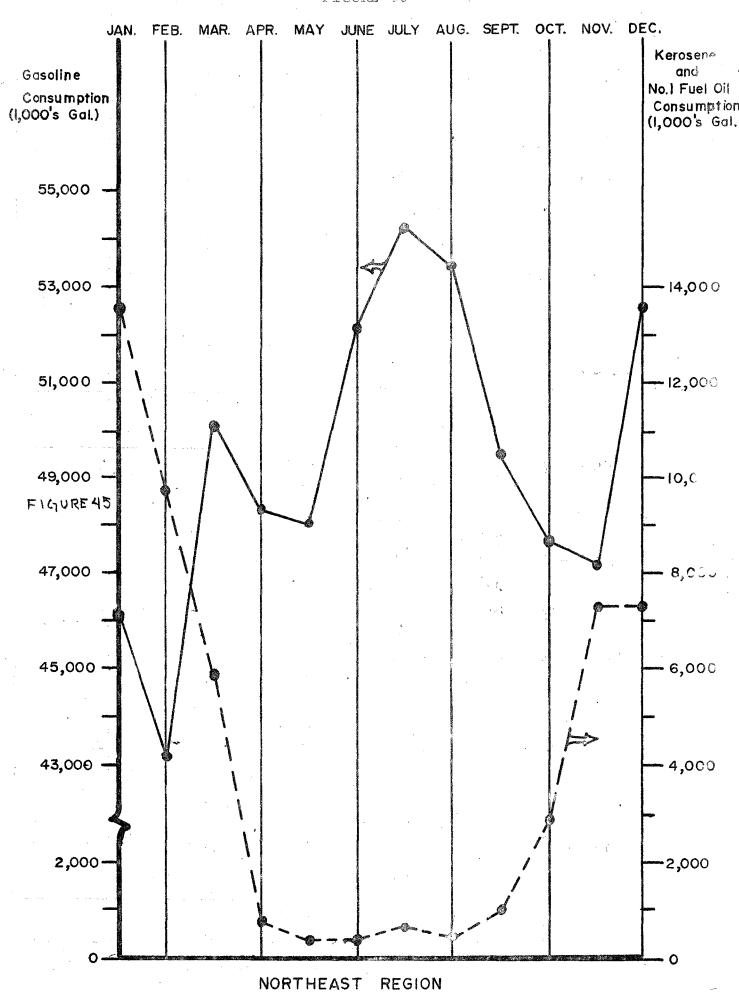
| UTM Location (103 Meters) | Sampling Interval (Months) | Start Date | End Date | # of Samples | Arith. Mean | Std. Dev. | Geo. Std. Dev. | Est. Annual Arith Mean |
|---------------------------|----------------------------|---------------|-------------|-----------------|----------------|--------------|----------------------|---------------------------|
| (1217 N. Pearl S | | 7-5-71 | 9-30-71 | 26 | 94.0 | 34.4 | 1.50 | 96.0 |
| | 12.0 | 1-9-71 | 12-27-70 | 19 | 73 | 35.8 | 1.76 | NA |

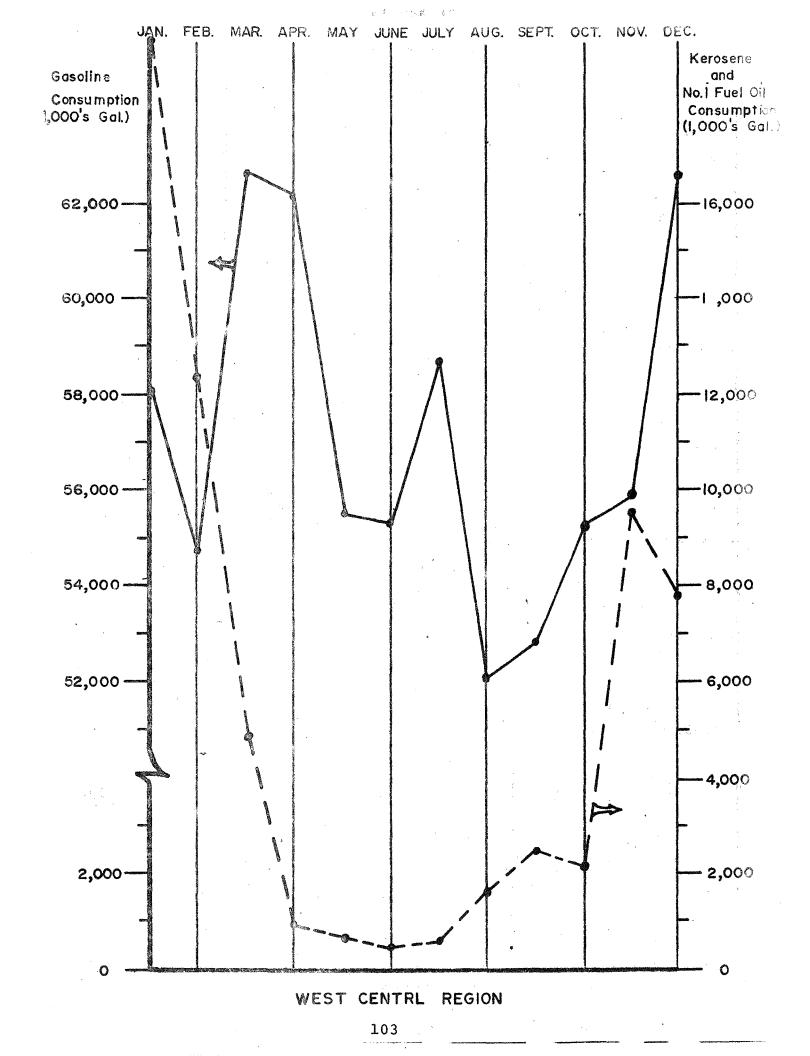
AIR QUALITY DATA SUMMARY -- MIAMI

NITROGEN DIOXIDE ug/m3

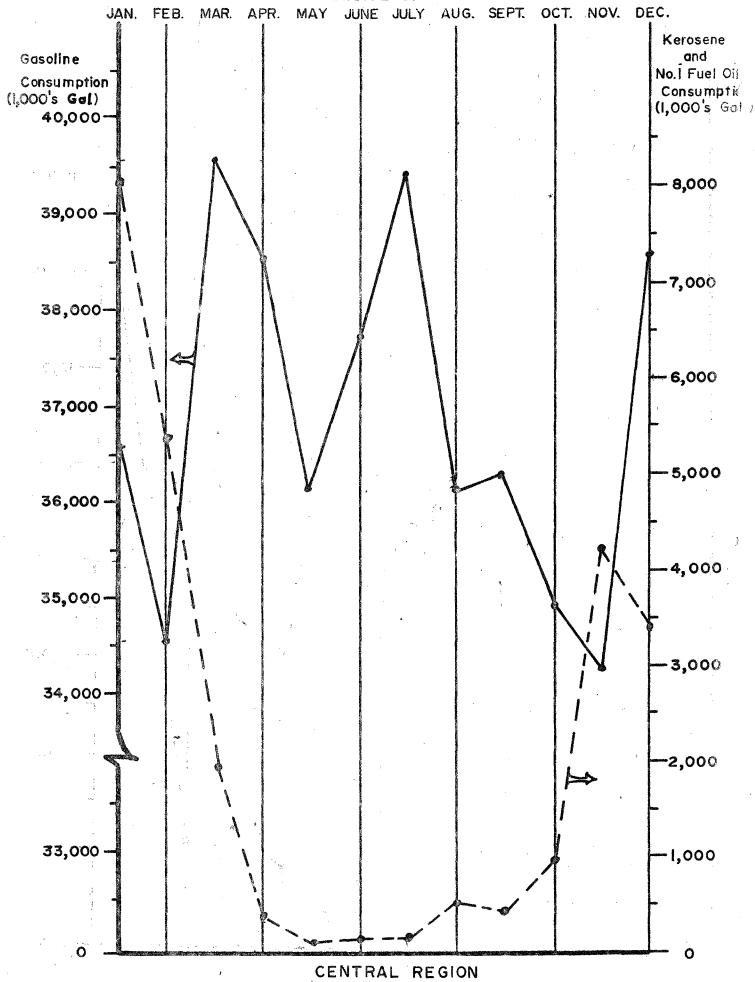
| UTM Location (1000's meters) | Sampling Interval (months) | Start Date | End Date | # of Samples | Arith Mean | Std. Dev. | Geo. S td. Dev. | Est. Annua Arith Mean |
|------------------------------------|----------------------------------|----------------|-------------|--------------|---------------|--------------|------------------------------|--------------------------|
| 864 N.W. 23 St. | | | ž | | | | | |
| 17-579.13-2853.4 | 3.0 | 7-7-71 | 9-30-71 | 28 | 140 | 92.1 | 1.52 | 132.0 |
| 17-579.13-2853.4 | 12.0 | 1 was 2 was 70 | 12-15-70 | 26 | 132 | 50.3 | 1.53 | NA |

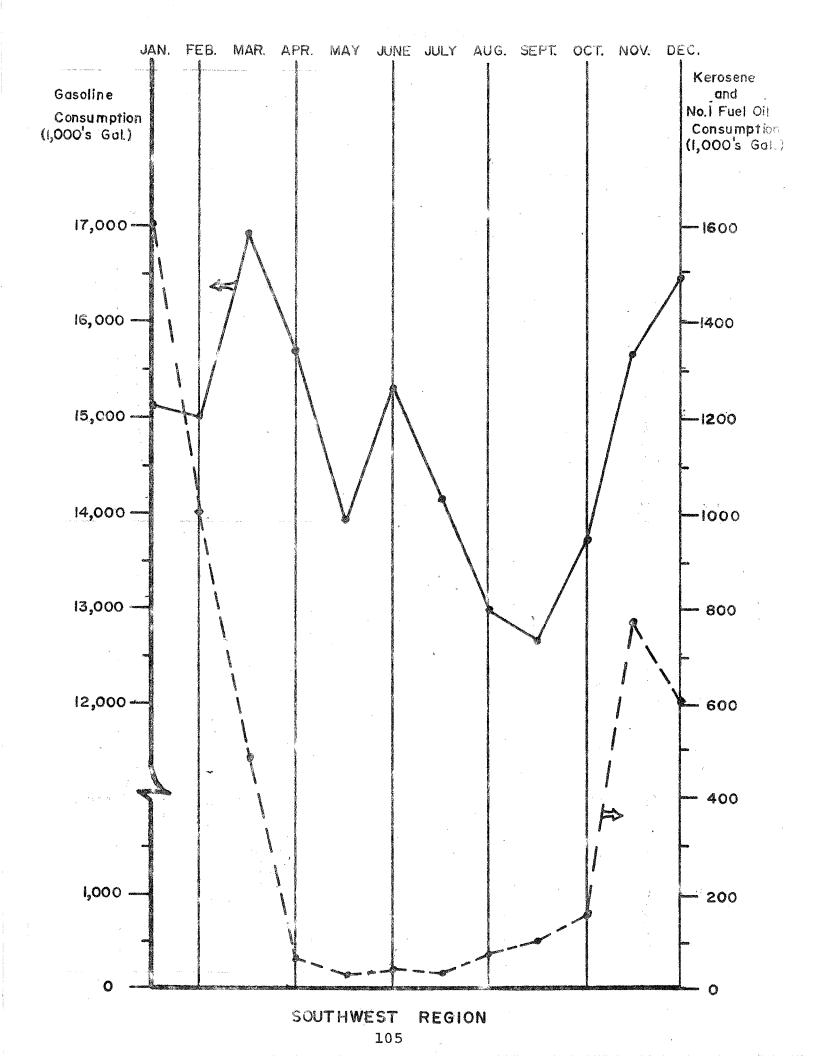


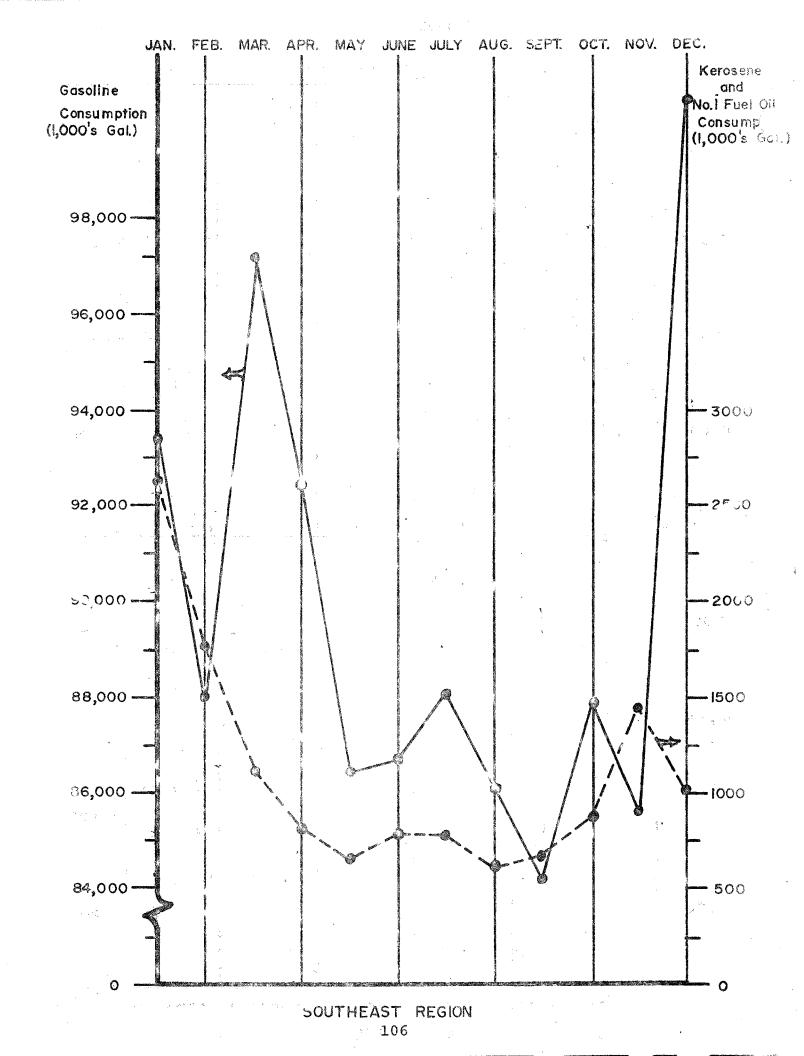




Sikuuke de







While the priority classification for particulate and sulfur dioxide is divided into three categories, that for carbon monoxide, nitrogen oxides and photochemical oxidants is divided only into two categories, the reason being that there is only one ambient air quality standard promulgated by EPA for these pollutants. These classifications are defined as Priority I or Priority III based on the air quality that was determined during the July-September 1971 period and according to the following criterion:

| Pollutant | Priority | Zarana da |
|--|--|---|
| | · · · · · · · · · · · · · · · · · · · | ······································· |
| | Equal to or greater than | Less than |
| Carbon Monoxide: 1 hour maximum 8 hour maximum | 55mg/m ³ (48 ppm) 14mg/m ³ (12 ppm) | 55mg/m ³ |
| | • | (1.1) |
| Nitrogen Dioxide: 24 hour average | 110ug/m ³ (0.06 ppm) | 110ug/m ³ (0.06 ppm) |
| Photochemical Oxidar 1 hour maximum | nts: 195ug/m ³ (0.10 ppm) | |

Based on this criterion and air quality measurements shown above, the priority classification of various regions for these pollutants is as shown below.

| | Priority Classification | | | | | | | | |
|--------------|-------------------------|-----------------------|--------------------------|-------------------|--|--|--|--|--|
| Region | Carbon Monoxide | Nitrogen P Dioxide | hotochemical Oxidants | Hydro carbons* | | | | | |
| Northwest | III | III | I | I | | | | | |
| Northeast | III | III | I | I, | | | | | |
| West Central | III | I | III | iii | | | | | |
| Central | III | III | III | · III | | | | | |
| Southwest | III | III | III | III | | | | | |
| Southeast | III | I | IIÏ | III | | | | | |

^{*}Classification with respect to hydrocarbons is the same as classification with respect to photochemical oxidants.

OVERALL PRIORITY CLASSIFICATION

| Region Par | ticulate | Sulfur Dioxide | | | | al Hydrocarbons |
|--------------|-----------|-------------------|-------|-----|-----|--------------------|
| | . | F | | | 44 | |
| Northwest | I* | I* | III | III | I | 1 |
| Northeast | I | II | III | III | I | I |
| West Central | I | I | III | I | III | III |
| Central | II | III | III . | III | III | III |
| Southwest | III | III . | III | III | III | III |
| Southeast | II | III | III | | III | III |

*Priority I because Alabama Portion is I

Example Regions:

Particulate - West Central Region Oxidants - Northeast Sulfur Dioxide - West Central Region
Nitrogen Dioxide - West Central, Northeast and Southeast Region

Example Region - Particulate

Before proceeding to select an example region and design emission rules and regulations, the concept of an example region should be understood. For analysis purposes, let us assume two counties, County A and County B adjoining each other. Let us assume to start with that there are no industries whatsoever in either county. The atmospheric dust loading is, for all practical purposes, from uncontrollable natural emissions such as pollen. Depending on wind direction, net interchange between the counties involves the same natural dust load which is uncontrollable. If these two counties are located in the same atmospheric region, the background dust load will tend to be the same in both counties.

As a second step, let us assume that County A has become industrialized whereas County B remains same. County A now contains sources which are natural and man made. It is obvious that County B, even though it does not have any man made sources within its boundaries, will experience a higher dust level composed partly of its natural sources and partly of "intrusion" from County A. If the wind direction changes, County A is subjected to some intrusion from County B even though County B has "uncontrollable" dust load within its boundaries. As a result, County A will experience a higher dust level which is made up of (i) natural dust emission, (ii) dust from the present emission within its boundaries and (iii) dust from the past emission which has travelled to County B and back to County A again.

As a third step, let us assume that both County A and County B are industrialized but County A is more industrialized than County B. Applying the foregoing dust level theory, County B will experience dust level intrusion to a greater degree from County A and County A will experience intrusion to a lesser degree from County B. No matter how hard these counties try to keep their emissions at a minimum, there is going to be an exchange of man made dust between the counties from either side.

In order to keep the dust level closer to natural conditions in both counties, it is obvious that County A has to do a better job of 'cleaning up' than County B. The amount of "clean up" will have to be reflected in total reduced emissions which will, in turn, reflect in reduced ambient concentrations of dust or any other pollutant.

The concept of example region selection is based on the worst air quality region. By designing rules and regulations which will meet the ambient air quality standard and applying those rules and regulations to other regions will only result in a better air quality in those other regions.

The example region for particulate matter is the West Central region which comprises Citrus, Hardee, Hernando, Hillsborough, Levy, Manatee, Pasco, Pinellas, Polk and Sumter counties. The total annual particulate emission for the region, as accounted from the permit applications is 70,075 tons, of which 20,125 tons are from Hillsborough County and 24,053 tons from Polk County. Of the ten counties in the region, Hillsborough County has recorded higher ambient concentrations (see section on priority classification); for ready reference, data summary on stations which recorded higher concentrations in Hillsborough County are given on the following page with their locations shown in Figure 51 and major industries located in Tampa and Hillsborough County in Figures 52 and 53 with company name listed in Table VIII.

This data summary based on 1970 air quality measurements in Hillsborough County and the emission inventory accounted for from permit applications indicated a discrepancy in the total emissions. Obviously there were some additional emissions which perhaps occurred intermittently but not accounted for in the emission inventory. A field investigation revealed that there were additional emissions from phosphate loading terminal facility, from the start up and closing down of some industrial operations such as in Florida Steel Company and Florida Portland Cement Company and from upset conditions that often occur in power plants during summer months due to frequent peaking conditions. Figures 54 through 57 show some of this additional emission. Consequently, the following is the breakdown of the total estimated annual particulate emission in Hillsborough County.

| Source | | Tons/yr. |
|--------------------------|--------|----------|
| 1. Transportation | | 2232.9 |
| 2. Fuel Burning | | 1054.4 |
| 3. Miscellaneous Sources | | |
| Forest Fires | 1282.7 | |
| Agricultural Fires | 262.2 | |
| Grove Protection | 2001.0 | |
| | 3545.9 | 3545.9 |

AIR QUALITY DATA SUMMARY - TAMPA

PARTICULATE MATTER (ug/m³)

| UIM Location (10 ³ Meters) | Sampling Interval | Start Date | End Date | # of Samples | Maximum 24 hrs | Std. Dev. | Annual Geo. Mean | Geo. Std. Dev. |
|---|----------------------|---------------|-------------|-----------------|-------------------|--------------|---------------------|-------------------|
|) 17-357.3-3092.3 | 13 months | 1-1-70 | 12-30-70 | 26 | 167.0 | 34.89 | 86.9 | 1.52 |
|) 17-352.9-3091.3 | 12 months | 1-1-70 | 12-30-70 | 26 | 235.9 | 49.95 | 95.1 | 1.57 |
|) 17-364.9-3093.1 | 12 months | 1-1-70 | 12-30-70 | 2.6 | 197.4 | 37.48 | 90.0 | 1.46 |
| 0) 17-356.8-3092.1 | 12 months | 1 = 1 = 70 | 12-30-70 | 26 | 188 4 7 | 37.42 | 79.0 | 1.45 |
| 3) 17-357.0-3090.0 | 12 months | 1-1-70 | 12-30-70 | 26 | 234.5 | 50.05 | 104.3 | 1 4 6 3 |

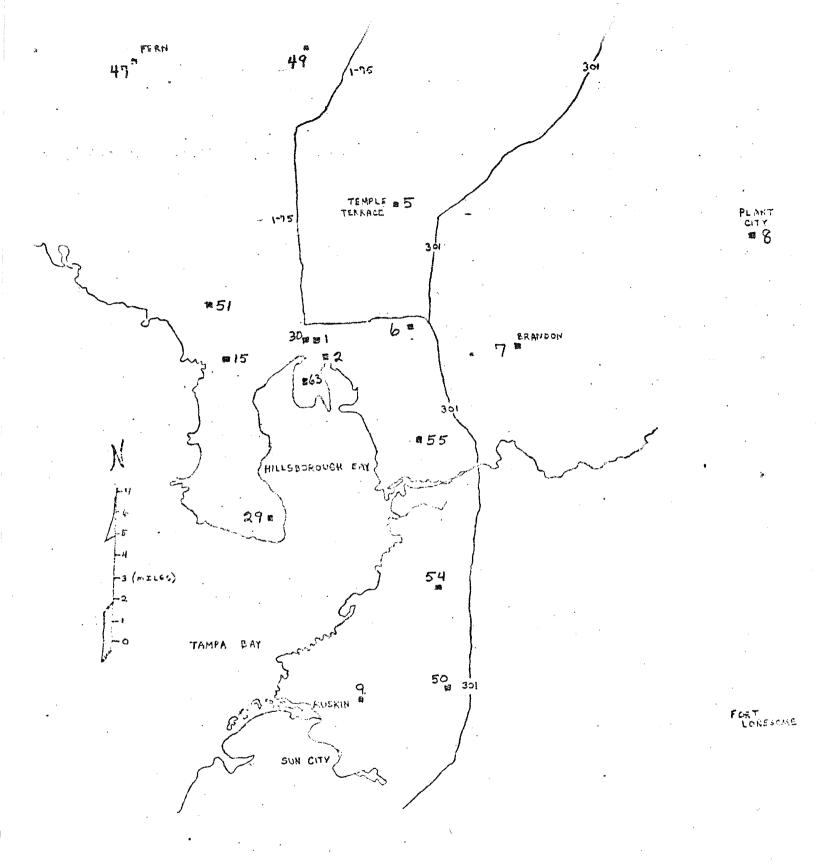
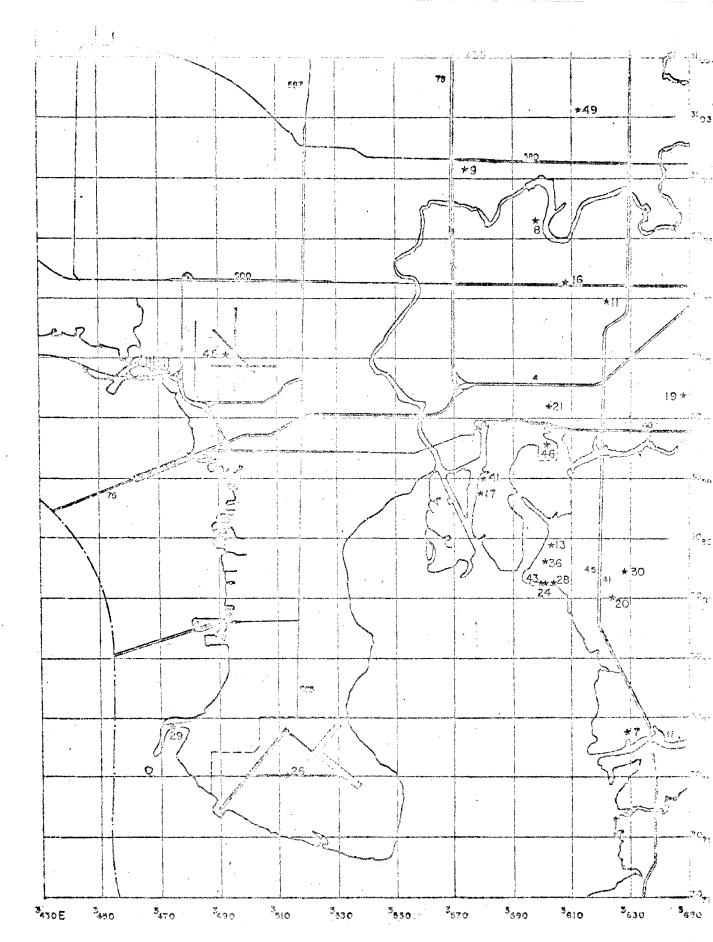
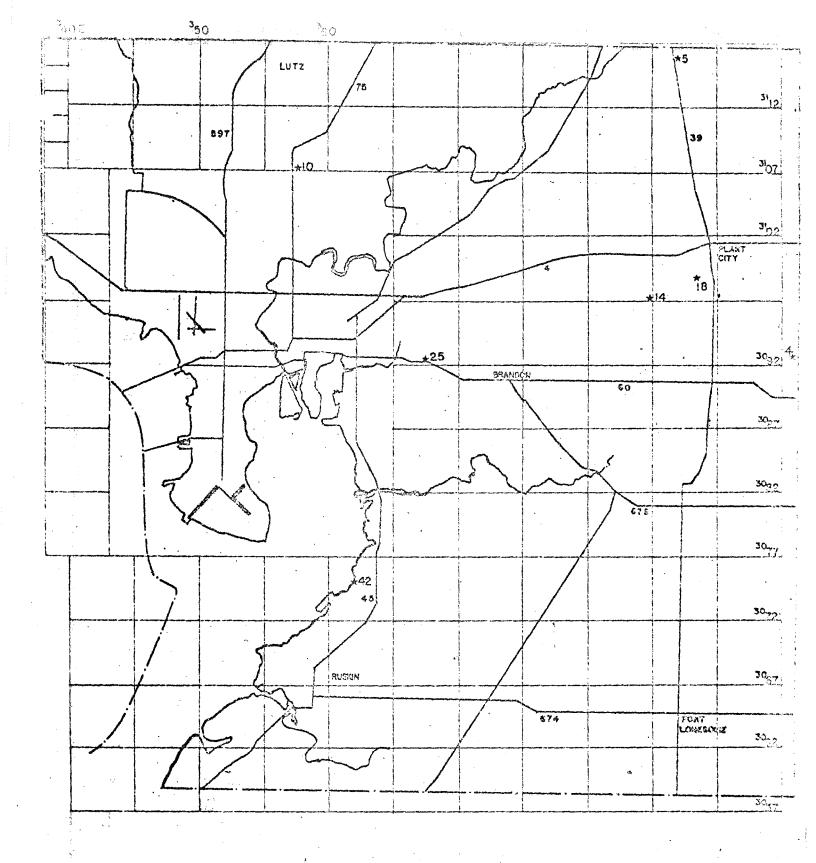


Figure 51
AIR POLLUTION SAMPLING STATIONS 1969-1970

SUSPENDED PARTICULATES



Point Sources
Suspended Particulates
Tampa
Figure 52



Hillsborough County
Particulate
Point Sources
Figure 53

TABLE VIII

$\underline{\mathtt{H}} \ \underline{\mathtt{L}} \ \underline{\mathtt{L}} \ \underline{\mathtt{S}} \ \underline{\mathtt{B}} \ \underline{\mathtt{O}} \ \underline{\mathtt{R}} \ \underline{\mathtt{O}} \ \underline{\mathtt{U}} \ \underline{\mathtt{G}} \ \underline{\mathtt{H}} \quad \underline{\mathtt{C}} \ \underline{\mathtt{O}} \ \underline{\mathtt{U}} \ \underline{\mathtt{M}} \ \underline{\mathtt{T}} \ \underline{\mathtt{Y}}$

| Map Code | | | Partic- | |
|------------|---|--------------|---------|-------------|
| Number | Name of Source | UTM Grid | ulates | <u>so</u> 2 |
| . 1 | American Can Co. | 58.95-92.85 | | |
| 2 | Importan Lacquer & Solvents | 59.35-97.75 | | |
| 3 | American Oil | 57.95-90.15 | | 0 |
| 4 | The Borden Co. (Plant City) | 96.18-93.00 | 0 | |
| 5 | Central Phosphates, Inc. (SA) | 87.00-116.00 | | X0 |
| 6 | Chevron Asphalt | 58.40-92.38 | | 0 |
| 7 | Cities Service Co. | 62.95-82.50 | 0 | X |
| 8 | City of Tampa Waterworks | 59.71-99.62 | ŏ | 0 |
| 9 | Concrete Products Co. | 57.43-101.43 | | • |
| 10 | Cone Brothers Contracting (12th Street) | 57.73-107.29 | | 0 |
| 11 | Cone Brothers Contracting (Osborne) | 62.19-96.93 | X, | 0 |
| 12 | Continental Can | 60.85-93.15 | | † |
| 13 | Fastern Associated Terminals | 60.27-88.83 | X | |
| 14 | Edgar Plastic Kaolin, Co. | 84.80-97.28 | X | |
| 15 | Edwards Hospital | 50.38-96.49 | | 0 |
| 16 | Feeds for Florida | 60.85-97.46 | х | |
| 17 | Florida Portland Cement | 57.89-90.61 | X | 00 |
| īė | Florida SIP | 88.25-98.92 | X | 0 |
| īş | Florida Steel Corp. | 54.81-93.80 | x | |
| | GAF Corporation | 62.40-87.00 | X | |
| 21 | Grace & Co., W.R. | 60.25-93.35 | x | |
| 22 | Harris Paint Co. | 58.45-92.78 | 24 | |
| 23 | Humble Oil | 61.87-86.90 | | |
| 24 | International Mineral Corp. | 60.20-87.30 | x | |
| 25 | Kaiser Agricultural Chemicals | 67.32-92.60 | X | |
| 20 | MacDill AFB | 51.25-81.00 | 0 | 0 |
| 27 | Mary Carter Industries, Inc. | 50.80-103.06 | | , v |
| 23 | Mi. ral Aggregates, Inc. | 60.45-87.45 | x | |
| 29 . | National Gypsum (both) | 47.45-82.48 | X | |
| 37 | Nitram, Inc. | 62.80-87.90 | X | X. |
| 21 | Oak Park Cleaners | | Α | Ô |
| 23 | | 59.98-94.38 | | ŏ |
| 33 | Peter O'Knight Airport | 57.30-88.36 | | U |
| 3.3 3.4 | Plant City Airport | 85.90-97.57 | | |
| 25 | Reynolds Metals Co. | 60.63-103.33 | | |
| 36 | Robbins Lumber Serbeard Coastline R.R. | 57.54-105.03 | | |
| -1 v | | 60.12-88.25 | Х | Α . |
| | Standard Oil Co. | 48.59-82.60 | • . | 0 |
| 3P | Swar Rose Canning Co. | 89.75-99.51 | | 0 |
| . 23 | Fullur Terminal Swift & Co. | 57.78-89.92 | | 0 |
| 40 | | 52.65-86.81 | ^ | 0 0 |
| 41 | Tampa Electric (Hooker's Pt.) | 58.00-91.00 | 0 | |
| 4.2 | Tampa Electric (Big Bend) | 61.95-75.00 | 0 | 0 |
| 43 | Tampa Electric (Gannon) | 60.00-87.55 | 0 | . 0 |
| · · · | Tampa Ceneral Hospital | 56.45-90.98 | | 0 |
| 45 | Tampa International Airport | 49.32-95.12 | 0 | 0 |
| 46 | Tampa Incinerator | 60.19-92.21 | X | X |
| 47 | Tampa Sand & Material | 57.28-91.69 | | 0 |
| 48 | Texaco Terminal | 58.32-91.81 | · · | 0 |
| 49 | Thatcher Glass | 61.23-103.34 | Х | ^ . |
| 50 | Union 75 | 58.09-89.24 | | 0 |
| 51 | University of South Fla. | 60.85-105.04 | | ^ |
| 52 | Weyerhauser Co. | 60.52-94.78 | | |
| ** * | X Process Loss | 0 Fmel Use | | |

| Source | | | Tons/yr. | | | |
|--------|--|-----------------------------------|---------------------------------------|--|--|--|
| 4. | Solid Waste Dispo Incineration Open burning Area Sources | 1769.0 383.0 58.0 2210.0 | 2210.0 | | | |
| 5. | Process Emissions | 5 | 5273.0 | | | |
| *6. | Power Plants: TECO Cannon TECO Big Bend TECO Hooker's E | | 11,470.5 | | | |
| *7. | Unaccounted (Fugi Dust Florida Steel Cor Florida Portland Ship Loading Term of Tampa) | e): Tporation Cement Co. | 7,500 3,000 <u>7,000</u> | | | |
| | TOTA | L EMISSIONS | 43,286.7 Tons/yr. | | | |
| | * See Explanation | n below: | · · · · · · · · · · · · · · · · · · · | | | |

Explanation

Item 6: Gannon Power Plant Operation-1970:

| Unit | Part./day,1bs. | Days/yr | Emission/yr tons | | |
|------|----------------|---------|---------------------|--|--|
| #1 | 4990 | 311.57 | 777.36 | | |
| #2 | 5330 | 329.31 | 877.62 | | |
| #3 | 3170 | 297.19 | 471.04 | | |
| #4 | 3040 | 334.90 | 509.10 | | |
| #5 | 2380 | 338.52 | 402.84 | | |
| #6 | 50,700** | 246.09 | 6238.30 | | |
| | | | 9276.26 | | |

^{**} Unit operating at a much lower efficiency.

Item 7: Unaccounted Dust - Explanation

(i) Florida Steel Corporation:-

Estimated emission from building openings, etc. - 7,500 tons/yr.

Item #7 continued:

Explanation:

Material balance (figures from permit application)

- a) Raw material utilized 580 tons/day of scrap metal
- b) Products 550 tons/day of steel billets
- c) Particulates collected in control equipment 11,300 lbs/day
- d) Material emitted through stacks 1,250 lbs/day
- e) Unaccounted material Allowards a-b-c-d = 47,450 lbs/day

After observing the Florida Steel Corporation plant during operation (Figure 54), it was determined that the unaccounted material escapes when metal is being charged. The building enclosing the operation has many openings and large doors which are kept open thus allowing large quantities of dust to escape. It was estimated that 15-20% of the unaccounted material was settleable within the plant boundaries. The remainder is discharged as fugitive dust which constitutes approximately 7,500 tons/yr.

- (ii) Ship Loading Terminal Port of Tampa:
 - (a) 1970 Dry Phosphate Loading 12,734,914 tons At 0.05% (or 1 lb/ton) of fugitive dust emission = (12,734,914) ($\frac{1}{2000}$)

= 6369 tons

(b) 1970 Grain Loading
At 0.01%, fugitive
dust emission = (154,228) (0.2)
2000

= 15 tons

(c) Milortanite Loading - 81,000 tons At 10#/ton, fugitive dust emission = (81,000) (10) 2000

= 405 tons

(d) Miscellaneous emissions = 211 tons (estimated)

Total (a) + (b) + (c) + (d) = 7,000 tons

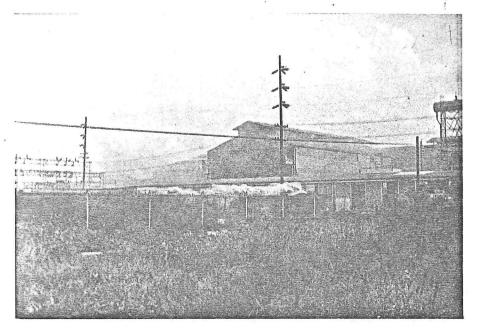


FIGURE 54 — FLORIDA STEEL CORPORATION NOTE: ORANGE IRON DUST

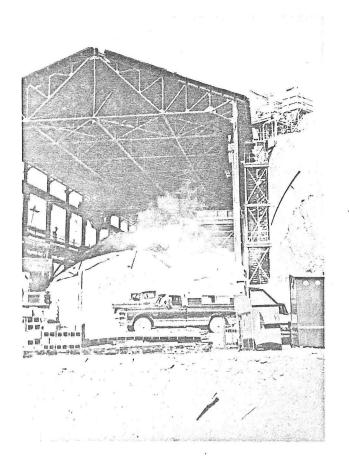


FIGURE 55 — FLORIDA PORTLAND CEMENT

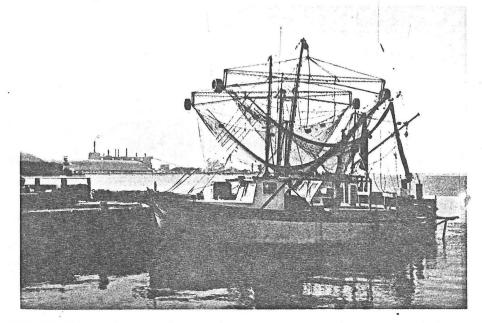


FIGURE 56 — TECO'S GANNON STATION, DURING UPSET (BACKGROUND)

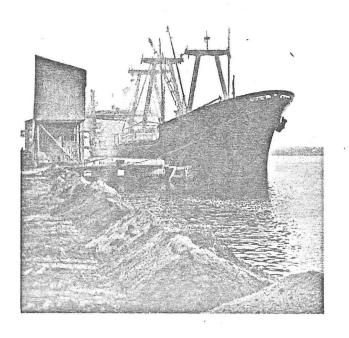


FIGURE 57 — I.M.C. SHIP LOADING TERMINAL

(iii) Florida Portland Cement Co:

Emission quantities reported in Permit applications account for only trace quantities from such operations as bulk loading, conveyor systems, finish mills and packing operation. Upon visit and observations at these operations, the dust emissions were believed to be much more than trace, as reported. An estimate of these emissions is given below:

(a) Production capacity - approximately 3368 tons/day

Assume 0.25% emission from above combined operations - Estimated emission

(33.0) (3.00.00.25)

- = 2800 tons/yr.
- (b) Emissions from cold start up (estimated)=200 tons/ yr.

Total (a) + (b) = 3000 tons/yr.

Particulate Control Strategy:

As can be seen from the emission inventory, unaccounted fugitive dust emission accounts for a major portion of the emission, 40.4 percent (17,500 tons/year) followed by power plants with 26.5 percent contribution (11,470 tons/year). Process emissions account for the third biggest share with 12.2 percent in emissions. Miscellaneous sources emit 8.2%, approximately two-thirds of which are from grove protection. Transportation and solid waste incineration come in next with each category contributing approximately 5.2 percent to the total and fuel burning comes in last with 2.4 percent contribution.

Of these emissions, the contribution from the miscellaneous sources and solid waste disposal is expected to decrease significantly with the adoption of new rules on open burning and citrus grove heating and with intended change in the allowable grain loading to 0.1 grain instead of 0.2 grains as presently allowed for incinerators.

Attention was centered on the three major categories in control strategy testing. A total of 11 control strategies was tested in the Strategy Testing exercise. These are:

A. Fugitive (unaccounted) Dust:

- Strategy 1: 70 percent reduction in the fugitive dust emission with appropriate rules.
- Strategy 2: 80 percent reduction in the fugitive dust emission with appropriate rules.
- Strategy 3: 90 percent reduction in the fugitive dust emission with appropriate rules.

B. Power Plants

- Strategy 4: Limit power plant emissions to 0.3 lb. per million BTU heat input per hour.
- Strategy 5: Limit power plant emission to 0.2 lb. per million BTU heat input per hour.
- Strategy 6: Limit power plant emission to 0.15 lb. per million BTU heat input per hour.
- Strategy 7: Limit power plant emission to 0.10 lb. per million BTU heat input per hour.
- Strategy 8: Limit power plant emission to 0.05 lb. per million BTU heat input per hour.

It should be noted at this point that in the proposed "Standards of Performance for New Sources" released by EPA in August 1971 (Federal Register, Vol 36, No. 159, dated August 14, 1971), the proposed emission limit for fossil fuel fired steam generators of a capacity more than 250 million BTU heat input per hour is 0.2 lbs. of particulate matter per million BTU heat input per hour. Efficient electrostatic precipitators are presently available in the market to achieve such an emission limit. In the case of power plants in Hillsborough County, some existing power plants already have better controls. emissions as reported by the Company in their permit applications vary from as low as 0.013 lbs. and for most of their oil fired units at 0.041 lbs. per million BTU heat input per hour. Because a significant portion of total particulate emission (excluding the 'upset' condition) is from these power plants and because of the need for further emission reduction in Hillsborough county, strategy calculations were performed respectively at 0.3, 0.2, 0.15, 0.10 and 0.05 lbs per million BTU heat input per hour.

C. Process Emissions

Strategy 9: Application of proposed EPA process weight table on all industrial sources.

Strategy 10: Limit exhaust grain loading to 0.08 grains per standard cubic foot.

Strategy 11: Limit exhaust grain loading to 0.05 grains per standard cubic foot.

With these 11 specific control strategies developed, a total of 45 (=3x5x3) separate combinations of control strategies can be performed. Following is the summary of the 11 main control strategy testing exercise.

| Strategy No. | Emission Reduction, Tons/yr. | Emission Reduction Percent Total |
|--|---|--|
| l only 2 only 3 only 4 only 5 only 6 only 7 only 8 only 9 only 10 only | 12,250 14,000 15,750 *5661.2 + 72.5=5733.7 *5661.2 + 774.2=6435.5 *5661.2 + 1166.9=6828.2 *5661.2 + 1746.9=7408.1 *5661.2 + 3346.0=9007.2 1006.3 927.8 1364.3 | 28.3 32.3 36.4 13.2 14.9 15.8 17.1 20.8 2.3 2.1 |
| | · · · · · · · · · · · · · · · · · · · | |

*Excessive emission not accounted for in permit application -

It should be mentioned that in calculating these emission reductions, if a source is presently operating at less emission than the control strategy in question would allow, that source was assumed to continue to operate at the same emission level and thus was excluded in calculations. This procedure was followed consistently in all these calculations.

Combination of control stretegy numbers 3,7 and 9 was selected as the control strategy to be applied to bring about the desired emission reduction.

(a) It is very obvious that strict controls should be exercised on fugitive dust emission since fugitive dust sources are the biggest contributors to the total emission. Selection of Control Strategy No. 3, (90% reduction) still allows 10 percent emission which is considered very reasonable.

A decrease of 90% will be accomplished by applying the fugitive particulate restriction in Chapter 17-2 F.A.C. Some equipment which could be installed to reduce fugitive dust loading are:

- (1) Enclosed conveying systems with ventilation through a control device such as a bag-house.
- (2) Enclosed material transfer points with control equipment.
- (3) Enclosed storage silos or building with ventilation through a control device.
- (4) Open storage piles are not allowed.
- (5) Buildings in which dusty operations occur must be properly ventilated through a control device with NO openings where particulates may escape.
- (b) The second biggest contributor to particulate emission is the power plants. As the attached table (Table IX) will show, many units presently are operating at less than 0.1 lbs. per million BTU heat input per hour. There is no reason why all the units could not operate around this emission limit with installation and proper maintenance of control equipment. In view of this, therefore, Control Strategy No. 7 is considered very reasonable.

It is also apparent from Table IX that TECO's Gannon Station - Unit #6 is operating around 1 lb. of particulates per million BTU heat input. Preliminary results of recent stack sampling tests were obtained from a TECO representative to determine this figure. Collector efficiencies of Unit #6 were reported to range from 85.7% to 94.9% where the efficiency reported in the permit application was 98.5%. Company representatives indicate that the presently existing electrostatic precipitator will be replaced before mid 1975. The resulting emissions

| and a second of the second of | | | | | | | | | | | | |
|---|---------------------|-------------------------|--------------------------|---------------------------------------|------------|---------------------|-----------|-----------|------------|------------------------|---------|-------------|
| Source | Operation (Days/yr) | Type of fuel used | Quantity of fuel (Daily) | Heat Input capacity mill BYU/hr | Present Er | missions tons/vr | Allowable | Emissions | s, lbs/mil | llion BTU 0.151bs/ | 0.115s/ | Tolcaiés/ T |
| TECO | 10013/11 | | 1 (1022) | | | 10011117 | 10.3222 | | | | - | |
| Hookers Point Unit l | 199 | ∜6 fuel oil | 123,700 lb. | 95.0 | 123.6 | 12.3 | 681.0 | 567.0 | 454.0 | 340.5 | 227.0 | 113.5 |
| TECO Hookers Point Unit 2 | 202 | #6 fuel oil | 129,700 lb. | 103.0 | 134.7 | 13.6 | 744.0 | 620.0 | 496.0 | 372.0 | 248.0 | 124.0 |
| TECO Hockers Point Unit 3 | 290 | #6 fuel_oil | 255,000 lb. | 195.0 | 215.9 | 31.3 | 1407.0 | 1172.5 | 938.0 | 703.5 | 469.0 | 234.5 |
| TECO Hockers Point Unit 4 | 292 | #6 fuel oil | 265,000 | 203.0 | 223.3 | 32,6 | 1458.0 | 1215.0 | 972.0 | 729.0 | 486.0 | 243.0 |
| TECO Hookers Point Unit 5 | 348 | #6 fuel oil | 383,000 | 293.0 | 334.5 | 58.2 | 2109.0 | 1757.5 | 1406.0 | 1054.5 | 703.0 | 351.5 |
| TICO Hookers Point Unit 6 | 361 | #6 fuel oil | 616,000 | 472.0 | 511.4 | 92.3 | 3396.0 | 2830.0 | 2264.0 | 1698.0 | 1132.0 | 566.0 |
| TECO Big Bend Unit #1 | 365 | Coal | 5745,000 lb. | 2713.0 | 13,200 | 1980.0 | 19,530.0 | 16,275 | 13,020.0 | 9765.0 | 6510.0 | 3255.0 |
| TECO Gannon Station Unit 1 | 311.57 | Coal | 1,770,000 lb. | 837.5 | 4990.0 | 777.36 | 6030.0 | 5025.0 | 4020.0 | 3015.0 | 2010.0 | 1005.0 |
| TECO Gannon Station Unit 2 | 329.31 | Coal | 1847000 lb. | 875.0 | 5330.0 | 877.62 | 6300.0 | 5250.0 | 4200.0 | 3150.0 | 2100.0 | 1050.0 |
| TECO Gannon Station Unit 3 | 297.19 | Coal | 2,690,000 lb. | 1275.0 | 3170.0 | 471.04 | 9180.0 | 7650.0 | 6120.0 | 4590.0 | 3060.0 | 1530.0 |
| TECO Gannon St <u>ation Unit 4</u> | 334.9 | Coal | 2900,000 1b. | 1371.0 | 3040.0 | 509.1 | 9870.0 | 8225.0 | 6580.0 | 4935.0 | 3290.0 | 1645.0 - |
| TECO Gannon Station Unit 5 | 338.52 | Coal | 3,630,000 1b. | 1721.0 | 2380.0 | 402.84 | 12,390.0 | 10325.0 | 8260.4 | 6195.0 | 4130.0 | 2065.0 |
| TECO -Gannon Station Unit 6 | 246.09 | Coal | 4A40000 lb. | 2104.0 | 50,700.0 | 6238.3 | 15,150.0 | 12625.0 | 10106.0 | 7575.0 | 5050.0 | 2525.0 |

TABLE IX

decrease will be approximately 5000 tons/yr. The remaining excessive emissions reduction will be accomplished by improved maintenance and surveillance.

(c) Proposed EPA Process Weight Table is based on the availability of "reasonable control technolology". This Process Weight Table when compared with the Existing Process Weight Table in Chapter 17-2, Florida Administrative Code, allows emissions of a lesser value for a unit rate capacity which is less than 400,000 lbs. per hour. However, for unit rate capacity of 400,000 lbs. per hour and above, this table allows an increased emission. Even though the net reduction by the application of this EPA Process Weight Table is only 2.3 percent in Hillsborough County, application of this Table throughout the state will bring about a much needed emission reduction in other counties. Compliance with this Table is certainly possible with the advancement of control technology which is presently available.

With the selection of Control Strategy No. 3, 7, and 9 and with the expected emission reduction with the adoption in 1971 of regulations on Open Burning and Citrus Grove Heating and with the expected emission reduction from transportation sources and incinerators, the net emission reduction achieved is 63.3 percent.

| | Andrew State | | , | Est | timated |
|-------|--|---------|-------------------|--------------|----------|
| (i) | Emission Reduction from Transportation Sources | | ; | | tons/yr. |
| (ii) | Emission Reduction from Incinerators | | malekud Güyeve | 885 | tons/yr. |
| (iii) | Emission Reduction from Open Burning | | == | 200 | tons/yr. |
| | Emission Reduction from Citrus Grove Heating | | == | 1500 | tons/yr. |
| | | | | ************ | · |
| | | | | 3,331 | tons/yr. |
| | , | or 7.7% | of | total | l · |
| | Control Strategy No. 3 | 36.4% | of | total | L |

Control Strategy No.7

17.1% of total

Control Strategy No.9

2.3% of total

63.5%

Based on the 1970 air quality data in Hillsborough County, the needed emission reduction is

 $\frac{104.3-60}{104.3-29}$ = 58.8 percent

where

104.3 ug/m³ is the maximum geometric mean value

60.0 ug/m³ is the air quality standard

29.0 ug/m³ is the rural background geometric mean value in Hardee County (West Central Region)

As for emission growth from newly added sources in Hillsborough County, it was determined from construction permits that Tampa Electric Co. is building a second unit at their Big Bend site. The following calculations show the result of this addition.

TECO - Big Bend #2 Unit:

Construction permit issued September 1, 1970

To Complete

April 1, 1973

Bituminous coal at the rate of 338,900 lbs/hour

Heat Value = 13,100 BTU/lb. (26.2 x 10^6 BTU/ton)

Total heat input capacity = (13,100)(338,900)

= 4440 million BTU/hour

Assume: 24 hours/day and 350 days/year operation

Allowed Particulate Emission from this facility

=
$$(4440)$$
 (0.1) (24) (350) $(\frac{1}{2000})$
= 1865 tons/yr.

Total Particulate Emissions for Hillsborough County =

| · | 43287 | tons yr. |
|---|-------|-------------|
| | | |

| | | | yr. |
|--------------|--|----------------------|--|
| Strategy 7: | Emission Reduction not accounting for Big Bend #2 Unit | | 7408 tons/yr or 17.1% Reduction |
| Strategy 7: | Net Emission Reduction accounting for Big Bend #2 Unit | Austria Janes | 5543 tons/yr. or 12.8% Reduction |
| Strategy 3: | Emission Reduction | | 36.4 |
| Strategy 7: | Emission Reduction | | 12.8 |
| Strategy 9: | Emission Reduction | æ | 2.3 51.5% |
| | uction from Transportation, , Open Burning, and Citrus g | verside . verside | 7.7% |
| Total Expect | 22 | 59.2% | |
| Needed Emiss | ion Reduction | arrande. Spinale. | 58.8% |
| Cus | hion | | 0.4% |

It would appear that no new sources could be added. However, this assumption is derived from the roll back technique applied to the whole county as outlined above, and therefore cannot be ascertained with certainty since each source may not affect the whole county. Therefore, an air quality diffusion modeling exercise is planned for this county since such a study will enable determination

of a zone of influence of each source. Until such time that this is done, it is planned to write the rules governing the addition of new sources in such a way that will allow the addition of a new source upon the evidence that such source will not cause the ambient level to exceed the standard at any time (see section on rules and regulations). Also, the Florida Department of Pollution Control Board has adopted a no-growth policy until diffusion studies can be done and determined otherwise.

Dade, Broward and Palm Beach Counties:

The proposed ambient air quality standard on particulate matter for Dade, Broward and Palm Beach Counties is:

| Annual Geometric Mean | 50 ug/m^3 |
|-------------------------------|-----------------------|
| Maximum 24 hour concentration | 180 ug/m ³ |

Of the total annual particulate emission of 37,241 tons from the Southeast Region, 30,403 tons (81.6%) are from these three counties. The breakdown of this 30,403 tons are as follows:

| Fuel Combustion | $\frac{\text{Tons/yr}}{7375}.$ | Percent 24.3 |
|-----------------------|--------------------------------|---------------------|
| Power Plants | 2721 | 9.0 |
| Process Emissions | 9822 | 32.3 |
| Solid Waste Disposal | 2788 | 9.2 |
| Transportation | 7067 | 23.2 |
| Miscellaneous Sources | 628 30,403 | $\frac{2.0}{100.0}$ |

Power plants and process emissions which account for 41.3% of the total will be reduced significantly with the particulate regulations derived from the control strategy testing exercise. Emissions from transportation and solid waste disposal which account for 32.4 percent is also expected to decrease significantly with the anticipated reduction of automobile particulate emission and with the proposed emission limit of 0.1 grain instead of presently allowed 0.2 grains per standard cubic foot for incinerators. Fuel combustion accounts for 24.3% of the total. Almost all of which (23.7% of total) is

from uncontrolled sugar cane processing bagasse boilers. Applying the applicable regulations for steam generators would have the approximate reduction of 90%+ for these sources and thus bring about a significant reduction in total emissions.

The total anticipated reduction in emissions will be more than sufficient to keep the air quality at the above levels.

CONTROL STRATEGY - PARTICULATE POLK COUNTY

As seen from the emissions inventory, Polk County is the second largest contributor of particulates in the West Central Florida A.Q.C.R. Of the 24053.58 tons/yr. of particulates, a large portion is emitted from sources which are subject to control. These sources include phosphate rock driers, citrus peel driers and grove protection fires.

Applying the control strategies chosen for Hillsborough County, the following % reduction in emissions ie expected.

- 1. Process Emission Reduction
 - % reduction = Quantity of Emissions reducedx100%
 Total Present Emissions

$$= \frac{11,010.6 \times 100\%}{24053.58} = 45.7\%$$

- 2. Reduction from power plant is not expected since they are presently performing at better than 0.1 lbs. particulate/million BTU input.
- 3. The estimated emission reduction expected from grove protection fires, incinerators, and transportational sources is 8.6%.
 - a. % reduction from grove protection

$$\frac{2577.0-644.25}{24053.6} \times 100\% = 8.04\%$$

b. % reduction from transportation $\frac{113.4 \times 100\% = 0.5\%}{24053.6}$

c. % reduction from incinerators

 $\frac{15}{24053.6} \times 100\% = 0.06\%$

The total expected emission reduction achieved in Polk County is 54.38%.

Sulfur Dioxide Control Strategy:

The example region for sulfur dioxide is the West Central Region and again Hillsborough County. Total annual sulfur dioxide emission from all ten counties in the region accounted for 504,500 tons in 1970 of which 314,173 tons are from Hillsborough County and 75,051 tons from Polk County. A breakdown of the total emissions into various source categories is given below for Hillsborough County.

| Source Category | Tons/yr. | Percent |
|-----------------------|----------|---------|
| Power Plants | 277,493 | 88.32 |
| Process Losses | 22,437 | 7.14 |
| Fuel Combustion | 8,191 | 2.61 |
| Transportation | 3,542 | 1.13 |
| Solid Waste Disposal | 1,537 | 0.49 |
| Miscellaneous Sources | 972 | 0.31 |
| TOTAL | 314,173 | 100.00 |

Hillsborough County has recorded higher ambient concentrations of sulfur dioxide than the remaining counties in the region. A data summary of stations which recorded higher concentrations are given in Table VII with their locations shown in Figure 58 and major industries located in Tampa and Hillsborough County in Figures 59 and 60 with point source names listed in Table X.

AIR QUALITY DATA SUMMARY - TAMPA

| SUL | FUR DIOXIDE | | ppb | | | | | | | |
|------------|-----------------------------|---|---|-----------------|---------------------------|-----------------|------------------|--------------------------|--------------|----------------------|
| UPM Loc | ation | | Sampling Interval (months) | Start Date | End D _i ate | # of Samples | Max. 24 Hours | Annual Arith. Mean | Std. Dev. | Geo. Std. Dev. |
| 1.) | 17-357. 3- 3092.3 | and the second second second | 1.2 | 1-1-70 | 12-30-70 | 26 | 35.0 | 77 . O | 8.54 | 69.57 |
| 29) | 17-354.9- 3079.5 | of Complete Manager (Complete Manager) | 12 | Jane 1 was 70 | 12-30-70 | 1.35 | 66.3 | 8 , 75 | 11.68 | 2.36 |
| 31) | 17-396- 3114 | ning a same of same | 1 2 2 and 1 2 | 1-1-70 | 12-30-70 | 358 | 40.0 | 3.5 | 5.53 | 44.89 |
| 55) | 17-365.4- 3085.6 | mat still de produce de la constante de la cons | 12 | Towns Towns 7 0 | 12 - 30 - 70 | 157 | 66.0 | 7 . 5 | 9.41 | 3.20 |
| 63) | 17-357.0- 3090.0 | | 12 | 1-1-70 | 12-30-70 | 131 | 239.8 | 18.11 | 26.41 | 18.49 |

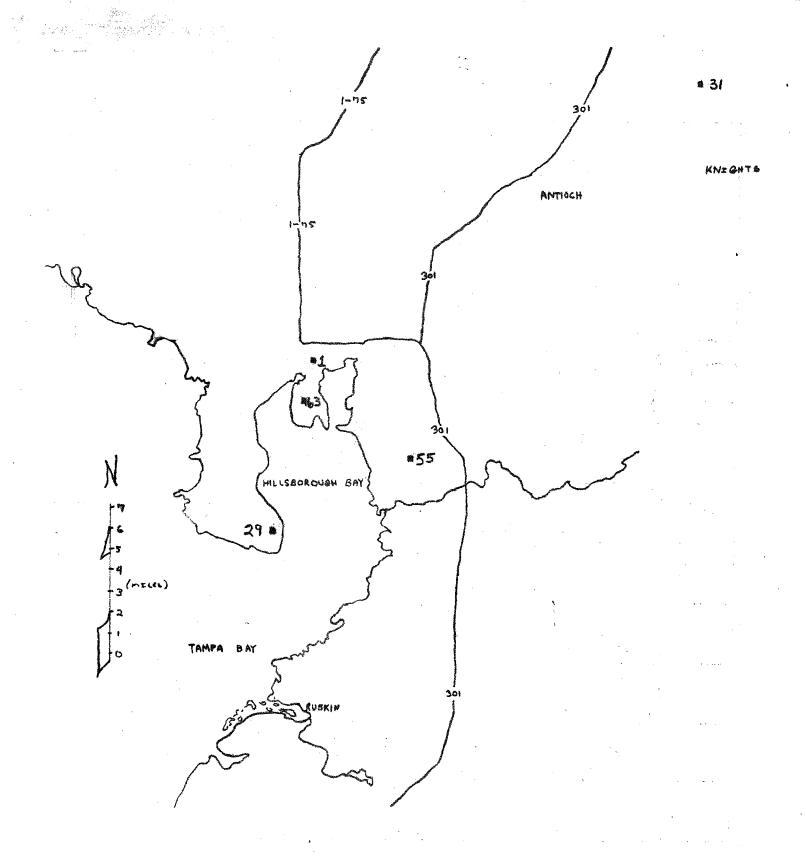
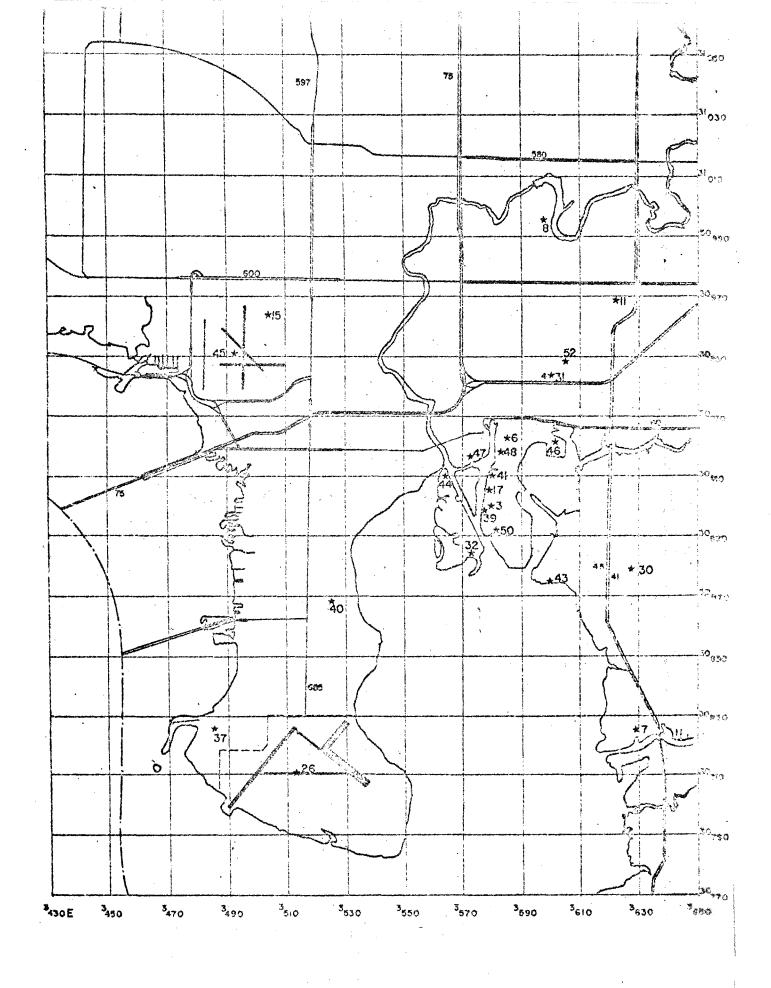
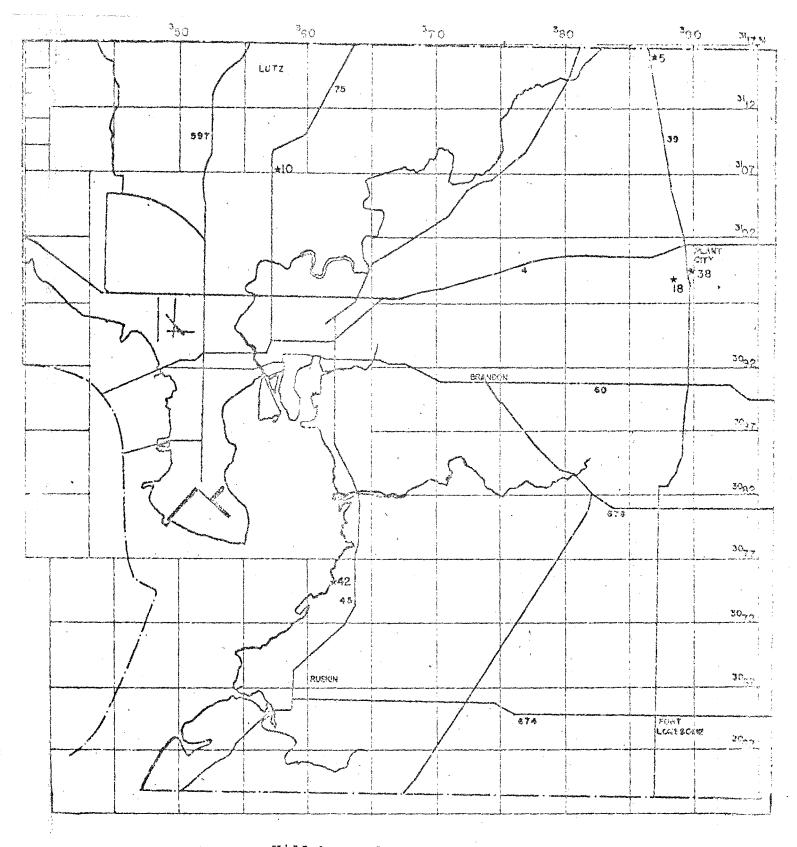


Figure 58
AIR POLLUTION SAMPLING STATIONS
1969-1970

SO₂ - WEST GAEKE





Hillsborough County
SO₂ Point **So**urces
Figure 60

 TABLE X

 H I L L S B O R O U G H C O U N T Y

 P O I N T S O U R C E S

| Map Code Number | Name of Source | UTM Grid | Partic- ulates | <u>so</u> 2 |
|--------------------|---|---------------------|-------------------|---------------|
| I amber | Trumo or botto | | .1 | |
| 1 | American Can Co. | 58.95-92.83 | | |
| 2 | American Lacquer & Solvents | 59.35-97.75 | | _ |
| . 3 | American Oil | 57.95-90.15 | | 0 |
| 4 | The Borden Co. (Plant City) | 96.18-93.00 | | |
| 5 | Central Phosphates, Inc. (SA) | 87,00-116.0 | 00 X0 | X0 |
| 6 | Chevron Asphalt | 58.40-92.38 | | 0 |
| 7 | Cities Service Co. | 62.95-82.50 | | X |
| 8 | City of Tampa Waterworks | 59.71-99.62 | | 0 |
| 9 | Concrete Products Co. | 57.43-101.4 | | |
| 10 | Cone Brothers Contracting (12th Street) | 57.73-107.2 | 29 X | 0 |
| 11 | Cone Brothers Contracting (Osborne) | 62.19-96.93 | | 0 |
| 12 | Continental Can | 60.85-93.15 | 5 | |
| 13 | Eastern Associated Terminals | 60.27-88.83 | | |
| 14 | Edgar Plastic Kaolin, Co. | 84.80-97.28 | | |
| 15 | Edwards Hospital | 50.38-96.49 | | 0 |
| 16 | Feeds for Florida | 60.85-97.46 | | |
| 17 | Florida Portland Cement | 57.89-90.61 | | 00 |
| 18 | Florida SIP | 88.25-98.92 | | 0 |
| 19 | Florida Steel Corp. | 64.81-93.80 | | |
| 20 | GAF Corporation | 62.40-87.00 | | |
| 21 | Grace & Co., W.R. | 60.25-93.35 | | |
| 22 | Harris Paint Co. | 58.45-92.78 | | |
| 23 | Humble Oil | 61.87-86.90 | | |
| 24 | International Mineral Corp. | 60.20-87.30 | | |
| 25 | Kaiser Agricultural Chemicals | 67.32+92.60 | _ | • |
| 26 | MacDill AFB | 51.25-81.00 | | 0 |
| 27 | Mary Carter Industries, Inc. | 50.80-103.0 | | |
| 28 | Mineral Aggregates, Inc. | 60.45-87.45 | | |
| 29 | National Gypsum (both) | 47.45-82.48 | | v |
| 30 | Nitram, Inc. | 62.80-87.90 | | X |
| 21 | Oak Park Cleaners | 59.98-94.38 | | 0 |
| 23 | Peter O'Knight Airport | 57.30-88.36 | | 0 |
| 33 | Plant City Airport | 85.90-97.57 | | |
| 34 | Reynolds Metals Co. | 60.63-103.3 | | |
| 35 | Robbins Lumber | 57.54-105.0 | | , |
| 36 | Seaboard Coastline R.R. | 60.12-88.25 | | ^ |
| 37 | Standard Oil Co. | 48.59-82.60 | | 0 |
| 38 | Sugar Rose Canning Co. | 89.75 -99.51 | | 0 0 |
| 39 | Sulfur Terminal | 57.78-89.92 | | |
| 40 | Swift & Co. | 52.65-86.8 | · - | 0 |
| 41 | Tampa Electric (Hooker's Pt.) | 58.00-91.00 | | 0 |
| 42 | Tampa Electric (Big Bend) | 61.95-75.00 | _ | . 0 |
| 43 | Tampa Electric (Gannon) | 60.00-87.55 | | ŏ |
| 44 | Tampa General Hospital | 56.45-90.98 | | ŏ |
| 45 | Tampa International Airport | 49.32-95.12 | | x |
| 46 47 | Tampa Incinerator | 57.28-91.69 | - | Ô |
| 4.7 | Tampa Sand & Material Texaco Terminal | 58.32~91.83 | | Ö |
| | | 61.23-103.3 | | J |
| 49 | Thatcher Glass | 58.09-89.24 | | 0 |
| 50 51 · | Union 76 | 60.85-105.0 | | • |
| 51 · 52 | University of South Fla. Weyerhauser Co. | 60.52-94.78 | | 0 |
| | X Process Loss | 0 Fuel Use | | |

In developing the control strategy for emission reduction in Hillsborough County, attention was centered on two major categories, namely power plants and sulfuric acid processes, since these two categories account for better than 95 percent of the total emissions. A total of 8 control strategies was tested in the Strategy Testing exercise, five on power plants and three on sulfuric acid processes giving a total of 15 different combinations. The eight control strategies are:

A. Power Plants:

- Strategy 1: Limit sulfur dioxide emission to 2.0 lbs per million BTU heat input per hour on all power plants.
- Strategy 2: Limit sulfur dioxide emission to 2.0 lbs per million BTU heat input per hour on coal fired plants and 1.5 lbs per million BTU heat input per hour on oil fired plants.
- Strategy 3: Limit sulfur dioxide emission to 1.5 lbs per million BTU heat input per hour on all power plants.
- Strategy 4: Limit sulfur dioxide emission to 1.5 lbs per million BTU heat input per hour on coal fired plants and 1.0 lb per million BTU heat input per hour on oil fired plants.
- Strategy 5: Limit sulfur dioxide emission to 1.0 1b per million BTU heat input per hour on all power plants.

B. Sulfuric Acid Processes:

- Strategy 6: Limit sulfur dioxide emission to 10 lbs per ton of 100% acid produced.
- Strategy 7: Limit sulfur dioxide emission to 8.0 lbs per ton of 100% acid produced.
- Strategy 8: Limit sulfur dioxide emission to 6.5 lbs per ton of 100% acid produced.

The following is the summary of these eight control strategy testing exercise.

| Strategy No. | Emission Reduction tons/yr. | Emission Reduction Percent Total |
|--------------|-----------------------------|----------------------------------|
| 1 only | 190,913.3 | 60.76 |
| 2 only | 191,753.1 | 61.03 |
| 3 only | 200,941.4 | 63.96 |
| 4 only | 203,963.0 | 64.92 |
| 5 only | 223,363.2 | 71.09 |
| _ | | 2.02 |
| 6 only | 12,042.9 | 3.83 |
| 7 only | 13,040.2 | 4.27 |
| 8 only | 14,424.3 | 4.59 |

Combination of strategy numbers 3 and 6 was selected to be "the control strategy" for control of sulfur dioxide. The reasons behind selection of this combination are:

There is no doubt that sulfur dioxide emission should be reduced very significantly. Most of the sulfur dioxide comes from power generation in Hillsborough County and presently there does not appear to be a satisfactory collection device available in the market which could achieve the desired removal of sulfur dioxide from exhaust gases. This is true for new sources also. The EPA performance standard level for power generating units are 1.2 and 0.8 lbs of sulfur dioxide per million BTU heat input per hour respectively for coal fired and oil fired power generating units. Options for control of sulfur dioxide could develop in two directions - one direction in the development of suitable control devices and the other direction in the development of desulfurization process. When one or both options develop, such options can be as easily incorporated for existing power plants as for new ones. Therefore, the proposed emission limit of 1.5 lbs of sulfur dioxide per million BTU heat input per hour is considered a reasonable goal to achieve.

(b) Control technology available today dictates that the emissions of sulfur dioxide from existing sulfuric acid plants can be limited to 6.5 lbs. per ton of 100% acid produced. The EPA performance standard for new sulfuric acid plants is 4.0 lbs per ton of 100% acid produced. Therefore, the proposed emission limit of 10.0 lbs. per ton of 100% acid produced in existing plants is considered very reasonable.

Control stretegy No. 3 in combination with Control Strategy No. 6 gives an expected emission reduction of 67.7 percent. The needed reduction is:

$$\frac{(239.8 - 100.0)}{(239.8 - 0)} = 58.3 \text{ percent}$$

where

239.8 is the highest sulfur dioxide concentration recorded in 1970, ppb.

100.0 is the standard for maximum 24 hour concentration, ppb.

0 is the background concentration.

As described previously in the particulate control strategy, TECO's Big Bend Unit #2 is being constructed. The resultant effect of this major source will be:

TECO Big Bend #2 Unit:

Construction Permit Issued

September 1, 1970

To Complete

April 1, 1973

Heat input capacity = 4440 million BTU/hour

Assume 24 hours/day and 350 days/year operation

Allowable sulfur dioxide emission

$$= (4440) (1.5) (24) (350) (\frac{1}{2000})$$

= 27,975 tons/year

Total sulfur dioxide emissions in Hillsborough = 314,173 tons/yr

Strategy 3: Emission reduction not accounting =200941
for Big Bend #2 Unit tons/yr
or
63.96%
reduction

Strategy 3: Net Emission Reduction = 172,966 tons/year accounting for Big Bend or #2 Unit. 55.05% reduction

Strategy 3: Emission Reduction = 55.05%

Strategy 6: Emission Reduction = 3.83%

Total Expected Reduction = 58.88% Needed Emission Reduction = 58.30%

Difference (Cushion) 0.58%

This cushion of 0.58% will not allow any future growth until after air quality diffusion modeling is done to determine whether new sources could be allowed.

The Florida Department of Pollution Control Board has adopted such a policy.

CONTROL STRATEGY - SO2 - POLK COUNTY

Polk County has the second largest quantity of SO₂ emissions in the West Central Florida A.Q.C.R. The majority of SO₂ emitted in Hillsborough County comes from power plants, whereas process emissions contribute the majority, 89.7% of SO₂ emission in Polk. These originate largely from sulfuric acid plants of the phosphate industry.

Following the same control strategies utilized in Hillsborough County, the amount reduction anticipated is 65.2%.

The reduction from sulfuric acid plants is 62.9%.

% reduction = 65666.95-18460.3 x 100% = 62.9% 75051.39

Similarly, the reduction from power plants is 2.3%.

Dade, Broward and Palm Beach Counties:

The proposed ambient air quality standard on sulfur dioxide for Dade, Broward and Palm Beach counties is

Annual Arithmetic Mean

- 3 ppb.

Maximum 24 hour concentration - 10 ppb.

Maximum 3 hour concentration - 50 ppb.

Of the total annual sulfur dioxide emission of 113,258 tons from the Southeast Region, 111,084 tons (98.1%) are from these three counties. The breakdown of this 111,084 tons is as follows:

| | Tons/yr. | Percent |
|----------------------|------------------|---|
| Fuel Combustion | 4,861 | 4.38 |
| Power Plants | 96,929 | 87.26 |
| Process Emissions | 3,747 | 3.37 |
| Solid Waste Disposal | 408 | 0.37 |
| Transportation | 5,139 111,084 | $\begin{array}{r} 4.62 \\ 100.00 \end{array}$ |

Power plants alone account for most of the sulfur dioxide emission. With the proposed emission limit of 1.5 obs sulfur dioxide emission, this quantity is expected to decrease to 80,059 tons, a reduction of 31420 tons per year. This amounts to a net reduction of 28.3 percent in these three counties. Separately this reduction is as follows:

| | 10115 | /year | |
|------------|-------------------|-----------|-------------|
| County | Present Emissions | Reduction | % Reduction |
| Broward | 40394.5 | 5897.4 | 14.6 |
| Dade | 37969.6 | 18607.4 | 49.0 |
| Palm Beach | 18565.0 | 6915.5 | 37.3 |
| | 96,929.1 | 31,420.3 | |

Ambient monitoring of sulfur dioxide carried out by Dade and Palm Beach County pollution control programs provide the following information on the maximum and arithmetic means for the year 1970.

Dade County - 1970

Annual Mean - 2 ppb.

Maximum 24 hour concentration - 13 ppb.

Palm Beach County - 1970

Annual Mean - 1.6 ppb.

Maximum 24 hour concentration - 28.0 ppb

While the Dade County values reported above are based on sampling done at periodic intervals throughout the year, those reported for Palm Beach County are based on approximately two week sampling periods in each of the eight locations which have been established in Palm Beach County. These are given below.

Sulfur Dioxide Concentration, ppb. 24 hour Max. Location Average 0.7 Tequesta 10 North Palm Beach 5.2 28 1.7 West Palm Beach 1.7 Lake Worth 1.0 0.3 DelRay 1.2 Boca Raton 13 1.9 Royal Palm Beach 6 Belle Glade 0

Because the maximum and average values are based on only two week sampling period, as such, these values are to be regarded only as a thumbnail sketch of the ambient levels of sulfur dioxide concentrations in Palm Beach County. However, the fact that during this two week sampling period, the average concentration in North

Palm Beach was 5.2 ppb and that a maximum of 28 ppb was recorded in one of those sampling days leads one to believe that the magnitude of the sulfur dioxide problem is a little more severe in Palm Beach County than in Dade County.

The proposed emission limit of 1.5 lbs of sulfur dioxide per million BTU heat input per hour is based on reasonably available control technology. This limit achieves an emission reduction of 49.0 percent in Dade County, which will improve the air quality in Dade County to a significant degree. The 49.0 percent emission reduction is more than the 23 percent needed to achieve the standard of 10 ppb allowed for a maximum 24 hour concentration.

To achieve a standard of 10 ppb allowed for a maximum 24 hour concentration in Palm Beach County, an emission reduction of 64.3 percent is required. This would mean that an emission limit of less than 0.8 lbs per million BTU heat input per hour must be imposed on power plants. Based on sound engineering judgment and an appreciation of existing control technology on the removal of sulfur dioxide from power plants, only the following conclusions could be drawn:

- (a) the air quality standard set for these counties will be unattainable in Palm Beach County under the existing technology even by prohibiting any new source.
- (b) allow only natural gas for power generation and prevent future growth.
- (c) close or relocate the sources outside the County.

With the Department policy to protect public health and welfare, the existing ambient levels in Palm Beach County as such are far away from those levels which would constitute a violation. However, with the ambient SO₂ standard set at 3 ppb annual arithmetic mean and 10 ppb maximum 24 hour concentration and with the Department policy to enhance the air quality in all areas of the state, the dilemma, simply stated, is a choice between closing dwon the existing source and progressively limiting the emissions, as the technology continues to expand, up to a point when the emissions will be such that the standards will be met. It is planned to achieve

the standard in Palm Beach County through updating of emission limits as the technology advances in the future. In the mean time no additional sources which emit sulfur dioxide can be allowed in Palm Beach County. To this effect the Board adopted a policy of no growth in Palm Beach County until further analysis is made to determine otherwise.

Control Strategy - Carbon Monoxide, Photochemical Oxidants and Nitrogen dioxide

According to Part 420, Federal Register, Volume 36, No. 158 (Requirements for preparation, Adoption and Submittal of Implementation Plans), each plan for a region classified Priority I with respect to carbon monoxide, photochemical oxidants or nitrogen dioxide must demonstrate through control strategy testing exercise an emission reduction to reflect a corresponding reduction in ambient concentration and attainment of the national standard. Priority I regions with respect to these pollutants as seen in Section on Priority classification are:

Carbon Monoxide

- None

Photochemical Oxidants - Northeast and Northwest Interstate Regions

Nitrogen Dioxide

 Northeast, West Central and Southeast Regions.

(A) <u>Carbon Monoxide</u> - <u>Dade</u>, <u>Broward and Palm Beach</u> Counties

Based on the criterion used for Priority classification for carbon monoxide, there is no region in the state in Priority I classification for carbon monoxide. In view of the different set of standards for Dade, Broward and Palm Beach Counties, even though the present ambient concentrations do not exceed these standards, it was thought advisable to run a control strategy test. Almost all of the carbon monoxide load (97.5%) in the Southeast region is accounted from transportation sources. Automobile population which comprises the bulk of the transportation sources is increasing at the rate of about 8-9 percent which, over a period of 3½ years up to mid 1975, will be in the neighborhood of about 30 percent increase above the present population. increase in population will be offset by the decreased emissions from automobiles by mid 1975 as shown in the following strategy test.

Using the normalized curve (figure 61) projected with a base of unity in 1967, the normalized emission rate for 1971 is 0.92 and that for 1975 is 0.70.

$$A.Q._1 = A.Q._o \left[\frac{E_1}{E_0} + (1-F_o) \quad (GF) \right]$$

where subscripts 0 and 1 devote the base year and future year of interest respectively.

A.Q. = Air quality (measured or estimated) in region

E = Normalized emission rate

F = Ratio of motor vehicle emission to tetal emission

GF = Growth factor of stationary sources.

Assuming a growth factor of two for stationary sources (a growth factor of two is very high for this short a time period of 3½ years).

$$A.Q._1 = A.Q._0 \left[\frac{0.70}{0.92} (0.975) + (1-0.975) (2) \right]$$

$$= A.Q._0 (0.742 + 0.05)$$

$$= A.Q._0 (0.792)$$

This shows that the air quality by mid 1975 will be better than 1971. Ambient concentrations determined during 1971 (see Appendix on the Summer Air Quality Measurements by EPA) reveals that the 1 hour standard of 12 ppm has been exceeded by 0.5 ppm once. In 1975 this maximum concentration will be 0.792 x 12.5 or 9.9 ppm. By 1985, the air quality is expected to improve, further more significantly even with a growth factor of six for stationary sources, as seen below

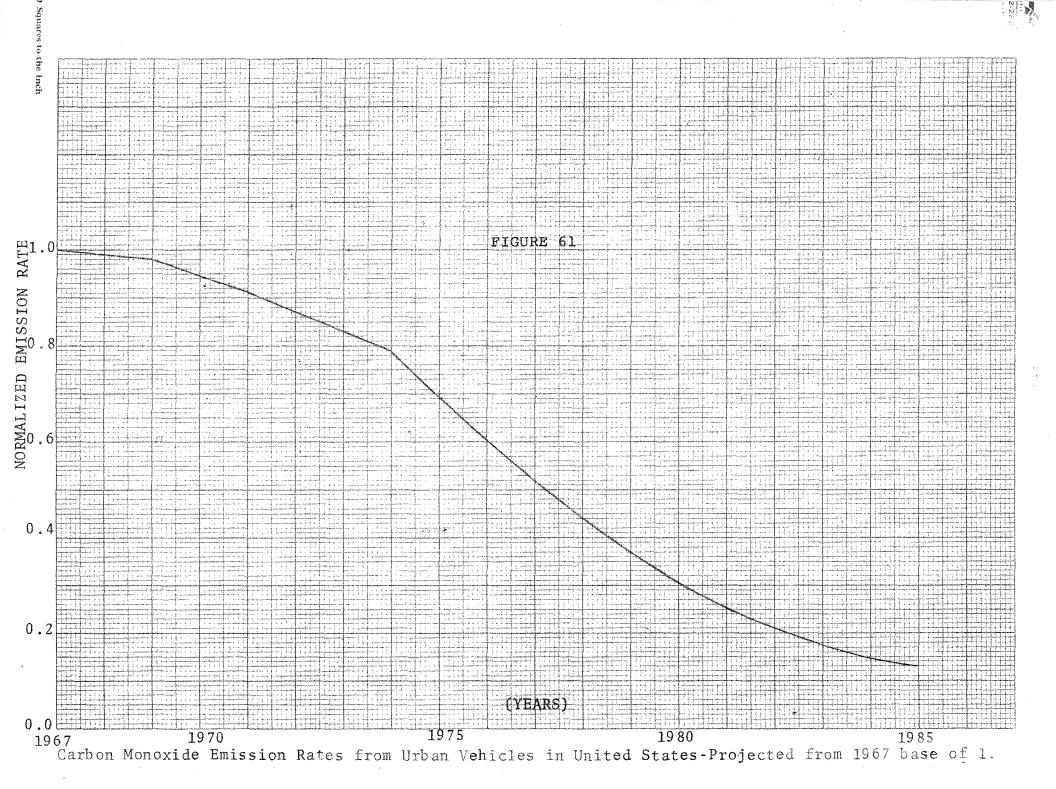
$$A.Q._{1985} = A.Q._{1971} \left[\frac{0.13}{0.92} (0.975) + (1-0.975) (6) \right]$$

$$= A.Q._{1971} (0.28)$$

(B) Photochemical Oxidants:

(1) Jacksonville Brunswick Interstate A.Q.C.R.

Priority I region for Photochemical Oxidants is the Northeast region (Jacksonville). The maximum recorded 1 hour concentration is 0.1 ppm whereas the national standard to be met is 0.08 ppm. The degree of reduction required is 20 percent. Since photochemical oxidants are not a primary pollutant, control of hydrocarbon emission is employed as the mechanism of control on photochemical oxidants concentration. The degree of control required on hydrocarbon emissions which will



achieve the national standard on photochemical oxidants is shown in Figure 62. From this curve, the degree of hydrocarbon reduction required is 20 percent.

To determine the amount of hydrocarbon reduction achieved by 1975, the equation utilized in the carbon monoxide control strategy must be used.

A.Q.₁ = A.Q.₀
$$\left[\frac{E}{E_0}\right]$$
 F₀ + (1-F₀) (GF)

From Figure 63 on normalized hydrocarbon emission rate, the following values were obtained.

| Year | E, Normalized hydrocarbon emissions |
|------|-------------------------------------|
| 1967 | 1.00 |
| 1981 | 0.83 |
| 1975 | 0.55 |

The ratio of motor vehicle emissions to tetal emissions of each pollutant in Duval County is:

$$F = \frac{53096.0 \text{ tons/yr}}{72286.06 \text{ tons/yr}} = 0.735$$

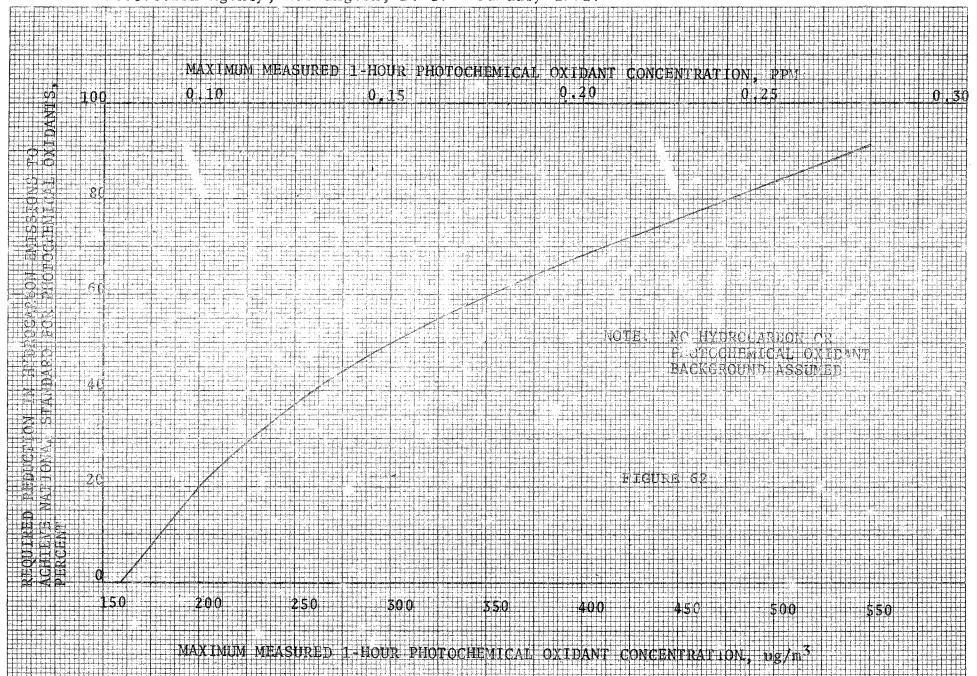
Since air quality data was obtained in Duval County (Jacksonville, City of) and the ratio of motor vehicle emissions to total is less for Duval County than for the region, the Factor "F" was calculated for Duval County.

If there is no control placed on stationary hydrocarbon sources and a 10% yearly increase of emissions from new sources, the growth factor (GF) will be 1.35.

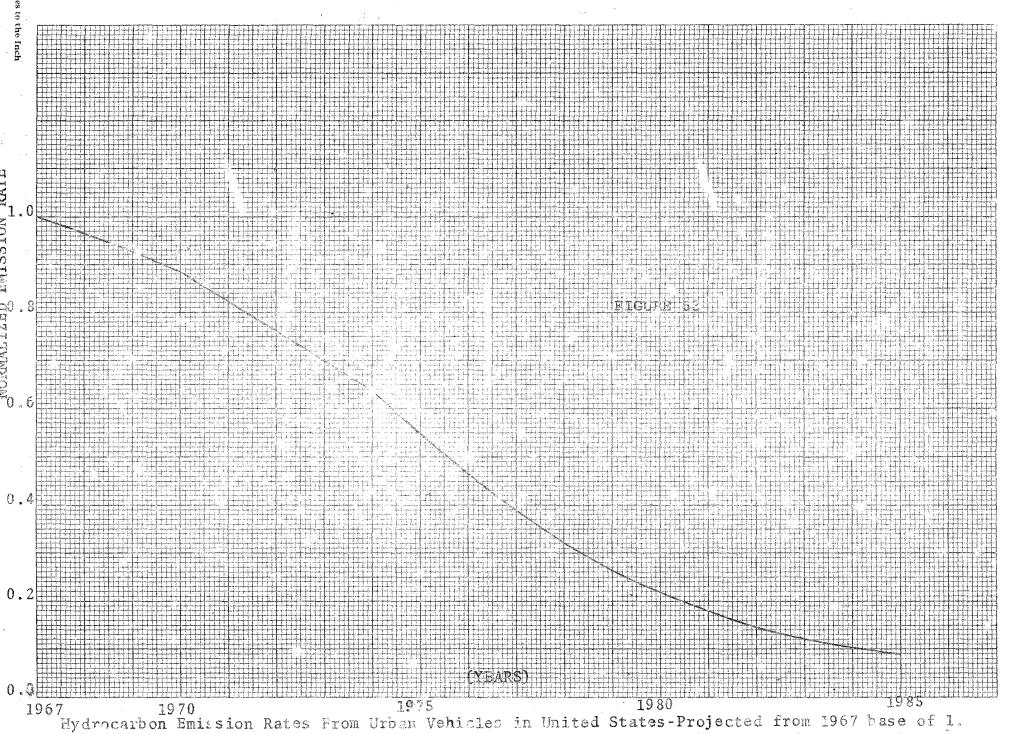
The expected air quality in 1975 will be.

A.Q.₇₅ = A.Q.₇₁
$$\left[\frac{E_{75}}{E_{71}}\right]$$
 F₇₁ + (1-F₇₁) (G.F.)
= A.Q.₇₁ $\left[\frac{0.55}{0.83}\right]$ (0.735) + (1-0.735) (1.35)
= (0.828) A.Q.₇₁

Required Hydrocarbon Emission Control as a Function of Photochemical Oxidant Concentration. Air Quality Criteria for Nitrogen Oxides, AP-84, Environmental Protection Agency, Washington, D. C. - January 1971.







Thus the reduction of ambient levels of hydrocarbons from 1970 to 1975 will be 17.2%. This is slightly under the 20% needed. However, incorporating emission limitations (see chapter 17-2 F.A.C.) on stationary sources the growth factor would nearly approximate 1.0. The resultant expected air quality in 1975 would be 0.735 times the present ambient level or a 26.5% reduction. This reduction is believed sufficient to obtain the desired air quality standard.

(2) Mobile-Pensacola-Panama City-Gulf Port Interstate A.Q.C.R.

The maximum I hour photochemical oxidant concentration recorded for the region was 250 ug/m³ in Mobile, Alabama. This dictates from Figure 63 that a 37% reduction is required for hydrocarbons to effect a corresponding reduction in Photochemical oxidant concentration. The nearest urban center in Florida is Pensacola which is about 50 miles away from Mobile. The contribution of hydrocarbons transported from Pensacola to Mobile (and the existing air quality in Pensacola) is unknown. Consequently, performing a hydrocarbon control strategy would produce no definite results except for comparison. Following is our calculations on hydrocarbon reduction:

$$A.Q._1 = A.Q.$$
 $E_1F_0 + (1-F_0)$ GF
 E_0

The ratio of motor vehicle emissions to total emissions of hydrocarbons in Escambia County is:

$$F = \frac{18590.0 \text{ tons/yr}}{23265.2 \text{ tons/yr}} = 0.8$$

From Figure 63, the hormalized hydrocarbon emission rate, E, for 1971 and 1975 is 0.83 and 0.55 respectively.

Assuming a 10% growth factor, the 1975 expected air quality will be:

$$A.Q._{15} = A.Q._{71} \frac{0.55}{0.83} (0.8) + (1-0.8) (1.35)$$

= A.Q.₇₁ (0.8) or a 20% reduction

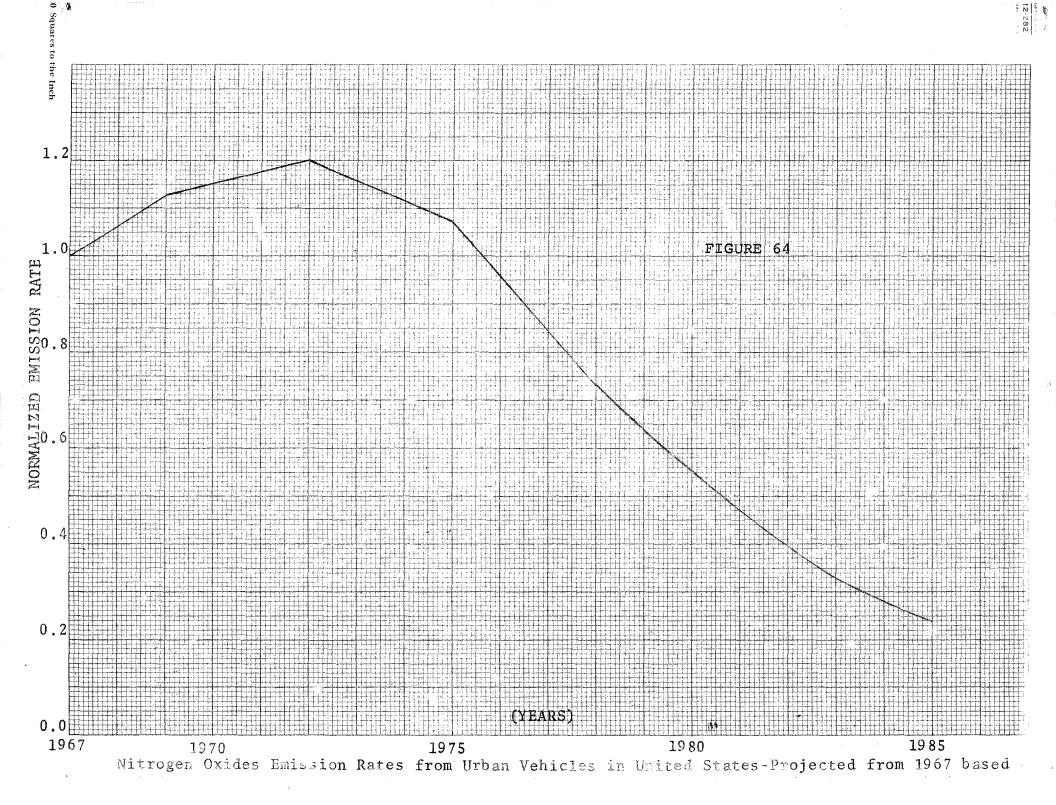
As explained earlier, the growth factor would approximate 1.0 when emission limitations are applied. The expected reduction in this case would be 27%. This reduction would be insufficient if the problem were located in Pensacola (Escambia County). However, because the problem is in Mobile, this amount of reduction is believed sufficient to reduce the concentration of photochemical oxidants consistent with the reduction required in Mobile, Alabama.

(C) Nitrogen Dioxide:

Two regions, namely, West Central (Tampa), and Southeast (Miami) are Priority I Regions for nitrogen dioxide. The normalized nitrogen dioxide emission from automobiles is not expected to decrease by 1975, rather it is expected to increase slightly (see figure 64). As such, in areas where the automobiles are a significant contributor to nitrogen dioxide emission at the present time, difficulty may very likely be encountered in reducing the emissions to the desired degree.

Whatever reduction is achieved from automobile sources during this time period will have to be from such traffic control measures as banning traffic in certain areas in these cities and instituting mass transit system with pheripheral parking arrangements. Such contemplated measures will involve expenditure of large sums of money and public cooperation in addition to a longer period to bring such a system into operation. In view of the high ambient concentrations measured at these three locations, even though it may take longer, it was considered a step in the right direction to initiate appropriate steps with the cooperation from the Florida Department of Transportation. Attached is the Statement of Intent from the Secretary of the Department of Transportation on this subject and it is planned to pursue continued action at all levels until a satisfactory solution is found to effect a desired decrease in nitrogen dioxide emissions.

The following exercise is to demonstrate the magnitude of reduction/increase in nitrogen dioxide



STATE OF FLORIDA



REUBIN O'D. ASKEW

GOVERNOR

DEPARTMENT of TRANSPORTATION

Tallahassee, Florida 32304

EDWARD A. MUELLER ... Secretary
DIVISION DIRECTORS

Telephone, (904) 599-6321

 EARL M. STARNES,.... Mass Transit Operations
TOM WEBB, JR. Administration

November 4, 1971

Mr. Vincent D. Patton Director, Department of Air and Water Pollution Control Suite 300, Tallahassee Bank Building Tallahassee, Florida 32304

Dear Mr. Patton:

Reference is made to the Clean Air Act of 1970, particularly as it relates to major urban areas in Florida and the air pollution problems created by automobile traffic in these areas.

In conference with Mr. David A. Scott, Mr. Walter Starnes and Dr. J. P. Subramani of your Agency, it was determined that the Department of Transportation could be of service to the Department of Air and Water Pollution Control in developing a plan for reduction of air pollution in major urban areas in at least two ways.

First, the Department will continue its efforts to advance mass and rapid transit projects now in its five-year program, in those urban areas where critical pollution is anticipated, to the maximum extent that Federal Aid, state and local funds will permit.

Second, with your assistance we will try to correlate traffic patterns with amount of pollution produced. Then to the extent possible, we will use our comprehensive urban area transportation study data and our professional staff to simulate the effects that changes in traffic patterns will create by reducing vehicular traffic within the Central Business Districts to conform with acceptable standards.

Mr. Vincent D. Patton Tallahassee, Florida 32304 November 4, 1971 Page Two

As you develop Florida's Air Pollution Prevention and Control Implementation Plan, please be assured that we will provide the above services to your staff and will help in any other way possible within the limits of available manpower and funds to perform this work.

Sincerely,

Edward A. Mueller

Muller

Secretary

EAM:hmd

emissions expected in these three locations.

West Central Region

Step 1:

Estimated Annual Average = 132 ug/m³

National Standard to be met = 100 ug/m³

Degree of reduction required:

 $\frac{132 - 100}{132 - 0}$ = 24.2 percent

Step 2:

Use equation: A.Q.₁= A.Q._o $\left[\frac{El}{E_o} \text{ Fo } + (1-\text{Fo}) \text{ GF}\right]$

Where: E= Normalized rate

F= Ratio of Motor vehicle emissions to total emissions

GF= Growth factor for stationary sources

For Hillsborough County:

F = 0.434

GF= 1.35 (assume 10% growth for 3½ years.)

E for 1971= 1.18

E for 1975= 1.07

The air quality in 1975, assuming growth and no stationary source control is:

$$A.Q._{1975} = A.Q._{1971} \left[\frac{1.07}{1.18} (0.434) + (1-0.434) 1.35 \right]$$

This shows that the concentration will increase by 15.8% without any controls on stationary sources. With controls on stationary sources (mostly power plants) and

assuming growth as above, the air quality will be:

$$A.Q._{1975} = A.Q._{1971}$$
 (1.062)

where: GF = 39581 (Stationary emission control) x 1.35 45298 (Present stationary emissions) (Growth)

Even with controls on stationary sources there is a slight increase, 6.2% in emissions. Assuming that no growth is allowed the air quality in 1975 would be:

$$A.Q._{1975} = A.Q._{1977}$$
 (0.889)

where GF - 39581 (Stationary emissions with control)
45298 (Present stationary emissions)

As shown above there will be a 11.1% decrease in emission when stationary controls and no growth measures are initiated. However, this decrease is not sufficient (only 11.1% compared to 24.2% needed) to meet the national primary air quality standard for nitrogen oxides.

With a two year extension to control nitrogen dioxide, the 1977 air quality, assuming growth and stationary source controls, will be:

A.Q.
$$_{1977}^{=A.Q.}$$
 $_{1971}$ $\frac{(0.84)}{1.18}$ $\frac{(0.434)}{1.18}$ + $\frac{(1-0.434)}{45298}$ (1.35)

In 1977 there will be a 7.4% increase in the 1971 ambient levels of Nitrogen Dioxide when stationary source controls are utilized while still allowing growth. Allowing no growth in emissions from stationary sources and instituting source controls on existing stationary sources, the air quality in 1977 will be:

This is still insufficient to meet primary National Air Quality Standard for Nitrogen Oxides.

Similar control strategy calculations were performed for the Southeast Region (Miami). Table XI contains the summary of these calculations on the expected Nitrogen Dioxide levels in these two areas by 1975 and 1977 respectively. These calculations demonstrate that even with a two year extension period (which will be the maximum time allowed by EPA) to meet the standard and with controls on stationary sources, still traffic control measures must be instituted in order to achieve the standard.

It is expected that by 1977, some traffic control measures would have been instituted and that a mass transit system will be at least in partial operation in these urban centers, which will reduce the automobile emissions to a desired level in order to be able to meet the air quality standard. The air quality surveillance program which will be expanded to meet the monitoring requirements will give more definite information on both the existing and projected concentration levels by 1975. Information on this will be updated as it becomes available and included in the future semiannual reports.

The Board has decided to recommend to the Governor to request a two year extension to meet the nitrogen dioxide standard by 1977.

TABLE XI

EXPECTED NITROGEN DIXOIDE LEVELS

1975 AND 1977

| Region | Average Annual conc. ug/m ³ | Percent Reduction Needed | Expected C Growth With no Control* | Conc. & Chang Growth with Control* | No Growth with Control* | Expected Growth with no Control* | Conc. & Ch Growth with Control* | ange 1977 No Growth with Control* |
|-------------------------|---|--------------------------------|---|---|-------------------------------|---|--|-----------------------------------|
| West Central (Tampa) | Summer Study 131 1970 NASM 132 | 24.2 | 152.9 +15.8% | 140.2 +6.2% | 117.4 | 156.4 +18.5 | 141.0 | 106.1 |
| | | | | | | | | |
| Southeast (Miami) | Summer Study & 1970 NASN | 24.2 | 135.0 | 130.4 | 119.46 | 123.2 | 117.9 | 100.6 |
| | 132 | | + 2.3% | - 1.2% | - 9.5% | - 6.7% | -10.7% | -23.8% |

SECTION III

RULES OF THE STATE OF FLORIDA
DEPARTMENT OF POLLUTION CONTROL

CHAPTER 17-2

AIR POLLUTION

RULES

OF THE

STATE OF FLORIDA

DEPARTMENT OF POLLUTION CONTROL

CHAPTER 17-2

AIR POLLUTION

- 17-2.01 Declaration and Intent
- 17-2.02 Definitions
- 17-2.03 General Restrictions
- 17-2.04 Prohibitive Acts
- 17-2.05 Ambient Air Quality Standards
- 17-2.06 Air Pollution Episode
- 17-2.07 Sampling and Testing
- 17-2.08 Local Regulations

17-2.01 Declaration and Intent

The State of Florida Department of Pollution Control promulgates this chapter to eliminate, prevent, and control air pollution. This chapter shall apply to all sources of air pollution except open burning or the use of outdoor heating devices allowed by chapter 17-5, Florida Administrative Code, unless otherwise provided in this chapter.

To protect and enhance the air quality of Florida, this chapter furthers the Department's nondegradation policy and establishes ambient air quality standards and emission standards. The policy inherent in the standards shall be to protect the air quality existing at the time the air quality standards were adopted or to upgrade or enhance the quality of the air of the State. In any event, where a new or increased source of air pollution poses a possibility of degrading existing high air quality or ambient air

quality established by this chapter, such source or proposed source shall not be issued a Department permit until the Department has reasonable assurance that such source construction or development will not violate this chapter.

This chapter is adopted to achieve and maintain such levels of air quality as will protect human health and safety, prevent injury to plant and animal life and property, foster the comfort and convenience of the people, promote the economic and social development of this State and facilitate the enjoyment of the natural attractions of this State.

General Authority 403.061 FS. Law Implemented 403.021, 403.031, 403.061 FS. History - New 1-11-72.

17-2.02 Definitions

The following words and phrases when used in this chapter shall, unless context clearly indicates otherwise, have the following meanings:

- (1) "Air pollutant" Any matter found in the atmosphere other than oxygen, nitrogen, water vapor, carbon dioxide and the inert gases in natural concentrations.
- (2) "Air pollutant source" or "source" Any source at, from, or by reasons of which there is emitted into the atmosphere any air pollutant(s).
- (3) "Process weight" The total weight of all materials introduced into any process. Solid fuels and recycled materials are included in the determination of process weights; but uncombined water, liquid and gaseous fuels, combustion air or excess air are not included.
- (4) "Standard conditions" A gas temperature of 70 degrees fahrenheit and a gas pressure of 14.7 psia.
- (5) "Existing source" A source which is in existence, (except for reactivation of older plants) operating or under construction or has received a permit to construct prior to the effective date of this chapter.

- (6) "New Source" any source other than an existing source.

 New source includes reactivating existing or older plants which have been shutdown for a period of more than one year.
- (7) "Particulate matter" Means any material, other than uncombined water, which exists in a finely divided form as a liquid or solid, as measured by the sampling methods approved by the Board.
- (8) "Sulfuric Acid Plant" Means any installation producing sulfuric acid by the contact process by burning elemental sulfur, alkylation acid, hydrogen, sulfides, organic sulfides and mercaptans, or acid sludge.
- (9) "Acid mist" Means any size liquid drops of any acid including but not limited to sulfuric acid and sulfur trioxide, hydrochloric acid and nitric acid as measured by test methods approved by the Board.
- (10) "Visible emission" Means an emission greater than 5 percent opacity or 1/4 Ringelmann measured by standard methods.
- (11) "Fugitive particulate" Particulate matter which escapes and becomes airborne from unenclosed operations or which is emitted into the atmosphere without passing or being conducted through a flue pipe, stack or other structure designed for the purpose of emitting air pollutants into the atmosphere.
- (12) "Air Pollution Episode" An occurrence of elevated levels of pollutants in the atmosphere which require hasty and unusual abatement action.
- (13) "Odor" Means a sensation resulting from stimulation of the human olfactory organ.
- (14) "Objectionable Odor" Any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which

unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.

- (15) "Fossil fuel steam generators" Furnaces and boilers which produce steam by combustion of oil, coal or gas of fossil origin.
- (16) "Plant section" A part of a plant consisting of one or more unit operations including auxiliary equipment which provides the complete processing of input (raw) materials to produce a marketable product, including but not limited to, granular triple super phosphate, phosphoric acid, run-of-pile triple super phosphate and di-ammonium phosphate, or one or more unit operations including auxiliary equipment of structures which are used for the functions of, including but not limited to, storage, shipping, loading, unloading, or bagging.
- (17) "Department" Means the State of Florida Department of Pollution Control.
 - (18) "Director" Means the Executive Director of the Department.
- (19) "Volatile organic compounds" or "Organic Solvents"

 Are any compounds containing carbon and hydrogen or carbon and hydrogen in combination with any other element which has a vapor pressure of 1.5 pounds per square inch absolute (77.6 mm. Hg) or greater under actual storage conditions.
- (20) "Portland cement plant" Means any facility manufacturing Portland Cement by either the wet or dry process.
- (21) "Nitric acid plant" Means any facility producing weak nitric acid by either the pressure or atmospheric pressure process.
- (22) "Kraft Pulp Mill" Means an industrial operation which processes wood to produce cellulose or cellulose materials by means of chemically cooking the wood with a liquor consisting of an alkaline sulfide solution containing sodium hydroxide and sodium sulfide, also known as the sulfate process.

- (23) "Bark boilers" Means a part of the process of a kraft pulp mill, a furnace which produces steam using wood bark, either continuously or intermittantly along with fossil fuels.
- (24) "Sulphur Recovery Plant" Any plant that recovers sulphur from crude (unrefined) petroleum materials.
- (25) "Ringelmann Chart" Means the chart published and described in the U. S. Bureau of Mines Information Circulars No. 8333 and No. 7718.
- (26) "Stagnant atmospheric condition" Denotes when the atmospheric and meteorological conditions will reduce the necessary diffusion and dispersement of air pollutants in the atmosphere.
- (27) "Opacity" Means a state which renders material partially or wholly impervious to rays of light causing obstruction of observer's view.

General Authority 403.061 FS. Law Implemented 403.021, 403.031, 403.061 FS. History - Revised 1-11-72.

17-2.03 General Restrictions

- (1) Latest Technology If the latest reasonably available technology as may be applied to air pollutant sources results in or is expected to result in lower or improved air pollutant emissions, then the latest available technology as determined by the Department shall apply.
- (2) Existing Source Compliance Except where compliance dates are specified, existing sources shall comply with this chapter as expeditiously as possible but in no case later than July 1, 1975.
- (3) Operation Rates No plant or source shall operate at capacities which exceed the limits of operation of a control device or exceed the capability of the plant or control device to maintain the air emission within the standard limitation imposed by this chapter, or 'p permit conditions

- (4) (a) Air Quality Standards Violated No person shall build, erect, construct, or implant any new source or operate, modify or rebuild an existing source or by any other means release or take action which would result in release of air pollutants into the atmosphere of any region, which will, as determined by the Board, result in, including concentrations of existing air pollutants, ambient air concentrations greater than ambient air quality standards.
- (b) Nondegradation In those counties of the State which have, on the effective date of this chapter, better air quality than that defined by the Ambient Air Quality Standards, no person shall emit into the atmosphere any air pollutant which degrades that quality.
- (5) Concealment No person shall build, erect, install or use any article, machine, equipment or other contrivance, the use of which will conceal an emission which would otherwise constitute a violation of any of the provision of this chapter.
- (6) Circumvention No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly.
- (7) Maintenance All air pollution control devices and systems shall be properly and consistantly maintained in order to maintain emissions in compliance with Department Rules.

 General Authority 403.061 FS. Law Implemented 403.021, 403.031, 403.061 FS. History New 1-11-72.

17-2.04 Prohibitive Acts

(1) Visible Emissions - No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from:

- (a) Existing Sources, until July 1, 1975, the density of which is equal to or greater than that designated as Number 2 on the Ringelmann Chart or the opacity of which is equal to or greater than 40 percent.
- (b) New Sources, and after July 1, 1975, existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart or the opacity of which is equal to or greater than 20 percent.
- (c) This subsection 17-2.04(1) does not apply to emissions emitted in accordance with specified emission limiting standards or in accordance with the process weight table (Table I) provided in this chapter.
- (d) If the presence of uncombined water is the only reason for failure to meet visible emission standards given in this section such failure shall not be a violation of this rule.
- (2) Particulate Matter No person shall cause, let, permit, suffer, or allow the emission of particulate matter from any air pollutant source in total quantities in excess of the amount shown in Table I, except as otherwise provided for in this chapter for specific emission limiting standards of particulate matter from specified sources.

PROCESS WEIGHT TABLE

TABLE I

hour)

| | rocess Weight | | | | | | | | | | | | | | | Emission | | | | | | | |
|------------------------------------|---------------|---|-----|---|----|---|---|-----|-----|---|----|---|----|-----|---------|----------|---|---|---|---|---|-----|---------------|
| Rate (pounds per hour) (pounds per | | | | | | | | | | | | | | | nds per | | | | | | | | |
| 50 | | | • | | | 1 | | | | | , | | | | | | | • | | | | | 0.03 |
| 100 | • | ٠ | • | ٠ | • | • | ٠ | ٠ | ٠ | | ٠ | * | ٠ | ٠ | • | | • | ٠ | | • | 4 | ٠ | |
| | ٠ | • | • | ٠ | ٠ | • | ٠ | . • | • | • | ٠ | ٠ | • | • | * | * | • | • | • | ٠ | • | ٠ | 0.55 |
| 500 | ٠ | ٠ | | • | • | ٠ | | | | ٠ | | ٠ | ٠ | | | | | | | ٠ | * | • | 1.53 |
| 1,000 | | | | | ٠ | | | | ٠ | | | | | | ٠ | | • | | | | | | 2.25 |
| 5,000 | | | | | | | | _ | | | | | | | | | | | | | | _ | 6.34 |
| 10,000 | | | • | - | - | • | • | | | • | ٠. | • | • | • | • | • | • | ٠ | • | • | ٠ | • | 9.73 |
| 20,000 | | • | • | ٠ | • | • | • | • | • | • | ٠ | • | • | * | •. | • | • | 4 | • | • | * | ٠ | 14.99 |
| 60,000 | | * | . • | ٠ | ٠ | • | ٠ | • | e- | | • | 4 | • | • | ٠ | •. | 4 | ٠ | • | ٠ | • | • | |
| | | ٠ | * | ٠ | • | • | • | • | • | • | ٠ | ٠ | • | • | | ٠ | ٠ | | • | ٠ | • | | 26.90 |
| 80,000 | | ٠ | | ٠ | ,• | | • | ٠ | | ٠ | | è | | ٠ | • | | • | | | | | | 31. 19 |
| 120,000 | | | | | | | | | | ٠ | | | | 4 | • | | 4 | | | , | | | 33.28 |
| 160,000 | | | | | | | | | _ | _ | | | _ | _ | | _ | _ | | | _ | _ | | 34.85 |
| 200,000 | | | | • | | | • | • | • | • | • | • | • | • | • | • | • | • | • | | • | • | 36.11 |
| 400,000 | | • | • | • | • | • | • | • | | • | • | * | • | • | • | • | * | • | * | • | • | • | 40.35 |
| 1,000,0 | ^^ | | • | • | • | • | ٠ | ٠ | ٠ | • | • | * | ٠. | . * | • | * | • | • | • | ٠ | ٠ | • . | |
| الاراناناويد | U | , | ٠ | ٠ | • | ٠ | ٠ | • | • . | ٠ | ٠ | • | | • | | • | • | ٠ | | ٠ | • | • | 46.72 |

- Interpolation of the data in Table I for the process weight rates up to 60,000 pounds per hour shall be accomplished by the use of the equation: E=3.59P0.62, P less than or equal to 30 tons per hour and interpolation and extrapolation of the data for process weight rates in excess of 60,000 pounds per day shall be accomplished by use of the equation: E=17.31P0.16, P is greater than 30 tons per hour. Where: E = Emissions in pounds per hour. P = Process weight rate in tons per hour. Application of mass emission limitations on the basis of all similar units at a plant is recommended in order to avoid unequal application of this type of limitation to plants with the same total emission potential but different size units. Upon establishing the total mass limitation, individual source emissions will be determined by prorating the mass emission total on the basis of the percentage weight input to each source process.
- (3) Fugitive Particulate No person shall cause, let, permit suffer or allow the emissions of particulate matter, from any source whatsoever, including but not limited to vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emission, except particulate matter emitted in accordance with the weight process table (Table I), the visible emissions standards or specific source limiting standards specified in this chapter.
- (4) Objectionable Odor Prohibited No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
- (5) Volatile organic compounds emissions or organic solvents emissions.

- (a) No person shall store, pump, handle, process, load, unload or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
- (b) All persons shall use reasonable care to avoid discharging, leaking, spilling, seeping, pouring, or dumping volatile organic compounds or organic solvents.
- (6) Stationary sources No person shall cause, let, permit, suffer, or allow to be discharged into the atmosphere emission from the following listed sources greater than any emission limiting standard given.

(a) Incinerators

- 1. The emission limiting standards for new incinerators with a charging rate of fifty or more tons per day are:
 - a. Particulate matter 0.08 grains per standard cubic foot dry gas corrected to 50 percent excess air.
 - b. Odor there shall be no objectionable odor.
- 2. The emission limiting standards for new incinerators with a charging rate of less than fifty tons per day are;
 - a. Visible emissions no visible emissions except,
 visible emissions are allowable for up to three
 minutes in any hour at densities up to
 but not more than, a density of Ringelmann Number 1.
 (Opacity of 20 percent)
 - b. Odor there shall be no objectionable odor.
- 3. As soon as possible, but not later than July 1, 1975, existing incinerators shall comply with the standards for new incinerators except that the particulate matter emission limiting standard for existing incinerators with a charging rate of fifty or more tons per day shall be 0.1 grains per standard cubic foot of dry gas corrected to 50 percent excess air.

- (b) Sulfuric Acid Plants the emission limiting standards for sulfuric acid plants are:
 - 1. Existing Plants
 - a. Sulfur dioxide (SO_2) ten pounds of SO_2 per ton of 100 percent H_2SO_4 produced, as expeditiously as possible but not later than July 1, 1975.
 - b. A plume with visibility of 5 percent opacity (equivalent to 1/4 Ringelmann Number), except for 30 minutes during plant startup periods with opacity allowed up to 40 percent (equivalent to Ringelmann Number 2)
 - 2. New Plants
 - a. Sulfur dioxide four pounds of SO_2 per ton of 100 percent H_2SO_4 produced.
 - b. Acid Mist 0.15 pounds per ton of 100 percent acid produced.
 - c. No visible emission except for 30 minute period during startup, but no greater than the opacity of 40 percent (equivalent to Ringelmann Number 2)
- (c) Phosphate Processing the emission limiting standards for phosphate processing are:
 - 1. Fluorides (water soluble or gaseous-atomic weight 19) the following quantities expressed as pounds of fluoride per ton of phosphatic materials input to the system, expressed as tons of P_2O_5 for:
 - a. New plants or plant sections:
 - a 1. Wet process phosphoric acid production, and
 auxiliary equipment 0.02 pounds of F per ton of P2O5.
 - a 2. Run of pile triple super phosphate mixing belt and den and auxiliary equipment 0.05 pounds of F per ton of P_2O_5 .

- a 3. Run of pile triple super phosphate curing or storage process and auxiliary equipment 0.12 pounds of F per ton of P_2O_5 .
- a 4. Granular triple super phosphate production and auxiliary equipment.
 - i. Granular triple super phosphate made by granulating run-of-pile triple super phosphate
 0.06 pounds of F per top of P₂O₅.
 - ii. Granular triple super phosphate made from phosphoric acid and phorphate rock slurry 0.15 pounds of F per ton of P₂O₅.
- a 5. Granular triple super phosphate storage, and
 auxiliary equipment 0.05 pounds of F per ton of P₂O₅.
- **a 6.** Di ammonium phosphate production and auxiliary equipment -0.06 pounds of F per ton of P_2O_5 .
- a 7. Calcining or other thermal phosphate rock processing and auxiliary equipment excepting phosphate rock drying and defluorinating -0.05 pounds of F per ton of P_2O_5 .
- a 8. Defluorinating phosphate rock by thermal processing and auxiliary equipment 0.37 pounds of F per ton of $P_{2}O_{5}$.
- a 9. All plants, plant sections or unit operations and auxiliary equipment not listed in a.l to a.8 will comply with best technology pursuant to Section 2.03(1) of this rule.
- b. Existing plants or plant sections. Emissions shall comply with above section, 17-2.04(6)(c) 1.a., for existing plants as expeditiously as possible but not later than July 1, 1975 or
 - b 1. Where a plant complex exists with an operating wet process phosphoric acid section (including any items

- 17-2.04(6) 1., a., a.1. through a.6. above) and other plant sections processing or handling phosphoric acid or products or phosphoric acid processing, the total emission of the entire complex may not exceed 0.4 pounds of F per ton of P_2O_5 input to the wet process phosphoric acid section.
- b 2. For the individual plant sections included in 17-2.04(6)(c), 1., a., 1.1. through 6.6 above but not included as a part as defined in 17-2.04(6)(c)1., b., b.l above, if it can be shown by comprehensive engineering study and report to the Department that the existing plant sections are not suitable for the application of existing technology, which may include major rebuilding or repairs and scrubber installations, the emission limiting standard to apply will be the lowest obtained by any similar plant section existing and operating.
- (d) Kraft (sulfate liquor) Pulp Mills
- 1. Black liquor recovery furnace. The emission limiting standards are:
- a. Particulate matter existing sources as expeditiously as possible, but not later than July 1, 1975, no greater than three pounds particulate per each 3,000 pounds black liquor solids fed. For new sources the same emission limiting standards apply.
- b. Total Reduced Sulfur existing plants as expeditiously as possible, but not later than July 1, 1975 17.5 ppm expressed as $\rm H_2S$ on a dry gas basis, or one-half (0.5) pounds per 3,000 pounds of black liquor solids fed, whichever is more restrictive. For new plants no greater than 1 ppm expressed as $\rm H_2S$ on the dry basis, or 0.03 pounds per 3,000 pounds of black liquor solids fed, whichever is the more restrictive.

- (e) Fossil Fuel Steam Generators The emission limiting standards for Fossil Fuel Steam Generators are:
 - 1. New Sources plants with more than 250 million BTU per hour heat input.
 - a. Particulate matter 0.1 pounds per million BTU heat input, maximum 2 hour average.
 - b. Visible emissions the density of which is equal to or greater than Number 1 of the Ringelmann Chart (20 percent opacity) except that a shade as dark as Number 2 of the Ringelmann Chart (40 percent opacity) shall be permissible for not more than 2 minutes in any hour.
 - c. Sulfur Dioxide 0.8 pounds per million BTU heat input, maximum 2 hour average, when liquid fuel is burned.
 - d. Sulfur dioxide 1.2 pounds per million BTU heat
 input, maximum 2 hour average, when solid fuel is burned.
 - e. Nitrogen oxides 0.20 pounds per million BTU heat input maximum 2 hour average, expressed as NO₂ when gaseous fuel is burned.
 - f. Nitrogen oxides 0.30 pounds per million BTU heat input, maximum 2 hour average, expressed as NO₂ when liquid fuel is burned.
 - g. Nitrogen oxides 0.70 pounds per million BTU heat input, maximum 2 hour average, expressed as NO_2 when solid fuel is burned.
 - 2. Existing Sources plants with more than 250 million BTU per hour heat input.
 - a. Particulate no greater than the standard for new sources.
 - b. Visible emissions no greater than the standard for new sources.

- c. Sulfur dioxide of 1.1 pounds per million BTU heat input when liquid fuel is burned, as expeditiously as possible but not later than July 1, 1975.
- d. Sulfur dioxide of 1.5 pounds per million BTU heat input when solid fuel is burned as expeditiously as possible but no later than July 1, 1975.
- e. Nitrogen oxides no greater than the standards for new sources as expeditiously as possible but no later than July 1, 1975.
- 3. New and existing Plants with 250 million or less BTU per hour heat input.
- a. Visible emissions standards as set forth in item 17-2.04(6)(e) l.b of this section.
- b. Particulate matter, sulfur dioxide and nitrogen oxides apply 17-2.03(1) latest technology.
- (f) Portland Cement Plants the emission limiting standards for Portland Cement Plants are:
 - 1. Existing and new sources.
 - a. For Kilns particulate shall be not greater than allowed by the Process Weight Table, Table I, set forth in 17-2.04(2). The table shall be applied to each individual source rather than being applied on the basis of mass emission limitations.
 - b. For clinker-coolers the emission limiting standard of 17-2.04(6)(f) 1.a above apply.
- (g) Nitric Acid Plants the emission limiting standards for nitric acid plants producing weak nitric acid (50-70 percent) by pressure or atmospheric pressure process are:
 - 1. New plants
 - a. Nitrogen oxides no greater than 3 pounds per ton of acid produced (100 percent basis)
 - b. Visible emissions none permitted.

- Existing plants shall comply with the standard as expeditiously as possible but no later than July 1, 1975.
- (h) Sulfur Recovery Plants the emission limiting standards for sulfur recovery plants recovering sulfur from crude oil gas are:
 - 1. New Plant
 - a. Sulfur oxides calculated as sulfur dioxide no greater than 0.004 pounds of SO₂ per pound of sulfur input to the recovery system or no greater than 0.004 pounds of SO₂ per pound of sulfur removed from an oil well.
 - 2. Existing Plants
 - a. Sulfur oxides calculated as sulfur dioxide no greater than (h) l.a. of this section above as expeditiously as possible but no later than July 1, 1975.
 - (7) Mobile Sources
- (a) No person shall cause, let, permit, suffer or allow the emission of smoke from motor vehicles on public roadways which is visible within the proximity of the engine exhaust outlet for a period of more than five (5) seconds.
 - 1. Definitions apply to this paragraph 17-2.04(7)(a) only
 - a. Smoke is defined as small gasborne and airborne particles, exclusive of water vapor, from a process of combustion, in sufficient number to be observable.
 - b. Motor vehicle is defined as any device powered by an internal combustion engine and on or in which any person or property may be transported.
 - 2. Exception all 2 cycle gasoline engines manufactured prior to the year 1976.

General Authority 403.061 FS. Law Implemented 403.021, 403.031, 403.061 FS. History - Revised 1-11-72.

17-2.05 Ambient Air Quality Standards

- (1) The air quality of the State's atmosphere is determined by the presence of specific pollutants in certain concentrations. Human health and welfare is affected and known or anticipated adverse results are produced by the presence of pollutants in excess of the certain concentrations. It is, therefore, established that maximum limiting levels, Ambient Air Quality Standards, of pollutants existing in the ambient air are necessary to protect human health and public welfare. The following statewide Ambient Air Quality Standards are established for Florida:
 - (a) Sulfur Dioxide
 - 1. 60 micrograms per cubic-meter (0.02 ppm) annual arithmetic mean.
 - 2. 260 micrograms per cubic meter (0.1 ppm) maximum
 24 hour concentration, not to be exceeded more than once per year.
 - 3. 1300 micrograms per cuoic meter (0.5 ppm) maximum 3 hour concentration, not to be exceeded more than once per year.
 - (b) Particulate Matter
 - 1. 60 micrograms per cubic meter annual geometric mean.
 - 2. 150 micrograms per cubic meter maximum 24 hour concentration, not to be exceeded more than once per year.
 - (c) Carbon Monoxide
 - 1. 10 milligrams per cubic meter (9 ppm) maximum 8 hour concentration, not to be exceeded more than once per year.
 - 2. 40 milligrams per cubic meter (35 ppm) maximum 1 hour concentration, not to be exceeded more than once per year.

- (d) Photochemical Oxidants measured and corrected for interferenced due to nitrogen oxides and sulfur dioxide.
 - 1. 160 micrograms per cubic meter (0.08 ppm) maximum
 1 hour concentration, not to be exceeded more than once per year.
- (e) Hydrocarbons For use as a guide in devising implementation plans to achieve oxidant standards. To be measured and corrected for methane.
 - 1. 160 micrograms per cubic meter (0.24 ppm) maximum 3 hour concentration (6 to 9 a.m.) not to be exceeded more than once per year.
 - (f) Nitrogen Dioxide
 - 1. 100 micrograms per cubic meter (0.05 ppm) annual arithmetic mean.
- (2) Exception in Dade, Broward, and Palm Beach County, the above Ambient Air Quality Standards apply except as provided differently below:
 - (a) Sulfur Dioxide
 - 1. 8.6 micrograms per cubic meter (0.003 ppm) annual arithmetic mean.
 - 2. 28.6 micrograms per cubic meter (0.010 ppm) 24 hour concentration.
 - 3. 57.2 micrograms per cubic meter (0.020 ppm) maximum four hour concentration.
 - 4. 286 micrograms per cubic meter (0.100 ppm) maximum one hour concentration,
 - (b) Suspended Particulates
 - 1. 50 micrograms per cubic meter annual geometric mean.
 - 2. 180 micrograms per cubic meter maximum 24 hour concentration.

- (c) Carbon Monoxide
- 1. 9 milligrams per cubic meter (8 ppm) maximum 8 hour concentration.
- 2. 14 milligrams per cubic meter (12 ppm) maximum 1 hour concentration:
- (3) Sampling and analyses of contaminants in this section shall be performed by the methods approved by the Board.
- (4) Abatement a determination that any of the above standards, 17-2.05(1), has been exceeded, shall be adequate evidence for the Department to commence an investigation to determine the cause and to execute appropriate remedial measures.

General Authority 403.061 FS. Law Implemented 403.021, 403.031, 403.061 FS. History - New 1-11-72.

17-2.06 Air Pollution Episode

An episode describes a condition which exists when meteorological conditions and rates of discharge of air pollutants combine to produce pollutant levels in the atmosphere which, if sustained, can lead to a substantial threat to the health of the people.

In order to prevent episode conditions from continuing or from developing into more severe conditions, positive action and a rapid abatement response is necessary. The severity of an episode has been classified upon the basis of the criteria given in the following sections with the three levels, alert, warning and emergency described.

Due to the exigent nature of named episodes the Director shall determine and declare that an air pollution episode exists. His determination shall be in accordance with the following criteria:

(.)(a) Air Pollution Forecast - the existence or forecast of a stagnant atmospheric condition as advised by a National Weather

Service advisory is in effect or an equivalent state or local

determination of a stagnant condition.

- (b) "Alert" the alert level is that concentration of pollutants at which first stage control actions is to begin.

 An "alert" shall be declared when any one of the following levels is reached at any monitoring site:
 - 1. Sulfur Dioxide (SO_2) 800 micrograms per cubic meter (0.3 ppm) 24 hour average.
 - 2. Particulate 3.0 ${\rm COH_S}$ or 375 micrograms per cubic meter, 24 hour average.
 - 3. Sulfur Dioxide (SO₂) and Particulate combined product of SO₂ ppm, 24 hour average, and COH_S equal to 0.2 or product of SO₂ micrograms per cubic meter, 24 hour average equal to 65×103 .
 - 4. Carbon Monoxide (CO) 17 milligrams per cubic meter (15 ppm), 8 hour average.
 - 5. Oxidant (0_3) 200 micrograms per cubic meter (0.1 ppm) 1 hour average.
 - 6. Nitrogen Dioxide (NO2) 1130 micrograms per cubic meter
 - (0.6 ppm), 1 hour average, 282 micrograms per cubic meter
- (0.15 ppm), 24 hour average, and meteorological conditions are such that pollutant concentrations can be expected to remain at the above levels for twelve (12) or more hours or increase unless control actions are taken.
- (c) "Warning" the warning level indicates that air quality is continuing to degrade and that additional control actions are necessary. A "warning" shall be declared when anyone of the following levels is reached at any monitoring site:
 - . Sulfur Dioxide (SO_2) 1600 micrograms per cubic meter $(0.6~\rm ppm)$, 24 hour average.
 - Particulate 5.0 COHs or 625 micrograms per cubic meter,
 hour average.

- 3. Sulfur Dioxide (SO₂) and Particulate combined product of SO₂ ppm, 24 hour average and COHs equal to
 0.8 or product of SO₂ micrograms per cubic meter, 24 hour
 average and particulate micrograms per cubic meter, 24 hour
 average equal to 261 X 103.
- 4. Carbon Monoxide (CO) 34 milligrams per cubic meter (30 ppm), 8 hour average.
- 5. Oxidant (03) 800 miero grams per cubic meter (0.4 ppm) 1 hour average.
- 6. Nitrogen Dioxide (NO₂) 2260 mitto grams per cubic meter (1.2 ppm) 1 hour average; 565 milligrams per cubic meter (0.3 ppm), 24 hour average,

and meteorological conditions are such that pollutant concentrations can be expected to remain at the above levels for twelve (12) or more hours or increase unless control actions are taken.

- (d) "Emergency" the emergency level indicates that air quality is continuing to degrade to a level that should never be reached and that the most stringent control actions are necessary.

 An "emergency" shall be declared when any one of the following levels is reached at any monitoring site:
 - 1. Sulfur Dioxide (SO_2) 2,100 micrograms per cubic meter (0.8 ppm), 24 hour average.
 - 2. Particulate 7.0 COHs or 875 micrograms per cubic meter 24 hour average.
 - 3. Sulfur Dioxide (SO₂) and Particulate combined product of SO₂ ppm, 24 hour average and COHs equal to 1.2 or product of SO₂ micrograms per cubic meter, 24 hour average and particulate micrograms per cubic meter, 24 hour average equal to 393 X 103.
 - 4. CO 46 milligrams per cubic meter (40 ppm), 8 hour average.
 - 5. Oxidant (0_3) 1,200 micrograms per cubic meter (0.6 ppm),
 - 1 hour average.

6. Nitrogen Dioxide (NO₂) - 3,000 micrograms per cubic meter (1.6 ppm), 1 hour average; 750 micrograms per cubic meter (0.4 ppm), 24 hour average,

and meteorological conditions are such that pollutant concentrations can be expected to remain at the above levels for twelve (12) or more hours

- (e) Area of Episode. The Director shall, when declaring any episode level, declare the counties in which the episode exists.
- (f) "Termination" once declared, any episode level will remain in effect until the pollutant concentration increases to meet the next higher level criteria or decreases to a point below the declared criteria level.
 - (2) (a) Emission Reduction Plans and Actions.

Upon a declaration by the Director that any episode level exists— alert, warning, or emergency—any person responsible for the operation or conduct of activities which result in emission of air pollutants shall take actions as required for such source or activity for the declared episode level as set forth in Episode Tables I, II, and III of this section and shall put into effect the Preplanned Abatement Strategy.

EPISODE TABLE I

alert Level Emission Reduction Plans

Part A. General During an "alert" level episode:

- 1. All forms of open burning are prohibited.
- g. The use of incinerators for disposal of any form of solid waste or liquid waste is prohibited.
- 3. Persons operating fuel-burning equipment which requires boiler lancing or soot blowing shall perform such operations only between the hours of 12 noon and 4 p.m.
 - Persons operating motor vehicles should eliminate all unnecessary operations.

Part B. Source Curtailment
During an alert level episode any persons responsible for the operation of a source of air pollutants listed below shall take all required control actions for this alert level:

Source of Air Pollution

18

 Coal or oil-fired electric power generating facilities.

Required Control Action

- a. Substantial reduction by utilization of fuels having low ash or sulfur content.
- b. Maximum utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing and soot blowing.
- c. Substantial reduction by diverting electric power generation to facilities outside of alert area.
- Process steam generating facilities which fire coal or oil.
- Substantial reduction by utilization of fuels having low ash and sulfur content.

HPISODE TABLE I CONTINUED

- Process steam generating facilities which fire wood, bark, or bagassee; totally or in combination with other fuels.
- 4. Manufacturing industries of the following classifications:

œ

Pulp and paper industries Citrus industries Mineral Processing industries Phosphate and allied chemical industries Secondary metal industry Petroleum operations

- b. Maximum utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence of boiler lancing and soot blowing.
- c. Substantial reduction of steam demands consistent with continuing plant operations.
- a. Substantial reduction by switching to fossil fuels with low ash and sulfur content or by diverting steam demands to steam generators utilizing low ash and sulfur content fuels.
- b. Maximum utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing and soot blowing.
- c. Substantial reduction of steam demands consistent with continuing plant operations.
- a. Substantial reduction of air pollutants from manufacturing operations by enacting preplanned abatement strategies including curtailing postponing or deferring production and all operations.
- b. Curtail trade waste disposal operations which emit air pollutants.

EPISODE TABLE I CONTINUED

5. Bulk handling operations which transfer or store material including but not limited to:

Cement Fertilizer

Phosphate rock Grain or Feed ROP Triple Super Phosphate Lime Sand and Gravel Dolomite

6. Any other industrial or commercial establishments which emit air pollutants. a. Maximum reduction of fugitive dust by curtailing, postponing or deferring bulk handling operations.

- a. Substantial reduction of air pollutants by curtailing, postponing, or deferring operations.
- b. Furtail trade waste disposal operations which emit air pollutants.

184

EPISODE TABLE II

Warning Level Emission Reduction Plant

Part A. General
During a "Warning" level episode:

- 1. All forms of open burning are prohibited.
- 2. The use of incinerators for disposal of any form of solid waste or liquid waste is prohibited.
- 3. Persons operating fuel burning equipment which requires boiler lancing or soot blowing shall perform such operations only between the hours of 12 noon and 4 p.m.
- Persons operating motor vehicles must reduce operations by the use of car pools and increased use of public transportation and elimination of unnecessary operation.
- 5. Unnecessary space heating or cooling is prohibited.

Fart B. Source Curtailment
Euring a warning level episode any persons responsible for the operation of a source of air pollutants listed below shall take all required control actions for this warning level:

Source of Air Pollution

1. Coal or oil-fired electric power generating facilities.

Required Control Action

- a. Maximum reduction by utilization of fuels having lowest ash and sulfur content.
- b. Maximum utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing and soot blowing.
- c. Maximum reduction by diverting electric power generation to facilities outside of warning area or to generating stations emitting less pollutants per kilowatt generated.

EPISODE TABLE II CONTINUED

Process steam generating facilities which fire oil or coal.

Process steam generating facilities which fire wood, bark or bagassee.

Manufacturing industries of the Pulp and paper industries

Citrus industries following classifications: Mineral processing industries Phosphate and allied chemical industries Secondary metal industry Petroleum operations

> Bulk handling operations which transfer or store material including but not limited to:

Fertilizer .

Phosphate Rock Grain or Feed ROP Triple Super Phosphate Cement Lime Sand and Graven Dolomite

- a. Maximum reduction by utilization of fuels having the lowest available ash and sulfur content.
- b. Maximum utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing and soot blowing.
- c. Stand-by to enact preplanned emergency action plan.
- a. Maximum reduction by reducing heat and steam demands to absolute necessities consistent with preventing equipment damage.
- b. Maximum utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing and soot blowing.
- a. Commence preplanned abatement strategies for the elimination of all air pollutants.
- b. Elimination of air pollutants from trade waste disposal operations which emit air pollutants.
- a. Elimination of fugitive dust by ceasing, curtailing, postponing or deferring transfer or storage of material.

EPISODE TABLE II CONTINUED

- Any other industrial or commercial establishments which emit air pollutants.
- a. Maximum reduction by curtailing, postponing or deferring operations.
- b. Eliminate trade waste disposal operations which emit air pollutants.

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Emergency Level Emission Reduction Plans

Part A. General During an "emergency" level episode:

- 1. All forms of open burning are prohibited.
- 2. The use of incinerators for disposal of any form of solid or liquid waste is prohibited.
- . All places of employment described below shall immediately cease operations.
 - a. Mining and quarrying of nonmetallic minerals.
 - b. All construction work except that which must proceed to avoid emergent physical harm.
 - c. All manufacturing establishments except those required to have in force an air pollution emergency plan.

EPISODE TABLE III

- d. All wholesale trade establishments; i.e., places of business primarily engaged in selling merchandise to to retailers, or industrial, commercial, institutional or professional users, or to other wholesalers, or acting as agents in buying merchandise for or selling merchandise to such persons or companies, except those engaged in the distribution of drugs, surgical supplies and food.
- e. All offices of local, county and State government including authorities, joint meetings, and other public bodies excepting such agencies which are determined by the chief administrative officer of local, county, or State government, authorities, joint meetings and other public bodies to be vital for public safety and welfare and the enforcement of the provisions of this order.
- f. All retail trade establishments except pharmacies, surgical supply distributors, and stores primarily engaged in the sale of food.

88

EPISODE TABLE III CONTINUED

- g. Banks, credit agencies other than banks, securities and commodities brokers, dealers, exchanges and services; offices of insurance carriers, agents and brokers, real estate offices.
- h. Wholesale and retail laundries, laundry services and cleaning and dyeing establishments; photographic studios; beauty shops, barber shops, shoe repair shops.
- i. Advertising offices; consumer credit reporting, adjustment and collection agencies; duplicating, addressing, blueprinting; photocopying, mailing, mailing list and stenographic services; equipment rental services, commercial testing laboratories.
- j. Automobile repair, automobile services, garages.
- k. Establishments rendering amusement and recreational services including motion picture theaters.
- $\frac{\Box}{\infty}$ l. Elementary and secondary schools, colleges, universities, professional schools, junior colleges, vocational schools, and public and private libraries.
 - All commercial and manufacturing establishments not included in this section will institute such actions as will result in maximum reduction of air pollutants from their operation by ceasing, curtailing or postponing operations which emit air pollutants to the extent possible without causing injury to person or damage to equipment.
- 5. The use of motor vehicles is prohibited except in emergencies with the approval of local or state police.
- 6. Unnecessary lighting, heating or cooling in unoccupied structures is prohibited.

Source of Air Pollution

1. Coal or oil-fired electric power generating facilities.

Required Control Action

- a. Maximum reduction by utilization of fuels having lowest ash and sulfur content.
- b. Maximum utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing or soot blowing.

dFISODE TABLE III CONTINUED

- Coal, oil, natural gas, wood, bark and bagassee - fired process steam generating facilities:
- 3. Manufacturing industries of the following classifications:
 Pulp and paper industries
 Citrus industries
 Mineral processing industries
 Phosphate and allied chemical industries
 Secondary metal industries
 Petroleum operations
- 4. Bulk handling operations which transfer or store material including but not limited to:

 Cement

Phosphate Rock Grain ROP Triple Super Phosphate Lime Sand and Gravel Dolomite

Fertilizer

- c. Maximum reduction by diverting electric power generation to facilities outside of emergency area or to generating stations emitting less pollutants per kilowatt generated.
- a. Maximum by reducing heat and steam demands to absolute necessities consistent with preventing equipment damage.
- b. Maximum utilization of mid-day (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing or soot blowing.
- c. Taking the action called for in preplanned emergency action plan.
- a. Continuation of preplanned abatement strategies for the elimination of air pollutants.
- b. Elimination of air pollutants from trade waste disposal operations which emit air pollutants.
- a. Elimination of fugitive dust by ceasing, curtailing, postponing or deferring transfer or storage of material.

GRISODE TABLE III CONTINUED

- ¹5. Any other industrial or commercial establishments which emit air pollutants.
- a. Elimination of air pollutants by ceasing, curtailing, postponing or deferring operations.
- b. Elimination of air pollutants from trade waste disposal process which emit air pollutants.

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- (b) Preplanned Abatement Strategies any person responsible for one or more air pollutant sources shall prepare and submit, upon written request from the Department, a stand-by plan which describes the action which will be taken by that person to reduce emissions when an episode is declared. The plan shall be submitted within 30 days of the request and will be subject to approval, modification or rejection by the Department. The plan shall be in writing and shall include but not be limited to:
 - 1. Identity and location of pollutant sources and of contaminants discharged.
 - 2. Approximate amount of normal emission and of reduction of emission expected.
 - 3. A brief description of the manner in which reduction will be achieved, for each of the episode levels, alert, warning and emergency.
- (c) Whenever during an episode (alert, warning, or emergency) any person responsible for the operation of a source or conduct of activities which result in emission of air pollutants does not take actions as required for the source or activity for the declared episode level or put into effect the Preplanned Abatement Strategy, the Director shall immediately institute proceedings in a court of competent jurisdiction for injunctive relief to enforce this chapter.

General Authority 403.061 FS. Law Implemented 403.021, 403.031, 403.061 FS. History - New 1-11-72.

17-2.07 Sampling and Testing

(1) All persons shall, upon request of the Department, provide continuous automatic monitoring testing and records of contaminants being emitted from a source.

- (2) All persons shall provide facilities for continuously determining the input process weight or input heat when such factors are the basis for limiting standards.
- (3) A person responsible for the emission of air pollutants from any source shall, upon request of the Department provide in connection with such sources and related source operations, such sampling and testing facilities exclusive of instruments and sensing devices as may be necessary for the proper determination of the nature and quantity of air pollutants which are, or may be emitted as a result of such operation.
- (4) Such facilities may be either permanent or temporary at the discretion of the person responsible for their provision and shall be suitable for the use of methods and equipment acceptable to the Department, who shall indicate in writing the required size, number and location of sampling holes; the size and location of the sampling platform; and the utilities for operating the sampling and testing equipment. The facilities shall comply with all applicable laws and regulations concerning safe construction and safe practice in connection with such facilities.
- reason to believe that the provisions of this chapter concerning emission of pollutants are being violated, it may require the person responsible for the source of pollutants to conduct tests which will identify the nature and quantity of pollutant emissions from the source and to provide the results of said tests to the Department. These tests shall be carried out under the supervision of the Department, and at the expense of the person responsible for the source of pollutants.

- (6) All analyses and tests shall be conducted in a manner specified by the Department. Results of analyses and tests shall be calculated and reported in a manner specified by the Department.
- (7) Analyses and tests for compliance may be performed by the Department at the cost of the person responsible for the emission of air pollutants.

General Authority 403.061, 403.101 FS. Law Implemented 403.021, 403.031, 403.061, 403.101 FS. History - Revised 1-11-72.

17-2.08 Local Regulations. Regulations controlling air pollution may be adopted by local governmental authorities provided that such regulations shall not be in conflict herewith or that standards so adopted shall not be less stringent than those established herein.

General Authority 403.061, 403.182 FS. Law Implemented 403.021, 403.031, 403.061, 403.182 FS. History - Formerly 17-2.09, FAC.

STATEMENT OF REASONS FOR AND PURPOSE OF ADOPTING THE RULES

On December 31, 1970, the Congress of the United States enacted the Federal Clean Air Act of 1970. This act requires each state to adopt ambient air quality standards and rules and regulations to achieve and maintain those standards. The State of Florida Department of Pollution Control, in order to comply with the Clean Air Act, had to completely revise Chapter 17-2, FAC.

The reason for this revised chapter is to eliminate, prevent, and control air pollution; and to protect and enhance the air quality of Florida.

The purpose of this chapter is to achieve and maintain such levels of air quality as will protect human health and safety, prevent injury to plant and animal life and property, foster the comfort and convenience of the people, promote the economic and social development of this state and facilitate the enjoyment of the natural attractions of this state.

SECTION IV

COMPLIANCE SCHEDULE AND

REVIEW OF NEW SOURCES AND MODIFICATIONS

According to Chapter 17-4, Florida Administrative Code which became effective March 3, 1970, a permit is required for the operation, construction or expansion of any installation that may be a source of air pollution. Authority resides with the Department of Pollution Control for issuance, rejection or revocation of such permits (Chapter 17-4, FAC attached in the Appendix along with blank copies of permit applications).

Pursuant to adoption of this Rule, all the existing sources in the state were given one year to apply for a permit and new ones were allowed only after issuance of construction permits. As a result, all the sources of air pollution have been brought into the permit system.

Compliance Schedules

It is the intent of the Department of Pollution Control to utilize the Permit System of the state and Administrative Enforcement Procedures to obtain compliance with set time schedules, the installation of emission control equipment and meeting emission standards.

All facilities which emit pollutants greater than 100 tons/year will be reviewed and permits for these facilities will have attached conditions or implementation schedules for compliance. Under provisions of Chapter 403, Florida Statutes, and Chapter 17-4, FAC, the issuance of a permit, with conditions, has the full force of law and backing by legal action. In the event a facility is recalcitrant, the use of Administrative Notices and Orders, Chapter 403, will be utilized to provide the implementation schedule.

It is anticipated that a system of priorities will be utilized to review all facilities as mentioned above. Major sources such as phosphate, power, pulp and paper, sugar and citrus will be the first facilities reviewed.

An effort will be made to bring all the major sources in the state under a compliance schedule by the date of the first semi-annual report (December, 1972).

As with current adopted procedures of the State of Florida, the compliance schedule will set forth the following dates, all of which shall be no greater than July, 1975.

- A Preliminary Plans Submittal
- B Final Plans Submittal
- C Construction Beginning
- D Scheduled Completion

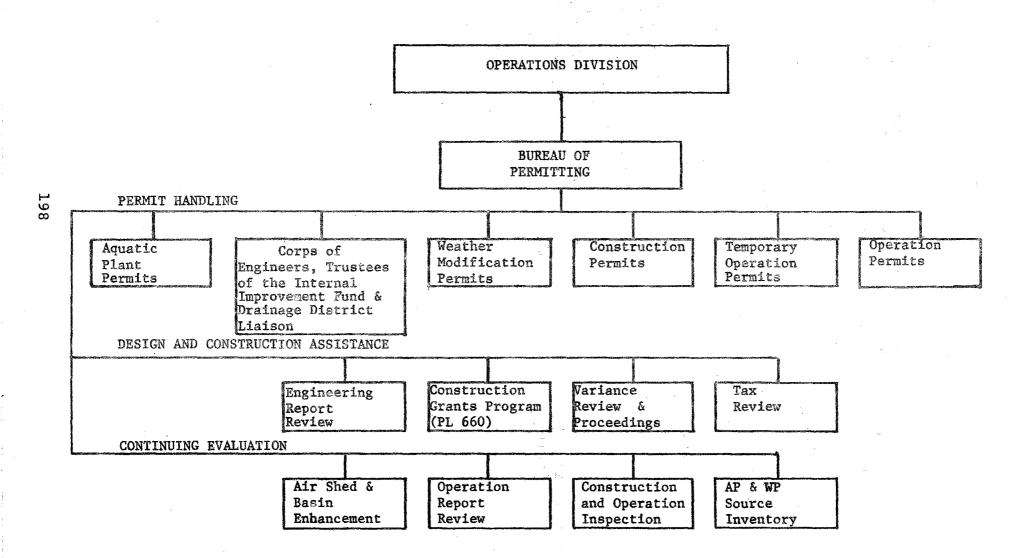
Review of New Sources and Modifications

The functions of the Bureau of Permitting within the Department of Pollution Control have been outlined in the following page. For handling these permit applications, procedures and general guidelies have been worked out and are presently followed. Attached also in the following pages are the flow diagram of the permit handling system and some of the guidelines specifically designed for incinerators and air pollution sources.

FIGURE 65

STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTROL

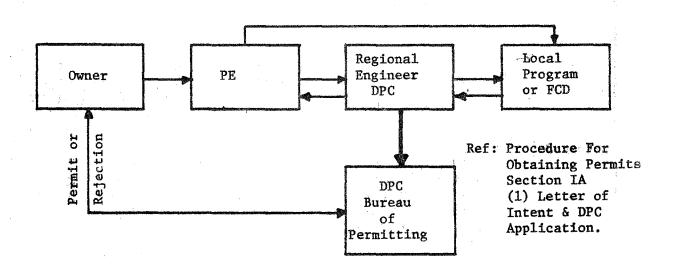
Major Program Areas - Bureau of Permitting

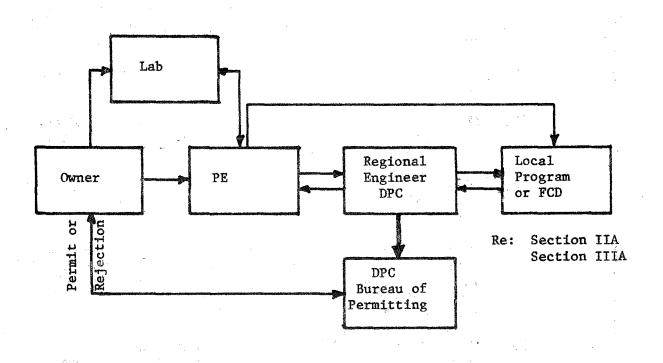


PERMIT FLOW DIAGRAMS:

Ref: DPC Procedure for Obtaining Permits (Form G)

I. Permit to Construct New Sources of AP, IW, and Inc.





199

FIGURE 66

I. AIR POLLUTION

- A. General Application Review by the DPC Regional Office.
 - 1. There should be at least four applications.
 - 2. If in area of local programs, and there is no indication that the local program has been supplied an application, one application should be forwarded to the program for review and comments prior to DPC action.
 - 3. Page 1-C should contain the names and addresses of the applicant and project engineer. It is very important that both applicant's and P.E.'s signatures in ink on all copies appear in the application (Applicant's signatures on page 2-C).
 - 4. The location of the pollution source must be specified. Only the city or county is not adequate. The street address or suitable location description (for example: U.S. Highway 1, 8 miles South of Junction with State Road 40) should be specified. Locate also by longitude and latitude or UTM Grid Coordinates.
 - 5. The type of pollution source should be clearly specified. (sugar mill; asphalt plant; boiler; dryer; crusher, etc.)
 - 6. Appropriate box on left hand side of page should be filled in.
 - 7. The application should be dated although if not, date of application which will appear in the permit will then be estimated.
- 8. Estimated schedule of construction of project should be completed on page 2-C. This is important for permit duration scheduling.
- 9. If the signature is by an agent on page 2-C then there shall accompany the application a letter of authorization from a corporate officer of the company stating that the individual whose signature does appear on application is authorized.
 - 10. The estimated cost of the proposed control facilities on page 30 should be specified. This information is required for the filing of quarterly and annual reports.

- 11. Items 2, 3, and 4 (flow diagrams and plot plans) should accompany the application, the size as indicated (8 1/2 X 11) does not necessarily restrict the drawings to this size, it merely facilitates easier filing of permit applications.
- 12. On page 3-C in Section I-A under General, the listing of raw materials and/or chemicals used should be filled out completely. The information provides useful data for chemical balance determinations.
- 13. Page 4-C Item B, <u>Fuels</u> shall be filled out completely. Most fuel distributors are willing to supply their customers with BTU gross heat output of their respective fuels. Again this item relates to combustion efficiency.
- 14. Where applicable item C should be filled out for process weight table and emission comparisons in accordance with the code under chapter 17-2.
- 15. Operating hours in Section I-D must be filled out, again this provides the necessary data for calculations of weight and emission tables under chapter 17-2.
- 16. Identification of air contaminants on page 4-C should be filled out and if the contaminant does not appear listed it should be specified as indicated.
 - 17. Page 5-C III air pollution control devices should be filled out relating to the particular contaminant. The description of the controls or control device should be brief, accurate and informative with any necessary drawings to be supplied. It should be noted that enclosures of this control equipment should be noted.
 - 18. Where applicable on page 6-C there should be a complete contaminant balance listing which when added up should balance out (input to output). Observe note at bottom of page 6-C. This could involve more than one stack in which case the applicant should be encouraged to file an application for each stack.
 - 19. Page 7-C, Section V discharged emissions to atmosphere should relate to the flow diagram with accurate data of the discharge point. Temperature at discharge point is important.

20. Section V-R, Tabulations of Discharged Contaminants is essential and should be listed as specific contaminants with GR./cu.ft. and lbs./day, and the totals should be shown at the bottom of this page under their respective columns.

II. Incinerator Review

- A. General Application Review by Regional Office.
 - 1. There should be at least four applications.
 - 2. Comments from local program should be secured prior to DPC action.
 - 3. If applicant is under enforcement, coordination should be made with Enforcement Bureau.
 - 4. The names and addresses of both the applicant (Corporate Officer, Owner or Authorized Agent), and Project Engineer must be present on page 1-E or 1-F. It is imperative that both the project engineer and applicant signatures appear on pages 1-E or 1-F and pages 2-E or 2-F respectively. Any absence of one of the above signatures will result in rejection with applications returned for appropriate signatures. If anyone other than the owner or a corporate officer signs as the applicant, a letter of authorization from the owner or a corporate officer must be attached.
 - 5. The exact location of the incinerator must be specified. (Street address and city) UTM or Latitude and Longitude should also be indicated.
 - 6. The establishment served and its address should be specified.
 - 7. The appropriate box under Permit Applied for should be filled in and dated, although if not, date of application which will appear in permit can be estimated.
 - 8. It is strongly recommended in construction permit applications and necessary in operation permit applications that the name, address, and signature of person in charge of incinerator operation be contained on the first page.

- 9. The application should be dated, although if not, the date of application which will appear in the permit, can be estimated.
- 10. In addition to completed applications the following should be submitted in at least quadruplicate:
 - a. Plot plans adequately locating the incinerator and establishment served, and showing the location, type, and height of all buildings within a five hundred foot radius of the incinerator stack.
 - b. Drawings of the incinerator and appurtenances in sufficient detail for evaluation of air pollution aspects (also water pollution aspects if scrubber is provided).
 - c. Incinerator operating instructions.
 - d. If the application is for an incinerator operation permit, a report of test results must accompany the application (except for pathological incinerators of less than 100 pounds per hour capacity, and tee pee burners.)
- 11. The following information on page 3-F must be completed for all incinerators:
 - a. Type waste to be burned.
 - b. Description of waste.
 - c. Composition of waste: combustible, noncombustible, moisture and heat valve.
 - d. Unit quantities of waste generated.
 - e. Number of waste generating units.
 - f. Total waste generated per day.
 - g. Hours of operation.
 - h. Design capacity.
 - i. Manufacture and model number.
 - j. Approximate cost.

- k. Primary chamber data.
- 1. Air requirement data.
- m. Stack data.
- n. Ash pit data.

The remaining information must be completed where appropriate. (For example, burner data if burners are provided or scrubber and detention tank data if a scrubber is utilized.

- 12. Stack must be capable of withstanding 1800°F.
- 13. Height or stack must be 10 feet higher than top of any building within 100 feet.
- 14. A 3 1/2" I.D. test port installed in the incinerator stack at a point of uniform flow, ie: at a point at least 8 stack diameters from the nearest restriction, is necessary. A stack extention, which should generally be 10 feet in length, having the same inside diameter as the stack and having 3 1/2 inch I.D. test ports, 3 feet from one end, can be used in testing.

SECTION V

AIR QUALITY SURVEILLANCE

The selection and distribution of air quality surveillance equipment in Florida is based on Federal Register, Volumn 36, No. 158 dated August 14, 1971 and Air Region Priority Classifications. A total of 23 items of continuous monitoring equipment and 58 items of periodic sampling equipment have been identified. Table XII shows the equipment allocated for each region under the assigned priorities, and Table XIII shows the equipment acquisition schedule.

Figures 67 to 72 are maps of the six Air Quality Regions in Florida showing the general location of the equipment identified in Table XII. The UTM locations and installation date are given in Table XIV.

It should be noted that Florida's Northwest and Northeast Regions are interstate regions and only the Florida portion of the equipment allocated to those regions is accounted for on the maps. Final selection of the exact locations of each item shown will be made based on an analysis of the situation at the time the equipment is acquired. Timetable for New Equipment (See attached acquisition schedule)

Continuous Monitoring Trailers:

1971-72: Miami, Jacksonville and Tampa Special partially equipped trailer in Gainesville

1972-73: Seven trailers requested in FY 72/73 budget

1973-74: Eight trailers (not necessarily the fully equipped, all encompassing trailers, but will be portable-perhaps mobile) projected for a total of 19 to complete continuous network

| Manual Samplers: | 1971-72 | 1972-73 |
|--|------------------|---------|
| Hi-Volume Samplers SO ₂ and NO ₂ Bubblers | 35 ³⁵ | |
| (Combined boxes) | ···· ·5 | 15 |

TABLE XII

| | Region Popula- tion | % of Inter- State Region | Partic- ulates | SO ₂ Bubbler & Continuous | CO Continuous | NO Bubbler | 0 X Continuous | Needs/Region |
|---|---------------------------|--|---|--|------------------|-----------------------|----------------------|---|
| Northwest Pensacola (Interstate) | 497X | 24% 2,112K | Pri. I 3 Hi-Vols 2 Tapes Continuous | Pri. I 2 Bubblers 1 Continuous | Pri. III | Pri. III | Pri. I 1 Continuous | 3 Hi-Vols 2 SO ₂ Bubblers 2 Trailers |
| Northeast Jacksonville (Interstate) | 1.,114K | 25% 1,316K | Pri. I 9 Hi-Vols 4 Tapes Continuous | Pri. II 3 Bubblers 1 Continuous | Pri. III | Pr. III | Pri. I 3 Continuous | 9 Hi-Vols 3 SO ₂ Bubblers 4 Trailers |
| W. Central | 1,491K | antifolium varianteen (***) 1. Januarie en | Pri, I 11 Hi-Vols 6 Tapes Continuous | Pri. I S Bubblers 3 Continuous | Pri. III | Pri. I 10 Bubblers | Pri. III | 11 Hi-Vols 8 SO ₂ Bubblers 10 NO _X Bubblers 6 Trailers |
| Central | 715K | mer Ten (M) addison 7, SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS | Pri. II 3 Hi-Vols 1 Tape Continuous | Pri. III 1 Bubbler | Pri. III | Pri. III | Pri. III | 3 Hi-Vols 1 SO ₂ Bubbler 1 Trailer |
| Southeast | 2,415% | | Pri. II 3 Hi-Vois 1 Tape Continuous | Pri. III 1 Bubbler | <u>Pri. III</u> | Pri. I | <u>Pri. III</u> | 3 Hi-Vols 1 SO ₂ Bubbler 10 NO ₂ Bubbles 1 Trailer |
| Southwest | 349K | | Pri. III 1 Hi-Vol | Pri. III 1 Bubbler | <u>Pri. III</u> | Pri. III | Pri. III | l Hi-Vol l SO ₂ Bubbler |

30 Hi-Vols 16 Bubblers 14 Tapes 5 Continuous

20 Bubblers

4 Continuous

NOTE: Eleven of the above trailers are intended to be completely equipped. At the minimum, the trailers will staisfy EPA requirements.

| 71-72 | | 72-73 | | 73-74 | |
|------------------------------------|----|---|------------------|--------------------------|---------------------------------------|
| HI-VOLS | 35 | HI-VOLS | | HI-VOLS | · · · · · · · · · · · · · · · · · · · |
| SO ₂ BUBBLERS | 5 | SO ₂ BUBBLERS | 16 | so ₂ BUBBLERS | |
| NO _X BUBBLERS | 5 | NOX BUBBLERS | 15 | NO _X BUBBLERS | • |
| TRAILERS SOILING CO SO2 NO2 03 THC | 4 | TRAILERS | 7 | *TRAILERS | 8 |
| | | | | | |
| AUTO TECHS | 3 | AUTO TECHS | 6 | AUTO TECHS | 3 |
| | | MANUAL TECHS A.P. SPEC. INSTRUMENT SPEC. ENGINEER | 3 1 1 1 | MANUAL TECHS | 3 |
| | | | | | *, |

FUNDED REQUESTED PROJECTED

ACQUISITION SCHEDULE
EQUIPMENT & MANPOWER
FOR AIR 71-72 TO 73-74

^{*}Not necessarily the fully equipped all encompassing trailers, but will be portable & perhaps mobile

NETWORK DESIGN
Preliminary

EPA Minimum

DATA SYSTEM DESIGN
Laboratory Data
Continuous Data

EQUIPMENT PROCUREMENT

Acquisition Schedules

NETWORK IMPLEMENTATION

Site & Selections

Local Program Coordination

Data System Implementation & Operation

(Manual)

(Continuous)

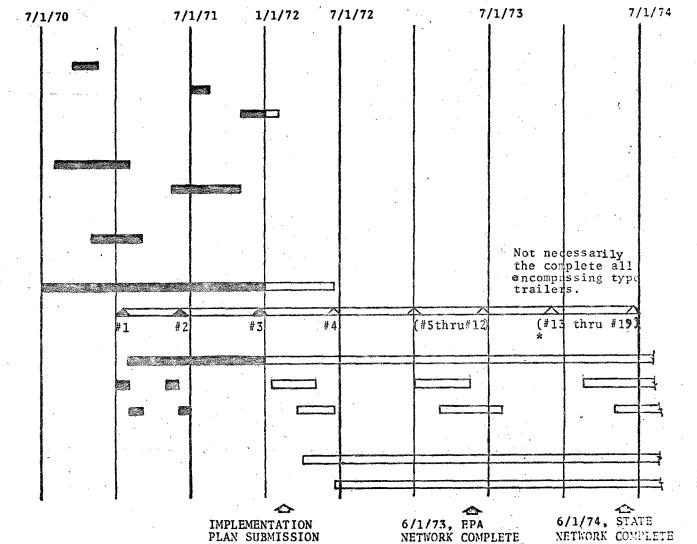
Equipment Installations

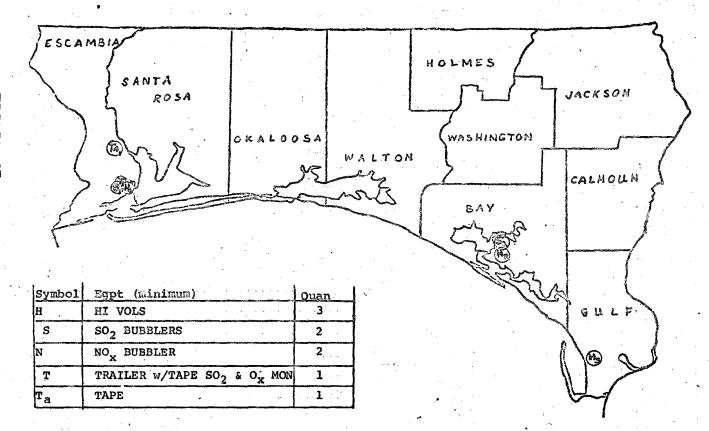
(Manual)
(Continuous)

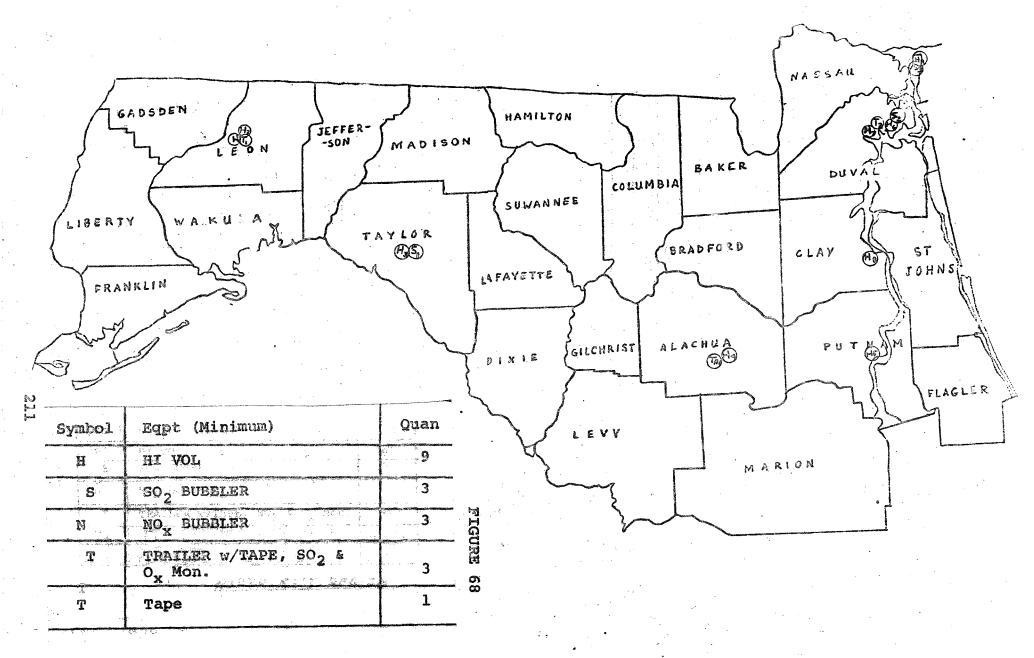
Specifications

Revised

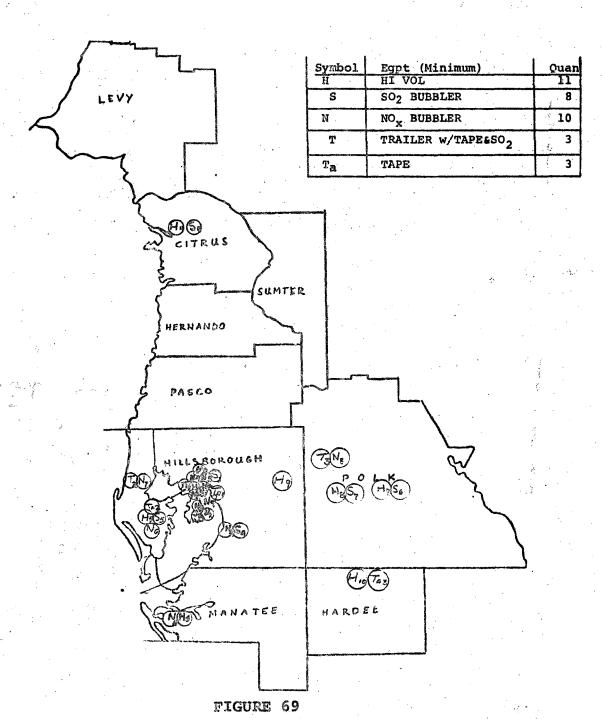








NORTH EAST REGION



WEST CENTRAL REGION

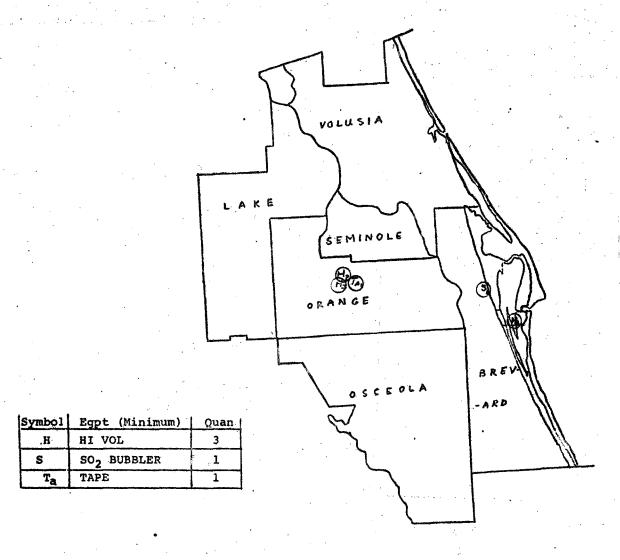
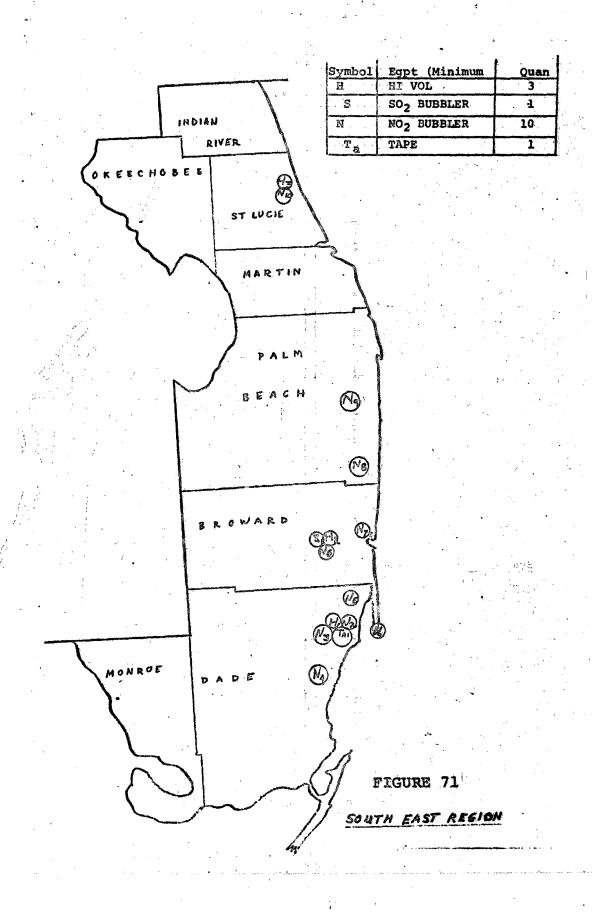
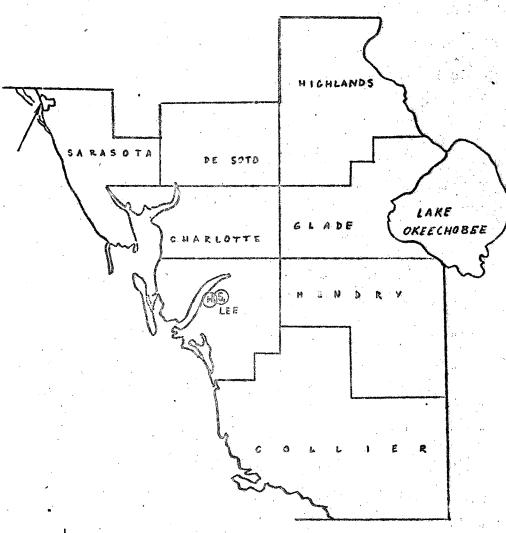


FIGURE 70

CENTRAL REGION





| Symbol | Egpt (Minimum) | Quan |
|--------|-------------------------|------|
| H | HI VOL | 1 |
| S | SO ₂ BUBBLER | 1 |

FIGURE 72

SOUTH WEST RESION

TABLE XIV

Northwest Region Air Quality Surveillance System

| Equipment | Proposed Location (UTM, 10°M) | Latest Date Installation Expected |
|---|-----------------------------------|---|
| (H ₁) Hi Vol | 16 - 479.5 - 3362.8 | June, 1972 |
| (H ₂) Hi Vol | 16 - 628.7 - 3335.6 | June, 1972 |
| (H ₃) Hi Vol | Lat. 29048'40" Long 85018'04" | June, 1972 |
| (S ₁) SO ₂ Bubbler | 16 - 479.5 - 3362.8 | June, 1972 |
| (S ₂) SO ₂ Bubbler | 16 - 630.0 - 3345.1 | June, 1973 |
| (T ₁) Trailer w/Tape SO ₂ & O ₃ Mon. | 16 - 478.1 - 3367.9 | June, 1973 |
| (TA ₁) Tape Sampler | 16 - 468.1 - 3386.0 | June, 1974 |
| Northeas | t Region Air Quality Surveillance | System |
| (H ₁) Hi Vol Sampler | 16 - 759.1 - 3369.4 | June, 1972 |
| (H ₂) " " " | 16 - 760.8 - 3370.7 | June, 1972 |
| (H ₃) " " " | Lat. 30°07'20" Long 83°35'03" | June, 1972 |
| (H ₄) " " " | 17 - 370.0 - 3280.7 | June, 1972 |
| (H ₅) " " " | 17 - 437.9 - 3279.8 | June, 1972 |
| (H ₆) " " " | 17 - 446.3 - 3361.5 | June, 1972 |
| (H ₇) " " " | 17 - 439.3 - 3356.5 | June, 1972 |
| (H ₈) " " | 17 - 424.9 - 3318.3 | June, 1972 |
| (H ₉). 41 · 41 · 11 · 11 · · · · · · · · · · · | 17 - 456.5 - 3393.2 | June, 1972 |

Northeast Region Air Quality Surveillance System (Cont.)

| <u>Equipment</u> | Proposed Location (UTM, 10 ³ M) | Latest Date Installation Expected |
|---|--|-----------------------------------|
| (S ₁) SO ₂ Bubbler | Lat. 30°07'20" Long 83°35' | June, 1973 |
| (S ₂) SO ₂ Bubbler | 17 - 446.3 - 3361.5 | June, 1972 |
| (S ₃) SO ₂ Bubbler | 17 - 456.5 - 3393.2 | June, 1973 |
| (\mathfrak{D}_1) Trailer w/Tape, \mathfrak{SO}_2 and \mathfrak{O}_X Monitors | 16 - 760.8 - 3370.7 | June, 1973 |
| (\mathbb{T}_2) Trailer w/Tape, \mathbb{SO}_2^2 and $\mathbb{O}_{\mathbf{x}}$ Monitors | 17 - 435.5 - 3356.4 | June, 1972 |
| (TA ₁) Tape Sampler | 17 - 370.0 - 3280.7 | June, 1972 |
| | CENTRAL REGION | |
| (\mathbb{H}_1) Hi Vol Sampler | 17 - 529.4 - 3136.6 | June, 1972 |
| (H ₂) Hi Vol Sampler | 17 - 464.1 - 3157.4 | June, 1972 |
| (H ₃) Hi Vol Sampler | 17 - 465.8 - 3162.7 | June, 1972 |
| (S ₁) So ₂ Bubbler | 17 - 518.8 - 3162.8 | June, 1972 |
| (TA ₁) Tape Sampler | 17 - 465.8 - 3162.7 | June, 1973 |

West Central Region Air Quality Surveillance System

| Equipment | Proposed Eccation (UTM, 10°M) | Latest Date to Installation Expected |
|---|-------------------------------|--------------------------------------|
| (H ₁) Hi Vol Sampler | 17 - 358.6 - 3094.2 | June, 1972 |
| (H ₂) " " " | 17 - 358.9 - 3091.3 | June, 1972 |
| (H ³). " " " | 17 - 353.5 - 3085.6 | June, 1972 |
| (H ₄) " " | 17 - 355.0 - 3063.9 | June, 1972 |
| (H ₅) " " " | 17 - 335.6 - 3073.5 | June, 1972 |
| (H ^e) " " " | 17 - 344.8 - 3041.7 | June, 1972 |
| (H.) " " " " | 17 - 417.1 - 3085.5 | June, 1972 |
| (H ₈) " " " | 17 - 403.3 - 3086.0 | June, 1972 |
| (H ₉) # # # | 17 - 390.3 - 3099.4 | June, 1972 |
| (H ₁₀)"" | 17 - 421.4 - 3041.1 | June, 1972 |
| (H ₁₁) " " " | 17 - 345.2 - 3197.7 | June, 1972 |
| (S ₁) SO ₂ Bubbler | 17 - 358.9 - 3091.3 | June, 1972 |
| (S ₂) " " | 17 - 353.5 - 3085.6 | June, 1973 |
| (S ₃) + 10 Car - 20 | 17 - 355.3 - 3091.0 | June, 1973 |
| (S ₄) " " | 17 - 355.0 - 3063.9 | June, 1973 |
| (S ₅) " " | 17 - 335.6 - 3073.5 | June, 1972 |
| (s ₆) " " | 17 - 417.1 - 3085.5 | June, 1973 |
| (S ₇) " " | 17 - 403.3 - 3086.0 | June, 1973 |
| (\$ ₈) " " | . 17 - 345.2 - 3197.9 | June, 1973 |

West Central, Continued

| Equipment | Proposed Location (UTM, 10°M) | Latest Date Installation Expected |
|---|-------------------------------|---|
| (N ₁) NO _x Bubbler | 17 - 358.6 - 3094.2 | June, 1972 |
| (N ₂) " " | 17 - 353.5 - 3085.6 | June, 1972 |
| (N ₃) " | 17 - 356.8 - 3102.4 | June, 1973 |
| (N ₄) " " | 17 - 358.3 - 3093.6 | June, 1973 |
| (N ₅) " " | 17 - 355.3 - 3091.0 | June, 1973 |
| (N ₆) " " | 17 - 335.6 - 3073.5 | June, 1973 |
| (N ₇) " " | 17 - 324.6 - 3094.7 | June, 1973 |
| (N ₈) "" | 17 - 405.8 - 302.7 | June, 1973 |
| (N ₉) " " | 17 - 358.9 - 3091.3 | June, 1973 |
| (N ₁₀) " " | 17 - 344.8 - 3041.7 | June, 1973 |
| (T ₁) Trailer w/ Tape & SO ₂ Mon. | 17 - 348.5 - 3093.0 | June, 1972 |
| (T ₂) Trailer w/ Tape & SO ₂ Mon. | 17 - 324.6 - 3094.7 | June, 1973 |
| (T ₃) Trailer w/ Tape & SO ₂ Mon. | 17 - 405.8 - 3102.7 | June, 1974 |
| (TA ₁) Tape Sampler | 17 - 358.9 - 3091.3 | June, 1973 |
| (TA ₂) Tape Sampler | 17 - 335.6 - 3073.5 | June, 1974 |
| (TA ₃) Tape Sampler | 17 - 421.4 - 3041.1 | June, 1974 |

Southeast Region Air Quality Surveillance System

| Equipment | Proposed Location | Latest Date Installation | |
|---|---------------------|-----------------------------|--|
| on the action | (UTM, 10 3 M) | Expected | |
| (H ₁) Hi Vol. Sampler | 17 - 579.2 - 2852.8 | June, 1972 | |
| (H ₂) " " " | 17 - 576.6 - 2883.8 | June, 1972 | |
| (H3) II II II | 17 - 565.7 - 3035.6 | June, 1972 | |
| (S ₁) SO ₂ Bubbler | 17 - 576.6 - 2883.8 | June, 1972 | |
| (N_1) NO $_{\mathbf{x}}$ Bubbler | 17 - 586.9 - 2851.7 | June, 1973 | |
| (N ₂) " " | 17 - 579.2 - 2852.8 | June, 1972 | |
| (N ₃) " " | 17 - 572.7 - 2855.1 | June, 1973 | |
| (N ₄) " " | 17 - 567.3 - 2834.6 | June, 1973 | |
| (N ₅) " | 17 - 578.2 - 2868.6 | June, 1972 | |
| (N ₆) " | 17 - 576.6 - 2883.8 | June, 1972 | |
| (N ₇) " | 17 - 586.0 - 2889.2 | June, 1973 | |
| (N ₈) " " | 17 - 589.5 - 2917.0 | June, 1973 | |
| (N ₉) " " | 17 - 590.7 - 2956.0 | June, 1973 | |
| (N ₁₀) " | 17 - 565.7 - 3035.6 | June, 1973 | |
| (TA ₁) Tape Sampler | 17 - 579.2 - 2852.8 | June, 1972 | |
| 184 A 4 | Southwest Region | | |
| (H ₁) Hi Vol. Sampler | 17 - 419.8 - 2950.8 | June, 1972 | |
| (S ₁) SO ₂ Bubbler | 17 - 419.8 - 2950.8 | June, 1973 | |

Site Justification:

A. Northwest Region:

- H₁ Located in the downtown area of Pensacola and within the zone of influence of major sources.
- H₂ A Kraft Pulpmill (>1300 T.P.D. capacity) is located in this area (Panama City).
- H₃ ~ Located in Port St. Joe, site of major pulpmill (>1300 T.P.D. capacity)
- S₁ Same as H₁
- S₂ Located near a coal-fired steam electric power plant.
- T₁ Located in proximity of I-10 and major Pensacola St.
- TA₁- Located in small industrialized town (Cantonment).

B. Northeast Region:

- H₁, H₂ Located in Tallahassee, a small urban city.
- H₃ A large Kraft pulpmill, saw and lumber mills are located in this area.
- H₄ Located in Gainesville, a small urban city.
- H₅ Located in proximity to a large pulp mill.
- H₆ Two major point sources, a pulp and paper plant and a steam electric power plant, are in this area (North Jacksonville).
- H, Located in downtown Jacksonville.
- H₈ Located in area (Green Cove Springs) with small industry.
- Hg Located in proximity to two pulpmills.

S₁ - Same as H₃

S2 - Same as H6

S₃ - Same as Hg

T₁ - Located adjacent to U.S. Hwy. 90 and U.S. Hwy. 27.

T2 - Located along I-95 in Jacksonville.

TA₁- Located in Gainesville.

C. West Central Region

C

H₁, H₂, H₃ - Located in general area (Downtown Tampa) where the Hillsborough County Pollution Control has recorded maximum values.

H₄ - Located in Ruskin, site of T.E.C.D. Big Bend Station.

H₅ - Located in St. Petersburg

H₆ - Located in Bradenton

H₇, H₈ - Located in the general vicinity of the phosphate industry (Bartow and Mulberry)

H₉ - Located in Plant City, site of citrus and phosphate industries.

H₁₀ - Will record background concentration.

H₁₁ - Large oil-fired steam electric power plant located in area (Crystal River).

 S_1 , S_2 , S_3 - Same as H_1 , H_2 , H_3

 S_4 - Same as H_4

 S_5 - Same as H_5

 S_6 , S_7 - Same as H_7 , H_8

 S_8 - Same as H_{11}

N₁, N₂, N₃, N₄, N₅, N₉ - Located in downtown Tampa along main through-a-fares such as I-4 and I-75.

 N_6 - Same as H_5

N₇ - Located in Clearwater, a urban community

N8 - Located in Lakeland.

N₁₀- Located in Bradenton.

T1 - Located near I-75 and Tampa Intn's Airport.

 T_2 - Same as N_7

 T_3 - Same as N_8

 TA_1 - Same as H_2

TA₂ - Same as H₅

 TA_3 - Same as H_{10}

D. Central Region:

H₁ - Located on Merrit Island to determine Coastal Background.

H₂, H₃ - Located in Orlando, the largest city in this region.

S₁ - Located in proximity of two oil-fired steam electric power plants

 \mathtt{TA}_{1} - Same as \mathtt{H}_{2}

E. Southwest Region:

H₁ - Located near a large oil-fired steam electric power plant.

 S_1 - Same as H_1

Southeast Region:

- H₁ Located in proximity of downtown Miami
- H₂ Located downwind (Easterly winds are prevailing) from two large oil-fired steam electric power plants.
- H₃ Located in Ft. Pierce
- $\mathbf{S_1}$ Same as \mathbf{H}_2
- N_1 Located in the heavily traffic congested Miami Beach.
- N_2 Same as H_1

7

- N₃ Located near Miami International Airport and major traffic areas.
- N₄ Located along U.S. 1, Rockdale.
- N₅ Located in proximity of S.R. 826 (Palmetto Expressway) and I-95.
- N₆ Same as H₂
- N₇ Located in Downtown Ft. Lauderdale.
- N₈ Located in Boca Raton
- N_g Located along I-95 West Palm Beach
- N_{10} Same as H_3
- ${\tt TA_{1}}$ Same as ${\tt H_{1}}$

EMERGENCY EPISODE SURVEILLANCE SYSTEM

Northwest Region:

Particulate: H1, H2, H3, T4

Sulfur Oxides: S_1 , T_1

Photochemical Oxidants: T1

Northeast Region:

Particulate: H1, H3, H4, H7, H6, TA1, T2, T1

Sulfur Oxides: S_2 , S_3 , T_1 , T_2

Photochemical Oxidants: T2, T1

Central Region:

Particulates: H₁, H₂, TA₁

Sulfur Oxides: S1

West Central Region:

Particulates: H₁, H₂, H₄, H₅, H₈, T₁, T₂, TA₁

Sulfur Oxides: S1, S2, S4, S5, S7, T1, T2

Nitrogen Oxides: N1, N3, N5, N6, N7, T1, T2

'Southwest Region:

Particulates: H1

Sulfur Omldes: S₁

Southeast Region:

Particulates: H₁, H₂, TA₁

Sulfur Oxides: S1

Nitrogen Oxides: N1, N2, N3, N4, N5, N6, N7, N9

Sampling Schedule:

- A. High Volume samplers One 24 hr. sample every 6 days
- B. Tape sampler One sample every 2 hours
- C. SO₂ gas bubbler One 24 hr. sample every 6 days
- D. SO₂ monitor continuous
- E. Photochemical oxidant monitor continuous
- F. NO_X gas bubbler one 24 hr. sample every 14 days

Analytical Methods:

A. Automatic Analyzers now in use:

The following definitions apply in the listed sensor specifications:

Response time - The time interval from a change in the parameter being measured until the instrument registers 90% of the change.

Precision - The maximum deviation between the numerical values of two or more identical measurements.

Operating period - The period of time over which the analyzer can be operated and be expected to give meaningful results without the need of field maintenance, service, or adjustment.

The instrument performance specifications given in the following paragraphs shall be satisfied at all times with the specified operating temperature environment and power regulation are maintained.

WIND SPEED

Operating principle - Three cup anemometer

Range - 0 to 40 mph

Sensitivity - Initial sensitivity less than 0.80 mph

Precision - 0.5 mph in the range of 20-30 mph wind speed

Output - One pip per 0.5 miles of wind passage

Availability - An available instrument of this type is Wong EcoWind III.

WIND DIRECTION

Operating principle - Damped vane

Sensitivity - Responds to less than 0.80 mph wind speed

Output - Intermittent pips on 2 1/2" chart

Availability - See Wind Speed

SULPHER DIOXIDE

Operating principle - Flame photometric analysis utilizing the 394 mu-centered band emitted by sulfur containing compounds in a hydrogen-rich air flame.

Range - 0-1.00 ppm total sulfur as equivalent SO₂, based on dynamic span calibration gas concentrations provided during a calibration cycle.

Response - less than 15 seconds

Precision - + 1%

Output - 1 to 5 volts (linearizing amplification to be provided).

Operating period - 14 days unattended

Availability - An available instrument of this type is the Melpar, Model LL-1100-1, SO₂ analyzer.

NITROGEN DIOXIDE: (Mostly for emergency surveillance and short period concentration determination)

Operating Principle - Modified Griess Saltzman, colorimetric. (24 hour concentrations will be determined by Hochheiser method using bubblers)

Range - Adjustable 0 to 0.10 ppm/V, 0 to 8.0 ppm/V.

Response - less than three minutes

Output - 0 to 5 volts (amplification provided by bidder).

Operating period - 14 days unattended

Availability - An available instrument of this type is the Atlas Electric Devices Model 1303, NO₂ Analyzer.

SOILING INDEX

Operating Principle - In head light transmission, continuous sampling with lamp and detector out of sampling stream.

Range - 0 to 11.0 COH's per 1000 ft.

Output - 0 to 5 volts.

Operating Period - Approximately 30 days.

Availability - An instrument of this type is the Research Appliances Model 5000-A Filter Tape Sampler.

CARBON MONOXIDE TOTAL HYDROCARBONS AND METHANE

Operating Principle - Gas chromatograph utilizing flame ionization detection with dual column separation.

Repeatability - .5% full scale

Linearity - 1% of full scale

Ranges - field selectable 0-1, 05, 0-10, (any range for any parameter) 0-25 or 0-100 ppm.

Output - Individual, 0 - 1 volt signal, trend recording. 0 - 10 mv auxillary.

Operating Period - 14 days

Availability - An available instrument of this type is the Beckman Model 6800 Air Quality Chromatograph.

OXIDANTS

Operating Principle - Chemiluminescence using gas phase titration of ethylene with 03.

Range - 0-.01, 0-.1, 0-1.0, 0-1-, ppm selectable by switch.

Precision - ± 5%

Response - 5 seconds

Output - 0-5 volts

Operating Period - 14 days or greater

Availability - An available instrument of this type is the Bendix Ozone Analyzer.

B. Secondary Equipment

Gas Bubblers and wet chemistry analysis

SO₂ - Midget impingers (Pararosniline method)

NO2 - Fritted disc bubblers (Jacobs-Hochhelser method)

Older existing equipment

Hydrocarbons - Beckman 400 - flame - photometric

SO₂ - Beckman 906 - coulometry (buffered KI)

CO - Beckman 315AL - Non dispersive Infra-red

 NO_{X} - Beckman K-76 Acralyzer - $(O_{3}+NO+NO_{2})$

NO₂ - Atlas Electric, Motel 1303, - Modified
Greiss Saltzman

HI Volume Samplers - Hi Volume Samplers as specified in Appendix B of the Federal Register, Volume 36, No. 21, January 30, 1971.

Data Acquisition & Analysis

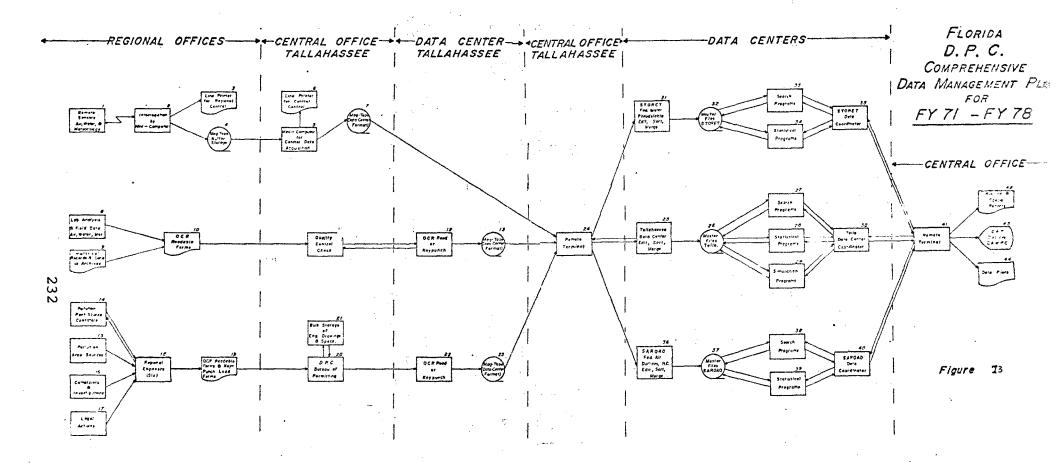
The Florida Department of Pollution Control intends to implement a consolidated data management system, including air, water and permit data functions. Considerable planning has been done toward this goal as outlined in the Department's "Data Management Plan 71-78".

From the data management plan, the air data acquisition and analysis can be separated into the following individual tasks to handle air data:

- 1. Automatic Data Storage
- 2. Manual Data Storage
- 3. Saroad Formatting
- 4. Retrieval and Manipulation

Referring to Figure 73 (Data Management Plan, page 7-A), Item I above is shown on the top left of the diagram. The elements of Item I include continuous analyzers at remote sites, telemetry using leased phone lines, and a central data logger (mini-computer) which writes the incoming data on magnetic tape. The magnetic tape is then the input to state's EDP center. At present, the remote terminal (24) is not a part of the system.

Item 2, the manual data system, is shown center left of Figure 73. Laboratory or archive data is typed on a preprinted machine and man readable form. The data is manually verified and the form is the input to the EDP center via an optical character reader.



Item 3, Saroad Formatting, comes directly from the EDP center. All incoming air data will be re-formatted onto cards or mag tape for direct entry into the Saroad data center.

Item 4, retrieval and manipulation, is the programs which provide data access on the state level and, in the future, cross-correlation between other functional data banks within the state system. The Department of Pollution Control is not currently projecting a need for data reduction beyond the capability available to the state through the use of Saroad.

A brief summary of the scheduled in-service completion dates for items one through four is shown below:

Automatic Data Storage March, 1972

Manual Data April, 1972

Saroad Formatting February, 1972

Retrieval & Manipulation June, 1972 to June, 1973

The above dates do not reflect a total system capability, but are based on having a workable system. For instance, remote terminal capability is not expected before late 1973 or 1974. The data flow, however, will be accomplished using conventional reports and verbal retrieval requests. Portions of the system are already nearly complete. A demonstration automatic data storage system, including the EDP interface, has been working reliably since June 1971.

SECTION VI

SOURCE SURVEILLANCE

Source surveillance was recognized very early in Florida as a necessary phase of an air pollution control program. A source sampling group has been established in central Florida, for several years, and is being maintained as a special source group. In addition to the special group, each region is being equipped with basic manpower and equipment to maintain at least one source sampling team designed to handle sources normally sized and constituted. For the larger and more complex problems the special source team will be called upon.

As another and equally important phase of surveillance, the State has developed a complaint and investigation system. Complaints are normally received at the Regional Offices by telephone or letter. If the nature of the complaint is significant or serious and occurs outside of office hours, a 24 hour phone number is available to anyone in the State for registering a complaint. Urgent complaints are investigated immediately, while others are investigated depending upon the work load. All complaints are followed up to a satisfactory conclusion. A complaint may result in a full investigation followed up with enforcement action or it may only require cooperation between Department personnel and pollution source owners for satisfactory resolution.

The source sampling program has been or is established in five of the six local control programs within the State. Dade, Duval and Manatee counties have well established source sampling teams. Hillsborough, and Broward counties are presently setting up a source sampling team. To date Palm Beach county has depended upon State technical assistance for source sampling. All local programs have complaint and investigation systems.

A visible emission limitations enforcement program is active at the State level in the investigative and enforcement program through Regional personnel and in a training program. Both local program and state personnel are trained for visible emissions determination by the use of a smoke generator and the Visible Emission Evaluation course conducted by State and Environmental Protection Agency personnel. The plan includes conducting the course frequently enough to maintain an adequately sized staff for visible evaluations. The course is being provided presently twice per year to about 30 trainees.

Visible emission limitations will be promulgated in proposed Chapter 17-2, Section 2.04 Florida Administrative Code, Prohibitive Acts. Other sections on stationary and mobile sources contain additional limitations. The proposed limitations are amendments to and expansions of existing rules, Chapter 17-2 Florida Administrative Code.

Legally enforceable procedures for requiring owners of stationary sources to sample sources and report emissions have existed in Florida rules for several years. Presently the proposed amendments to Chapter 17-2.07 Florida Administrative Code includes the requirement of automatic monitoring systems to be installed and operated by the source owner at the request of the Department. Reports of source emissions are required as a part of 17-4 Florida Administrative Code, Permits, and periodic reports are required as a condition of each Permit.

A program for periodic testing and inspection of sources is planned to interface with the computerized permit system presently being developed. The nature of the program will be one of response to the variability of source emissions for single or groups of sources, the historical validity of owners reports, the source location, concentration, and kinds of pollutants emitted relative to receptors and other factors which relate to the degree of agency control and abatement required.

The present source sampling and inspection program is keyed to requirements of permit issuance and enforcement actions.

SECTION VII

Resources

The resources for implementing and enforcing the plan for compliance with the National Ambient Air Quality Standard in Florida consists of air pollution control programs established at two levels of government. first, which has primary responsibility for implementing the plan, is the Florida Department of Pollution Control at the State governmental level and the second is the local air pollution control programs at the County governmental level. There are seven such County wide programs in the State, three in the Southeast Air Quality Region; Dade, Broward, and Palm Beach Counties, two in the West Central Air Quality Region; Hillsborough and Manatee County; one in the Northeast Air Quality Region, the Consolidated City of Jacksonville, and one in the Southeast Region, Sarasota County. As a result of review and requirements by the State organization pursuant to Chapter 403 Florida Statutes each of the Local Programs include the components necessary to implement and enforce an air pollution control program such as represented in the implementation plan.

The Florida Department of Pollution Control pursuant to Chapter 403 Florida Statutes is charged with the air pollution control responsibility for the State of Florida. The Department consists of a five man board, which is appointed by the Governor and acts as head of the Department, and an Executive Director and Office of the Executive Director, and three Departmental divisions. The Divisions are Administrative Services, Operations, and Planning.

The Office of the Executive Director includes the Information Section and the Legal Section. The Division of Administrative Services is made up of Fiscal and Accounting, Personnel Services and Training and Staff Services. The Division of Operations is made up of four bureaus; Bureau of Surveillance, Permitting, Field Services and Enforcement. The Division of Planning is made up of three sections; Section of Air Quality Management, Section of Air and Water Quality Standards Development and Section of Water Quality Management. The functions and activities of each Department bureau and section in general follow the descriptive name and rather

than define those activities in this paragraph they will be discussed during the description of the program components. It should be pointed out that the Division of Operations - Bureau of Field Services is the field arm of the entire Department and has offices located within each region.

Several factors should be considered in evaluating the Department of Pollution Control comments regarding Resources required for the State Plan.

The State of Florida, Department of Pollution Control, is currently operating under a Cost Accounting System, coupled with a "Planning Program Budgeting System" (PPBS) of the State. This system is based upon ten major programs as outlined in the attached memo of April 14, 1971. It should be realized that this program is currently being handled under the Data Management System of the Department of Pollution Control.

Realizing the Appendix K of 42CFR, Paragraph 420.20, is based upon similar type functions, expressed in other terms, the following relationship is requested to be approved.

Enforcement Services: Prosecution & Adjudication

(Enforcement)

Complaints/Investigations

Engineering Services: Permitting

Source Evaluations

Technical Services: Air Quality Monitoring

Special Projects

Management Services: Training/Education

Information Planning

Administration

This submission of Resources of the State of Florida is based upon the total State capability broken down into Air Quality Control Regions, including resources of the Local Programs in each region.

A Cost Accounting Data System of the Department of Pollution Control has been in use since the beginning of the fiscal year 1971-1972. The full development of its capability has not been utilized to date. But it does have the capability to set forth, by Regions or Cost Centers, all costs by program and earmarked as to salaries, other personnel services (contracts), expenses and operating capital outlay.

The attached table is submitted as information concerning the State of Florida's estimated needs and expenditures for the current year and future years. It should be realized that the information presented for the year 1971-1972 is based upon a few months of experience. The other years are based upon the Department of Pollution Control estimates submitted to the State Legislature as a Master Plan of the Department.

With respect to Local Programs of the State, a full evaluation of needs has not been accomplished within the time available for this submission. It is anticipated that Local Programs will be requested to develop and submit to the Department of Pollution Control similar type cost accounting information utilized by the Department of Pollution Control. In this way, actual and projected costs could be standardized for both the State and local areas.

NORTHWEST FLORIDA AIR QUALITY CONTROL REGION

Personnel Requirements

Man - Years

| • | | | • | | |
|---|--|---------|---------|---------|--|
| والمراقبة | anna garagan maganinan dipulipun di anahahan mananan di Anthonoga mendelahan di Bara di Sababbang menendahan Antara | 71 - 72 | 72 - 73 | 74 - 75 | 76 - 77 |
| aleman elemente por el elemente del la conseguir de per de la materia con el escribiro | | STATE | STATE | STATE | STATE |
| Enforce- | Enforcement | 0.4 | 0.5 | 0.5 | 0.8 |
| Services | Complaints/ Investigation | 0.3 | 0.4 | 0.4 | 0.6 |
| Engineer- ing | Permitting | 1.0 | 1.2 | 1.2 | 1.8 |
| Service | Source Sampling | 0.4 | 0.5 | 0.5 | 0.8 |
| Technical | Monitoring | 1.2 | 1.4 | 1.5 | 2.0 |
| Services | Special Projects | 0.2 | 0.2 | 0.2 | 0.3 |
| 239 | Training/ Education | 0.1 | 0.1 | 0.2 | 0.3 |
| Manage- | Information | 0.2 | 0.2 | 0.2 | 0.3 |
| ment Services | Planning | 0.2 | 0.2 | 0.2 | 0.3 |
| | Administration | 0.9 | . 1.1 | 1.1 | 1.8 |
| | Totals | 4.9 | 5.8 | 6.0 | 9.0 |
| | | | | | A CONTRACTOR OF THE PROPERTY O |

NORTHEAST FLORIDA AIR QUALITY CONTROL REGION

Personnel Requirements

Man - Years

| | · Land | 71- | 72 | 72 | -73 | 74 | - 75 | 75- | 76 |
|--|------------------------------|-------|-------|-------|-------|-------|-----------------|-------|-------|
| · ½ | d man | STATE | DUVAL | STATE | DUVAL | STATE | DUVAL | STATE | DUVAL |
| Enforce- | Enforcement | 0.9 | 3.0 | 1.1 | 3.0 | 1.5 | 3.0 | 1.8 | 3.0 |
| Services | Complaints/ Investigation | Q.7 | 1.0 | 0.8 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 |
| Engineer- | Permitting | 2.3 | 1.0 | 2.7 | 1.0 | 3.0 | 1.0 | 4.5 | 1.0 |
| Service | Source Sampling | 0.9 | 2.5 | 1.1 | 2.5 | 1.0 | 2.5 | 1.5 | 2.5 |
| Technical | Monitoring | 2.7 | 4.5 | 3.2 | 4.5 | 3.5 | 4.5 | 5.0 | 4.5 |
| Services | Special Projects | 0.4 | 1.0 | 0.5 | 2.0 | 0.5 | 2.0 | 0.8 | 2.0 |
| 239-A | Training/ Education | 0.2 | 1.0 | 0.2 | 1.0 | ð.4 | 1.0 | 0.6 | 1.0 |
| Manage- | Information | 0.4 | 0.5 | 015 | 0.5 | 0.5 | 0.5 | 0.8 | 0.5 |
| ment Services | Planning | 0.6 | 0.5 | 0.7 | 0.5 | 1.0 | 0.5 | 1.5 | 0.5 |
| | Administration | 2.0 | 0.8 | 2.4 | 0.8 | 2.6 | 0.8 | 4.0 | 0.8 |
| i Aliganis makai e e e e e e e e e e e e e e e e e e e | Totals | 11.1 | 15.8 | 13.2 | 16.8 | 15.0 | 16.8 | 22.0 | 16.8 |

| i. | | | | | | | Han - | Years | | | | | |
|--|------------------------------|---|-------------|--|-------|-------------------|---|-------|-------------------|-------------------|--|------------------|-----------|
| t t | 9 | Andreas and Principles of the State of | 71 - 72 | The state of the s | | 72 - 73 | | | 74 - 75 | | Anna Marian Control of the Control o | 76 - 77 | |
| AND THE PROPERTY OF THE PROPER | | STATE | ELMUGU | Panates | STATE | HILLS- BOSCUCH | \$52550m2g | STATS | EILLS- LOROVEN | MANATER* | STATE . | BOROUGH BLIMB | ·HANATEE* |
| Epforco- | Erforcement | 1.3 | 1.0 | 1.1 | 1.4 | 3.0 | 1.3 | 2.5 | 3.0 | 1.0 | 3.5 | 3.5 | 1.0 |
| Servicas | Complaisis/ Investigation | 0.9 | A = D | 2.1 | 1 | 2.0 | 2.0 | 1.5 | 2.5 | 2.0 | 2.0 | 3.0 | 2.0 |
| Englaces- | Downstaling . | 5.1 | 6.5 | 6.3 | 5.0 | 1.0 | 0.1 | 6.9 | 1.5 | 0.1 | . 5.0 | 1.5 | 0.1 |
| Eszvice | Scoree Sampling | 3 - 3 | 0-2 | Q.A. | a n | 0.3 | 0.3 | 3.5 | 0.5 | 6.2 | 2.5 | 2.0 | 0.3 |
| Technical | Menitoring | 5,5 | 4.5 | 2.0 | 6.6 | 5.5 | 2.5 | 6.5 | 6.5 | 2.0 | 9.0 | 7.5 | 2.0 |
| Services | Special Projects | 0.6 | 0 45 | 0.2 | 0.7 | 0.5 | Section 1. | 1.9 | 0.8 | #4.0 2 | 1.5 | 1.0 | mage. |
| elist 1999 gar retrain a deserciptura de | Training/ Education | 0.3 | 0.4 | 0.2 | O d | 0.5 | C.1 | 0.5 | 0.6 | 0.3 | 2.0 | 1,3 a. T | 0.1 |
| Managa- | Information | 7.5 | 9.4 | 6.2 | 0.7 | 0.3 | 9.1 | 1.9 | 9.6 | 0.1 | 3.5 | 0.7 | 0.1 |
| Dervices | Planning | 0.8 | 0.35 | 0.2 | 9.5 | 1.0 | 0.1 | 1.0 | 1.5 | 0.1 | 1.5 | 2.6 | 9.1 |
| | Administration | 3.7 | 2.3 | 0.5 | 4.2 | 3. 5 | 0.3 | 4.5 | 4.5 | 0.3 | 7.5 | 5.5 | 0.3 |
| | Totals | 20.0 | 11.75 | 7.0 | 23.1 | 17.0 | 6.0 | 26.0 | 22.3 | 6.07 | 33.0 | 25.4 | 6.0* |

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· Manates County Figures Assured to he the same on These

CENTRAL FLORIDA AIR QUALITY CONTROL REGION

Personnel Requirements

Man - Years

| | | 71 - 72 | 72 - 73 | 74 - 75 | 76 - 7 |
|--|------------------------------|------------|---------|---------|--------|
| and the second s | | STATE | STATE | STATE | STATE |
| Enforce- ment | Enforcement | 0.6 | 9.7 | 1.0 | 1.5 |
| Services | Complaints/ Investigation | 0.4 | 05 | e.0 | 0.3 |
| Engineer- ing | Permitting | 2.5 | 2.9 | 3.0 | 4.5 |
| Service | Source Sampling | 0.6 | 0.7 | 3.0 | 4.5 |
| rechnical (| Monitoring | 2.7 | 7.2 | 3.5 | 5.0 |
| Services | Special Projects | 0.3 | •4 | 0.5 | 0.8 |
| ¥ | Training/ Education | 0.2 | 0,2 | 0.5 | 0.8 |
| Manage- | Information | 0-3 | 0:4 | 0.5 | 0.8 |
| ment Services | Planning | 0.4 | 0.5 | 0.5 | 0.8 |
| | Administration | | 1.5 | 2.0 | 2.5 |
| | Totals | 9,3 | 11.0 | 13.0 | 19.0 |

SOUTHWEST FLORIDA AIR QUALITY CONTROL REGION

Personnel Requirements

Man - Years

| | | 71. | -72 | 72 | - 73 | 74. | - 75 | 76 | -77 |
|--|--|-----------|---------------|-------|-----------------|-------|---------------|--------|----------|
| Engrapping Market Park of Table (1962) Park 2 Market Park Park (1962) Park Park (1962) | Section Control of the Control of th | STATE | SARA- SOTA | STATE | SARA- SOTA | STATE | SARA- SOTA | STATE | SARASOTA |
| Enforce- | Enforcement | 0.3 | 0.1 | 0.3 | 0.1 | 0.5 | 0.1 | 0.8 | 0.1 |
| Services | Complaints/ Investigation | 0.2 | 0.5 | 0.2 | 0.5 | 0.2 | 0.5 | 0.3 | 0.5 |
| Engineer- | Permitting | 0.8 | 0.3 | 0.9 | 0.3 | 1.0 | 0.3 | 1.5 | 0.3 |
| Service | Source Sampling | 0.4 | 0.1 | 0.5 | 0.1 | 0.5 | 0.1 | 0.8 | 0 . 1 |
| Technical | Monitoring | 0.8 | 1.0 | 1.0. | 1.0 | 1.0 | 1.0 | | 1.0 |
| Services | Special Projects | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.2 | 0.8 | 0.2 |
| 23 1 1 | Training/ Education | C et aler | 0.1 | 0.1 | 0.2 | å.3 | 0.1 | Q. , 5 | 0.1 |
| Manage- | Information | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.2 | 0.5 | 0.2 |
| ment Services | Planning | 0 * 5 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.3 | 0.1 |
| | Administration | 0.7 | 0.4 | 0.8 | 0.4 | 1.0 | 0.4 | 1.0 | 0.4 |
| Landerner regionales à Bibliot (L'emple) or cross general de lande respectivement | Totals | 3.8 | 3.0 | 4.3 | 3.0 | 5.5 | 3.0 | 8.0 | 3.0 |

SOUTHEAST PLOSIDA AIR CUALITY CONTROL REGION

Personnel Requirements

| | • | | • | Na e | | • | ٠ | | Man - | Years | , | | The state of the s | A CHARLES PROPERTY AND A SERVICE | Commence of the State of the St | | |
|------------------------------|------------------------------|-------|---------|--------|------------------------------|-------|---------|--------|----------------|-------|---------|-----------------|--|----------------------------------|--|---------|--|
| - Marie Company | Ą | | 71 - | | Anna contractor and a second | | 7. | - 73 | | | 74 | - 75 | Or painted by production and the second sec | - | AND THE WAR PROPERTY OF THE PARTY OF THE PAR | 76 - 77 | - |
| | | gtate | ESONARO | DAPE. | ENCH? | STATE | DECMARD | DADE | PALM BEACH® | STATE | BROWARD | DADE | Seleno | STATE | PROMARD | CADE | Palan. |
| Enforce- | Enforcement | 1.9 | 0.63 | 1.0 | 0.0 | 2.2 | 0.50 | 1.0 | 0.8 | 2.5 | 0.53 | 1.0 | 0.8 | 4.0 | 0.56 | 1.0 | 0.8 |
| Services | Complaints/ Investigation | 1.5 | 2.65 | 1.0 | 0.7 | 1.8 | 2.09 | 1.0 | 0.7 | 2.0 | 2.12 | 1.0 | 0.7 | 3.0 | 2.25 | 1.0 | 0.7 |
| Ergineer- | Permitting | 2.1 | 0.29 | 9.5 | 0.3 | 2.7 | 0.23 | 0.5 | 0.3 | 3.0 | 2.44 | 0.5 | 0.3 | 3.0 | 2.59 | 0.5 | 0.3 |
| ing Cervice | Cource Sampling | 1.6 | 0.17 | 0.3 | 0.2 | 2.1 | 0.05 | 0.3 | 0.2 | 2.0 | 0.91 | 0.2 | 0.2 | 3.0 | 0.97 | 0.2 | 0,2 |
| Technical | Monitoring | 2.0 | 4.20 | 4.6 | 3.4 | 3.5 | 3.50 | 4.6 | 3.4 | 3.5 | 3.70 | 4.6 | 3.4 | 4.0 | 3.95 | 4.6 | 3.4 |
| Servicen | Special Projects | 0-8 | 0.10 | 0.5 | 9.3 | 1.1 | 0.35 | . è.5 | 0.3 | 1.0 | 0.37 | 0.5 | 0.3 | 2.5 | 0.40 | 0.5 | The state of the s |
| - | Training/ Education | 0.5 | 0.29 | 0.4 | 0.3 | 0.6 | 0.95 | 0.4 | 0.3 | 1.0 | 1.01 | 0.4 | 0.3 | 1.0 | 1.07 | 0.4 | 0.3 |
| Nanaga- | Information | 0.9 | 0.91 | 0.3 | 0.3 | 1:1 | 1.50 | 0.3 | ola | 1.5 | 1.58 | 0.3 | 0,3 | 1.5 | 1.69 | 0.3 | 0.3 |
| ment Services | Planning . | 1.2 | 0.05 | 0.3 | 0.2 | 1.4 | 0.10 | 0.3 | 0.2 | 1.5 | 0.11 | 0.3 | 0,2 | 1.5 | .1.13 | 0.3 | 9.3 |
| | Administration | 3.3 | 1.75 | 2.3 | 2.0 | 4,1 | 2.50 | 2.8 | 2.0 | 4.0 | 2.64 | 2.8 | 2.0 | 5.5 | 2,82 | 2.8 | 2.0 |
| se myelando frei argeneticae | Totals | 16.9 | 11.18. | 11.60* | 8.50* | 20.6 | 12.49 | 11.60* | 8.50* | 22.0 | 15.41 | 11.60* | 0.50+ | 29.0 | 17.43 | 11.60* | #.v #.50* |

*Local Program did not provide estimates
Figures are estimates by DFC and assumed to be the same each year.

NORTHWEST FLORIDA A_A QUALITY CONTROL REGION

Financial Requirements

| | | • | • | • | |
|--|------------------------------|---------|---------|---------|---------|
| | | 71 - 72 | 72 - 73 | 74 - 75 | 76 - 77 |
| Experimental and a state of the control of the cont | | STATE | STATE | STATE | STATE |
| Enforce- | Enforcement | 6.6 | 7.8 | 7.8 | 12.0 |
| Services | Complaints/ Investigation | 4.9 | 5.8 | 5.8 | 9.0 |
| Engineer- ing | Permitting | 17.2 | 20.4 | 20.0 | 30.0 |
| Service | Source Sampling | 6 . 6 | 7.8 | 8.0 | 12.0 |
| Technical | Monitoring | 19.7 | 23.4 | 23.4 | 34.0 |
| Services | Special Projects | 3,3 | 3.9 | 5.0 | 7.5 |
| N P O | Training/ Education | 1.6 | 1,9 | 2.0 | 3.0 |
| Manage- | Information | 3.3 | 3.9 | 4.0 | 6.0 |
| ment Services | Planning | 4.1 | 4.9 | 5.0 | 7.5 |
| | Administration | 14.8 | 17.6 | 19.0 | 26.0 |
| gan ng pangangan na maginga kalandan pangangan ng pangangan ng pangan na maganan | Totals | 82.1 | 97.4 | 100-0 | 150.0 |
| | | | | | |

NORTHEAST FLORIDA QUALITY CONTROL REGION

Financial Requirements

COST (\$ 1000)

| · | | 71-72 | | 72- | -73 | . 74 | -75 | 76 | -77 |
|------------------|------------------------------|-------|---|-------|--------|-------|-------|-------|-------|
| | | STATE | DUVAL | STATE | DUVAL, | STATE | DUVAL | STATE | DUVAL |
| Enforce- | Enforcement | 14.7 | 37.2 | 17.5 | 39.0 | 20.0 | 40.9 | 30.0 | 43.0 |
| Services | Complaints/ Investigation | 11.0 | DUVAL STATE DUVAL STATE DUVAL 37.2 17.5 39.0 20.0 16.6 13.1 17.4 14.0 14.6 46.0 15.3 46.0 29.6 17.5 31.1 18.0 67.5 52.5 70.8 55.0 10.6 8.8 24.1 9.0 14.3 4.3 15.0 5.0 6.3 8.8 6.6 9.0 9.3 10.9 9.8 12.0 12.5 39.4 13.1 42.0 | 18.3 | 21.0 | 19.2 | | | |
| Engineer- | Permitting | 38.7 | 14.6 | 46.0 | 15.3 | 46.0 | 16.1 | 69.0 | 16.9 |
| Service | Source Sampling | 14.7 | 29.6 | 17.5 | 31.1 | 18.0 | 32.6 | 27.0 | 34.2 |
| Technical | Monitoring | 44.2 | 67.5 | 52.5 | 70.8 | 55.0 | 74.4 | 82.5 | 77.8 |
| Services | Special Projects | 7.4 | 10.6 | 8.8 | 24.1 | 9.0 | 25.3 | 13.5 | 26.6 |
| 240-A | Training/ Education | 3.6 | 14.3 | 4.3 | 15.0 | 5.0 | 15.8 | 7.5 | 16.6 |
| Manage- | Information | 7.4 | 6.3 | 8.8 | 6.6 | 9.0 | 6.9 | 13.5 | 7.2 |
| ment Services | Planning | 9.2 | 9.3 | 10.9 | 9.8 | 12.0 | 10.3 | 18.0 | 10.8 |
| * | Administration | 33.1 | 12.5 | 39.4 | 1,3,.1 | 42.0 | 13.8 | 63.0 | 14.5 |
| | Totals | 184.0 | 218.5 | 218.8 | 242.2 | 230.0 | 254.4 | 345.0 | 266.8 |

| | | | | | | | COST | (1000 \$) | | | • | • | |
|------------------|------------------------------|-------|-------------------|---------|--------|------------------|---------|--|---------|-----------|-------|------------------|----------|
| | , | | 71 - 72 | | | 72 - 73 | | ************************************** | 74 - 75 | | | 76 - 77 | |
| * | | STATE | HILLS- BOROUGH | MANATEE | STATE. | HILLS BOROUGH | MANATEE | STATE | Bokoven | manates* | STATE | Hokoge Hokoge | MANATEE* |
| Enforce- ment | Enforcement | 19.7 | 12.35 | 7.0 | 23.4 | 20.23 | 5.0 | 23.5 | 30.26 | 5.0 | 35.0 | 35.25 | 5.0 |
| Services | Complaints/ Investigation | 14.8 | .12.35 | 20.0 | 17.6 | 20.23 | 15.0 | 17.5 | 25.22 | 15.0 | 27.0 | 30.22 | 15.0 |
| Enginear- | Permitting | 71.9 | 6.17 | 2.0 | 93.5 | 10.13 | 1.0 | 95.0 | 15.12 | 1.0 | 125.0 | 15.11 | 1.0 |
| ing Service | Source Sampling | 20.0 | 2.47 | 1.6 | 33.8 | 5.06 | 1.0 | 34.0 | 8.06 | 1.0 | 36.0 | 10.67 | 1.0 |
| Technical | Monitoring | 79.3 | 56.91 | 30.0 | 102.4 | 55.64 | 22.0 | 102.5 | 65.56 | 22.0 | 140.0 | 75.54 | 22.0 |
| Services | Special Projects | 9.8 | 6.17 | 1.0 | 11.5 | 5.06 | | 11.5 | 8.06 | Mary gale | 18.0 | 10.07 | v- |
| | Training/ Education | 4.9 | 4.94 | 2.4 | 5.8 | 5.06 | 1.0 | 6.0 | 6.05 | 1.0 | ' 9.Q | 7.05 | 1.0 |
| Manage- | Information | 9.9 | 4.94 | 1.4 | 11.8 | 5.06 | 1.0 : | 12.0 | 6.05 | 1.0 | 18.0 | 7.05 | 1.0 |
| ment Services | Planning | 12.4 | 4.33 | 1.7 | 14.7 | 10.12 | 1.0 | 15.0 | 15,12 | 1.0 | 22.5 | 20.14 | 1.0 |
| | Administration | 54.4 | 34.58 | 7.6 | 72.8 | 35.40 | 5.0 | 73.6 | 45.38 | 5.0 | 109.5 | 55.41 | 5.0 |
| | Totals | 307.0 | 145.1 | 74.1 | 387.4 | 172.0 | 52.0 | 390.0 | 225.0 | 52.0* | 540.0 | 266.0 | 52.0* |

* Manatee County Figures assumed to be the same as 72-73.

240 i

W.

CENTRAL FLORIDA AIR QUALITY CONTROL REGION

Financial Requirements

| | \$ | 71 - 72 | 72 - 73 | 74 - 75 | 76 - 77 |
|------------------|------------------------------|---------|---------|---------|---------|
| Taken a | | STATE | STATE | STATE | STATE |
| Enforce- ment | Enforcement | 9.5 | 11.3 | 12.0 | 18.0 |
| Services | Complaints/ Investigation | 7.2 | 8.6 | 9.0 | 13.5 |
| Engineer- ing | Permitting | 35.0 | 41.6 | 42.0 | 63.0 |
| Service | Source Sampling | 9.6 | 11.4 | 12.0 | 18.0 |
| rechnical | Monitoring | 38.3 | 45.5 | 46.0 | 69.0 |
| Services | Special Projects | 4.7 | 5.6 | 6.0 | 9.0 |
| 240-C | Training/ Education | 2.3 | 2.7 | 3.0 | 4.5 |
| lanage- | Information | 4.7 | 5.6 | 6.0 | 9.0 |
| ment Services | Planning | 5.9 | 7.0 | 8.0 | 12.0 |
| | Administration | 21.3 | 25.3 | 26.0 | 39.0 |
| | Totals | 143.2 | 164.6 | 170.0 | 255.0 |

SOUTHWEST FLORIDA AIR QUALITY CONTROL REGION

Financial Requirements

| | | 71 | -72 | 72- | 73 | 74 | - 75 | 76- | 77 |
|---|------------------------------|--------|---------------|-------|---------------|-------|---------------|-------|----------|
| | | STATE | SARA- SOTA | STATE | SARA- SOTA | STATE | SARA- SOTA | STATE | SARASOTA |
| Enforce- ment | Enforcement | 4.6 | 1.7 | 5.5 | 1.7 | 6.0 | 1.7 | 9.0 | 1.7 |
| Services | Complaints/ Investigation | 3.5 | 8.8 | 4.2 | 8.8 | 4.0 | 8.8 | 6.0 | 8.8 |
| Engineer- | Permitting | 12.2 | 1.7 | 14.5 | 1.7 | 15.0 | 1.7 | 25.0 | 1.7 |
| Service | Source Sampling | 4.6 | 1.7 | 5.5 | 1.7 | 6.0 | 1.7 | 9.0 | 1.7 |
| Technical | Monitoring | 13.8 | 25.3 | 16.4 | 10.3 | 18.0 | 25.3 | 30.0 | 25.3 |
| Services | Special Projects | 2.3 | 1.0 | 2.8 | 1.0 | 3.0 | 1.0 | 5.0 | 1.0 |
| 240-D | Training/ Education | 1.2 | 0.5 | 1.5 | 0.5 | 2.0 | 0.5 | 3.0 | 0.5 |
| U Manage- | Information | 2.3 | 3.5 | 2.8 | 3.5 | 3.0 | 3.5 | 5.0 | 3.5 |
| ment Services | Planning | 2.9 | 1.7 | 3,5 | 1.7 | 5.0 | 1.7 | 8.0 | 1.7 |
| | Administration | , 10.5 | 7.1 | 12.5 | 7.1 | 13.0 | 7.1 | 20.0 | 7.1 |
| econtribute para linguage per Prij year Ecolo Missi kilo kilo kilo de Mareke Prin | Totals | 49.8 | 53.0 | 69.2 | 38.0 | 75.0 | 53.0 | 120.0 | 53.0 |

SOUTHEAST FLORIDA AIR QUALITY CONTROL REGION

Pinancial Requirements

| | Noted Artifact and accomplished to the control of t | | 71 - | ************************************** | THE PARTY OF THE P | Carting I/ place parameter speciments and reserve | | 2 - 73 | | Carried Control of the Control of th | | - 75 | *********** | orners sincercontamente | 76 | - 77 | of Later 1 18 and 10 and 10 Toping on the |
|--|--|--------|--------|--|--|---|----------|--------|--------|--|---------|-------------|-----------------|-------------------------|---------|--------|---|
| entran corona (materiale), vi afitz | And the state of t | ezats | Pagara | DIEZA | PALM BEACE | STATE | TERS ALD | DAUE* | BEACH* | STATE | BRCWARD | DAGE* | PALII BEACH* | STATE | DROWARD | DADES | Jain Jerch= |
| Enforce- ment | Enforcement | 31,9 | 5.8 | 13.4 | 12.1 | 37.9 | 7.0 | 13.4 | 12.1 | 38.0 | 7.4 | 18.4 | 12.1 | 53.0 | 7.9 | 18.4 | 12.1 |
| fervices | Complaints/ Favestigation | 23.5 | 13.6 | 18.4 | 12.1 | 23.6 | 12.6 | 18.4 | 12.1 | 45.5 | 23.3 | 13.4 | 12.1 | 49.0 | 24.3 | 18.6 | 12.1 |
| Engineer- | Permitting | . 53.9 | 2.0 | D. D. | 6.3 | 55.3 | 2.1 | 3.2 | 6.0 | 56.0 | 2.2 | 9.3 | 6.0 | 70.0 | 2.4 | 9.2 | 6.0 |
| ing Service | Source Carpling | 31.9 | 16.4 | 3.7 | 2.4 | 37.9 | 13.6 | 3.7 | 2.6 | 23.0 | 13.3 | 3.7 | 2.5 | 55.0 | 14.2 | 3.7 | . 2.4 |
| Tachnical | Monitoring | 55,0 | (2.5 | 84.5 | 55.9 | 69.0 | CO. 2 | 94.5 | 55.0 | 66.0 | 71.0 | 34.6 | .5.3 | 05.0 | 76.0 | 84.6 | 55.0 |
| Services | Special Projects | 16.0 | 0.3 | 9.2 | 5.0 | 19.0 | · 3.3 | 9.2 | 6.8 | 19.0 | 4.5 | 2.2 | 6.0 | 25.0 | 4.9 | 9.2 | 6.0 |
| numerous de l'important e de l'important e la | Training/ Education | 7.9 | 8.7 | 7.4 | 6.9 | 5.3 | ·14.0 | 7.4 | 4.9 | 10.0 | 15.6 | 7.4 | 4.9 | 15.0 | 15.7 | 7.4 | 4.9 |
| Manage- | Information . | .15.0 | 9.0 | 7.6 | 4.9 | 19.0 | 15.4 | 7.4 | 4.9 | 19.0 | 27.3 | 7.4 | 4.9 | 28.0 | . 18.5 | 7.4 | 4.9 |
| ment Services | Planning | 20.0 | 0.9 | 6.5 | 4.3 | 23.7 | 1.0 | 6.5 | . 4.3 | . 25.0 | 1.1 | 6.5 | 4.3 | 40.0 | 1.1 | 6.5 | 4.3 |
| | Administration | 51,8 | 14.8 | 51.6 | 34.2 | 65.3 | 22.7 | 51.6 | 34.2 | 66.5 | 24.0 | 51.5 | 31.2 | 97.0 | 25.5 | 51.6 | 34.2 |
| | Totala | 319.0 | 127.7 | 216.4* | 142.7* | 356.3 | 170.6 | 216.40 | 142.7* | 350.0 | 179.7 | 216.4* | 142.7* | 500.0 | 192.0 | 216.40 | 142.72 |

Local Program did not provide estimates
 Figures are estimates by DPC and assumed to be the same each year.

LOCAL PROGRAM SUMMARY 1971-1972

| | i | | 4 | | | | | | | | |
|---|---------|---------|--------------------|---------|----------|---------|----------|-----------|--|--|--|
| | Broward | Dade | Palm Bch. | Duval | Manatee | Hills. | Sarasota | State (1) | | | |
| Total Air Program (Local & Federal) | 139,979 | 216,361 | 122,691 | 199,517 | 98,629 | 145,105 | 0 | 1,087,400 | | | |
| Air Program (Federal) | 89,979 | 90,315 | 79,938 | 90,006 | 45,000 | 82,105 | 0 | 515,400 | | | |
| Air Program (Local) | 50,000 | 126,046 | 42,753 | 109,511 | 53,629 | 64,000 | 53,070 | 572,000 | | | |
| Air Program Personnel (Man/Years) | 7.7 | 19.6 | 10.7 | 16.5 | 7.0 | 11.75 | 3.0 | 66 | | | |
| Population (Million) | 0.654 | 1,300 | 0.363 | 0.539 | 0.100 | 0.500 | 0.125 | 3.076 | | | |
| Expenditure ¢/Person (a) Air | 19 | 16 | 34 | 37 | 94 | 29 | 43 | 35 | | | |
| Man Power Per 100,000 Population | | | | | | | | | | | |
| (a) Air | 1.2 | 1.5 | 2.7 | 3.1 | 6.0 | 2.4 | 2.4 | 2.1 | | | |
| | | | r sad ^d | ee T | # *** | | | | | | |
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⁽¹⁾ Does not Inc. L. P. Areas



STATE OF FLORIDA

DEPARTMENT OF

AIR & WATER POLLUTION CONTROL INTEROFFICE COMMUNICATION

MEMORANDUM

April 14, 1971

TO:

All Interested Parties

FROM:

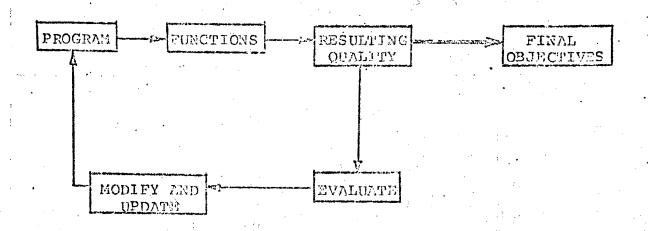
Vincent D. Patton

SUBJECT:

DAWPC Air & Water Pollution Control Program

With the recent adoption of the Federal Clean Air Act of 1970 and the latest amendments to the basic Water Pollution Control Act, and the activity of the DAWPC of the State of Florida in the past year, a definite State Air and Water Quality Control Program has been developed. The purpose of this memorandum is to set forth this Program in terms of:

- I. Objectives.
- II. Programs to meet objectives.
- III. Functions (actions) for Program.
 - IV. Assignment of Responsibility.



The intent of this memorandum is to describe the State Program for the personnel of DAWPC and make available to all other interested parties the policy, direction, and overall program of the State pollution control department.

SECTION I. Long-Term Objectives:

- A. Maintain a program of abatement by means of:
 - 1. Maintaining and operating a system to evaluate sources of pollution.
 - 2. Continually enforcing rules and regulations.
 - 3. Providing and maintaining a system of evaluating major and minor pollution problems.
- B. Maintain a program of control by means of:
 - 1. Operate and evaluate data derived from a system of determining ambient air and water quality.
 - 2. Maintaining and operating a system of permitting and evaluating operations of pollution sources.
 - Coordinating and continually developing a local program activity that is part of the State-wide program.
- C. Continually update the overall program of air and water quality control by means of:
 - 1. Reviewing existing and adopting new standards and regulations.
 - 2. Encouraging land-use planning consistent with State pollution control objectives.
 - 3. Reviewing State and local pollution control activities.
 - 4. Informing all interested parties of pollution control activities.
 - 5. Maintaining and developing up to date control techniques.

Short-Term Objectives:

Development of a State-wide implementation plan, including:

- A. Review and up-date of legislation.
- B. Evaluate ambient air and water quality in selective areas of State.
- C. Complete effluent and emission inventory of both area and point sources.
- D. Review and revise air and water quality rules and regulations.
- E. Draft and present at a public hearing the State Control Plan.

SECTION II. Programs to Meet Objectives:

| A. | Set | qoals | (Air | and | Water | Quality | Standards). | | [Planning] |
|----|-----|-------|------|-----|-------|---------|-------------|--|------------|
|----|-----|-------|------|-----|-------|---------|-------------|--|------------|

- B. Evaluate Air and Water Quality (Monitoring). [Control]
- C. Evaluate sources of pollution (Permit System, [Control] Source Sampling).
- D. Develop effluent and emission standards to meet air and water quality standards.
 [Planning]
- E. Pollution abatement (bring to legal stan- [Abatement] dards) enforcement.
- F. Pollution control (Maintain at legal stan- [Abatement dards) inspection, source sampling, permit system. [Abatement and Control]

Section III. Functions.

To accomplish the objectives of Section I, the following functions will be carried on:

Enforcement: All technical and le

All technical and legal activities conducted to enforce rules and regulations of the Department from the time that an official legal action (administrative or litigated) has been initiated, until final compliance has been obtained.

Administration:

All activities related to both internal affairs (personnel, financing, etc.) and technical management of personnel and resources of the Department, including programming and administration of work loads and objectives.

Permitting:

All activities, actions or work to provide a system of review, approval, permitting, or certification of all projects that will have an effect upon the air and water quality of the State.

Source Evaluations:

Routine, scheduled, or programmed work or actions to review and evaluate all sources of pollution to determine compliance with the rules and regulations of the Department.

Air and Water Quality Monitoring

Routine, scheduled, or programmed work or actions to evaluate the air and water quality of the State.

Complaints and Investigations:

All actions required to evaluate and take appropriate actions concerning major or minor sources of pollution, both of a chronic and acute nature.

Special Projects:

All activities or actions of specialized nature—long or short term—that support, may be supplemental or have a relation to the overall pollution control effort but not covered by any other function, e.g., Local Program coordination.

Training and Education:

All activities to plan, coordinate, or conduct training programs of Department personnel or all other interested parties.

Information:

All actions required to inform all persons, staff, and public as to the Department's pollution control activities, or any other information of general interest dealing with air and water quality of the State.

Planning:

All actions in the development, implementation, and continual review of the State's pollution control programs and plans.

| | | (| per | ati | ons | Div | isi | on |
|-------------------------------|--|--------------|-------------|--------------|--|--------------|--------------|-----|
| | | | | | | | | |
| | Director | vision | Operations | Permitting | Surveillance | Enforcement | eld Services | |
| | Office of Di | Planning Div | Director of | Bureau of Pe | o.f | Bureau of En | Bureau of Fi | |
| ABATEMENT PROGRAM Enforcement | Character Checkers (Control of Control of Co | | | В | В | Α | В | |
| Complaints/Investigations | | | | | • | | A | |
| CONTROL PROGRAM | | | | | | | • | |
| Source Evaluation (1) | | | | С | С | | Α | |
| Monitor Air/Water Quality | | : | | | B C | | A | · |
| Permitting | | | | A | | | В | |
| Special Projects | | | Α | B ; | В | В | В | |
| PLANNING & ADMINISTRATION | | | | | | | | |
| Planning | | A | В | | And the second s | | | |
| Administration | A | В | B | | | | | |
| Information | Α | | | | | | . II* | 3 |
| Training/Education | A | B | В | | | | i) | No. |

CODE:

A = Primary Responsibility

B = Secondary Responsibility--Support

E: (1) Automatic Monitor-- Bur of Sur - Primary onsibility. In order to describe the State level resources available, the activities of the Pollution Control Department are described under the seven program components making up the entire program for the Department. Those components are Licensing and Permitting, Source Evaluation, Complaint and Investigation, Prosecution and Adjudication (Enforcement), Air Quality Monitoring, Training and Education, Administrative Direction and Support Services (ADSS). Each program is discussed in the following paragraphs.

Licensing and Permitting

The Bureau of Permitting within the Division of Operations is a focal point of permitting activity with final review and issuance of permits being done by the Bureau. Pursuant to Chapter 17.4, Permits, which was promulgated within the authority of Chapter 403, Florida Statutes, permits for construction, operation, expansion or installation of any facility which may be a source of air pollution is required in the State of Florida. Such permits may be revoke upon failure to perform to permit conditions or upon violation of pollution rules or State laws. Some pollution sources are exempt, however, they are minimum in both emissions and effect as maybe seen from the attached copy of 17-4. Failure for a person, company or legal entity to have a permit for operation or for construction can lead to administrative enforcement action or to civil penalties, a maximum of \$5,000 a day. The permit application is made on forms printed by the Department and requires among other things the owners name, the plant location, the type of operation, a material balance, specifications and plans for control devices and the number of sources along with the emission rates of contaminants and other source information such as volumes and temperatures. The permit application is reviewed first by the Department regional personnel or if within a county having a local program by the local program, then by regional personnel. Then the application is forwarded to the Bureau of Permitting in Tallahassee for further review and consideration for approval. of the factors affecting or affected by the new source are considered including; location, kind and quantity of emission as it relates to the latest control technology and to specific emission limits set by State rule, and existing ambient air conditions.

The Licensing and Permitting activity includes about 22% of the air pollution program funds for the

State. The total funding includes money for the use of part of a computerized data system designed for collection, handling, storage, retrieval and computations for permit data.

Source Evaluation

The component source evaluation includes the actions taken to determine the kinds and rates of emission of contaminants from individual sources in order that the emissions can be related to permit requirements and/or environmental considerations. Each region is staffed with man power and equipment to field one source team which can make determinations to test rule and permit violations. In addition to the usual capabilities a centrally located group with equipment and technical know-how is maintained in order that sources of unusual size or contaminant complexity may be sampled. In the same location there is also a special analytical group to handle analyses of contaminants which due to the cost or complexity is not performed in the regions. The funding for the source evaluation program represents about 8% of the total air program. For the 1972-73 budget the funding is increased by nearly five times, to \$195,200. Methods for sampling mobile sources are presently not included in the source evaluation program, however, a limited program has been initiated under Chapter 325.19 Florida Statute at the motor vehicle inspection stations throughout the State.

Complaint and Investigation

The complaint and investigation component represents a valuable activity which results in the location of previously unknown sources, a documentation of unusual discharges, and the pursuit of public health, welfare and damage incidences. This program is conducted almost entirely at the regional level with each employee trained to respond to complaints. Complaint reaction is followed up with complete investigation and sampling as required and notification to the suspect source with follow-up by enforcement action if necessary. The funding for the complaint investigation is 6% of the total Department's air program funds.

Prosecution and Adjudication (Enforcement)

The enforcement phase of the total departmental program has annually become stronger both in personnel and funds. Presently the enforcement phase at the Tallahassee office includes a total of 11 persons, 6 in the Legal Section and 5 in the Bureau of Enforcement. The Legal Section includes 4 attorneys and the Enforcement Section includes 3 engineers. This constitutes the group who control and manage all enforcement cases for the entire Department. The funds of the air program enforcement phase represent about 8% of the air program budget.

The following description will demonstrate how the enforcement system works. An enforcement case may originate from a complaint-investigation, a plant inspection or an incident experienced by an employee or it may arise out of a rule or permit violation discovered by source emission tests or the air monitoring program. The case is investigated thoroughly within the region in which it occurs and a report of the case is forwarded to the Division of Operations in Tallahassee. Division of Operations reviews the case for accuracy and validity and the case is then transferred to the Legal Section with the Department's recommendations. is then usually handled by administrative order, after which time complete control and follow-up of the case becomes the responsibility of the Bureau of Enforcement. At this time, through administrative procedures, the polluter is put under specific dated schedule for compliance and the case is followed up until pollution abatement is accomplished. Since the Bureau of Enforcement is limited in number of Personnel, after the initiation of the case, follow-up actions such as source evaluation, inspections, and monitoring programs are performed by regional personnel at the request of the Bureau of Enforcement.

Some cases, upon initially being transferred to the Legal Section, may be taken to Civil Court depending upon the factors involved with the emissions, the source owner, and possible effects of the pollutant. Such cases then are handled in Civil Court and control is maintained with the Legal Staff. For other cases both administrative action and civil penalty may be sought simultaneously. It is anticipated that for the year 72-73 both the legal and enforcement staffs will be increased to a total of eighteen persons for the entire Department. The air program funds for 72-73 are estimated to be increased to about \$213,000.

Air Quality Monitoring

Funds for air quality monitoring will be increased from 260,900 dollars for the 71-72 year or about 24% of the total air budget to \$930,100 for the 72-73 year or about 37% of the total air budget. These values indicate an alerted interest in ambient air quality. There are presently three automatic monitoring stations operating and owned by the State. These will be increased in number and are described more completely in the section on Surveillance and Monitoring. It is the intent of the State to provide adequate coverage pursuant to outlines by the Environmental Protection Agency for the six pollutants included sulfur dioxide, particulate, nitrogen oxides, carbon monoxides, photochemical oxidants and hydrocarbons as well as providing the necessary monitoring system for additional ambient contaminants as national air standards are promulgated.

Training and Education

- welford

This component is shown as about 2.0 percent of the total air budget. The program includes primarily training and education of new employees with respect to inhouse training and the training of analytical and operational personnel both within the district facilities and at the source owners facilities. The funds shown do not include enrollment and expense fees for outside schools such as conducted by EPA and universities. Those funds are included in other categories.

Administration Direction and Support Services (ADSS)

The ADSS component includes sub-programs of Planning, Administration, Information and Special Pollution Control Projects. For the 1971-72 air budget ADSS includes 31 percent of the total funds and for 72-73 43 percent, increasing from a total of 337,200 for 71-72 to 666,300 for 72-73. The largest of the sub-programs within this program component is Planning.

The Planning Division, within which most of the program is carried out, consist of an office of the Director and three sections of which two are involved with air quality. Those two sections are Air Quality Management and Air and Water Quality Standards Development. The total man years allotted to air pollution are 3.4 for 1971-72. These sections will provide resources to

* Management Services

follow-up the air implementation plan as it is carried out by the Division of Operations and to respond to the needs of the program with respect to rules and area planning as it relates to ambient air quality.

The sub-program of Information reflects an active program with a \$43,500 funding for the year 71-72 following by about \$43,600 funding for the year 72-73. This is a very small portion of the total air budget. The budget will cover public appearances, preparation of published material, education displays and other modes of presenting the air pollution story to the general public.

The sub-program Administration deals with purchasing, personnel, cost accounting, interdepartmental administrative actions and requirements concerning budgeting and projected overall program control and management. This sub-program provides necessary support to a properly managed overall program. The funding represents 18 percent of the total funded budget or about \$195,800 for 1971-72.

The last sub-program under the ADSS component is special pollution control projects. This program includes both a problem solving phase and maintenance of on-going interagency activities. The interagency activities include coordination with local programs which are currently in existence. The problem solving phase would provide solutions to situations such as updating overall air pollution data into the EDP system, investigating methods of analyses and setting up specialized and centrally located stack sampling equipment and capabilities. As in many others, the funds for this program will be spread through two or more Department Divisions or Bureaus.

Local Programs

The local pollution control programs generally are staffed and equipped in a manner similar to the State program. Since under Chapter 403 Local Programs must be approved by the State program, each one is required to provide the phases necessary to implement abatement and control programs and they will be required to take necessary action for implementation of the air quality control region plan. Failure to perform under the implementation plan can impose requirements of the State statute and bring about reconsideration of approval of the program. Thus, following appropriate administration action open to the Department, imposition of the State

^{*} Included under Technical Services in tables.

control program in each county failing to respond properly is legally possible. Prior to approval each local program is examined carefully for proper funding, enforcement capability, source and ambient air monitoring, complaint and investigation, and the basis in adequate law and rule for enforcement of a control program.

Although, the present local program control budgets do not necessarily reflect the needs of the implementation plan, subsequent funding and program activities must reflect those needs pursuant to State Statute requirement. Some factors are discussed in the following paragraphs as they presently exist and as they will continue to be carried out within the local programs.

Enforcement is generally the prerogative of the local program, however, certain situations which the local programs cannot handle are referred to the State level for enforcement. These situations may include problems with county or city owned facilities which may not be enforceable due to local public or private pressures. In addition, enforcement relative to sources whose size or complex nature is beyond the scope of a local program may be referred to the State for action under State rules or Statutes.

With the exception of Dade County, the local programs have no permit system and act in cooperation with the State permit system by providing necessary reviews, inspections, testing, etc., for possible enforcement actions. The Dade County permit system presently includes many small sources which are not permitted by the State system. Since the Dade system does not include larger sources, the two systems are compatible.

Local programs have both source and ambient monitoring systems and are expected to maintain and improve as necessary those systems in response to the air implementation plan. The State will make use of the data generated by a direct input to the State computer system.

Other State Agencies

The cooperation of other State agencies is expected and in fact is legally required pursuant to Chapter 403, Florida Statutes, in order to carry out pollution control programs in the State. Past performance indicates an excellent degree of cooperation with other agencies. Two such agencies which previously and presently are involved

with air pollution control activities are the Division of Forestry, Department of Agriculture and Consumer Services, and the Department of Transportation. The Division of Forestry is cooperating in the implementation of the open burning rule in the State and cooperation with the Department of Transportation is evidence by attached letter from the Secretary of the Department of Transportation describing the Departments plans and possible modes of action.

Florida Resources

Local Air Pollution Control Programs

South East Air Quality Region

Dade County

Metropolitan Dade County Pollution Control 864 N. W. 23rd Street Miami, Florida 33127 Mr. Peter J. Baljet, Director

Broward County

Broward County Air and Water Pollution Control Board 540 Southeast Third Avenue Fort Lauderdale, Florida 33301 Mr. Warren S. Craven, Chairman

Palm Beach County

Palm Beach County Health Department
P. O. Box 29
West Palm Beach, Florida 33402
Mr. C. L. Brumback, M. D., County Health Director

West Central Air Quality Region

Manatee County

Manatee County Air and Water Pollution Control Department 202 Sixth Avenue East Bradenton, Florida 33505
Mr. L. H. Fortson, Jr., Chairman, Board of County Commissioners

West Central Air Quality Region (Continued)

Hillsborough County

Hillsborough County Pollution Control Commission
906 Jackson Street
Tampa, Florida 33602
Mr. Frank Neff, Chairman, Hillsborough County Pollution
Control Commission

North East Air Quality Control Region

Duval County

City of Jacksonville
Department of Health, Welfare and Bio-Environmental
Services,
Bio-Environmental Services Division
Air and Water Pollution Control
Jacksonville, Florida 32202
Mr. Robert J. Stroh, Chief, Bio-Environmental Services

South West Air Quality Control Region

Sarasota County

Sarasota County Pollution Control Board P. O. Box 2658 Sarasota, Florida 33578 Mr. F. H. Heinzman, Director

Section VIII

Intergovernmental Cooperation

Interstate Relationship

Adequate implementation of abatement and control programs in an interstate region is confronted with many problems, the most important of which are organizational and jurisdictional conflicts between the States. In order to coordinate to the fullest extent possible, two factors are considered important - (i) the states should have control organizations, and (ii) the states should have comparable air quality standards. By the enactment of the Clean Air Acts of 1967 and 1970, and with the promulgation of the national air quality standards, these factors have been established.

The Department of Pollution Control of the State of Florida intends to cooperate fully with other state agencies involved in its two interstate regions. For the purpose of developing the Implementation Plan, the State of Florida has already furnished to Alabama and Georgia information on emission inventory and available air quality data. The State of Florida intends to continue to cooperate with these two adjoining states in matters relating to ready exchange of above information plus cooperation and assistance in air quality surveillance and air pollution emergencies pertaining to any or all portions of its interstate regions.

There is no local air pollution control program in the Florida portion of the Northwest Region and one local air pollution control program (Consolidated City of Jacksonville) in the Northeast Region. Since the state is responsible for the control and abatement program throughout the state including locally regulated areas, interstate activities will be carried out at the state level rather than including local programs, since this approach will avoid any conflicts which may arise as a result of possible different approaches to solutions.

The Department of Pollution Control assures the bordering states of Alabama and Georgia that the emissions in the Florida portions of the Mobile - Pensacola and Jacksonville - Brunswick Interstate Air Quality Control Regions will be controlled to such a degree which will allow attainment and

further enhancement of national air quality in the counterparts of these interstate regions. These assurances are contained in letter form to Alabama and Georgia and are made part of this plan.

STATE OF FLORIDA



DEPARTMENT OF POLLUTION CONTROL

SUITE 300, TALLAHASSEE BANK BUILDING 315 SOUTH CALHOUN STREET, TALLAHASSEE, FLORIDA 32301

VINCENT D. PATTON

May 2, 1972

DAVID H. LEVIN

Mr. W. T. Willis, Director Alabama Air Pollution Control Commission Alabama Department of Health Montgomery, Alabama, 36184

Dear Mr. Willis:

Section 420.21 of the "Federal Requirements for Preparation, Adoption, and Submittal of Implementation Plans" list the requirements for intergovernmental cooperation. Since the Mobile - Pensacola Air Quality Control Region is an interstate region, please be assured that any available data on emissions, air quality, and control strategy development for the Florida portion will be furnished, upon request, to your agency or any authorized representative of your agency.

Also, please be assured that the State of Florida Department of Pollution Control will not allow emissions or grant variances from its applicable rules and regulations, which may result in such quantities as to prevent the State of Alabama from achieving the national air quality standards. Further be assured, that the Florida Department of Pollution Control will institute adequate emergency abatement steps in the Florida portion, and assist in everyway possible the State of Alabama Air Pollution Commission, or its representative agency or agencies by providing manpower and equipment in case of an air pollution emergency situation in the Alabama portion of the said interstate air quality control region.

We have had a close working relationship in the past and to assure it is continued in the future, we are making this as part of our Air Implementation Plan, which is under consideration for approval before the Administrator of the Environmental Protection Agency.

Sincerely,

incent D. Patton

VDP/spm

258-A



STATE OF FLORIDA

DEPARTMENT OF POLLUTION CONTROL

SUITE 300, TALLAHASSEE BANK BUILDING 315 SOUTH CALHOUN STREET, TALLAHASSEE, FLORIDA 32301

VINCENT D. PATTON

May 2, 1972

DAVID H. LEVIN

Mr. R. H. Collom, Jr., Director Air Quality Control Branch Georgia Department of Public Health 47 Trinity Avenue, Southwest Atlanta, Georgia, 30334

Dear Mr. Collom:

Section 420.21 of the "Federal Requirements for Preparation, Adoption, and Submittal of Implementation Plans" list the requirements for intergovernmental cooperation. Since the Jacksonville - Brunswick Air Quality Control Region is an interstate region, please be assured that any available data on emissions, air quality and control strategy development for the Florida portion will be furnished, upon request, to your agency or any authorized representative of your agency.

Also, please be assured that the State of Florida Department of Pollution Control will not allow emissions or grant variances from its applicable rules and regulations, which may result in such quantities as to prevent the State of Georgia from achieving the national air quality standards. Further be assured, that the Florida Department of Pollution Control Will institute adequate emergency abatement steps in the Florida portion, and assist in everyway possible the State of Georgia Air Pollution Control Department, or its representative agency or agencies by providing manpower and equipment in case of an air pollution emergency situation in the Georgia portion of the said interstate air quality control region.

We have had a close working relationship in the past, and to assure it is continued in the future, we are making this as part of our Air Implementation Plan, which is under consideration for approval before the Administrator of the Environmental Protection Agency.

Sincerely,

Vircent D. Hatton

VDP/spm



IRA L. MYERS, M. D. STATE HEALTH OFFICER

State of Alabama Department of Public Health

State Office Duilding Montgemory, Alabama 2003



October 20, 1971



Mr. Vincent Patton
Executive Director
State of Florida Department of
Air and Water Pollution Control
315 South Calhoun Street
Tallahassee, Florida 32301

Dear Mr. Patton:

As you are well aware, Section 420.21 of Subpart B of the Federal Requirements for Preparation, Adoption, and Submittal of Implementation Plans lists the requirements for Intergovernmental Cooperation. In keeping with these responsibilities our Division has developed a Statement of Intent for interstate cooperation. It is actually a modification of the statement of intent adopted by the Kentucky - Virginia Air Pollution Control Committee. Our only addition to this existing document is Section IX which allows for modifications. Several of the original sections of the document have been changed to meet our specific needs.

We have enclosed a copy of the Statement for your review and comments. Feel free to offer any suggestions or corrections you may have for making it a more workable plan. If you have written a similiar statement and feel that it offers a better approach, please send us a copy so that we may review it. Our only objective is to complete the requirements of the Federal Plan and have a good working relationship with our neighboring states so that we may all get the job done as expeditiously as possible. We look forward to hearing from you in the near future.

Sincerely yours,

W. Wills

W. T. Willis, Director

Division of Radiological Health

WIW: 1gc

Enclosure

STATEMENT OF INTENT FOR INTERSTATE COOPERATION OF THE

ALABAMA - FLORIDA - MISSISSIPPI AIR POLLUTION CONTROL COMMITTEE

This Statement of Intent, effective October 1, 1971, and concurred in by the air pollution control agencies of the State of Alabama, State of Florida, and the State of Mississippi, is designed to set forth basic policies of interjurisdictional cooperation in the areas designated by the Administrator, Environmental Protectional Agency, as the Mobile (Alabama) - Pensacola-Panama City (Florida) - Southern Mississippi Interstate Air Quality Control Region (hereinafter referred to as the "Region"). The purpose of this document is to establish a flexible mechanism whereby the control agencies of the three States can readily exchange information and data of common interest, and coordinate, insofar as possible, control efforts, achieve optimum utilization of data, avoid unnecessary expense and duplication of effort, and enable the party states to develop and effectively carry out their respective Implementation Plans as required by Section 110 of the Clean Air Act (as amended).

Policies and Procedures

- I. Name: The organization shall be known as the Alabama Florida Mississippi Air Pollution Control Committee (hereinafter referred to as the "Committee").
- II. <u>Membership</u>: The following governmental air pollution control agencies shall be members of the Committee:

State of Alabama
Air Pollution Control Commission

State of Florida
Air and Water Pollution Control Board

State of Mississippi Air and Water Pollution Control Commission

III. <u>Designated Representatives</u>: For purposes of giving notice of meetings, exchanging data and other pertinent information, etc.,

the following are designated as the Representatives for each respective control agency:

State of Alabama

Director (or his designee)
Alabama Air Pollution Control Commission
Room 311, State Office Building
Montgomery, Alabama 36104
Telephone: 205-269-7634/7635

State of Florida

Director (or his designee)
Air and Water Pollution Control Board
315 S. Calhoun Street
Tallahassee, Florida 32301
Telephone: 904-224-9151

State of Mississippi

Director (or his designee)
Air and Water Pollution Control Commission
P. O. Box 827
Jackson, Mississippi 39205
Telephone: 601-354-6783

- IV. Local Representatives: In recognition that local government units may be delegated significant responsibilities in carrying out Implementation Plans for the prevention and control of air pollution, and to assure proper coordination between state and local government officials, it is felt that local representatives on the Committee would be desirable and appropriate. Therefore, it is mutually agreed that each member may invite local representatives to attend and participate in all activities of the Committee. The names of said local representatives, upon designation, will be appended to this document.
 - V. Federal Representation: Due to the impact of the Clean Air Act

 (as amended) on the control efforts of the various agencies

 having jurisdiction within the Regions, and the desire of the

 Committee members to be informed of federal activities and

 available technical assistance which may inure to each other's

benefit, it is felt that a federal representative on the Committee would be appropriate and advantageous. Therefore, it is mutually agreed that an official of the Office of Regional Activities, Region IV, Atlanta, Environmental Protection Agency, shall be invited to attend and participate in all activities of the Committee as an observer and non-voting member, such official's name upon designation to be appended to this document.

VI. Organization, Meetings, Minutes:

- A. Organization The organization and conduct of Committee meetings shall be as informal as possible. The Committee shall have no permanent chairman or secretary, but shall, at the discretion of the members, delegate such responsibilities and duties in an equitable manner.
- B. Meetings It is felt that the purposes of the Committee can, for the most part, be achieved by routine correspondence and telephone communications. Accordingly, the Committee shall meet at a mutually agreeable time and place on the call of one of the members when matters of import dictate but in any event not less than once in every calendar year.
- C. Minutes Minutes of Committee meetings shall be recorded and distributed to the members by the person designated as the secretary of the meeting.
- WII. Exchange of Information: It is the intention of the Committee members that information and data of common interest should be freely exchanged. Such exchange shall be directed to the Designated Representative for each respective control agency.

 Without limiting the scope of exchange, the following matters will form the basis of interjurisdictional exchange of information and data:
 - A. Legislative and Administrative The Committee members shall

- exchange copies of enabling legislation, adopted regulations or ordinances, annual reports, and any other pertinent information relative to control activities within the Region.
- B. Proposed Standards Each Committee member shall forward copies of proposed ambient air quality and emission standards applicable to any portion of the Region for other Committee members' review and comment. Notice of any public hearings held relative to the adoption of said standards shall be given the Committee through each member's Designated Representative.
- C. Air Quality Monitoring Data The Committee members shall exchange summary tabulations of air quality data and other information on the location of monitoring sites and methods used sufficient to interpret the data for each agency's portion of the Region. The Committee agrees to adopt report formats as are or may be required by the Environmental Protection Agency, or such other format that is suitable.

D. Source Emission Data -

- 1. Existing Sources. The Committee members shall exchange summary tabulations of air pollutant exission data for both point and area sources within each agency's portion of the area of concern. Any Committee member shall, upon request of another member, provide to such other member specific air pollutant emission data related to a particular source or sources. The Committee agrees to adopt report formats as are or may be required by the Environmental Protection Agency, or such other format that is suitable.
- 2. New Sources. Each Committee member shall promptly transmit to all other members information concerning proposed

within that agency's jurisdiction that has the potential of emitting 100 tons per year or more of any pollutant which may affect the other agency's area. Such information shall include, but is not limited to, the type of source, the nature and quantity of emissions, the stack height and diameter, the gas exit temperature and velocity, the type and design efficiency of proposed control systems, and an evaluation as to the potential for contravening air quality standards of a neighboring state. As used here, a new or expanded source is one whose proposed or expanded operation begins after the date upon which this agreement takes effect.

E. Complaint Referrals - Any complaint received by one control agency concerning air contaminant emissions originating in the other state will be forwarded to the control agency of that latter state for action. The control agency of that latter state will then report on the action taken.

It is the intention of the Committee that progress reports submitted by its individual members to the Administrator, Environmental Protection Agency, which are related to the achievement of Implementation Plan Goals will be deemed to meet the objectives of this section contained in paragraphs C and D (1).

VIII. The Committee shall work toward and cooperate in the development of communications and operational procedures as are necessary and appropriate for the conduct of joint air-quality monitoring and regulatory actions during emergency air pollution episodes that occur in the areas of concern.

- IX. Modifications: This Statement of Intent may be modified or altered by concurrence of the signatories hereto. To the extent that commitments are hereby made, it is the intent of said signatories hereto that this Statement of Intent is binding upon them and their successors unless and until expressly revoked by a signatory party.
- X. Expression of Intent: The undersigned hereby witness that they concur with the aforesaid purposes and objectives, and that they recognize the desirability and indeed the necessity of coordination of technical matters in interstate areas of joint interest and concern. It is understood that no legal liabilities or other binding commitments beyond the authority bestowed by each state's respective statutes are hereby made, but that a positive intent for cooperation in all the above matters is expressed.

Ira L. Myers, M. D., Chairman and acting on behalf of, The Alabama Air Pollution Control Commission

Nathaniel P. Reed, Chairman, Florida Air and Water Pollution Control Board

James W. Carraway, Chairman, Mississippi Air and Water Pollution Control Commission

State/Local Relationship

Attached is the initial development of assignment of responsibility between the Department of Pollution Control and Local Programs. This material has been submitted to each Local Program in the State. Detailing and outlining specific actions to be taken are currently being formulated and will be disseminated to the responsible local area when complete.

It should be noted that the Department of Pollution Control will retain a majority of the responsibility to carry out the Air Implementation Plan, particularly in the programs of Permitting and Enforcement.

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STATE/LOCAL RELATIONSHIP

Section II - Legal Authority

| • | State | Local |
|-------------------|--|---|
| Authority: | Chapter 403, F. S., (Department of Pollution Control) | Dade County - Local Acts and Ordinances & DPC Approval Palm Beach County - Same Broward County - Same Hillsborough County - Same |
| | | Duval County - Same Manatee County - Same Sarasota County - Same |
| | | Note: Only the above are authorized Local Control Group |
| Responsibility: | The DPC shall have overall state responsibility for the conduct of the Air Implementation Plan under the provisions of Chapter 403, F.S. | The authorized Local Programs listed above shall have the responsibility to coordinate and report to the DPC all actions and activities outlined and defined by the Air Implementation Plan and any other information that may be required. |
| Required Actions: | Continue to review federal requirements and update plan. Advise and consult with Local Programs for updating of their authority. | Review and modify basic laws and ordinances in conformance with state requirements. |
| Staffing: | Not applicable. | Not applicable. |
| <u>Logistics:</u> | Not applicable. | Not applicable. |

Page Two

Section III - Rules and Regulations

State

Authority:

FAC 17-2, 170C-12, 17-5, 17-4.

Responsibility:

The DPC shall continually review, modify and adopt new rules and regulations to implement the intent of the Air Implementation Plan.

The Department of Pollution Control shall enforce all rules and regulations in all areas of the state, except in authorized Local Program areas; and with certain exceptions under Permitting and granting of variances.

Required Action:

The DPC shall carry forward a strong program of Enforcement, with the intent of gaining correction to air pollution problems. It shall continue to develop a program of C/I, gaining correction at the local level for minor type problems and utilize all other legal methods available for the control of air pollution.

Each Regional Office of the DPC shall coordinate with and assist Local Programs in the enforcement of rules and regulations of the state.

Staffing:

The DPC shall provide a uniform organizational structure at the central staff level and the regional level to conduct all programs. See Table I.

Local

Applicable local ordinances, duly adopted rules and regulations.

Local Programs shall review, modify where necessary, and adopt air pollution control regulations that are as strict as requirements of the state rules and regulations, except in those sections dealing with Permitting and variances to state rules. Local Programs can require more stringent rules and regulations only if the rules do not conflict with the intent of Air Implementation Plan.

All programs shall have the responsibility to enforce local rules and regulations.

Actions by Local Programs shall have the same intent as the state program. Reporting of all actions to the DPC shall be in the same form and manner as utilized by the DPC and through the Regional Offices of the DPC.

All Local Programs shall conform to a standard program structure, compatible to the DPC regional program and assignment of responsibility.

Page Three

Section III - Rules and Regulations

| Sta | ite |
|-----|-----|
|-----|-----|

Staffing: (Cont'd.)

At the regional level the structure shall take the following form and assigned responsibility.

Administrative Group: Planning

Administration Information Training Special Projects

Engineering Section:

Permitting Enforcement

Analytical Service Section:

Source Evaluations Air Quality Moni-

toring

Inspector Section:

Complaints/Investigations

Staffing of specific positions within each section of the organizational structure shall be dependent upon the needs of the regions and bureaus.

Logistics:

Major items of equipment and other support covered under other sections. May vary with respect to programs of Enforcement, Planning, Special Projects, Training and Information.

Local

Specific positions of personnel within the overall structure shall be dependent upon the needs of the area or program.

Major items of equipment and other support covered under other sections. May vary with respect to programs of Enforcement, Planning, Special Projects, Training and Information.

State

Authority:

FAC 17-4, F. S. 403.061 (7) (10) (18); 403.087; 403.088.

Responsibility:

The DPC shall have the full responsibility for the issuance and denial of permits under provisions of the above authority. Procedures for handling of permits are outlined in other parts of this section. Enforcement of violations of permit conditions imposed by the state, shall be the responsibility of the DPC. This authority can be delegated to Local Programs.

Required Action:

Actions by the state in the handling of permit applications are outlined in other sections of this plan, including data processing.

The DPC shall review each permit on a routine basis and in conjunction with the Source Surveillance System, determine compliance or non-compliance with permit conditions.

Local

All permits for pollutional sources covered under state rules and laws applicable to Local Program areas. All sources not encompassed under the above, authority granted by local ordinances or rules.

The Local Programs shall be required to review and comment of all permits prior to issuance by the DPC. Any rejection of permits by the Local Program shall be resolved with the applicant prior to submission to DPC. Any local conditions applied to state permits shall be the responsibility of the Local Program to enforce. Local Programs may enforce violations of state permits upon delegation of authority by the DPC.

Actions by the Local Programs in handling of permit applications are outlined in other sections of this plan. All actions by the Local Program in the handling of permits and data processing shall conform to state procedures.

The Local Programs shall routinely evaluate each permit issued and in conjunction with Source Surveillance System, determine compliance or non-compliance of permit conditions.

All actions by Local Programs in regard to the State Permit System shall be reported routinely to the DPC, through the Regional Offices of the DPC.

Page Five

Section IV - Permits

State

Staffing:

See Staffing of Section III.

Logistics:

See Logistics of Section III.

Section V - Air Quality Surveillance

Authority:

Applicable Section F. S. 403.

Responsibility:

The DPC shall have the full responsibility to conduct, analyze and handle data from a Statewide Surveillance (Air Quality Monitoring) Program. Delegation of certain portions of this responsibility are defined under other portions of this section.

The overall surveillance network of the state is outlined on pg. 208 - 223. The data handling is also included in this section.

Required Action:

The DPC shall be responsible for the development and selection of the state surveillance network, including the data handling system.

The DPC shall maintain and operate all network facilities outside of Local Program areas.

The scheduling of the routine sampling, network details and data handling specifications and details shall be fully developed by the DPC.

Local

See Staffing of Section III.

See Logistics of Section III.

Applicable section of Local Acts, Ordinances, Rules and approval under F. S. 403.182.

Local Programs shall be delegated the authority to conduct an Air Surveillance (Air Quality Monitoring) Program. The functions of the Local Program shall conform to and be a part of the statewide plan.

All requirements and actions indicated by the state plan are minimum requirements and may be exceeded if in the interest of providing a more expanded control activity and not in conflict with the Air Implementation Plan.

The Local Programs shall be responsible for the conduct of an Air Surveillance Program within their area of responsibility. All actions shall conform to the statewide adopted procedures, specifications, policy, performance standards and schedules.

Reporting of all actions taken under this section shall be in the same form and manner as utilized by the DPC and through the Regional Offices of the DPC.

Page Six

Section V - Air Quality Surveillance

State

Required Action: (Cont'd.)

Finalization of this portion of the Air Quality Surveillance Plan will be forthcoming from the Department and certain portions will be delegated to the interested Local Programs.

Staffing:

Specific positions shall be dependent upon the needs of the Region or Bureau. Positions will be located within the organization structure shown in Staffing of Section III.

Logistics:

Full details of existing, required and needed equipment and facilities shall be derived by the DPC and made part of supplemental information to this section. Specifications, performance standards and types of facilities shall be outlined and certain portions will be delegated to all interested parties, both state and local.

Section VI - Source Surveillance

Authority:

Applicable laws and rules to allow for monitoring of emissions and evaluation by regulatory agency.

Responsibility:

The DPC shall have the full responsibility to conduct a Source Surveillance program on a routine and scheduled basis. This program will be conducted in conjunction with the permit review program.

Local

Specific positions shall be dependent upon the needs of the Local Program areas. Positions will be located within the organization structure shown in Staffing of Section III.

Upon notification by the DPC, delegated logistics will be provided by all respective Local Programs.

Same as state except some Local Programs may require revisions of ordinances or rules to allow for inspection of facilities.

The Local Programs shall provide and maintain the capability to conduct a program of Source Evaluation within their area of responsibility. This program shall be conducted in conjunction with and conformance to the state program.

State

Required Action:

Under this program and permitting each Regional Office will develop the capability to evaluate sources of pollution, both engineering-wise and stack sampling in the Analytical Service Section. Schedules of evaluations shall be developed for all major sources shown on the emission inventory. Priority of scheduling shall be based upon major pollutional discharges and emissions in the region. All evaluations shall be conducted by approved standard methods adopted by the DPC.

Staffing:

It shall be the intent of the DPC to provide within each Regional Office, under the Analytical Services Section, a stack sampling crew with necessary equipment. Also, under the direction of the Bureau of Surveillance, a special capability shall be retained to evaluate all sources that may have emissions beyond the evaluation capability of the Regional Office.

Logistics:

Full details of existing, required and needed equipment and facilities shall be derived by the DPC and made part of supplemental information to this section. Specifications, performance standards and types of facilities shall be outlined and certain portions will be delegated to all interested parties, both state and local.

Local

Local Programs shall develop and implement a Source Surveillance Program compatible with the state program. Scheduling of source evaluations shall be based upon the same principles as designated by the state program. Scheduling of evaluations shall be coordinated with the Regional Offices of the DPC and all actions will be reported as in other programs.

Local Programs shall develop the capability to conduct routine source evaluations within the organizational structure of each program as shown under Staffing of Section III.

Upon notification by the DPC, delegated logistics will be provided by all respective Local Programs.

AIR IMPLEMENTATION PLAN

State/Local Responsibilities

| , | FUNCTIONS | STATE | BROWARD | DADE | DUVAL | HILLS- BOROUGH | MANATEE | PALM BEACH | SARASOTA |
|--|---|-------|---------|------|-------|-------------------|---------|---------------|----------|
| | Distribution & Review of Applications | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| N PERMITTING U (Chapter 17-4 FAC) D | Engineering Review & Requisition of Compliance Schedule | 1 | 2 . | 2 | 2 | 2 | 2 | 2 | 2 |
| | Issue or Denial of Permits | 5 | 3 | 3 | 3 | 3 | 3 | . 3 | 3 |
| | Follow up of Compliance Schedule | 1 | . 2 | 2 | . 2 | 2 | 2 | 2 | 2 |
| | Operation Information Follow up | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Compliance Schedule Progress Report | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| an ang ang ang ang ang ang ang ang ang a | Designation of Statewide Network | 1 | 2 | 2 | 2 | . 2 | 2 | 2 | 2 |
| AIR QUALITY MONITORING | Designation of County Non-degradation | 4 | 1 | 1 | 1. | 1 | 1 | 1 | 1 |
| | Sampling & Reporting | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | • | | | | | | | | |

AIR IMPLEMENTATION PLAN

| | · · | | | | | | . | | | |
|------|---|---|--|--|------|-------|-------------------|---------|---------------|--|
| , | | FUNCTIONS | STATE | BROWARD | DADE | DUVAL | HILLS- BOROUGH | MANATEE | PALM BEACH | SARASOTA |
| i | AIR QUALITY | Data Storage & Retrieval | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | MONITORING (Continued) | Standard Methods of Analysis & Scheduling | 5 | 1 | 1 | 1. | 1 | 1 | . 1 | 1 |
| 273 | COMPLAINTS AND | Local Complaints & Investigation | 4 | 1 | 1 | 1 | | 1 | 1 | 1 |
| , pp | | Complaints & Investigation initiated at State Level | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| - | | Complaints & Investigation initiated at Federal Level | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | and an artifaction of the second | Initial Review for Compliance | | : 1 | 1 | 1 | . 1 | 1 | 1 | 1 |
| | ENFORCEMENT | Preparation of Case Summary | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | Administrative/Legal Action | 5 | 4 | 4 | 4 | 4 | 4 | 4 | And the second of the second o |
| | | Follow up for Compliance | The second secon | Contraction of the contraction o | 2 | 2 | dia. | 2 | 2 | 2 |

AIR IMPLEMENTATION PLAN

State/Local Responsibilities (Continued)

| | | FUNCTIONS | STATE | BROWARD | DADE | DUVAL | HILLS- BOROUGH | Manatee | PALM BEACH | SARASOTA |
|----------|----------------------|---|-------|---------|------|-------|-------------------|---------|---------------|----------|
| | | Review of Operation Reports | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 273 | SOURCE EVALUATION | Sample and Evaluation of Sources | | 1 | 1. | 1 | 1 | 1 | 1 | 1 |
| <u>၊</u> | | Engineering Review of Inplant Operations | 1 | . 2 | . 2 | 2 | · 2 | 2 | 2 | 2 |
| | | Inspection | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

CODE: 1 - Authority to handle fully and decision making; Report action to DPC

2 - Authority to handle and advise DPC; Decision and action by DPC

3 - Authority to comment only to DPC

4 - No authority '

5 - Full State responsibility

Section IX

Emergency Action Plans

This Emergency Action Plan sets forth the steps to be taken by the Department in case air quality reaches undesirable levels in any part of the state. Outlined hereunder is a sequence of specific control steps and actions designed to trigger the preplanned episode emission reduction and to prevent further air quality deterioration.

Level O: High Air Pollution Potential Advisory (HAPPA)

Level 1: Air Pollution Alert

Level 2: Air Pollution Warning

Level 3: Air Pollution Emergency

Sometimes due to unforeseen circumstances and quick build up on pollutant levels, it may be necessary to go into Air Pollution Alert or Warning without going through earlier stages. In such cases it will be necessary to carry out all the actions designed for that stage as well as previous stages.

I. Level O: High Air Pollution Potential Advisory (HAPPA)

This level may only indicate the presence of adverse meteorological conditions covering a portion or whole area of a region or regions. When HAPPA is received, a control center in Tallahassee and a field center for affected areas in each of the Regions are immediately set up. These control centers are to be under the Executive Director and will include the following:

1. Tele-communications:

The Tallahassee Control Center and field centers have available sufficient telephones and exchanges to make all necessary communications. The Tallahassee Control Center has 15 regular

telephone lines and one long distance WATS line. Each of the regional offices has a minimum of 2 telephone lines with which to make necessary calls.

2. Display Board:

The display board will consist of a black or cork board which will be used to continually present air quality data, meteorological conditions, checklists of sources contacted and enforcement projects. U. S. Geological Survey quadrangle maps with major point sources located on each map will be used for the location of monitoring equipment.

3. Personnel:

a. Tallahassee Control Center:

- (1) Executive Director or his designated agent will determine and declare that an air pollution episode exists and be responsible for the operation of the emergency action plan.
- (2) Chief, Bureau of Surveillance: Coordination of ambient and source sampling will be his responsibility.
- (3) Chief of Enforcement: Will notify upon direction of the Executive Director, all sources that must initiate pre-planned abatement strategies. Under his direction there will be two staff engineers or engineer technicians to perform the actual contacts and determine the area and the sources where emission reduction is necessary.
- (4) Legal: Will be an attorney experienced in legal aspects of air pollution abatement. Among his responsibilities as consultant will be to initiate court injunctive relief if and when required.
- (5) Meteorologist: During an episode he will update forecast of atmospheric stagnation condition at least every 12 hours. He will work closely with National Weather Service and continually watch the situation.

(6) Information Director: His duties will be to notify and keep the general public informed through all the available news media in the affected area.

b. Field Control Center:

- (1) Regional Engineer: He will coordinate and be responsible for all field services such as surveillance, enforcement and local programs. It will also be his responsibility to ascertain compliance of all sources with applicable preplanned abatement strategies and other emission control requirements. Sufficient staff will be available or made available to carry out all directives of the regional engineer.
- (2) Enforcement Personnel: Will determine if preplanned abatement strategies are initiated and other emission control actions fulfilled.
- (3) Surveillance Personnel: They will make frequent visits to ambient sampling sites during emergency condiditions (HAPPA, Alert, Warning and Emergency) AND will monitor, on a twenty-four (24) hour basis, both the concentrations of pollutant(s) in the ambient air and the local meteorological conditions. Data acquired will be sent to the Tallahassee Control Center through the Regional Engineer and will be used to establish and monitor emergency episodes.

(4) Equipment:

- a. Tallahassee Control Center:
 - 1) Monroe 1766 programable calculator for point source diffusion estimates.
 - 2) Telephones for communication.
 - 3) Other necessary office supplies.

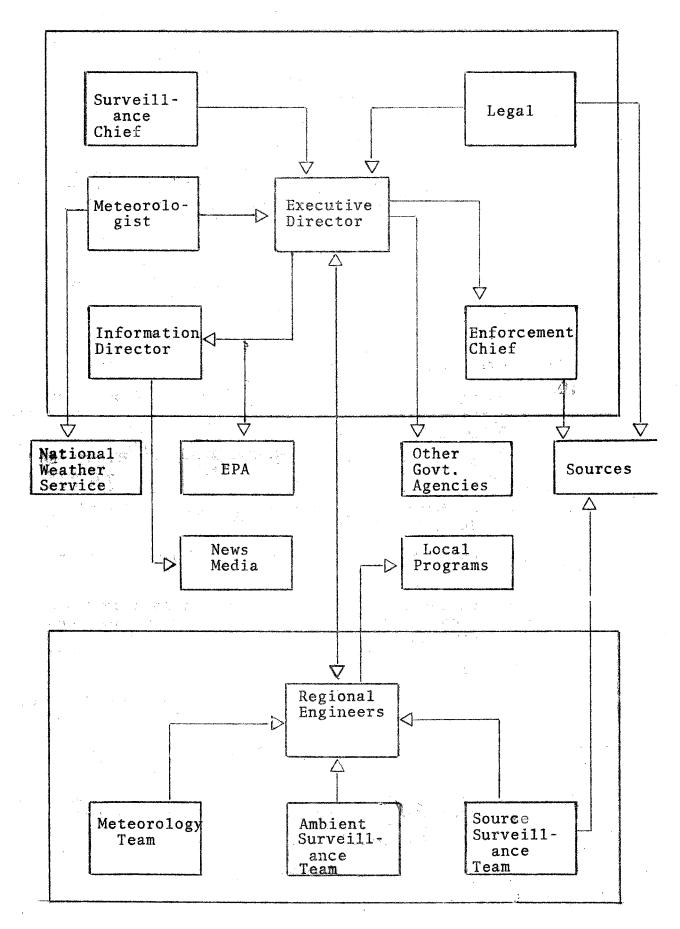
b. Field Control Center:

 Ambient monitoring equipment including; hi-volume samplers and tape samplers for particulates, pararosaniline method gas bubblers for SO₂, nondispersive infrared continuous monitors for CO, Jacobs-Hochheiser method gas bubblers for NO₂, and gas phase chemiliminesence continuous monitors for O₃.

- 2) Source sampling equipment.
- 3) Meteorological equipment to measure wind speed, temperature, pressure, humidity, etc.

As soon as HAPPA is received, the field center (Regional Engineer) will do the following:

- (1) Commence air quality monitoring of the following pollutants:
 - (a) Particulate: 24 hour Hi Vol Sample 2 hour tape samples
 - (b) SO₂ l hour has bubbler samples (every 4 hours) 24 hour sample-gas bubbler
 - (c) Oxidants: 24 hour gas bubbler samples (every 4 hours)
 1 hour samples (every 4 hours)
 - (d) CO 30 minutes samples detector tubes (every 4 hours) 8 hour samples
 - (e) NO₂ 24 hour gas bubbler samples 1 hour samples (every 4 hours)
- (2) Commence meteorological data collection. If meteorological equipment is not available, contact nearest weather station for wind speed, direction, mixing depth, precipitation. Request special (radiosonde) soundings if such information is not available.
- (3) Inform the local news-media. Emphasize it is only advisory on adverse meteorological conditions and no need for any alarm.
- (4) Advise major sources of air pollution in the affected area on the possibility of forth-coming emission reduction.



FIELD CONTROL CENTER

(5) Advise Tallahassee Control Center on the progress of item 1-4 above.

Tallahassee Control Center will do the following:

- Establish and maintain communication with National Weather Service on existing stagnation conditions and expected meteorological patterns.
- 2. Analyze ambient air quality data.
- 3. Transfer needed equipment and manpower to the effected area for episode air quality surveillance.

II. Level 1: Alert

The Alert level is that concentration of pollutants at which a short term health effects can be expected. An Alert level will be declared by the Executive Director or his designated agent when any one of the following levels is reached and is expected to continue for 12 or more hours.

- 1. Sulfur Dioxide (SO_2) 800 ug/m³ (0.3 ppm), 24 hour average.
- 2. Particulate 3.0 COHs or 375 ug/m³, 24 hour average.
- 3. Sulfur Dioxide (SO₂) and Particulate combined product of SO₂ ppm, 24 hour average, and COHs equal to 0.2 or product of SO₂ ug/m³, 24 hour average, and particulate ug/m³, 24 hour average equal to 65 x 10³.
- 4. Carbon Monoxide (CO) 17 mg/m³ (15 ppm), 8 hour average.
- 5. Oxidant $(0_3) 200 \text{ ug/m}^3 (0.1 \text{ ppm}) 1 \text{ hour average.}$
- 6. Nitrogen Dioxide (NO₂) 1130 ug/m³ (0.6 ppm), 1 hour average, 282 ug/m³ (0.15 ppm), 24 hour average

| COMPASY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |
|---|---------------------|---------------------|---|---|--|--|
| Evans Packing Company | Citrus | | Dade City Pasco Co. | Particulate 655.5 T/Y SO ₂ 525.0 T/Y | A.H. Reppard, Jr. Lionel L. Lowry, V.Pres. 904/567-5661 | |
| Ewell Engineering & Contracting Co. | Asphalt | Drying | Hudson Pasco Co. | Particulate 91.0 T/Y SO ₂ 83.2 T/Y | J.L. Ewell Fred B. Gill, Supr. | |
| Lykes Pasco Packing Co. | Citrus | | Dade City Pasco Co. | Particulate 293.1 T/Y SO ₂ 6832.5 T/Y | A.F. Spencer W.F. Edwards. Pres. 904/567-5211 | |
| Florida Power Corporation | Electric Utility | Steam Generation | St. Petersburg Oldsmar Pinellas Co. | Particulate 2175 T/Y SO ₂ 29827 T/Y | | Ų (|
| H.P. Hood & Sons | Citrus | • | Dunedin Pinellas Co. | Particulate 129.0 T/Y SO ₂ 1079.0 T/Y | Ralph Brinklow, Mgr. 813/733-2121 | |
| Stauffer Chemical Corporation | Phosphate | Kiln, Ect. | Tarpons Springs Pinellas Co. | Particulate 277.5 T/Y SO ₂ 264.5 T/Y NO _X 52.38 T/Y | C.A. Hendrickson Plant Manager Res: 813/934-4331 C.E. Sexton, Prod.Supt. Res: 813/937-2420 Office 813/937113 | Alert: Reduce nodulizing kiln load in proportion to electric furnace load reduction. Warning: Shut down nodulizing kiln. Emergency: Shut down electric furnace, time to shut down is approx. 1 hr. |

| | сомралу | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |
|---------------------------------------|--|------------------|---|--------------------------------|--|---|--|
| | W.L. Cobb Construction Company | Asphalt | Drying | St. Petersburg Pinellas Co. | Particulate 42.9 SO ₂ 93.0 | 813/394-7681 | |
| | C.F. Chemicals, | Phosphate | H ₂ SO ₄ | Bartow Polk County | SO ₂ 29,800.0 T/Y | J.A. Brafford, Chief Process Engineer 813/533-3181 | To decrease emission during warning level would require 4 hrs. To completely shut down, time required would be 8 hrs. |
| S | Coca-Cola Company Foods Division | C. J. C. T. C.S. | ang pangang pa | Leesburg Polk County | Particulate 422.0 T/Y | Max Walker Office: 904/787-2711 Res: 904/787-5814 | Time to process all the fruit and shut down is 3 to 4 days. |
| | Coca-Cola Company Foods Division | Citrus | | Auburndale Polk Co. | er en primer de la | Don Kimball '813/967-6611 Office 813/294-8544 Home | an region (m. a.gar en signific d'insu-un comprison d'Orympiden ; regionnées des décident de vergalem ton |
| 1 | Cypress Gardens Citrus | Ci t m s | ang dempension consecutive production and the second second second second second second second second second se | Winter Haven Polk County | Particulate 1854.4 T/Y SO ₂ 1720.0 T/Y | Ted King, Myr .813/293-1151 | and the second s |
| a. circlespe qua an ilipropagament in | W.R. Grace & Company | Phosphata | Rock Drying | Partow Polk County | Particulate 840 T/Y | L.L. White Office: 813/533-2171 Res: 813/686-1261 | g. |
| | W.R. Grace & Company | Phosphate | Fertili- zer Mfg. | Polk County | SO, 11800.0 T/Y | J.L. Connolly Office 813/533-2171 Res: 813-686-7388 | |

| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |
|--------------------------------|----------------------|---|------------------------------|---|--|--|
| Griffin, Ben Hill Company | Citrus | мен у досторова до родине в со отще продолжения от насто | Bartow Polk County | Particulate 72.3 T/Y SO ₂ 127.8 T/Y | James E. Redd B.H. Griffin, Pres. 813/635-2251 | |
| Griffin, Ben Hill, Company | Citrus | ng ing groupping agus sa sa | Frostproof Polk County | | James E. Redd B.H. Griffin, Pres. .813/635-2251 | agter all the group of the control o |
| IMC Corp. | Phosphate | | West Polk Polk County | Particulate 170.5 T/Y | K.E. Nielsen, Mgr. Res: 813/646-4032 Office: 813/533-1121 | |
| IMC Corp | Phosphate | • | Clear Springs Polk County | Particulate 107.0 T/Y | O.G. Plorence, Mgr. Res: 813/683-4411 Office: 813/533-1121 | |
| Kraft Fooeds | Citrus | | Lakeland Polk Connty | Particulate 64.0 T/Y | Anthony Maltese, Plt.Mgr. 813/686-1173 | |
| Lakeland, City (Parker Dr.) | Electric Utiltity | Steam Generation | Lakeland Polk County | | C.D. McIntosh, Director 813/683-6561 | |
| Lakeland City Of (Larsen) | Electric Utility | Steam Generation | Lakeland Polk County | Particulate 43.78 T/Y SO ₂ 2565.8 T/Y | C.D. McIntosh, Director 813/682-8163 | |

| Excavating Paving Co. | | | Polk County | | 646-1588 | |
|-----------------------------------|------------------|---|---------------------------|--|--|--|
| Blue Seal | Asphalt | Drying | Lakeland | Particulate 33.0 T/Y | W.M. Redding | and the second second to the property of the second second second second second second second second second se |
| Americal Cyanamid Company | Phosphate | Drying & Shipping | Bradley Polk County | Particulate 2970 T/Y SO ₂ 564.0 T/Y | R.C. Timberlake, Plt. Mgr. D.C. Rice, Drying & Ship Manager 813/428-1411 | |
| Aluminum Company of America | Alumninum | | Fort Meade Polk County | | W.W. Williams, Works Manager Office: 813/285-8101 Res: 813/646-4118 N.V. Lubbers, Prod.Supt. Office: 813/285-8101 Res: 813/646 | Time to shut down 8 hours. Time to decrease emissions 6 hours. |
| Alcoma Packing Comapny | Citrus | hanga pinganganga magamanga mananga mananga kababahan | Lake Wales Polk County | 50 ₂ 47.0 T/Y | John C. Updike, Pres. 813/676-3487 | tion and the state of the state |
| Agrico Chemical Company | Phosphate | • | Pierce Polk County | Particulate 78.0 T/Y | John A. Layton, Mgr. 813-428-1431 | |
| Agrico Chemical Company | Phosphate | | Pierce Polk Co. | Particulate 3495.0 T/Y. SO ₂ 2800.0 T/Y | John A. Layton, Mgr. 813/428-1431 | |
| Adams Packing Company | Citrus | • | Auburndale Polk County | Particulate 669.9 T/Y | H.W. James James A. Goff, V. Pres. 813/967-1151 | |
| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |

| Chemical Company | Phosphate | Drying & Shipping | N.E. OF Lakeland | Particulate 1075.0 | enement registered registered provided and the second of the second seco | Communication of Action (19) process of the Acti |
|-------------------------------|---|--|------------------------------|---|--|--|
| | Mary and later in account to have a similar and a second to the | : : : : : : : : : : : : : : : : : : : | Polk County | * * * * * * * * * * * * * * * * * * * | B.L. Sapp Office: 813/686-2143 Res: 813/752-6708 |) |
| | li trus | Boiler | Lake Wales Polk County | Particulate 535.1 T/Y SO ₂ 375.8 T/Y | Marvin H. Walker, V.Pres. 813/676-1411 | |
| Mobil Chemical Pl Company | Phosphate | • | Nichols Polk County | Particulate 107.0 T/Y | 'K.D. Ferrow, Mgr.Eng Office: 813/425-3011 | |
| Orlando As Paving Co. | sphalt | Drying . | Polk County | Particulate 167.0 T/Y SO 2 26.3 T/Y | Orlando 305/293-4340 | |
| Owens - GI Illinois | 1255 | ин терирен (1 колону в постоя | Winter Haven Polk County | Particulate 50.4 T/Y SO 32.7 T/Y | Russell D. Hobbs 813/294-4431 J.L. Sommerfield, Plt.Mgr. | |
| D.S. Prosser Ci | itrus | | Highland City Polk County | Particulate 67.6 T/Y | D.S. Prosser, Jr. 813/646-1436 | |
| Redd Orange Ci Concentrate | itrus | COLOR DE L'ANNE DE L | Lake1and | Particulate 34.1 T/Y | John E. Stehr, Pres. | The second secon |

| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |
|--|------------------|-----------------------|------------------------------|---|--|--|
| Royster | Phosphate . | Sulfuric Acid | Mulberry Polk County | . SO ₂ 1660.0 T/Y | R. Cox - Office 813/425-1176 E. Bracoury R. Hamm ck L. Mille | |
| Suni-Citrus Product Co. | Citrus | | Haines City Polk County | Particulate 54.0 T/Y | Emory Coche 813/422-1127 | |
| Swift Agricultum Chemical Corp. (Agricola) | ral P.osphate | д Д | WinterHHaven Polk County | Particulate 481.75 T/Y SO ₂ 1802.5 T/Y | Robert H. Dean Proj. Engineor 813/533-7164 810/875-0894 Leslie D. Alderman/813/29 | 13~3147 |
| Dixia Lime & Stone Company | Mineral | Fine Lime Stone | Sumterville Sumter County | Particulate 4390.0 SO ₂ . 304.5 NO _x . 45.9 | Office: 904/793-3111 E.D. Riggs, Plt.Mgr. Res: 694-2564 | Calcium Carbonate dryer-shut down with minimum notice. |
| | | Quicklime | | Particulate 1095.0 S02 507.0 NO _X 76.65 | F.G. Andrews - Supervisor Res: 904/793-3271 W.W. Reynolds - Supervisor Res: 904/793-3369 | Can cut production 40%. Lime burning kiln 6 hrs. to cut pro- duction 42%, 12 hrs. to shut down. |

CENTRAL FLORIDA REGION SOURCE DIRECTORY

| Florida Food Products, Inc. | Citrus | | Eustis Lake Co. | Particulate 162.0 T/Y | Jerry Brown, Pres. 904/357-4141 | |
|---------------------------------------|---------------------|---------------------|---|---|---|--|
| Coca-Cola Company | Citrus | | Leesburg | Particulate 422.0 T/Y | John M. Cahill 843-9250 | |
| B & W Canning Co. | Citrus | | Groveland Lake Co. | Particulate 244.0 T/Y | E.C. Busbee, Pres. 904/429-2101 | |
| Weekley & White Corp. | Asphalt | Drying | Rockledge Brevard Co. | Particulate 120.0 T/Y | W.D. Weekley, Pres. 305/983-4636 | |
| Orlando Utilities Commission | Electric Utility | Steam Generation | Titusville Brevard Co. | Particulate 88.9 T/Y SO ₂ 2430.0 T/Y | C.H. Stanton 305/841-1230 | |
| Houdaille- Duval-Wright Company | Aspha1t | Drying . | Sharpes Brevard Co. | Particulate 78.0 T/Y SO ₂ 113.5 T/Y | B.E. Ellis, grp.mgr. 904/356-1951 W.S. Burns, Pres. 800/342-2461 | |
| Florida Power & Light | Electric Utility | Steam Generation | Cape Kennedy Plant #2 Brevard Co. | Particulate 342.5 T/Y SO ₂ 13,061.0 T/Y | Systems Dispatcher 305/374-7557 Ben H. Fuqua 305/445-6211 | |
| Florida Hot Mix Corp. | Asphalt | Drying | Eaugallie Brevard Co. | Particulate 9.7 T/Y SO ₂ 116.0 T/Y | William F. LaLonde 305/254-8929 | • |
| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |

| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE. |
|------------------------------------|----------------------|--|--------------------------------|---------------------------------------|--|---|
| Golden Gem Growers | Citrus | Drying | Umatilla Lake Co. | Particulate 69.3 T/Y | W.N. Sebree, Prod.Mgr. 904/669-2101 | |
| Silver Springs Citrus Coop. | Citrus | Drying | Howey-in-the-Hills Lake Co. | Particulate 49.2 | B.C. Youngblood Phillip Tope 305/656-1122 | |
| Basic Asphalt Corp. | Mineral (Asphalt) | | Orlando Orange Co. | | S.W. Carlson, Pres. 305/293-2878 | |
| Orlando Paving Co. | Aspha1t | Drying | Orlando Orange Co. | Particulate 321 T/Y | 305/293-4340 | |
| Orlando Utilities Commission | Electric Utility | Steam Generation | Orlando Orange Co. | SO ₂ 390.45 T/Y | Curtis H. Stanton, V.Pres 305-841-1230 -reached thru | 1 |
| Plymouth Citrus Prod. Coop. | Citrus | Drying | Plymouth Orange Co. | Particulate 200 T/Y | L.L. Mallory C.B. Smith D.C. Carpenter 305/886-1111 | |
| Southern Fruit Distributor | Citrus | The second secon | Orlando Orange Co. | Particulate 830 T/Y | A.A. Cornso, Pres. 305/241-9531 | |
| Osceola Fruit Distributors | Citrus | | Kissimmee Osceola Co. | SO 2 29.8 T/Y | Jerry Ivey, Pres. 305/847-3141 305/847-3145 | |

| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR PCLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |
|-----------------------------------|---------------------|--|------------------------------|---|---|--|
| Hi-Acrea Cove, Inc. | Citrus | energing was being the content of th | Orlando Seminole Co. | Particulate 154.5 T/Y | Charles E. Bradshaw, 305/838-3110 | Pres. |
| Daytona Beach Paving | Asphalt | Drying | Daytona Beach Volusia Co. | SO ₂ 58.2 T/Y | 305/767-1451 | |
| Florida Power & Light Co. | Electric Utility | Steam Generation | Sanford Volusia Co. | Particulate 205 T/Y SO ₂ 6097 T/Y | Systems Dispatcher 305/374-7557 | Alert: Switch to low sulfur fuels as available. Warning: Increase load on nuclear plants, start gas turbines. Emergency: Transfer power where possible |
| H.W. Given Company | Citrus | Drying . | Deland Volusia Co. | Particulate 87.5 | S.H. Given, V.Pres. Office: 734-4634 Home: 734-4704 | to The Control of Cont |
| Houdaille- Duval-Wright Co. | Aspha1t | Drying | Ormond Beach Volusia Co. | Particulate 77.0 T/Y SO ₂ 129.0 T/Y | 800/342-2461 Jacksonville 904/672-3911 | |
| Seminole Asphalt Refining | Asphalt | Drying | St. Marks Volusia Co. | Particulate 49.38 T/Y S02 169.45 T/Y | | |

SOUTHEAST FLORIDA REGION SOURCE DIRECTORY

| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTIO PLAN GIVEN IF AVAILABLE |
|-----------------------------------|---------------------|--|--|---|--|--|
| Dixie Asphalt Co. | Asphalt | Drying | Deerfield (Broward County) | Particulates 176.0 T/Y SO ₂ 387.5 T/Y | Jay S. Eaton (305)399-3043 | |
| Florida Power & Light Company | Electric Utility | Steam Generation | Dania, Port Ever- glades, Broward County | Particulate 1224.5 T/Y SO ₂ 40394.5 T/Y | Systems Dispatcher (305)374-7557 | Alert: Switch to low sulfur fuels as available. Warning: Operate nuclear plants at maximum capacity, start turbines. Emergency: Transfer power where possible. |
| Aerodex, Inc. (Miod) | Aircraft | консторийнун ш айн ой үйлөгө хөв ө хүнхэн харусаг (ойон, <i>ой</i> ойой | Miami (Dade County) | S0 ₂ 27.5 T/Y | R. M. Tonhs, Pres. (305)887-0241 | and dependency purple cracks care done to our period and of the Profession of Arthodological College |
| Aluminium Anodizing Co. | Anodizing | | Miami (Dade County) | S0 ₂ 58.5 T/Y | Donald E. Hammerstrom, (305)691-8352 | VP. |
| Asphalt Material Paving, Ind. | Asphalt | Drying | Miami (Dade County) | Particulate 1,048.3T/\ 802 66.0 T/Y | B. Newton Gilmore, Ex.V (305) 667-2551 | .P. |
| Brewer Co. of Fla. (Medley) | Asphalt | Drying | Miami (Dade County) | Particulate 1,041.3T/ S0 ₂ 29.7 T/Y | Y C. H. Munz, President (305)635-4563 | |
| Brewer Co. of Fla. (Medley #2) | . Asphalt | Drying | Miami (Dade County) | Particulate 2,600T/Y SO ₂ 106.0 T/Y | C. H. Munz, President (305) 635-4563 | |

| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |
|---|---------------------|---------------------|--|--|---|--|
| Brewer Co. of Fla (H omestead) | . Asphalt | Drying | Homestead (Dade County) | Particulate 467.0 T/Y | C. H. Munz, Pres. 305/635-4563 | |
| DuPont Plaza Center | Office Building | Steam Generation | Miami (Dade Co.) | S0 ₂ 26.9 T/Y | 305/378-2541 | |
| Fla. Portland Cement Div. | Cement | Steam Generation | Miami (Dade Co.) | Particulate 690.0 T/Y S02 2,814.0 T/Y | 305/377-0456 | the many and propagation consists and the confidence of the confid |
| Fla. Power & Light Company | Electric Utility | Steam Generation | Miami, Culter Ridge, Turkey Pt., Dade County | Particulate 942.8 T/Y S0 ₂ 37959.6 T/Y | Systems Dispatcher 305/374-7557 | Alert: Switch to low sulfur fuels as available. Warning: Operate nuclear plants at maximum capacity, |
| 39 60 | | | | | | start turbines. Emergency: Transfer power where possible. |
| Lehigh Portland Cement Cempany (Medley) | Cement | Concrete Block | Medley (Dade Co.) | S0 ₂ 86.2 T/Y | John M. Arribas, Jr. J. F. Bennett, Sales Mgr. 305/379-6548 | |
| Lehigh Portland Cement Company | Cement | Concrete Block | Miami (Dade Co.) | Particulate 187.0 T/Y S0 ₂ 198.0 T/Y | J. F. Bennett, Sales Mgr. 305/379-6548 | accommissioners of physical and manufactures and the commission and an accommission and accommission accommission and accommission accommission and accommission accommission accommission and accommission accom |
| Mary MacIntosh Services, Inc. | Laundry & Dry | | Miami (Dade So.) | S0 ₂ 96.5 T/Y | 305/373-6601 | |

| COMPANÝ | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACT PLAN GIVEN IF AVAILABLE | 'IO |
|---------------------------------------|-------------------------|---|--------------------------|---|--|--|-----|
| Maule Industries | Mineral (Cement) | Drying | Medley (Dade Co.) | Particulate 200.7 T/Y | H. B. Burks 305/823-6570 J. J. Feira 305/823-5861 | 12 hours required to shut down. | |
| Northeast Incinerator | Municipal Incinerato | martinetaris | Miami (Dade Co.) | Particulate 3900 T/Y | N. W. 12th Ave. 305/377-5528 | TK Claim Commenced and the efficiency could be given the efficiency claim to claim the commence of the claim to | |
| Pan American Construction Co. | Asphalt | Drying . | Miami (Dade Co.) | Particulate 955.0 T/Y | 305/887-3501 | | |
| Robert Russell Metals Inc. | Smelting | ter territoria de la compositiva de la | Miami (Dade Co.) | Particulate 64.28 T/Y | 305/635-1402 | magnic cold-re-service assessmental purpose consider assessment assessment assessment costs consequently | U |
| Seaboard Coastline R.R. Company | RR Service | enaderadagapan pantaga diga di selam da ana manga et esta di selam da ana da d | Miami (Dade Co.) | S0 ₂ 44.5 T/Y | 305/371-6611 | | . • |
| South Dade Asphalt | Asphalt | Drying | Miami (Dade Co.) | Particulate 286.0 T/Y | 305/237-7722 | | |
| J. S. Foundry Mfg. Corp. | Foundry | gagagan is a myammikara ya yani atiyani gaga wa iyani yawa ya ya ka iya iya iya iya iya iya iya iya iya iy | Miami (Dade Co.) | Particulate 35.1 T/Y | Alex DeBogory, Jr. Pres. 305/888-2347 | Transmitters data to the contribution and the state of th | , |
| Key West, City of | Electric Utility | Steam Generation | Key West (Monroe Co.) | Particulate 60.7 T/Y S0 ₂ 1404.0 T/Y | Jos. S. Roberts, Mgr. 305/296-5651 Leonary Curry | e annuar ann an Airle a guir mhair ann am Airle an Airle | |
| | | | | | | | |

| COMPANY | TYPE INDUSTRY | PROCESS | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE |
|--|---------------------|---|---------------------------------------|--|--|---|
| Atlantic Sugar Assoc. | Sugar | • | Belle Glade (Palm Beach County) | Particulate 300.0 T/Y S0 ₂ 74.0 T/Y | Sam Knight, Sr. Pres. 305/996-6541 | |
| Dixie Asphalt | Asphalt | D ving | West Palm Beach (Palm Beach Co.) | Particulate 176.0 T/Y S02 387.5 T/Y | Jay S. Baton, V.P. 305/683-0430 | |
| Florida Power E Light Co. | Blectric Utility | Steam Generation | Riviera leach (Palm Beach Co.) | Particulate 553.9 T/Y 502 18565.0 T/Y | Systems Dispatcher 305/374-7557 | Alert: Switch to low sulfur fuels as available. Warning: Operate nuclear plants at maximum capacity, start Turbines. Emergency: Transfer power where possible |
| Florda Sugar Corp. | Sugar | | Palm Beach County | Particulate 300.0T/Y SO2 220.0 T/Y | Frank L. Froment, V.P. 305-996-5518 | |
| Gulf and Western Food Products Co. | Sugar | er en | South Bay Palm Beach County | Particulate 1720.0 T/Y SO ₂ 1379.0 T/Y | Arthur Kirstein III | |
| Osceola Farms Co. | Sugar | | Pahokee Palm Beach County | Particulate 1460.0 T/Y SO ₂ 232.0 T/Y | Rafael Fanjul 924-7116 924-7117 924-7391 | |

| CONFANT | WASSERY. | PACCESS | LOCATION | MAJON POLLUTANTS ENTITED AND SWANTITY | RESPONSIBLE PERSONS IN CHARGE AND PRONE MURSER | TIME THAT IF PLAN STYER IF AVAILABLE |
|--------------------------------------|----------------------|---------|--------------------------------------|--|---|--|
| Rite-Way Paving | Mineral (Asphale) | Drying | West Palm Reach Palm Beach County | | J.L. Boling, President 305-663-5484 305-681-1923 | |
| Rubin Construction Company | Mineral (Asphalt) | . Ying | West Palm Beach Palm Beach County | Par iculata 132.0 T/Y SO ₂ 163.0 T/Y | R.F. Le inson. V. Pres. J.R. Brc n. Adm. V. I ns. 305-683-100 | |
| Sugar Cane Grovers Coop of Fla | Sugar | Boilers | Beile Glade Paim Beach County | Particulate 1032.5 T/Y SO ₂ 1547.3 T/Y | George Wedgewort: 305-996-5556 | |
| Tallemen Suger Corp. | | | Pelle Glada Palm Beach County | Particulate 1090.0 T/Y SO ₂ 117.8 T/Y | Higuel Cervera 996-5527 W.D. Pauley, 305-996-5527 | |
| U.S. Sugar Corp. | ALGET | | Clewiston Paim Beach County | Farticulate 1300.0 T/Y 502 278.0 T.Y | E.T. Vaughh, President 813-983-8121 | |
| Treesweet Prod. Co. | Citrus | Deylng | Ft. Pierce St. Lucie Co. | Particulate 699.5 T/Y | W.E. Parker, Gen. Mgr. E.D. Hawkes, Prod. Mgr. Office: 305-481-3800 | |

SOUTHWEST FLORIDA REGION SOURCE DIRECTORY

| COMPANY | TYPE INDUSTRY | PROCESS. | LOCATION | MAJOR POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ABILITY TO CUT PRODUCTION & LEAD TIME INVOLVED, ACT O PLAN GIVEN IF AVAILABLE |
|---|----------------------|----------------------|---------------------------------------|--|--|---|
| Warren Brothers Company | Asphalt _. | Drying | Naples Collier Co. | -Particulate 270.0 TM | 813/774-0221 | |
| DeSota Canning Company | Citrus | Dry41.3 | Arcadia DeSoto Co, | SO2 22.26 T/X' NO _X 53.64 1/X | B.f. N xon, Plt. Supt. 841/92 - 1191 929-2201 | Shut down can be accomplished in 2 days without spoiling fruit. |
| Myakka Processors, Inc. | Gitrus | Drying | Hwy. 72 West Arcadia DeSato Co. | Particulate 170.0 T/Y SO2 203.5 T/Y NO. 30.8 T/Y | N.P. Cooper, Jr V. Pres. B.E. Russell, Sec. Pit. 813/927-2201 927-4741= | Shut down can be accomplished almost immediately. However fruit would spoil & required time to process remaining fruit would be 16 hours. |
| Everglades Sugar Refinery Inc. | Sugar | Boilers Char kiln | Clewiston Rendry Co. | Particulars 105.5 T/Y S02 359.4 T/Y | W.R. Willis, Plt.Mgr. R.B. Dickey, Asst.Plt. Mgr. 813/983-8171 983-8172 | Shut down time is 6 licers. |
| Ewell Engineer- ing & Contract- ing Company | Asphalt | Drying | Ft. Basinger Highlands Co. | Particulate 52.0 T/Y 50 ₂ 56.7 T/Y | J.L. Ewell, Pres. Bred B. Gibbs, Supr. Plant City Office Hillsborough 752-2716 | |
| Florida Power Corp: | Electric | Steam Generation | ĤŶġĥiĒāā\$ co. | Perticulate 83.7 T/Y 502 710:0 T/Y | G.W. Marshall - Prod. Supt. 5.A. Brandemore 813/898-2141 | |

| Warren Brothers Company | Asphalt | Drying | Sarasota Sarasota Co. | Particulate 39.2 T/Y | 813/333-7178 | |
|------------------------------------|---------------------|---|--|--|---|---|
| Warren Brothers Company | Asphalt | Brying | Ft. Meyers Lee County | Particulate 34.8 T/Y So ₂ 46.5 T/Y | 813/936-2105 | |
| | USE & Sale Grap | | The section of the se | NC 376.5 1/Y NO. 7047.9 1/7 | | available. Warning: Incresse nuclear load, start ges turbines. Bacrgency: Transfor power from outside affected areas. |
| Plorido Power 5 Light Co. | Alectric | gel Canada and an | Tice Leo County | Particulate 549.7 T/Y SO ₂ 19823.0 T/Y | Systems Dispetcher 205/374-7357 | Alert: Switch to low sulfur fuels as |
| Sebring U.11iiles Commission | Electric Unility | Steam | Sobring Highlands Co. | 80 ₂ 130.5 7/3 | Sympat C. White. Pres. James H. Phillips 313/385-5766 | |
| Macasphalt Corp. | Asphalt | Drvies | Lake Placid Highlands Co. | 50, 115,4 7/ | Willia Thalonds A.P. Lateon, Fres. 813/68, 5116 (Lakels e) | |
| COMPANY | TYPE Industry | process | LOCATION | MATCR-POLLUTANTS EMITTED AND QUANTITY | RESPONSIBLE PERSONS IN CHARGE AND PHONE NUMBER | ANALITY TO CUI PRODUCTION & LEAD TIME INVOLVED, ACTION PLAN GIVEN IF AVAILABLE, |

COMMUNICATION WORK SHEET

| Level I | eclared: _ | | yrachasgaighidh dhaga girsa | | | |
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| | | | Person | | | |
| Polluta | on Source | 280: | Contacted | Time | Call By | (intials) |

COMMUNICATION WORK SHEET (cont.)

| Level Declared: | | | | | |
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| Air Pollution Local Program | Proceedings - and Artifact Applications are all the second and and a second action of the second and a second action of the second acti | Person Contacted | Time | Call By | (intials) |
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| | | Person | | | |
| Public Media | - Andrew State of the State of | Contacted | Time | Call By | (intial) |
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| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | • | |

APPENDIX A

1971 Summer AIR QUALITY MEASUREMENTS

SITE CODE: 10 4360002 LATITUDE: CITY NAME: TAMPA STATE (10): FLORIDA LONGITUDE: UTit ZONE: SITE ADDR: HEALTH CENTER ROOF 1105 E KENNEDY UTM NOPTHING: AOCR (96): WEST CENTRAL FLORIDA
SIISA (8280): TAMPA-ST. PUTURSBURG, FLA.
COUNTY (1800): HILLSBOROUGH
AGENCY TYPE: EPA/ATMOS. SURV.
AGENCY/PROJECT CODE: AOI UTM EASTING : ELEVATION ABOVE GROUND: ELEVATION ABOVE MSL: CITY POPULATION: 470000 AOCR POPULATION: 1491570 STATION TYPE (13): CENTER CITY-COMMERCIAL EPA-REGION: 4 TIME ZONE (E): EASTERN SUPPORTING AGENCY: HILLSBOROUGH CO. POLLUTION CONTROL COMMISSION COMMENTS:

S. NORTH

S. WEST

| | | | SITE NAME | | SITE | YEAR | ETPOM | D4 Y | VALUE | PAST DATA | |
|-------|---|-------|-----------|---|------|------|-------|-----------|------------|---------------------------------------|-----|
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LATITUDE: D. M. S. NORTH
LONGITUDE: D. M. S. WEST
UTM FONE:
UTM ACRTHING:
UTM FASTING:
ELEVATION ABOVE GROUND: 45
ELEVATION ABOVE MSL: 55
CITY POPULATION: 201030
ACCR PCPULATION: 1315530
EPA-REGION: 4

A-5

INDIEMERTATION PLAN - SUMMER STUDY DATA NITROGEN CICYTON 24-HOUR DATA JACORS-HOCHHEISER METHOD REPORTED IN MICROGRAMS REP CUBIC METER

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SITECHDE: 102703002
CITYNAMS: MIAMI
STATE (10): FLCRIDA
SITE ADDR: 864 NUPTHWEST 23RD STREET
ACCR (49): SOUTHEAST FLORIDA
SYSA (5000): MIAMI, FLA.
CDUMITY (0860): DADE
AGENCY/PROJECT CHOE: AD1
STATION TYPE ():
TIME ZONE (E): EASTERN
SUPPORTING AGENCY: DADE COUNTY HEALTH DEPARTMENT
CDMMENTS:

LATITUDE: D. M. S. NORTH
LONGITUDE: D. M. S. WEST
UTH ZONE:
UTH NORTHING:
UTM_EASTING:
ELEVATION ABOVE GROUND: 15
ELEVATION ABOVE MSL: 10
CITY POPULATION: 291688
AOCR POPULATION: 2415327
EPA-REGION: 4

A-7

OCT 27, 1971

IMPLEMENTATION PLAN - SHMMER STUDY DATA MITRIGHM DIJXIDE 24-HOUR DATA JACOBS-HOCHHEISER METHOD REPORTED IN MICROSRAMS PER CUBIC METER

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APPENDIX B

Chapter 403

FLORIDA AIR AND WATER POLLUTION CONTROL ACT

CHAPTER 403

FLORIDA AIR AND WATER POLLUTION CONTROL ACT

| | · · · · · · · · · · · · · · · · · · · |
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| 403.011 | Snort title: |
| 403.021 | Legislative declaration; public policy. |
| 403.031 | Definitions. |
| 403.041 | Florida Air and Water Pollution Con- |
| 400.04E | trol Commission. |
| | Air and water pollution control board. |
| 403.051 | Board meetings; hearings and pro- cedure: witnesses. |
| 403.061 | Department; powers and duties. |
| 403.062 | Pollution control; underground water, lakes, etc. |
| 403.071 | Director; powers and duties. |
| 403.081 | Performance by other state agencies. |
| 403.085 | Sanitary sewage disposal units; ad- |
| . • | vanced and secondary waste treat- |
| | ment. (New) |
| 403.091 | Inspections. |
| 403.101 | Classification and reporting. |
| | Confidential records. Enforcement; procedure. |
| 403.121 | Injunctive relief; emergency proce- |
| | dure. |
| 403.141 | Additional civil liability; assessment |
| 100 000 | of damages. |
| 403.151 | Compliance with rules or orders of |
| 403 161 | department. Prohibition:/ violation, penalty,/intent. |
| 403.171 | Judicial review. |
| | Local pollution control programs. |
| | Water pollution control and sewage |
| | treatment. (New) |
| | Same; definitions. (New) |
| 403.1823 | Department of air and water pollution |
| • | control to administer; develop rules and regulations. (New) |
| 409 1904 | |
| | Establish fund. (New) |
| | Grant payments. (New) |
| 403.1826 | Grants, requirements for eligibility. |
| A03 1997 | (New) Planning grants. (New) |
| | |
| | Official plans, approval; technical assistance; cooperation. (New) |
| | Funding of projects; priorities. (New) |
| 403.1830 | State advances in anticipation of con- |
| | struction funds. (New) |
| 403.1831 | State advances in anticipation of contract plan funds. (New) |
| 403.1232 | Department to accept federal aid. |
| 403.1833 | Appropriations: state water pollution control fund. (New) |
| 403.1834 | State bonds to finance facilities, (New) |
| 403.191 (| Construction in relation to other law. |

403.201 Variances. 403.212 Regulations validated. 403.221 Pending proceedings. 403.231 Department of legal affairs to represent the state. 403.251 Safety clause. 403.261 Provisions specifying jurisdiction repealed. 403.271 Aquatic plants; permits; penalties. 403.281 Definitions; weather modification law. 403.291 Purpose of weather modification law. 403.301 Artificial weather modification operation; license required. 403.311 Application for licensing; fee. 403.321 Proof of financial responsibility. 403.331 Issuance of license; suspension or revocation; renewal.
403.341 Filing and publication of notice of intention to operate; limitation on area and time. 403.351 Contents of notice of intention. 403.361 Publication of notice of intention. 403.371 Proof of publication. 403.381 Record and reports of operations. 403.391 Emergency licenses. 403.401 Suspension or revocation of license;

appeal.

403.411 Penalty.

air and water pollution control programs and to be supported to the extent practicable as casential instruments to provide for a coordinated statewide program of air and water poilution prevention, abatement and control for the securing and maintenance of appropriate levels of air and water quality.

(5) It is hereby declared that the proves tion, abatement and control of the pollution of the air and waters of this state are affected with a public interest, and the previsions of this act are enacted in the exercise of the police powers of this state for the purpose of protecting the health, peace, and safety, and general welfare of the people of this state.

(6) The legislature finds and declares that control, regulation, and abatement of the activities which are causing or may lause pollu-tion of the air or water resources in the state and which are or may be detrimental to buman, animal, aquatic, or plant like, or to property, or unreasonably interfere with the comfortable enjoyment of life or property be increased to insure conservation of natural vosources, to insure a continued safe environment, to insure purity of air and water, to insure domestic water sumplies, to insure protection and preserved of the public health, safety, welfare, and economic well-being, to insure and provide for recreational and wildlife needs as the population increases and the economy expands, to insure a continuing growth of the economy and industrial develop-

The legislature further ands and do-(7)clares that:

(a) Compliance with this law will require capital outlays of hundreds of millions of dollars for the installation of machinery, equipment, and facilities for the treatment of industrial wastes which are not productive assets and increased operating expenses to owners without any financial return and should be separately classified for assessment purposes;

(b) Industry should be energiaged to stall new machinery, equipment and facilities as technology in environmental matters advances, thereby improving the quality of the sir and waters of the state and benefiting the citizens of the state without pecuniary benefit to the owners of industries, and the legislature should prescribe methods whereby just valua-tion may be secured to such owners and exemptions from certain excise taxes should be offered with respect to such installations;

(c) Facilities as herein defined should be classified separately from other real and persoud property of any manufact, ing or prosessing plant or installation, as such facilities contribute only to general websars and health and are assets producing no profit return to

owners; and

(d) In existing manufacturing or processing plants it is more difficult to chiain satisfactory results in treatin- adustrial wastes than in new plants the new planned or constructed and that with respect to existing plants in many instances it will be necessary to demolish and remove substantial portions thereof and replace the same with new and more modern equipment in order to more effeetlyely treat, eliminate or reduce the objectional characteristics of any industrial wastes and that such replacements should be classified and assessed differently from replacements made in the ordinary course of business.

Matory.-- 33, ch. 67-456.

403.031 Delinitions.—In constraing this chapter, or rules and regulations adopted pursuant thereto, the words, phiness or terms, unless the context otherwise indicates, shall have the following nicanings:

"Director" is the director of the com-

mission.
(5) "Pollution" is the presents in the outdoor atmosphere or waters of the state of any one or more substances or contaminants in quantities which are or may be potentially armful or injurious to human health or welfare, animal or plant life, or property, or unreazonably interfers with the enjoyment of life or property, including outdoor recreation.

(4) "Waters" shall include, but not be limited to rivers, lattes, streams, springs, impoundments, and all other waters or bodies of water, including fresh, bracksh, saline, tidal, sur-face or underground Waters owned entirely by one person other than the state are included only in regar to possible discharge on other property of water. Underground waters include, bat are not limited to, all underground waters passing through pores of rock or soils or flowing through in channels, whether man-made or

materal.
(5) "Contaminant" is any substance which

is harmful to plant, animal or human life.

(6) "Waster" mean sowage, industrial wastes, and all other liquid, gaseous, solid, radicactive, or other substances which may pol-

into or tend to pollute any waters of the state.

(7) "Irratment works" and "disposal systemo" means any plant or other works used for the purpose of treating, stabilizing, or

holding wastes.
(3) "Newerage system" means pipelines or exacuits, numping stations, and force mains, and all other structures, devices, appurteunness, and facilities used for collecting or conducting westes to an ultimate point for tres (mont or dispose).

(9) "Installation" is any structure, equipment, facility, or apportenances thereto, or operation which may emit air or water con-Aminants in quartities prohibited by rules of

the department

(10) "Fla " is any unit operation, complax, area, or multiple of unit operations that produce, pricess, or cause to be processed any motorials, the processing of which can, or may, cause air or water pollution.

(11) "Source" is any and all points or origin of the item defined in pubsection (5) of this pection whether privately or publicly

oward or opposited.
(12) "Furson" means the state or any tgener of inctitution thereof, any municipalportation, individual, partnership, association, or other entity, and includes any officer or govexpline or mareging body of any municipality, political subdivision, or public or private corporetios.

Ministry - 14, the 67-bit 1122, 33, ch. 63-103.

- Pater - 34 the following with 826, ch. 68-108, the editors have substituted a definition of the term "department" for the definition of the term. "General L. n." Subsection (2) was rendered ebsolute by said section and with he repealed in a subsequent verteer's bill.

2403.041 Riccids Air and Water Pollution Control Commission. There is hereby created and established the Florida Air and Water Pollution Control Commission, hereinafter referred to as the commission. The commission shall be composed of the governor, the secretary of state, the attorney general, the commissioner of agriculture, and two discreet citizens appoint d by the governor and confirmed by the senate. The governor shall serve as the chairman of the commission. Members of the commission shall serve without compensation, but shall be entitled to per diem and travel expenses as provided by §112.081.

Malogy - 80; th. 6 and should the air and water polition control control control of the strand and transferred its functions, powers, and differ to the department of air and water polition control. This sections will be remarked two subsequent regimes will

403.045 Air and water pollution control board.—The head of the department of air and water pollution control is the air and water pollution control board. The board shall be composed of five citizens appointed by the governor, subject to confirmation by the senate. The members of the board shall serve at the pleasure of the governor.

Mistory.—\$25, ch. 69-105.

403.051 Hearings and notice thereof relative to adoption or repeal of regulations; witnesses.—

- *(1) The commission shall hold regular meetings not less than quarterly and such additional meetings as may be required for the proper discharge of its duties. Meetings may be called by the governor or at the request of a majority of the commission.
- (2) No rule or regulation, or amendment or repeal thereof, shall be adopted by the department except after public hearing held for that purpose after thirty days prior notice given in the manner which the department shall prescribe. The manner prescribed shall at least include notice by mail to all parties known by the department to be affected by the matters under consideration and some system of newspaper publication reasonably calculated to bring the matter under consideration to the attention of the general public. There shall be stated in such notice the date, time and place of the hearing at which time opportunity to be heard shall be given to all affected parties and the public. To insure due process to all parties affected, the procedures of part II, chapter 120, shall be followed at all hearings of the department, including rule-making hearings.

(3) The department shall cause a transcript of the proceedings at all hearings and

meetings to be made.

- (4) The decision of the department to adopt, modify or repeal a rule or regulation shall be based solely on the preponderance of the competent substantial evidence presented at the public hearing.
- (5) A quorum of the air and water pollution control board shall consist of three members for all hearings and meetings except those required by subsection (2) and §403.121, which shall require a quorum of four, and a majority vote of the entire board shall be required to take action on any matter before the board.
- (6) The department shall have the power, and upon application of any affected party shall have the duty, to compel the attendance of witnesses and the production of evidence on behalf of the state or any affected party.

History. 16, ch. 67-433; \$126, 35, ch. 83-106.

Note. These subsections were rendered obsolete by \$26, ch. 63-106, and will be repealed by a subsequent reviser's bill.

403.061 Department; powers and duties.— The department shall have the power and the duty to control and prohibit pollution of air and water in accordance with the law and rules and regulations adopted and promulgated by it, and for this purpose to:

(1) Approve and promulgate current and long-range plans developed to provide for air

and water quality control and pollution abatement.

(2) Hire only such employees as may be necessary to effectuate the responsibilities of

the department.

(3) Utilize the facilities and personnel of other state agencies, including the division of health of the department of health and rehabilitative services, and delegate to any such agency any duties and functions as the department may deem necessary to carry out the purposes of this act.

(4) Secure necessary scientific, technical, research, administrative and operational services by interagency agreement, contract, or otherwise. All state agencies, upon direction of the department, shall make these services and

facilities available.

- (5) Accept state appropriations, loans and grants from the federal government and from other sources, public or private, which loans and grants shall not be expended for other than the purposes of this act.
- (6) Exercise general supervision of the administration and enforcement of the laws, rules and regulations pertaining to air and water pollution.
- (7) Adopt, modify and repeal rules and regulations to carry out the intent and purposes of this act. Any rules or regulations adopted pursuant to this act shall be consistent with provisions of federal law, if any, relating to control of emissions from motor vehicles.
- (8) Hold hearings relating to the adoption of rules to control or prohibit air and water pollution, including hearings upon complaints for violations.
- (9) To designate a hearing officer to conduct hearings, who shall have the power to issue notices of hearings, subpoenas requiring the attendance of witnesses and the production of evidence, to administer oaths and to take testimony as may be necessary or in conformity with this chapter, and such hearing officer shall certify and file with the department, recommendations, findings of fact, and a proposed order; provided, however, that allhearings for the adoption of rules shall be before the department.

(10) Issue such orders as may be necessary to effectuate the control of air and water pollution and enforce the same by all appropriate administrative and judicial proceedings.

(11) Adopt a comprehensive program for the prevention control, and abatement of pollution of the air and waters of the state, and from time to time review and modify such program as necessary.

(12) In order to develop a comprehensive program for the prevention, abatement, and control of the pollution of the waters of the state, a grouping of the waters into classes may be made in accordance with the present and future most beneficial uses, such classifications may from time to time be altered or modified; provided, however, before any such

classification is made, or any modifications made thereto, public hearings shall be held by the department.

(13) Establish ambient air quality and water quality standards for the state as a whole

or for any part thereof.

(14) (a) Cause field studies to be made and samples to be taken out of the air and from the waters of the state periodically and in a logical geographic manner so as to determine the levels of air quality of the air and water quality of the waters of the state.

(b) Whenever a study is made or a sample collected which proves to be below the air or water quality standard set for air or water, then the department shall determine the source

of the pollution.

(15) Require persons engaged in operations which may result in pollution, to file reports which may contain information relating to locations, size of outlet, height of outlet, rate and period of emission and composition and concentration of effluent and such other information as the department shall prescribe to be filed relative to pollution.

(16) Establish a permit system whereby a permit may be required for the operation, construction or expansion of any installation that may be a source of air or water pollution; provide for the issuance and revocation of such permits and for the posting of an appropriate

bond to operate.

(17) Consult with any person proposing to construct, install, or otherwise acquire a pollution control device or system, concerning the efficacy of such device or system, or the pollution problem which may be related to the source, device or system. Nothing in any such consultation shall be construed to relieve any person from compliance with this act, rules and regulations of the department, or any

other provision of law.

(18) Require that notice be given to it prior to the undertaking of the construction or installation or expansion of any new air or water contaminant sources. Within thirty days of its receipt of such notice, the department shall require, as a condition precedent to the construction or installation or expansion of such sources, the submission of plans, specifications, and such other information as it deems necessary in order to determine whether the proposed construction or installation will be in accord with applicable laws, rules and regulations. If within sixty days of the receipt of plans, specifications or other information required pursuant to this chapter, the department determines that the proposed construction or installation will not be in accord with the requirements of this act or applicable rules and regulations, small issue an order prohibiting the construction or installation. Failure of such an order to issue within the time prescribed herein shall be deemed a determination that the construction or installation may proceed; provided, that it is in accordance with plans, specifications or other information, if any, required to be submitted.

(19) Encourage voluntary cooperation by persons and affected groups to achieve the

purposes of this act.

(20) Encourage local units of government to handle pollution problems within their respective jurisdictions on a cooperative basis, and provide technical and consultative assistance therefor.

(21) Encourage and conduct studies, investigations, and research relating to pollution and its causes, effects, prevention, abate-

ment and control.

- (22) Make a continuing study of the effects of the emission of air contaminants from motor vehicles on the quality of the outdoor atmosphere of this state and the several parts thereof, and make recommendations to appropriate public and private bodies with respect thereto.
- (23) Collect and disseminate information and conduct educational and training programs relating to pollution.
- (24) Advise, consult, cooperate, and enter into agreements with other agencies of the state, the federal government, other states, interstate agencies, groups, political subdivisions, and industries affected by the provisions of this act, rules or policies of the department.
- (25) Adopt, modify and repeal rules governing the specifications, construction and maintenance of industrial reservoirs, dams and containers which store or retain industrial wastes of a deleterious nature.
- (26) Perform any other act necessary to control and prohibit air and water pollution, and to delegate any of its responsibilities, authority and powers, other than rule-making powers, to any state agency now or hereinafter established.

Mistery .- 17, ch. 67-436; 1519, 26, 35, ch. 69-106.

403.062 Pollution control; underground water, lakes, etc.—The department and its agents shall have general control and supervision over underground water, lakes, rivers, streams, canals, ditches and coastal waters under the jurisdiction of the state insofar as their pollution may affect the public health or impair the interest of the public or persons lawfully using them.

Etstery.—12, ch. 29834, 1855; 1826; 35, ch. 69-106; N. 18.—Formerly \$381.43; \$381.251;

*403.071 Director; powers and duties.-

- (1) There shall be a director of the commission who shall be employed by the commission. The commission shall fix the director's compensation unless it is otherwise provided by law. The director shall possess experience in bioenvironmental or sanitary engineering and such other qualifications as the commission may prescribe.
- (2) It shall be the duty of the director to:
 (a) Act as the chief administrative officer for all environmental pollution control programs of the state:

(b) Formulate and recommend rules and regulations for approval or rejection by the commission;

(c) Coordinate all pollution control programs of the state carried on from time to time

by all state agencies; and

(d) Act as agent for the commission in all matters relating to its activities and the discharge of its responsibilities.

Bistory.—18, ch. 67-436.

*Note.—This section was rendered obsolete by \$26, ch. 69-106, which abolished the commission and transferred its functions to the department of air and water pollution control. It will be repealed by a subsequent reviser's bill.

403.081 Performance by other state agencies.—All state agencies, including the division of health of the department of health and rehabilitative services, shall be available to the department to perform, at its direction, the duties required of the department under this act.

Mistory.—\$9, ch. 67-436; \$\$12, 23, 35, ch. 69-106.

403.085 Sanitary sewage disposal units; advanced and secondary wasts treatment.

(1) Neither the division of health of the department of health and rehabilitative services nor any other state agency, county, special district, or municipality shall approve construction of any ocean outfall or disposal well for sanitary sewage disposal which does not provide for secondary waste treatment and, in addition thereto, advanced waste treatment as deemed necessary and ordered by the department of air and water pollution control.

(2) Sanitary sewage disposal treatment plants which discharge effluent through ocean outfalls or disposal wells on July 1, 1970, shall provide for secondary waste treatment and, in addition thereto, advanced waste treatment as deemed necessary and ordered by the department of air and water pollution control by January 3, 1974. Failure to conform by said date shall be punishable by a fine of \$500 for each twenty-four hour day or fraction thereof that such failure is allowed to continue thereafter.

Elistery .-- 111, 2, ch. 70-82.

403.091 Inspections.—Any duly authorized representative of the department may enter and inspect any property, premises or place, except a building which is used exclusively for a private residence, on or at which an air or water contaminant source is located or is being constructed or installed at any reasonable time for the purpose of ascertaining the state of compliance with the law, or rules and regulations of the department. No person shall refuse immediate entry or access to any authorized representative of the department who requests entry for purposes of inspection, and who presents appropriate credentials; nor shall any person obstruct, hamper or interfere with any such inspection. If requested, the owner or operator of the premises shall receive a report setting forth all facts found which relate to compliance status.

Mistory.--- \$10, ch. 67-436; \$820, 35, ch. 69-106.

403.101 Classification and reporting .-

(1) The department, by rule or regulation, may classify air and water contaminant sources, which in its judgment may cause or contribute to air or water pollution, according to levels and types of emissions and other characteristics which relate to air or water pollution, and may require reporting for any such class or classes. Classifications made pursuant to this section may be for application to the

state as a whole or to any designated area of the state, and shall be made with special reference to effects on health, economic, social and recreational factors, and physical effects on property.

(2) Any person operating or responsible for the operation of air or water contaminant sources of any class for which the rules and regulations of the department require reporting shall make reports containing information as may be required concerning location, size and height of contaminant outlets, processes employed, fuels used and the nature and time period or duration of emissions, and such other information as is relevant to air and water pollution and available or reasonably capable of being assembled.

History.-- 111, ch. 67-436; \$526, 35, ch. 69-106.

403.111 Confidential records.—Any information relating to secret processes, methods of manufacture or production which may be required, ascertained or discovered by inspection or investigation, shall not be disclosed in public hearings and shall be kept confidential by any member, officer or employee of the department. Provided that nothing herein shall be construed to prevent the use of such records in judicial proceedings in connection with the prosecution of violations of this act, when ordered to be produced by appropriate subpoena or by order of the court. No such subpoena or order of the court shall abridge or alter the rights or remedies of persons affected in the protection of trade secrets or secret processes, in the manner provided by law, and such persons affected may take any and all steps available by law to protect such trade secrets or processes.

History.-112, ch. 67-436; 1126, 35, ch. 69-106.

403.121 Enforcement; procedure.-

- (1) If the department has reason to believe a violation of any provision of this act has occurred, it shall cause written notice to be served upon the alleged violator or violators. The notice shall specify the provision of the law, rule or regulation alleged to be violated, and the facts alleged to constitute a violation thereof, and may include an order that corrective action be taken within a reasonable time. No such order shall become effective except after reasonable notice and the order is served upon the person or persons named therein and a hearing held if requested within the time specified in the notice; except that injunctive relief may be sought as provided under \$403.131.
- (2) If, after hearing, the department finds that a violation or violations have occurred, it shall affirm or modify its order previously issued, or issue an appropriate order or orders for the prevention, abatement or control of the emissions or pollution involved or for the taking of such other corrective action as may be appropriate. Any order issued prior to a hearing as a part of a notice provided in subsection (1) of this section, or any order issued after a hearing may prescribe the date by which the violation shall cease by fixing reasonable timetables for necessary action to prevent, abate or control the pollution. If after hearing on an order contained in a notice, the department finds that no violation is occurring, it shall rescind the order.
- (3) All testimony taken at any such hearing before the department shall be under oath or affirmation. A full and complete record of all proceedings and testimony presented shall be taken and filed, and upon payment and receipt of all costs or fees allowed there-

for, a certified transcript of the whole or any part of the record shall be furnished to any party in such hearing requesting the same. Upon application of any party, the department shall compel the attendance of witnesses and the production of evidence.

As an alternative enforcement pro-*(4)(a) cedure to that provided in subsections (1)-(3), and applying to persons other than municipalities and political subdivisions, the department or a person or persons designated by it, having reason to believe a violation of any provision of this chapter has occurred which is determined to be of a temporary and noncontinuing nature, including but not limited to spills of a polluting substance, open burning, or sudden discharges of any pollutant, may issue a citation ordering corrective action upon which no administrative hearing shall be required and shall state in the citation the date when such corrective action shall com-mence and when it shall be completed. The department in such citations shall allow periods within which such actions can be reasonably commenced and completed. If corrective action is not commenced or completed, as the case may be, within twenty-four hours after the date fixed for either, the department may refer the case to the prosecuting attorney for the county in which the violation occurred. This subsection shall not be construed as requiring the department to report for prosecution minor violations whenever it determines that the public interest will best be served by a suitable notice of warning. Any person so cited may appeal such action by notice in writing filed with the department, and the chairman or three members of the board may suspend the effectiveness of the citation pending a hearing by the department.

(b) It shall be the duty of each prosecuting attorney to whom any such violation is reported to investigate such violation forthwith, and in the event it shall appear that a vio-lation has occurred, a prosecution therefor shall be instituted and diligently prosecuted to conclusion.

(c) A violation of the provisions of this subsection shall be a misdemeanor.

(d) Nothing herein shall be construed as preventing any other legal or administrative action in accordance with law.

Mistery. 113. ch. 67-438; \$428, 35, ch. 63-108; \$1, ch. 76-114; 11. ch. 70-419. Male. Effective October 1, 1970.

403.131 Injunctive relief; emergency procedure.-If preventive or corrective measures are not taken in accordance with any order of the department, if the department finds that a generalized condition of air or water pollution exists and that it creates an emergency requiring immediate action to protect human health or safety, or if the department linds that a generalized condition of air or water pollution exists and that it creates an emergency requiring immediate action to prevent harm to property or to animal, plant, or aquatic life, the department shall institute proceedings a court of competent jurisdiction for injunctive relief to enforce this chapter or rules, regulations, or orders adopted pursuant hereto. Such injunctive relief may include both temporary and permanent injunctions.

Mistery.—\$14, ch. 97-438; \$\$28, 35, ch. 69-105; \$2, ch. 70-139; \$1, ch. 70-439.

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ment of damages .-

(1) Whoever causes an unlawful discharge of contaminants into the waters of this state which results in damage to the fish and fish food or other damage to said waters is liable to the state for such damages and the reasonable costs and expenses of the state incurred in tracing the source of the discharge and in restoring the waters to their former condition.

(2) Upon the request of any state agency or the alleged violator, the department may consider and assess these damages. If the amount so assessed is not paid within a reasonable time as prescribed by the department, the department may institute civil action in the appropriate court for a judicial determination

of liability and damages.

(3) Nothing herein shall give the department the right to bring an action on behalf of any private person. Nothing herein shall prohibit the department from proceeding forthwith to obtain a judicial determination of the liability and damages. No finding, written report or recommendation of the department made pursuant to this section shall be admissible in evidence in any action.

*(4) In assessing damages for fish killed, the value of the fish is to be determined in accordance with a table of values for individual categories of fish which shall be promul-Sated by the department. At the time the table

is adopted, the department shall utilize tables of values established by the department of natural resources and the game and fresh water fish commission. The total number of fish killed may be estimated by standard practices used in estimating fish populations.

Mistory.--\$15. ch. 67-436; \$126, 35. ch. 69-106; \$1, ch. 70-141. *Note.--Effective October 1, 1970.

403.151 Compliance with rules or orders of department.—All rules or orders of the department which require action to comply with standards adopted by it, or orders to comply with any provisions of this act, may specify a reasonable time for such compliance.

Elistory.--\$16, ch. 67-438; \$426, 35, ch. 63-106.

403.161 Prohibition, violation, penalty, intent.-

(1) It is unlawful for any person:

- (a) To cause the pollution of any of the sir or waters of this state in violation of any rules or regulations adopted by the department pursuant to this chapter; or
- (b) To violate or fail to comply with any order of the department, including orders or rules fixing standards of air or water quality, or permits issued pursuant to its authority.
- Tiolation is punishable by a civil penalty of not more than \$5,000 for the first offense and of not more than \$5,000 for each offense thereafter. Each day during any portion of which such violation occurs constitutes a separate offense. Failure of any offender to pay any fine imposed under this section within a time set by the court when imposing said fine shall be evidence of an intent to continue to violate orders of the department and shall enable the court to enter an order for the offender to cease from doing business or carrying on operations within the state.
- (3) It is the legislative intent that the civil and criminal penalties and fines imposed by the court he of such amount as to insure immediate and continued compliance with this act and rules or regulations pursuant thereto.

Mistory.- 917. ch. 57-438; 9326, 35. ch. 69-105; 81. ch. 70-358; 91, ch. 76-4.3.

403.171 Judicial review.—Any party ag-grieved by any action of the department may seek appropriate judicial review.

Editory.--\$10, ch. 67-436; \$126, 39, ch. 69-166.

403.182 Local pollution control programs.— (1) Each county and municipality or any combination thereof may establish and administer a local pollution control program if it complies with this act. Local pollution control programs in existence on the effective date of this act shall not be ousted of jurisdiction if such local program complies with this act. All pollution control programs, whether established before or after the effective date of this act, must:

(a) Be approved by the department as adequate to meet the requirements of this act and any applicable rules and regulations pursuant

(b) Provide by ordinance, regulation, or local law for requirements compatible with, cr stricter or more extensive than those imposed by this act and regulations issued thereunder.

(c) Provide for the enforcement of such requirements by appropriate administrative

and judicial process.

(d) Provide for administrative organiza-tion, staff, financial and other resources necessary to effectively and efficiently carry out its

program.

- The department shall have the exclu-(2)sive authority and power to require and issue permits; provided, however, that the department may delegate its power and authority to lecal pollution control organizations if the department finds it necessary or desirable to
- (3)If the department finds that the location, character or extent of particular concentrations of population, contaminant sources, the geographic, topographic or meteorological considerations, or any combinations thereof, are such as to make impracticable the maintenance of appropriate levels of air and water quality without an areawide pollution contro! program, the department may determine the boundaries within which such program is necessary and require it as the only acceptable alternative to direct state administration.

(4)(a). If the department has reason to believe that a pollution control program in force pursuant to this section is inadequate to prevent and control pollution in the jurisdiction to which such program relates, or that such program is being administered in a manner inconsistent with the requirements of this act, the department shall, on due notice, conduct

a hearing on the matter.

(b) li, after such hearing, the department determines that such program is inadequate to prevent and control pollution in the municipality, county, or municipalities or countles to which such program relates, or that such program is not accomplishing the purposes of this act, it shall require that necessary corrective measures be taken within a reasonable period

of time, not to exceed ninety days.

(c) If the municipality, county, or municipalitics or counties fail to take such necessary corrective action within the time required, the department shall administer within such municipality, county, or municipalities or counties all of the regulatory provisions of this act. Such pollution control program shall supersede all municipal or county pollution laws, regulations, ordinances and requirements in the aflected jurisdiction.

trol of a particular class of contaminant source because of its complexity or magnitude is beyoud the reasonable capability of the local pollution control authorities or may be more efficiently and economically performed at the state level, it may assume and retain jurisdiction over that class of contaminant source. Classifications pursuant to this paragraph may be either on the basis of the nature of the sources involved or on the basis of their reistionship to the size of the communities in which they are located.

(5) Any municipality or county in which the department administers its pollution control program pursuant to subsection (4) of this section may with the approval of the department establish or resume a municipal or county pollution control program which meets the requirements of subsection (1) of this sec-

(6) In exercising its powers, duties and functions the department of air and water pollution control shall have no jurisdiction over local acts of a stricter or more stringent nature. Tistory.-118, ch. 67-618; \$125, 35, ch. 66-102.

403.1821 Water pollution control and sewego treatment.—Sections 403,1821-403.1833 shall be known and cited as "the Florida water pollution control and sewage treatment plant grant act of 1970."

Dictory.-- 21. cb. 70-231.

403.1822 Came: definitions.—As used

§§403.1821-403.1883:

(1) "Local governmental agencies" refers to ony municipality, county, district, or authority, or any agency thereof, or a combination of two or more of the foregoing, acting jointly in connection with an eligible project, having jurisdiction over disposal of sowage, industrial wastes, or other wastes.

*(2) ["Department" refers to the department of air and water pollution control.]
(3) "Grants," "grant," "state grants," or "state grant" refer to disbursements from the state water pollution control trust fund pur-cuant to §403.1825.

Printer-12, ch. 70-111; 11, ch. 76-412.
*Note:-In order to comply with 11, ch. 78-403 the editors have substituted a definition of the least "Department" for the term "Terest." This definition will be included in a subsequent towner's bill.

493.1620 Department of air and water pollution control to administer; develop rules and

regulation.—The department shall:

(1) Fromulgate rules and regulations to carry out the purposes of §§403.1821-403:1833.

(2) Administer and control all funds approprinted to or received by the department for the purposes of §§403.1821-403.1833.

Managery - 10, edt. To-1911 11, edt. 90-410.

409,1321 Establish fund.—A trust fund to be known as the state water polintion control trust fund is established in the state treasury to be used for state grants to local governmental agencies for the construction or reconstruction of sewage treatment facilities. All funds received by the department to carry out the purposes of \$\$403.1821-402.1833 shall be deposited in this fund.

Distory.--!4. ch. 70-251; \$1. ch. 70-459.

403.1823 Grant payments.—Warmats for the payment of grants to local governmental agencies or increments thereof from the water pollution control trust fund shall be issued by the state comptroller upon certification to him by the department that such payments are due and payable under the department's published rules and regulations.

403.1826 Grants, requirements for eligi-

bility.—
(1) Grants shall be made under §§403.1821-403.1833 only for projects eligible for federal grants under Public Law 84-660, as amended,

or other applicable federal law.

(2) No grant shall be made for any sewage treatment facility unless such facility and the plans and specifications therefor are approved by the department and such facility is constructed in accordance with a time schedule of the department, and subject to such requirements as the department shall impose. If the department requires that the facility be approved by the federal water quality administration, such grant shall be conditioned upon the local governmental agency complying with all of the requirements of said water pollution control administration.

(3) No grant shall be made until the local governmental agency has agreed to provide that part of the total cost of the facility which is in excess of the applicable state and federal

grants.

(4) The grant to each local governmental agency shall not exceed 25 percent of that portion of the project cost that is eligible for

a federal grant.

(5) Grants made under §\$403.1821-403.1833 shall be paid to the local governmental agency in partial payments similar to the time schedule that such payments are provided to the local governmental agency by the federal water quality administration.

(6) No grant shall be made unless the local governmental agency assures the department of the proper and efficient operation and maintenance of the sewage treatment facility after

construction.

(7) No grant shall be made unless the local governmental agency has filed properly executed forms and applications prescribed by

the department.

(8) Any local government agency receiving assistance under §§403.1821-403.1833 shall keep such records as the department shall prescribe, including records which fully disclose the amount and disposition by the recipient of the proceeds of such assistance, the total cost of the project or undertaking in connection with such assistance given or used, the amount of that portion of the cost of the project or undertaking supplied by other sources, and such other records as will facilitate an effective audit. The department and the auditor general or any of their duly authorized representatives shall have access, for the purpose of audit and examination, to any books, documents, papers, and records of the recipient that are pertinent to grants received under §\$403.1821-403.1833.

(9) Effective July 1, 1971, a grant shall not be made until the local governmental agency's governing body has adopted and submitted to the department a comprehensive longrange plan for the control of water pollution in the area within its jurisdiction, hereinafter referred to as the official plan. If more than one local governmental agency has authority to provide service for sewage treatment in the same area, the required plan may be submitted jointly by the local governmental agencies concerned or by one local governmental agency with the concurrence of the others.

The official plan shall:

(a) Provide for a timely construction of sewage treatment facilities which will prevent the discharge of untreated or inadequately treated sewage or other wastes as defined by this chapter into the waters of the

state.

- (b) Provide for adequate planning, zoning, population projections, and engineering and economic studies to delineate with all practicable precision those portions of the area which public sewerage systems may reasonably be expected to serve within ten years and within twenty years, and any areas in which the provision of such services is not reasonably foreseeable.
- (c) Be in compliance with the state pollution control plan required by Public Law 84-660, as amended, or other applicable federal law.

(d) Set forth a time schedule and proposed method of financing, construction, and operation of the water pollution control system.

(e) Be reviewed by the official planning agencies having jurisdiction within the local governmental agency, and by the regional planning agency, if any for consistency with programs of planning for the area and region, which reviews shall be transmitted to the department with the plan.

Mistery.- \$6, ch. 70-251; \$1, ch. 70-439.

403.1827 Planning grants.—The department

may administer grants to local governmental agencies to assist them in preparing official plans. Such planning grants shall be made from appropriations made by the legislature and from federal appropriations authorized by the Public Law 89-753 or other applicable federal law. However, the state grant shall not exceed 50 percent of the local governmental agencies contribution.

Eistory.-- 17, ch. 70-251; 11, ch. 76-439.

403.1828 Official plans, approval; technical assistance; cooperation.—

- (1) The department may approve the official plan as submitted or, if it finds the plan to be inconsistent with proper area or regional water pollution control, it may return the plan for appropriate modification. When more than one local governmental agency is involved in an official plan and the local governmental agencies are unable to agree upon an official plan which the department will approve, the department shall develop the necessary official plans.
- (2) The department may provide technical assistance to local governmental agencies in coordinating official plans.
- (3) The department shall cooperate with all appropriate federal, state, interstate, and local governmental agencies and with appropriate private organizations.

History .-- 18, ch. 70-251; 11, ch. 70-439.

403.1829 Funding of projects; priorities.—Eligible projects shall be funded in descending order of their priority as established by the department until the state water pollution control fund is exhausted. The priority list as established by the department of health and rehabilitative services as agent of the board for the fiscal year beginning July 1, 1969, is ratified and confirmed. If funds available for the last project so funded are less than the amount of the grant to which the project is entitled, the balance due on such grant shall be paid from receipts of the fund in the next succeeding fiscal year before any other projects are so funded.

Mistory.- \$9, ch. 70-251; \$1, ch. 70-439.

403.1830 State advances in anticipation of construction funds.-If federal funds have been approved for a project but are not available to the local governmental agency at the time of its scheduled construction of a sewage treatment facility, the department may advance to such local governmental agency, in addition to the state grant provided for in §403.1826, that sum of money which would equal the amount of the federal grant, provided the local governmental agency shall agree that any fedcral contribution thereafter made for the project shall be forwarded to the state as reimbursement for the funds expended under this section. Prior to advancing the federal share, the department shall require the local governmental agency to agree to do all that is necessary to retain its eligibility to qualify

for the federal grant. The local governmental agency shall also agree to pay over to the department any installment of a grant received from the federal water pollution control administration on which the state has made an advance under this section.

Mistory.-- \$10, ch. 70-251; \$1, ch. 70-439.

403.1831 State advances in anticipation of contract plan funds.-If federal funds for contract plans and specifications for the construction of a sewage treatment facility are not available to the local governmental agency at the time of its scheduled planning, the department may advance to such local govern-mental agency a sum equal to 7 percent of the estimated construction cost, said amount to be used by the local governmental agency for the purpose of preparing contract plans and specifications. Any remaining balance of the 7 percent advanced under this section shall be applied to the cost of construction of the facility. The funds advanced to the local governmental agency under this section shall be considered a part of the total amount of the state grant provided for in §403.1826. Prior to advancing funds under this section, the department shall approve an official plan as provided in §403.1826(9).

History .- \$11, ch. 70-251; \$1, ch. 70-439.

403.1832 Department to accept federal aid. -The department is designated as the administrative agency of the state to apply for and accept any funds or other aid and to cooperate and enter into contracts and agreements with the federal government relating to the planning, developing, maintaining, and enforcing of the program to provide clean water and pollution abatement of the waters of the state or to any other related purpose which the Congress of the United States has authorized or may authorize. The department is authorized in the name of the state to make such applications, sign such documents, give such assurances, and do such other things as are necessary to obtain such aid from or cooperate with the United States government or any agency thereof. The department may consent to enter into contracts and agreements and cooperate with any other state agency, local governmental agency, person, or other state when it is necessary to carry out the provisions of §§403.1821-403.1833.

History.-- \$12, ch. 70-231; \$1, ch. 70-439.

403.1833 Appropriations; state water pollution control fund.—There is hereby appropriated to the state water pollution control trust fund funds received by the state under the reimbursement provisions of §8C of Public Law 84-660, as amended.

Elstory.-\$13, ch. 70-251.

*403.1834 State bonds to finance facilities.—
(1) The issuance of state bonds to finance the construction of air and water pollution control and abatement and solid waste disposal facilities, payable primarily from the

pledged revenues provided for by §14, Art. VII of the state constitution or from such pledged revenues and the full faith and credit of any county, municipality, district, authority, or any agency thereof, and pledging the full faith and credit of the state as additional security, is authorized, subject and pursuant to the provisions of §14, Art. VII of the state constitu-tion, the provisions of the state bond act, §§215.57-215.83, as amended, and the provisions of this section.

(2) The state board of administration is designated as the state fiscal agency to make the determinations required by §14, Art. VII of the state constitution in connection with

the issuance of such bonds.

(3) The amount of the state bonds to be issued shall be determined by the division of bond finance of the department of general services. However, the total principal amount issued shall not exceed one hundred million

dollars in any state fiscal year.

(4) The facilities to be financed with the proceeds of such state bonds shall be determined and approved by the department of air and water pollution control, and may be constructed, acquired, maintained, and operated by any county, municipality, district, or authority, or any agency thereof, or by said de-

partment.

(5) The department of air and water pollution control and the division of bond finance of the department of general services are hereby authorized to enter into lease-purchase agreements between such departments or to enter into lease-purchase agreements or loan agreements between either of such departments and any county, municipality, district, or authority, or any agency thereof, for such periods and under such other terms and conditions as may be mutually agreed upon by the parties thereto in order to carry out the purposes of §14. Art. VII of the state constitution, and this section.

(6) The department of air and water pollution control shall have power to fix, establish, and collect fees, rentals, or other charges for the use or benefit of said facilities, or may delegate such power to any county, municipality, district, authority, or any agency thereof under such terms and conditions and for such periods as may be mutually agreed upon.

(7) It is found and declared that said facilities will constitute a public governmental purpose necessary for the health and welfare of all the inhabitants of the state, and none of said facilities or said state bonds or the interest thereon shall ever be subject to taxation by the state or any political subdivision or agency thereof.

of agency thereof.

Mistory...\$41-7. ch. 70-270; \$1, ch. 70-439.

Note...This section shall be effective immediately upon ratification by the electors of the state of said amendment to \$14, Art. VII of the state constitution. If the amendment submitted to the electors adding \$14 is rejected, this section shall be null and void.

403.191 Construction in relation to other law.-

(1) It is the purpose of this act to provide additional and cumulative remedies to prevent, abate, and control the pollution of the air and waters of the state. Nothing contained herein shall be construed to abridge or alter rights of action or remedies in equity under the common law or statutory law, criminal or civil, nor shall any provisions of this act, or any act done by virtue thereof, be construed as estopping the state or any municipality, or person

affected by air or water pollution, in the exercise of their rights in equity or under the common law or statutory law to suppress nuisances or to abate pollution.

(2) No civil or criminal remedy for any wrongful action which is a violation of any rule or regulation of the department shall be excluded or impaired by the provisions of this

chapter.

(3) This act shall limit and restrict the application of chapter 24952, Laws of Florida, Acts of 1947, to any person operating any industrial plant that has located in the State of Florida in reliance thereon and exercised rights and powers granted thereby on and before the effective date of this act; provided such person shall henceforth in the exercise of such rights and powers install and use treatment works or control measures generally equivalent to those installed and used by other similar industrial plants pursuant to the requirements of the department.

History,-120, ch. 67-436; \$\$26, 35, ch. 69-106.

403.201 Variances .--

Upon application the department in its discretion may grant a variance from the provisions of this act or the rules and regulations adopted pursuant hereto. Variances and renewals thereof may be granted for any one of the following reasons:

(a) There is no practicable means known or available for the adequate control of the

pollution involved.

- (b) Compliance with the particular requirement or requirements from which a variance is sought will necessitate the taking of measures which, because of their extent or cost, must be spread over a considerable period of time. A variance granted for this reason shall prescribe a timetable for the taking of the measures required.
- (c) To relieve or prevent hardship of a kind other than those provided for in paragraphs (a) and (b) above. Variances and renewals thereof granted under authority of this paragraph shall each be limited to a period of twenty-four menths.
- (2) The department or its duly designated hearing officer shall hold a hearing on each application for a variance. The hearing procedures of §403.051 shall apply at such hear-

The department may prescribe such time limits and other conditions to the granting of a variance as it shall deem appropriate.

Mistory.-\$21, ch. 67-436; \$\$26, 35, ch. 69-106.

403.212 Regulations validated.—Any regulations adopted or orders issued by the Florida Air Pollution Control Commission and effective in any air pollution control district on the effective date of this act and rules, regulations and orders of the State Board of Health relating to air or water quality or pollution, are hereby validated as though adopted pursuant to the provisions of this chapter, and shall con-

Maue in effect and be enforced until repealed by the department.

Editory.-- 122, ch. 67-438; 1126, 35, ch. 69-106.

403.221 Pending proceedings.—No legal proceedings shall be abated because of any transfers made in this section, but the appropriate party exercising like authority or performing like duties or functions shall be substituted in said proceedings.

Mistory .- 123, ch. 67-438.

403.231 Department of legal affairs to represent the state.-The department of legal affairs shall represent the state and its agencies as legal advisor in carrying out the provisions of this act.

Elstery.- \$24, ch. 67-436; \$411, 35, ch. 69-106.

403.251 Safety clause.—The legislature hereby finds, determines, and declares that this act is necessary for the immediate preservation of the public peace, health and safety. Fistory.-127, ch. 67-436.

403.261 Provisions specifying jurisdiction repealed .-- All rule-making jurisdiction over air and water pollution matters held by other agencies within the state on September 1, 1967, is hereby repealed including, but without limitation, such jurisdiction held by the Florida State Board of Health, the Game and Fresh Water Fish Commission, the State Board of Conservation and the several water management districts within the state. Mintory.-- \$1, ch. 67-436.

403.271 Aquatic plants; permits; penal-Ster ...

(1) No person shall import into the state any aquatic plant or seeds thereof of a species not native to the state without having first obtained a permit from the department.

(2) No person shall knowingly transport or transfer aquatic plants, whether indigenous or a species not native to the state, between bodies of water within the state without having first obtained a permit from the department.

No person shall place or cause to be placed in the waters of the state or to cultivate or cause to propagate in the waters of the state any aquatic plant without first having obtained a permit from the department.

(4) The department is authorized to issue such permits only after the following condi-

dons have been met:

- (a) The department of agriculture and con-AUKAGE services, the game and fresh water fish commission, and the department of air and water pollution control issue prior approval of such permit.
- (b) An appropriate agency, such as an equatic vegetation laboratory, issues a memerandum certifying that the importation, transcortation, or cultivation of such species poses no danger to the waters, fish, reptiles, or ecology of the state.
- (5) The department of air and water pollution control, the department of agriculture and consumer services, and the game and fresh water fish commission shall conduct investigations of such species prior to issuance or denial of a permit for importation, transport, or transfer of such species in the waters of the state. Such investigations and the issuance of such permits shall be subject to the criteria established by the department of natural re-SOHICES.

To insure due process to all parties affected, the department shall follow the procedures of parts II and III of chapter 120 relating to hearings and review.

(7) The department shall publicize the provisions of this section on road signs throughout

the state.

(8)(a)Any person violating the provisions of this section is guilty of a misdemeanor and upon conviction shall be punished by a fine of not less than \$100 nor more than \$1,000 or by imprisonment not exceeding 6 months or by both such fine and imprisonment.

(b) All law enforcement officers of the state and its agencies with power to make arrests for violations of state law shall enforce

the provisions of this section.

Mistory,---11, ch. 69-158; 1114, 26, 35, ch. 69-106; 14, ch. 70-203; 11, ch. 70-439.

403.281 Definitions; weather modification law.—As used in this chapter relating to weather modification:

*(1) ["Department" means the department

of air and water pollution control.]
(2) "Person" includes any public or private corporation.

History...\$1, ch. 57-128; \$\$26, 25, ch. 69-106.

*Note...In order to conform to \$26, ch. 69-106 the editors have substituted a definition of the term "department" for the term "board." The section will be appropriately amended by a subsequent reviser's bill.

Note...Formerly \$373.251.

403.291 Purpose of weather modification law.—The purpose of this law is to promote the public safety and welfare by providing for the licensing, regulation and control of interference by artificial means with the natural precipitation of rain, snow, hail, moisture or water in any form contained in the atmosphere.

Mistory.--\$2, ch. 57-128. Note.--Formerly \$373.271

403.301 Artificial weather modification operation; license required.—No person without securing a license from the department, shall cause or attempt to cause by artificial means condensation or precipitation of rain, snow, hail, moisture or water in any form contained in the atmosphere, or shall prevent or attempt to prevent by artificial means the natural condensation or precipitation of rain, snow, hail, moisture or water in any form contained in the atmosphere.

History.—§3, ch. 57-128; §\$20, 35, ch. 69-106. Note.—Formerly §373.281.

403.311 Application for licensing; fee.-

- (1) Any person desiring to do or perform any of the acts specified in §403.301 may file with the department an application for a license on a form to be supplied by the department for such purpose setting forth all of the following:
- (a) The name and post office address of the applicant.
- (b) The education, experience and qualifications of the applicant, or if the applicant is not an individual, the education, experience

and qualifications of the persons who will be in control and in charge of the operation of the

applicant.

(c) The name and post office address of the person on whose behalf the weather modification operation is to be conducted if other than the applicant.

(d) The nature and object of the weather modification operation which the applicant proposes to conduct, including a general descrip-

tion of such operation.

(e) The method and type of equipment and the type and composition of materials that the applicant proposes to use.

(f) Such other pertinent information as the

department may require.

(2) Each application shall be accompanied by a filing fee in the sum of one hundred dollars and proof of financial responsibility as required by §403.321.

Mintery. 34, ch. 57-128; \$\$26, 35, ch. 89-108. Note, Formerly \$373.291.

403.321 Proof of financial responsibility.— (1) No license shall be issued to any person

until he has filed with the department proof of ability to respond in damages for liability on account of accidents arising out of the weather modification operations to be conducted by him in the amount of ten thousand dollars because of bodily injury to or death of one person resulting from any one incident, and subject to said limit for one person, in the amount of one hundred thousand dollars because of bodily injury to or death of two or more persons resulting from any one incident, and in the amount of one hundred thousand dollars because of injury to or destruction of property of others resulting from any one incident.

(2) Proof of financial responsibility may be given by filing with the department a certificate of insurance or a bond in the required

amount.

Mistory.—\$5, ch. 57-128; \$\$26, 35, ch. 69-106. Note.—Formerly \$373,391.

403.331 Issuance of license; suspension or revocation; renewal.-

(1) The department shall issue a license to

- each applicant who:
 (a) By education, skill and experience appears to be qualified to undertake the weather modification operation proposed in his applica-
- (b) File proof of his financial responsibility as required by §403.321.

(c) Pays filing fee required in §403.311.

Each such license shall entitle the licensee to conduct the operation described in the application for the calendar year for which the license is issued unless the license is sooner revoked or suspended. The conducting of any weather modification operation or the use of any equipment or materials other than those described in the application shall be cause for revocation or suspension of the license.

(3) The license may be renewed annually

by payment of a filing fee in the sum of fifty dollars.

History.—§6, ch. 57-128; §526, 35, ch. 69-106. Note.—Formerly §373.311.

403.341 Filing and publication of notice of intention to operate; limitation on area and time.—Prior to undertaking any operation authorized by the license, the licensee shall file with the department and cause to be published a notice of intention. The licensee shall then confine his activities substantially within the time and area limits set forth in the notice of intention.

Mistery.—§7, ch. 57-128; §\$26, 35, ch. 69-106. Note.—Formerly §373.321.

403.351 Contents of notice of intention.— The notice of intention shall set forth all of the following:

(1) The name and post office address of

the licensee.

(2) The name and post office address of the persons on whose behalf the weather modification operation is to be conducted if other than the licensee.

(3) The nature and object of the weather modification operation which licensee proposes to conduct, including a general description of

such operation.

(4) The method and type of equipment and the type and composition of the materials the

licensee proposes to use.

(5) The area in which and the approximate time during which the operation will be conducted.

The area which will be affected by the operation as nearly as the same may be determined in advance.

History,-\$8, ch. 57-128. Note.-Formerly \$373.331.

403.361 Publication of notice of intention.— The licensee shall cause the notice of intention to be published at least once a week for two consecutive weeks in a newspaper having general circulation and published within any county wherein the operation is to be conducted and in which the affected area is located, or if the operation is to be conducted in more than one county or if the affected area is located in more than one county or is located in a county other than the one in which the operation is to be conducted, then such notice shall be published in like manner in a newspaper having a general circulation and published within each of such counties. In case there is no newspaper published within the appropriate county, publication shall be made in a newspaper having a general circulation within the county.

History.—\$9, ch. 57-128. Note.—Formerly \$373.341.

403.371 Proof of publication.—Proof of publication shall be filed by the licensee with the department fifteen days from the date of the last publication of notice. Proof of publication shall be by copy of the notice as published, attached

to and made a part of the affidavit of the publisher or foreman of the newspaper publishing the notice.

History.-\$10, ch. 57-128; \$\$26, 35, ch. 69-106. Note.-Formerly \$373.351.

- 403.381 Record and reports of operations .-(1) Each licensee shall keep and maintain a record of all operations conducted by him pursuant to his license showing the method employed, the type and composition of materials used, the times and places of operation, the name and post office address of each person participating or assisting in the operation other than licensee and such other information as may be required by the department and shall report the same to the department at such times as it may require.
- (2) The records of the department and the reports of all licensees shall be available for public examination.

Mistery.--\$11, ch. 57-128; \$\$26, 35, ch. 69-106. Wete.-Formerly \$373.361.

403.391 Emergency licenses.—Notwithstanding any provisions of this act to the contrary. the department may grant a license permitting a weather modification operation without compliance by the licensee with the provisions of \$\$403.351-403.371, and without publication of notice of intention as required by \$403.341 if the operation appears to the department to be necessary or desirable in aid of the extinguishment of fire, dispersal of fog or other emergency.

Elistory.--\$12, ch. 57-128; \$\$26, 35, ch. 69-108. Note.--Formerly \$373,371.

403.401 Suspension or revocation of license;

appeal.-(1) Any license may be revoked or suspended if the department finds, after due notice to the licensee and a hearing therein, that the licensee has failed or refused to comply

with any of the provisions of this act.

(2) Any licensee may apply to the circuit court for the county of Leon to review any order of the department within the time provided by the Florida appellate rules. The review shall be by certiorari in the manner prescribed by the Florida appellate rules.

(3) Either the department or the licensee may appeal from the order or decree of the circuit court to the appropriate district court of appeal in the same manner appeals may be

taken in suits in equity.
Mistory.—\$\text{613}, \text{ch. 57-128}; \text{21}, \text{ch. 63-512}; \text{\$\frac{1}{2}\text{63}}, \text{35}, \text{ch. 69-106}.

Note.—Formerly \text{\\$373.381}.

403.411 Penalty.—Any person conducting a weather modification operation without first having procured a license, or who shall make a false statement in his application for license, or who shall fail to file any report or reports as required by this act, or who shall conduct any weather modification operation after revocation or suspension of his license, or who shall violate any other provision of this act, shall be guilty of a misdemeanor and upon conviction therefor shall be fined not more than \$1,000, or imprisoned not more than 60 days, or both; and if a corporation, shall be fined not more than \$1,000. Each such violation shall be a separate offense.

History.—§14, ch. 57-128. Note.—Formerly §373.391.

Chapter 17-4: PERMITS
Florida Adminstrative Code

RULES

OF THE

DEPARTMENT OF AIR AND WATER POLLUTION CONTROL

CHAPTER 17-4

PERMITS

17-4.01 Scope of Rule

17-4.02 Definitions

17-4.03 Permits Required; Not Required

17-4.04 Construction Permit

17-4.05 Operation Permit For New Sources

17-4.06 Operaion Permit For Existing Sources

17-4.07 Standards For Issuing Permits; Revocations; Board Review

17-4.08 Execution of Permits

17-4.09 Display

17-4.10 Reports

17-4.11 Effective Date

17-4.12 Transfer of Permits

17-4.13 Plant Operation - Problems

17-4.01 Scope of Rule.

Pursuant to Chaper 403, Florida Statutes, this rule is adopted whereby a permit is required for the operation, construction, or expansion of any installation that may be a source of air or water pollution. It provides for the issuance and revocation of such permits.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.

17-4.02 Definitions.

17-4.02 Definitions.

(1) "Department" is the Department of Air and Water Pollution Control of the State of Florida.

- (2) "Construction Permit" is legal authorization granted by the Department to construct or make alterations which increase or may increase any source of pollution at any specific location.
- (3) "Operation Permit" is legal authorization granted by the Department to operate any source of pollution
- (4) "Director" is the Executive Director of the Department.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-76.

17-4.03 Permits Required: Not Required.

- (1) The following permits shall be issued by the Department as required and shall be applicable to sources such as domestic sewage, industrial wastes, contaminant emissions to the atmosphere, solid wastes disposed by incineration or mechanical means, and discharge of any materials to drainage wells.
 - (a) Construction Permits
 - (b) Operation Permits For New Sources
 - (c) Operation Permits For Existing Sources
 - (2) The following are exempted from this rule:

(a) Septic tank drainfield systems.

(b) Domestic sewage treatment plants of less than 3,000 gallons per day average daily flow.

(c) Home heating and/or comfort heating equipment with a gross maximum heat output less than one million BTU per hour.

(d) Comfort air conditioning or comfort

ventilating systems.

(e) Internal combustion engines, boats, aircraft and vehicles used for transportation of passengers or freight. Such sources shall not be required to obtain an operation permit, but shall conform with rules with respect to emission of black smoke or of equivalent opacity.

(f) Incinerators constructed, installed, or used in one-or two-family dwellings or in multi-occupied dwellings containing six (6) or fewer family units, one

of which is owner-occupied.

(g) The following equipment:

(1) Cold storage refrigeration equipment.

(2) Vaccum pumps in laboratory operations.
 (3) Water cooling towers and water cooling ponds not used for evaporative cooling of process water or not used for evaporative cooling of water

from barometric jets or from barometric condensers.

(4) Equipment used for steam cleaning.

(5) Belt or drum sanders having a total sanding

(5) Beit or drum sanders having a total sanding surface of five square feet or less per sander, and other equipment used exclusively on wood or plastics or their products having a density of 20 pounds per cubic foot or more.

(6) Equipment used exclusively for space

heating, other than boilers.

(7) Smoke houses used exclusively for smoking

food products.

(8) Backery ovens and confection cookers where the products are edible and intended for human consumption.

(9) Laboratory equipment used exclusively for

chemical or physical analyses.

(10) Brazing, soldering or welding equipment.
(11) Laundry driers, extractors or tumblers for fabrics cleaned with only water solutions of bleach or

detergents.

(h) Vaccum cleaning systems used exclusively for industrial, commercial or residential housekeeping

purposes.

(i) Structural changes which cannot change the quality, nature or quantity of air or water contaminant emissions or discharges.

(j) Any article, machine, equipment, contrivance, operation, process or activity which the Department shall determine does not cause the issuance of air or water contaminants in sufficient quantity, with respect to its character, quality or content, and the circumstances surrounding its location, use and operation, as to contribute significantly to the pollution problems within the State, so that the regulation thereof is not reasonably justified, and which does not in fact cause the issuance of contaminants in violation of law or of these rules and regulations. Such determination shall be made in writing and filed by the Department as a public record. Such determination may be revoked at

any time. The Department shall notify the Air and Water Pollution Control Board, at each regularly scheduled meeting, in writing of each such determination or revocation of a previous determination, with the reasons therefor in each instance.

These exemptions do not apply to any article, machine, equipment, contrivance or their exhaust systems, the discharge from which contains air or water-borne radioactive material in concentrations above the natural radioactive background concentration respectively in air or water.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.

17-4.04 Construction Permit.

 Procedure to obtain permit.
 To secure a construction permit it shall be necessary to submit the following, in quadruplicate,

on forms and in the manner prescribed by the Department:

(a) A notice of intent by the owner(s) or his

(their) authorized agent.

(b) A completed application form furnished by the Department. Applications covering domestic waste facilities should be made to the Department through the Division of Health of the Department of Health and Rehabilitative Services.

- (c) An engineering report covering plant description and operations, types and quantities of all waste material generated whether liquid, gaseous or solid, and proposed waste control facilities, the treatment objectives and the design criteria on which the control facilities are based, and other information deemed relevant. Design criteria shall be based on the results of laboratory and pilot-plant scale studies whenever such studies are warranted. The design efficiencies of the proposed waste treatment facilities and the quantities and types of pollutants in the treated effluents or emissions shall be indicated. Work of this nature shall be subject to the requirements of Chapter 471, Florida Statutes. Where confidential records are involved, the Director is authorized to limit full disclosure after personal discussion with the applicant.
- (d) Owners written guarantee to meet the design criteria as accepted by the Department and to abide by Chapter 403, Florida Statutes and the rules and regulations of the Department as to the quantities and types of materials to be discharged from the plant. The owner may be required to post an appropriate bond to guarantee compliance with such conditions in instances where owner's financial resources are inadequate or unavailable for underwriting such guarantee.

(2) The construction permit may contain an expiration date as determined by the Director.

(3) When the Department issues a permit to construct, the recipient of said permit shall be allowed a period of time, specified in the permit to construct for operating and testing to determine compliance with Chapter 403, Florida Statutes, Chapter 10D-12, Florida Administrative Code and other rules and regulations of the Department. The Department may require such tests and evaluations on the treatment facilities to be accomplished by applicant at his expense.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 4-3-70.

17-4.05 Operation Permit For New Sources

(1) Procedure to obtain permit.

To secure an operation permit for new sources it shall be necessary to submit the following on forms and in the manner prescribed by the Department.

(a) Test results, as specified in 17-4.04 (3).

(b) Certification of construction completion by Permittee noting any permit deviations,

(c) Final construction costs of pollution

control facilities.

- (2) Permit Guarantees An operation permit shall refer to the approved guarantees for the plant, identifying such guarantees by date, name and number, a copy of which shall, at the option of the owner, be attached to the permit or shall be permanently retained in the office of the owner and shall be made available for inspection upon request by an authorized representative of the Department. General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.
- 17-4.06 Operation Permit For Existing Sources (1) Owners of all existing sources of air and/or water pollution are allowed up to but not more than twelve (12) months time, from the effective date of this Chapter, during which they shall evaluate, test, modify or improve their existing pollution control facilities in regard to compliance with Chapter 403, Florida Statutes, Chapter 10D-12, Florida Administrative Code, and other rules and regulations of the Department, Prior to the end of the said period they shall make application, on form furnished by the Department, for the issuance of an operation permit.

If, after the review of an appliction for operation permit, the Department determines that the existing facilities do not comply with Chapter 403, Florida Statutes, Chapter 10D-12, Florida Administrative Code, and the rules and regulations of the Department, a temporary operation permit may be issued by the Department, stating the conditions under which the operations are permitted.

(2) Temporary Operation Permit.

A temporary operation permit may be issued by the Department when time is required for corrections in the method of waste treatment and/or disposal, to comply fully with Chapter 403, Florida Statutes, Chapter 10D-12, Florida Administrative Code, and other rules and regulations of the Department. The Director shall decide the duration of the temporary permit which may allow time for guidance study, corrections, testing and improvements in regard to the existing pollution control facilities.

(3) Existing State Permit.

Holders of valid operation permits issued by a state agency who have not received a superseding DAWPC operation permit within sixty days of effective date of this rule shall apply by letter within ninety (90) days of effective date of this rule for an operation permit under the provisions of this Chapter and shall be issued an operation permit in exchange for the previous permit.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History-New 3-4-70.

17-4.07 Standards For Issuing Permits; Revocations; Board Review

(1) Operation permits shall be effective until revoked or surrendered and shall be subject to the provisions of Chapter 403, Florida Statutes, Chapter 170C-10, Florida Administrative Code and other rules

and regulations of the Department.

(2) Failure to comply with the laws and rules and regulations of the Department will constitute ground for revocation of said permit until the person affected complies with the requirements of said laws. rules and regulations.

(3) Permits May Be Revoked When:

- (a) Chapter 403, Florida Statutes or rules and regulations of the Department or revisions thereof are violated.
- (b) Operation reports are not provided as indicated by Section 4.10.
- (c) Permit was obtained by misrepresentation of any material fact or by lack of full disclosure in the application.
- (4) Board Review An applicant who is denied a permit or a permit holder whose permit is revoked can, if desired, request a hearing within ten days of receipt of denial or revocation, before the Board.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.

17-4.08 Executions of Permits.

Permits shall be executed in triplicate, one copy to be given the applicant, one copy shall remain with the Department and third copy to be filed with the Department of Air and Water Pollution Control Regional Engineer.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.

17-4.09 Display.

All permits shall be prominently displayed on the premises.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.

17-4.10 Reports.

Owners of pollution sources, subject to the provisions of these rules shall provide operational data and control test records required to indicate operating efficiency of said works and transmit these records to the Department. General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.

17-4.11 Effective Date.

Provisions of this Chapter shall become effective as legally published by the Director. General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.

17-4.12 Transfer of Permits.

A permit is issued in the name of a person., Upon the sale or legal transfer of a permitted facility the new owner must apply by letter for a transfer of permit within thirty (30) days. General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 3-4-70.

17-4.13 Plant Operation — Problems.

In the event the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire, wind or by other cause, the permittee is to immediately notify this Department. Notification shall include pertinent information as to the cause, and what steps are being taken to correct the problem and prevent its recurrence and the owner's intent toward reconstruction of destroyed facilities where applicable.

General Authority 403.061 (7) FS. Law Implemented 403.061 (16) FS. History—New 4-3-70.

Chapter 17-5

OPEN BURNING AND FROST PROTECTION FIRES

RULES

OF THE

DEPARTMENT OF AIR AND WATER POLLUTION CONTROL

CHAPTER 17-5

OPEN BURNING AND FROST PROTECTION FIRES

17-5.01 Declaration and Intent

17-5.02 Definitions

17-5.03 Prohibitions

17-5.04 Limitations

17-5.05 Agricultural and Silvicultural Fires

17-5.06 Burning for Cold or Frost Protection

17-5.07 Land Clearing

17-5.08 Industrial, Commercial, Municipal and Research Open Burning

17-5.09 Open Burning Allowed

17-5.10 Effective Date

17-5.01 Declaration and Intent. The Department finds and declares that the open burning of materials outdoors and the use of outdoor heating devices result in or contribute to air pollution. The Department further finds that regulation of open burning and outdoor heating devices will reduce air pollution significantly.

It is the intent of the Department to require that open burning be conducted in a manner, under conditions, and within certain periods that will reduce or eliminate the deleterious and noisome effect of air pollution caused by open burning.

It is the intent of the Department to phase out, over a period of years, open burning of certain unapproved material and heating devices which are presently being used for crop protection against frost and freezing and to require that only materials and heating devices which emit a minimum of air pollutants be used.

The Department finds that certain fuels release less air pollution when burned than do other fuels. Therefore, the Department intends to approve fuels which contribute only a minimum of air pollution and allow their use for cold or frost protection and to phase out, over a period of years, all fuels which do not meet Department specifications.

General Authority 403.061(7) FS. Law Implemented 403.021, 403.031, 403.061 FS. History—New 7-1-71.

17-5.02 Definitions. The following words, phrases, or terms when used in this chapter shall, unless the content otherwise indicates, have the following meanings:

(1) "Air pollution" is the presence in the outdoor atmosphere of the state of any one or more substances or contaminants in quantities which are or may be potentially harmful or injurious to human health or welfare, animal or plant life, or property, or unreasonably interfere with the enjoyment of life or property, including outdoor recreation.
(2) "Department" is the Department of Air

and Water Pollution Control.

(3) "Open burning" means any outdoor fire or open combustion of material which produces or may produce air pollution.

(4) "Outdoor heating device" means any apparatus, machine, equipment, or other contrivance in which is burned any type of fuel capable of producing air pollution, used outdoors for the purpose of giving protection from cold or frost.

(5) "Land clearing operation" means the uprooting or clearing of vegetation in connection with construction for buildings and rights-of-way. mineral operations, control of weeds, or enhancement of property value, but does not include site preparation; i.e., fires for the growing, raising, or harvesting of crops, timber, or wildlife.

(6) "Approved fuel" shall mean fuel approved

by the Department to emit or release a minimum of

pollutants when burned.

(7) "Forced draft" is an adequate current of air, blown or forced by a fan or other mechanical means, which is directed or arranged in relation to the open burning in such a manner as to increase the temperature of the fire and to reduce or minimize the resultant pollution.

(8) "Excessive visible emissions" are air pollutants emitted in such quantity as to obscure an observer's view to a degree equal to or greater than Number two (or 40% opacity) on the Ringelmann Smoke Chart as published in the U.S. Bureau of

Mines Information Circular No. 7718.

(9) "Sunset" is official sunset as set forth by the U.S. Naval Observatory (tables are available at

National Weather Services offices).

General Authority 403.061(7) FS. Law Implement-403.021, 403.031, 403.061 FS. History—New 7-1-71.

17-5.03 Prohibitions.

(1) Any open burning not specifically allowed by this chapter is prohibited. No person shall ignite, cause to be ignited, permit to be ignited; suffer, allow, burn, conduct or maintain any prohibited open burning.

(2) No person shall use or operate any outdoor heating device or burn any unapproved fuel for cold or frost protection except as provided in this chapter. General Authority 403.061(7) FS. Law Implemented 403.021, 403.031, 403.061 FS. History—New 7-1-71.

17-5.04 Limitations. Nothing in this chapter may be construed to allow open burning which causes or constitutes a hazard to air traffic, which artificially reduces visibility on public roadways to less than 500 feet, or which violates other laws, rules, regulations, or ordinances.

General Authority 403.061(7) FS. Law Implemented 403.021, 403.031, 403.061 FS. History—New 7-1-71.

17-5.05 Agricultural and Silvicultural Fires.

(1) Open burning between the hours of 9:00 a.m. (standard time) and one hour before sunset (except fires for cold or frost protection) in connection with agricultural, silvicultural or forestry operations related to the growing, harvesting or maintenance of crops or in connection with wildlife management is allowed, provided that permission is secured from the Division of Forestry of the Department of Agriculture and Consumer Services prior to burning. The Division of Forestry may allow open burning at other times when there is reasonable assurance that atmospheric and meteorological conditions in the vicinity of the burning will allow good and proper diffusion and dispersement of air pollutants, and ready control of such fires within the designated boundaries.

(2) The Division of Forestry may, or at the request of the Department of Air and Water Pollution Control the Division of Forestry shall, suspend after reasonable notice any such permission whenever atmospheric or meteorological conditions change so that there is improper diffusion and dispersion of air pollutants which create a condition deleterious to health, safety, or general welfare, or which obscure

visibility of vehicular or air traffic.

(3) This section (17-5.05) shall become

effective October 1, 1971. General Authority 403.061(3), (4), (7), and (24), 403.081 FS. Law Implemented 403.021, 403.031, 403.061 FS. History—New 7-1-71.

17-5.06 Burning for Cold or Frost Protection.

(1) Open Burning, Fuels, Devices, Schedules. Open burning or the use of outdoor heating devices for frost or cold protection in connection with agricultural or citrus operations is allowed, provided the fuel and the heating device used have approval from the Department prior to use.

(a) Fuels for open burning for frost or cold protection will be allowed in accordance with the

following schedule:

 Until June 1972, all fuels shall be allowed.
 After June 1972, the burning of tires. rubber material, railroad cross ties, other creosoted lumber, refuse, wood, or vegetation shall be prohibited.

3. Until June 1974, oil in open pans is allowed, provided a No. 3 or better grade fuel oil is burned.

4. After June 1973, all fuels must have

approval of the Department.

(b) Use of outdoor heating devices for frost or cold protection is allowed in accordance with the following schedule:

1. Outdoor heating devices and open pans in existence on July 1, 1971, may continue to be used

until June 1974.

2. Any new outdoor heating device must have approval of the Department prior to use.

3. After June 1974, any outdoor heating

device must have approval prior to use.

- (2) List Required: Approved Fuels and Outdoor Heating Devices. The Department shall compile and maintain a list of approved fuels and outdoor heating devices. The list shall include conditions upon which approval was granted. The list shall be available to the public and may be published from time to time.
- (3) Approval: Fuels and Outdoor Heating Devices; Procedure; Requirements. Fuels and outdoor heating devices shall be approved in the following manner:

(a) Fuels for open burning:

- 1. Any person desiring to have a fuel approved may submit an application. The application shall contain the following information:
- A. Name, address, and telephone number of applicant;

B. Trade name or other designation of fuel;

C. Chemical composition of fuel;

D. The composition and quality of air contaminants given off per unit of fuel; and,

E. The expected use of the fuel.

2. The Department may require that samples be made by the applicant and may require that samples of the fuel be submitted for testing to the Department or the Division of Standards of the Department of Agriculture and Consumer Services.

3. The Department shall not approve any fuel which emits excessive visible emissions when burned

in the proper manner.

4. The Department may approve a fuel on condition that it be used for certain specified purposes and in a certain specified manner.

(b) Outdoor heating devices:

1. Any person desiring to have an outdoor heating device approved may submit an application. The application shall contain the following information:

A. Name, address, and telephone number of

applicant;

B. Trade name or other designation of the device:

C. Brief description of the device;

D. Type of fuel that is used in the device; and, E. The composition and quantity of air contaminants given off by the device when in operation.

2. The Department may require that a test of the performance of a representative device be

conducted by the applicant.

3. The Department shall not approve any outdoor heating device which emits more than five-tenths gram per minute of unconsumed solid carbonaceous matter or particulate matter.

4. The Department may approve the device on specified conditions and may limit the approval to a

specified period of time.

(c) Any applicant who has been denied approval for a fuel or an outdoor heating device shall, upon request, be granted a public hearing. After the hearing, the Department shall affirm or modify the denial or set it aside and approve the fuel or device. General Authority 403.061(7) and (16) FS. Law Implemented 403.021, 403.031, 403.061 FS. History—New

17-5.07 Land Clearing.

- (1) Open burning of wooden material or vegetation generated by a land clearing operation (except for agricultural, silvicultural, or forestry operations) or the demolition of a structure is allowed provided one of the following alternatives is satisfied:
- (a) The open burning is fifty yards or more from any occupied building or public highway and is performed between 9:00 a.m. (standard time) and one hour before sunset;

(b) At other times when:1. The open burning is fifty yards or more from any occupied building or public highway and a

forced draft system is used; or,

2. The open burning is five-hundred yards or more from any occupied building or a public highway and the Department has given permission because of reasonable assurance that atmospheric and meteorological conditions in the vicinity of the

burning will allow good and proper diffusion and dispersement of air pollutants; or,

(c) The burning is conducted under the supervision of the Department of Transportation, a forced draft is used, and visibility on roadways is not artificially reduced to less than 500 feet.

(2) If the burning site is situated in a rural area or is adjacent to or near forest, grass, woods, wild lands or marshes, the Division of Forestry shall be notified and consulted prior to any burning.

(3) All open burning under this section shall be

conducted in the following manner:

- (a) The piles of materials to be burned shall be of such size that the burning will be completed within the designated time given in paragraph 17-5.07(1).
- (b) The moisture content and composition of the material to be burned shall be favorable to good burning which will minimize air pollution.
- (c) The starter fuel and materials to be ignited shall not emit excessive visible emissions when burned.

General Authority 403.061(7) FS. Law Implemented 403.021, 403.031, 403.061 FS. History-New 7-1-71.

17-5.08 Industrial, Commercial, Municipal, and

Research Open Burning.

(1) Open burning in connection with industrial, commercial, or municipal operations is prohibited, except when the open burning is the only feasible method of operation and prior approval is obtained from the Department, or when an emergency exists which requires immediate action to protect human health and safety.

(2) Open burning and the use of outdoor heating devices which are essential to a research project are allowed provided prior approval is

obtained from the Department.

(3) The application for approval under this section shall include the following:

(a) The name, address, and telephone number of the person submitting the application;

(b) The type of business or activity involved;

(c) A description of the proposed equipment and operating practices, the type, quantity, composition and amount of air contaminants to be released to the atmosphere;

- (d) The schedule of burning operations, if known;
- (e) The exact location of requested open burning;

(f) If applicable, reasons why no method o

than open burning is feasible; and,

(g) Evidence that the proposed open burning has been approved by the fire control authority which has jurisdiction.

(4) The Department shall approve such operations or research projects only on specified conditions which protect the ambient air from pollutants and contaminants to the greatest extent, and may limit the approval to a specified time.

General Authority 403.061(7) and (16) FS. Law

General Authority 403.061(7) and (16) FS. Law Implemented 403.021, 403.031, 403.061 FS. History—New 7-1-71.

17-5.09 Open Burning Allowed.

(1) Open burning to reduce non-putrescible waste generated on occupied residential premises of not more than four family units is allowed; provided a municipal, county, or commercial refuse collection service is not available on a systematic basis, or at least once a week; further provided that the burning does not produce smoke, soot, odors, visible emissions, heat, flame, radiation, or other conditions to such a degree as to create a nuisance.

(2) A camp fire or other fire will be allowed that is used solely for recreational purposes, for ceremonial occasions, for outdoor noncommercial preparation of food, or on cold days for warming of outdoor workers, as long as excessive visible emissions

are not emitted.

(3) Open burning for the flaring of waste gases is allowed for reasons of safety, as long as excessive visible emissions are not emitted.

(4) Open burning is allowed for the instruction and training of organized fire fighters or indust employees under the supervision of the appropriate public fire control official.

General Authority 403.061(7) FS. Law Implemented 403.021, 403.031, 403.061 FS. History-New 7-1-71.

17-5.10 Effective Date. This chapter, unless otherwise specified, shall become effective July 1, 1971.

General Authority 120.041(6) FS. Law Implemented 120.041(6) FS. History—New 7-1-71.

APPENDIX C

EMISSION INVENTORY SUMMARY

Northwest Florida Interstate AQCR

EMISSION INVENTORY SUMMARY (BY COUNTY)

| POLLUTANT: Particulate | 1 | REGION: No | orthwest | | | | | | | |
|---|------|------------|----------|--------|--------|---------|----------|-----------|--------|-----------|
| I. Fuel Combustion | Bay | Calhoun | Escambia | Gu1f | Holmes | Jackson | Okaloosa | SantaRosa | Walton | Masbingto |
| A. Residential and Institutional Fue 1. Coal or Coke a. Area | 1 | | | | | | | : | | |
| b. Point 2. Distillate Of | , | | | | | | No. | | | |
| a. Area b. Point | 28.3 | 2.33 | 54.8 | 3.31 | 2.93 | 11.11 | 24.87 | 10.0 | 4.51 | 3.25 |
| 3. Residual Oil a. Area | 2.4 | 0.25 | 6.7 | 0.33 | 0.35 | 1.12 | 2.87 | 1.23 | 0.5 | 0.37 |
| b. Point 4. Natural Gas* | | | | | | | | | | 6.19 |
| a. Area b. Point | 40.7 | 4.12 | 111.0 | - 5.46 | 4.35 | 18.62 | 47.7 | 20.7 | 8.7 | |
| 5. Combination a. Area b. Point | | | | | ru ru | | | | | |
| B. Commercial 1. Distillate Oi | .1 | | | | | | | | | |
| a. Area b. Point | 3.0 | 0.13 | 0.09 | 0.25 | 0.08 | 0.77 | 0.79 | 0.13 | 0.13 | 0.12 |
| 2. Residual Cil a. Area | | | | | | | | · · | | |
| b. Point C. Industrial Fuel | | | | | | | | | | |
| 1. Coal or Coke a. Area | | | | | | | | | | |
| b. Point2. Distillate Oi | 1 | | | | | · | | | | |
| a. Area b. Point 3. Residual Oil | | | | | | 7.1 | | | | |
| a. Area b. Point | | | | 38.8 | | | | | • | |
| 4. Natural Gas a. Area | | | | | | | | , | | |
| b. Point 5. Process Gas | | | 158.7 | | | | | | | |
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| | | | a. Area b. Point 7. Combination | | | 22.3 37.5 | | : | 4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | * | | | |
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| | II. | Pow A. B. | er Plants Coal Distillate Oil Residual Oil | 1800.0 | | | 0.42 | | 4815.0 | | | | |
| | | D. | Natural Gas | | | 470.6 | | | | | | | |
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| n i | | C. | Off-Highway Usage Aircraft | 440.9 | | 196.7 | | | | 1428.4 | | · | 1 |
| | | D. E. | | | | | | | | | | | |
| : | | Ē. | Gasoline Handling Total Transportation | 655.3 | 4 15.99 | 599.5 | 14.37 | 24.8 | 112.44 | 1602.23 | 75.9 | 51.45 | 20.51 |
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| | | | | | | | | | | | | | |

POLLUTANT: Particulate

VI Miscellaneous Area Sources
A. Forest Fires
B. Agricultural, Silvicultural
and Landelearing Burning
C. Grove Protection
D. Total Miscellaneous
II Grand Total
A. Area
B. Point

| - | REGION: | Northwest | | | and the second of | | | | | |
|-------------|---------------------|-----------------|---------------------|--------------------|-------------------|----------------|------------------|--------------------|----------------|------------------------|
| | Bay | Calhoun | Escambia | Gulf | Holmes_ | Jackson | Okaloosa | SantaRosa | Walton | Washing ton |
| 1,21 | 146.97 200.4 | 113.0 154.2 | 278.3 577.0 | 116.8 159.3 | 92.2 218.6 | 178.6 423.7 | 400.8 831.0 | 434.2 900.3 | 195.9 464.7 | 109.5 25 9.7 |
| | 347.37 | 267.2 | 355.3 | 276.1 | 310.8 | 602.3 | 1231.8 | 1334.5 | 660.6 | 360 2 |
| - 1 | 14623.62 | 329.42 | 18919.79 | 3697.54 | 347.11 | 5999.36 | 3011.76 | 1660.26 1444.36 | 732.59 | 415.74 |
| in the same | 1079.22 13544.40 | 302.02 27.40 | 1673.49 17246.30 | 3358:62 3358:92 | 343:81 3:30 | 5252:70 | 2935.06 76.70 | 1444,36 215.90 | 725.89 6.70 | 415.63 |

CILUTANT: Particulate

REGION: Northwest

Totals

/I Miscellaneous Area Sources
A. Forest Fires
B. Agricultural, Silvicultural and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous

(I Grand Total
A. Area
B. Point

REGION: Northwest

Totals

Totals

I Ootals

Forther Totals

I Ootal Miscellaneous

6255.17

10004.76

39732.42

EMISSION INVENTORY SUMMARY (BY COUNTY)

POLLUTANT: Sulfur Oxides

REGION: Northwest

| ı. | : Fine | 1 Combustion | Bay | Calhoun | Escambia | Gu1f | Holmes | Jackson | Okaloosa | SantaRosa | Walton | Washington |
|-----|--------|--|--|---------|----------|----------------|--------|---------|----------|-----------|--|------------|
| | Α. | Residential and Institutional Fuel | . , | | | resi i gre tië | Ara s | | | | gayeti oʻrdi ida masiyyaqarinda ida ilkinin. Aq asadga | |
| | | l. Coal or Coke a. Area b. Point | | `. | | | | | | | | |
| | ** | 2. Distillate Oil a. Area | 20.42 | 1.68 | 39.5 | 2.38 | 2.13 | 7.97 | 17.9 | 7.18 | 3.18 | 2.35 |
| | - | b. Point3. Residual Oil | 70 55 | 7.14 | 109.4 | 0.44 | 10.0 | 70.7 | 02.6 | 70. | 10.2 | 10.5 |
| | | a. Area b. Point 4. Natural Gas* | 70.55 | 7.14 | 192.4 | 9.46 | 10.0 | 32.3 | 82.6 | 35.4 | 15.1 | 10.7 |
| | • | a. Area b. Point | 1.29 | 0.13 | 3.5 | 0.17 | 0.15 | 0.59 | 1.51 | 0.65 | 0.27 | 0.20 |
| * * | | 5. Combination a. Area b. Point | ************************************** | | | | · | | | | | |
| | В. | Commercial 1. Distillate Oil | | n 06 | | 0.13 | | | | | | |
| | * | a. Area b. Point 2. Residual Oil | 1.47 | 0.06 | 0.04 | 0.12 | 0.04 | 0.37 | 0.38 | 0.06 | 0.06 | 0.06 |
| 3 | | a. Areab. Point | | | | | | | | | | |
| • | ¢. | Industrial Fuel 1. Coal or Coke | | • | • | | | | | | • | |
| • | | a. Areab. Point2. Distillate Oil | | | | | ē | | | | | |
| | | a. Area b. Point | | | | · | | | | | | |
| ٠ | | 3. Residual Oil a. Area b. Point | | | | 615 0 | • | | | | • | |
| | | 4. Natural Gas a. Area | | | 6.35 | 615.0 | | 113.9 | | • | | |
| | | b. Point \ 5. Process Gas | | | | | | | | | | |
| | | a. Area b. Point | | | • | | | | | | | |

^{*} Includes Commercial Uses

| 3 OZ | LUTANT: Sulfur Oxides | REGION: | Northwes | the state of the s | | | والمراجع والمعارض وال | | entre de la companya del la companya de la companya | | |
|-------|--|--|--|--|----------|-----------------|--|--|--|--|---|
| | | Bay | Calhoun | Escambia | Gulf | Holmes_ | Jackson | Okaloosa | SantaRosa | . Walton | Washingto |
| | 6. Wood or Bark | | | | | | | *************************************** | | . The second second | |
| | a. Area | | | | | | | | | • • | |
| | b. Point | | • 1 | | | | | | | | |
| | 7. Combination a. Area | | | 9.5 | 4 | , | | | | | |
| | a. Area b. Point | 8795.0 | | 9.3 | 12200.0 | | | 5.9 | 29.1 | | |
| | D. Total Fuel | 8888.73 | 9.01 | 251.29 | 12827.13 | 12.32 | 155,13 | 108.29 | | 18.6 | 13,3 |
| | Combustion | | - | | 1401/-15 | | | AVQ.42 | | 10.01 | 12.3 |
| II. | Power Plants | 1 | | - | | | | | | | |
| | A. Coal | 5400.0 | | | | | 3655.8 | | | | |
| | B. Cistillate Oil | | | | 1.2 | | | | | | |
| | C. Residual Oil | 1 | | | | | | | | F 2 2 | |
| • | D. Natural Gas | 1 | | 16861.5 | | | | | | | |
| | E. Combination | 5400.0 | ······································ | | | | | ······································ | | nepigenesitänen spilleriten den e. e. | |
| | F. Total Fower Plants | 7 A. AAA | gaves for material and statement of the second seco | 16861.5 | 1.2 | - | 3655.8 | and the same of the control of the same of | and the second s | · S. W. · · · · Salt Supposite St. Supposite | - |
| 444 | Process Emissions | | | | | | 34.1 | | | 1 A 12 - 2 FF 25 TF 1 | |
| | A. Chemical B. Food and Agriculture | | | | | | 34.1 | | 33.0 | | 1 |
| | C. Matallurgical | | | | | | | 1 (1) 1 (1) | | | |
| | D. Mineral | 12 7 | | 154.2 | 774 | | | | 9782.0 | | |
| | E. Wood | 2350:0 | | 134.6 | 1630.0 | * 27. * | 129.0 | | | | |
| | F. Petroleum Storage | | | | | | | | | | |
| Q | G. Fetrochemical Operations | Action of the second se | a apparateur mai apparateur men en den e | | | | a - end + 44 majoring day combigations | reference from and area and amount of the second | | | - Alexandria |
| . 2v. | H. Total Process Emissions | 2362.7 | | 154.2 | 1744.5 | | 163.1 | | 9815.0 | | |
| IV. | Solid Waste Disposal | | | | | | | | | | |
| | A. Incineration | 7 7 | | | | | | | | | |
| | .I. Area | 1.1 | | 3.9 | | | 0.4 | 1.6 | 0.3 | | |
| . 4 | 2. Point B. Open Burning | | | | | | | | | | |
| | 1. Area | 1 | | | | | | | | | |
| | 2. Point | 1 | - 1 Table | | | | | | | | |
| | C. Total Solid Waste Disposal | T.T | | 3.9 | | | 0.4 | 1.6 | 0.3 | e en en ditentament me | *************************************** |
| у. | Transportation | | | | | | | | | | |
| | A. Motor Vehicles | | | | | | | | | | |
| | 1. Gasoline | 92.5 56.38 | 6.9 4.2 | 173.7 105.9 | 6.2 | 10.7 | 48.5 | 75.2 | 32.7 | 22.2 | 8.9 |
| | 2. Diesel | 56.38 | 4.2 | 105.9 | 3.78 | 6.53 | 29.57 | 75.2 45.82 | 19.94 | 22.2 13.49 | 5.3 |
| | B. Off-Highway Usage | | | | | | | | | | |
| | C. Aircraft | 179.64 | | 140.8 | | | , and a | 289.9 | | | |
| | D. Railroads | | | | | | | | | | |
| | E. Vesaels | | | * | | | | | | | |
| | F. Gasoline Handling G. Total Transportation | 328.52 | | | | الهجراليم الماد | ويحم تنيخي شو حاشي | | | | |
| | G. Total Transportation | 340.34 | 11.1 | 420.4 | 9.98 | 17.23 | 78.07 | 831.32 | 52.64 | 35.69 | 14.2 |
| | | | | | | | | | | | |

| COLLUTART: Sulfur Oxides | REGION: | Northw | est | • | | | • | in the second | | |
|---|--|--|--|--|---|--|--|---|--|--------------|
| | TOTALS | | T . | - | 1 | | | | | |
| 5. Wood or Bark | | | | THE R. P. LEWIS CO., LANSING, | 1 | | And the second second second second | | | |
| a. Area | | | | | | | | | | |
| b. Point7. Combination | | | | | 96 | | | | | |
| 7. Combination a. Area | ٠. | | | | | | | | | |
| b. Point | | | | | | | Acceptable of Display of the Print Control | | | |
| D. Total Fuel . | 22356.21 | | | | | | | | | |
| Combustion | Anna Contract of the State of t | And the state of t | Control of the Contro | | Annual Management of the Control of | | And the second second second second second second | The Control of the Assessment of the Control of the | Control of the last of the las | |
| II. Power Plants . | | age - | | | | | 4 | | | |
| A. Coal | | | | | | | | | | 13.5 |
| B. Distillate Oil C. Residual Oil | | | | | | | | | | |
| D. Natural Gas | | | | and the | Ì | | | | | |
| E. Combination | | | | | | | je njembova ujeco ^{je} konjunjana (pauly) bonje by pro | | and the second s | |
| F. Total Power Plants | 25918.50 | | | | | | | | | |
| III. Process Emissions | The state of the s | | Charles of the Control of the Contro | And the state of t |) Summing of the section of the section and the section and the section of the se | Annual Control of Cont | and manufactures and the confidence of the second of the | and the second s | oleran al many delibrition of an interesting | mer Market |
| A. Chemical | | | | * | | e de la companya de l | | | | |
| B. Food and Agriculture C. Metallurgical | | the company of the co | - Allendar | | | | | | | 7-12-6 |
| D. Mineral | * | | | | and the second s | | | | | 1 - 4 (by ' |
| E. Wood | | intelligence of the second | | | | | | | | |
| F. Petroleum Storage | | | , | | | | | | | |
| G. Petrochemical Operations | Management of the second | Carrie continues con the transfer of the same and the same | The | in de la Santante de la Company de la Compan | | | hallantyana angry ordere corrections confiltre integrale de co | . 2001 - 2 | - | |
| H. Total Process Emissions | 14239,50 | principalitation interminated in - | | and consideration and confidence and the | | | a high contraction of the contra | re visite all erius parent reacharge | | |
| IV. Solid Waste Disposal A. Incineration | | | | | | | | | 1 | |
| A. Incineration C. 1. Area | | | | | | | | | | |
| 2. Point | , | | | | | | | | | |
| B. Open Burning | | | | | | | | | į. | Y. |
| 1. Area | | | | | | | | | | |
| 2. Point | yan sheeday dagkir ahaa gaada kiriyaa kayaa kayaa dhadday gaabaraa 200 | and the complete to the complete terms and district to | | Committeed and the State of the | | The second secon | en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de | and the second of the second of | | |
| C. Total Solid Waste Disposal V. Transportation | 7.30. | | and the second s | Statute department of the spirit of the spir | - Company of the Comp | - | Marie Carrier Company of Carrier Walter | and the same of th | | |
| A. Motor Vehicles | | | | | | | | | 1 | |
| 1. Gasoline | | | | | | | | | | |
| 2. Diesel | | | | | | | | | | |
| 3. Off-Highway Usage | | | | | | | | 1 1 1 1 1 1 | | |
| C. Aircraft | | | | | | | | | | |
| D. Railroads E. Vessels | | | La de Santa | | | | | | | |
| | | | | | | | | | i | |
| F. Gascline Handling G. Total Transportation | 1799.24 | | | | di salam di salaman. | والمشار والمتهوسة المرابطة | المراجعة المنجية والما | | والمنافقة وما | |
| a. Inter transportation | Anna Carrier | 1 | <u> </u> | 5 |) | | | | | *** |

Sulfur Oxides

VI Miscellaneous Area Sources
A. Forest Fires
B. Agricultural, Silvicultural
and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous

'II Grand Total

A. Area

B. Point

| REGION: | Northwest | | <u> </u> | | and the second s | | | and the second | |
|----------|-----------|----------|----------|---------|--|----------|------------|----------------|-------------------------|
| Bay | Calhoun | Escambia | Gulf | Holmes_ | Jackson | Qkaloosa | SantaRosa | Walton | Washings |
| V | | | | | | | | | - San Britanian Company |
| | | | | | | | | | 1 |
| | | | | | | | ∮ 1 | | |
| | | | | | | | | | |
| | 1 | | | | | 1 | | 1 | |
| 16981.05 | 20.11 | 17691.29 | 14582.81 | 29,55 | 4052.5 | 941.21 | 9940.33 | | 27.60 |
| 423.35 | 20.11 | 675.59 | | 29.55 | 119.70 3932.80 | 941.21 | 96.23 | 54.30 | 27.60 |
| 16557.70 | 0.00 | <u> </u> | 14500.70 | 0.00 | 1 3932,80 | 10.00 | 19844_10_ | 10.00 | 1 90 |

 $i \in X$

| 70 | ALUTANT: Sulfur Oxides | REGION: N | orthwest | mprontanting of the second section of the section of the | s someone de managementarement | (Markeyer with the language was a serious de agreement | 4. The last advantagements promptly for a depolar property of the last | | wayay, as a | | |
|----|--|---------------------|----------|--|--|--|--|--|-------------|--|----------------------------------|
| /I | Miscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning | TOTALS | | | | and the same of th | The state of the s | to a character of the angular character. | | Troping to the state of the sta | T Antal Belleville (1994) |
| | C. Grove Protection | | | | | | and a communicative for the same and the sam | - dy wyd fan sy'n o roen roen by an op grant and an a s | | | rapportagelige , tenhadakanonadh |
| II | D. Total Miscellaneous Grand Total | 0.00 | | | I common the manage common shiften an appear | - | | principal distriction and rate grows property and course of the section of | <u> </u> | | |
| | A. Area | 2409.75 61911.00 | | | | | A A A A A A A A A A A A A A A A A A A | a conservation to the second second | - | | ar reermag |

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| | ALUTANT: Carbon Monoxide | إردائع ووالمستخلص والمرافووساني | EGION: No | Escambia | Gulf | Holmes | Jackson | Okaloosa | SantaRosa | Walton | Washington |
|---------|--------------------------|---------------------------------|-----------|----------|------|---|-----------|----------|-----------|---------|------------|
| I. | | Bay | Carnonn | ESCAROLA | GUII | 110111162 | Jackson | GRAIOGSA | Jancakosa | war con | 1143111116 |
| | A. Residential and | | | ļ | | | | | | | |
| | Institutional Fuel | | | | | | { | | | | |
| | 1. Coal or Coke | | | | | | | | | | |
| | a. Area b. Point | | | | | | | - | | | |
| | 2. Distillate Oil | - | | | | | | | 1 00 | 2 25 | 2 63 |
| | . a. Area | 14.19 | 1.17 | 27.45 | 1.67 | 1.48 | 5.56 | 12.43 | 4.99 | 2.25 | 2.63 |
| | b. Point | 1 | | | | | | 4 | | | |
| | 3. Residual Oil | | | | 0.16 | 0 17 | 0.56 | 1.43 | 0.6 | 0.26 | 0.19 |
| | a. Area | 1.22 | 0.12 | 3.3 | 0.16 | 0.17 | 0.50 | ł | 0.0 | 0120 | 1 |
| | b. Point | | * | 1 | | | | 4 | | | |
| | 4. Natural Gas* | 42.85 | 4.34 | 116.86 | 5,75 | 5.1 | 19.6 | 50.19 | 21.78 | 9:16 | 6.52 |
| | a. Area b. Point | 42.00 | 7.57 | 110.00 | 0,,0 | | | i i | | | |
| | 5. Combination | | | | | | | | | , | |
| | a. Area | | | | | | - Andrews | İ | | | |
| | b. Point | | | | | | | | | | |
| | B. Commercial | 1 | | | | | | | | | |
| | l. Distillate Oil | 0.04 | | | | | 0.01 | 0.1 | | | |
| | a. Area | U.U41 | | 7-14 | | | 0.01 | 1 | | | |
| | b. Point | | | ĺ | | | | 1 | | | |
| ~ | 2. Residual Oil | | | | | | | | | | |
| G | a. Area b. Point | 4 | | | | | | | | | |
| ب. س | C. Industrial Fuel | | | | | | | | | | |
| w | 1. Coal or Coke | | | | | | 1 | | | | |
| | a. Area | | | | | | | | 1 | | |
| | b. Point | | | | | | Í | | | | |
| | 2. Distillate Oil | | | | | | | } | | | |
| | a. Area | | | | | | | | | | |
| | b. Point | 1 | | } | | | | | | | |
| | 3. Residual Oil a. Area | 4 | | | | - | | | | - | |
| | b. Point |] | | | | | - | | | | |
| | 4. Natural Gas | | | | | | | | | | |
| | a. Area | | s : | 4.23 | | | 1 | | | | |
| | b. Point | | • | 1 | | | | | | | 1 |
| | 5. Process Gas | | | į. | | | * | | | | |
| | a. Area | | | | | | | | | | |
| | b. Point | | | | | managers of a series of the series of the series of | <u> </u> | 1 | | | · ., |

^{*} Indiades Communcial Haes

| | AMT: Carbon Monoxide | | NS 1 | | | • | | | | | |
|----------|---|---------------|--|----------------|--|--|--|--|--|---|--|
| IBLIT | .Vili carnon nonextag. | REGION: | Northwes | t Escambia | Gulf | The re | arthur of market someone . | Okaloosa | Cantabaal | TAT IN E. | *** * * |
| | 6. Wood or Bark | Day | Califoun | ESCAMOIA | bull | <u>Holmes</u> | Jackson | Ukalousa | SantaRosa | walten. | Washing |
| | a. Area | | | 1 | | | | | | | |
| | b. Point | | | 11.9 | | | | - | | | Long Marie |
| | 7. Combination | | | | 1 | | | · . | | | |
| | a. Area | 223.4 | | 149.2 | | | | 3:9 | 2.0 | | |
| _ | b. Point | | | | | | | | | | |
| D. | Total Fuel · Combustion | 281.70 | 5.63 | 312.94 | 7.58 | 6.75 | 25.73 | 68.05 | 29.37 | 11.67 | 9.3 |
| T D/ | wer Plants . | ` | | | | | | | | * | - |
| | Coal | 1.35 | | | | | 96.2 | } | | | |
| | Distillate Oil | | • | | | | 1 50.5 | | | | į. |
| | Residual Oil | | | 1 | | | | | | | |
| D. | Natural Gas | | | 234.7 | · ca. | | | | | | |
| | Combination Total Power Plants | 1.35 | And the state of t | 234.7 | | | 96.2 | Assessment and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second | No. 70-Househouse on the attended of Them. | | - |
| | ocess Emissions | on the second | erannongonopus (haproder anga physic mis caucas on m | 4-7-5-7 | and the second s | general constitution and production of the state of the s | 90.4 | The second secon | | | Aller and the second se |
| | Chemical | | | | | | - | | | | |
| Э. | Food and Agriculture | | | | | | | | | | *** |
| Ç. | Metallurgical . | | | | | | | | T. C. Carlon | | No. |
| | Mineral , | | | | | | | | , | | 1 |
| | Mood | 9821.8 | | | 0.3 | | | | | |) |
| Į. | Patroleum Storage Petrochemical Operations | | | 1 | | | | - | | | * ! |
| E. | | 9821.8 | | | 0.3 | 194. | in and in a particular entire contraction | gangarjanja radiojeroti atau-ar-tet jang + teampar na | - | and the last production of the first particular space (s) and | - decreased |
| | lid Waste Disposal | 3032.0 | and the second second second second second second second second second second second second second second seco | | 9.3 | | A CONTRACTOR OF THE PARTY OF TH | | | | 1 |
| Ă. | Incineration | | | | | | | | | | |
| | I. Area | 9.3 | | 33.0 | | | . 0.4 | 7.4 | 2.6 | | |
| | 2. Point | | 378.6 | | | | | 845.0 | | | 1 |
| В. | Open Burning | | | | | | | | | | 1 |
| | 1. Area 2. Point | | | 7 | | 5 | | , i | | | Charge or a |
| ام . | Total Solid Waste Disposal | 9.3 | 378.6 | 33.0 | andrik annanderhil etiken in protes vil in apsoni | a - nacional se considerary municipal deliberative graphic plant | 0.4 | 852.4 | 2.6 | e-fol t-igenomic science will | |
| - Tr | ansportstion | | | | AND AND ASSESSMENT AND ASSESSMENT OF THE PROPERTY OF THE PROPE | | V. 7 | 002.7 | 6 : 0 | | 1 |
| . A. | Motor Vehicles | | | - | is. | - | | 1 | | | } |
| | l. Gasoline . | 38221.4 | | 113711.8 | 2570.6 | 4429.2 | 20042.4 | 31057.3- | 13524.5 | 9169.8 | 3666.2 |
| | 2. Diesel | 393.4 | 29.3 | 738.9 | 26.4 | 45.6 | . 206.3 | 319.7 | 139.1 | 94.2 | 37.6 |
| ₽. | Off-Highway Usage | 1952.4 | | 874.6 | | | 1 | 9203.1 | | | 1 1 |
| | Aircraft Railroads | 1552.4 | | 0/4.0 | | | | 9203.1 | | | i. |
| D. E. | · · · · · · · · · · · · · · · · · · · | | | } | | er automotive | Ì | | | i | and the same of th |
| E. | | | | | ` | | and other states | | | ł ! | |
| g. | | 40567.2 | 2890.8 | 115325.3 | 2597 0 | 4474.8 | 20248.7 | 40580.1 | 13663.6 | 9264.0 | 7707 0 |
| | TOTAL TRUMPORTER CANAL | | _ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | 122000000 | | 1 44/4.0 | | 70300.1 | : +3003.0 | 2444 | 1. 2402.8 |

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| VI | Miscellaneous Area Sources | REGION: N | Calhoun | Escambia | Gulf | Holmes | Jackson | Okaloosa | SantaRosa | Walton | Washington |
|--------------|---|--|---------------------------------------|--|--------------------------------------|--------------------------------------|---|--|--|--|-------------------------------------|
| | A. Forest Fires B. Agricultural, Silvicultural and Landelearing Burning | 475.5 1179.0 | 365.8 907.0 | 900.6 | 378.0 937.0 | 298.2 1286.0 | 577.8 2492.0 | 1296.8 4888.5 | 1404.8 5296.0 | 633.7 2733.5 | 354.1 1527.5 |
| | C. Grove Protection D. Total Miscellaneous Grand Total A. Area B. Point | 1654.5 52335.85 42289.30 10046.55 | 1272.8 4547.83 4169.23 378.6 | 4295,1 120201.04 119817.14 383.90 | 1315.0 3919.88 3919.58 0.30 | 1584 2 6065.75 6065.75 0.00 | 3069.8 23440.83 23344.63 96.20 | 6185.3 47685.85 46840.85 845.00 | 6700.8 20396.37 20396.37 0.00 | 3367.2 12642.87 12642.87 0.00 | 1881.6 5594.76 5594.76 0.0 |
| | • | | | | | | | | | | |
| | | | | | | > | • | • | | | |
| | | • • • | : | • | | | | | | | |
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|) | | | | | | | | | | | |
| . | | | | • | | | • | | • | | |
| | · | | • . | 4 6. ■ | | | | | ٠. | • | |
| | | | | | | | | | | | • |

| LUTZIT: | Carban | Vanavide |
|---------|--------|----------|
| | | |

| , - | ********** | 7 | 0 |
|-----|---------------|------|---------|
| ٠. | Miscellaneous | Area | Sources |

- B. Agricultural, Silvicultural and Landclearing Burning
 C. Grove Protection
 D. Total Miscellaneous
 Crand Total

- A. Area
- B. Point

| | REGION: | Northwest | | | | | | | |
|----|------------------------|---------------------------------------|----|--|--|---|--|--|-------------------------|
| | TOTALS | I I I I I I I I I I I I I I I I I I I | | | | | _ | emode mi, somo ve ros moneyes against | partition of the second |
| | | | | | · | | | 4 | |
| al | | | | | | | The state of the s | | |
| | | | \$ | | | | | | |
| | 31326.30 | | | | and the state of t | | | | |
| | 296831.01 285080.46 | | Ý: | | mar de la Servicio de la Companio de | | | | |
| | 285080.46 | | | | | | | | |
| | 11750,55 | <u> </u> | | | A CONTRACTOR OF THE PROPERTY O | THE DESCRIPTION OF THE PROPERTY OF THE PARTY. | i | | |

POLLUTANT: Hydrocarbon

REGION: Northwest

| | myar | Ocaroon | in the second of | arantu, and angular Michigan, a research and a service of | ner redesagni grandina este sentre pa 1 | | A Principle of Principles and Princi | Tarana manimisma mana mana mana mana mana mana mana m | oraci-aasaamantaasidersaamaa | STATE OF THE PROPERTY OF THE P | entral far in the transfer som the degree and any to | The same of the sa |
|----|--------------|---------------|--|---|--|--|--|--|--|--|---|--|
| т | Fuel Combust | rion | Bay | Calhoun | Escambia | Gu1f | Holmes | Jackson | Okaloosa | SantaRosa | Walton | Washington |
| 1. | A. Resident | | | | and a respect of the same property of the same and the sa | er (Tev Aspar) Special Brakers (Baret op Course Charles Specialis) | The second secon | AND PRESIDENT AND SAFETY AND AND SAFETY OF THE SAFETY OF T | Stranger of the State of the St | production confidence of the wife of the state of the sta | CONTRACTOR | Secretaria - Commission of the |
| | | tional Fuel | | | | | | ļ | | | | |
| | | l or Coke | į | | | | | } | | | | 1 |
| | | | } | | 1 | | | 1 | | | | 1 |
| | a. | Area Point | | | - | | | | | | | |
| | | | | | ţ | | | | | | | |
| | | tillate Oil | 8.52 | 0.72 | 16.45 | 0.99 | 0.87 | 3.32 | 7.45 | 3.02 | 1.35 | 1.0 |
| | | Area | 0.02 | 0.,2 | 10.45 | 0.55 | 0,0. | 0.52 | , , , , , | 0,02 | 11.55 | 1.0 |
| | | Point | | | - | | , | 1 | | | | |
| | | idual Oil | 0.73 | 0.07 | 2.0 | 0.1 | 0.1 | 0.34 | 0.86 | 0.37 | 0.16 | 0.11 |
| | | Area | 0.73 | 0.07 | 2.0 | 0.1 | 0.1 | 0.34 | 0.00 | 0.37 | 0.10 | 0.11 |
| | | Point | | | | | | 1 | | | | |
| | | ıral Gas* | 1774 | 3 74 | 46.75 | 2.3 | 2.04 | 7 94 | 20.00 | 8.71 | 3.66 | 2.61 |
| | | Area | 17.14 | 1.74 | 40./3 | 2.3 | 2.04 | 7.84 | 20.08 | 0./1 | 3.00 | 2.01 |
| | | Point | | | | | | | | | , | |
| | 5. Comb | | 1 | | İ | | | | | | | |
| | ã. | Area | } | | 1 | | | Ì | | | | |
| | | Foint | | | ţ | | | | | | | |
| | B. Commerci | ial | | | | | | | | | | |
| | l. Dist | tillate Oil | | | | | | | 0.75 | | | |
| | a. | Area | 0.61 | 0.03 | 0.02 | 0.05 | 0.02 | 0.15 | 0.16 | 0.03 | 0.03 | 0.02 |
| | b. | Point | | | - | | | 1 | | | | |
| | 2. Resi | idual Oil | | | | | | 1 | | | | |
| Ç | | Area | ì | | | | , | | | | | |
| i | .d | Point | | | | | | | | | • | |
| 18 | C. Industri | ial Fuel . | | | | | | 1 | | | | |
| w | | l or Coke | i | ! | | | | | | ļ | | |
| | | Area | | | , | | | | | | | 1 |
| | | Point | | | | | | 1 | | | | |
| | | tillate Oil | | | | | | | | | | |
| | | Area | | | - [| | | İ | | | | |
| | | Point | | | l | | | - | | - | | |
| | | idual Oil | | | | | 1 | | | | | |
| | | Area | | | 1 | | | 0.9 | | | | 4 |
| | | Point | | | | | | 1 | | | | |
| | 4. Nati | | 1 | 1 | | • | | | | | | |
| • | | Area | | | ŗ | | | | | | | |
| | b | Point | | | 423.4 | | | | | | | |
| | 3. Prod | | † † | | | | | Į. | | | | |
| | | Area | 1 | į | | | | • | Í | | ! | |
| | • | | j | • | ٠. | | · - | | | | • | 1 |
| | 10. | Point | * Tagler and remains the remains and a second and a secon | : | | | , | ! | | |) | · |

^{*} Indicing Common of all Hage

| - 14 - 1 | LLUT | HMT: Hydrocarbon | ' REGION: | Northwest | | | | | | | | |
|-------------|---------------------------------------|---|-----------|-----------|-------------|-----------------------------|--------|---|--|-----------|-------------|---------------------------------------|
| | | • | Bay | Calhoun | Escambia | Gulf | Ho1mes | Jackson | Okaloosa | SantaRosa | Walton | Washingt |
| | | 6. Wood or Bark | | | | | | | | | | 1 |
| | | a. Area | |) | 12.9 | • | | j | | } | | j |
| | | b. Point | į | | | | | | | | | ! |
| | | 7. Combination | 1 | | 1 | | | | [| | | í |
| | | a. Area | 278.2 | 1 | 161.3 | 3.9 | | | 4.6 | 143.7 | | 1 |
| | _ | b. Point | 305.20 | ļ | | | 7 0 7 | 30 55 | | - | | |
| | D. | Total Fuel | 303.20 | 2.56 | 662.82 | 7.34 | 3.03 | 12.55 | 33.15 | 155.83 | 5.2 | 3.74 |
| ~ ~ | m | Compustion Wer Plants | | 1 | } | | | | | | - | |
| 7.1 | | | 44.9 | | 1 | - | | | | | | |
| | | Coal | 44.9 | | 1 | | | 2.9 | } | | | |
| | В. | Distillate Oil Residual Oil | | 1 | 1 | .** | | | | | | i |
| | ٠, | Natural Gas |] | | | 1 | | | 1 - | 1 | | |
| | | Combination | | | 308.5 | | | | | 1 | | |
| | # # # # # # # # # # # # # # # # # # # | Total Fower Plants | 44.9 | | 308.5 | | | 2.9 | | | | |
| 777 | 2000 | ocas Emissions | | | 300.3 | | | 4.3 | ļ | | | |
| *** | | Chemical | | | i l | | | | | | | |
| | Э. | | | | 1 | | | | İ | | | 1 |
| | Ċ, | Metallurgical | | | | | | | 1 |) | | į |
| | | Mineral | 1.0 | | | | | | | | | • |
| | Ĕ. | Wood | 17.8 | | 1.8 | 28.7 | | | | | | į |
| | F. | | 1672.3 | | 18.5 | 267.0 | 1 | | 1. | 104 5 | | į |
| | G. | | 10/2.5 | | 1675.7 | 263.8 | , | | 157.4 | 194.5 | 91.4 | i |
| 2 | E. | | 1691.1 | | 1696.0 | 292.5 | | | 157 4 | 194.5 | 91.4 | |
| I IV. | | Lid Waste Disposal | | | 1050.0 | | | | | 1-137.9 | | · · · · · · · · · · · · · · · · · · · |
| | A. | | | | | 1 | | | • | . [| | |
| | | 1. Area | 4.3 | 32.0 | 15.3 | | | 0.2 | 3.4 | 1.2 | | |
| ¥ | | 2. Point | | | 1 | | | 0.2 | 71.5 | 1.2 | | ! |
| • | В. | Open Burning | | | | | | | /1.3 | | | 1 |
| : | | 1. Area | | | | | , | | | | | 1 |
| İ | | 2. Point | | 4 | | | | | 1 | ĺ | | İ |
| | C. | Total Solid Waste Disposal | 4.3 | 32.0 | 15.3 | BANK BA LANGUAGO CONTRACTOR | | 0.2 | 74.9 | 1.2 | | |
| v. | | nsportation | | | i i | | ······ | | 1 | | | |
| 1 | | Motor Vehicles | | | ** | | | | 1 | • | | |
| 1 | | l. Gasoline . | 7352.9 | 550.5 | 18590.0 | 494.5 | 050 7 | | | | | \ |
| | | 2. Diesel | 76.43 | 5.69 | 143.54 | 5.12 | 852.1 | 3855.7 | 5974.7 | 2601.8 | 1764.1 | 705.3 |
| , | Ξ. | Cff-Highway Usage | | 3.03 | 143.54 | 3.12 | 8.86 | 40.08 | 62.11 | 27.03 | 18.3 | 7.3 |
| | C. | Aircraft | 279.5 | | 61.5 | | | } | 70.7 | | • | 1 |
| | D. | Railroads | | { | 01.3 | | | 1 | 3843.9 | | | |
| | Ē. | Vessals | | | | | | ! | • | 1 | | |
| | F. | Gaseline Handling | 443.6 | 36.4 | 912.1 | 32.7 | 56.3 | 254.6 | 394.6 | 171.8 | 116.5 | 46.6 |
| | Ğ. | · · · · · · · · · · · · · · · · · · · | 8152.43 | 592,59 | 19707.14 | 532 . 32 | | 4150.38 | 10275.3 | 2800.63 | 1898.9 | 759.2 |
| | ~ . | e e e como o marcina e e a estada e e e e e e e e e e e e e e e e e e | | · | | | · | + *** · • · · · · · · · · · · · · · · · · | ************************************** | | | |

^{** -} The predicted emissions in Escambia County from automobiles will be 11,563 tons in 1975 (from figure 63, page 150 of the plan). Reduction of emissions from other sources is not expected since there are no specific hydrocarbon emission limitations.

| | | the so to define to the control of t | • | | | | | | `* | | *1 | |
|--------|---------------|--|----------------------------------|--|--|---|-------|--|--|--|----------|--|
| | | • | | _ | | | | | | | | |
| | | | | • | | | * * * | | 3-00 | | | |
| | | | | | | | ٠. | | w.* | | ** | • |
| | | | | | | | • | | | | | ÷ |
| | i blatui | TANT: Hydrocarbon | TOTAL TOUR | Northwes | | | | | - | | | |
| | دِ ٢٠ تلديدند | inti- hydrocarbon | | Northwes | | | | | 1 | | | <u> </u> |
| | | 6. Wood or Bark | TOTALS | alternative contract has a sense that the sense of the se | | | | | | | <u> </u> | |
| | | a. Area | | | | , | • | • | | 1 | l ' | : |
| | | b. Point | | | | 1 | | | 1 | 1 | . 1 | |
| | | 7. Combination | | | { | 1 | | | | . ' | ļ . | ; |
| | | a. Area | 1 | | | | • | | | , | 1 | |
| | | b. Point | | - | | - | | | | - | | To make the same to construct the specific |
| | D. | . Total Fuel | 1191.42 | | | | | | } | | <i>f</i> | |
| | TT . | Combustion | 1. | | | | ! | The state of the s | | 1 | | • |
| | | ower Plants . Coal | | | | | . ; | | | 1 | | |
| | | . Coar . Distillate Oil | | • | 3 | | | | | 1 | | |
| | Ĉ. | . Residual Oil | | | | | | | | | į | . 4 |
| | | . Natural Gas | } | | | 1 | | į | | 1 | 1 | : |
| | E. | . Combination | | | | ` | | | | \ | | |
| | | . Total Fower Plants | 356.30 | |] | | | | | · | Í | |
| I | II. Pr | rocess Emissions | | | | | | | | | | |
| | A. | . Chemical | 1 | | | | | | | , | ļ ' | t , |
| | ಶ. | . Food and Agriculture . Metallurgical | 1. | | | | | } | | 1 | | |
| | ς, | . Metallurgical . | - 1 | | | | |] | | ! | 1 | |
| | E. | | 1 | | | | | • | | ! | ! | , |
| | Ŧ. | . Petrolsum Storage | | | | | | | | ! | 1 | · |
| | G. | . Petrochemical Operations | | nerally, and in Agracian visits and in Hays Lawrenburg | | | | Committee a succession of the | According to Carelle 1971 of Printer Care Language Printer States States and According to States and A | and the state of t | | priliting agree that agreed on 100 months participated by the control of |
| \sim | н, | . Total Process Emissions | 4122.90 | | | | | | | | | |
| | V. Sc | olid Waste Disposal | | | c | | • | | | \ | | 1 |
| 20 | A. | . Incineration | | | | | | | | ! | | ~ |
| _ | | 1. Area 2. Point | | | | | | i | | | į | |
| | TD. | . Open Burning | | | | | • . | | | | | |
| | ۵. | 1. Area | | | | } | | | | | | ; |
| | | 2. Point | | | | | | | - | 1 | 1 | week. |
| | с. | . Total Solid Waste Disposal | 127_90 | - Committee of the Comm | | | | | | | | |
| | V. Tr | cansportation | | | | | | | | | | |
| | Α. | . Motor Vehicles | | | 1 | | | | ļ | | j l | 1 |
| | | 1. Gasoline | | | | | | | 1 | | | |
| | ~ | 2. Diesel |] | | | | | | | | • | : |
| | E. | . Off-Highway Usage . Aircraft | | ٠. | | | | | | | | |
| | | . Aircraft . Railroads | | | | , | | | | | | |
| | | . Vessels | | | | | | | 1 | | | ŧ |
| | | . Gasoline Handling | | | | | | 1 | 1 | | ; | į |
| * | | . Total Transportation | 49786.15 | and the second of the second o | ************************************** | | | | . | 1 | | The state of the s |
| | | | نسيها البطي كالكهاف سامية المبية | | | | * | ************************************** | | | - | 4 |
| | | | | | | | | | | | | |

| .0. | WINT: Hydrocarbon | REGION: | Northwest | | | | | | | | William Navigaria |
|-----|--------------------------------|--------------------------------------|-----------|---|------------------|---------------|-----------|----------|-----------------|--|--|
| | | Bay | Calhoun | _Escambia | Gulf | Holmes | Jackson | Okaloosa | SantaRosa | Walton | Washingtos |
| VI | Miscellaneous Area Sources | . • | | | | | | | | and the state of t | The state of the s |
| | A. Forest Fires | 103.7 | 79.8 | 196.5 | 82.5 | 65.1 | 126.1 | 282.9 | 760 5 | <u>.</u> | * |
| | B. Agricultural, Silvicultural | 235.8 | 181.4 | 678.9 | 187.4 | 65.1 257.2 | 498.2 | 977.7 | 360.5 1059.2 | $\frac{138.3}{546.7}$ | 77.3 305.5 |
| | and Landelearing Burning | | | | | | , , , , , | 3,7, | 1033.2 | 340./ | 505.5 |
| | C. Grove Protection | -/attrassensitionDischarconStantessa | - | CONTRACTOR OF THE PARTY OF THE | 7200 | 322.3 | | 1260.6 | 1419.7 | COF C | i promotogypiskiskistyrimipogypinoson, 1941-isa. |
| | D. Total Miscellaneous | 339.5 | 261.2 | 875.4 | 269.9 | | 624.3 | | | <u> 685.0</u> | 382.8 |
| .II | Grand Total | 10537.43 | 888.35 | 23265,16 | 1102.06 | 1242.59 | 4790.33 | 11801.35 | 4571.86 | 2680.5 | 1145.7 |
| | A. Area | 8523.32 | 888:35 | 20675.96 2589.20 | 809:56 292:50 | 1242.59 | 4/87.43 | 115/2.45 | 4233.66 | 2589.10 | 1145,7 |
| | B. Point | 2014.20 | 0.00 | 2589,20 | 292.50 | 0.00 | 2.90 | 228.90 | 338.20 | 91.40 | 0.00 |

** - Accounting for emission reduction from automobiles in 1975 and assuming no emission growth or reduction from other sources, the expected total emissions in 1975 will be 16,238 tons or approximately 30% reduction.

Hydrocarbon TOT DUTANT:

/I Miscellaneous Area Sources

A. Forest Fires

B. Agricultural, Silvicultural and Landclearing Burning

C. Grove Protection
D. Total Miscellaneous
Grand Total

A. Area

B. Point

| | REGION: | <u>Northwest</u> | | | | a a langer to the following of the state of | Part Princer STATE AT HOUSE AT THE CASE AND ADDRESS. | na was a same a same a same a same a same a same a same a same a same a same a same a same a same a same a sam | | |
|-----|----------|--|--|--|--|--|--|--|---|--|
| | TOTALS | | | | | | | . Mr | | |
| ٠ | • | | | | | | | | | |
| a 1 | | | | | | | | | | • |
| 27 | | 1 | 1 | | | | · | | | |
| | | | | | : | | | | | |
| | 6440.70 | | | Control of the Contro | | ari kaken, Kalensalai indika madaliki kaleka | Supergitification billion to suppress process control of the contr | ACCUPATION OF THE SECOND CONTRACTOR OF THE SECOND S | POPEN ENGINEERING OF DISTANCE ASSESSED THE RESIDENCE OF | angung mengerakkan menggahan di Seria Andreas |
| | 62025,37 | | | | | | | | | |
| | | A CONTRACTOR OF THE PARTY OF TH | The state of the s | THE PARTY OF THE P | AND DESCRIPTION OF THE PROPERTY OF THE PERSON OF THE PERSO | The state of the s | Company of Assessed Spokes of manager and and | AND CANADA STREET, SAN SAN SAN SAN SAN SAN SAN SAN SAN SAN | Total Control of the | and the second contracts of the second contracts of the second contracts of the second contracts of the second contracts of the second contracts of the second contracts of the second contracts of the second contracts of the second contract of the secon |
| | 5557.30 | | The state of the s | gar ver period of the state of | | andress and the state of the st | | Maria de Caracina | | TO THE PERSON NAMED IN COLUMN 1 |

| ,• · | Nitrogen Oxide | Bay | Calhoun | Escambia | Gulf_ | Holmes | Jackson | Okalassa | SantaRosa | Walton | Washingto |
|-------|---------------------------------|-------|----------------|-----------|---|---|--------------|----------|-------------|----------------|-------------|
| | mbustion | Day | California Car | LSCamula; | CHLI | 111111111111111111111111111111111111111 | - WATERSHIII | vnalvysa | San Larrosa | *1 EL L C C/11 | 11691171187 |
| | idential and titutional Fuel | | . } | | | | | | | | |
| | Coal or Coke | | | | | | | | | | 1 |
| .L. a | a. Area | | | | | | · | | | | |
| | b. Point | | | | | | | | | | l |
| 2. | Distillate Oil | | | | | | | | | | l |
| | a. Area | 34.03 | 2.74 | 65.8 | 3.98 | 3.57 | 3.83 | 29.85 | 11.97 | 5.37 | 3.9 |
| • | b. Point | | | | | | | - | | | • |
| 3. | Residual Oil | | | | | | | | | | } |
| | a. Area | 2.94 | 0.3 | 8.0 | 0.4 | 0.42 | 1.34 | 3.44 | 1.47 | 0.63 | 0. |
| | b. Point | | | | | | | | | | |
| . 4. | | | | - | • | | | | | | |
| | a. Area | 117.8 | 11.93 | 321.4 | 15.8 | 14.03 | 53.9 | 138.0 | 59.9 | 25.2 | 17. |
| | b. Point | | 1.1 | | | | * | | | | |
| 5. | Combination | | | | | | | | | | |
| | a. Area | | | | | | | | | | ļ |
| | b. Point | | | . 1 | | | | |] | | |
| | mercial | | | | | | | | | | |
| 1. | | | 0.50 | 0.74 | 0.00 | | 7 00 | 7 18 | 0.50 | | |
| • | a. Area | 12.27 | 0.52 | 0.34 | 0.98 | 0.3 | 3.09 | 3.17 | 0.52 | 0.53 | 0. |
| _ | b. Point | | | | | | | | | | |
| 2. | Residual Oil | 1 | | | • | | | | | | |
| | a. Area | | | | 140 | | 1 | | | * | |
| | b. Point | | | | | · | · | | | | 1 |
| | ustrial Fuel | | | • | | | | | 1 | | ļ |
| 1. | Coal or Coke | | | | | | | | | | j |
| | a. Area b. Point | | | 1 | | | | | | | 1 |
| 2 | Distillate Oil | | | | | | | | - | * | |
| ۷. | a. Area | | | | | | | | 1 | | |
| | b. Point | | | - ' | | | | | 1 | | 1 |
| 2 | Residual Oil | | | | r. | | | | - | | |
| ٠, د | a. Area | | | | F | | 19.9 | · i | 1 | • | |
| | b. Point | | | | 77.8 | | | | | | |
| 4 | Natural Gas | | * | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | Ì | | |
| ** | a. Area | | | | | | | | | | 1 |
| | b. Point | | • | 2424.5 | | | | | (| | |
| 5 - | Process Gas | | | | | | | | | | |
| -, | a. Area | | | | | | | ٠ | | | Ì |
| | la Point | | | | | i · | | | 1 | | į. |

^{*} Includes Commercial Usas

| ### Callow Second | | | | | | , | • | | | | | |
|--|--------------|----------------------|---|--|-------------|--|--|--|--|--|---|---|
| Bay Calhoun Recambia Gulf Holmes Jackson Okaleosa SantaRosa Walton Na | COLLUTANT: N | itrogen Oxide | | Northwes | <u>t</u> | | | ge et milit 11. da pero etterit maltimitation i se | ngung van de haavondensemblaandersen h | gannami manami mera | | _ |
| a. Area b. Point 7. Cerbination a. Area b. Point 7. Cerbination a. Area b. Point D. Total First Combustion II. Power Plants A. Call B. Distiliste Oil C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas C. Residual Oil D. Extural Gas D. Frod and Agriculture C. Matallurgical D. Eineral D | ~ • | | Bay | Calhoun | Escambia | Gulf. | Holmes | Jackson | Okaloosa. | SantaRosa | Walton | Washin |
| D. Foint Combination A. Area D. Foint D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel Combustion D. Total Fuel D. Fuel Fuel Fuel Fuel Fuel Fuel Fuel Fuel | | | | | | | | | | | | |
| 7. Combination a. Area b. Point D. Total Fuel Combustion II. Power Plants A. Cal B. Distillate Oil C. Rasidual Oil D. Natural Gas E. Combination F. Total Fuel Combustion III. Process Emissions A. Charical B. Food and Agriculture C. Mostallurgical D. Mineral E. Rood G. Fetrochemical Operations G. F. Petroleum Storage G. Fetrochemical Operations C. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Ogen Furning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline A. Motor Vehicles 1. Gasoline A. Motor Vehicles 1. Gasoline C. Afercat C. Afercat C. Afercat C. Afercat C. Aircraft D. Railroads E. Vessels F. Castline Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Solid Handling F. Soline Handling | | | | | 5.2 | | | · | | Ī | | |
| D. Total Fuel 2598 98 15.49 3700.34 1818.96 18.32 82.06 197.66 1044.50 31.75 D. Total Fuel 2598 98 15.49 3700.34 1818.96 18.32 82.06 197.66 1044.50 31.75 II. Power Flents A. Csal 808.6 808.6 8.6 1731.7 D. Natural Gas E. Combination F. Total Fower Flants 808.6 7317.4 8.6 1731.7 III. Process Enissions A. Charical B. Food and Agriculture C. Notallurgical D. Mineral 12.8 30.1 135.8 19.5 E. Wood G. Fetrochemical Operations G. Fetrochemical Operations 568.8 108.8 135.8 19.5 H. Total Frocess Emissions 368.8 108.8 135.8 19.5 A. Incineration 1. Area 2.1 3.0 7.3 0.1 8.1 0.6 D. Oper Burning 1. Area 2. Point 3.0 0.1 8.1 0.6 V. Transportution A. Noter Vehicles 1. Gasoline 6682.4 500.5 833.9 29.9 51.76 234.3 363.0 158.0 106.9 C. Aircraft D. Railroads 2. Vessels E. Vessels E. Vessels E. Sosline 441.0 83.4 638.5 F. Gasoline Handling F. Gasoline 6681.8 | 7. C | combination | | | 35.3 | | | | | | | |
| D. Total Tuel Combustion II. Power Plants A. Csal B. Distillate Oil C. Rasidual Oil D. Natural Gas E. Combination F. Total inwer Plants B. Food and Agriculture C. Motallurgkeal D. Sineral E. Nood G. Fetrochemical Operations H. Total Process Emissions A. Incineration 1. Area 2. Point B. Oger Burning 1. Area 2. Point B. Oger Burning 1. Area 2. Point B. Oger Burning 1. Area 2. Point B. Oger Burning 1. Gasoline A. Noter Wehicles 1. Gasoline A. Motor Wehicles 1. Gasoline C. Aircraft D. Railroads C. Aircraft D. Railroads C. Aircraft D. Railroads C. Vessels F. Gasoline Handling F. Gasoline Handl | a | . Area | 2431.9 | | 815 8 | 1720 0 | | | 23.2 | 970.7 | | |
| Combustion I. Power Plants A. Cal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Fower Plants III. Process Enissions A. Charleal B. Food and Agriculture C. Matallurgical D. Mineral E. Mood F. Patroleum Storage G. Petrochemical Operations H. Total Frocess Enissions V. Solid Waste Disposal A. Indimeration 1. Area 2. Point B. Oper Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline A. Gasoline C. Aircraft B. Gasoline C. Aircraft D. Railroads E. Vessols F. Gasoline Handling C. Fossoline C. Fossoline Handling C. Fossoline C. Fossoline C. Fossoline C. Fossoline Handling C. Fossoline C. Fo | | . Point | | | | | | 00.00 | 100 | | ļ | } ************************************ |
| II. Power Flants | | | 2598.94 | 15.49 | 3700.34 | 1818.96 | 18.32 | 82.06 | 197.66 | 1 1044.56 | 31.73 | 22. |
| A. Csal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Fower Plants F. Total Fower Plants II. Process Emissions A. Chumical B. Food and Agriculture C. Natallurgical D. Hineral E. Mood F. Patroleum Storage G. Petrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Indimeration 1. Area 2. Point B. Oper Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportstion A. Noter Vehicles 1. Gasoline A. Indisposal C. Total Solid Waste Disposal V. Transportstion A. Noter Vehicles 1. Gasoline A. Indisposal C. Aircraft D. Ballroads E. Vessels F. Gasseline Handling A51.0 853.4 853.4 853.4 853.4 853.4 853.4 853.4 853.4 853.4 853.5 853.5 853.5 853.5 853.5 853.5 853.5 853.5 853.6 853.6 853.6 853.6 853.6 853.6 853.6 853.6 853.6 853.7 853.7 853.7 853.7 853.9 853.9 853.4 853.4 853.4 853.5 853.5 853.5 853.5 853.5 853.6 853.6 853.6 853.6 853.6 853.6 853.7 | | | | | | | | | | | | |
| B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Fower Plants 808.6 7317.4 8.6 1731.7 | | | 808.6 | | | | | 1721 7 | | | | |
| C. Residual Oil D. Natural Gas E. Combination P. Totel Fower Plants II. Process Emissions A. Chemical B. Food and Agriculture C. Matallurgical D. Mineral E. Mood F. Petrodeum Storage G. Fetrochemical Operations H. Totel Process Emissions V. Solid Waste Disposal D. Aira D. Point D. Open Burning D. Area D. Point D. Railroads D. Bis.o 106.9 D. Railroads D. Railroads D. Railroads D. Cascoline Handling | B. Disti | llate Oil | | • | | 8.76 | | | | | | |
| E. Combination F. Total Fower Plants II. Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Wood G. Petrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline A. Motor Vehicles 2. Diesel B. Off-Mighway Usage C. Aircraft D. Railrozds E. Vessels F. Gascline Handling 431.0 | | | | | | • | | · - | | 1 | | , |
| F. Total Fower Plants II. Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Hineral E. Wood F. Petroleum Storage G. Fetrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroids E. Vessels F. Gascline Handling 431.0 858.6 7517.4 8.6 1731.7 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 10.6 10.6 10.6 10.7 1 | D. Natur | al Gas | | | 7317 A | • | | | | | | |
| A. Chemical B. Food and Agriculture C. Matallurgical D. Mineral E. Wood F. Patroleum Storage G. Fetrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incheration 1. Area 2. Point B. Oper Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling A 30.1 135.8 19.5 | | | 808.6 | | 7317.4 | 8.6 | | 1731 7 | | | The second Recognition of the second second second second | |
| A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Mood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions V. Schid Waste Disposal A. Incheration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Moter Vehicles 1. Gasoline 2. Diesal 2. Diesal 3. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Storage A. Aircraft A. Aircraft A. Aircraft A. Storage A. Aircraft A. Aircraft A. Aircraft A. Aircraft A. Aircraft A. Storage A. Aircraft A. Air | | | *************************************** | The state of the s | | | | | CARGO CONTRACTOR CONTR | - Annual Columbia Col | | ; |
| C. Matallurgical D. Mineral E. Wood F. Patroleum Storage G. Fetrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Mctor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling 12.8 30.1 135.8 19.5 | A. Chemi | cal | | | | | | - | | | | , |
| D. Hineral E. Wood F. Petroleum Storage G. Fetrochemical Operations H. Total Pracess Emissions V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Righway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling 12.8 356.0 78.7 78.7 78.7 78.7 78.7 78.7 78.7 78 | B. Food | and Agriculture | | | | | | · | | | | |
| E. Mood F. Patroleum Storage G. Petrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Oper Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling 356.0 78.7 78.7 78.7 78.7 78.7 78.7 78.7 78 | C. Metal | lurgical | 130 | | 70.1 | | | | | - interferen | | |
| F. Petroleum Storage G. Fetrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incineration 1. Area 2.1 3.0 7.3 0.1 8.1 0.6 2. Point B. Oper Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Moter Vehicles 1. Gasoline 2. Diesal B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling | | a., | | | 3U.1 | 135.8 | | 19.5 |) . | - interest of the control of the con | | · |
| G. Fetrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Kighway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling 431.0 108.8 109.5 10.1 8.1 0.6 0.1 8.1 0.6 0.1 8.1 0.6 0.7 8.1 0.7 8.1 0.6 0.7 8.1 0.7 8.1 0.6 0.7 8.1 0.7 8.1 0.6 0.7 | | Jenm Storage | 330.0 | | /0./ | | | | | *, phrough | | 1 |
| H. Total Process Emissions V. Solid Wasta Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Nighway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling | G. Petro | chemical Operations | | | | · mg/in hitanii a nigrassiii in it rama ngaliin mainsian | | | | | | |
| V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Moter Vehicles 1. Gasoline 2. Diesel B. Off-Righway Usage C. Aircraft D. Railroads E. Vessels F. Gascline Handling 2.1 3.0 7.3 0.1 8.1 0.6 2.1 3.0 7.3 0.1 8.1 0.6 4.1 0.6 4.1 0.6 4.1 0.6 4.2 0.1 8.1 0.6 4.3 0.6 4.4 0.6 4.4 0.6 4.4 0.6 4.5 0.3 0.1 8.1 0.6 4.5 0.6 4.6 0.1 8.1 0.6 4.7 0.1 8.1 0. | H. Total | Process Emissions | 368.8 | | 108.8 | 135.8 | | 19.5 | | | | |
| 1. Area 2. Point 3. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 3. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling 2.1 3.0 7.3 0.1 8.1 0.6 0.1 8.1 0.6 449.4 774.4 3504.1 5429.9 2364.5 1603.2 29.9 83.4 638.5 | | ta Disposal | | | | • | | | | | | 7.000 |
| 2. Point B. Oper Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gascline Handling | | | 21 | 3.0 | 77 | | | 0.1 | | 1 | | |
| B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Righway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling | | | ۵. ۰ | 5.0 | 1.3 | | 1 | 0.1 | 8.1 | 0.0 | | • |
| 1. Area 2. Point C. Total Solid Waste Disposal 2.1 | | | | | | | } | | | 1 | | |
| 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Righway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling | 1. A | rea | | | 1 | | } | | 1 | | | |
| V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 3. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling | 2. P | oint _ | | | | make distribution (data out or south or south | · And consider an annual limits but do not | | | | | - Barramouriane |
| A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling 6682.4 446.7 500.3 32.27 838.9 10771.8 449.4 29.9 51.76 234.3 5429.9 51.76 234.3 638.5 638.5 | C. Total | Solid Waste Disposal | 2.1 | 3.0 | 7.3 | | | 0.1 | 8.1 | 0.6 | | |
| 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling 1. Gasoline 6682.4 446.7 500.3 32.27 838.9 449.4 29.9 51.76 234.3 5429.9 51.76 234.3 638.5 638.5 | | | | • | | | | · · | | • | | ì |
| 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gascline Handling | | | 6682.4 | 500.3 | 10771 8 | 449.4 | 774 4 | 3504 1 | 5420 0 | 2361 5 | 1607 3 | : |
| B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gascline Handling | | | | 32.27 | 838.9 | 29.9 | | | 363.0 | | 1003.2 | 641 |
| C. Aircraft D. Railroads E. Vessels F. Gascline Handling | B. Off-H | ighway Usage | | | | 1 | 1. | | | | -00.5 | 1 |
| D. Railroads E. Vessels F. Gasoline Handling | C. Aircr | aft . | 431.0 | | 83.4 | | | | 638.5 | | i · | į |
| F. Gascline Handling | D. Railr | cads | | | | 1 | | | | | | • |
| G. Total Transportation 7560.1 532.57 11694.1 479.3 826.16 3738.4 6431.4 2522.5 1710.1 | | | | | | | | 1 | | | 1 | |
| 5. TOTAL TEMPORTURE 1 200.01 100.01 | F. Gascl | Ine Handling | 7560 1 | 537 67 | 11604 1 | 470 3 | 926 16 | 7770 4 | 6431 4 | 2522 5 | 1710 1 | 68: |
| | G. TOTAL | rransborracron [| COULT | 332.37 | 111734.1 | 4/9.3 | | 1 3/38.4 | V744.4 | | 1/10-1 | |
| | | | | | | | • | • | | | | |

| | | | | | | | | | | •• |
|-------------------------------|----------|---|--|---------------------------------------|----------|-------------|--|--|--|--|
| TULLUTANT: Nitrogen Oxide " | | Northwes | <u>t</u> | · · · · · · · · · · · · · · · · · · · | | 1 | | | | - |
| 6. Wood or Bark | TOTALS | | <u> </u> | | | | | | | - |
| a. Area | | | | | | | | | | |
| b. Point | | | | | | | | | | |
| 7. Combination | | | | | | Ì | | | | |
| a. Area | | |) | · | | 1 | | | | |
| b. Point | | | | | | | THE RESERVE OF THE PROPERTY OF | particular to the expensive contribution | | |
| D. Total Fuel | 9530.80 | | · | - | | Į. | | · | | |
| Combustion | | | | | <u> </u> | | | THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TW | AND STREET, ST | |
| II. Power Plants | | | | ļ | |] | | • | | |
| A. Coal | | | | | | | | > | · . | |
| B. Distillate Oil | | | | - | | | | | | |
| C. Residual Oil | | | · | | | | | · | | |
| D. Natural Gas | | | | | } | | | | | |
| E. Combination | | | | | | | parter pagas, desprésable de pagas de la company de la com | | | Same and the Control of the Control |
| F. Total Power Plants | 9866.30 | | | | | | | | | |
| III. Process Emissions | | | · | | | - | | | , | |
| A. Chemical | | | | | | | | | | |
| B. Food and Agriculture | | | | | | | | | | |
| C. Metallurgical D. Mineral | | | | | | | | | | |
| E. Wood | | | | | | | | | - | |
| F. Petroleum Storage | | | | | | 1 | | | | |
| G. Petrochemical Operations | | | | | [|] | - | | | |
| H. Total Process Emissions | 632.90 | Annual Personalis and results and a suggested the | Territoria de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition d | | | | | A STATE OF THE PARTY OF THE PAR | | AND CONTRACTOR OF THE PROPERTY |
| TV. Solid Waste Disposal | | | *************************************** | | | | | | | - THE CONTRACTOR OF STREET STREET |
| A. Incineration | | | | | | | | | | |
| I. Area | | - | | 1 | | | | | | |
| 2. Point | | | | | | | | | | • |
| B. Open Burning | | | | | | | | | | |
| 1. Area | | | | | | | | | | |
| 2. Point | 0.7 0.0 | | | | | | A second contract of the contr | n kanananan ya kanana | | entilaten mannen helita man en en en en en en en en en en en en en |
| C. Total Solid Waste Disposal | 21.20 | | | <u> </u> | | | | | | |
| V. Transportation | | | | ! | • | ler v | | | | |
| A. Motor Vehicles 1. Gasoline | | | | 1 | | ļ | | | | |
| 1. Gasoline 2. Diesel | İ | | | | | | | | 1 | |
| B. Off-Highway Usage | - | | | | | | | | * | |
| C. Aircraft | | | - in | | | | | | | |
| D. Railroads | | | | | | | | | | |
| E. Vessels | | | | | | | | | | |
| F. Gasoline Handling | | | | | | İ | | | | |
| G. Total Transportation | 36178.13 | | | | | | | | | |

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| 200 | EUTANT: Nitrogen Oxide | REGION: | Northwest | | | , | | - | | | |
|-----|--------------------------------|----------|----------------|----------|---------|---------|---------|-----------|-----------|---------|----------------------|
| | * | Bay | Calhoun | Escambia | Gulf | Holmes_ | Jackson | Okaleosa | SantaRosa | Walton | Washington |
| /1 | Miscellaneous Area Sources | | | | | | | | | | 1.8. 7.2. |
| | A. Forest Fires | 17.3 | 13.3 | 32.7 | 13.7 | 10.8 | 21.0 | 47.2 | 51.1 | 27.0 | 77.0 |
| | B. Agricultural, Silvicultural | 23.6 | 18.1 | 67.9 | 18.7 | 25.7 | 49.8 | 97.8 | 105.9 | 23.0 | 12.9 |
| | and Landclearing Burning | | | , , | | 20., | 73.0 | 37.0 | 105.9 | 54.7 | 30.6 |
| | C. Grove Protection | | | | | | | | | - | |
| | D. Total Miscellaneous | 40.9 | 31.4 | 100.6 | 32.4 | 36.5 | 70.8 | 145.0_ | 157.0 | 77.7 | 43.5 |
| 11 | Grand Total | 11379.44 | 582.46 | 22928.54 | 2475.06 | 880.98 | 5642.56 | 6782 - 16 | 3724.66 | 1819.53 | 749.9 |
| | A. Area | 7770.14 | 582.46 0:00 | 18723:74 | 532.86 | 880.98 | 3891.36 | 6782.16 | | 1819.53 | 749.9 |
| | B. Point | 3609.30 | 0.00 | 10725.80 | 1942.20 | 0.00 | 1751.20 | 0.00 | 9 70 . 70 | 0.00 | 10.6 |

| 5 0. | LUTAUT: Nitrogen Oxide . | REGION: NO | rthwest | | | g | Constant of the control of the contr | | • · | |
|-------------|--|----------------------|--|--|--|---|--|--|----------------------|-------------------|
| ΛΙ | Miscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection | TOTALS | | | | | | | | |
| /II | D. Total Miscellaneous Grand Total | 735.80 | | | | | A Libraria Bar San Andrews | | | |
| | A. Area B. Point | 37966.13 18999.20 | and the second section of the section of the second section of the section of the second section of the section of th | The state of the s | en en en en en en en en en en en en en e | | Annual consistent contraction from the contraction was a | Annual and the Control of the Contro | in the second second | The second second |
| | | | | , | | | | | | , |

EMISSION INVENTORY SUMMARY

Northeast Florida Interstate AQCR

(12

| POLLUTANT: Particulate | F | EGION: No | ortheast | | | | | gan makan i maraya wasansa basa gan y | prije vant aparengan ar allege van species and a | |
|--|--|--|----------|--------|----------|-------|--------|--|--|--|
| I. Fuel Combustion | Alachua | Baker | Bradford | Clay | Columbia | Dixie | Duva1_ | Flagler | Franklin | Gadsden |
| A. Residential and Institutional Fuel 1. Coal or Coke a. Area | | : | | | | | | | | • |
| b. Point 2. Distillate Oil | A CONTRACTOR OF THE CONTRACTOR | | | ٠ م | | | | | | 146.0 |
| a. Area b. Point 3. Residual Oil | 40.4 | 4.29 | 7.0 | 10.28 | 8.45 | 2.0 | 268.1 | 1.76 | 2.37 | 10.9 |
| a. Area b. Point 4. Natural Gas* | 3.24 | 0.29 | 0.45 | 1.0 | 0.78 | 0.17 | 16.3 | 0.14 | 0.22 | 1.2 |
| a. Area b. Point | 2.82 | 0.25 | 0.39 | 0.90 | 0.70 | 0.12 | 14.25 | 0.12 | 0.19 | 1.06 |
| 5. Combination a. Area b. Point | | | | | 7 | : | | and the second s | | |
| B. Commercial 1. Distillate Oil a. Area | 2.5 | 0.34 | 0.6 | 0.6 | 0.04 | 0.12 | 23.1 | 0.11 | 0.14 | 0.23 |
| b. Point2. Residual Oil | | | | | | | | | - All Andrews | |
| a. Area b. Point C. Industrial Fuel | | | | | | | | | | |
| 1. Coal or Coke a. Area b. Point | | | | | | | | | | |
| 2. Distillate Oil a. Area | | | | • | | | 12.0 | | | |
| b. Point3. Residual Oila. Area | | | | 4.72 | | | 21.7 | 3.88 | | |
| b. Point 4. Natural Gas | | | | • | | | 73.5 | | | |
| a. Area b. Point 5. Process Gas | | | | • | | | | | | |
| a. Area b. Point | | and the second s | | | | | | | | A STATE OF THE STA |

^{*} Includes Commercial Uses

| POL | LUTA | M: Particulate | F | EGION: Nor | theast | (Creative Special Spe | | | - | gra d'Addrillana inscripa dell'assistano dilano annata | grana ann mòrr iomanian maiste bhall stainn iom | y - c sea - an in in it is a sea in |
|-----|------|--|-----------|------------|-----------|--|-------|----------|---------|--|---|---|
| I. | | l Combustion | Gilchrist | Hamilton . | Jefferson | Lafayette | Leon_ | Liberty | Madison | Marion | Nassau | Putnam |
| | A. | Residential and Institutional Fuel 1. Coal or Coke | | | | | | | | | | A |
| | | a. Area | | | | | | | | | | |
| | | b. Point 2. Distillate Oil | | | | | | <u> </u> | | | | |
| ٠. | • · | a. Area b. Point | 1.33 | 2.4 | 3.1 | 1.0 | 37.9 | 0.8 | 3.05 | 24.17 | 8.7 | 15.8 |
| | | 3. Residual Oil | 0.11 | 2 24 | | | | े | | | | |
| 11. | | a. Area b. Point | 0.11 | 0.24 | 0.27 | 0.09 | 3.19 | 0.1 | 0.4 | 2.13 | 0.64 | 1.12 |
| | | 4. Natural Gas* a. Area | 0.10 | 0.21 | 0.24 | 0.08 | 2.78 | 0.09 | 0.76 | 1 06 | 0.56 | |
| | 4 | b. Point | | 4.51 | V.44 | 4.00 | 4./3 | 0.09 | 0.36 | 1.86 | 0.56 | 0.98 |
| | | 5. Combination a. Area | | | | | 26.1 | | | | | |
| | 50 | o. Point Commercial | | | | | | | | | | |
| | *** | 1. Distillate Oil | | | | | | | | | | |
| | | a. Area b. Point | 0.07 | 0.09 | 0.17 | 0.05 | 2.13 | | 0.12 | 1.4 | 0.61 | 1.15 |
| | | 2. Residual Oil a. Area | | | | | | | | | | |
| P | | b. Point | | | | | | | | | | |
| 30 | c. | Industrial Fuel 1. Coal or Coke | | ** | | | | | | | | |
| , | | a. Area | | | | | | | | | | |
| | | b. Point2. Distillate Oil | | | | * | | | | | | |
| : . | | a. Area b. Point | | 1 | | | | | | | | |
| | | 3. Residual Oil | | | | | | | | | | |
| · | | a. Area b. Point | | | | | | | | | 3.0 | 377.5 |
| | | 4. Natural Gas a. Area | | | | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | | | | | | |
| | 4. | b. Point 5. Process Gas | | | | | | | | | | |
| | | a. Area | | | | | | | | | | |
| * | | b. Point | | | | | 1 | 1 | 1 | | 1 | |

^{*} Includes Commercial Uses

| POLITANT: Particulate | R | EGION: Nor | theast | e and a second of the first | gran debug and make the continues and the | | | ili. Geografia | | · |
|--|-----------|------------|--------|-----------------------------|---|--|--|-------------------|--------|---|
| I. Fuel Combustion | St. Johns | Suwannee | Taylor | Union | Wakulla | | | | | |
| A. Residential and Institutional Fuel 1. Coal or Coke a. Area b. Point | | | | | | | | | | |
| 2. Distillate Oil a. Area b. Point | 16.3 | 11.5 | 4.4 | 2.6 | 2.0 | The state of the s | - Control of the cont | | | |
| 3. Residual Oil a. Area b. Point | 0.95 | 0.48 | 0.42 | 0.25 | 0.19 | | | | | |
| 4. Natural Gas* a. Area b. Point | 0.83 | 0.42 | 0.37 | 0.22 | 0.17 | A Consumpt relation of the consumpt relation o | | | | |
| 5. Combination a. Area b. Point | | | • . | | | | emelonização propriedo de la compressión de la c | | | |
| B. Commercial 1. Distillate Oil a. Area b. Point | 1.45 | 1.28 | 0.19 | 0.1 | 0.08 | Warring and a particular state of the state | | | | |
| 2. Residual Oil a. Area | | - | | | | The state of the s | | | | |
| H C. Industrial Fuel 1. Coal or Coke a. Area | | | | | 2 | e rivere productive programmes | After the second | | : | |
| b. Point 2. Distillate Oil a. Area b. Point | | | _ | | | | | - | | |
| 3. Residual Oil a. Area b. Point | | | | | 58.9 | mental up for steps by the step by the steps by the step by | mi, remineration | | • | |
| 4. Natural Gas a. Area b. Point | | | ; ** | | | | Tax (manager regard to redding 1 that | | | |
| 5. Process Gas a. Area b. Point | | | | | | | | - | ! ! | |

^{*} Includes Commorcial Uses

| a. Area b. Point b. Foint consistent b. Foint b. Foint consistent b. Foint b. Total Fuel consistent b. Total Fuel consistent b. Total Fuel consistent b. Total Fuel consistent b. Foint b. Total Fuel consistent b. Foint b | | | | | | | | | | | | |
|--|----------|--|---|--|---------------------------|--|-------------|--|-----------------|---------|--|-------------|
| Alachus Bater Bradford Clay Columbia Bixie Duvil Flagier Franklin Gades Alachus b. Foint 33.8 277.5 287.83 4.41 2900.05 6.01 2.92 253 2468.8 5. Point B. Food Franklin Gades Columbia Bixie Duvil Flagier Franklin Gades Columbia B. Flagier Franklin Gades Columbia | | • | | • | * | | | F | | | | |
| 6. Wood or Bark | | • | | | | | | | | | | |
| A Color Sark Alachua Saker Bradford Clay Columbia Dixie Duvil Flagier Franklin Gades Clay Columbia Dixie Duvil Flagier Franklin Gades Clay Columbia Clay Columbia Dixie Duvil Flagier Franklin Gades Clay Columbia Clay Columbia Clay Columbia Clay | | | | | | , | | | | | | |
| 6. Wood or Bark a. Area b. Point 7. Combination A. Area b. Point 7. Combination A. Area Combination A. Area A. | | Part and | | Northeas | t | | • | | | | | |
| 6. Wood or Bark a. Alea b. Point 7. Combination b. Point D. Total Fuel B. Point B. Point B. Point B. Combination B. Point B. Point B. Point B. Combination B. Point B. Point B. Combination B. Point B. Combination B. Point B. Combination B. Point B. Combination B. Point B. Combination B. Point B. Pool Sand Agriculture B. Combination B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Agriculture B. Pool Sand Berry | 1. | • | | Baker | Bradford | Clay | Columbia | Dixie | Duval | Flagler | Franklin | Gadsde |
| D. Total ruel Cembustion II. Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas F. Combination F. Total Fower Plants A. Charload B. Distillate Oil C. Residual Oil D. Natural Gas F. Combination F. Total Fower Plants A. Charload B. Distillate Oil C. Residual Oil D. Natural Gas F. Combination F. Total Fower Plants P. Fotal Fower Plants A. Charload B. Pierral Salons A. Charload B. Distillate Oil C. Residual Oil D. Natural Gas F. Fotal Fower Plants A. Charload B. Pierral Salons A. Charload B. Petroload Storage G. Fetrochemical Operations H. Total Process Emissions F. Fetroload Storage G. Fetrochemical Operations H. Total Process Emissions F. Fotal Solid Maste Disposal F. Fotal Solid Maste Disposal F. Petroload A. Incheratic A. Incheratic C. Total Solid Maste Disposal J. Area A. Fotal C. Total Solid Maste Disposal J. Area A. Fotal C. Total Solid Maste Disposal J. Area A. Fotal A. Incheratic A. National A. National A. National A. National A. National A. National A. National A. National A. National A. National A. National B. Discoll B. Dis | | a. Area b. Point 7. Combination a. Area | | - | | | | | 3:4 | | | 94.5 |
| Combustion | | | 82:76 | 5.17 | 8.44 | 17.5 | 287.83 | 4.41 | | 6.01 | 2.92 | 253. |
| A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Fower Plants F. Total Function F. Ford and Agriculture C. Metallurgical D. Mineral F. Process Emissions A. Chamical E. Peed and Agriculture C. Metallurgical C. Metallurgical F. Process Emissions A. Chamical E. Peed and Agriculture C. Metallurgical F. Peer Column Storage G. Petrochemical Operations H. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funcess Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Emissions F. Total Funces Funces F. Total Funces Funces F. Total Funces Funces F. Total Funces Funces F. Casoline F. Casoline F. Casoline F. Casoline Handling F. Casoline Handling F. Casoline Handling F. Total Trensportation F. Total Funces F. Total Funces F. Total Funces F. Total Funces F. | -ger vit | Combustion | - | - | | | | | | | | 200. |
| E. Combination 92.7 1.85 607.2 F. Total Fower Plants 92.7 1.85 607.2 F. Total Fower Plants 92.7 1.85 607.2 F. Total Fower Plants 92.7 1.85 607.2 F. Total Fower Plants 92.7 1.85 607.2 F. Forecass Emissions 8. Chamical 8. Food and Agriculture 709.96 | ال الم | A. Coal B. Distillate Oil C. Residual Oil | engy england and a second a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second | | 1.85 | | | · • | 607.2 | | - | |
| ### FILE Process Emissions ### A. Chemical ### B. Food and Agriculture C. Metallurgical D. Mineral F. Food and Agriculture C. Metallurgical D. Mineral F. Febroleum Storage G. Petroleum Storage G. Pe | | E. Combination | ************ | and journey groups and a supplier of the Control of Special Control of the Contro | | | | | - | | | |
| A. Chamical B. Foca and Agriculture C. Metallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions TV. Solid Waste Disposal A. Incineration 1. Area 2. Point C. Total Solid Waste Disposal 15.2 19.2 1.5 45.4 306.1 144.0 T. Tansportation A. Motor Vehicles 1. Gasoline 2. Diesel D. Gasoline D. Gasoline D. Gasoline D. Gasoline D. Rairoads D. Rairoads D. Rairoads D. Rairoads D. Railroads D. Railroads D. Gasoline 11.1 D. Rairoads D. Railroa | · | | 92.7 | | 1.85 | | | | 607.2 | | | 1 |
| D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions T12.77 2427.8 4659.2 1500. IV. Solid Waste Disposal A. Incineration I. Area 2. Point B. Ogen Burning 1. Area 2. Point C. Total Solid Waste Disposal 13.2 19.2 1.5 45.4 306.1 144.0 222.4 27.8 22.4 2. Point C. Total Solid Waste Disposal 13.2 19.2 1.5 45.4 306.1 144.0 1. Transportation A. Motor Vehicles 1. Gasoline 221.8 23.0 46.4 39.7 87.3 20.7 992.4 10.7 20.7 45. 2. Diesel 355.3 3.66 7.38 6.31 13.89 3.3 157.99 1.7 3.28 7. C. Aircraft D. Railroads 9.9 1.1 29.9 1.1 296.4 13.3 296.4 13.4 296.4 13.4 296.4 13.4 25.98 65. Total Transportation 267.0 26.66 54.88 46.01 101.19 24.0 3023.16 12.4 23.98 65. | | A. Chemical B. Food and Agriculture C. Metallurgical | 2.81 | | | | | • | | | | 14.2 |
| H. Total Process Emissions 712.77 2427.8 4659.2 1500. Solid Waste Disposal A. Incineration 1. Area 2. Point 2. | | E. Wood T. Petroleum Storage | 709.96 | | | 2386.8 | | | 917.0 3581.5 | | | 1486.5 |
| TV. Solid Waste Disposal A. Incineration 1. Area 13.2 19.2 1.5 2.1 83.7 144.0 1. Area 2. Point B. Ogen Burning 1. Area 2. Point C. Total Solid Waste Disposal 13.2 19.2 1.5 45.4 306.1 144.0 1. V. Transportation A. Motor Vehicles 1. Gasoline 221.8 23.0 46.4 39.7 87.3 20.7 992.4 10.7 20.7 45. 2. Diesel 35.3 3.66 7.38 6.31 13.89 3.3 157.99 1.7 3.28 7. 2. Diesel 2. Aircraft D. Railroads 9.9 1.1 1. 2.1 | | H. Total Process Emissions | 712.77 | | | 2427.8 | | *** | 4659.2 | | | 1500.7 |
| 1. Area 2. Foint 222.4 2. Foint 2. | C-32 | A. Incineration 1. Area 2. Point | 13.2 | | 19.2 | 1.5 | 2.1 43.3 | | 83.7 | 144.0 | | 1.9 |
| C. Total Solid Waste Disposal 13.2 19.2 1.5 45.4 306.1- 144.0 1. V. Transportation A. Motor Vehicles 1. Gasoline 221.8 23.0 46.4 39.7 87.3 20.7 992.4 10.7 20.7 45. 2. Diesel 35.3 3.66 7.38 6.31 13.89 3.3 157.99 1.7 3.28 7. C. Aircraft D. Railroads E. Vessels F. Gasoline Handling G. Total Transportation 267.0 26.66 54.88 46.01 101.19 24.0 3023.16 12.4 23.98 65. | | I. Area | | | , | , | | | 222.4 | | | |
| A. Motor Vehicles 1. Gasoline 2. Diesel 35.3 3.66 7.38 6.31 13.89 3.3 157.99 1.7 3.28 7. C. Aircraft D. Railroads E. Vessels F. Gasoline Handling G. Total Transportation 221.8 23.0 46.4 39.7 87.3 20.7 992.4 10.7 20.7 45. 35.3 3.66 7.38 6.31 13.89 3.3 157.99 1.7 3.28 7. 1542.94 296.4 296.4 33.43 13.89 3.3 43 154.94 296.4 13. | | C. Total Solid Waste Disposal | 13.2 | | 19.2 | 1.5 | 45.4 | - Try september provide an income with the state of the september of the s | 306.1- | 144.0 | | 1.0 |
| C. Aircraft D. Railroads F. Vessels F. Gascline Handling G. Total Transportation 9.9 1.1 1542.94 296.4 33.43 13. 1542.94 296.4 101.19 24.0 3023.16 12.4 23.98 65. | | A. Motor Vehicles 1. Gasoline 2. Diesel | | | i | : | ł i | | 1 | 3 | 1 | 45.3 7.2 |
| G. Total Transportation 267.0 26.66 54.88 46.01 101.19 24.0 3023.16 12.4 23.98 65. | | C. Aircraft D. Railroads E. Vessels | 9.9 | • | 1.1 | Appropriate the state of the st | | • . | 296.4 | | Tar Manual of the Control of the Con | 13.1 |
| | • | | 267.0 | 26.66 | 54.88 | 46.01 | 101.19 | 24.0 | 3023.16 | 12.4 | 23.98 | 65.6 |
| | | · · | | | parameter T Substitutions | | • | | | | | |
| | | | | | | | | | | | | |
| | | | • | | • | | | | • | • | | |
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| I DLEUT! | ANT: Particulate | REGION: | Northeas | t | | | | | | | |
| | 6. Wood or Bark | | | | Lafayette | Leon_ | Liberty | Madison_ | Marion | Nassau | Pı |
| | a. Area | | | _ | | | | | | | |
| | b. Point 7. Combination | | | , | | | | | | | ļ |
| | a. Area | | • | - | | | | • | | 3040.0 | |
| 7 | b. Point Total Fuel | 1.61 | 2.94 | 3.78 | 1,22 | 72.1 | 0.99 | 3.93 | 29.56 | 1 | |
| •• | Combustion | | | 3.79 | 1.24 | | 1.23 | 7.32 | 29.30 | 3053.51 | <u> </u> |
| II. Pov | ver Plants · | | | | | | | | 1., | | |
| В. | Distillate Oil | | • . | · | | | | | | : | |
| c. | Residual Oil Natural Gas | | | · | | | | | | | |
| E. | Combination | | ogan vectoraring a Colorida Colorida Colorida Colorida Colorida Colorida Colorida Colorida Colorida Colorida C | | | 12.99 | - main regional gauge particular in the second of the seco | AND DESCRIPTION OF THE PERSON | | - | ļ |
| F. | Total Power Plants | or Colombian contigues and the contigues of the contigues | thank to refuse 25 more risk of the College of the | | - | 12.99 | | | | | - |
| A. | Chemical | | | | | | | | 1095.0 | | 1 |
| B. | Food and Agriculture Matallurgical | | | | | | | | 149.3 | 54.5 | |
| D. | Mineral | | • 1 | | | 32.5 | | | 372 7 | | |
| E. F. | Wood Petroleum Storage | | | · | . } | 2,10 | | | 172.7 | 2005.0 | 14: |
| Ğ. | Fetrochemical Operations | | and production construction of the second constr | w tr w wyw drifer dayphiller (daybeller entre | | | | | | | |
| H. IV. Sol | Total Process Emissions id Waste Disposal | | mineral distribution or a particular production of the second | | | 32.5 | The second secon | E | 1417.0 | 2059.5 | 14] |
| A. | Incineration | W | | | | | | | | | 1 |
| | 1. Area. 2. Point | - | 10.0 | · | - | 15.8 | | | 11.9 | 0.6 | |
| В. | Open Burning | | , | | | | | | | |] |
| • | 1. Area 2. Point | | | ~ | | | | | | | 1 |
| c. | Total Solid Waste Disposal | | 10.0 | | | 15.8 | Experience analysis in management is not to the | 10 to | 11.9. | 0.6 | |
| V. Tra | msportation Motor Vehicles | | The second secon | | | | | | | | |
| ~ . | I. Gasoline . | 8.5 | 48.2 | 17.0 | 5.9 | 197.0 | 4.0 | 43.6 | 205.0 | 52.9 | |
| | 2. Diesel | 1.35 | 7.64 | 2.68 | 0.93 | 31.35 | 0.62 | 6.93 | 32.63 | 8.41 | |
| 5 | Off-Wichman U | | | | 1 | | 1 | | | | į |
| .в. С. | Off-Highway Usage | | | | | 61.0 | | 4 | | 1 | i |
| c. D. | Off-Highway Usage Aircraft Railroads | | | | . , | 61.0 | | | 2.8 | 0.07 | |
| c. | Off-Highway Usage Aircraft Railroads | 9.85 | | | | 61.0 | | -de-Control | 2.8 | 0.07 | |

| | | | | | N. | | | | | |
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| | | | | | • | | | | | |
| POLLUTANT: Particulate | REGION: | Northeas | t | | 4.4 | | • | | | •• |
| | St. Johns | Suwannee | Taylor | Union | Wakulla_ | TOTALS | | | | |
| 6. Wood or Bark | | | | | | | | | | 1 |
| a. Area b. Point | | | [| , - | | | | Ì | | |
| 7. Combination | | | | | | | | | - The state of the | - |
| a. Area | Ì | 19.0 | 1677.8 | | | | • . | | | - |
| b. Point D. Total Fuel | 19.53 | 32.68 | 1683.18 | 7 17 | 61.34 | 0055 00 | The state of the s | | | |
| Combustion | 19.55 | 34.00 1 | 1003.18 | 3.17 | 01.34 | 8935.82 | A CONTRACTOR OF THE PROPERTY O | | | |
| II. Power Plants . | | | | | + | | | | | 1 |
| A. Coal | i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de | oy are | | | | and the second s | ' | , | | • |
| B. Distillate Oil C. Residual Oil | and the same of th | | : | . 6 | | | | | | |
| D. Natural Gas | 73.0 l | and the second s | - Levelle, replace | | 7.0 | | | | Lamenta Company | |
| E. Combination | 73.0 | or extension description (1) L. T. I'l Manuscher Annahamine semantic | - comprehendational systems commenced in the second | alectrication and the second s | 10.9 | | randonas provinciros comunicados portas (h. p. 4-15) y masterir ran | and the second s | - | |
| F. Total Power Plants III. Process Emissions | Carrente Anna Ca | And the property of the second second second second second second second second second second second second se | A CONTRACTOR OF THE PROPERTY O | | TO 3 | 879.54 | engline compare of the particular state of the state of the same o | | | - |
| A. Chemical | | · · | | | | | | | - | 1 |
| B. Food and Agriculture | | Agent and a second a second and a second and a second and a second and a second and | | | | et code | | ` | | |
| C. Metallurgical D. Mineral | - | 382.0 | i i i i i i i i i i i i i i i i i i i | | 5.4 | | | | | |
| E. Wood | | | 7630.0 | | | | | | | |
| | à muca que | | | | | | منيد | 1 | Î. | |
| G. Petrochemical Operations H. Total Process Emissions | commence of the second of the | 382.0 | 7650.0 | ermaniyatiya erigeyeri biriyye terapeyya anesinagan a | 5.4 | 34946.87 | | | | _ |
| C Petroleum Storage G. Petrochemical Operations H. Total Process Emissions T1. Solid Waste Disposal | watered to suppress special control of suppress of sup | And the second s | | THE CHARLES COMMENTER OF THE CONTRACT OF THE C | | 34340.87 | According to the second | AND THE RESIDENCE OF THE PARTY | Charles and the state of the st | ar have y de Distriction (respirator) Affres de se |
| A. Incineration | | | - 2 22 | | | · · | 5 | | | • |
| 1. Area | neg (mentale de la constante de la constante de la constante de la constante de la constante de la constante de | 2.8 | 0.82 172.0 | | • | | YELVER | | } · | |
| 2. Point B. Open Burning | as portion of the | | 3.72.0 | | | - Action | | | | i . |
| 1. Area | | | | | | approximate and the second sec | | | | |
| 2. Point | | | 170 00 | Salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah sa | | 017 63 | | 1 | | - |
| C. Total Solid Waste Disposal V. Transportation | Materiales and manders of this forming the man | 2.8 | 172.82 | gravity and the state of the st | The Sales and to apply a series of respectively. | 913.52 | - Indiana de Californi de Maria de Californi de Californi de Maria de Californi de | ***************************** | | |
| A. Motor Vehicles | Principal | | | | | £ | | | Approximately and | į. |
| 1. Gasolinė | 82.8 13.18 | 42.0 6.69 | 55.4 | 18.7 | 12.1 |] | | | | |
| 2. Diesel B. Off-Highway Usage | 13.18 | 0.09 | 8.82 | 4.97 | 1.93 | · . | | | | • |
| C. Aircraft | | | | . , | | | | | | : |
| D. Railroads | 3 | 0.02 | 0.29 | | - | | | 1. | | |
| F. Vessels | | | | | | | | | | • |
| F. Gasoline Handling G. Total Transportation | 95.98 | 48.71 | 63.51 | 21.67 | 14.03 | 4714.49 | | | 1 | <u></u> |
| a. ideal itansportation | | | | | | 1 4/14.49 | and the second s | | del Brother, administrativo del company del company del company del company del company del company del company | - |
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| | | | | , , | | | | · • | | | |
| | 27: Particulate | REGION: | Northeast | | | | | | | | |
| . *** . | 002220000000000000000000000000000000000 | Alachua | Baker | Bradford | Clay_ | Columbia | Dixie | Duval | Flagler | Franklin | Gadsdan |
| A. B. | cellaneous Area Sources Forest Fires Agricultural, Silvicultural | 272.2 1000.0 | 96.6 477.95 | 86.3 317.0 | 539.0 484.9 | 126.0 623.4 | 57.8 120.5 | 682.8 614.4 | 144.3 742.48 | 106.4 145.1 | 42.5 603.4 |
| c. | and Landolearing Burning Grove Protection | | | | | | | • | | | |
| D. | Total Miscellaneous | 1272.2 | 574.55 | 403.3 | 1023.9 | 749.4 | 178.3 | 1297,1 | 886.8 | 251.5 | 645.9 |
| Gra | nd Total | 2440.43 | 606.38 | 487.67 | 3515.71 | 1183.82 | 206.71 | 12792.91 | 1049.21 | 278.4 | 2467.99 |
| A. B. | Area Point | 1601.36 839.27 | 60 6 .38 0.00 | | 1038.91 2427.80 | 863.02 320.80 | 206:33 | 49.85:25 7808:46 | 985-84 | 278.40 0.00 | 726.79 1741.20 |

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| 20. ° | SUTANT: Particulate | | Northeast | | E The control of the | and the second s | | Commence of the Control of the Contr | \$ 1.2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | · · · · · · · · · · · · · · · · · · · | |
|-------|--|--------|---------------|---------------|---|--|----------------|--|--|---------------------------------------|--------------------|
| VI | Miscellaneous Area Sources | | | Jefferson | (Lafayette) | Leon | Liberty | Madison | Marion | . Nassau | , Eutaam- |
| | A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning | 80.9 | 84.0 415.6 | 48.3 685.7 | 45.3 94.4 | 54.0 768.0 | 166.5 227.0 | 60.3 125.8 | 368.5 979.2 | 574.96 517.3 | 853.5 |
| | C. Grove Protection | | 1 | 1 | 1 | | | | 612 | 1 | 120 |
| | D. Total Miscellaneous | 295.8 | 499.6 | 733.0 | 139.7 | 872.0 | 393.5 | 186.1 | 1959.7 | 1092,26 | |
| | Grand Total | 307.26 | | 756.46 | 147.75 | | | 240.56 | 3658.59 | | |
| | A. Area B. Point | 307.26 | | 756.46 | 147.75 | 1 | | 240.56 0.00 | 1 | 1167.75 | 1305.1 114723.4 |

POULUPANT: Particulate

/I Miscellaneous Area Sources
A. Forest Fires
B. Agricultural, Silvicultural
and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
II Grand Total

A. Area

B. Point

| | REGION: 1 | urtheast | - | | | | | | |
|-----|-----------------|----------------|---------------|---------------|---------------|----------|------|---|--|
| . [| St. Johns | Suwannee | Taylor_ | Union | Wakulla | TOTALS | şin | | |
| al | 176.4 908.14 | 113.4 561.1 | 88.0 183.4 | 73.0 268.2 | 48.3 685.7 | | | | |
| | 1084.54 | | 271.4 | 341.2 | 734.0 | 17716.25 | | | The second secon |
| | 1273.05 | 1140.69 | 9840.91 | 366.04 | 825.67 | 68106.63 | | | |
| | 1200.05 | 758.69 | 341.11 | 366.04 | 750.47 | 23507.91 | | | |
| | 73.00 | 382.00 | 9499.80 | 0.00 | | 44598 77 | | · | |

FULLUTANT: Sulfur Oxides

REGION: Northeast

| ī. | | Combustion | Alachua | Baker | Bradford | Clay | Columbia | Dixio | Duval | Flagler | Fran'lin | Gedsden |
|-------|---------------------------------------|----------------------------------|---------|-------|----------|-------|----------|-------|----------|---------|----------|---------|
| | | esidential and nstitutional Fuel | | | | | | | | | | |
| | 1. | . Coal or Coke | | | | • | | | | | | |
| | • | a. Area b. Point | | | | | | | | | | 1080.0 |
| | 2. | . Distillate Oil a. Area | 29.08 | 3.07 | 5.02 | 8.17 | 6.09 | 1.48 | 192.7 | 1.25 | 1.85 | 7.83 |
| . 1: | | e. Point | | | | 0,1 | 0.00 | | ***** | 1 | 1.05 | ,,,,, |
| | 3, | . Residual Oil a. Area | 93.26 | 8.23 | 13.02 | 28.54 | 22.5 | 4.9 | 470.3 | 3.97 | 6.3 | 34.8 |
| 1 | | o. Point | | | | | | | | | | |
| | 4. | . Natural Gas* a. Area | 0.09 | 0.01 | 0.01 | 0.03 | 0.02 | | 0.45 | | 0.01 | 0.03 |
| | æ | b. Point | | | | | | | | | | |
| | Э, | . Combination a. Area | | | | | | | | | | |
| † | | b. Point ormarcial | | | | | | | | | | 4, 1 |
| | 1. | . Distillate Oil | 1 10 | 0.36 | 0.00 | | | | | | | |
| | | a. Area b. Point | 1.19 | 0.16 | 0.28 | 0.28 | 0.19 | 0.06 | 11.09 | 0.05 | 0.07 | 0.11 |
| | 2. | . Residual Oil | | | | , | | | | | | |
| _ | | a. Area b. Point | | | | | | | | | | |
| 7 | C. Ir | dustrial Fuel | | | | | | | | | | |
| 38 | 1. | . Coal or Coke a. Area | | | | | | | | | | |
| | • | o. Point | | | | | | | | | | |
| | 2. | . Distillate Oil a. Area | | | | | | | | | | |
| | 3 | b. Point Residual Oil | | | | • | | | | | | |
| | . | a. Area | | | | | | | 125.4 | | | |
| | 4. | b. Point Natural Gas | | | | 52.0 | | | 710.0 | 67.0 | | |
| - 74 | | a. Area | | | | | | | | | | |
| | 5. | b. Point Process Gas | | | | | | , , | | | | |
| | · · · · · · · · · · · · · · · · · · · | a. Area | | | | | | | | | | |
| 11, 1 | , M | b. Point | | | <u> </u> | | 1 | 1 | <u> </u> | <u></u> | | |

^{7 *} Includes Commorcial Uses

| P.1. | LUT | ANT: | Sulfur Oxides | | EGION: Nor | theast | e eret synsimisynflikkasjon sykletin slamma vilket Marian - attert | | | | | _ | |
|----------|---------------------------------------|-------|---------------------------------|-----------|------------|------------|--|--------|-----------|----------|----------|---------|--------|
| I. | Fu | | mbustion | Gilchrist | Hemilton_ | Jefferson | Lafayette | _Leon_ | _Liberty_ | Madison_ | _Marion_ | Nassau | Putnam |
| | A. | | idential and titutional Fuel | | | | | | | | | | |
| | | | Coal or Coke | | | | | | | | | | |
| | 1 | | a. Area b. Point | | | | | | | | | | |
| | . ' | 2. | Distillate Oil. a. Area | 0.91 | 1.73 | 2.28 | 0.71 | 27.24 | 0.63 | 2.89 | 18.1 | 6.25 | 11.3 |
| | ** | - 1 | b. Point | | *** | , , , , , | | #1.49 | V.02 | 2.03 | **** | V . 4-3 | 1 |
| | | 3. | Residual Oil a. Area | 3.16 | 6.9 | 7.8 | 2.57 | 91,73 | 3.0 | 1.2 | 61.45 | 18.36 | 32.3 |
| | | 4. | b. Point | | | | | | | | | | |
| | | 情中 | a. Area | | 0.01 | 0.01 | | 0.09 | | 0.01 | 0.06 | 0.02 | 0.03 |
| | | 5. | b. Point Combination | | | | | | | | | | |
| | | | a. Area b. Point | | | | | 261.4 | | | | | |
| | 3 | | mercial | | | | | | | | | | |
| 1 | | 1. | Distillate Oil a. Area | 0.03 | 0.04 | 0.08 | 0.02 | 1.02 | | 0.06 | 0.67 | 0.29 | 0.55 |
| | | 2. | b. Point Residual Oil | | | | | | | | | | |
| | | ** | a. Area | | | | | | | | | | |
| Q | c | . Ind | b. Point ustrial Fuel | | | | | | | | | | |
| <u></u> | | 1. | | | | | | | | | | | |
| | | | b. Point | | | | | | | | | | |
| | : | 2. | Distillate Oil a. Area | | | | | | | | | | |
| | | 3. | b. Point Residual Oil | | | ₩. / #. | | | | | | | |
| | | *** | a. Area | | 9.2 | | | | | | | | |
| | | 4. | b. Point Natural Gas | • | | | | | | | | 42.0 | 6130.0 |
| | | | a. Area b. Point | | | | | | | | | | |
| | e e e e e e e e e e e e e e e e e e e | 5. | Process Gas | | | | • | | | | | | |
| | पहारी - | - | a. Area | | | | | | 1-1- | | | | |

^{*} Includes Commercial Uses

| P LUTANTA Sulfur Oxides | R | EGION: Nor | theast | بيد جد محالت الاستينيان بالمالية في المحالت به ووزارة إلى | | | and the second section of the section of the | | |
|-------------------------------------|-----------|------------|----------|---|---------|----------|---|----------|------|
| I. Fuel Combustion | St. Johns | Suwannee | _Taylor_ | linian | Makulla | <u> </u> | | | |
| A. Residential and | | | ***** | | | | | | |
| Institutional Fuel 1. Coal or Coke | | | | | | | | | |
| a. Area b. Point | | | | | | | | | |
| 2. Distillate Oil | | | | | | | | | |
| a. Area b. Point | 11.76 | 11.27 | 3.21 | 1.82 | 1.45 | | | | * 1 |
| 3. Residual Oil | | | | | 1 | | | | |
| a: Area b: Point | 27.35 | 13.85 | 12.14 | 7.22 | 5.6 | | | | |
| 4. Natural Gas? | | | | | | | | | |
| a: Area b. Point | 0.93 | 0.01 | 0.01 | 0.01 | 0.01 | | | | |
| 5. Combination | | | | | | | | | |
| a: Area b: Point | | | | | | | | | |
| B. Commercial | | | | | | | | | |
| l. Distiliate Oil a. Area | 0.7 | 0.61 | 0.09 | 0.05 | 0.04 | | | | |
| b. Polit | | | | | | | | | |
| 2. Residual Oil a. Area | 4.00 | | | | | | | | |
| D. Point | | | | | | | | | |
| C. Industrial Fuel 1. Coal or Coke | | | | | | | | | |
| a. Area | | | | | | | | | |
| b. Point 2. Distillate Oil | | | | | | | | | |
| a. Area | | | | | | | | | |
| b. Point B. Residual Oil | | | | | | | | * | |
| a. Arca | | | | | 94.9 | | | | |
| b. Point 4. Natural Gas | | | | | 1 77.0 | | | | |
| a. Area | | | | | | | | | |
| 5. Process Gas | | | | | | | | | |
| A. Area | | | | | | | | | |
| b. Paint | | | | 1 | 1 | 1 | 1 | <u> </u> | |

^{*} Includes Commercial Uses

| | | | | | • | | | | | |
|--|----------------|-------------|---------------------------------------|--|--------------|---|-----------------|---|----------|--------------------|
| | • • | | 4 T 1. | | | | s ia | | • | |
| COLLUTANT: Sulfur Oxides | REGION: | Northeas | | · | - - | | | - | | ** ************ |
| 6. Wood or Bark | Alachua | Baker | Bradford | <u>Clay</u> | Columbia | Dixie | Duva1 | Flagler | Franklin | Gadsde: |
| a. Area b. Foint | 18.98 | • | • | å : | *** | 1.1 | , | | | |
| 7. Combination a. Area | | | - | | | | 13.9 6101.0 | | • | |
| b. Point D. Total Fuel | 142.6 | 11.47. | 18.33 | 89.02 | 28.8 | 7.54 | 7625.34 | 72.27 | 8.23 | 1122.7 |
| Compustion | | | | | | | | | | |
| II. Power Plants A. Coal | · | | | | | | | | | • |
| B. Distillate Oil | | | 0.05 | . ~. | | | 77000 5 | | | |
| C. Residual Oil D. Natural Gas | | | | | | | 33908.5 | | : | |
| E. Combination | 510.4 | | 0.05 | | | | 77000 5 | | | |
| F. Total Fower Plants III. Process Emissions | 510.4 | | 0.05 | AND THE RESIDENCE OF THE PERSON OF THE PERSO | | | 33908.5 | | | |
| A. Chemical B. Food and Agriculture | | , | ÷ | 41.0 | | , | 245.6 | | | |
| C. Metallurgical | · | | • | | | · | 99.8 | | | |
| D. Mineral E. Wood | 103.16 | | | 740.0 | | | 146.8 | · | | 52. 2 |
| F. Petroleum Storage | | | | | | - | 1403.5 | | | |
| G. Petrochemical Operations H. Total Process Emissions | 103.16 | | | 781.0 | | | 1895.7 | | | |
| IV. Solid Waste Disposal | 103.10 | | · · · · · · · · · · · · · · · · · · · | /01.0 | | | 1023./ | | | 52.2 |
| A. Incineration 1. Area | 2.2 | | 0.15 | 0.25 | | | 17 AF | | | |
| 2. Point | 2.2 | | 0.13 | 0.25 | | | 13.95 | | | 0. ℑ |
| B. Open Furning 1. Area | | | | • | | | 13.90 | | | • |
| 2. Point | | | | androgramman water o Aprillo occio water | | on a supplementary and the supplementary of the supplementary and | 13.90 | an a man or agreed you have by a second the | | |
| C. Total Solid Waste Disposal V. Transportation | 2.2 | | 0.15 | 0.25 | | | 27.85 | | | 0. |
| A. Motor Vehicles | | | | | 1. | · · · · · · · · · | | • | • | -177 |
| 1. Gascline 2. Diesel | 110.0 67.62 | 11.5 7.0 | 23.2 14.13 | 19.9 12.09 | 43.6 26.6 | 10.4 6.3 | 496.2 | 5.4 | 10.3 | 22.6 |
| B. Off-Highway Usage | 07.02 | /.0 | 14.13 | 14.09 | 20.0 | 0.3 | 302.5 | 3.3 | 6.28 | 13.7 |
| C. Aircraft D. Railroads | 25.7 | | 3.0 | | | | 412.0 770.7 | | • | 34.1 |
| E. Vessels | 20., | | 010 | | | | 264.65 | 6.3 1 | | 34.1 |
| F. Gasoline Handling | | | | •• mo <u>=</u> • | · | | | · · · · · · · · · · · · · · · · · · · | | |
| G. Total Transportation | 203.32 | 18.5 | 40.33 | 31.99 | 70.2 | 16.7 | 2246.05 | 8.7 | 16.58 | 70.4 |
| | | | ا ق | | • | | | | | |
| | | | • | | , , | | | | | |
| | • | | | | | • | | • | | • |

| | | | | | | | | | ** | ÷ | | · |
|-------|----------|--|-------------|---------------|-------------|-----------------|----------------|-------------|---------------|---------------------------------|---------------|----------------|
| | | | | 12.7 | | 4 Ti | •! | | | • | | |
| 7:01 | LUTA | T: Sulfur Oxides | REGION: | Northeast | | | • | | • | | | ., |
| | - | | | Hamilton . | Jefferson | Lafavette | Leon | Liberty | Madison | Marion | Nassau | Putu |
| | | 6. Wood or Barka. Area | | | | | | | | | | |
| | · . | b. Point | | | | | ٠. | | | | | |
| | | 7. Combination a. Area | | | | | | | | | . `. | · |
| | | b. Point | | | | | | | | | 13279.0 | |
| | D. | Total Fuel | 4.10 | 17.88 | 10.17 | 3.30 | 381.48 | 3.63 | 4.16 | 80.28 | 13345.92 | 6174 |
| II. | Powe | Combustion er Plants | | | | | | | | | | |
| | A. | Coal | | | | - | • | 1 | | | | |
| , | B. C. | Distillate Oil Residual Cil | | | | | ; . | | | | | |
| | D. | Natural Gas | · | | | | | | | | | |
| | E. | Combination Total Power Plants | | | | | 810.0 810.0 | | | er entitleret erm mingeret in : | | <u>2730.</u> 6 |
| III. | Proc | ess Emissions | | | | | | | | | | E SHU |
| | A. B. | Chemical Food and Agriculture | | 6006.4 | | | | | | | | |
| | Ĉ. | Metallurgical , | ٠. | | | | | | | | 333.0 | ÷ |
| | D. | Mineral | | | | | 26.3 | | | 84.0 | | |
| | E. F. | Wood Petroleum Storage | | | | | - | | | | 2765.0 | 1535.0 |
| | G. | Petrochemical Operations | | 2002 | | | | | | | | |
| QIV. | | Total Process Emissions .d Waste Disposal | | 6006.4 | | | 26.3 | | | 84.0 | 3098.0 | 1535.0 |
| 1 | A. | Incineration | , . | | | | | | | | | |
| 42 | | I. Area 2. Point | | 0.14 | | | 2.6 | | | 2.0 | 0.1 | 0.5 |
| | В. | Open Burning | | | | | | | | | | |
| | | 1. Area | | | | | | | | | | |
| | c. | 2. Point Total Solid Waste Disposal | | 0.14 | | | 2.6 | | | 2.0 | 0.1 | 0.5 |
| A. | Trar | sportation | | | | 11 - | | | | | | |
| | Α. | Motor Vehicles 1. Gasoline | 4 3 | 24 1 | | 2.06 | 00.5 | | | | | |
| | | 2. Diesel | 4.3 2.59 | 24.1 14.64 | 8.5 5.13 | 2.96 1.78 | 98.5 60.0 | 2.0 | 21.8 13.28 | 102.5 62.49 | 26.5 16.12 | 32.3 19.6 |
| | e. | Off-Highway Usage Aircraft | | | | | 86.6 | | | , T | | |
| | D. | Railroads | 7 HE ; | | | | 26.9 | | | 7.4 | 0.17 | 5.4 |
| | 14.7 | Vessels | 1 13 | | | | | | 1 | A • 3 | 0.17 | 5.4 |
| ۴ | F. | Gasoline Handling | 6.89 | 38.74 | 13,63 | 4.74 | 272.0 | 3.2 | 35.08 | 172.59 | 42.79 | 57.38 |
| 2 - 1 | | The state of the s | ् स्टब्स | | | 1117 | · | | | - 444.0% | | |

| : LICT! | mr: Sulfur Oxides | REGION: | | | | | | · | | 1 | | |
|---------------|----------------------------|-----------|----------|---------|------------|---|----------|--|---|--------------|-------------|------|
| | 6. Wood or Bark | St. Johns | Suwannee | Taylor | Union | Wakulla_ | TOTALS | | | | | - |
| | a. Area | | | | | | | , | | | 1 | |
| | b. Point | | • | | | | | | | | ! | |
| | 7. Combination · | | | | | | | | | |) | |
| | a. Area | | 13.0 | | | | | | | | i | |
| | b. Point | | | 1570.0 | | | | | | | | |
| 5. | Total Fuel . | 39.84 | 38.74. | 1585.45 | 9.1 | 101 81 | 30926.41 | | | | 1 | |
| | Corbustion | | | | | 1,7,1,7,1 | 00000.,1 | | | | | |
| II. Pow | er Plants . | | | | | | | | | | | |
| A_{\bullet} | Coal | | | | | | | | | | | |
| В. | Dustillate Oil | | | | | · | | | | | | |
| С. | Rosičval Oil | | ł | | | | | | | İ | ĺ | |
| ٥. | Nabural Gas | | | | | 3535 0 | | | | | | |
| ⋾. | Combination | | 966.0 | | | 1515.2 | | | - | ļ | | |
| £, | Total Power Plants | | 966.0 | | | 1515.2 | 40440.15 | | | | | |
| | deas Pmissions | | | | | | - | | | | | |
| | Chamical | (| | | | | | | | | | |
| | Prod and Agriculture | | į | | | | | | | | ļ | |
| c. | Metallurgical (| | 100 (| | | 70.0 | | | | } | | |
| | Himeral | | 100.6 | 1670 0 | | 78.9 | | | 1 | | | |
| | Ropa | | | 1639.0 | | · | | | | | | |
| £. | Petroloum Storage | | • | | | | | _ | | | 1 . | |
| | Petrochemical Operations | | 100.6 | 1639.0 | | 78.9 | | | · | | | Ç |
| h., | Motal Process Emissions | | 100.0 | 1039.0 | | /0.9 | 15400.26 | · | · | <u> </u> | | |
| 7. 501 | id Waste Disposal | 1 | | | | | | | | | | Said |
| Α. | Incirculation | | 0.2 | 0.2 | | | | | | | | |
| | 2. Point | | 0.2 | 0.2 | | | | | | | | |
| 5 | Open Burning | | | | | | | | | | | |
| ь. | 1. Area | | - | | |) | | | | ļ | İ | |
| | 2. Point | | | | | | | | | İ | | |
| 0 | Total Solid Waste Disposal | | 0.2 | 0.2 | | | 36.49 | Name of the same o | | | + | |
| U. T⊤a | nsportation | | | | | <u> </u> | 50.43 | | | | -1 | |
| | Motor Vehicles | | | | | | | • | | | 1 | |
| | 1. Casoline | 41.4 | 21.0 | 27.7 | 9.3 | 6.0 | | | | 1 | | |
| | 2. Diesel | 25.24 | 12.8 | 16.88 | 9.3 5.7 | 3.69 | | | | | • | |
| Э. | Off-Highway Usage | | | | | | | | | | 1 | |
| c. | Aircraft | ļ | | | | | | | | 1 | : | |
| | Railroads | | 0.05 | 0.75 | | | | | | | 1 | |
| | Vessels | | | | | 1 | | | | į | | |
| F. | • | | | | | | | | İ | j 1 | | |
| | Total Transportation | 66.64 | 33.85 | 45.33 | 15.0 | 9.69 | 3540.21 | | 1 | | | |
| | 10 car + remoportación | 00,0, | 20.00 | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 3370.21 | | | | | |

Sulfur Oxides
Circulturations from Sources
A. Forest Fires
B. Agricultural, Silvicultural and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
Crand Total
A. Area
B. Point

| | REGION: | Northeast | gentralism of the second | | e rijaja i 1. sprikajija si oraji rijaje si rasije 1. rajia pasajanja, j | | | | | |
|----|---------|-----------|--------------------------|-------------|--|-------------|-----------|---------|------------------|---------|
| | Alachua | Baker | Bradford | Clay Columb | | Dixie Duval | | Flagler | Franklin Gadsdon | |
| 1 | ٠ | | | | | | | | | |
| ۱, | | | | | , | | | | | |
| ٦ | | | | | | | | | | |
| 1 | | | | | | | | | | |
| 1 | | | | | | | | | | |
| ţ | 961.68 | 29.97 | 58.86 | 902.26 | 99.0 | | 45703.44 | 80.97 | 24,81 | 1245.76 |
| 1 | 348.12 | 29.97 | 58.81 | 69.26 | 99.0 | 24.24 | 3088.24 | 13.97 | 24.81 | 113.56 |
| ŧ | 613.56 | 0.0 | 1 | 833.00 | 0.0 | 0.00 | 42615.20_ | 67.00 | 1 0.00 | 1134.20 |

| Sulfur Oxides I Miscellaneous Area Sources A. Forest Fires | • | Northeast Hamilton | Jefferson | Lafayette | Leon | Liberty | Madison | Marion | Nassau | Putnam_ |
|--|------------------------|-----------------------------|------------------------|----------------------|------------------------------|----------------------|------------------------|---|-------------------------------|--------------------------------|
| B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection D. Total Miscellaneous Corand Total A. Area B. Point | 10.99 10.99 0.00 | 6063.16 56.76 6006.40 | 23.80 23.80 0.00 | 8.04 8.04 0.00 | 1492.38 394.68 1097.70 | 6.83 6.83 0.00 | 39.24 39.24 0.00 | 297.0 297.0 635.67 551.67 84.00 | 16486.81 67.81 16419.00 | 10497.06 102.00 10395.00 |
| | | · | · | | | | | | | • |
| | | | | | | | | | | |
| C - 45 | | | | | | | , | | | |

| | ** 71. |
|-----|-----------------------------|
| | Sulfur Oxides |
| Mis | cellaneous Area Sources |
| · | Forest Fires |
| Э. | Agricultural, Silvicultural |
| | and Landelearing Burning |
| c. | Grove Protection |
| ٥. | Total Miscellaneous |
| | nd Total |
| A. | Area |

Point

| | REGION: N | ortheast | | to the state of the same of th | | | | | |
|----|-----------|----------|---------|--|---------|----------|---|-------|----------|
| | St. Johns | | Taylor | Union | Wakulla | TOTALS | | 1 | |
| 1 | | | | | | | | j | |
| 1 | | | | | | | | | į |
| | • | | | | | | , | | |
| 1. | | | | | | | | | |
| 1 | | | | | | 297.00 | | | \ |
| | 106.48 | 1139.39 | 3269.98 | 24.10 | 1705.60 | | | | |
| ľ | 106.48 | 72.79 | 60.98 | 24.10 | 16.60 | | | | |
| 1 | 0.00 | 1066.60 | 3209.00 | 0.00 | 1689.00 | 85227.71 | | | 1 |

I will be by their This ado. BEGLUT ortheast Flagler Franklin Gadsden Columbia Dixie Duva1 Alschua Baker | Bradford Clay I. Fuel Combustion A. Residential and Institutional Fuel 1. Coal or Coke a. Area 1314.0 b. Point 2. Distillate Oil 5.4 4.24 1.02 133.8 0.87 1.29 a. Area 19.19 2.12 3.52 5.69 b. Point 3. Residual Oil 0.11 0.6 0.08 8.17 0.07 0.23 0.5 0.4 a. Area 0.14 1.62 b. Point 4. Natural Gas* 15.0 0.13 0.2 1.11 0.13 0.41 0.91 0.72 2.97 0.26 a. Area b. Point 5. Cómbination a. Area b. Point B. Commercial 1. Distillate Oil 0.01 0.31 0.01 a. Area 0.03 0.01 b. Point 2. Residual Oil a. Area b. Point C. Industrial Fuel . 1. Coal or Coke a. Area b. Point 2. Distillate Oil a. Area • b. Point 3. Residual Oil a. Area b. Point · 4. Natural Gas a. Area b. Point 5. Process Gas a. Area b. Poiat

^{*} The lates Commorpial Uses

| POLI | LUTANT: | Carbon Monoxide | . F | EGION: No | ortheast | | grand and analysis of the second of the | grove was pass or symbologic control flow on the pass | واقت فالحمولة بالاستنام | | | , |
|------|---------|--|-----------|-----------|--|--|---|---|-------------------------|----------|------------|---------------|
| τ. | Fuel Co | ombustion | Gilchrist | Hamilton | Jefferson | Lafayette | Leon | Liberty | Madison | Nassau | Putnam | St. Johns |
| • | A. Rea | sidential and stitutional Fuel Coal or Coke a. Area | | | | | | | | | | |
| | •• | b. Point Distillate Oil a. Area b. Point | 0.65 | 1.2 | 1.58 | 0.5 | 18.84 | 0.42 | 2.0 | 4.34 | 7.87 | 7.14 |
| | ٠ | Residual Oil a. Area b. Point Natural Gas* | 0.05 | 0.12 | 0.14 | 0.04 | 1.6 | 0.05 | 0.2 | 0.32 | 0.56 | 0.47 |
| | | a. Area b. Point Combination | 0.1 | 0.22 | 0.25 | 0.08 | 2.92 | 0.10 | 0.38 | 0.59 | 1.03 | 0.87 |
| | | a. Area b. Point mmercial | | | | | 1.1 | | · | , . | | |
| | 1. | Distillate Oil a. Area b. Point | | | | | 0.03 | | | 0.01 | 0.02 | 0.02 |
| | 2. | a. Area b. Point | | | | | | | | | | |
| | | dustrial Fuel Coal or Coke a. Area | | | · | | | | | | | |
| | 2. | b. Point Distillate Oil a. Area b. Point | | | | | • | | | | | |
| | 3, | Residual Oil a. Area b. Point | | | | | ÷. | | | - | 4.1 | |
| | 4. | | | | To the state of th | The state of the s | | | | · | | |
| | 5. | Process Gas a. Area | | | Section 1997 | | | | | | Section 1. | |
| | | b. Point | | | 1 | <u> </u> | | | · | | | |

^{*} Tooledes Commondial Uses

POLLUTANT: Carbon Monoxide

REGION: Northeast

| ı. | Fue | Combustion | Suwannee | Taylor | Union | Wakulla | Marion | | | | | |
|----|-----|--|----------|--------|-------|---------|--------|---|---|-----|---|---|
| | A. | Residential and | | | | · | | f | | j | } | |
| | | Institutional Fuel | | · | | - | | | | | 1 | |
| | | 1. Coal or Coke a. Area | , | | | · | | Ì | | | | |
| | | b. Point | | | • | · | | | | 1 | | |
| | | 2. Distillate Oil | 1 | | | | | 1 | | 1 | | |
| | | a. Area | 5.77 | 2.2 | 1.29 | 1.0 | 12.59 | | | | | 1 |
| | • • | b. Point | [] | | | | ٠. | | | | | |
| | | 3. Residual Oil a. Area | 0.24 | 0.21 | 0.13 | 0.1 | 1.07 | | | 1 | | |
| | | b. Point | 0.24 | | 0.13 | , 0,1 | | 1 | | | | |
| | | 4. Natural Gas* | 1. | | | | | | 1 | | 1 | |
| | | a. Area | 0.44 | 0.39 | 0.23 | 0.18 | 1.96 | | | | | ٠ |
| | | b. Point | | | | | | | | | , | |
| | | 5. Combination a. Area | | | | | | , | | | | |
| | | b. Point | | ' | | | | | | l · | | |
| | B. | Commercial | 1 1 | | • | | | | | İ | | |
| | | 1. Distillate Oil | | | | | | | | ĺ | | |
| | • | a. Area | 0.02 | í | | | 0.02 | | | | | |
| | | b. Point 2. Residual Oil | | | | | | | | | | |
| _ | | a. Area | | ` | | | | ĺ | | j | | |
| ဂှ | | b. Point | 1 | | | | | 1 | | | | |
| 4 | c. | | | | | | | | ŀ | | | |
| 9 | | 1. Coal or Coke |] | | | | | | | | | |
| | | a. Area b. Point | | | | | | | | : | | |
| | | 2. Distillate Oil | | | | | | | | | | |
| | | a. Area | | | | · | | | | | 1 | , |
| | | b. Point | | ٠. | | | : | 1 | | | 1 | |
| | | 3. Residual Oil | 1 | | - | | • • | | | | • | |
| | | a. Areab. Point | | | | | | 1 | | | | |
| | - | 4. Natural Gas | | | | | | | | | 1 | |
| | | a. Area | 1 | | | | | | | | | |
| | | b. Point | | | | | - | | | | | |
| | | 5. Process Gas | | | | | | | | 1 | | |
| | | a. Area | | | • | , | | | | | 1 | 1 |
| | | b. Point | 1 1 | | | í | · | | | | | |

^{*} Includes Commercial Uses

| incommendate angulary is the | Politica (no. 1) of the contraction of the contrac | | | | | | | | | | |
|------------------------------|--|--|--|------------|--------|-----------|--|---|---------|----------|---------|
| | | | | | * | | | Ship | | | |
| | • | | | | | • •. | | | | | |
| IJLI | LUTANT: Carbon Monoxide | | Northeast | | | - | annumber to the strangent and antique to | er e t Laborata decam a foto va e v | | | |
| | • | Alachua | Baker | Bradford | Clay | Columbia_ | <u>Dixie</u> | Duval | Flagler | Franklin | .Gadsde |
| | 6. Wood or Barka. Area | 18.98 | | ÷ | | <u> </u> | | | | | |
| * | b. Point | 13.30 | ٠ | • • | | | 2.19 | | | | 6. |
| | 7. Combination a. Area | | . , | <u>.</u> . | | | | 0.3 | | | |
| | b. Point | 42.79 | 2.52 . | 4 17 | 7 02 | | 7 42 | 271.6 | | | 1321. |
| | D. Total Fuel Combustion | 44.73 | 4.34 | 4.17 | 7.02 | 5.37 | 3.42 | 429.18 | 1.07 | 1.60 | 1341. |
| | Power Plants | and the state of t | - | , | | | | | | | |
| | A. Coal B. Distillate Oil | Paradia Paradi | a - , | | | | | | | | , |
| | C. Residual Oil | An apparent | | | | | | 8.4 | | | |
| | D. Natural Gas E. Combination | | | | | | | | | | |
| | F. Total Power Plants | | | | | | | 8.4 | | - | - |
| | Process'Emissions' A. Chemical | | | | | | - | | | | |
| | B. Food and Agriculture | 10.44 | | | | | | - | | | |
| | C. Metallurgical D. Mineral | | | | | | | 0.15 | | | • |
| , | E. Wood | | | | | | | 449.9 | | | 1 |
| | P. Patroleum Storage G. Petrochemical Operations | | | | | ļ · | | ٠ | | | • |
| | H. Total Process Emissions | 10.44 | | | | | | 450.05 | | | |
| IV. | Solid Waste Disposal A. Incineration | | | | | | | | | | |
| | 1. Area | 18.4 | t | 0.6 | 1.0 | 1.35 | | 53.95 | | | 2. |
| | 2. Point B. Open Burning | | | 84.6 | | 536.6 | | | 2633.5 | | ř |
| | . l. Area | | | | : | | | | | | |
| | 2. PointC. Total Solid Waste Disposal | 18.4 | | 85.2 | 1.0 | 537.95 | ļ | 53.95 | 2633.5 | | 2, |
| y. : | Transportation | The second secon | - Magazillar i er estado in a mante de 1900 de 1900 de 1900 de 1900 de 1900 de 1900 de 1900 de 1900 de 1900 de | | | | | | | | |
| į. | A. Motor Vehicles 1. Gasoline | 72600.0 | 4765.4 | 9578.9 | 8211.1 | 18035.5 | 428.7 | 324778 7 | 2220.0 | 4276.8 | 9358. |
| | 2. Diesel | 471.86 | 48.84 | 98.58 | 84.37 | 185.6 | 44.1 | 324778.7 2111.0 | 22.8 | 43.81 | 96. |
| | B. Off-Highway Usage | | , | | | | | 6174 34 | | | |
| | | | | 1 | 1 | 1 | 1 · | 6174.24 | i | 1 | |
| | C. Aircraft D. Railroads | 27.6 | | 3.2 | | | Ì | 829.9 | [| • | 36. |
| | C. Aircraft | 27.6 | | 3.2 | | | ; | 829.9 20.0 | | | 36. |

| 77.770 | | | | | | | | | |
|--|--|--|--|---|--|--|---|---|---|
| DDGTON. | | | | | | | | | |
| n na na na na na na na na na na na na na | | | | | 1 | \max | | | |
| | | | | • . | | | | | |
| H H H H H H H H H | Northeast | | | | | | • | s. | •• |
| Gilchrist | Hamilton | Jefferson | Lafavette | Leon | Liberty | Madison | Nassau | Putnam | St. Jo |
| | | | | | | 4 | | | |
| | | • | | | | | | | |
| 1 | | | | | | | | | |
| | | | | | | · | 414.3 | | |
| 0.80 | 1.54 | 1.97 | 0.62 | 24.49 | 0.57 | 2.58 | 419.56 | 13.58 | 3 |
| | | | . 1 | | | | | , | |
| | | | | | ĺ | | | | |
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| | | | | · | | | diameter of the second | | |
| | | - angelier for the first substitute to the substitute of the subst | | | | | | | ļ |
| | | | - ACESTES NO CONTROL C | 1.0 | | ware-models and the Magaza at Manadels and an | | 26.3 | |
| | n 35 | | | | - 1 | | | | 1 |
| | 0.33 | | | | · | e e | | | |
| | | | | | | | | | |
| | | | | | and the second | | 15724.8 | 1009.2 | 1 . |
| Sandaria. | | | | | , , , , , , , , , , , , , , , , , , , | منب | | | |
| of the courty of the beauty of | 0.35 | | | | | arteriorista de la companya de la companya de la companya de la companya de la companya de la companya de la c | 15724.8 | 1009.2 | - |
| I will read months and a second | and the second s | THE STATE OF THE PERSON STATE OF THE STATE O | | , | | | - A gard Miles Miles and Alberta Miles | | |
| | | | | 21.9 | | | 0.8 | 4.6 | |
| | 185.9 | | | | | | | 2146.3 | |
| | | | | | | | · | | |
| | | | | | | ing Billion a construction of the construction of the con- | 7 - 1 man - 1 marrier - 1 marrier - 1 | | - |
| 11 | 185.9 | | and the second second second second second second second second second second second second second second seco | 21.9 | | mi | 0.8 | 2150.9 | |
| 1 | | • | | | | | • | | |
| 1763.7 | 9949.0 | 3518.6 | 1225.4 | 64474.4 | 826.0 | 9014.4 | 10939.0 | 13352.5 | 1711 |
| 18.06 | 102.13 | 35.82 | 12.43 | 418.9 | 8.3 | 92.66 | 112.5 | 137.36 | 170 |
| | | | . , | | 1 | | · | • | · |
| | | | | 550.4 29.0 | 1 | | 0.10 | | |
| | | | | | i | | 0.19 | 5.8 | |
| | | ! | | | | | 11051.69 | | • |
| | 0.80 | 0.80 1.54 0.35 0.35 185.9 1763.7 9949.0 | 0.80 1.54 1.97 0.35 0.35 185.9 1763.7 9949.0 3518.6 | 0.80 1.54 1.97 0.62 0.35 185.9 1763.7 9949.0 3518.6 1225.4 | 1.0 1.0 1.0 0.35 21.9 185.9 21.9 | 0.80 1.54 1.97 0.62 24.49 0.57 1.0 1.0 0.35 0.35 185.9 21.9 1763.7 18.06 102.13 3518.6 35.82 1225.4 12.43 418.9 8.3 | 0.80 1.54 1.97 0.62 24.49 0.57 2.58 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1. | 1.0 0.35 185.9 1763.7 18.06 1.9 21.9 21.9 21.9 21.9 21.9 21.9 3518.6 1225.4 414.3 414.3 419.56 1.0 1.0 1.0 21.9 0.8 21.9 0.8 | 1.0 26.3 1.0 26.3 0.35 0.35 15724.8 1009.2 185.9 21.9 0.8 4.6 2146.3 1763.7 9949.0 3518.6 1225.4 64474.4 826.0 9014.4 10939.0 13352.5 18.06 102.13 35.82 12.43 418.9 8.3 92.66 112.5 137.36 |

| Service Management . | Kerini Millerinder in est | killipiliki kikama kili ili manakali pilikundan kanakan manakan manakan manakan manakan manakan manakan manaka Manakan manakan manakan manakan manakan manakan manakan manakan manakan manakan manakan manakan manakan manaka | | | | * , | | | | a caretari sa a formación so | of the property of the second | e i |
|----------------------|---------------------------|--|--|------------|-----------------|---|-------------------|---|--|------------------------------|--|--|
| | | | \$ s | | | | | | ű. | | • | |
| | | · · | | efitf a | | | - | | 4 | | | |
| | | • | | | | | | | | | | |
| ال 1 | LLUTA | NT: Carbon Monoxide | REGION: | Northeast | | | | | | , | | |
| | | | Suwannee | Taylor | Union | Wakulla | Marion | TOTALS | | | | 1 |
| | | 6. Wood or Bark | _ | | | | | | | | į | |
| | | a. Area b. Point | 9.0 | | | o | | | | | | |
| | | 7. Combination | | | | | | | | | | |
| | | a. Area | 1.32 | | - | | | | | | appendix. | |
| | | b. Point | | 166.1 | | | | | The state of the s | | | |
| | D. | Total Fuel | 10.32 | 168.9 . | 1.65 | 1.28 | 15.64 | 30926.41 | | | 1 | 1 |
| | | Combustion . | • | | | | | | | | | |
| II. | . Pow A. | er Plants | | | | | • | | | | | 1 |
| | | Distillate Oil | | | | | | | | | | |
| | ĉ. | | | | - | | | ٠. | - | | | |
| | D. | Natural Cas | 0.25 | | | 7 | | | | | į , | |
| | E. | | 0.25 | | | 1.33 | | major circular franchista de la companya de la companya de la companya de la companya de la companya de la comp | | | - | - |
| | F. | Total Power Plants | 0.25 | | | 1.33 | www.companies.com | 40440.15 | which the management of the second of the latter of the contraction of | | | |
| 116. | | cess Emissions Chemical | | | j | | | - | | | | |
| | | Food and Agriculture | | | | | 876.0 | | | | | † ' |
| | | Metallurgical , | | | | | | | | 1 | | |
| | D. | Mineral | | | | | | | | 1 | | |
| | E. | Mood | | 9018.8 | | | • | | | | F | 1 |
| | F. | Patroleum Storage | | | | | | | eje | | | |
| വ | G. H. | Petrochemical Operations Total Process Emissions | alfrigitering 200 mag and register compared to the first figure of the property or a | 9018.8 | | | 876.0 | 1540026 | investigation to the second state of the second sec | | | and the state of t |
| g Hiv. | | id Waste Disposal | Parada (in programme to program experience parameter party) - 1 to 6 km (i. in program experience parameter paramete | TULO.0 | | erro describito de los casos en la terro de la companya de la companya de la companya de la companya de la comp | 0/0.0 | 1340020 | energenistizan tiranga populari kitabahati karat menggan dibabba K | | - And the second | Page Control of the C |
| л-·· | A. | Incineration | i | | | | • | | | | - | |
| . <u></u> | | 1. Area | 1.7 | 1.33 | | | | | | | , . | |
| | * | ·2. Point | 33.8 | 2236.9 | | | 16.6 | | | | | |
| | в. | Open Burning | | | | | | | | 1. | | |
| | | 1. Area 2. Point | 1 P P | | | , | | , | | | | |
| | с. | | 35.5 | 2238.23 | | andromater species of the series of the series | 16.6 | 36.49 | anagan calmagan anagan an | - committee of the second | | - |
| У. | Trai | nsportation | AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED | 220,20 | | No. of the Association State of the Association of | | 1 | | - | | - |
| | A. | Motor Vehicles- | 1 | | | | · | | : | • | | |
| | | 1. Gasoline . | 8688.5 | 11446.0 | 3860.0 | 2503.1 | 42362.7 | 1 | | | | |
| _ | 2. <u>≥</u> | 2. Diesel | 89.4 | 117.8 | 39.7 | 25.75 | 436.0 | | | | | |
| | В. | Off-Highway Usage | | A Lagranda | | | | | | | 1. | |
| | C. D. | Aircraft Railroads | | | The There | | | | | | | |
| | E. | Vessels | 0.05 | 0.81 | - ** v. · · · · | | 8.0 | 19 10 1 | | | | |
| | Ţ. | Gasoline Handling | | | · | | | | | 100 | | 1 |
| • | Ğ. | Total Transportation | 8777.95 | 11564.61 | 3899.7 | 2528.85 | 42806.7 | 3540.21 | | | j - r < r = | |
| | 7. | क भ्रम का नामा । के में फोर्ड रूप हुए भा का का का का का का का मार्थ है । | | | | | | | | ····· | - | - |

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| FCT-SUTANT: Carbon Monoxide | REGION: N | ortheast | | | | | | | | |
|---|-------------------|----------------------|-------------------|------------------|-----------------|----------------|-----------------------|--------------------|-----------------|-----------------|
| | Alachua | Baker | Bradford | Clay | Columbia | Dixie | Duva1 | Flagler | Franklin. | Gadsden |
| VI Miscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural and Landelearing Burning C. Grove Protection | 880.8 5882.0 | 312.5 2811.5 | 279.3 1865.0 | 1743.9 2852.5 | 407.7 3667.5 | 187.0 120.5 | 2208.9 3613.5 | 466.9 4370.5 | 344.4 853.5 | 137.4 3549.5 |
| D. Total Miscellaneous | 6762.8 | 3124.0 | 2144.3 | 4596.4 | 4075.2 | 307.5 | 5822.4 | 4837.4 | 1197.9 | 3686_9 |
| "II Grand Total . | 79933.89 | 7940.76 | 11914.35 | 12899.89 | 22839.62 | 783-72 | 340677.82 | 9714.77 | 5520.11 | 14502.51 |
| A. Area B. Point | 79923.45 10.44 | 79 40 . 76 0 : 00 | 11829.75 84.60 | 12899.89 0.00 | 22303:88 | 783:72 0:00 | ³³⁹ 947:77 | 7881:27 2833:56 | 5520:11 0:00 | 13188.51 |

POTABLE: Carbon Monoxide.

VI Miscellaneous Area Sources....

A. Forest Fires
B. Agricultural, Silvicultural
and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
II Grand Total

A. Area B. Point

| | REGION: No | ortheast | the section of the se | | | | | | | |
|-----|-----------------|--------------------|--|----------------|-----------------|---------------------------------------|----------------|---------------------------|--------------------------|-----------------|
| - | Gilchrist | 'Hamilton | Jefferson | Lafayette | Leon | Liberty | Madison | Nassau | Putnam | St. Johns |
| | | • | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| al | 261.7 1264.0 | 271.8 2445.0 | 156.1 4033.5 | 146.4 505.0 | 174.9 4518.0 | 530.6 1335.5 | 195.3 740.0 | 1860.2 3043.0 | 751.9 5021.0 141.0 | 570.6 5342.0 |
| . 1 | 7 1525.7 | 2716.8 | 4189.6 | 651.4 | 4692.9 | 1866.1 | 935.3 | 4903.2 | 5913.9 | 5912_6 |
| | 3308.26 | 12955.72 | 7745.99 | 1889.85 | 70212.99 | 2700.97 | 10044.94 | | 22609.54 | 23215.64 |
| | 3308.26 0.00 | 12769:47 186:25 | 7745.99 | 1889.85 | 70211.99 | 2700.97 | 10044.94 | 15960.95 16139.10 | 19427.74 3181.80 | 23215.64 |
| | £ | X | | | | V V V | | handle of the same of the | | |

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| e No. T. | | | | | | , | | • | | |
|----------|---|---|--|--------------------------------------|--------------------------------------|-------------------------------------|--|---|--|--|
| VI | Miscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection | REGION: No Suwannee 366.9 3300.5 | Taylor 284.7 1029.0 | Union 236.0 1578.0 | Wakulla 156.1 4033.5 | Marion 1192.2 5760.0 720.0 | TOTALS | | | |
| ïï | D. Total Miscellaneous Grand Total A. Area B. Point | 3667.4 12491.42 12457.37 34.05 | 1313.7 24304.24 12882.44 11421.80 | 1814.0 5715.35 5715.35 0.00 | 4189.6 6721.06 6719.73 1.33 | | 88519.20 794130.56 756963.44 37167.12 | | | |

The state of the s

3 / X

1 LUPANT: Hydrocarbon

REGION: Northeast

| | • | mbustion | Alachua | Baker | Bradferd | Clay | Columbia | Dixie | Duval | Flagler | Fran'lin | Gadsden |
|--------|---------|---------------------|---------|--------|----------|------|----------|-------|-------------|---------|----------|---------|
| F (| | idential and | ALLEN | 25554 | | | 1 | | | | | |
| n. | | titutional Fuel | | • | | | | | | | | |
| | | Coal or Coke | | | | | | | | | | |
| | | a. Area | . 1 | | | | | | | | · | |
| | | b. Point | | | , | | | , | | | | 70 - |
| | 2. | Distillate Oil ' | | | | | 1 | | | | | 36.5 |
| | | a. Area | 12.1 | 1.3 | 1.15 | 3.27 | 2.5 | 0.62 | 80.3 | 0.52 | 0.77 | 3.22 |
| | | b. Foint | 1 | | , i | * | | | | | | |
| | 3. | Residual Oil | | | | | | | | | | |
| | | a. Area | 0.97 | 0.09 | 0.13 | 0.3 | 0.23 | 0.05 | 4.9 | 0.04 | 0.06 | 0.36 |
| | | b. Point | 1 | | | | | | - | | | |
| | 4. | Natural Gas* | | | | | - | | | | • | |
| | | a. Area | 1.19 | . 0.10 | 0.17 | 0.36 | 0.29 | 0.05 | 6.0 | 0.05 | 0.08 | 0.44 |
| | | b. Point | 1 | | | • | | | | | | |
| | 5. | Combination | | | • | | | | 1 | | , | |
| | | a. Area | | - | | | | | | | | |
| | | b. Point | 1 | | | | | | | | | |
| £ | | nercial | | | | | | | | | | |
| | , 1. | Distillate Oil | 0.5 | 0.07 | 0.12 | 0 12 | 0.07 | 0.00 | 4.50 | 2 22 | | |
| | | a. Area | 0.3 | 0.07 | 0.12 | 0.12 | 0.07 | 0.02 | 4.62 | 0.02 | 0.03 | 0.05 |
| ဂ | _ | b. Point | | | | | | - | | | | í. |
| | 2. | Residual Oil | 1 | | | | | | | | | |
| S O | | a. Area | 1 | | | | | | | | | |
| - | 9 T- 5. | b. Point | | | | | | | | | | |
| . (| | strial Fuel | 1. | | | | | | | | | , , |
| | 1. | Coal or Coke | 1 | | | | | | , | | | |
| | | a. Area b. Point | | | | | | | | | | |
| | 2. | Distillate Oil | 1 | | | | | | | | Ť | |
| | 4. | a. Area | | | | | | | 2.4 | | | |
| | | b. Point | 1 . 1 | | | | | * | **** | | | |
| | 3. | Residual Oil | | | | | | | | | _ | |
| | a | a. Area | 1 | | | 6.73 | | | 6.2 | | • | |
| | | b. Point | 1 . 1 | | | | | | | - 1 | • | |
| | | Natural Gas | | • • | | • | | | | | | |
| | | a. Area | | | | \$ 2 | | | 1 | | | |
| | | b. Point | 1 | | | | 1 14 | | | | | |
| | 5. | Process Gas | 1 | | | | | | 1 | | | |
| | 500 | a. Area | | ē | | | 1 | | | | | |
| | | b. Point | 1 | | | | | | | | | |
| | | AND ENGLISH | | | <u></u> | | | | | 1 | | |

^{*} Includes Commercial Uses

| Pin | LUTANT: | Hydrocarbon | | EGION: Nor | theast | e a de la company de la company de la company de la company de la company de la company de la company de la co | | | 1 | a de la composición del composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la compos | | ya. arus <u>agayangan da dipakadada</u> sandarya sa |
|------|----------|----------------------------|-----------|------------|-----------|--|-------|---------|---------------------------------------|--|--------|---|
| I. | Fuel Co | mbustion | Gilchrist | Hamilton . | Jefferson | Lafayette | Leon | Liberty | Madison_ | Marion_ | Nassau | Putnam |
| | | idential and | • | | | | | · | | | | |
| | | Coal or Coke | | | | | | | · | | | |
| | | a. Area | | | | | | | | | | |
| | | b. Point Distillate Oil | | | | | | | | | | |
| | ۷. | a. Area | 0.39 | 0.72 | 0.95 | 0.29 | 11.37 | 0.26 | 1.22 | 7.54 | 2.6 | 4.68 |
| • | | b. Point | | ; | | | | |] | , | | |
| | 3. | | 0.03 | 0.07 | 0.08 | 0.03 | 0.95 | 0.03 | 0.13 | 0.64 | 0.2 | 0.34 |
| | | a. Area b. Point | 0.03 | 0.07 | 0.08 | 0.03 | 0.95 | 0.03 | 0.13 | 0.04 | 0.2 | 0.54 |
| | | Natural Gas* | - | | | | . ~ | | | | | |
| | 3 | a. Area | 0.04 | 0.09 | 0.10 | 0.03 | 1.17 | 0.04 | 0.15 | 0.78 | 0.23 | 0.41 |
| | 4 | b. Point Combination | 1 | • | | | | | | | | |
| | | a. Area | | | | | 14.05 | : | - | | | • |
| | | b. Point | | | | | 33.9 | | | | | 14 |
| - 27 | | mercial Distillate Oil | | | | | | - | | | , | |
| | ه ماد | a. Area | 0.01 | 0.02 | 0.03 | 0.01 | 0.43 | 0.02 | 0.02 | 0.28 | 0.12 | 0.23 |
| C-57 | | b. Point | | | | | | | | | | |
| Ú | 2. | | | , | | • | | | | | | |
| 7 | | a. Area b. Point | | į. | | | | | | , | | |
| | | ustrial Fuel | | · A | _ | | | | | | | , . |
| | 1. | Coal or Coke | | . ^ | | | | | ٠ | | | |
| | | a. Area b. Point | | | | | | | | | ٠, | |
| , | 2. | Distillate Oil | | | | | į į | | | | | ٠ |
| | | a. Area | | | · | | 1,1 | | | * | · | |
| | 3. | b. Point Residual Oil | | | | | | | | | | •, |
| | | a. Area | | | | | | | | | | |
| | | b. Point | | | | | | | | ₹. | | 62.0 |
| | 4. | Natural Gas a. Area | a (5 Å | | n. i | | 15 | | | | - | |
| | | b. Point | | | | | | | | | | |
| | 5. | Process Gas | 0.45 | | | | | | | | | |
| | | a. Area | | s ! | | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | |
| | 4 | b. Point | I | | { | | | | 1 | <u> </u> | i - | |

^{*} Includes Commercial Uses

| 1 | I O TO | NT: | Hydrocarbon | R | EGION: Nor | theast | an province accompany to beauty the second department on the | | | P Commission of the commission | and streething beginning a space and other days. | | - or the state of the special department of the state of |
|---|---------|-------------|----------------------------|------------------------------------|------------|--|--|---------|--|--|--|---|---|
| | Fuc | ි 1 එක | aligation | St. Johns | Suvannee | Taylor | _Union | Wakuila | | | | | |
| | Α. | | idential and | | | | | | | | | | |
| | | | titutional Fuel | | | | | | | **** | | | |
| | | 1. | Coal or Coke | | | | | | | | | | |
| | | | a. Area b. Point | | | | | | | | | | |
| | | 2 | Distillate Oil | | | | | | | | | | |
| | | 4. p | a. Area | 4.86 | 3.45 | 1.34 | 0.77 | 0.61 | | | | · | |
| | | | b. Point | 4.00 | 3.43 | 1.04 | 0.// | 0.01 | | | | | |
| , | | з. | Residual Oil | | | | | ! | | | | | |
| | | | a. Area | 0.28 | 0.14 | 0.13 | 0.08 | 0.06 | | | | | |
| | | 4 | b. Point | | | • | | | | | | | |
| | | 4. | Natural Gas* a. Area | 0.75 | . 0.10 | 0.15 | 0.09 | 0.07 | [| | | | |
| | | | b. Point | 0.35 | 0.18 | 0.13 | 0.09 | 0.07 | į | | | | |
| | | 5. | Combination | 1 | | | | | 1 | | | • | |
| | | • | a. Area | ` | | | | | | | * | · | |
| | | | b. Point | | | • | | | | | | | |
| | · B. | | mercial | | | • | | | | | | | ļ |
| | | 1. | | | 2 2 5 | | | | | | | | |
| | | | a. Area b. Point | 0.29 | 0.26 | 0.04 | 0.02 | 0.02 | | Constitution of the Consti | • | | 4 |
| | | 2 | Residual Oil | | | | | ļ | | | , | | |
| | | 6- 1 | a. Area | | | | | | | | | • | |
| | • | | b. Point | | | | | | | | | | į |
| | _ C. | Indu | strial Fuel | | | | | | 1 | | | | Į. |
| 1 | ဂှ | 1. | Coal or Coke | | | | | | | | | | |
| | ဟ် ထ | | a. Area | | | | | | | | | | |
| | œ | 2. | b. Point Distillate Oil | | | | | | | | | - | |
| | | ٠. | a. Area | | | | | | r I | | | | |
| | | | b. Point | | | | | | | | | | |
| • | | 3. | Residual Oil | | | | | | | į | | | |
| | | | a. Area | | | | • | 4.9 | : | | | | |
| | | _ | b. Point | | | • | , | | | | | | |
| | • | 4. | Natural Gas | | | | | | 1.5 | * | | • | |
| | | | a. Area b. Point | | | | | | - | | | | |
| | | 5. | Process Gas | | | | | | | | | | |
| | | * | a, Area | | | | | | ţ | | | | |
| | | | b. Point | | | • | · · · · · · · · · · · · · · · · · · · | ì | T TO THE TOTAL T | T-GROWN TO THE T-GROW | | | - 1 |
| | | | 4 2 44 4 | Carry Carry - specifical specimens | | the salar district of the salar control of the salar s | | | | | | | man alla sandram anno (Sandram anno Sandram anno 19 |

^{*} Includes Commercial Uses

| | | | Northeas | 4. | | • | | | | | |
|------------------|--|--|--|------------------|--|--|--|---|--|--|--|
| | LEUTANT: Hydrocarbon | REGION | | | | | | T Days 7 | T71 - | | |
| | 6. Wood or Bark a. Area b. Point | 18.98 | Baker | Bradford | Clay | Columbia | Dixie 2.19 | Duval | Flagler | Franklin | <u>Gads</u> de: |
| | 7. Combination a. Area b. Point | | | | | | | 20°. 3 426°, 7 | | No | |
| | D. Total Fuel | 33.74 | 1.56, | 1.57 | 10.78 | 3.09 | 2.93 | 558.32 | 0.63 | 0.94 | 40.57 |
| ıı | Combustion Power Plants A. Coal | | ž | | | | | | The state of the s | AND THE PERSON NAMED IN TH | |
| | B. Distillate Oil C. Residual Oil D. Natural Gas F. Combination | 71.4 | | 0.4 | | | | 1001.0 | | | |
| • | F. Total Fower Plants | 71.4 | | 0.4 | | Commence and a principle of the company of the company | | 1001.0 | aux qu-sationaessassas tis-edelleise auxilia++ + | on the state of th | province of the second |
| · III | | General Service Control of the Service Contro | entre de la companya de la constitución de la const | | - | THE PROPERTY OF THE PROPERTY O | ner en en en en en en en en en en en en en | ong Garang Sagarang ang Amerikan ng Sagarang Ang Sagarang Ang Sagarang Ang Sagarang Ang Sagarang Ang Sagarang | n verilgelik Tay-dijiyli digiga kwikis melikop mazatan kwi | adasaan qaqad iingaa aa dhaa aa aa aa aa aa aa aa aa aa aa aa aa | And the second s |
| 0 - 1 14 1 | D. Mineral E. Wood F. Petroleum Storage | 1.06 | - | | 9.4 | | | 16.6 14.1 10283.7 | | | |
| C | G. Petrochemical Operations H. Total Process Emissions | 1.06 | e-many — LEB-Sungapungan militarian grup sake aminishi, yan mere | | 9.4 | | ner 18 innereng resignifications in appropriate the state of the | 10314.4 | · | ; | Cirimpangyawan muran-marin |
| 0 5 1v. | Solid Waste Disposal A. Incineration 1. Area 2. Point | 8.5 | menentra gamang antahilikan pander gamang pumba | 7.8 | 1.0 | 1.35 47.7 | | 53.95 | an et in mengelen fort det de state gregor het en 1995 hat de gelak de state profite en | etteritezaguandektendiktelejärjunkszálttillättätjárjundis ter nagt | 1.24 |
| | B. Open Burning 1. Area 2. Point | | | | | , | | | | | |
| | C. Total Solid Waste Disposal | 8.5 | | 7.8 | 1.0 | 49.05 | a Leap vide medition - conditions to age | 53,95 | | The production to read to the | 224.04 |
| ٧. | A. Motor Vehicles 1. Gasoline 2. Dicsel | 11868.9 91.67 | 916.7 9.49 | 1842.8 19.15 | 1579.6 16.39 | 3469.6 36.06 | 824.7 8.59 | 53096.0 . 410.09 | 427.1 4.43 | 822.8 8.51 | 1800.4 18.69 |
| - | B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels | 19.7 | | 2.3 | Carolina de Caroli | | | 2423.7 592.8 26.9 | | | 26.3 |
| | F. Gasoline Handling G. Total Transportation | 582.4 12562.67 | 60.5 986.69 | 121.7 1985.95 | 104.3 1700.29 | 229.1 3734.76 | 54.5 887.79 | 2605.2 59154.69 | 28.2 459.73 | 54.3 885.61 | 118.9 |
| | The second secon | Later Table 1 | | | | | | | | | |

^{** -} The predicted emissions in Duval County from automobiles will be 33,026 tons in 1975 (from figure 63, page 150 of the plan). Reduction of emissions from other sources is not expected since there are no specific hydrocarbon emission limitations.

| | | | | | 113 C 11- | | | | | | | |
|----------|------------|--|--|-----------------|--|--|--|--|--|---|--|----------------|
| -34 | p it: | | | | e w W | **. | 73° 31 | 9.00 | | | | |
| | | | | | *. | | | 17.1 E. F. F. F. F. F. F. F. F. F. F. F. F. F. | | | | |
| | | | | | | • | • | | * " | | • • • • | |
| 3.015 | LUTINT: | Hydrocarbon | REGION: | Northeast | er e | | | | * | | | te. |
| | | | | | | Lafayette | Leon | Liberty | Madison | Marion | Nassau | Putna |
| | б. | Wood or Bark a. Area | | | | | | | | | | |
| | | b. Point • | | | | | | | | | a and a | |
| • | 7. | Combination | | | | · | | | | | 1 | į |
| | | a. Area b. Point | | | `* | 2. | | | | | 506.9 | |
| • . | D. To | tal Fuel | 0.47 | 4.76 | 1.16 | 0.36 | 61.87 | 0.35 | 1,52 | 9.24 | 510.05 | 67.6 |
| | Cos | moustion | | | | | and the state of t | The state of the s | | | amendaminen och film fra statistische fr | |
| 11. | Power 1 | | - | | | | | | | | | <u> </u> |
| | B. Die | stillate Oil | | | · | | - | | | | | - |
| | | sidual Oil | | | | | | | nity and the second sec | | | 1 |
| 10 13 | | tural Gas mbination | | | | | 104.9 | | | | | 2632.0 |
| | F. To | tal Power Plants | | | | | 104.9 | · | | | | 2632.0 |
| III. | | Emissions | The second of th | 22.6 | | | ,- | | | 273.8 | | |
| | | emical od and Agriculture | | 22.0 | | | 14 | | | | | ļ |
| | C. Mei | callurgical (| · • | | . : | | | | | 4. | | |
| | D. Min | neral | | | | | | | · | 11.5 | and and a second | 1 |
| | | roleum Storage | | | | | | | ************************************** | | · | 2.3 |
| C IV. | G. Pet | rochemical Operations | Martin stages of Africa and second stands or man density | | | in a depart of the part of the second of the second of the second of the second of the second of the second of | on the title to appear by the second state of the second s | | - | 285.3 | | |
| A IV. | | tal Process Emissions Veste Disposal | | 22.6 | and the state of t | ar war grant and the second second second second second second second second second second second second second | The state of the s | | | *************************************** | A STATE OF THE PROPERTY OF THE | 2.3 |
| *** | | cineration | | | | | | | | | | 1 |
| 1 | | Area | | 15.73 | | | 10.2 | | and the state of t | 7.7 | 0.4 | 2.11 |
| | | Point on Burning | | | | | | | · · | | | 181.6 |
| | 1. | Area | | | | · | | | Į. | | | |
| • | | Point al Solid Was te Disposal | | 15.73 | Colonias particios processos quae en commencia de librarios e e e | nagyah njihan-mijerde najiriya se si dikidate de e sere e e | 10.2 | the adjustic adjustic constraints on the second of the | encentral control of the supervisor of the | 7.7 | 0.4 | 709 77 |
| V. | C. Tot | ortation | retained to retain a feet and a second and | 1 13.73 | manufaction and application of the Control of the C | was and the property of the state of the sta | 1.U . 6 | | | 1 | | 183. 73 |
| , | A. Mot | or Vehicles | 770 7 | 1017 | | * | · · · | | | | | |
| | | Gasoline Diesel | 339.3 3.51 | 1913.9 19.84 | 676.9 6.96 | 235.7 2.42 | 10540.5 81.37 | 158.9 | 1734.2 | 8149.6 | 2104.4 | 2568.7 |
| | B. Of: | E-Highway Usage | | 1 | 0.30 | 4.42 | | 1.6 | 18.0 | 84.71 | 21.85 | 26. 68 |
| | C. Air | ccraft | | | **** | | 37.3 | | - 11 | | | |
| | D. Rai | | - Linearing | | - | | 20.7 | | | 5.7 | 0.13 | 4.13 |
| • • • | | soline Handling | 22.4 | 126.4 | 44.5 | 15.6 | 517.2 | 10.5 | 114.5 | 538.2 | 139.0 | 169.6 |
| * | · 70 | ral Transportation | 365.21 | 2060-14 | 728.36 | 253.72 | 11197.07 | 171.0 | 1866.70 | 17018.22 | | 2769.11 |
| , | | | | • | | | | | ** *********************************** | | | |
| | <i>*</i> 1 | | • | | | | | | | | | |
| ٠, , | | | • | | | | | • | | | | |
| | | | | | | | | | | | * | |

| | • , | | | • | | . • | | | | | |
|----------------------|--|--|---|--|--|--|--|--|--|--|--|
| ייות דינובו | T: Hydrocarbon | REGION: | Northeas | ; t | the same of the transportation of the same | and the same participation of | | | | 4 many yr - Angressian | |
| | | St. Johns | Suwannee | Taylor | Union | Wakulla | TOTALS | | Arrangeglauri engendela anj bidlicano i Nacioni | | - |
| | 6. Wood or Bark a. Area b. Point | | 0.56 | | • | e decembrate application de la constitución de la c | | and the second s | - And Control of the | * Total Control of the Control of th | The state of the s |
| • | 7. Combination a. Area | | 1.42 | - | | no. | * | | All the state of t | a-manufacture and a second | |
| . | b. Point Total Fuel | 5.78 | 6.01 . | 279.4 281.06 | 0.96 | 5.66 | 1631.04 | | | entrement of extension for material and analysis | |
| | Combustion | 2.70 | 0.01 | 201.00 | 0.90 | 3.00 | 1611,04 | | - | | tarining of the second |
| | r Plants | and Applications and Ap | r | | | | | | | | |
| В. Д | Distillate Oil | | • | | | T and a second and | | | | | |
| D. 1 | Residual Oil Vatural Gas | | 40.7 | | | | - | - | | and the state of t | |
| | Combination | | 42,1 | | | 161.7 | | | | for more companies to the state of the state | - |
| | Total Tower Plants | es mont transmission and the feets of the behinders in a se | 42.1 | one and the same of the same o | | 161_7_ | 4013.50 | | | The annual section of the comments of the comm | A STATE OF THE PARTY OF THE PAR |
| A. (B. F | Chemical Cood and Agriculture | | | | | | | Control of the Contro | Tradition of the state of the s | A marketing controlled | |
| C. 5 D. 1 B. 7 | Metallurgical Lineral Mood | | 0.66 | 12.5 | <u>.</u> | 1.08 | Avecua-web-to-open-lyspose | volumente materiale. | The state of the s | To be a second s | |
| | Petroleum Storage Petrochemical Operations | actor Baltic Galactic St. Ambuma plant addition and accommon de- | en van van gegen en opper gewond van gewond gewond gewond gewond van gewon. | | | · service and the service and | | | | de la companya del companya de la companya del companya de la comp | |
| 9 H. T | otal Process Emissions | entra de la companya de la capación | 0.66 | 12.5 | مسايات والمراجعة والمراجع والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة | 1.08 | 10649.30 | Andrew delices to the appropriate the first terms of the first terms o | - Mindo ship helitimateri magicipario- | | en egaskene samusky i Droce |
| F A. I | Waste Disposal Incineration | | 3.7 | 0.6 | | | The second secon | W, who manufactures right tip. | | and the control of th | |
| | Point pen Burning | | | 189,3 | : ! | | | | | The second secon | } • |
| 1 | Area Point | <i>!</i> | | | | | mg. | | | | 1 |
| C. T | otal Solid Waste Disposal | And the second s | 3.7 | 189.9 | many garage and and a second | | 755.68 | | | | 1 |
| A. M | portation otor Vehicles Gasoline Diesel | 3293.2 34.22 | 1671.5 17.37 | 2201.9 22.89 | 742:6 | 481.5 5.0 | | | • | | |
| 3. C C. A D. F | Off-Highway Usage Aircraft Railroads | And the second s | 0.04 | 0.58 | | 1 | | | Land, a georgia de la calcada | - Consider the Consider to | |
| F. G | Vessels Jasoline Handling Yotal Transportation | 217.5 3544.92 | 110.4 1799.31 | 145.4 2370.77 | 49.0 799.3 | 31.8 | 132049.98 | | | A CONTRACTOR OF THE PROPERTY O | *. |
| \$ 9 | ocar italishorracion | ******* | ******** | 23/4.77 | /22.3 | 1 310.3 | 177042.30 | gen general variable share to 1,2000 share a variable par | E | alle camp improblement and advantagement . | ن يا در موسود |
| , , | | | | | | | | · | | | |
| • | | | | | | | | | | | |

| Commission of the second | REGION: 1 | Wortheast_ | | | • | | | | | |
|--------------------------------|-----------|------------|----------|---------|----------|---------|-----------|---------|--|---|
| llydrocarbon | Alachua | Baker | Bradford | Clay | Columbid | Dixie | Duval | Flagler | Franklia | Carterlan. |
| Miscellaneous Area Sources | | | | | | | | | angunian and the despetation of the second | attenue de la la la la la la la la la la la la la |
| A. Forest Fires | 192.2 | 68.2 | 60.9 | 380.5 | 89.0 | 40.8 | 482.0 | 101.9 | 75.1 | 30.0 |
| B. Agricultural, Silvicultural | 1176.0 | 562.3 | 373.0 | 570.5 | 733.5 | 141.8 | 721.7 | 874.1 | 170.7 | 709.9 |
| and Landelearing Burning | | | | | | | , , , , , | W/7/3 | 270.7 | 103.3 |
| C. Grove Protection | | | | | | | | | | |
| D. Total Miscellaneous | 1368.2 | 630.5 | 433.9 | 951.0 | 822.5 | 182.6 | 1203.7 | 976.0 | 245 8 | 739.9 |
| Lrand Total | 14045.57 | 1618.75 | 2429.62 | 2672.47 | 4609.4 | 1073.32 | 72286.06 | 1436.36 | 1132.35 | 2968.8 |
| A. Area | 13973:11 | 1618:75 | 2429.22 | 2663.07 | 4561.70 | 1073.32 | 60543.96 | 1436.36 | 1132.35 | 2709.50 |
| 3. Point | 72.46 | 0.00 | 0.40 | 9,40 | 47.70 | 00_ | 11742 10 | 0.00_ | ــــــــــــــــــــــــــــــــــــــ | 259.30 |

^{** -} Accounting for emission reduction from automobiles in 1975 and assuming no emission growth or reduction from other sources, the expected total emissions in 1975 will be 52,216 tons or approximately 28% reduction.

| 0 | CTATE: Hydrocarbon | REGION: | Northeast. | regional de la constantina della constantina del | The state of the s | ora a Fanancia na como contrato esperancia con seguente a | or the second control of the second for the second | THE PERSON OF TH | | | |
|-----|--|-----------|-----------------|--|--|---|---|--|-----------------|---------|--------------------|
| 1 T | | Gilchrist | <u>Hamilton</u> | Jefferson | Lafayette | Leon | Liberty | Madison | Marion | Nassau | Putnam- |
| - L | Miscellaneous Area Sources A. Forest Fires | 57.1 | E0 3 | 74 3 | 72.0 | 70 2 | 7.7.m m | | | | |
| | B. Agricultural, Silvicultural | | 59.3 489.0 | 34.1 806.7 | 111:0 | 903:6 | 117.5 267.1 | 42.6 148.0 | 260.1 1152.0 | 405.9 | 164.0 |
| | and Landelearing Burning | | | | | | 207.1 | 140.0 | 1 | 608.6 | 1004.2 |
| | C. Grove Protection | | | | | ē | | | 174.0 | | 34.0 |
| | D. Total Miscellaneous | 309.4 | 548.3 | 840.8 | 143.0 | 941.8 | 384.6 | 190.6 | 1586.1 | 1014.5 | 1202.2 |
| II | Grand Total | 675.08 | 2651.53 | 1570.32 | 397.08 | 12315.84 | 555.95 | 2058.82 | 18906.56 | 3790.33 | 6856.98 |
| | A. Area | 675.08 | | 1570.32 | 397.08 | 12177.04 | 555.95 | 2058.82 | 18621.26 | 3283.43 | 3979.08 |
| | B. Point | 0.00 | 22.60 | 0.00 | 0.00 | | | امَّفْ مَ | 285_30j | 506.90 | 3979.00 2877.90 |

1 1

Miscellaneous Area Sources
A. Forest Fires
B. Agricultural, Silvicultural and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
Grand Total
A. Area
B. Point

| | REGION: N | uribeast | | S Lawrence and the complete description of the complete | A THE CONTRACT OF STREET | and the second s | | | | |
|--|------------------|---------------|---------------|---|--------------------------|--|--|------|--|----------------------|
| | St. Johns | Suwannee | Taylor | _Union_ | Wakulla | TOTALS | and the first bulb has an employed Higher a | 1,00 | | |
| and the second second second | 124.5 1068.4 | 80.1 660.1 | 62.1 215.8 | 51.6 315.6 | 34.1 806.7 | | | | | |
| l | 1192.9 | 740.2 | 277.9 | 367.2 | 840.8 | 18134 40 | | | The state of the s | ue > m ellocom, many |
| | 4743.6 | 2591.98 | 3132.10 | 1167.46 | | 167213.87 | of one of the stat | | an authorized a first state of the same of | C W |
| Separate Sep | 474 3 :80 | 2549.22 | 2959:28 | 1167:48 | | 150564.07 16649.80 | And the second s | | | |

: Lurant: Nitrogen Oxide

REGION: Mortheast

| I. | | l Compustion | Alachua | Baker | Bradferd | C1 ay | Columbia | Dixic | Duval | Flagler | Frantlin | Cadsdon |
|----|-----|--|---------|-------|----------|-------|----------|-------|---------------|---------|---|----------|
| | A. | Residential and Institutional Fuel 1. Coal or Coke | | · | | | , | · | | | | T3401) |
| | | a. Area b. Point 2. Distillate Oil | | | | | - | | | | | 43.8 |
| 1. | | a. Area b. Point | 58.37 | 5.16 | 8.45 | 13.59 | 10.16 | 2.47 | 321.2 | 2.08 | 2.04 | 2.81 |
| | *** | 3. Residual Oil a. Area b. Point | 3.9 | 0.34 | 0.54 | 1.2 | 0.94 | 0.2 | 19.6 | 0.17 | 0.26 | 1.45 |
| | | 4. Natural Gas* a. Area b. Point | 8.17 | 0.72 | 1.14 | 2.5 | 1.97 | 0.35 | 41.25 | 0.35 | 0.55 | 3.05 |
| | | 5. Combination a. Area b. Point | • | | | | | | | | | |
| | В. | Commercial 1. Distillate Oil a. Area | 9.92 | 1.35 | 2.32 | 2.37 | 1.56 | 0.48 | 92.41 | 0.44 | 0.57 | 0.92 |
| C | | b. Point 2. Residual Cil a. Area | 3.51 | | 2.02 | 2.3. | | 0.70 | | | J | |
| 55 | c. | b. Point Industrial Fuel | | | | | | · | | | | |
| | | 1. Coal or Coke a. Area b. Point | | | | | | | | | • • | |
| | | 2. Distillate Oil a. Area b. Point | • | • | | | • | | 48.2 | | | |
| | | 3. Residual Oil a. Area b. Point | | | | 134.7 | - | • | 14.8 124.8 | 14.2 | · • • • • • • • • • • • • • • • • • • • | |
| | | 4. Natural Gas a. Area | N. | | | | | | | | | |
| | | b. Point 5. Process Gas a. Area | | | | | | | | | | |
| | | b. Point | 1 | | <u> </u> | | <u> </u> | | <u> </u> | L: | | <u> </u> |

^{*} Includes Commercial Uses

PARTSION INVENTORY SCHMARCE (BY COUNTY)

| | Fuel Combustion A. Residential and | Lüllchrist | | | | | | | | | |
|---|--|------------|-----------|------------|-----------|-------|-----------|----------|---------|--------|--|
| | | | Hauriton- | Luciforson | Lafayette | Leon | _Liberty_ | Madison_ | _Marion | Nassau | Putnam_ |
| | Institutional Fuel | | | | | | | 1 | · | | |
| | 1. Coal or Coke | , | | | | | | | | | |
| | a. Area | | | | | | | | | | 1 |
| | b. Point | | | 1 | | | | | | | |
| | 2. Distillate Oil | • | | | | | | | | | |
| | a. Area | 1.52 | 2.88 | 3.80 | 1.15 | 45.36 | 1.05 | 4.8 | 30.16 | 10.42 | 18.84 |
| | b. Point | | | | | | | | | | |
| | 3. Residual Oil | | | | | ~ | | | | | |
| | a. Area | 0.13 | 0.3 | 0.33 | 0.1 | 3.82 | 0.13 | 0.5 | 2.6 | 0.77 | 1.35 |
| | b. Point4. Natural Gas* | 1 | 1 | | | | | | | | |
| | a. Area | 0.28 | 0.61 | 0.68 | 0.23 | 8.04 | 0.26 | 1.05 | 5.38 | 7 61 | 2 07 |
| | b. Point | 0.25 | 0.01 | 0.00 | 0.23 | 0.04 | 0.20 | 1.05 | 3.30 | 1.61 | 2.83 |
| | 5. Combination | | | | | | | - | e e | | |
| | a. Area | | | : | | | | | | | |
| | b. Point | | | | | | | | | , | |
| | B. Commercial | | | 1. | | · | | | | | |
| | l. Distillate Oil | , , , , , | | | | | | | | | Delta de la companio del companio de la companio de la companio del companio de la companio della companio della companio de la companio dell |
| | a. Area | 0.29 | 0.34 | 0.70 | 0.20 | 8.53 | | 0.50 | 5.61 | 2.44 | 4.6 |
| | b. Point | | | | | | | | | | f . |
| • | 2. Residual Oil | | | . 1 | | | | | | · | Ì |
| | a. Area b. Point | | Į | | | | | | | | |
| | C. Industrial Fuel | | | | • | | | | | | |
| _ | 1. Coal or Coke | | | | | | | | | | |
| Q | a. Area | | 1 | | | | | | | | |
| S | b. Point | | | | | | | , | · | ٠ | |
| S | 2. Distillate Oil | | | | | | | | | | - |
| | a. Area | | | | | • | | | | • | |
| | b. Point | | | | | · | | | | | |
| | Residual Oil | | | | _ | - · | | | | • | |
| | a. Area | | | | • | , | - | | - | 7.94 | 1240 7 |
| | b. Point | . | | <u> </u> | • | | | • | - | | 1240.7 |
| ٠ | 4. Natural Gas | | 6.3 | | | | | | | | 1 |
| | a. Area b. Point | | 1 0.3 | | | | 1 | 1 | | | - |
| | 5. Process Gas | | | | | , | | | | | |
| • | a. Area | | | | | | | į | | | ľ |
| | b. Point | | | | | | | | | | 1 |

^{- *} Troludes Commercial Uses

| PELLUTANT: Nitrogen Oxide | R | EGION: Nor | theast | | | | , | | | |
|--|-------|------------|--------|-------|---------|------------|--------------|---|----|-----|
| I. Fuel Combustion | 1 1 | Suwannee | i e | Union | Wakulla | | | | | |
| A. Residential and | • | | | | , | | | | | · |
| Institutional Fuel 1. Coal or Coke | | · | | • | | | | | | |
| a. Area | | | | · | | | | | | 1 |
| b. Point | | | | 1 | | 1 | | | ' | |
| 2. Distillate Oil | | | | | | | | | , | |
| a. Area b. Point | 19.59 | 13.79 | 5.3 | 3.06 | 2.44 | į | | | | |
| 3. Residual Oil | | | | į | | - | | | | |
| a. Area | 1.14 | 0.58 | 0.5 | 0.3 | 0.23 | | 1 | | · | |
| b. Point4. Natural Gas* | | | | | | 1 | | | | |
| a. Area | 2.4 | 1.21 | 1.06 | 0.63 | 0.49 | | | • | | .] |
| b. Point | | | | | | | | • | | |
| 5. Combination | > | | | | | | | | • | |
| a. Area b. Point | | | • | | | | | - | | |
| B. Commercial | | | | | ľ | } | | | | |
| Distillate Oil | 5.82 | F 12 | 0.74 | 0.70 | 0.77 | | | | | |
| a. Area b. Point | 3.82 | 5.12 | 0.74 | 0.38 | 0.33 | j . | | | | 1 |
| 2. Residual Oil | | | | | | | | | | - |
| a. Area | | | | | | | | | | |
| n b. Point | | | | | | | | | • | |
| C. Industrial Fuel 1. Coal or Coke | | | | | | | | | | |
| a. Area | | | - | | | | | | | f |
| b. Point | | | | | | | | , | ٠. | |
| 2. Distillate Oil a. Area | | | | | | | | | | |
| b. Point | | | | | | | | | | |
| Residual Oil | | | | | | | | | • | |
| a. Area | | 67.9 | | | 34.4 | | | * | - | |
| b. Point 4. Natural Gas | | 0,., | , | , | | | | | | |
| a. Area | | | | | | | | | | |
| b. Point | | | | 1 | | | | * | | |
| 5. Process Gas a. Area | | | | | 1 | | 1 | | | ! |
| b Point | | | | | † | 1 | | | | |

^{*} Includes Commercial Uses

| أنبأ كذ | La La UUT A | WT: Nitrogen Oxide | REGION: | Northeas Baker | Bradford | Clay | Columbia | Dixie | Duval | Flagler | Franklin | Gadsda |
|----------------|-------------|---|--|--|--|--|---|--|--|--|--|-------------------------------|
| | | 6. Wood or Bark | BLACUII | DAKPI | | | 0020m014 | | | | a to the same of t | T |
| | | a. Area b. Point | 94.9 | | | | | 2.19 | | | | |
| | | 7. Combination | | | | , | | , | | | • • | 34. |
| | | a. Area | | | ~ | <i>3</i> . | | | 4618.9 | | | |
| * | T's | b. Point Total Fuel | 175.26 | 7.57. | 12.45 | 154.36 | 14.63 | 5.69 | 5281.16 | 17.24 | 7 40 | |
| | | Combustion | | | 1000 | 107.00 | 17.03 | 2.03 | 3201.10 | 1/.44 | 3,42 | 86. |
| II | . Pow | er Plants | | | | | * Mary publicati | | | | | |
| | Α. | | | | 102.8 | | | | | | | |
| | B. C. | Distillate Oil Residual Oil | | | 102.0 | | | | 21011.4 | | | |
| | | Natural Gas | | | | | | | 21011.4 | | | |
| - | . B. | Combination | 703.9 | erikerengen, idlerdis (niggepynnernsyndyns i dendyndyn | | | | | | | Projektive kir rekressiller servedigiselleriler i jelen e melge | |
| | F. | | 703.9 | The state of the | 102.8 | | | hanna the state of the State of | 21011.4 | | | Total week |
| III | . Pro | cess Emissions Chemical | n-tage of | | | | | | · . | · | | |
| | | Food and Agriculture | | | | | | | 17.5 | | : | |
| | | Metallurgical | 0.2 | | | | | ٠. | 1/.3 | | | |
| | D. | Mineral | 21,1 | | | 183.3 | | | 128.2 | | | 7. |
| | | Wood | and the state of t | | | | | · | 262.5 | | | |
| | ľ. | Petroleum Storage Petrochemical Operations | ah Lilleng | • | | | editoria e e e e | | -> | | . * | |
| | H. | Total Projess Emissions | 21.3 | elium aturiteksimin yettergetik ustavensta tir timi i | The Transport of the State of t | 188.3 | | - And the second of the second | 428.2 | | | 1. |
| IV. | Sol | id Waste Disposal | entition of the feedballour descriptions of the second | anteria in generalismone elim elitti e contellità Christophia — e ma | eri i kanandini di kanan di mataya da kanan da kanan da kanan da kanan da kanan da kanan da kanan da kanan da k | Condern and seem assessment on the AS - residence variety | en de altre de la companya de desta de la companya de la companya de la companya de la companya de la companya | entres into dates a subsequent sandes a Niverbu | The second second second | ······································ | CONTRACTOR OF THE PROPERTY OF | manus in the angelos fields. |
| | A. | Incineration | A 20 | | | | | | Control of the Contro | | | |
| Ó | | 1. Area 2. Point | 4.0 | | 1.05 | 0.5 | 4.9 | | 25.6 | 20.9 | . | |
| . C | В. | Open Burning | | - | | | | * | of Comments of the Comments of | | - | Labore |
| ර _ි | | 1. Area | | | no. india. | | To Control | | - | | • | ĺ |
| | _ | 2. Point | | ene coppessability de santantementative (; en , en empira elément | | manufaction of the control of the co | The same that the same of the | at a telephone announce or recommendation was to be | | | ter de se et enclosed par les estades estades estades estades | Amerikan on a stall other our |
| | C. | | 4.0 | : Hereit forterio vormounter rempresidentifritation | 1.05 | 0.5 | 4.9 | edama delitika er ocu universitä tiin een piiristi mõhelelelelelele | 25.6 | 20.9 | ~~ Taller () Taller To Trail College State of the | - |
| ν. | | nsportation Motor Vehicles | | | | | | | C. C. C. C. C. C. C. C. C. C. C. C. C. C | | 6.5 | |
| | | | 6877.3 | 833.1 | 1674.7 | 1435.6 | 3153.2 | 749.5 | 30765.9 | 388.1 | 747.7 | 1636. |
| 1 | | 2. Diesel | 535.73 | 55.46 | 111.92 | 95.79 | 210.73 | 50.08 | 2396.7 | 25.9 | 49.74 | 109. |
| • | | Off-Highway Usage | | | Agent Investigation | | Parameter (Inc.) | • | | | | No. |
| | | Aircraft Rallroads | 29.6 | | 3.4 | | | | 1080.1 889.2 | | • | 70 |
| | | Vessels | 22.0 | | | 100 | | | 88.8 | est and a | | 39. |
| | | Gasoline Handling | | | | | - | | İ | | , | |
| | G. | Total Transportation | 7442.63 | 888.56 | 1790.02 | 1531.39 | 3363.93 | 799,58 | 35220.7 | 414.0 | 797.44 | 1784. |
| | | , - me | / | | granistic production of the second | | | | | | , | |
| | | | | | | | • | | | | | |
| | Γ. | | | • | * | | | | | | | |
| | | | •• | | • | | | | | • | | |

| POLLUT | ANT: Nitrogen Oxide | REGION: | Northea | st | | | tigger a see | | | • | |
|----------|----------------------------|--|--|--|--|--|--|--|--|--|--------|
| | | | | Jefferson | Lafayette | Leon_ | Liberty | Madison_ | Marion_ | Nassau | Putn |
| | 6. Wood or Bark | | | · | , | | | | | .,. | |
| | a. Area | | 1 | | | | į | · · | | | |
| | b. Point | | | | j | | 1 | | ! | | |
| | 7. Combination | | , | _ | | | | | , 1 | • | |
| | a. Area b. Point | | , | | · · | , | | | | 3980.0 | |
| T | Total Fuel | 2.22 | 10.43. | 5.51 | 1.68 | / | | | 43.75 | 800 7 70 | 1 |
| , D. | Combustion | 4 · 6 · 6 | 10.43. | 3.31 | 1.08 | 65.75 | 1.44 | 6.85 | 43.73 | 4003.18 | 1268. |
| TT DO | wer Plants | *** | 3 | | | | | | | | ļ |
| | Coal | | | | Ť | | | | | 4 | 1 |
| | Distillate Oil | | ٠, | | | | | | | • | , |
| | Residual Oil | | | | | | | | | | |
| | Natural Gas | | | | | | | | | | |
| | Combination | | | | | _1067.7 | , | | | • | 25661. |
| 7. | | | | | The special control of the second control of | 1067.7 | | - Common Marie Color Col | | | 25661. |
| | cess Emissions | AND SECURITIONS AND PROPERTY OF THE PROPERTY OF | descripture (Tribit Lingston Annick Lingston Line (Line) and the second of the | Constitution of the party of the control of the con | | WALL AND AND AND AND AND AND AND AND AND AND | | attender die ter er von der jagen der Franzische der | The state of the s | A CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. | |
| | Chemical | | 129.1 | | | . , | | 4.5 | | | |
| В. | Food and Agriculture | | , | | • | | | | | 55.6 | |
| C. | Metallurgical , | | | | | | | | | | |
| D. | Mineral | - Y | | | , | 6.63 | | | 48.45 | | |
| E. | | | | | | | | | | | 46. |
| F. | | (| | | | | | ėj. | | | |
| | Petrochemical Operations | Managarian de mariante en amb de mariante de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della | | The same of the sa | | | | one of the state o | · constitution and cons | maggattatapapananananananananananananananana | - |
| H. | | obsequences | 129.1 | | | 6.63 | netr covers, integral british or purgatiful propriet propriet | | 48.45 | 55.6 | 46. |
| IV. So: | Lid Waste Disposal | | | | | المراجع المراجع | | | | | |
| . A. | Incineration | | 7 67 | | | 4.8 | | | 3.6 | 0.2 | 17. |
| | 1. Area | | 1.43 | | | 4.0 | | | 2.0 | 0.2 | 1 2. |
| | 2. Point | | | | | | | | | | |
| в. | Open Burning | 1 | | | | | | | | | ľ |
| • | 1. Area 2. Point | | | | | | , | | · | | |
| · · | Total Solid Waste Disposal | And the Control of th | 1.43 | | Magazarian Militaria di dingga a firi yan sira | 4.8 | Tell and restaurable production of the production of the control o | e any taoneer in an old office and any state of the same of | 3.6 | 0.2 | 17. |
| | insportation | tageagailtí (tagealt Carris aidth aidt aidte a Pagryon | and the company of th | Andrew Manager Triputing policy is commended to any process with | many condition described to the state of the second | A D | Committee of the contract of t | ALL SHIP AND THE WARE LITTERS OF THE PROPERTY AND THE PARTY. | 3.0 | U. 4 | 1. |
| V | Notor Vehicles | | | | | | | | | • | |
| n. | 1. Gasoline | 308.4 | 1739.4 | 615.2 | 214.2 | 6107.6 | 144.4 | 1576.0 | 7406.4 | 1912.5 | 2334 |
| 7 | 2. Diesel | 20.5 | 115.95 | 40.67 | 14.12 | 475.6 | 9.4 | 105.2 | 495.1 | 127.7 | 156 |
| Ħ | Off-Highway Usage | | | | | | | | | | |
| | Aircraft | | | | | 61.0 | | | | | |
| Ď. | Railroads | | | | · | 31.1 | | | ઉ.5 | 0.2 | б |
| Ĕ. | | | | | | | 1 | | | | |
| r. | | | | | 1. | | | | | | |
| 6 | Total Transportation | 328.9 | 1855.35 | 655.87 | 228.32 | 6675.3 | 153.8 | 1681.2 | 7910.0 | 2040.4 | 2496. |

| | n meteo dina n | | e | | | | | | | | | |
|-----|----------------|--|-----------|----------------------|-------------|-------|---------|----------|---------------------------------------|---|--|---------------------|
| | | | | | | | | | şia- | | | |
| | | • | | 37 | | | • | | | | | |
| | 2 | LLUTAUT: Nitrogen Oxide | REGION: | Northeas Suwannee | | TT 2 | | TOTALS | | | | 1 |
| | | 6. Wood or Bark | Je. Johns | | Taylor | Union | Wakulla | TOTALS | | | | i |
| | | a. Area b. Point | ; | 0.67 | | | | | | | : | |
| | | 7. Combination a. Acea | | 8.6 | 1652.6 | | | | | , | - | |
| | | b. Point D. Total Fuel | 28.95 | 97.87 | 1660.20 | 3,11 | 37.89 | 12995.36 | A LE TE OF THE STREET | | | |
| | T T | Combustion . Power Plants | | | | | | 13000.00 | | | | |
| | <u></u> . | A. Coal | | | | | | | | | | |
| | | B. Distillate Oil C. Residual Oil | | | | | | | | | | |
| | | D. Natural Gas E. Combination | | 604.2 | | | 1848.1 | | | | | • |
| | | F. Total Power Plants | | 604.2 | | | 1848.1 | 50999.80 | | | | |
| | • شف- | . Process Amissions A. Chamical | | | | | | | | | | |
| | | B. Food and Agriculture C. Meballurgical | | | | | | | | | | |
| | | D. Mineral E. Wood | | 16.8 | 249.11 | | 21.6 | | | | | |
| | | F. Petroloum Storage | | | | • | • | | | | | |
| _ | | G. Petrochemical Operations H. Total Frocess Emissions | | 16.8 | 249.11 | | 21.6 | 1219.39 | | | | |
| C-7 | İJ. | Solid Waste Disposal A. Incircration | | | | , | | · | , | | | |
| 70 | | 1. Area 2. Point | | 0.7 | - 17.5 | | | | | | | |
| | | B. Open Burning | | | | | · | | | | | : 1 |
| | | 1. Area 2. Point | | | | | | | Angelin of the published a sale. | | | ! - |
| | 7. | C. Total Solid Waste Disposal Transportation | | 0.7 | 17.5 | | | 102.68 | | | | ļ |
| | | A. Motor Vehicles 1. Casoline | 2992.9 | 1519.0 | 2001.1 | 674.9 | 437.6 | | | • | | • |
| | | 2. Diesel | 200.0 | 101.5 | 133.76 | 45.0 | 29.24 | | | | | 1 |
| | Í | B. Off-Highway Usage C. Aircraft | | | 7 | , , | | | • | | | 1 |
| | | D. Railroads E. Vessels | | 0.53 | 0.87 | | | | | | 1 | ! |
| | 4 | F. Gasoline Handling | | | | | | | | | | <u>.</u> |
| • | | -G. Total Transportation | 3192.9 | 1621.03 | 2135.63 | | 466.84 | 86195.22 | · · · · · · · · · · · · · · · · · · · | 1 | ter en en en en en en en en en en en en en | . |
| | | | • | | | . • | • | | | | | |
| | | · | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| Nitrogen Oxide | REGION: Alachua | Northeast Baker | Bradford | Clay i | Columbia | Dixie | Duva1 | Flagler | Franklin | Gadsdon |
|--|--------------------|--------------------|--------------------|--------------------|--------------|-------------------------|----------------------|------------------|--------------|--------------------|
| Niscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection | 32.0 | 11.4 56.2 | 10.1 37.3 | 63.4 57.0 | 14.8 73.3 | 6.8 | 80.3 72.2 | 17.0 87.4 | 12.5 17.1 | 5.0 71.0 |
| D. Total Miscellaneous | 147.6 | 67.6 | 47.4 | 120.4 | 88.1 | 21.0 | 152.5 | 104.4 | 29.6 | 76.0 |
| Grand Total A. Area | 8494.69 7674.59 | | 1953.72 1850.92 | 1994.95 1671.95 | | 826 <u>27</u> 826 27 | 62119.56 35888.06 | 556.54 556.54 | | 1955,16 1869,06 |
| B. Point | 820.10 | | 102.80 | 323.00 | | 0.00 | 26231.50 | 0.00 | | 86 10 |

| | | | | | - | | | | · | |
|---|---|--------------------|--|----------------|--|---|---|------------------------|--------------------|-----------------------|
| OTANT: Nitrogen Oxide | REGION: | Northeast. | gh readon of the second of the | | ************************************** | erre en statue en escargator abasecca escarganos. | mentanan kan dagi dagi ili ili ili dagi | - | | |
| Miscellaneous Area Sources | Gilchrist | Hamilton | Jefferson | Lafayette | Leon | Liberty | Madison | Marion | Nassau 🖖 | Putnam_ |
| A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection | 25.2 | 9.9 48.9 | 5.7 80.7 | 5.3 11.1 | 6.4 90.3 | 19.6 26.7 | 7.1 14.8 | 43.4 115.2 123.0 | 67.6 60.9 | 27.4 100.4 24.0 |
| D. Total Miscellaneous | 25.2 | 58.8 | 86.4 | 16.4 | 96.7 | 46.3 | 21.9 | 281.6 | 128.5 | 151.8 |
| Grand Total A. Area | $\begin{array}{r r} 356.32 \\ \hline 356.32 \\ \end{array}$ | 2055.11 1926.01 | 747.78 | 246.40 | 7916.88 6842.55 | 201,54 | 1709.95 | 8287.40 | .6,22788 | 29642.42 |
| B. Point | 0.00 | 129.10 | 0.00 | 246.40 0.00 | 1074.33 | 201.54 | 1709.95 0.00 | 8238.95 48.45 | 2192.28 4035.60 | 2693.62 26948.80 |
| | | | • | | | | | | | |
| • • | | | | | | | | | • | |
| | | | ٠. | | | | | * | • | |
| | | | • | | | | | | * | |

| | . | | | | | | | | | |
|---|----------------------------|-------------------|--------------------|--|-------------|-----------------------------------|--|--|-----|---|
| Nitrogen Oxide | region: X | orthoust_ | m | and the commence of the commen | | Lmomara | annessa i standard (1812 - 1813 - 1814) | | | |
| Miscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural | St. Johns 20.8 106.8 | 13.3 66.0 | 10.4 21.6 | Union 8.6 31.6 | 5.7 80.7 | TOTALS | ikk sar gem gek can an aangarama .e | Summer Su | | |
| and Landolearing Burning C. Grove Protection D. Total Miscellaneous Grand Total | 127.6 | 79.3 2419.9 | 32.0 | 40.2 | 86.4 | 2133.70 153646.15 | | | | |
| A. Area B. Point | 3349.45 0.00 | 1722.40 697.50 | 2192.73 1901.71 | 763.21 763.21 0.00 | | 153646.15 89343.06 64303.09 | - They was profession from the Section of the Secti | | | |
| | | | • | | - | | | v. | Į. | X |
| | i V . | | • | | , | | \$.2 | | . • | • |
| | | | | | • | | | | | • |
| | | | | | | | | | ٠ | |

EMISSION INVENTORY SUMMARY
West Central Florida Intrastate AQCR

| POL | LUTAND: Particulate | • | REGION: Wes | st Centra | | 1 | To the second se | · · | 3 | | |
|-----|--|--|-------------|-----------|-----------|----------|--|---------------------|--------------------|--|--|
| I. | Fuel Combustion | Citrus | Citrus ** | Hardee | Hardee ** | Hermando | Hernando* | Hills-** borough | Hills** borough | Levy | Levy ** |
| | A. Residential and Institutional Fuel 1. Coal or Coke a. Area | | | | | | | | | | de estado en est |
| | b. Point 2. Distillate Oil a. Area b. Point | 4.63 | 4.68 | 2.8 | 2.8 | 3.82 | 3.82 | 183.1 | 183.1 | 3.89 | 3.89 |
| | 3. Residual Oil a. Area b. Point | 0.3 | 0.3 | 0.23 | 0.23 | 0.26 | 0.26 | 7.5 | 7.5 | 0.2 | 0.2 |
| | 4. Natural Gas* a. Area b. Point 5. Combination | 0.55 | 0.55 | 0.42 | 0.42 | 0.48 | 0.48 | 13.95 | 13.95 | 0.34 | 0.34 |
| | a. Area b. Point B. Commercial | - | | | | | | χ. | | Total Control | |
| | l. Distillate Oil a. Area b. Point | 0.51 | 0.51 | 70.22 | 0.22 | 0.36 | 0.36 | 26.85 | 26.85 | 0.52 | 0.52 |
| C-7 | Residual Oil Area Point | | | | • | | | 25.0 | 25.0 | | |
| UI | C. Industrial Fuel 1. Coal or Coke a. Area | | | | | | | | | | |
| | b. Point 2. Distillate Oil a. Area b. Point | | | - | | | | 85.0 | 85.0 | Section 1 | |
| | 3. Residual Oil a. Area b. Point | | | | | 4.8 | 4.8 | 39.0 545.0 | 39.0 545.0 | | |
| • | 4. Natural Gas a. Area b. Point | e visit indicate de la constan | | | | | | 48.0 38.0 | 48.0 38.0 | Free and the state of the state | |
| | 5. Process Gas a. Area | | | | | | | 41.0 | 41.0 | 7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | |

^{*} Includes Commercial Uses

^{**} Emissions Achieved Applying Chapter 17-2 FAC

| POL | LUTANT: Particulate | | REGION: We | st Centra | l Florida | | | | | | |
|-----|--|---------|------------|----------------|-----------|----------|-----------|-----------|---------|--------------|--|
| I. | Fuel Combustion | Manatee | Mantee ** | Pasco | Pasco ** | Pinellas | Pinellas* | Polk | Polk ** | Sumter | Sumter** |
| | A. Residential and | | | | | | | | | , | |
| | Institutional Fuel l. Coal or Coke | | | | | | | | | | |
| | a. Area | | | | | | | | | | |
| | b. Point2. Distillate Oil | | | | | | | | | | - |
| | a. Area | 21.28 | 21.28 | 16.6 | 16.6 | 151.4 | 151.4 | 65.44 | 65.44 | 4.11 | 4.11 |
| | b. Point | | | - , | | • | | | | - | |
| | Residual Oil Area | 1.5 | 1.5 | 1.17 | 1.17 | 8.0 | 8.0 | 3.5 | 3, 5 | 0.23 | 0.23 |
| | b. Point | 1 | 1.5 | | 1, | | 0.0 | 7. | 3,,, | 0.23 | 0.23 |
| | 4. Natural Gas* a. Area | 2.76 | 2.76 | 2.16 | 2.16 | 14.86 | 14.86 | 6.46 | 6.46 | 0.40 | 0.42 |
| | b. Point | 2.70 | 2.70 | 2.10 | 2.10 | 14.00 | 14.60 | 0.40 | 0.40 | 0.42 | 0.42 |
| | 5. Combination | ` | | | | , | | | | ` | |
| | a. Area b. Point | | | | | | | | | | and a grant of the state of the |
| | B. Commercial | | | | | * | | | | | |
| | l. Distillate Oil a. Area | 2.07 | 2.07 | 1.42 | 1.42 | 19.15 | 19.15 | 8.25 | 8.25 | 0.50 | 0.50 |
| | b. Point | 2.07 | | 7.46 | 1.74 | 15.13 | 15.13 | 0.23 | 0.23 | 0.50 | 0.30 |
| | 2. Residual Oil | | | | | | | | | | |
| ်ဂ | a. Area b. Point |) | | | | · - | | • | | | |
| -7 | C. Industrial Fuel | | 1 | • | | • | | | | | |
| O | Coal or Coke Area | | | | | · | | | | | |
| - | b. Point | | | | | | | | | | İ |
| | 2. Distillate Oil | | | ē | | | | | | | |
| | a. Area b. Point | | | • | - | | | | | | |
| | Residual Oil | | | | | | | | - | • | |
| | a. Area | 5.45 | 5.45 | | 1 | 4.5 | 4.5 | 6.5 | 6.5 | | |
| | b. Point4. Natural Gas | | | 117.9 | 117.9 | 35.8 | 35.8 | 26.4 | 26.4 | | |
| • | a. Area | | | | | | | | | | ! |
| | b. Point5. Process Gas | | | | | | | | | , | |
| | a. Area | | | | | | | | | | 1 |

^{*} Includes Commorgial Uses

** Emissions Achieved Applying Chapter 17-2 FAC

| | | ANT: Particulate | Citrus | : West Cent | | Hardeess | Hernando | Hernando* | Wills - ** | Hills-** | Levy | Levy** |
|------|----------|---|---|-------------|--|----------|--------------|-----------|-------------|-----------|--|--|
| | | 6. Wood or Bark | g, manage , and decrease a new | | | | 1 | lanco | borough | - borougn | | |
| | | a. Area | | | | | | | 2.0 | 2.0 | , | 1 |
| | | b. Point7. Combination | | 1 | | | | | | | 784.0 | 784.0 |
| | | a. Area | | 1 | - | | ţ | | | | | - |
| | | b. Point | | | | | | | | | | |
| | D. | Total Fuel | 6.04 | 6.04. | 3.67 | 3.67 | 9.72 | 9.72 | 1054.4 | 1054.4 | 788.95 | 788.95 |
| • • | 7 | Combustion | | | The state of the s | | | | | | ogrammelien, de Emiliade austro esta establica e programa. | The state of the s |
| II. | | ver Plants | | | | | Į. | | | 1 | | ļ |
| | Α. | Coal | | | | | | | 5569.0 | 3625.77 | | |
| | В. | Distillate Oil | | Į | | _ | | | 3303.0 | | | |
| | c. | Residual Oil Natural Gas | | | | | | ¥0. | 240.3 | 240.3 | | |
| | D. E. | Combination | 3403.63 | 2319.40 | | | | 1 | of color of | | 38.25 | 38.25 |
| | F. | Total Power Plants | 3403.63 | 2319.40 | | - | i i | | 5809.3 | 3866.07 | 38,25 | 38.25 |
| III. | | cess Emissions | 220100 | 2020.70 | | - | 1 | | | 3000.07 | 38.43 | 40.64 |
| | Α. | Chemical | | 1 | | | Ì | - | 86.0 | 47.3 | | |
| | B. | | | | | | 75.3 | 30.0 | 758.0 | 758.0 | | |
| | C. | Metallurgical | | | | | | | 1356.0 | 1317.1 | | |
| | D. | Mineral · | | | | | 84.2 | 84.2 | 3069.0 | 2140.4 | 265.2 | 47.1 |
| | Ε. | Wood | | | | | | | |] | | |
| | P. | Petroleum Storage | | | | | | | | | | |
| | G. H. | Petrochemical Operations Total Process Emissions | | | -11: | | 159.5 | 3340 | 5273.0 | 4262.8 | 265.2 | 47.1 |
| IV. | | id Waste Disposal | | | - | | 123.2 | 1-44.6 | 22/3.0 | 4202.0 | 255.2 | 4/.3 |
| ~ | | Incineration | | | | | 1 | | | | | 1 |
| | | 1. Area | 1.93 | 1.93 | 0.95 | 0.95 | 1.81 | 1.81 | 58.0 | 58.0 | | |
| | | 2. Point | | | | | | | 1769.0 | 1769.0 | | j |
| | в. | Open Burning | | | | | | İ | | . 1 | | |
| | | 1. Area | • | | | | | | 383.0 | 383.0 | | |
| | ~ | 2. Point | | 1.93 | 0.95 | 0.95 | 1.81 | 1 03 | 2210.0 | 2210.0 | | |
| v. | | Total Solid Waste Disposal nsportation | 1.93 | 1.93 | 0.95 | 0.93 | 7.97 | 1.61 | 2210.0 | 2210.0 | | |
| | T T C | Motor Vehicles | | | 1 | | | | - | • | | |
| | 44. | 1. Gasoline | 43.8 | 43.8 | 24.4 | 24.4 | 27 7 | 31.7 | 1119.5 | 1119.5 | 277 1 | 37.1 |
| | | 2. Diesel | 43.8 6.96 | 6.96 | 4.03 | 4.03 | 31.7 5.05 | 5.05 | | 178.21 | ³⁷ :1 ₈₉ | 5.83 |
| | В. | Off-Highway Usage | | 0.30 | | 4.03 | | 3.03 | | 1 2/0.21 | | 3.03 |
| | C. | Aircraft | | | | | | 4 | 579.0 | 579.0 | Ä | |
| | D. | Railroads | į | | _ | | 1.18 | 1.18 | 108.2 | 108.2 | 2 | 1 |
| | E. | Vessels . | | | | | | | 68.0 | 68.0 | | |
| | F. | Gasoline Handling | 50.76 | | | | | ļ | | | | |
| | G. | Total Transportation | 30.70 | 50.76 | 28.43 | 28.43 | 37.93 | <u> </u> | 2232.91 | 2232.91 | 42.99 | 42.99 |

a manife to a contract

| | | | ×3 | | ; | ,s | . , | | į. | | | 48.00 |
|---|----------|---|--|--|--|--|---------------|--|---|------------------------------|--------|--|
| | | | | | | | •. | . • • | | | g. | |
| | POLLUT | TANT: Particulate . | | : West Cent | | | | | | T = 1,1,1 | | T2 : |
| | | 6. Wood or Bark | Manatee | Manatee** | Pasco | Pasco ** | Pinellas | Pinellas' | POIK | Polk** | Sumter | Sumter |
| | | a. Area | | | | | | | | | | |
| | | b. Point | | | | •] | | | | - | | |
| | | 7. Combination a. Area | | | | | | | | | | |
| | | b. Point | | 1 | | | | 1.5 | 20.1 | 20.1 | | |
| | D. | . Total Fuel | 33,06 | 33.06 | 139.25 | 139.25 | 233.71 | 233.71 | 136.65 | 136.6 | 5.26 | 5.26 |
| | • | Combustion | A STATE OF THE PERSON NAMED OF THE PERSON NAMED IN POST OF | The state of the s | The second secon | | | The state of the s | | | | The same of the sa |
| | | ower Plants | | | - | | a. California | | | | | |
| | | . Coal . Distillate Oil | 1 | | | · · · · · · | | 1 | | ŀ | · . | |
| | | . Residual Oil | | | | | 81.55 | 81.55 | 49.37 | 49.37 | | |
| | | . Natural Gas | | | | | 2094.9 | 2094.9 | 43.78 | 43.78 | 1 | |
| | | . Combination | The state of the s | Same sample of the same same same same same same same sam | | - | | - | | for a visitable to married . | | |
| | F. | . Total Power Plants rocess Emissions | antipage committee of sporter of the more recommendation | The second secon | and reports - 4 to - the contract of the contr | The state of the s | 2176.45 | 21.76.45 | 93.15 | 93.15 | | - |
| | | . Chemical | 9.9 | 9.9 | | | 277.5 | 168.9 | 9404.9 | 1285.3 | | |
| | | . Food and Agriculture | 63.7 | 63.7 | 620.7 | 227.9 | 136.9 | 89.6 | 3496.8 | 747.1 | | |
| | C. | . Metallurgical | | | To grant and a second | | | | | 1 | | |
| | | . Mineral | 76.9 | 76.9 | 91.0 | 43.7 | 131.3 | 57.7 | 970.5 | 439.5 | 6795.4 | 65.1 |
| | | . Wood . Petroleum Storage | | | | | | | | | | |
| | G. | | | | | and the state of t | | | | | | |
| 2 | H. | . Total Process Emissions | 150.5 | 150.5 | 911.7 | 271.6 | 545.7 | 316.2 | 13462.5 | 2471.9 | 6795.4 | 65.1 |
| | IV. Sc | olid Waste Disposal | | | | | | | | | | |
| S | A. | . Incineration 1. Area | 15.6 | | 5.56 | | 86.42 | 0.5.40 | 34.5 | | 1 | |
| | | 2. Point | 13.0 | 15.6 | 3.30 | 5.56 | 1 66.42 | 86.42 | 34.3 | 34.5 | | 1 |
| | В. | | | | | | | 7 | T in the second | | , | |
| | 4 | 1. Area | | | | | | | | | | |
| | · . | 2. Point | | | | - | | | | يبدنين سمستندا | | + |
| | V, Tr | . Total Solid Waste Disposa ransportation | 1 12.6 | 15.6 | 5.56 | $\frac{1}{5.56}$ | 86.42 | 85,42 | 34.5 | 34.5 | - | |
| | A TI | . Motor Vehicles | | | | | | | | . • | - | |
| | | 1. Gasoline | 145.0 | 145.0 | 97.1 | 97.1 | 754.2 | 754.2 | 436.3 | 436.3 | 47.1 | 47.1 |
| • | | 2. Diesel | 23.06 | 23.06 | 15.46 | 15.46 | 120.06 | 120.06 | 69.46 | 69.46 | | 74.49 |
| | | . Off-Highway Usage | | | | | | - | | | | |
| | C. D. | | 0.82 | 0.82 | | | 1 76 6 | 16.5 | - | 70.0 | | 02.0 |
| • | E. | | 0.02 | 0.02 | | | 16.5 | 10.5 | 70.8 | 70.8 | 82.0 | 82.0 |
| | F. | | | | | | | | | | 1 | |
| , | Ğ, | | 168.88 | 168.88 | 112.56 | 112.56 | 890.76 | 890.76 | 476.56 | 476.56 | 203.59 | 203.59 |
| | | | | | | • | | | | | | |
| | | | | | | | | | | | | |
| | | | 94 | | | | | | | | • | |
| | | | • | | | , | | | | • | | |
| | | \dot{a}_{i} | | | - | | | | | | | |

| por | LUTANT: Particulate | REGION | : West Ce | ntral Flor | ida | | | | | |
|------|--|----------|-----------|--|--|--|--|--|--|---|
| | | TOTALS | **TOTALS | | | | | | | |
| | 6. Wood or Barka. Areab. Point | | : | | ë | | | | | |
| | 7. Combinationa. Areab. Point | · | | | | | | TOTAL TOTAL PROPERTY OF THE MANAGEMENT AND COMMON. | mateur hayd da cadaddh haddh | |
| ıı. | D. Total Fuel Combustion Power Plants | 2410.71 | 2410.71 | | | | 2 | | | |
| | A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination | | | | | | | 1 | | |
| | F. Total Power Plants | 11520.78 | 8493.32 | | | | | | N page | 1 |
| III. | Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petroleum Storage | | | | | | | ٠ | | |
| - | G. Petrochemical Operations H. Total Process Emissions | 27583.77 | 7600 40 | | | and an annual section of the section | To the state of th | | and the company of the contract of the contrac | |
| IV. | Solid Waste Disposal A. Incineration 1. Area 2. Point | 2/583.7/ | 7699,40 | e de la constitución de la const | The state of the s | amakanta ka ta ba Arka kun magangga ta apa sanyak si sila pa | | A | | |
| | B. Open Burning1. Area2. Point | | | | man man'ny con ma nana mpakambana ao ao ao ao ao ao ao ao ao ao ao ao ao | and the second s | The graphical controlled controll | Seminary and the seminary at a way and | n e bar i sari u e se a de desago i a e s | |
| | C. Total Solid Waste Disposal | 2356,77 | 2356.77 | | | | | | Toward Marine Transport | |
| V. | A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage | | | | | | | • | | |
| | C. Aircraft D. Railroads E. Vessels F. Gasoline Handling | | | | | | | | | |
| | G. Total Transportation | 4245 37 | 4245.37 | <u> </u> | <u> </u> | 1 | | , , , , , , , , , , , , , , , , , , , | <u> </u> | |
| - | | | • | | | | | | | |

| POI | LUTANT: Particulate | |
|-----|-----------------------------|--|
| VI | Miscellaneous Area Sources | |
| | A. Forest Fires | |
| | B. Agricultural, Silvicultu | |

and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
VII Grand Total
A. Area
B. Point

| | REGION: West Central Florida | | | | | | | | | | |
|---|------------------------------|-----------|------------------|------------------|-----------------|-----------------|---------------------|---------------------|------------------|-----------------------------|--|
| [| Citrus | Citrus ** | Hardee | Hardee** | Hernando | Hernandő* | Hills-** | Hills-** borough | Levy | Levy ** | |
| 1 | 241.36 285.0 | | 214.1 1548.55 | 214.1 1548.55 | 208.61 247.8 | 208.61 247.8 | 1282.68 262.2 | 1282.68 262.2 | 241.94 643.0 | 241.94 643.0 | |
| | 42.0 | 10.0 | 261.0 | 65,0 | 111.0 | 27.0 | 2001.0 | _500 | | | |
| ١ | 568.36 | 536.36 | 2023.65 | 1827.65 | 111:0 567:41 | 483.41 | 3545.88 | 2044.88 | 884.94 | 884.94 | |
| | 4030.72 | 2914.49 | | 1860.70 | 776.37 | 647.07 | 20125.5 | 15671:06 5190:19 | 2020.3 932.88 | 1802.23 | |
| | 3403:63 | 2319:40 | 2056:78 | 1860:70 | | 134:27 | 6666.19 13459.30 | 5190.19 10480.87 | | 1802.23 932.88 869.35 | |

POLLUTANT: Particulate

| VI | Mis | cellaneous Area Sources. |
|-----|-----|-----------------------------|
| | A. | Forest Fires |
| | B. | Agricultural, Silvicultural |
| | | and Landclearing Burning |
| | C. | Grove Protection |
| | D. | Total Miscellaneous |
| /II | Gra | nd Total |
| | A. | Area . |
| | В. | Point |

| REGION: | West Centr | al Region | | | | | - | | 3543 |
|------------------|-------------------|---------------|------------------|--------------------|-------------|----------------------|--------------------|---------|---------------------------------------|
| Manatee | Manatee** | Pasco | Pasco ** | Pinellas | Pinellas** | Polk | Polk ** | Sumter | Sumter ** |
| . 251.3 | 251.3 | 343.1 | 343.1. | 326.1 | 326.1 | 1262.12 | 1262.12 | 241.36 | 241.36 |
| 1817.9 39.0 | 1817.9 10.0 | 408.9 34.3 | 408.9 9.0 | 27:8 | 67.9 6.0 | 5991.1 2577.0 | 5991.1 644.25 | 285.0 | 285.8 |
| 2108.2 | 2079.2 | 786.3 | 761.0 | 415.0 | | 9830.22 | 7897.47 | 568.36 | 536.36 |
| 2476.24 | 2447.24 | 1955.37 | 1289.97 | 4358.04 | 4103.54 | 24053.58 | 11110.23 | 7572.61 | 810,31 |
| 2325.74 50.50 | 2296.74 150.50 | 1825:77 | 900.47 389.50 | 1590.09 2757.95 | 1575.09 | 10451.53 13602.05 | 8498.68 2611.55 | 6795:21 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

POLLUTANT: Particulate REGION: West Central Region
TOTALS | **TOTALS | TOTALS VI Miscellaneous Area Sources ... A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection D. Total Miscellaneous 2<u>1298.32</u> 69415.72 17451.27 42656.84 /II Grand Total 26970.07 42445.65 A. Area 23127.92 19528.92 B. Point

C-82

| POI | LUTAN | T: Sulfur Oxides | 1 | REGION: We | st Central | Florida | | | ny strajety nyedrona nyenyety soor 1900. Y | en enemen en man e vers en personnes qu | | |
|-----|-------|--|--------|------------|------------|-----------|----------|----------|--|---|------|---------|
| ī. | Fuel | Combustion | Citrus | Citrus ** | Hardee | Hardee ** | Hernando | Hernand* | Hills-** borough | Hills-** borough | Levy | Levy ** |
| | A. | Residential and | • | · | | | , | | | | | |
| | | Institutional Fuel | | | | • 1 | å ; | | | | | |
| | | 1. Coal or Coke | |] | | , | | | ٠ | | | 1 |
| | | a. Area b. Point | | | | | | | | | | |
| | | 2. Distillate Oil | į | , | 1 | . 0. + | | ĺ | | | | |
| | | a. Area | 3.37 | 3.37 | 2.02 | 2.02 | 2.7 | 2.7 | 131.8 | 131.8 | 2.82 | 2.82 |
| | | b. Point | | | | | | | 1 | | | |
| | | 3. Residual Oil | | 0.5 | · \. | | : | 7.5 | 036.5 | 216.7 | y 6 | 5.64 |
| | | a. Area b. Point | 8.5 | 8.5 | 6.6 | 6.6 | 7.5 | 7.3 | 216.7 | 210.7 | 5.64 | 5.04 |
| | | 4. Natural Gas* | | , | | ; - | · | | | | | |
| | | a. Area | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 | 0.44 | 0.44 | 0.01 | 0.01 |
| | | b. Point | | | | , | | | | | | |
| | | 5. Combination a. Area | 1 | | | | | | | , | | |
| | | b. Point | | | | | 4. | | | | | · |
| | В. | Commercial | | | • | | • | | | | | |
| | | 1. Distillate Oil | | | | | | | | | | |
| | | a. Area | 0.25 | 0.25 | 0.1 | 0.1 | 0.17 | 0.17 | 12.89 | 12.89 | 0.25 | 0.25 |
| | | b. Point2. Residual Oil | | 1 | | | | · | | | | |
| | | a. Area | | | • | | · | | | · | | |
| | | b. Point | | | | ļ | * | | 927.0 | 927.0 | • | |
| | | Industrial Fuel | | 1 | • | | | | | | | |
| | | 1. Coal or Coke | 1 | | | 44 | | | | | | |
| | | a. Area b. Point | | 1 10 | gen a see | | | | | | • | |
| | | 2. Distillate Oil | | | | , | | | | | | |
| | | a. Area | | | | | • | | 144 | 144 | | |
| | | b. Point | | | | | ; | | 25 | 25 | | |
| | | 3. Residual Oil | 1 | | • | - | y To all | ** | F2 0 | 50.0 | • | |
| | | a. Area b. Point | | | | | 82.5 | 82.5 | 52.0 6652.0 | 52.0 6652.0 | | |
| | | 4. Natural Gas | | | | | 92.5 | . 64.3 | 0052.0 | 0032.0 | : | |
| • | | a. Area | 1 | | | | | | 3.0 | 3.0 | | |
| | | b. Point | | | | | | · | | and special | | |
| | | 5. Process Gas | | | | | | · | | | | |
| | | a. Area | | | | | | | | | | |
| | | b. Point | i | 1 | | | | | | | | |

^{*} Includes Commercial Uses
** Emissions Achieved Applying Chapter 17-2 FAC

P. LLUTANT: Sulfur Oxides

REGION: West Central Florida

| Ι. | Fue! | Combustion | Manatee | Manatee** | Pasco | Pasco** | Pinellas | Pinellas* | Polk | Polk ** | Sumter | Sumter** |
|----|------|----------------------------|----------|-----------|-------------------|---------|----------|-----------|---------|---------|--------|----------|
| | Α. | Residential and | • | | | | , | | | | | |
| | | Institutional Fuel | | | | | | 1 . 1 | | | | 1 |
| | | 1. Coal or Coke | | | | 1 | * | 1 | :* - | | | |
| | | a. Area | | - 1 | | ľ | | 1 | | | | 1 |
| | | b. Point | ! | 1 | | | | | | | | |
| | | 2. Distillate Oil. | | 15 00 | | 11 77 | | 700 0 | - | | | 1 |
| | | a. Area | 15.29 | 15.29 | 11.33 | 11.33 | 109.0 | 109.0 | 47.13 | 47.14 | 2.97 | 2.97 |
| | | b. Point 3. Residual Oil | | | | | | | | * | | 1. |
| | | a. Area | 40.5 | 40 7 | | | 200 | 0700 | | | 1 | 1 |
| | | b. Point | 42.5 | 42.5 | 33.6 | 33.6 | 230.8 | 230.8 | 300.4 | 100.4 | 6.56 | 6.56 |
| | | 4. Natural Gas* | | | | | | 1. | • | | | |
| | | a. Area | 0.09 | 0.09 | 0.07 | 0.07 | 0.47 | 0.47 | | 0.20 | | 0.01 |
| | | b. Point | 0.03 | 0.09 | 9.07 | 0.07 | 0.47 | 0.47 | 0.20 | 0.20 | 0.01 | 0.01 |
| | | 5. Combination | 1 | | | | İ | 1 | | | , | |
| | | a. Area | | | | 1 | | | | | ļ · | |
| | | b. Point | | | | | 1 | 1 | | | f. | |
| | В. | Commercial | | | • | 1 | ľ | 1 | | | | |
| | • | 1. Distillate Oil | | | | | | 1 | 4 1 | | | |
| | | a. Area | 0.99 | 0.99 | 0.68 | 0.68 | 9.19 | 9.19 | 3.96 | 3.96 | 0.24 | 0.24 |
| | | b. Point | | | | 1 . | | | | } | | |
| | | 2. Residual Oil | 1 | | | | | - | | | | |
| ٠. | | a. Area | | | | | | | | | | |
| | _ | b. Point | 1 | | _ | | | | | | | |
| | C. | Industrial Fuel | 150 | | , , | | · | | | | ĺ | |
| | | 1. Coal or Coke a. Area | | 1 | A ₁ at | | | 1 | • | | | 1 |
| | | b. Point | | 1 1 | | | | 1 | | | | |
| | | 2. Distillate Oil | | | | | | | | | Ì | |
| | | a. Area | | | | | |] .] | | 1 | | |
| | | b. Point | | | | | | 1 | | | | |
| | ٠. | 3. Residual Oil | | | _ | | | ' | | | | |
| | | a. Area | 22.0 | 22.0 | | | 21.3 | 21.3 | 20.0 | 20.0 | • | |
| | | b. Point | 81.3 | 81.3 | 6160.5 | 6160.5 | 616.0 | 616.0 | 47.0 | 47.0. | | |
| | | 4. Natural Gas | | | | | | | | | | |
| | | a. Area | | | | 1. | 1 | | | 1 | | 1 |
| | | b. Point | | 1 | | | 1 | 1 | | | | |
| | | 5. Process Gas | | | | • | 1 | 1 | | | | |
| ٠. | | a. Area | į. | | | | | | | | | |
| | | b. Point | 1 | i | | | 1 | } | | 1 | | |

^{*} Includes Commercial Uses

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|----|
| 1 |
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| U |
| |

| 101 | LUTF | | Citrus | West Cent | Hardee | Hardee** | Hernando | Harmando. | Hillsof." | Bildugh* | Lewy | Levy ** |
|-------------|----------|---|---------------|-----------|--|-------------|-----------------|--|-------------|------------------|-------|---------------|
| | | 6. Wood or Bark | | ULLIUS | 1144.000 | Jiai uco | AAN-L1(EM CANO) | ne manuo. | West onesie | P 0,1 00 g | | |
| | | a. Area | | | | | | | | | | |
| | | b. Point7. Combination | | | ** | \$. | | | | | | |
| | | a. Area | | | e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de | | . 57 | * | | | | |
| | | b. Point | | | | | | | | | | |
| | D. | Total Fuel | 12.14 | 12.14. | 8.73 | 8.73 | 92.89 | 92.89 | 8164.83 | 8164.83 | 8.72 | 8.72 |
| τī | Pow | Combustion er Plants | | | | | - | | | | 1 | |
| *** | A. | Coal | | >- | | | ļ | | 264,778.3 | 68591 2 | | |
| | В. | Distillate Oil | | · | 1.7 | 1.7 | | | 204,770.5 | 00001.5 | , | |
| | C. | Residual Oil | | | | _ | | | 12,714.7 | 5545.7 | | |
| | D. | Natural Gas Combination | 57,122.5 | 27247 2 | | | | | | | 458.2 | 190.3 |
| | E. F. | Total Power Plants | 57,122.5 | | 3 45 | 1.7 | 0.0 | | 277,493.0 | 71236 Q | 1 | |
| III. | | cess Emissions | 11446.3 | 4/64/.4 | | <u> </u> | | Control of the Contro | 277,493.0 | 14230.3 | 458.2 | 190.8 |
| | Α. | Chemical | | | | | 1 | | 22,427.0 | 10385.0 | | |
| | B. | Food and Agriculture | | | | | 144.75 | 144.75 | 10.0 | 10.0 | | |
| | C. D. | Metallurgical , | | | | | 829017 | 8290.7 | | | | |
| • | Ē. | Wood | | | | | 8290.7 | 0230.7 | | | | |
| | F. | Petroleum Storage | | | | | į | | | | | |
| | G. | Petrochemical Operations | | | egy – page are re-material exceptions | | | | | | | |
| ~~ 1 | H. | Total Process Emissions id Waste Disposal | | | The control of the last of the | | 8435.45 | 8435.45 | 22.437.0 | 10395.0 | | |
| IV. | A. | Incineration | | • | · | | | | | | | 1 |
| | *** | I. Area | 0.3 | 0.3 | 0.15 | 0.15 | 0.3 | 0.3 | 13.3 | 13.3 | | |
| | | 2. Point | | | | | | | 23.5 | | | |
| | В. | Open Burning | | | | | | | 24.0 | 24.0 | | |
| | | 1. Area 2. Point | | | | | 1 | | 1500.0 | 1500.0 | | |
| | c | Total Solid Waste Disposal | 0.3 | 0.3 | 0,15 | 0.15 | 0.3 | 0.3 | 1537.3 | 1537.3 | | 1 |
| V. | | nsportation | | | | | - | | | ******* | | |
| | Α. | Motor Vehicles | | - | | | | | | | | 1.00 |
| | | 1. Gasoline 2. Diesel | 21.9 13.32 | 21.9 | 12.7 | 12.7 | 15.9 | 15.9 9.67 | 559:75 | 559.75 341.26 | 18.6 | 18.6 11.28 |
| | В. | Off-Highway Usage | 13.32 | 13.32 | 7.72 | 7.72 | 9.67 | 9.07 | 341.26 | 341.40 | 11.28 | 11.20 |
| | c. | Aircraft | | | | | | | 323.0 | 323.0 | | |
| | D. | Railroads | | ĺ | | | 3.08 | 3.08 | 281.3 | 281.3 | 6.01 | 0.01 |
| | E. | Vessels | 1 | ĺ | | | | • ‡ | 2037.0 | 2037.0 | 1 | |
| | F. G. | Gasoline Handling Total Transportation | 34.22 | 34.22 | 20.42 | 20.42 | 28.65 | 28.65 | 2543 37 | 3542.31 | 29.89 | 29.89 |
| | ٠. | • | | | · · · · · · · · · · · · · · · · · · · | | | | 3146.31 | | | |
| <i>></i> | | | | | | · . • | | | | | | * |
| | | • : | | | | | | | | | | |
| | | | • | | | | | | | | | |
| | • | | | ٠, | | | | | | | | |

| | Manatee | West Ce Manatee** | Pasco | Pasco** | Pinellas | Pinellas* | Polk | Polk ** | Sumter | Sumte |
|--|-----------|----------------------|--|---------------------------------------|------------------------------|-----------|------------|-------------------|---|--------------|
| 6. Wood or Bark | | | The state of the s | | Andreas of the second second | | | | | |
| a. Area | · | | | · · | | | | | | |
| b. Point | | · | | | | | | | 1 | |
| 7. Combination | | | | | | | | | | |
| a. Area | | | • | | | | 267.8 | 267.8 | | |
| b. Point | | 360 38 | COAC 30 | 6206 10 | 005 75 | 006 76 | | 🌡 ii ii Saraama 🚎 | 1 | † |
| D. Total Fuel | 162.17 | 162.17 | 6206.18 | 6206.18 | 986.76 | 986,76 | 486.49 | 486,49 | 9.78 | 9. |
| Combustion | | | | | | | | | | |
| I. Power Plants | | | • | | , - | | | | | |
| A. Coal B. Distillate Oil | | 1 | | | | | | ' + λ | , | 1 |
| | | | • | | 805.0 | 785.0 | 2880.0 | 1954.0 | | |
| C. Residual Oil D. Natural Gas | | | | | 603.0 | 700.0 | 2000.0 | 1334.0 | | |
| The state of the s | | | | | 29.022.1 | 21176.0 | 2565.8 | 1735.5 | | 1 |
| The state of the s | 0.0 | 0.0 | 0.0 | 0.0 | 29,827.1 | 21961.0 | 5445.8 | 3689.5 | 0.0 | |
| F. Total Power Plants L. Process Emissions | <u> </u> | 0.0 | 0.0 | V. V | 27,021.1 | 21301.0 | 3443.0 | 3003.3 | V . V | |
| A. Chemical | 7655.6 | 2555.0 | | | 264.5 | 264.5 | 65666.95 | 18460.3 | | 1 |
| B. Food and Agriculture | 7033.0 | 2000.0 | 1197.0 | 1197.0 | 204.5 | 204.3 | 1297.8 | 1297.8 | | |
| | | - | 113/.0 | 1157.0 | | · . | 1431.0 | 1231.0 | 1 | 1 |
| | 18.6 | 18.6 | 83.2 | 83.2 | 93.0 | 93.0 | 361.5 | 361.5 | 811.5 | 811.5 |
| | 19.0 | 10.0 | 83.2 | 63.4 | 93.0 | 93.0 | 207:3 | 301.5 | OTTO | 011. |
| E. Wood F. Petroleum Storage | | | | | | | | | | |
| G. Petrochemical Operations | | | *1 | | | | | | | l |
| H. Total Process Emissions | 7674.2 | 2573.6 | 1280.2 | 1280.2 | 357.5 | 357.5 | 67326 . 25 | 20119.60 | 811.5 | 811.5 |
| Solid Waste Disposal | 75/4.2 | 23/3.0 | | 1280.4 | 397.9 | 337.3 | 0/320.23 | 20119.00 | 011.3 | 011. |
| A. Incineration | ļ | . • | | | | | | | | |
| 1. Area | 2.6 | 2.6 | 0.9 | 0.9 | 11.6 | 11.6 | 5.75 | 5.75 | | |
| 2. Point | 4.0 | 2.0 | 0.9 | 0.5 | 11.0 | 11.0 | 4.54 | 3.73 | | |
| B. Open Burning | | | | | | | | | | 1 |
| 1. Area | | | | | | | | | 1. | 1 |
| 2. Point | | | | į · | | | | | | |
| C. Total Solid Waste Disposal | 2.6 | 2.6 | 0.9 | 0.9 | 11.6 | 11.6 | 5.75 | 5.75 | - | † |
| Transportation | | | | | 11.0 | 11.0 | 3./3 | 3./3 | | <u> </u> |
| A. Motor Vehicles | | | + | 1. | | | | • | | |
| 1. Gasoline | 72.5 | 72.5 | 48.6 | 48.6 | 377.1 | 377.1 | 218-1 | 218.1 | 23.6 | 23. |
| 2. Diesel | 44.16 | 44.16 | 29.6 | 29.6 | 229.4 | 229.4 | 133.0 | 133.0 | 14.34 | 14. |
| B. Off-Highway Usage | | | | | | 249.4 | | 1 777. | | |
| C. Aircraft | | | | | | | | | | |
| D. Railroads | 2.12 | 2.12 | | | 42.9 | 42.9 | 184.0 | 184.0 | 213.1 | 213. |
| E. Vessels | , ~ ~ ~ ~ | | | 1 11 | 1 | | | | 1 | |
| F. Gasoline Handling | | | * * | | | | İ | | | |
| G. Total Transportation | 118.78 | 118.78 | 78.2 | 78.2 | 649.3 | 649.3 | 535.1 | 535.1 | 251.04 | 251 |
| G. Total Transportation | 110./0 | 770-10 | 79.4 | 70.4 | 047.3 | | 333.1_ | 1 242.4 | 431.04 | |
| | | • | | | | | | | | |
| | | | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| . | | 7 | * | | | | | | * . * * * * * * * * * * * * * * * * * * | • |
| | | | | | | | | | | |

| | LLUTANT: Sulfur Oxides | moma- c | mom to a | 1 | 1 | 1 | 1 | 1 | | 1 | 1 |
|------|--|-----------|-----------|--|--------------|--|--|--|--|------------------------------|---|
| | 6. Wood or Bark | TOTALS | TOTALS ** | | | <u> </u> | | | dary species of the second second second second | | ļ |
| | a. Area | | | | | | | | | 1 | ł. |
| | b. Point | · | | | • | | | | ' | . [| |
| | 7. Combination | | | | | | | | | 1 | ĺ |
| • | a. Area | | | ٠ | | | | , | | | ĺ |
| | b. Point D. Total Fuel | 16170 (60 | 16138.69 | | | | | | | | |
| | Combustion | 10138.09 | 10138.03 | | | <u> </u> | | | | | |
| II. | . Power Plants | | | | | | | | | | ! |
| | A. Coal | | | | | | | | - | | 1 |
| | B. Distillate Oil | | 200 | | | | | | Jr 19 | | |
| | C. Residual Oil | | | | | | ٠. | | * . | 1 1 | |
| | D. Natural Gas | | | | | | | | | | |
| - | E. Combination | 770740 70 | 100000 | | | THE RESERVE AND PROPERTY OF PERSONS ASSESSMENT ASSESSMENT OF PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSME | | | - | ļi- | - |
| क्रम | F. Total Power Plants Process Emissions | 3/0348.30 | 127327.10 | | - | | | | . Anna ter i ministration i printe i printe i printe i printe i printe i printe i printe i printe i printe i p | | |
| 111. | A. Chemical | | | | | | - | | | | |
| | B. Food and Agriculture | | | | | | | | | 1 | *: |
| | C. Metallurgical | | | | | | - | , | | | |
| | D. Mineral | ٠ | | | | | | | | 1 | |
| | E. Wood | | | | | * | | | | | |
| | F. Petroleum Storage | | | | 1 | | | بد | | | |
| | G. Petrochemical Operations | | | ·· | | | | - Mark to the single of the same of the sa | . | <u> </u> | *************************************** |
| | H. Total Process Emissions | 108322.10 | 43972.85 | | | | | er englishter ett statel op begregger gegenne et englishe | | | |
| IA. | Solid Waste Disposal | | | | | • | | | | | |
| | A. Incineration 1. Area | | | | | | | | | | |
| | 2. Point | | | • | | | | ÷ | i i | | |
| | B. Open Burning | | | | | | | | | i | 1 1 2 |
| | 1. Area | | | | | | | | , | | |
| | 2. Point | .] | • | | 1 | | | | | | *** |
| | C. Total Solid Waste Disposal | 1558.90 | 1558.90 | A STATE OF THE PARTY OF THE PAR | | | 13/10/11/11/11/11 | Se sold and a second | | | endomen at |
| v. | Transportation | | | | | Antimate with the first in the same in a 1 strong and which | er-manifection (Control of Contro | Control of the Contro | • | | Market Anna |
| | A. Motor Vehicles | | | | | | | | | | 100 |
| | l. Gasoline | | | - a" | 1 1 2 | | | • | | | |
| * - | 2. Diesel | | | | 1 | | • | | | | 1 |
| | B. Off-Highway Usage | | | | | | | | | 1 | |
| | C. Aircraft D. Railroads | | | | | | | • | | | |
| | D. Railroads E. Vessels | | | | | | | | | 9 | |
| | | | | | | | | | | | |
| | F. Gasoline Handling G. Total Transportation | 5288.01 | 5288.01 | | | | and the second section of the second | | | i er e e l | **** |
| | 4. tokai irmsbortaeron | 3488.01 | 3400.01 | · | | to require reference and record and and and and a | | - | | | |
| | | ** | | • | | | | | | | |
| ^ | • | | | £ | | | | | | | |
| | • | | * | | | | | | | | |
| | | | | | | | | | | | 1 4 |
| | | | | | | | | | | and the second of the second | |

POLLUTANT: Sulfur Oxides

VI Miscellaneous Area Sources ...

A. Forest Fires

B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection
D. Total Miscellaneous

/II Grand Total

A. Area

B. Point

Citrus ** Hardee Hardee Hernando Hernando borough borough Levy 126 972 20 126 972

126 57,189.16

West Central Florida

REGION:

POLLUTANT:

Sulfur Oxides

VI Miscellaneous Area Sources... A. Forest Fires Agricultural, Silvicultural and Landclearing Burning
C. Grove Protection

D. Total Miscellaneous Grand Total

A. Area Point

West Central Florida Manatee** Pasco Manatee Pasco** Pinellas Pinellas Po1k Polk** Sumter 189.0 189.0 166 1251 166 166 7731.4 189.0 189.0 166 10 10 1251 20 3046.15 8146.75 7731.48 23976.16 75051.39 26087.44 1092,32 1092.32 391.25 290.78 7440.70 290.78 7440.70 391.25 1041.66 30800.60 7755.50

| e 2011 | GUTANT: Sulfur Oxides | REGION: N | lest Central | _Florida_ | | | | | |
|-----------|--|-----------|----------------------|-----------|----|--|----------|--|--|
| *** | Managara and a second | TOTAL | TOTALS | <u> </u> | | | | | |
| AT. | Miscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning | | | | \$ | | | Committee of the Commit | |
| | C. Grove Protection | | ' | | | | | | |
| | D. Total Miscellaneous | 2808.00 | | | · | | | | |
| 'II | Grand Total | 504464.90 | 197093.55 | , | | | | | |
| ī. | A. Area B. Point | | 9434.40 187659.15 | | | | <u> </u> | | |

| P O | LLUTA | NT: | Carbon Monoxide | I | REGION: We | st Central | Florida | | | | i i i i i i i i i i i i i i i i i i i | | |
|------------|---------|------|---------------------|----------|------------|------------|-----------|---------------------------------------|------------|---------------------|---------------------------------------|------|---------|
| ī. | Fue | 1 Co | ombustion | Citrus | Citrus** | Hardee | Hardee ** | Hernando | Hernando** | Hills-** borough | Hills-** borough | Levy | Levy ** |
| | | | idential and | • | | | | | | | | | |
| | , | | titutional Fuel | | | | | £ | | | | | |
| | | 1. | Coal or Coke | 1 | | | | | | | İ | | |
| | | | a. Area | | | | | | | | | | |
| | | • | b. Point | | A. A. | | | | | · | 走 | | |
| | | 2. | Distillate Oil | 3.34 | 3.34 | 1.4 | 1.4 | 1.86 | 1.86 | 91.6 | 91.6 | 1.97 | 1.97 |
| | • • • • | . • | a. Area b. Point | 3.34 | 3.34 | +•* | 1.7 | 1.00 | 1.00 | 31.0 | 31.0 | 2.31 | 2.0. |
| | | 3 / | Residual Oil | | | | | | - | t. | | | |
| | | 3.7 | a. Area | 0.15 | 0.15 | 0.11 | 0.11 | 0.13 | 0.13 | 3.76 | 3.76 | 0.1 | 0.1 |
| | | | b. Point | | | | | | | | | | |
| | | 4. | Natural Gas* | l | · | _ | | | | | | | |
| *. | | | a. Area | 0.57 | 0.57 | 0.44 | 0.44 | 0.51 | 0.51 | 14.68 | 14.68 | 0.36 | 0.36 |
| 12 | | | b. Point | | | 1 | | | | | | | |
| 65. | | 5. | Combination | N | | | * . | | | | | , | |
| | | | a. Area | | - | · | | | | | | | |
| | • | | b. Point | <u> </u> | | | | | | | | | |
| | В. | Con | mercial | | | | | | | | | | |
| | | 1. | Distillate Oil | | | | • | | | 0.36 | 0.36 | 0.01 | 0.01 |
| | | | a. Area | 0.01 | 0.01 | | | · | | 0.30 | 0.30 | 0.01 | . 0.01 |
| | | | b. Point | | | | • | | | | | | |
| | | 2. | Residual Oil | | | | | | | | | | |
| _ | | 9 | a. Area b. Point | | 1 | | | | | | | | |
| C-91 | C. | Twa | ustrial Fuel | | | | | | | | | • | |
| Ġ | ٠. | | Coal or Coke | | · | | | | | | | | |
| | , | + • | a. Area | | | | | | | 1 | 1 | | • |
| • | | | b. Point | | | | | | | | | • | . , |
| | | 2. | | ŀ | | | | | | | | | |
| | | 7. | a. Area | | | | • | | | | | | • |
| | 1000 | | b. Point | | | | | | | | | | |
| | - Marie | 3. | Residual Oil | | | | | | | | | | |
| | | | a. Area | | 1 | | • | | | 6 _ | 6 | | |
| | | | b. Point | | | | | | 1 | | - | | |
| | | 4. | | | | | | | | 2 | 2 | í | |
| | | | a. Area | | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 2 | 4 | | |
| | | ċ | b. Point | | | | | | | | | | |
| | | 5. | Process Gas | | | , | | | | | | | |
| | 1.2. | | ca. Area | | | | | | 47.3× ga. | No. | 1 | | |
| | | | b. Point | | i | ł :i | | ! | i | | L | | |

^{*} Includes Commercial Uses

POLLUTANT: Carbon Monoxide REGION: West Central Florida

| Ι. | Fue: | 1 Combustion | Manatee | Manatee** | Pasco | Pasco ** | Pinellas | Pinellas** | Polk | Polk ** | Sumter | Sumter ** |
|---------|------|----------------------------|------------------------------|-----------|--------|----------|----------|------------|--|----------|--------|---------------------------------------|
| | A. | Residential and | | | | | | | | | | |
| | | Institutional Fuel | • | | | | , · | | | Į. | | |
| | | 1. Coal or Coke | | | | | | | +. · | | | * |
| • | | a. Area | | | • | | | | | | | |
| | | b. Point | | ľ | | | | | | | · . | |
| | | 2. Distillate Oil | | | | | | 1 | .~ | | | |
| | | a. Area | 10.63 | 19.63 | 7.85 | 7.85 | 75.7 | 75.7 | 32.76 | 32.76 | 2.06 | 2.06 |
| | • • | b. Point | | | , | | | | | | | |
| | | 3. Residual Oil | | | | | 1 | | | | | |
| | | /a. Area | 0.74 | 0.74 | 0.58 | 0.58 | 4.0 | 4.0 | 1.74 | 1.74 | 0.11 | 0.11 |
| | | b. Point | 1. | | - | | | 1 | | • | | |
| | | 4. Natural Gas* a. Area | 0.01 | | | | | ا م م م | | | 1 | |
| 1.1 | | b. Point | 2.91 | 2.91 | 2.27 | 2.27 | 15.64 | 15.64 | 6.80 | 6.80 | 0.44 | 0.44 |
| | | 5. Combination | | | | • | | | | | | |
| ٠, | | a. Area | | | | | | | | | | |
| | | b. Point | | | | | | | | | | |
| | В. | Commercial | |) | - | |) | | | | | |
| | | 1. Distillate Oil | | | | | | | • | | | |
| | | a. Area | .0.03 | 0.03 | 0.02 | 0.02 | 0.26 | 0.26 | 0.11 | 0.11 | 0.01 | 0.01 |
| | | b. Point | | | * **** | 0.02 | | 0.20 | · · · · · · · · · · · · · · · · · · · | | | * * * * * * * * * * * * * * * * * * * |
| | | 2. Residual Oil | | | • | i · | 1 | | | | | |
| | | a. Area | | | | | 1 | | | | | |
| Ü | | b. Point |] . | | | | | | | | | |
| Į, | C. | Industrial Fuel | | | | | | | | | | |
| Ñ | | 1. Coal or Coke | | | * ** | | | | | | | |
| \$2.007 | | a. Area | | | | | | | • | | | |
| • | | b. Point | | | | | | | 1. | | | |
| | | 2. Distillate Oil | | | | 1 | | | | | | |
| | | a. Area | | | 1.9 | 1.9 | 0.38 | 0.38 | 0.04 | 0,04 | | |
| • | , | b. Point | | | - | | | | | | | |
| | | 3. Residual Oil | | | | | | | | <u> </u> | | |
| | | a. Area | | | | | | | | | | |
| | | b. Point 4. Natural Gas | | | | | | | | | | |
| ٠. | | a. Area | | | | 1 | | | | | | |
| | | b. Point | | | • | | 1 | | | | | |
| | | 5. Process Gas | | | | | | | | | | |
| | | * a. Area | 1 | | | | 1. | | | | | |
| | | • | | | | | | | 2. 1 | | | |
| | | b. Point | واستناست والمساورة والمستوان | 1 | | | | <u> </u> | La company of the control of the con | 4. | A | |

^{*} Includes Commercial Uses

| | سارا اند | LUTA | NT: Carbon Monoxide | REGION | | tral Flor | | , adding orders for a first of the good, payments can | and a second second second second second second second second second second second second second second second | | ا. يعموني المستراد المستراد المستراد المستراد المستراد المستراد المستراد المستراد المستراد المستراد المستراد المس | - | |
|------|----------|----------|---|---------|----------|-----------|--------------|---|--|-------------|--|---------|------|
| | | | 6 miles and menta | Citrus | Citrus** | Hardee | Hardee ** | Hernando. | Hernando* | #848agh* | Bolldagh. | Levy | Levy |
| | | | 6. Wood or Barka. Area | | | | , | • | | | | | 1.4 |
| | | • | b. Point | | | | | | | | | 13.05 | 13.0 |
| | | | 7. Combination | | | | * | | 1 | | | | |
| | | | a. Area | | | | • | | | | | | |
| | | | b. Point | | | | | | | | | | |
| | | Ď. | Total Fuel | 4.07 | 4.07 | 1.55 | 1.55 | 2.5 | 2.5 | 119.4 | 119.4 | 15.49 | 15. |
| c. | | | Combustion | | | | | | | | | | |
| ., | II. | | er Plants | | | | | - | 4 | 2101.0 | 2101.0 | | |
| | | | Coal Coal | 1 | 1 | | l . | | 1. | | | . , | |
| | | В. | | | 1: | | | | | | | | |
| | | C. | Residual Oil | | | | | | Į | 2.0 | 2.0 | - | |
| | | D. | Natural Gas | | 583.8 | | | | | | ţ | 1. | |
| | | E. | | 583.8 | 583.8 | - | | | | | 1 | 0.4 | 0, |
| • | 5_ ±_ | F. | | 583.8 | 363.6 | | | | | 2103.0 | 2103.0 | 0.4 | 0 |
| | III. | | cess Emissions | | | | | | } | | | | |
| 1. 1 | | Α. | | | | | | · | | 1 | | | |
| | | В. | | 1. | | | | | | 1.0 | 1.0 | | . 1 |
| | | Č. | Metallurgical | | 1 | | ľ | | | | | į | |
| | | D. | Mineral Wood | | | | | 1.2 | 1.2 | | | | |
| | | E. | Petroleum Storage | | | | | | 1 | | 1 | | |
| | | F. G. | | | | · | | | | | | | |
| _ | 4 : | ч. Н. | | | | | | 1.2 | 1.2 | 1.0 | 1.0 | | + |
| ď | IV. | | id Waste Disposal | | | - | | <u> </u> | 1.5 | 1 | 4 | | |
| 0 | 270 | A DOL | Incineration | | • | | | | 1. | | | | į |
| w | | AT-1 | 1. Area | 2.7 | 2.7 | 1.33 | 1.33 | 2.5 | 2.5 | 3503 | 1507 | 1 | 1 |
| | | " | 2. Point | 1 | 2.7 | 4.33 | 1.33 | 4.5 | 4 | 1507 134 | 1507 134 | - | - |
| | | В. | Open Burning | | 1 | | - | | | 134 | 127 | | |
| | | | 1. Area | 1 | | | | | | 2036 | 20 36 | | 1 |
| | | | 2. Point | | · 12 | , | | , | | 2030 | 20 30 | | |
| ·. | 1 | C. | - 40 A | 2.7 | 2.7 | 1.33 | 1.33 | 2.5 | 2.5 | 3677 | 3677 | 1 | T 1 |
| 11 | v. | | nsportation | | | | | | | - | | | 1 |
| | - ' ' | A. | | | • | * | | | 1 | | | | 1 |
| | | | 1. Gasoline | 9043.5 | 9043.5 | 5250.3 | 5250.3 | 6558.3 | 6558.3 | 66356.6 | \$66356.6 | 7671.7 | 7671 |
| | | | 2. Diesel | 92.5 | 92.5 | 53.88 | 53.88 | 67.49 | 67.49 | 2381.24 | 366356.6 2381.24 | 78.74 | 7671 |
| | 5.4 | B. | | | | | | | | | | | |
| | , | C. | Aircraft | | | | | | | 2902 | 2902 | | |
| | | D. | Railroads | | 1 | • | | 3.31 | 3.31 | 302.9 | 302.9 | 0.01 | 0 |
| | | E. | Vessels | | | | | | | 13.0 | 13.0 | | j |
| | | F. | Gasoline Handling | | | | | | 1 | | | | |
| | | G. | Total Transportation | 9136.0 | 9136.0 | 5304.18 | 5304.18 | 6629.10 | 6629.10 | 371955.74 | 371955.74 | 7748.45 | 7748 |
| | 1, 14 1 | | | | | | | | | | | | |
| | 10 to 10 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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| | | | tanja tanja | | | | | | | | |
|--|--|--|--|--|---|--|--|---|--------------------|--|--|
| | o tomo Amerika | en en en en en en en en en en en en en e | Mank Carl | | 3 | \$ \$2 | | | | | Y V |
| POLLUT | ANT: Carbon Monoxide | | West Cent | | | | 7= | | | | 7 |
| *** *** | 6. Wood or Bark | Manate | Manatee** | Pasco_ | Pasco** | Pinellas . | Pinellas* | Polk Polk | Polk** | Sumter | Suate ^{‡‡} |
| 4 * * * * * * * * * * * * * * * * * * * | a. Area | | | | | | | . ` | | : 3 | |
| | b. Point | | | | 1 | | | | | | |
| • | 7. Combination | | | | | | | | | | |
| | a. Area b. Point | | | | 1. 1. 1. 1. L. 1. 1. L. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | | | | | | |
| D. | | 14.31 | 14.31 | 12,62 | 12.62 | 95.98 | 95.98 | 41.45 | 41.45 | 2.61 | 2.61 |
| ** | Combustion | | | Angel and the company of the first own | | 1 | | | | | |
| The state of the s | wer Plants Coal | | | | | - | | | | | |
| A. B. | | - | | | 14.1 | | | | | , | * 1 |
| č. | | TO ANGELOW | | | | 0.19 | 0.19 | 0.47 | 0.47 | | 4.5 |
| D. | | | | | orabays . | 5.8 | 5.8 | | 1.16 | - | |
| E, | the second of the second secon | | | and the second section of the second second | | 5:99 | 5. 99 | 1.16 1.63 | 1.63 | | |
| F. | ocess Emissions | | of the second state and the second se | inaminings, photographic methodoscolomoras m | | Anticontation of the second se | 3.57 | Anna Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Car April 19 19 19 19 19 19 19 19 19 19 19 19 19 | 1.95 | and the second s | and the same of th |
| Α. | | | | | | 0.17 | 0.17 | 2.49 | 2.49 | | |
| Ъ. | | 0.14 | 0.14 | 0.58 | 0.58 | W | | 1.12 | 1.12 | | |
| ç. | | | - Control of the Cont | - | | | | | | | |
| D. E. | | AD- | | | - | 0.3 | 0.3 | | L. Carlotte | 0.4 | 0.4 |
| F. | | | | | | | | | | | 7.5 |
| G. | Petro hemical Operations | Braggiorgia (destanda qual maria de la contractor de la c | | | | | | emergiate constant and particular constant and assume the section of the section | | operation of the second second second second second second second second second second second second second se | Security of the second |
| н. | | 0_i4_ | 0.16 | 0.58 | 0.58 | 0.47 | 0.47 | 3.61 | 3.61 | 0.4 | 0.4 |
| IV. So | lid Waste Disposal Incineration | - | | | | | | | | | |
| | I. Area | 21.7 | 21.7 | 7.73 | 7.73 | 96.8 | 96.8 | 47.9 | 47.9 | | |
| | 2. Point | | | | | | | | | * * | |
| В. | | | | | | | | | | | |
| | 1. Area 2. Point | ATT ATT ATT ATT ATT ATT ATT ATT ATT ATT | | | | | F C C C C C C C C C C C C C C C C C C C | | | | |
| °₩ c. | | 21.7 | 21.7 | 7.73 | 7.73 | 36.8 | 96.8 | 47.9 | 47,99 | ma arager and seek an array of the particular of the seek and the seek and the seek and the seek and the seek a | |
| V. Tr | ansportation | CONTRACTOR OF THE STATE OF THE | A new restaura and the state of the second | - The Albert State - Call Mark Andrews - Andrews - Space - Call Andrews - Call An | or to programme to the contract of the contra | Control of the Contro | Contraction of the Contraction o | and the second second second | | | naceurius en en en en en en en en en en en en en |
| A. | | | - | | | | | | | | |
| | 1. Gasoline 2. Diesel | 29952.0 308.16 | 29952.0 308.16 | 20070.6 206.63 | 20070.6 | 240821.8 1604.1 | 246521.8 1604.17 | | 142777.5 928.04 | 9732.4 | |
| В. | and the second s | 340.10 | 300.10 | 200.03 | 200.03 | LVUTEL | TONASTY | 740.04 | 260.03 | 100.06 | TAO. (2) |
| c. | Aircraft | | and the same of th | 9 . | | | İ | | | | |
| | Railroads | 2.28 | 2.28 | | | 45.2 | 46.2 | 198.1 | 198.1 | 229.5 | 229.5 |
| E. | | The second secon | | | .6424 | Para gain | | | | | |
| F. G. | | 30252.44 | 30252.44 | 20277.23 | 20277.23 | 248472 1 | 248472.17 | 143903 64 | 143903.64 | 10061.96 | 10061 @ |
| U, | seems regimbles consent | The second second second | TAKRAREGA | | * | | An experience of the feet of t | ~~~~~ | | | THE COLUMN |

| Ţ1 | JLI | LUTA' | NT: Carbon Monoxide | REGION | : West Cent | ral Region | Application of the second second second second second second second second second second second second second | · | apparation to a | T | refer to 1 1 1 1 2 consisting or residency and residency according | tradicionamica una qui sunt intercento ritigio. | and any contradiction and the special property is a | د. سنس |
|---------|----------------|--------------|---|-----------------|--|--|--|--|--|---------------------|--|--|---|---------------------|
| | | | 6. Wood or Bark | TOTALS | - | | 1 | | | | | | 1 | 1 |
| | | | a. Area | 1 | 1 | 1 | | | ļ | 1 | 1 | 1 | | |
| | | | b. Point | 1 | 1 ' | | 1 / | | J | 1. | 1 | ' | 1. | |
| | | | 7. Combination | 1 | 1 | | 1 2 | 1 | 1 | 1 , | 1 | 1 | | 4525 |
| | | | a. Area | 1 | 1 | 1 - ' | | | 1 | 1 | 1 | 1. | | Page" |
| | | | b. Point | ļ | 4 | 1 | 4 | |] | 1 | (| . (| 4 | 4 |
| | | D. | Total Fuel . | 309.98 | | | or contract the second | | Contract of the Contract of th | 1 | | , | 1 7 | d in |
| | - 500 | ~ | Combustion | 1 | The state of the s | 1 | I amount of | A STATE OF THE STA | 1 | 1 | *************************************** | | | |
| 7.1 | | | er Plants Coal | 1 | 1 | | 1 | | _ • | 11 | E ' | 1 | 1 5 607 | 1:37 |
| | | | Distillate Oil | + | 1 | 1 | 1 | | | 1 | i | 1 ' | 1 | |
| | | р. С. | Residual Oil | 1. | 1. | | | | 1 | 1 | f | 1 , | 1 | 1 |
| | | | Natural Gas | 1 | 1 | | 1 | 1. | j | 1 | . | 1 ! | 1 4 | |
| | 2 | E. | Combination | 1 | - | | | | | 1 | 1 | 1 | 1 | 1 |
| | . 1 | F. | Total Power Plants | 2694.82 | 1 | | | T | | 1 | | / | | 1 |
| III | I. | Pror | cess Emissions | 1 | and the second s | | 1 | And desired and and | | 1 | Confedence and a transfer of the second of t | A major and the second | - | - |
| | . 1/ | A., | Chemical | 1 | 1 | ्री किल्कुने के ¹⁴ | 1. | | 1 | 1 | 1 | | 1 11.3 | 1 75 |
| | . / | 8 | Food and Agriculture | 1. | 1 | 1 | 1 | | The section of the se | | 1 | 1 | 1 1 1 | |
| | | C. | Metallurgical , Mineral | 1 - 1 | 1 | 1 | 1 . | | 1 | <u>i</u> . <u> </u> | <i>i</i> | 1 | 1 - 1 | |
| | | 12.4 12.1 | Mood | 1 | 1 | 1 | 1. | | | 1 | 4 | 1 | 1 | |
| | 3 | 27. | Petroleum Storace | 1 | 1 , , | 1 | 1 | 1 | - | 1 | 4 | 4 | f • • • • • • | |
| | Ċ | G. | Petrochemical Operations | - | 1 | 1 | 1 | 1 | | 1 | t | , | 1 | 1 1 augumen |
| | 1 | H. | Total Process Emissions | 7.40 | 1 | | | | | | , | | | 1 |
| IV. | ٠. ٤ | Soli | id Waste Disposal | 1 | 1 | The second secon | | - | Management | 1 | | Commence of the Commence of th | | And a second second |
| | $\omega_i = I$ | | Incineration | 1 | 1 | 1 % | 1 | | 1 | . 1 | 1 | 1 | 1 | 1 |
| | | | 1. Area 2. Point | 4 | 1 | 1. | 1 | | 1 | 6-1 1 | i | , | 1 | fr. |
| | | 13 | Open Burning | 4. | 1 | 1 | 1 | | 1 | i 1 | i | 1 | • | t , |
| | | ۽ ۾ | 1. Area | f | f · · | 1 | 1. | |) | 1 | · ' | 1 | 1 | 1 |
| | | | 2. Point | 1 | 1 | 1 | 1: | | | 1 | 1 | 1 | 1 | 1 |
| | () () | Ċ. | Total Solid Waste Disposal | 3858.66 | 1 | f | 1 | 1 | | | , | 1 | | |
| ٧. | . 7 | Tran | nsportation | | A construction of the cons | Complete and Application of the Complete of th | A STATE OF THE PARTY OF THE PAR | | - | 1 | Annihimation of the section of the s | The state of the s | | - |
| | 1 7 | A. | Motor Vehicles | 1 1 1 1 1 1 1 1 | 1 1 1 | 1 | 1 * : | | · · | 1 - 1 - 1 | į, | 1 | 1 | |
| 1174 | . 1 5. | | 1. Gasoline | 1 | 1 100 | $f 1$ for $i \in \mathbb{Z}$ | 4 Commence | | 1 | £ | · " ' | 1 | 1-3 | 1 |
| 11118.1 | 10 | 5 | | 4 | 1 1 1 1 1 1 1 | 1731 1827 | (di | 1 | f | E. 1 | ϵ | 1 | 1 2 2 2 2 2 3 | |
| 100 | | 4. | Off-Highway Usage | Part Part | t | 1 | 1 - 1 | | • 4 | 1 | $C = \sum_{i=1}^{n} C_i C_i$ | 1 | (// i | 1 |
| 100 | | n. | Railroads | 1 | 1 | 1 | 1 | 1 | . } | , | 1. | | | i |
| | | | Vessels | £ | 1 | 1 | 1 | |) | f. J | 4 | | 1 1 | 1 |
| | | | | 1 | 1 | 1 2 2 2 2 1 | 1 | . " | j | 1 1 | <i>(</i>) | 1 | 1 7 | |
| ÷. | | G. | Total Transportation | 853740.91 | - | | | | | 1 | in the management arter end of | √ × · · · · · | | 1 |
| | · · | • • • | े किया किया है। किया किया किया किया किया है किया है। विकास किया किया किया किया किया किया किया किया | | | <u> </u> | ************************************** | | - | | f | juid-visindariksi vi iske ru a | for appreciations or assessment | - |
| | | | | | | | 1 | | | | | , | | |

| 709 | LUTANT: Carbon Monoxide | PECTON. | Nest Centra | 1 routes | | | | | | | |
|-----|---|--|--------------------|------------------------------|-----------------|---|--|------------------|-----------------------------------|-------------------------------|--------------------------------------|
| | College Postonage | the state of the s | Citrus** | • | Hardee** | Hernando | Hernandö* | Hillsigh_ | Hills ** | Levy | Levy ** |
| VI | Miscellaneous Area Sources. A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning | 780.9 1676.5 | 780.9 1676.5 | 692.5 9109.1 | 692.5 9109.1 | 674.9 1457.8 | 674.9 1457.8 | 4149.9 1542.5 | 4149.9 1542.5 | 782.87 3782.4 | 782. 87 3782. 4 |
| | C. Grove Protection | 25 59:4 | 2587:4 | 307 | 30.7 | <u>. 131 </u> | 2253.7 | 2351 | 2351 | managaning to a second | |
| 277 | D. Total Miscellaneous | The state of the s | 12233.97 | 10108.6 | 10108.6 | <u> 2263.7</u> | Constitution of the same of th | 8043.4 | 8043.4 | 4575.27_ | the state of the state of |
| /II | Grand Total A. Area B. Point | 12233.97 11650:17 583.80 | 11650.17 583.80 | 15415.66 15415.66 0.00 | | 8897.80 | | 383661.54 | 385899.54 383661.54 2238.00 | 12239.61 12239.21 0.40_ | 12239.61 12239.21 0.40 |

| PC F | LUTANT: Carbon Monoxide | REGION: West | Central Florida | | | |
|------------|---|---------------------|------------------|--------------------------------|--------------------------------|---|
| 277 | Minanii anna Amar Amar | Manatee | Pasco | Pine las | Polk | SIMITAR AND AND AND AND AND AND AND AND AND AND |
| VI | Miscellaneous Area Sources. A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning | 813.0 10693.3 | 1109.9 2405.5 | 1055.0 399.3 | 890.9 35241.5 | 780.9 1676.5 |
| | C. Grove Protection | 458 | 403.0 | 25 | 3027 | 50.0 |
| /II | D. Total Miscellaneous Grand Total | 11964.3 42252.89 | 3918.4 | 1479.3 | 39159.4 | 2506.4 |
| | A. Area B. Point | 42252.75 | 24215:58 0.58 | 250150.71 250144.25 6.46 | 183157.63 183152.39 5.24 | 12576:37 |

PULLUTANT: Hydrocarbon

REGION: West Central Florida

| | mit. hydrocaraon | parameter and the second | | | garage and provided a second | | 1 | 141116- | Annual Section 19 Section 2 | The second secon | |
|---|-------------------------------|---------------------------------------|--------|--------|------------------------------|---|--|--|--|--|---|
| I. Fue | al Combustion | Citrus | | Hardee | | Hernando | | Hillsigh . | The state of the s | evy | |
| A . | Residential and | | | | | | | | | | |
| 41. | Institutional Fuel | ٠ | | | | | | | | | |
| | 1. Coal or Coke | | | | | 4 | | | | | 1 |
| | a. Area | | | 1.0 | | | | | | | |
| | b. Point | | | | | | | | | | |
| | 2. Distillate Oil | | | | | | | | | | |
| | a. Area | 1.41 | | 0.84 | | 1.1 | | 54.9 | | 1.18 | |
| • | b. Point | | | * | | | | | | | |
| | 3. Residual Oil | | | | | | T | 3. | | | 1 |
| | a. Area | 0.08 | | 0.07 | | 0.08 | | 2.25 | | 0.06 | 4 4 |
| | b. Point | | | | | | | | | | |
| | 4. Natural Gas* | | | | | | | | | | |
| | a. Area | 0.23 | | 0.18 | | 0.20 | 1 | 5.87 | | 0.14 | |
| * | b. Point | | | | | | | | | | |
| | Combination | | | | | | | | Hart John State of the | | |
| | a. Area | | | | | | | | | | 1 |
| * * | b. Point | | | | | 100 A 141 | | | | | |
| В. | Commercial | | | | | | | | | | |
| | 1. Distillate Oil | | | | | | | e nm | | A 3 | |
| ٠. | a. Area | 0.10 | | 0.04 | | 0.07 | | 5.37 | | 0.1 | |
| | b. Point | | | | | | | | | | |
| | 2. Residual Oil | | 1 11 4 | | | | | ~* | | | 11. 人工扩充外 |
| | a. Area | | | | | | 1 | 97 | | | |
| Q | b. Point | | | | | | | | | | |
| - c. | Industrial Fuel | | | | | | | | | | |
| Ğ | 1. Coal or Coke | | | | | | | | | | |
| - T | a. Area | | | | | | | | | | |
| | b. Point | | 2 | | | | ∮ tu ti i i i i i i i i i i i i i i i i i | | | | |
| | 2. Distillate Oil | | | | | | | | | | |
| | a. Area | | | | | | | 17.0 | | | |
| ar ar ar | b. Point | | | | | | | | | | |
| * | 3. Residual Oil | | | | | 0.62 | 1 | 19.0 | | 4 | |
| | a. Area | | | | | J.U. | | 64.0 | | | |
| | b. Point | | | | | | | | | | |
| e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de | 4. Natural Gas a. Area | | | | | | | 101.0 | | | |
| | b. Point | | | | | | | 91.0 | | | |
| Tage 1 | 5. Process Gas | | | | | | 1 | | | | |
| | a. Area | | | | | | | 91.0 | | | |
| | | | | | | | | 1 | | ** | |
| | b. Point | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | † La company de la company de la company de la company de la company de la company de la company de la company d | - | The second section is the second second to | Angele and the contract of the | | A Contraction of the contraction |

^{*} Includes Commercial Uses

POLLUTANT: Hydrocarbon

REGION: West Central Florida

| ī. | Fue | l Combustion | Manatee | | Pasco | nakaban sakanan da 1960 sa sakar sa sa sakar saka sakar sakar | Pinellas | Samily, I dicho administra ammany romany materials — mydyddolei a mel | Polk | er næter i næte i hæreren di Military, sagen, yans | Sumter | |
|--------|----------|--|--------------|--|--|---|----------|--|--|--|--|---------------------------------|
| | | Residential and Institutional Fuel 1. Coal or Coke a. Area | | | | | Á | • ' | | | | |
| · . | | b. Point 2. Distillate Oil a. Area b. Point | 6.37 | | 4.71 | . 1 | 45.44 | | 19.64 | | 1.23 | |
| ke, | | 3. Residual Oil a. Area b. Point | 0.44 | | 0.35 | | 2.4 | | 1.05 | | 0.07 | |
| | | 4. Natural Gas* a. Area b. Point | 1.16 | | 0.91 | | 6.26 | | 2.72 | | 0.18 | |
| | | 5. Combination a. Area b. Point | China Carlos | | | | | • | | | | |
| | . | Commercial 1. Distillate Oil a. Area b. Point | . 0.41 | erinde grant de constant de co | 0.28 | | 3.83 | | 1.65 | | 0.1 | |
| , Д | | 2. Residual Oil a. Area b. Point | | pace-physical regulations | | | | | | | X | |
| -100 | C. | Industrial Fuel 1. Coal or Coke a. Area | | No. of the control of | age plants and the second seco | | | | | | | |
| • | | b. Point 2. Distillate Oil a. Area | | Accompany | Berrinbage popularity and the second | | | * | • " | | | |
| | | b. Point 3. Residual Oil a. Area | | Angelogica carrieda a milas | | | 5.8 | | 8.54 | | | |
| | | b. Point 4. Natural Gas a. Area | | ak işin merinde derind | 28.93 | | | | A. 3.4 | • | | |
| | | b. Point 5. Process Gas a. Area | | | Apple and the second of the se | | | | Total Control of the | • | | geldengemägnete, a. e. e. e. e. |
| 4. T | | b. Foint | | | | s Santonibundi sunggyprink Nipagos, salgar ngolin Nipato | | and the state of t | To dispute the state of the sta | odk one ombiente , e orbostrok jok | anner de la faction des parties de la faction de la factio | <u> </u> |

 ^{*} Includes Commorgial Uses

| (| 1 | |
|---|---|--|
| 1 | d | |
| - | | |
| | | |

| OLLUTANT: Hydrocarbo | | | est Cen | tral Flori | da_ | rimation for deposits and | Marian de la companya | | rande and and annual section of the | | | a day |
|-------------------------------|--|------|------------------------------|------------|---------------------------|---------------------------|--|--|---|--|---|--------------|
| | Citru | S | | Hardee | | | Hernando | | Hàllagh : | and the second s | Levy | 1 |
| 6. Wood or Ba | ark | | | | | - | | | | | | |
| a. Area | • | | | | , | | | | | | 13.05 | |
| b. Point 7. Combination | | | | 4.3 | | | | | | | | 1 |
| a. Area | 211 | 1 | | | | | | | | * | | |
| b. Point | | l | | | | | | | | | <i>i</i> | |
| D. Total Fuel | 1 | .82 | | 1.13 | | | 2.07 | 20000001 Water award conferen | 548.39 | TO SHALL SHA | 14.53 | |
| Combustion | | | | | | | | | | | | - |
| . Power Plants | | | | | | | | | | | | |
| A. Coal | | | | | | | | | | | | ĺ |
| B. Distillate Oil | L I | | | | | | | | 194.0 | | | İ |
| C. Residual Oil | ! | | | | | | | | 630.0 | | | 1 |
| D. Natural Gas | 1 | | | | | | | | | | 42.7 | |
| E. Combination | 400 | | | | | | | | | | | ļ |
| F. Total Power Pl | ants 400 | . / | | | - | | | | 824.0 | | 42.7 | |
| . Process Emissions | | | | | | | | | 176.0 | | | |
| A. Chemical B. Food and Agric | | | | | | | 1.1 | | 1.0 | | | |
| C. Metallurgical | intente | - 1 | | | |] | 1.4 | | 869.0 | | ł | ĺ |
| D. Mineral | 1 | | | | | | 8.06 | | 40.0 | | | |
| E. Wood | | | | * N. | | | 5.50 | 4 to 1 | | | | |
| F. Petroleum Stor | age | . | | | | 1 | | | 11822.0 | | | |
| G. Petrochemical | Operations | | | | | | | | | | | |
| H. Total Process | Emissions | | and where the same is not in | | | I | 9.16 | | 12908.0 | | | |
| Solid Waste Dispos | al | | | | | | | | | | | |
| A. Incineration | The state of the s | 1 | • | | | | | | | | | |
| 1. Area | 1 1 | . 24 | | 0.61 | | | 1.16 | | 103 | | | |
| 2. Point | | | | # J. # 57 | | | कर कर | | 1603.0 | | 100 | |
| B. Open Burning | 1 | 1 | | | | - | - | | 718.0 | | | |
| 1. Area 2. Point | | | | | | | | | | | | |
| | 7 | 24 | | 0.61 | **OMES-PERMIS ENVIRONMENT | minimi | 1.16 | tan kanada in angalagan kanag-unikapan para penunsah | 2424.0 | our retires resident control control control con | · vi quiz, miljusti dina manima distantanta | |
| C. Total Solid Wa | see mrshosan + | | | 4.91 | | | T-10 | | 2424.0 | | | - |
| A. Motor Vehicles | | | | | | | | | | • | | |
| 1. Gasoline | 1739 | 8 | | 1010.0 | | 1 | 1261.7 | | 59893.3 - | | 1475.9 | |
| 2. Diesel | | 06 | | 10.47 | | | 13.11 | | 462.6 | | 15.3 | |
| B. Off-Highway Us | | | | | | | 71.8 T 7 T | | | | | |
| C. Aircraft | | | | | | | | • • | 2347.0 | | | |
| D. Railroads | | | | | | 1 | 2.37 | | 216.4 | | 0.01 | ľ |
| E. Vessels | | | 1.00 | | | | | | | | | |
| F. Gasoline Handl | ing 114 | 89 | | 66.7 | | | 83.3 | poleone a una emplatification (). | 2938.7 | | 97.5 | 1 |
| G. Total Transpor | tation 1872 | .75 | THE WARRANT COMM | 1087.17 | | | 1360.48 | AND THE PERSON NAMED OF THE PARTY OF THE PAR | 65858.0 | general property and the second | 1588.71 | |

15 THE

| Manatee Pasco Pinellas | | a. Area b. Point 7. Combination a. Area b. Point D. Total Fuel Combustion Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | | | | ă. | | | 37.64 71.24 | d | Sumter 1.58 |
|--|-------------|--|--|------------|--|--|--|------------------------------|----------------|--|--|
| a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point D. Total Fuel Combustion II. Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants II. Process Emissions A. Chemical B. Food and Agriculture B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrodemical Operations H. Total Process Emissions II. Area 2. Point B. Open Burning I. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Mctor Vehicles I. Gasoline 2. Diesel 3. 59.37 3. 40.14 3311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1. Area 2. Diesel 59.37 40.14 3311.64 B. Off-Highway Usage C. Aircraft D. Railroads | | a. Area b. Point 7. Combination a. Area b. Point D. Total Fuel Combustion Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | 8.33 | | 35,18 | ā. | 63.73 | | | d | 1.58 |
| D. Point T. Combination a. Area b. Point B. 38 35.18 63.73 Combustion Combusti | | b. Point 7. Combination a. Area b. Point D. Total Fuel Combustion Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | 8.33 | | 35,18 | ă. | 63.73 | | | d | 1.58 |
| 7. Combination a. Area b. Point D. Total Fuel Combustion II. Power Plants A. Coal B. Distillate oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants II. Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions II. Area 2. Point B. Ogen Burning 1. Area 2. Foint C. Total Solid Waste Disposal A. Motor Vehicles 1. Gasoline 3.661.1 C. Besol B. Off-Highway Usage C. Aircraft D. Railroads 1.63 3.6 3.73 3.8 3.18 6.3.73 2.4.15 3.5 6.89.26 7.13.41 2.4.15 2.62 3.5 7.13.41 2.62 3.5 7.13.41 2.62 3.5 7.13.41 2.62 3.5 7.7 3.6 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4 | | 7. Combination a. Area b. Point D. Total Fuel Combustion Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | 8.33 | | 35.18 | | 63.73 | | | d | 1.58 |
| D. Point D. Total Puel S.38 35.18 63.73 Combustion | | b. Point D. Total Fuel Combustion Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | 8.38 | | 35,18 | | 63.73 | | | d | 1.58 |
| D. Total Fuel Combustion II. Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral B. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions II. Area 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal A. Motor Vehicles 1. Gasoline 1. Gasoline 2. Diesel 3. Diesel 3. Diesel 3. Diesel 3. Diesel 3. Diesic Storage 40. 163 30. 320 30. 330 30. 330 | | D. Total Fuel Combustion Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | 8.38 | | 35,18 | | 63.73 | | | d | 1.58 |
| Combustion II. Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants Total Power Plan | | Combustion Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | 8.38 | | 35,18 | | 63.73 | | 71.24 | The second secon | 1.58 |
| Combustion Com | | Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | | | Control of the Contro | | | 1 | 1 | | 1 |
| A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants III. Process Emissions A. Chemical B. Food and Agriculture C. Netallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions I. Area 2. Point B. Open Burning I. Area 2. Point C. Total Solid Waste Disposal A. Incineration A. Motor Vehicles I. Gasoline A. Motor Vehicles I. Gasoline C. Aircraft D. Railroads J. Aircraft D. Railroads J. Aircraft J. Aircraft J. Dissell J. Aircraft J. Dissell J. Aircraft J. Dissell J. Jiesel J. | | A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | The second secon | | nazionate più gamen | | - 1 | | ٠. | , | * |
| B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination 689.26 F. Total Power Plants 713.41 Total Process Emissions A. Chemical 2.62 B. Food and Agriculture 13.8 3.5 C. Metallurgical 0.72 E. Wood F. Petrocleum Storage G. Petrocleum Storage G. Petrocleum Storage G. Petrocleum including G. Petrocleum includ | III | B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | | | | Į. | | Į. | | # | |
| C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants III. Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions II. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal A. Motor Vehicles 1. Gasoline A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads 1. L63 24.15 689.26 | III | C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants | No order or an analysis | | f . | | + | 1 | | 1 | 1 |
| D. Natural Gas | III | D. Natural Gas B. Combination F. Total Power Plants | | 1 | i i | i | | - 20 T | | 1 | |
| E. Combination F. Total Power Plants III. Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petrolaum Storage G. Petrochemical Operations H. Total Process Emissions IV. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Dissel 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 2. Dissel 3.6 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 2. Dissel 3.6 3.6 3.6 3.7 3.7 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 | III | E. Combination F. Total Power Plants | | 3 | 1 | ا بيونت | 24.15 | | 59.22 | 1 | |
| F. Total Power Plants | III | F. Total Power Plants | | .1 | [| į. | 500 26 | | 126.56 | 1 | |
| III. Process Emissions | III | | | + | 1 | and described the second secon | The second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the section of the secti | - | 185.78 | | 1 |
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| B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions IV. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 5762.1 3861.1 2. Diesel 59.87 40.14 311.64 C. Aircraft D. Railroads 1.63 | 1 1 | A. Chemical | | | | | 0 60 | | 42.00 | , , , , | |
| C. Metallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions IV. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal IO.0 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 3. Off-Highway Usage C. Aircraft D. Railroads 1.63 | | B. Food and Agriculture | 13.8 | ·1 / | - 1 |) | 4.04 | | 43.96 | | T-T-T-T-T-T-T-T-T-T-T-T-T-T-T-T-T-T-T- |
| D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions IV. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 3. Off-Highway Usage C. Aircraft D. Railroads I. Aigna I. Aigna I. Aogna I. Aogna I. Gasoline II Gasoline II Gasolin | | C. Metallurgical | . 🕩 | | | , | 3.3 | | 95.46 | į į | 1 1 |
| E. Wood F. Petrolaum Storage G. Petrochemical Operations H. Total Process Emissions IV. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads I. 6.84 6.84 10.0 3.6 44.9 44.9 44.9 5762.1 3861.1 40351.3 311.64 | | D. Mineral | | | | į · | 0.72 | 1 | 6.9 | i , | 1 |
| F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions IV. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 5762.1 3861.1 40351.3 311.64 C. Aircraft D. Railroads 1.63 | | E. Wood | , | | | r . | 1 | 1 | P . 7 | 1 | 6.13 |
| G. Petrochemical Operations H. Total Process Emissions IV. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal I. Gasoline A. Motor Vehicles 1. Gasoline 5762.1 3861.1 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads 1.63 59.87 1.63 6.84 | | F. Petroleum Storage | | 1 | | į | spiros. | | | į. | 1 |
| H. Total Process Emissions 13.8 IV. Solid Waste Disposal A. Incineration 1. Area 10.0 3.6 44.9 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal 10.0 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 5762.1 3861.1 40351.3 2. Diesel 59.87 40.14 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | 200 | G. Petrochemical Operations | Laurinian | | 1 | han a generality on placing to the Paper part of the Section and Paper paper and | | | الربيب بنيانك | 1 | 1 |
| IV. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 5762.1 3861.1 40351.3 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | | H. Total Process Emissions | 13.8 | | | | 6.84 | | 146.32 | 1 | 6,13 |
| A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 3.6 44.9 40.14 311.64 5. Off-Highway Usage C. Aircraft D. Railroads 1.63 | IV. | Solid Waste Disposal | | | 1 | AND THE PERSON NAMED IN COLUMN TWO IS NOT | | - | · · | f | |
| 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal 10.0 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 5762.1 3861.1 40351.3 2. Diesel 59.87 40.14 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | **** | A. Incineration | | 1 | 1 | 1 - 1 | | | <i>i</i> : | , | |
| 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal 10.0 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 5762.1 3861.1 40351.3 2. Diesel 59.87 40.14 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | | | 10.0 | | 3.6 | i · | 44.9 | | 22.2 | 1 | |
| 1. Area 2. Point 2. Point C. Total Solid Waste Disposal 10.0 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 5762.1 3861.1 40351.3 2. Diesel 59.87 40.14 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | | 2. Point | | 1 | 1 | , | | | | 1 | f |
| 2. Point C. Total Solid Waste Disposal 10.0 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 5762.1 3861.1 40351.3 2. Diesel 59.87 40.14 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | | B. Open Burning | | | 1 | į | | 1 | | 1. | 1 |
| C. Total Solid Waste Disposal 10.0 3.6 44.9 V. Transportation A. Motor Vehicles 1. Gasoline 5762.1 3861.1 40351.3 2. Diesel 59.87 40.14 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | | | | | | i | | - 1 | | j | |
| V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel 3. Off-Highway Usage C. Aircraft D. Railroads 3. Note | 1 | 4. FOINE | - | | - | ادر در پیدیو، در پیدیو ا دیومونو ا | 1 | | , <u></u> | from the comment | 4 |
| A. Motor Vehicles 1. Gasoline 2. Diesel 5762.1 3861.1 40351.3 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | T. | C. Total bolls waste bispusa | -11 | | 13.6 | Marie Application and Application of the Persons | 44.2 | | 22.2 | (manipulation of | + |
| 1. Gasoline 5762.1 3861.1 40351.3 2. Diesel 59.87 40.14 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | ₩. | Transportation | | | | | | 1 | , | (| 1 |
| 2. Diesel 59.87 40.14 311.64 B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | | A. MODOE VEHIOLES | 5762.1 | d in the f | 2061 7 | | AAAET 3 | | | 1 | 1 |
| B. Off-Highway Usage C. Aircraft D. Railroads 1.63 | | | 59.87 | | | I : : : : : : : : : : : : : : : : : : : | 40301.3 | | 23341.8 | 1 | 1872.3 |
| C. Aircraft D. Railroads 1.63 | | | 77.75 | | **** | | 311.00 | | 180.29 | 1 | 19.44 |
| D. Railroads | el de | C Aircraft | | | 1 | 1 | | 1 | i T | (· · · · · · · · · · · · · · · · · · · | L |
| the manufacture of the state of | | D. Railroads | 1.63 | |]] | | 22.0 | | (| 1 | 1 1 2 2 1 |
| E. Vessels | 1 July 1 | F. Vessels | **** | | 1 | 1 : | 33.0 | I | 141.5 | * * * * * * * * * * * * * * * * * * * | 163.9 |
| F. Gasoline Handling 380.5 254.98 1979.85 | | | 380.5 | | 254.98 | i | 1070 05 | 4 | 1145.3 | 1 | 123.6 |
| | | G. Total Transportation | 6204.1 | | 4156,22 | | 42675.79 | i de si per aras, made sesso | 24808.89 | 1 | 2179.24 |

| | POI | GOUTANT: Hydrocarbon | | West Cen | tral Floria | la | engan regioner van samme Miller metalen deligen verbreite, oran | gamminagilane - principi, es aminene innasadesperi i - sens | 1878 - Al Sin antimizzation of the state of | generativo adolida agua sa ar dende o a aguação platific aguadam, a sid | |
|--|---------------------------------------|--|-----------|----------|-------------|----|---|---|---|---|--|
| | | 6. Wood or Bark a. Area b. Point 7. Combination a. Area b. Point | TOTALS | • | • | | | | | | |
| The state of the s | II. | D. Total Fuel Combustion Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination | 748.05 | | | | | | | | |
| The second secon | III. | F. Total Fower Plants Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations | 2166.59 | | | | | | | | |
| C-193 | IV. | H. Total Process Emissions Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point | 13090.25 | | | | | | | | |
| | | C. Total Solid Waste Disposal Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling | | | | | | | | | |
| | * * * * * * * * * * * * * * * * * * * | G. Total Transportation | 151791.35 | | | | | | | | |

| | er i de la compania del compania del la compania del compania de la compania de la compania de la compania del compania | | the wy | | | | |
|-----|--|------------------------------|--------------|----------------------------|----------------|--|---|
| | The state of the s | N. | | The ball on the second | | | |
| PO | LUTANT: Hydrocarbon | REGION: Citrus | West Central | Florida Hardee | Hernando | radistrissionamentamentamentamentamentamentamentamen | en granisaria con en esperante a conserva continue por tici de tradación de sedesta en en destre - en |
| VI | Miscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural and Landelearing Burning | 170.4 335.3 | | 151.1 1821.8 | 147.3 291.6 | 905.4 | 170.8 |
| | C. Grove Protection D. Total Miscellaneous | 517.7 | | 74 | 31 469.9 | 570 1783.9 | 927.3 |
| JII | Grand Total A. Area B. Point | 2794.21 2393.51 400.70 | | 3135.81 3135.81 0.00 | 1843:77 | 84346 29 68856 29 15490 00 | 25 73 . 24 25 30 . 54 42 . 70 |

POTAUTANT: Hydrocarbon

VI Miscellaneous Area Sources
A. Forest Fires
B. Agricultural, Silvicultural
and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
//II Grand Total
A. Area
B. Point

| | REGION: W | est Centra | l Plorida | | | | | | | |
|-----|--------------------------|--|----------------|----|--------------------|--|--------------------|--|-----------------|-----------|
| | Manatee | The special sections and the section of the section | Pasco | | Pinellas | | Polk | | Sumter | |
| î2 | 177.4 2138.7 | | 242.2 481.1 | | 230.2 79.9 | | 890.9 7048.3 | | 170.4 335.3 | |
| | 111 | | 97 | | 6 | | 734 | | 12 | |
| | 2427.1 | | 820.3 | | 316.1 | | 8673.2 | - 10 10 10 10 10 10 10 10 10 10 10 10 10 | 517 7 | 1.11.2.2. |
| | 8663.38 | | 5015.3 | | 43820.77 | William State of the State of t | 33907.63 | | 2704.65 | |
| . [| 86 49.58 13.80 | | 4986.3 28.9 | Į. | 43100.52 720.25 | hander and the second of | 33537.89 369.74 | | 2698.52 6.13 | |

POLLUTANT: Hydrocarbon

VI Miscellaneous Area Sources
A. Forest Fires
B. Agricultural, Silvicultural
and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
VII Grand Total

A. Area

B. Point

| | REGION: W | est Centra | 1 Florida | to the terror and a second second parameter property and the | | | | | | |
|----|-----------|--|-----------|--|--|---|--|----------|--|---|
| 1 | TOTALS | | | | | | | | | |
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| al | | and the second s | | ž. | | | ease measure of the control of the c | | | , |
| | | | | TALLER STATE OF THE STATE OF TH | and the state of t | | ar execution of the control of the c | | | |
| 1 | 18500.10 | | | | | | | | | |
| | 188804.05 | | · | | | | | | | |
| | 171722.64 | | | | | | | | | 1 |
| | 17081.41 | | | | | 1 | <u> </u> | <u> </u> | Marie notinematical une articular de company | |

| POL | LUTA | NT: Nitrogen Oxides | | REGION: W | est Centr | al Florida | | | | | | |
|------------|------|--------------------------|--------|---------------------------------------|-----------|------------|----------|-----------|------------|---------------------|------|--------|
| Ŧ | ·Fue | 1 Combustion | Citrus | Citrus** | Hardee | Hardee** | Hernando | Hernandő* | Hills- | Hills-** borough | Levy | Levy** |
| * * | A. | Residential and | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | | obitough. | 1 | | |
| | *** | Institutional Fuel | | | | | | | | | | |
| | | 1. Coal or Coke | | | | 1 | | | | | - | |
| | | a. Area | * . | | | | | | | | | |
| | | b. Point | | | | | | | | 1 | | |
| | | 2. Distillate Oil | | | | | | | | | | |
| | | a. Area | 5.63 | 5.63 | 3.34 | 3.34 | 4.45 | 4.45 | 219.7 | 219.7 | 4.67 | 4.67 |
| | • | b. Point 3. Residual Oil | | | | | | | | | | |
| | | a. Area | 2 25 | 0.35 | | 0.27 | | 0.71 | | | | 0.00 |
| * | | b. Point | 0.35 | 0.33 | 0.27 | 0.27 | 0.31 | 0.31 | 9.0 | 9.0 | 0.02 | 0.02 |
| | | 4. Natural Gas* | | | | | | | | | | |
| | | a. Area | 1.58 | 1.58 | 1.23 | 1.23 | 1.4 | 1.4 | 40.38 | 40.38 | 0.99 | 0.99 |
| | | b. Point | | | 2.23 | | | | 20.30 | | 9,33 | |
| | | 5. Combination | · 🔨 | ! | | | | | | | · | |
| | | a. Area | | | | . 1 | | | | | | |
| | _ | b. Point | | | | | | | - - | | | |
| | в. | Commercial | | | | | | | | | | |
| | | 1. Distillate Oil | | | | | | | | | | |
| | | a. Area b. Point | 2.06 | 2.06 | 0.86 | 0.86 | 1.45 | 1.45 | 107.4 | 107.4 | 2.07 | 2.07 |
| | | 2. Residual Oil | | | | | 1.4 | | | | | |
| | | a. Area | | | | | | | | | | |
| ဂူ | | b. Point | • | | | | | , | | | | |
| سب | c. | Industrial Fuel | | | | | | 2 | | | | |
| 107 | | 1. Coal or Coke | | | • | | | | | | | ** |
| 7 | | a. Area | | | | | | | | | | |
| | | b. Point | | | | | | * * *. | | | ٠., | |
| 9 <u>0</u> | | 2. Distillate Oil | | | | • | _ | · | | | | |
| | | a. Area | | | | | | | 400 | 400 | | |
| | | b. Point | | | * | i | | | 55 | 55 | | |
| | | 3. Residual Oil a. Area | | | | | . | | | _ | | |
| | | b. Point | | | | | 12.5 | 12.5 | 31 | 31 | | |
| | | 4. Natural Gas | | | | | | , | 2214 | 2214 | | |
| | | a. Area | | | | | | | 150 | 158 | | |
| • | | b. Point | | | | 1 | | | 158 416 | 416 | | |
| | | 5. Process Gas | | | | | | | #T0 | 710 | | |
| - | | a. Area | | | | | | ·- | 266 | 266 | ٠ | |
| | | b. Point | | | • | : | | | 200 | | | i |

^{*} Includes Commercial Uses

REGION: West Central Florida Nitrogen Oxides Pinellas Sumter** Manatee Manatee** Pasco Pasco** Pinellas Polk Po1k ** Sumter I. Fuel Combustion A. Residential and Institutional Fuel 1. Coal or Coke a. Area b. Point 2. Distillate Oil 4.82 a. Area 25.49 25.49 18.88 181.65 78.6 18.88 181.65 78.6 4.82 b. Point 3. Residual Oil 0.27 1.8 1.8 1.4 1.4 _ 9.6 9.6 4.2 4.2 0.27 a. Area b. Point 4. Natural Gas* 6.26 1.22 a. Area 8.0 8.0 6.26 43.02 43.02 18.71 18.71 1.22 b. Point 5. Combination a. Area b. Point B. Commercial 1. Distillate Oil 76.62 32,99 2.0 5.68 a. Area 8.28 8.28 5.68 76.62 32.99 2.0 b. Point 2. Residual Oil a. Area C b. Point C. Industrial Fuel 1. Coal or Coke a. Area b. Point 2. Distillate Oil a. Area b. Point 3. Residual Oil a. Area 24.09 12.28 12.28 11.7 24.09 11.7 b. Point 578.59 578.59 93.24 93.24 158.7 158.7 4. Natural Gas a. Area. b. Point 5. Process Gas a. Area

b. Point

^{*} Includes Commorcial Uses

| | NT: Nitrogen Oxides | REGION: | Citrus ** | Hardee | Hardee** | Hernando | Hernando** | Hills- | Hills-** borough | Levy_ | levv* |
|---------|----------------------------|---------|--|----------------------|----------|--------------------|---|-------------------------------------|---------------------|---------|----------------|
| | 6. Wood or Bark | | | | | | | borough | · | 43 | Levy |
| | a. Area b. Point | | | | , | | | | | Í | |
| | 7. Combination . | | | | ; | · | | | | 65.2 | 65.2 |
| | a. Area | | • | - | | | | | | | |
| | b. Point | | | | | | magazzatta waza ayata 1880 aya aya aya aya aya aya aya aya ay | more or agreement groupe and the co | , | | |
| D. | Total Fuel | 9.62 | 9.62 | 5.70 | 5.70 | 20.11 | 20.11 | 3916. 58 | 3916.58 | 72.95 | 72.9 |
| | Combustion | | | | | · | | | | | |
| | er Plants | | | | | | | | | | |
| | Coal Distillate Oil | | | 10.16 | 10 16 | | | 0121.0 | 26200.0 | } | |
| | Residual Oil | | | 19.16 | 19.16 | | | 3335 | 1538.9 | | |
| | Natural Gas | | | · | S.A. | | | 3335 | 1330.9 | | |
| | Combination | 18500 9 | 12738.13 | | | | | | | 422.2 | 332.2 |
| | Total Power Plants | 18500.9 | 12738.13 | 19.16 | 19.16 | | | 33456.0 | 27738.9 | 422.2 | 332.2 |
| | cess Emissions | | | | 1,1 | | | | | | i |
| | Chemical | - | | | | 160.65 | | 732 | 732.0 | | |
| В. | Food and Agriculture | | | | | 21.9 | 21.9 | 43 | 43.0 | į | |
| υ, | Metallurgical Nineral | . • | | | | | | į | 1 | ł | |
| | Wood | | | · | | | } | 7 | 1.0 | . | |
| | Petroleum Storage | | | | | | | T . | 7.0 | | |
| G. | Petrochemical Operations | | anna e ala mana anna di diagna di di di anna anna di di di anna anna | terr was a remainder | | | | | | | |
| | Total Process Emissions | | | | | 182.55 | 182.55 | 786.0 | 786.0 | | |
| | id Waste Disposal | | • | | | | | | | | |
| Α. | Incineration 1. Area | | 0.6 | | 0.3 | | 0.55 | | 24.3 | | |
| | 2. Point | 0.6 | 0.0 | 0.3 | 0.5 | 0.55 | 0.55 | 24.3 2001 | 2001 | | |
| я. | Open Burning | | | | | | ł | 2001 | 2001 | | |
| | 1. Area | | | | | | | | | - | |
| | 2. Point | | | | | a according to the | | | | | |
| c. | Total Solid Waste Disposal | 0.6 | 0.6 | 0.3 | 0.3 | 0.55 | 0.55 | 2025 3 | 2025.3 | | |
| 7. Tran | asportation | | | | | | | | a | | |
| Α. | Motor Vehicles 1. Gasoline | 3503 4 | 1501 1 | | 025.0 | | | | | | |
| | 2. Diesel | 1581.1 | 1581.1 | 917.9 | 917.9 | 1146.6 | 1146.6 | 34704.5 | 34704.5 | 1341.3 | 1341.3 |
| В. | Off-Highway Usage | 105.53 | 105.53 | 61.17 | 61.17 | 76.63 | 76.63 | 2703.5 | 2703.5 | 89.4 | 89.4 |
| | Aircraft | Janes I | | | | | | 626.0 | 676 0 | | |
| | Railroads | | | | | 2 55 | 3.55 | 636.0 | 636.0 | * | |
| - | Vessels | | | | | 3.55 | 3.33 | 324.5 | 324.5 | 0.01 | 0.0 |
| F. | Gasoline Handling | · | | | a | | | 867.0 | 867.0 | | |
| G. | Total Transportation | 1686.63 | 1686,63 | 979.07 | 979.07 | 1226,78 | 1226,78 | 39235,5 | 39235.5 | 1630 71 | <u> 1630.7</u> |

| | | | | | | | . • | | | | |
|-------|--|---------|-----------|---|-------------------------------|----------|---|---------|---------|--|--------------|
| | | | | | | | • | | | • | |
| POLLU | TANT: Nitrogen Oxideş | REGION: | | tral Flori | CONTRACT COMPANY AND ADDRESS. | | ا چارون دران دران دران دران دران دران دران درا | | | ganta anakasaan 1907 Selementendirik (1. 1. 1 | |
| | 6. Wood or Bark | Manatee | Manatee** | Pasco | Pasco** | Pinellas | Pinellas* | Polk | Polk** | Sumter | Sumter |
| | a. Area | | | | ž. | | | | | | |
| | b. Point | | | | | | | | | | |
| | 7. Combination | | | | | · | | | | | |
| | a. Area b. Point | | | • | | | | 245.32 | 245.32 | | |
| D | . Total Fuel | 55.85 | 55.85. | 610.81 | 610.81 | 428.22 | 428.22 | 550,22 | | | 8.3 |
| • | Combustion | | | | | 320.22 | 1-0120 | 330,22 | 330.32 | 0.34 | |
| | ower Plants | · | | | | | | | | ļ. | |
| | . Coal . Distillate Oil | | | | | | | | | · . | |
| | . Distillate Oil . Residual Oil | | | | | | | | | | |
| • | . Natural Gas | | | · | | 34555 | 67777 | 2022 | 70.4 | Live Control of the C | |
| . – | . Combination | | | ***** | | 14533.5 | 6377.1 | 3066,9 | 1943.5 | | |
| | . Total Power Plants | | | and transplanters - Ottobaldy corporation | | 14533.5 | 6377.1 | 3066.9 | 1943.5 | } | |
| | rocess Emissions . Chemical | · | | | | 52.38 | 52.38 | 771.88 | 771.88 | | 1 |
| | . Food and Agriculture | 58.65 | 58.65 | 173.48 | 173.48 | 69.93 | 69.93 | 1144.83 | | | |
| | . Metallurgical | | 0.4.0 | | | | | | | | |
| | . Mineral | 24.2 | 24.2 | | | | | 93.69 | 93.69 | 122.64 | 122.6 |
| | . Wood . Petroleum Storage | | | | | | | | | - | |
| | . Petrochemical Operations | | | | | | | | | - | |
| H. | . Total Process Emissions | 82.85 | 82.85 | 173.48 | 173.48 | 122.31 | 122.31 | 2010.4 | 2010.4 | 122.64 | 122.64 |
| | olid Waste Disposal | | | | | | | | , | | |
| A | . Incineration 1. Area | 4.8 | 4.8 | 1.7 | 1.7 | 21.3 | 21.3 | 10.5 | 10.5 | | |
| | 2. Point | | ,,, | | | 1.97 | 1.97 | 10.5 | 10.0 | | |
| В | . Open Burning | | | | ŧ | | | | | | |
| · . | 1. Area | · | | | | | | | | | |
| | 2. Point . Total Solid Waste Disposal | 4.8 | 4.8 | 1.7 | 1.7- | 23.27 | 23.27 | 10.5 | 10.5 | | |
| | ransportation | 7.00 | 4.0 | 4.1 | 1./ | 43.41 | 43.4/ | 10.5 | 10.5 | | |
| | . Motor Vehicles | | | | | | | | | | |
| | 1. Gasoline | 5236.6 | 5236.6 | 3509.0 | 3509.0 | 23381.1 | 23381.1 | 13525.1 | 13525.1 | 1701.5 | 1701.5 |
| r. | 2. Diesel . Off-Highway Usage | 349.87 | 349.87 | 234.6 | 234.6 | 1821.3 | 1821.3 | 1053.6 | 1053.6 | 113.6 | 113.6 |
| | . Oir-Highway Usage . Aircraft | | | | | | | | | | |
| , D | . Railroads | 2.45 | 2.45 | | | 49.5 | 49.5 | 212.3 | 212.3 | 245.9 | 245.9 |
| E | . Vessels | | | | | 15.5 | | | | 273.7 | |
| F | . Gasoline Handling | EE00 00 | FF00 00 | 2742 | 777. | | 25252 | | 14505 | | 5000 |
| G | . Total Transportation | 5588.92 | 5588.92 | 3743.6 | 3743,6 | 25251.9 | 25251.9 | 14791.0 | 14791.0 | 3060.0 | 13060.0 |
| | • | | | | | | | | | | |
| | | | | • | | | | | | | • |
| | | | | | e e | | | | | | *-10/M |
| | | | | | | | | | | | • |
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| | No. of the Control of | | | | ** | | | | | | |
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|------------|-----------|--|----------|--|--|--|--|--|--|---|--|--------------|
| | | • | | | | • | | • | | | | |
| | , | • | | | | ř | •. | | | | | |
| | POI | LLUTANT: Nitrogen Oxides | REGION: | West Cent | ral Florid | a | | | • | • | 1 | •- |
| | | 6. Wood or Bark | TOTALS | TOTALS** | | | antistant ad their described | | art - difficultation (Shind) States - co. kg = | | - | 6 |
| | | a. Area | | | | , | | | | | | |
| | | b. Point 7. Combination | | | , • | | | | | | | |
| | | a. Area | | · | 4 | _ | | | • | | | |
| | | b. Point D. Total Fuel | 5678.37 | 5678.37 | | **** | TARREST STATE OF THE STATE OF T | Annual or of the state of the s | | | | |
| | | Combustion | | 2010121 | And the state of | And the second state of the second second second second second second second second second second second second | | | | | THE COLUMN TWO IS NOT THE OWNER, WHEN THE | - |
| | II. | . Power Plants | | | | | | | | | · | ļ. |
| | | B. Distillate Oil | | | | | | | | | ٠ | |
| | | C. Residual Oil D. Natural Gas | | | | | | · | | | , | |
| | | E. Combination | 69998.66 | 49148.99 | | free of the confliction and principles of one of the confliction o | and and the second second second second second second second second second second second second second second | andre et martie right et fillsmiteraktigt met testes synstyssynstyssyns | | raminah rakasan kudi kupusa mengalah dalah dalam kelalah dari bir | | ļ. <u>'</u> |
| a | III. | F. Total Fower Plants Process Emissions | UJJJO.UU | 40140.00 | | | - people in the second | | Andready-Andready (Security Se | | | - |
| 8 | | A. Chemical B. Food and Agriculture | · | | | | . , | | | | | ! . |
| | | C. Metallurgical | | | | | | | • | | | ι. |
| • | | D. Mineral E. Wood | 1 | | | | | | s | | | |
| | | F. Petroleum Storage | | | | | | | ولِي | | | , |
| | W | G. Petrochemical Operations H. Total Process Emissions | 3480.23 | 3480.23 | The in the section of | | an die selfedier de de partie de proposition de la constitución de la constitución de la constitución de la co | ann ar print ag y jobh trefortrebakishdistraktistan treb | ennellikkelepskelet lebretikkelenemen elepresente | | - Agent & National Annual Spirite of Agents of Spirite | - |
| | īv, | Solid Waste Disposal | | - Company of the Comp | and the state of t | -4-august (glasge <mark>nden an</mark> natur process, Graffel (s. 4,654 t | edina mili estranska materioria i capita | | , Angan-Milataga Milataga ili pingga ili pingga antao 1,42% Milataw | | | |
| | | A. Incineration I. Area | | - | | * | | | | | | |
| | | 2. Point | | , | | | | | | | · | |
| | | B. Open Burning 1. Area | | | | | | | | | | |
| | | 2. Point C. Total Solid Waste Disposal | 2067.02 | 2067.02 | at nothing self- to this make make the grace of grace of the continues. | | व्याववेदाः व नक्षत्रकृतकृतकृतकृतकृतकृतकृतकृतकृतकृतकृतकृत | ः व व महत्त्वाच्याः त्याप्रदेशः नाम्बद्धाः गाउत्तरेशः व्यान् । ५ सः | इंग्लंक्स्प्रेट राग हो प्रियेश एक्टब्स्प्यूप्रेच व च्यान | करणाम् प्रावेशात्वः । स्वत्यु क्रम्पारणा | and the following security and the | |
| | ٧. | Transportation | 2007.02 | 2007.02 | | THE PERSON NAMED IN STREET, THE | -chemical extension of conjugation and constraint of the contract of the contr | | | | magnatus paganaman manining pangangan paganaman mananan mananan mananan mananan mananan mananan mananan manana | |
| | | A. Motor Vehicles 1. Gasoline | | | | ·- | | | • | | · | |
| 1 | * | 2. Diesel | | | | | | | | | | |
| : | • | B. Off-Highway Usage C. Aircraft | | | | | | | | | | |
| | *** * * * | D. Railroads | | | | | | | • | | | |
| • | • | E. Vessels F. Gasoline Handling | | | | | | | | | | , |
| | | G. Total Transportation | 97194.11 | 97194 11 | | | | | | | | - |
| | | • | | | | | | | | | | 1 |

POLLUTANT: Nitrogen Oxides

VI Miscellaneous Area Sources . . . A. Forest Fires

A. Forest Fires
B. Agricultural, Silvicultural
and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
II Grand Total
A. Area
B. Point

| | REGION: | West Centi | al Florid | a | · | | | | | |
|-----|--------------|--------------|----------------|---------------|--------------|--------------|-------------------|---------------|--------------|--------------|
| | Citrus | Citrus** | <u> Hardee</u> | Hardee** | Hernando | Hernando | Hills- borough | Hills -** | Levy | Levy ** |
| a I | 28.4 33.5 | 28.4 33.5 | 25.2 182.2 | 25.2 182.2 | 24.5 29.2 | 24.5 29.2 | 150.9 30.8 | 150.9 30.8 | 28.4 75.6 | 28.4 75.6 |
| | 8 | 8.0 | 52 | 52 | 22 | 22 | 402.0 | 402.0 | | |
| į | 69.9 | 69.9 | 259.4 | 259.4 | 75.7 | 75.7 | 583.7 | 583.7 | 104.0 | 104.0 |
| | 20267.65 | 14504.88 | 1263.63 | 1263.63 | 1505.69 | 1505.69 | 80003.08 | 74285.98 | 2229.86 | 2082.41 |
| - | 1766.75 | | 1244.47 | | 1323.14 | | | | 1742.46 | 1742.46 |
| Į | 18500.90 | 12738.13 | 19.16 | 19.16 | 182,55 | 182.55 | 38928.00 | 33210.90 | 487.40 | 397,40 |

POLLUTANT: Nitrogen Oxides

VI Miscellaneous Area Sources.
A. Forest Fires
B. Agricultural, Silvicultura and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous
VII Grand Total
A. Area
B. Point

| | REGION: | West Centr | al Florida | · | | | | | | _ |
|-----|---------------|------------------|-------------------|--------------|----------------------|-----------------------------|---------------------|----------------|-------------------|-------------------|
| | Manatee | Manatee* | Pasco | Pasco** | Pinellas | Pinellas* | Polk | Polk ** | Sumter | Sumter** |
| ral | 29.6 213.9 | 29.6 213.9 | 40.4 48.1 | 40.4 48.1 | 38.4 . 8.0 | 38.4 8.0 | 148.5 704.8 | 148.5 704.8 | 28.4 33.5 | 28.4 33.5 |
| | 78 | 78 | 69 | 69 | 4 | 4 | 517 | 517 | 8 | 8 |
| | 321_5 | 321.5 | 157.5 | 157.5 | 50.4 | 50.4 | 1470.3 | 1470.3 | 69.9 | 69.9 |
| | 6053.92 | 6053.92 | 4687.09 | 4687.09 | 40409.6 | 32253.20 | 21899 32 | 20775.92 | 3260.85 | . 3260.8 |
| | 5971:07 | 5971.07 82:85 | 3935:02 752:07 | 3935:02 | 25658:58 14751:02 | ^{25658.58} 6594.62 | 16418.00 5481.32 | 16418.80 | 3138.21 122.64 | 3138.22 122.6# |

| | BUTWH: Nitrogen Oxides | . RIGION: No | est Centra | l Florida | to a North production of | and the same of th | a see a see at the see | | , | | |
|-----|--|--------------|------------|--|--|--|------------------------|------------------------------|-------------|--------------------------|---|
| ИТ | Miscellaneous Area Sources | TOTALS | TOTALS** | | | | | a company and the company of | | rii Earlanda ann an A | |
| * 1 | A. Forest Fires | | | | manufacture manufa | Lavorage of the Control of the Contr | | | | | |
| | B. Agricultural, Silvicultural | | | | The state of the s | - | | | | | |
| | and Landclearing Burning C. Grove Protection | - | | | a and to see the second | The state of the s | | | and and and | | |
| | D. Total Miscellaneous | 3162.30 | 3162.30 | A CALL TO SERVICE AND A SERVIC | Analytic Statement Country and the second of the | | | | | | |
| II | Grand Total | 181580.69 | 160731.02 | | | | L | | | | |
| | A. Area | 102272.78 | 102272.78 | i i | | | | | | | |
| | B. Point | 1 79307.91 | 58458.24 | li . | | ! | t | | į | | 1 |

EMISSION INVENTORY SUMMARY

Central Florida Intrastate AQCR

| POL | LUTANT: Particulate | F | EGION: Ce | entral | aa ar na ka wan agaaga wa hii ilaada ili ilaa kaa kaa ka ka ka ka ka ka ka ka ka ka | ing the state of the control of the state of | | or stra, mistaco () or permitted little (1880 - 1890) | nga - Australia - Printings in a second of the mode | ukugi - d - a tapa - makumasakkama Amaniferatis. | The source of the section of the sec |
|-------|---|------------|---|--------------|---|--|---------|---|---|--|--|
| ı. | Fuel Combustion | Brevard | Lake | Orange | Osceola | Seminole | Volusia | | | | L |
| | A. Residential and Institutional Fuel 1. Coal or Coke a. Area | | | | | | | | | | |
| C-116 | b. Point 2. Distillate Oil a. Area b. Point | 56.54 | 20.56 | 90.13 | 6.5 | 20.3 | 44.23 | | | | eren eren eren eren eren eren eren eren |
| | Residual Oil Area Point Natural Gas* | 4.06 | 1.22 | 6.07 | 0.44 | 1.5 | 3.0 | | | | of ever community of every contract of the e |
| | a. Area b. Point 5. Combination a. Area | 11.55 | 3.48 | 17.28 | 1.27 | 4.2 | 8.51 | | The American | | |
| | b. Point B. Commercial l. Distillate Oil a. Area | 6.04 | 2.68 | 10.38 | 0.73 | 2.13 | 5.09 | | | | · · · · · · · · · · · · · · · · · · · |
| | b. Point 2. Residual Oil a. Area b. Point | | | | | | | | | | |
| | C. Industrial Fuel 1. Coal or Coke a. Area b. Point | | | | | | | | | | an delina deprima perima la constanta del co |
| á | 2. Distillate Oil a. Area b. Point | | · · | | | - | | | | | The state of the s |
| | Residual Oil Area Point Natural Gas | | TATAL | - | , | | | | | | Tree and tre |
| | a. Area b. Point 5. Process Gas a. Area | | | | | · management and a second and a | | | | | and the same of th |
| | b. Point | raggerer . | 1 | | : | | | 1 | | ! | |

^{*} Includes Commorcial Dises

| POI | LLUTANT: | Particulate | REGION: | Central | | | e de la companya de l | | ange as a second of the second | e manufactura de la companya del la companya de la | Control of the Contro | |
|-------------------|------------------|------------------------------------|---------|---|--|--------------|--|--|--|---|--|--------------|
| | | | Brevard | Lake | Orange | Osceola | Seminole | Volusia | Total | | | 1 |
| | 6. | Wood or Bark a. Area b. Point | | | | | | | | | | |
| •• | 7. | Combination a. Area b. Point | | 10.9 | | | | annumentaria per se mele la composi de la composi de plano de la composi de plano de la composi de plano de la composi de plano de la composi de plano de la composi de plano de la composi de plano de la composi de plano de la composi de la composi de la composi de la composi de la composita della composita de la composita de la composita della composita de la composita de la composita de la composita de la composita de la composita de la composita de la composita de la composita de la composita de la composita della composita de la composita de la composita de la composita de la composita de la composita della composita de la composita de la composita della comp | dam kirilarida (1/km) add dan 4 i 171 ddilli yyyyyy | | | |
| \$\$ ₁ | | cal Fuel | 78.19 | 38.84 | 123.86 | 8.94 | 28.12 | 60.83 | 338.78 | | | |
| 1.15 | | mbustion | | | | | · | | | | | T |
| Ç, II. | . Power F | | | | | - | | | | | | |
| <u>.</u> | C. Res | stillate Oil sidual Oil | | | 0.39 | | | | * | | | |
| | | ural Gas | | | j . | 0.71 | | 321.0 | | | · | |
| | | bination al Power Plants | 750.02 | | 9.73 10.12 | 8.71 8.71 | | 321.0 | 1089.83 | | | + |
| ***** | | Enissions | 750.02 | | 10.12 | 8./1 | | 321.U | 1003.03 | | | _ |
| 111. | A. Che B. Foo | emical od and Agriculture | . 272.0 | 946.5 | 1432.3 | 2.5 | 154.5 | 87.5 | | | | |
| C-117 | D. Min E. Woo | eral ' | 212.9 | , | 322.46 | | | 107.77 | | | | |
| 7 | G. Pet | rochemical Operations | | | 1717 - 1707 , 171, 101, 101, 101, 101, 101, 10 | | | | | | | L |
| | | al Process Emissions | 212.9 | 946.5 | 1754.76 | 2.5 | 154.5 | 195.27 | 3266.43 | | | |
| IV. | - A. Inc | aste Disposal ineration | | | | | , | · | , | | | |
| # -1 | | Area | 30.6 | 5.14 | 20.53 | 3.26 | 7.8 | 20,66 | 598.99 | | 1 | 1 |
| No. | | Point | | Municipal Control | 511.0 | ig an gar | | | j 24 M | | . ! | |
| . ' | | n Burning Area | | | | 4 11 8 1 | | | 1981 41 | | 1 | |
| | | Point | | | 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | | | 1 - | 4.5 | - | | 1 |
| | | al Solid Waste Disposal | 30.6 | 5.14 | 531.53 | 3.26 | 7.8 | 20.66 | 598.99 | | † | 1 |
| ٧. | Transpo | ortation | | | | | | | | | + | |
| . • | A. Mot | or Vehicles | | | | | | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 | | | | |
| | 1. | Gasoline | 397.9 | 144.4 | 693.0 | 80.9 | 133.4 | 322.9 | | | | 1 |
| | B. Off | Diesel -Highway Usage | 63.34 | 22.97 | 110.3 | 12.87 | 21.22 | 51.4 | agraph of | | | |
| | C. Air | | 353.1 | | 260.0 | ļ | | | | ٠. | j | 1 |
| | .E. Ves | lroads sels | | 0.6 | 2.8 | | 31.2 | | | | | |
| | F. Gas | oline Handling | | and property in the street of the second second second second | | | and the second s | | ! | | | <u></u> |
| | G. Tot | al Transportation | 814.34 | 167.97 | 1066,1 | 93.77 | 185.82 | 374.3 | 2702.0 | | - | |

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| 2 |

| POE | LUTANT: Particulate | REGION: | Central | | | , | namen and a second second second second second second second second second second second second second second | Constitution Constitution by the special desired | والمراوع والمناطقة والراوية والمناطقة والمراوع والمناطقة | والمناطقة والمناطقة المنطقة المنطقة والمناطة والمناطقة والمناطقة والمناطقة والمناطقة والمناطقة والمناطقة و | والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة والمراقبة |
|-----|---|-------------------|------------------|--------------------|------------------|------------------|---|--|--|--|--|
| VI | Miscellaneous Area Sources | Brevard_ | Lake | Orange | Osceola | -Seminole | -Volusia | Total | miligijas promitinis, tiegaaminos (v.). Lei printis (printis (printis (printis (printis))) | n dara mesanasang Menadokalik dan milihiga dib | the contract of the contract o |
| | A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning | 365.1 344.6 | 412.13 506.14 | 339.0 319.97 | 482.5 455.3 | 164.3 110.75 | 308.13 1586.4 | | | - | |
| | C. Grove Protection | 171 | 358 | 358 | 386 | 2 | 627 | _ | ٠. | | |
| | D. Total Miscellaneous | 880.7 | 1276.21 | 1016.97 | 1319.8 | 217.05 | 2521.53 | 7232 26 | | | |
| JII | Grand Total | 2766.75 | 2434.66 | 4503_34 | 1436.98 | 593.29 | 3493.59 | 15228.0 | | | |
| | A. Area B. Point | 1803.83 962.92 | | 2275.88 2227.46 | 1425.77 11.21 | 438779 154.50 | 2977.32 516.27 | 10409.75 | and summer share the comment of the summer summer. | | |

| POI | LUTANT: SO2 | R | EGION: C | entral | nga njaris, pokungan ni ni nigiri nagangganga ya - u nigir | An a proper gas management makes in some company of the | | The state of the s | nga manana merengan makan seraman | | - |
|-------|--|---------|---|----------|--|--|--|--|-----------------------------------|---|----------|
| Τ. | Fuel Combustion | Brevard | Lake | Orange | Osceola | Seminole | Volusia | | | and the of the section depositions with a | |
| ** | A. Residential and Institutional Fuel 1. Coal or Coke a. Area b. Point | | | | | | | | | | |
| | Distillate Oil a. Area b. Point Residual Oil | 40.71 | 14.79 | 64.92 | 4.66 | 14.59 | 31.84 | | | | |
| | a. Area b. Point 4. Natural Gas* | 116.9 | 35.23 | 1.75 | 12.84 | 42.54 | 86.15 | | | | |
| | a. Area b. Point 5. Combination a. Area | 0.36 | 0.11 | 0.55 | 0.04 | 0.13 | 0.27 | | | , | |
| | b. Point B. Commercial l. Distillate Oil | | | | | | | | | | |
| Q | a. Area b. Point 2. Residual Oil a. Area | 2.9 | 1.28 | 4.98 | 0.35 | 1.02 | 2.44 | | | | |
| C-119 | b. Point C. Industrial Fuel l. Coal or Coke a. Area | | | | | | | · | | | |
| New | b. Point 2. Distillate Oil a. Area b. Point | | | | | | | | | • • , | |
| | Residual Oil a. Area b. Point | | | | | * * | · | | | · | |
| | 4. Natural Gasa. Areab. Point5. Process Gasa. Area | | | | | | | | | | |
| • | b. Point | 1 | · · · · restricted maple. Africantism by a con- | <u> </u> | | to the second se | Parker and the second s | | <u> </u> | | <u> </u> |

^{*} Includes Commorpial Uses

| | • | | | | | | | | | |
|-------------------------------------|--|---------|---------------|--------------|---------------|--|--------------|----------|--|--------------|
| TO CATE OF THE PROPERTY AND A STORY | nere et de la compartición de la compartición de la compartición de la compartición de la compartición de la c La compartición de la compartición de la compartición de la compartición de la compartición de la compartición | | | | | | | | | |
| POLLUTANT: | 50 ₂ | Brevard | Central | | T | | 1 | T | | T |
| 6. | Wood or Bark | Brevard | Lake | Orange | Oscenia | Seminole | Volusia | Total | r Engagement and Control of the Cont | 1 |
| | a. Area | | | | 1 | | | | | |
| <u>.</u> | b. Point | | | | | | | | | |
| /• | Combination a. Area | | | | | agent of the control | | | | |
| | b. Point | | 84.4 | | 1 | | | | | |
| D. To | tal Fuel | 160.87 | 135.81 | 72.2 | 17.89 | 58.28 | 120.7 | 565.75 | | |
| | mbustion | | | | | <u> </u> | | | *************************************** | |
| II. Power | | | | | } | | | | | |
| A. Co | al stillate Oil | | ! | 1.12 | | | 1 | | | 1 |
| | sidual Oil | | | 1.12 | | | | | | 1 |
| | tural Gas | | | | | | | | | |
| E. Co | mbination | 28235.8 | | 390.45 | 14.8 | 6205.6 | | | | |
| | tal Power Plants | 28235.8 | | 391.65 | 14.8 | 6205.6 | | 34847.85 | | |
| | s Emissions | | | | | | | | | |
| | emical od and Agriculture |) | 27.5 | | 29.8 | | } | | | |
| | tallurgical | ļ | | | 29.6 | | | 1 | | |
| D. Mi | neral | 229.5 | | | | 187.5 | | | | , |
| O E. Wo | od | | | | | | | | | |
| C F. Wo | troleum Storage | 1 | | | | 1 | | | | |
| S G. Pe | trochemical Operations tal Process Emissions | 229.5 | 27.5 | | 29.8 | 187.5 | | 474.3 | | |
| | Waste Disposal | | | | 43.0 | + +0/.3 | | 4/4.3 | - | |
| | cineration | | | | | - | | | |] |
| | Area | 5.1 | 0.85 | 3.4 | 0.54 | 1.3 | 3.44 | 69.38 | + | |
| | Point | | | 54.75 | | The state of the s | 1 | | | |
| | en Burning Area | | * - | | | | 1 | | | |
| | Point | | | | | | | | | |
| C. To | tal Solid Waste Disposal | 5.1 | 0.85 | 58.15 | 0.54 | 1.3 | 3.44 | 69.38 | | |
| V. Transp | | | | | | | | | | |
| | tor Vehicles Gasoline | 198.9 | 70.0 | 346 5 | 1 | | 1. | | | |
| | Gasoline Diesel | 198.9 | 72.2 43.99 | 346.5 211.23 | 40.4 24.65 | 66.7 | 161.4 |] | | |
| | f-Highway Usage | | 43.22 | 211.23 | 24.05 | 40.04 | 70.42 | | | |
| C. Ai | rcraft | 250.23 | | 50.74 | | | • | | , | |
| | ilroads | | 1.6 | 7.3 | | 81.0 | | | | • |
| E. Ve | | | • | | | 1 | · Marian | | | |
| F. Ga | soline Handling | | | | | - | | | | |
| | tal Transportation | 570.42 | 117.79 | 615.77 | 65.05 | 188.34 | 259.82 | 1817.19 | and the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the | - |

POTEUTANT: SO2

/I Miscellaneous Area Sources ...

A. Forest Fires

B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection

D. Total Miscellaneous

A. Area

B. Point

| | PEGION: | Central | - | | | | | | |
|---|----------|---------|---------|---------|----------|---------|----------|---|------|
| | Brevard | Lake | Orange | Osceola | Semino1e | Volusia | Total_ | - | |
| | | | | | | | | | |
| 1 | | | | | | | | | |
| | | | | | | | | | |
| | 83 | 174 | 174 | 187 | 1 | 30.4 | | | |
| - | 83 | 174 | 174 | 187 | 7 | 30.4 | 923 | | |
| | 29284.69 | 455.95 | 1311.77 | 315.08 | 6642.02 | 687.96 | 38697.47 | | |
| | 819.39 | 344.05 | 865.37 | 270.48 | 248.92 | 687.96 | 3236.17 | | |
| | 28465.30 | 111.90 | 446.40 | 44.60 | 6393.10 | 0.00 | 35461.30 | | 1 |

POLLUTANT: Carbon Monoxide REGION: Central Florida

| | spermar Calpon Monoxide | American and an experience of the second sec | | | and the second s | and the second and th |
|-----|----------------------------------|--|--|--|--|--|
| _ | Puel Cambuckian | Brevard | Lake | Orange | Osceola | Seminole |
| I. | | | | | | |
| | A. Residential and | | | | | |
| | Institutional Fuel | | | | | |
| | Coal or Coke | 1 | | | | |
| | a. Area | 1 | | | 1 | |
| | b. Point | | | | | |
| | 2. Distillate Oil · | . 1. | | | | |
| | a. Area | 28.27 | 10.28 | 45.06 | 2.25 | 10.15 |
| | b. Point | | | | 3.23 | 10.13 |
| | 3. Residual Oil | | | | 1 | |
| | a. Area | 2.03 | 0.6 | 3.04 | 0.22 | 0.74 |
| | b. Point | 2.03 | 0.0 | 3.04 | 0.22 | 0.74 |
| | 4. Natural Gas* | | | | | |
| | a. Area | 12.76 | 3 66 | 10.10 | | |
| | b. Point | 12.16 | 3.66 | 18.19 | 1.34 | 4.42 |
| | | | | | 1 | |
| | 5. Combination | | j | | | |
| | a. Area | | | | | |
| | b. Point | | } | | | |
| | B. Commercial | | | | | |
| | 1. Distillate Cil | | | | | |
| | a. Area | 0.08 | 0.04 | 0.14 | 0.01 | 0.03 |
| | b. Point | 1 | | 1 | | |
| | 2. Residual Oil | 1 | | | | |
| Ğ. | a. Area | | | | | |
| | b. Point | | | | | |
| 12 | C. Industrial Fuel | 1 | | | | · |
| Ñ | 1. Coal or Coke | | | | | |
| | a. Area | | | | | |
| | b. Point | 1 | | | 1 | |
| | 2. Distillate Oil | | | | | |
| | a. Area | | | | | |
| | b. Point | | | | | |
| 34. | | | | - | | |
| | 3. Residual Oil | | | | - | |
| | a. Area | | | | | |
| | b. Point | | | | | |
| | 4. Natural Gas | | | | | |
| • | a. Area | | | | | |
| | b. Point | | : | | | |
| | Process Gas | | : | | | |
| | a. Area | | | | * | |
| | b. Point | | • | | , | |
| | For B in the total time | Annual Principal Control of Contr | والمحاج بمنصصصة حنشت الحابج بصيحيهم بالاراجاء الأبراء الأاراب المارية الجاري | pulse in a control of the later of confidences and a fine of confidences and a confidence of the confi | the second of th | A CONTRACTOR OF THE STATE OF TH |

^{*} Included Commorcial Uses

| POI | LUTANT: Carbon Monoxide | - | REGION: Cer | itral Flor | lda | | | 1 | the second second second | · a new American despendent extraories of | |
|--------------|--|--|--|------------|--------------|----------------------------------|--|--|--------------------------|---|---|
| I. | Fuel Combustion | Volusia | Towns of the second | | ļ | | | | | in the second property and the second | come material and separate man |
| | A. Residential and | | | S. | | | 4 | | | | |
| | Institutional Fuel | | l se se | į | | | | philings. | | | |
| | Coal or Coke Area | | | | | | | | | | |
| | b. Point | | | | ţ | | | | | , | |
| | 2. Distillate Oil | | | | • | | | a proposition | | | |
| | a. Area | 22.11 | 1 | | į | | | | | | |
| | b. Point | | 1 | | | | | | | | 1.373 |
| | 3. Residual Oil | | | | | | | | _ | | |
| | a. Area | 1.5 | | - | | | | İ | | | -0 p |
| | b. Point 4. Natural Gas* | | | | | | • | | | | |
| | a. Area | 8.96 | | | | | | | | | |
| | b. Point | 1 | | | | | Í | | | | |
| ** | 5. Combination | | 1 | | | | displaced. | A STATE OF THE STA | e . | , | |
| | a. Area | 1 | | | | | | | | | |
| | b. Point | | | | | | } | | | : | |
| | B. Commercial | | | | | | | | | | |
| | 1. Distillate Oil | | | | | | | | | | |
| | a. Area | 0.07 | | | | | | | | | |
| | b. Point 2. Residual Oil | | | | | | | | | | |
| Ġ. | a. Area | į | | | 1 | | Ī | | | | |
| <u> </u> | b. Point | | | | Í | | į | | | | |
| 123 | C. Industrial Fuel | | | | | | | | | | |
| w | 1. Coal or Coke | | | | | | | | | | |
| | a. Area | | | | | | | | | | |
| | b. Point | | ∮ 0.00 € 0.00 | | | | | | | | |
| 1 | 2. Distillate Oil | | | | | | ļ. | | | | |
| | a. Area (1986) b. Point | | | | | | | | ' | | |
| | 3. Residual Oil | | | - | ļ: | | | | - | | |
| | a. Area | | | - | | | | | | • | |
| | b. Point | and the same of th | | : | | | | | . 1 | | |
| | 4. Natural Gas | | Emany production | | 1755, \$ 7.5 | | គ្នាស់ប្រទំប | | A 15 T T | | |
| • | gren e j ak – Arēa ns in Ross | F 77 1 | 1.47 (0.1 | Col., La | ំ នេះកំឡេច។ | | | 1 | | | |
| | b. Point | | | | | | | Í | | | |
| | 5. Process Gas | | | | 1 | | - | • | | | |
| | a. Area | | | | : | | · Property of the control of the con | | | | |
| | b. Point | 1 | i | 1 | | I make an amount of the contract | | | | | of the graphical states with the desirability and the |

^{*} Trologes Commongais! Uses

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|--|--|-------------|-----------|--|--|
| . * | | | • | | |
| POLLUTANT: Carbon Monoxide | man of the first state of the s | ral Florida | | . marini in the second process and the second | and the second s |
| 6. Wood or Bark | Brevard | Lake | Orange | Osceola | Seminole - |
| a. Area | | | | | |
| b. Point | | | | | |
| 7. Combination | | 0.15 | | | |
| a. Area b. Point | | 0.15 | | | |
| D. Total Fuel | 42.54 | 14.73 | 66.43 | 3.82 | 15.34 |
| Combustion | | | - | | |
| II. Power Plants A. Coal | | | | | |
| B. Distillate Oil | | | | | |
| C. Residual Oil | | | · | | |
| D. Natural Gas | | | | | |
| E. Combination F. Total Power Plants | 8.14 | | 1.0 | | |
| III. Process Emissions | 0.14 | | 1.0 | | |
| A. Chemical | | | | | |
| B. Food and Agriculture | | 0.27 | | | |
| <pre>C. Metallurgical D. Mineral</pre> | | | | | |
| E. Wood | | | | | |
| F. Petroleum Storage | | | | | |
| G. Petrochemical Operations H. Total Process Emissions | | | | | |
| H. Total Process Emissions IV. Solid Waste Disposal | | 0.27 | | | |
| A. Incineration | | | t | | |
| 1. Area | 42.5 | 7.15 | 28.5 | 4.53 | 10.83 |
| 2. Point B. Open Burning | | | 36.5 | | |
| 1. Area | | | • | | |
| 2. Point | | | | | , ., . |
| C. Total Solid Waste Disposa | 42.5 | 7.15 | 65.0 | 4.53 | 10.83 |
| V. Transportation A. Motor Vehicles | | | | | |
| 1. Gasoline | 130199.4 | 29833.7 | 226778.1 | 16708.3 | 27572.1 |
| 2. Diesel | 846.34 | 307.0 | 1473.9 | 172.0 | 283.6 |
| B. Off-Highway Usage C. Aircraft | 3144.6 | | 902.4 | | |
| D. Railroads | 3144.0 | 1.7 | 902.4 | | 07.0 |
| E. Vessels | | 1., | /.9 | | 87.2 |
| F. Gasoline Handling | | | | | |
| G. Total Transportation | 134190.34 | 30142.4 | 229162 .3 | 16880.3 | 27942.9 |
| | * | | | | |

| | | | | | • | • | | | | | |
|--------|--|-------------------|------------------|---|--------------|--------------------------------------|--|--------------|---|--|---------|
| | POLLUTANT: Carbon Monoxide | | Central | Florida | | | | | | agramme an agent of the second national second | |
| | 6. Wood or Bark | Volusia | TOTALS | ! | | + | | | | | |
| | a. Area | | | | | | | | | | |
| | b. Point7. Combination | 1 | | | | | | | | | |
| | a. Area | | ** | | | | | | | | |
| | b. Point | | | | | | | | | | |
| | D. Total Fuel Combustion | 32.64 | <u> 175.50 ·</u> | | | ļ · | | | | - | 4- |
| | II. Power Plants | | | | | | | | | | 1 |
| | A. Coal | | | | - | - | | | | | |
| | B. Distillate OilC. Residual Oil | | | | } | | 1 | | | | |
| | D. Natural Gas | | | | | 4 | | | 1 | | |
| | E. Combination | 3,65 | | | ļ | | | | | ļ | |
| | F. Total Power Plants III. Process Emissions | 3.65 | 12.79 | | | | | | - | | + |
| * * | A. Chemical | | | | | | | | | | 1 |
| , | B. Food and Agriculture | 1. | | | | | | | | | |
| .* | C. Metallurgical D. Mineral | 1 . 0 . 5 | | | | 1 | | | | 1 | |
| 3 | E. Wood | 0.16 | | | | | | | | 1 | |
| C=1 25 | F. Petroleum Storage | | | | | | 1 | | | | |
| Л | G. Petrochemical OperationsH. Total Process Emissions | 0.16 | 0.43 | | | | | <u> </u> | | | 1 |
| | IV. Solid Waste Disposal | | 0,43 | | | - | | | 1 | | 1 |
| | A. Incineration | • | | | | | | | | | |
| | 1. Area 2. Point | 28.7 | | | | | | | | 1 | 1 |
| | B. Open Burning | | | | | | | | | 1 | 1 |
| | 1. Area | | | - | Ì | | | | | | |
| | Point Total Solid Waste Disposa | 28,7 | 158.71 | *************************************** | | a se gare province a complex garage. | | | | | Ì |
| | V. Transportation | 33.7 | 120.71 | | | | <u> </u> | | | | 1 |
| | A. Motor Vehicles 1. Gasoline | 205652 5 | | | 1 | | | | | | |
| | 2. Diesel | 105672.5 686.8 | | | | | | | | | |
| * | B. Off-Highway Usage | .A | 2 | 1.3 | | | | <u>.</u> | | | |
| | C. Aircraft D. Railroads | | | | | | | | | | 5 |
| | E. Vessels | | | | | | | | | ŀ | |
| | F. Gasoline Handling G. Total Transportation | | | | | | <u> </u> | | | 1 i | |
| | G. Total Transportation | 106359.3 | 544677.54 | | | | 1 | | | - | <u></u> |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | * . | | | |

| VI | LUTANT: Carbon Monoxide Miscellaneous Area Sources | REGION: Central Brevard | Lake | Orange | Osceola | Seminole |
|-----|---|-------------------------|--------------------|---------------------------------|------------------|----------------|
| ** | A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning | | 1333.4 2977.3 | 1096.8 1882.2 | 1560.9 2678.5 | 379.9 651.5 |
| | C. Grove Protection | 201 | 421 | 421 | 454 4693.4 | 2.0 |
| VII | D. Total Miscellaneous Grand Total | 3409.2 137692.72 | 4731.7 34896.25 | 3400.0 | 21582.05 | 1033.4 |
| | A. Area B. Point | 137684.58 8.14 | 34895.98 | 232694.73 232657.23 37.50 | 21582.05 | 29002.47 |
| | | • | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | , |
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| POL | LUTANT: Carbon Monoxide | REGION: | Central | | | | | | | |
|-----|--|-----------|---------|-----------|---|--------------------------|---|----------------------------------|--|--|
| *** | *** | Volusia_ | | TOTALS | | | | | | a to a transfer of the section of the section of |
| VI | Miscellaneous Area Sources. A. Forest Fires | | | | | | | | | |
| | | 996.9 | | | | | | | 1 | |
| | B. Agricultural, Silvicultural | 9331.8 | | | | | | | ! | |
| | and Landclearing Burning | 736 | · | | | 1 | | | | 1 |
| | C. Grove Protection | 11064.7 | | | * | | | | A STATE OF THE PERSON NAMED IN COLUMN TO STATE OF THE PER | TO SECURE OF THE PARTY OF THE P |
| | D. Total Miscellaneous | 11004.7 | | 28332.40 | | | | | | |
| 'II | Grand Total | 117489.15 | | 573357.37 | | MARKETTAN AND THE STREET | organisarista (managapapanis, maganara kaaliskis (milita) | CONTRACTOR STANSONS TANGENTANISM | en Barrelland (Salaha S | ACTION TO PROPER VIOLENCE PROPERTY. |
| | A. Area | 117485.34 | | 73307.65 | | į | | | Í | |
| | B. Point | 3.81 | | 49.72 | | ļ | | į | - | |

and the second s

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PALUTANT: HC

REGION: Central

Brevard Lake Orange Osceola Seminole Volusia I. Fuel Combustion A. Residential and Institutional Fuel 1. Coal or Coke a. Area b. Point 2. Distillate Oil a. Area 27.06 16.94 6.19 1.95 6.11 13.25 b. Point 3. Residual Oil a. Area 1.22 0.37 1.82 0.13 0.44 0.9 b. Point 4. Natural Gas* a. Area 4.86 7.28 0.53 1.77 3.58 1.46 b. Point 5. Combination a. Area b. Point B. Commercial 1. Distillate Oil a. Area 1.21 0.54 2.08 0.15 0.42 1.02 b. Point 2. Residual Oil a. Area b. Point C. Industrial Fuel 1. Coal or Coke a. Area b. Point 2. Distillate Oil a. Area b. Point 3. Residual Oil a. Area b. Point 4. Natural Gas a. Area b. Point 5. Process Gas a. Area b. Point

^{*} Includes Commorcial Uses

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| | POI | LUTA | ANT: HC | REGION | : Central | | | | | manue : | | |
|-------|-------------|------------|--|---|-----------|------------------|---------|--|---|--------------|-------------|--|
| | | | | Brevard | Lake | Orange | Osceola | Seminole | Volusia | Total | ļ | |
| | | | Wood or Bark Area | | | | * . | | | | ĺ | |
| | | | a. Area b. Point | | | | | | , | | 1 | ł |
| | | , | 7. Combination | | | | | | , | | į | |
| | | | a. Area | | 11.07 | - | | | · [| 1 | | |
| | • | - | b. Point | 34 33 | 10 63 | 122.24 | + | + | | | | + |
| | | υ. | Total Fuel Combustion | 24.23 | 19.63 | 38.24 | 2.76 | 8.74 | 18.75 | 112.45 | | |
| | II. | . Pow | ver Plants | | 1 | | 1 | | , | 1 | ĺ | <u> </u> : |
| | | Α. | Coal | | 1 | | | | ' | 1 | i | ľ |
| | | | | i ' | 1 | | | | , | | ł | 1 |
| | | | Residual Oil | | 1 | | | | ' | | İ | |
| | | | Natural Gas Combination | 887.1 | 1 | 102.2 | 2.2 | | 371.91 | 1 | ĺ | |
| | | | | 887.1 | | 102.2 | 2.2 | | 371.91 | 1363.41 | | 1 |
| | III. | Proc | cess Emissions | | | | | | + | | | + |
| | | A·. | Chemical | , | | | | , | 1 ' | 1 | ĺ | |
| | | ₿. | Food and Agriculture Metallurgical | ' | 18.0 | | | | 1 | 1 | I | - |
| | | | Metallurgical Mineral | 2.32 | 1 | | | | 3.33 | 1 | l | |
| | | E. | Wood | , | 1 | | | | 3.33 | 1 | l | |
| ပုံ | | F. | Petroleum Storage | 1 | | | | | 1 | | I | |
| 1 | | G. | Petrochemical Operations | 2.32 | | + | | | <u> </u> | | j | + |
| N | TV | H. | Total Process Emissions id Waste Disposal | 2.34 | 18.0 | | + | | 3.33 | 23.65 | | |
| ~ | T A * | A. | Incineration | 1 | | | | | ' | 1 | i | |
| • | | | 1. Area | 19.73 | 3.3 | 13.23 | 2.1 | 5.0 | 13.3 | 111.41 | i | İ |
| | • | - . | 2. Point | , | | 54.75 | | | 1 | 1 | i | |
| | | | Open Burning 1. Area | , | | | | , | ' | 1 | i | |
| | ing- | | 1. Area 2. Point | , | 1. | | | , | , | | j e | |
| | | c. | Total Solid Waste Disposal | 19.73 | 3.3 | 67.98 | 2.1 | 5.0 | 13.3 | 111.41 | ······ | |
| | V | Tran | nsportation | - 4 | | | | | , | | | |
| | | Α. | MOCOL Venicies | 21285.5 | . "" | 1 (1) | 2224 2 | F004 3 | | 1 | l | and the same of th |
| | | | 1. Gasoline 2. Diesel | 164.4 | 5739.3 | 37074.5 286.3 | 3214.3 | 5304.2 55.1 | 17275.7 | 1 | Ĺ | |
| | | В. | Off-Highway Usage | 101.1 | 1 | 200.5 | 33.7 | 35.1 | 133.4 | 1 | İ | |
| | | . C. | Aircraft | 827.0 | 1 | 637.6 | | 1 | , | 1. | · · | |
| | | | Railroads | · • • • • • • • • • • • • • • • • • • • | 1.2 | 5.6 | | 62.3 | |] | ĺ | 1 |
| • | | | Vessels | | | | | | | 1 | | |
| | | F. G. | | 1044.4 23321.3 6 | | 1819.1 | 212.3 | 350.3 | 18256.7 | 25 032 7 | | · · · · · · · · · · · · · · · · · · · |
| | * | G. | Total Transportation . | £3321.3 0 | 179.1 | 39823.1 | 3460.0 | 5771.9 | 18250./ | 96,814.1 | | |
| | | | | • | | | | | | | | |

POR BUTANT: REGION: Central HC Brevard Os ceola Lake Seminole Volusia Orange Total. /I Miscellaneous Area Sources A. Forest Fires 290.9 . 257.7 239.3 340.6 82.9 217.5 B. Agricultural, Silvicultural 130.3 405.4 595.46 376.4 535.7 1866.36 and Landelearing Burning 102 102 110 C. Grove Protection 178 D. Total Miscellaneous 988.36 717.7 986.3 213.2 2261.86 711.1 II Grand Total 7208.39 40749.22 7179.32 40592.27 29.07 156.95 4453.36 4451.16 2.20 5998.84 20925.85 104301.44 5998.84 20550.61 102849.56 0.00 375.24 1452.88 24965.78 .24076.36 889.42 A. Area

B. Point

| | | | • | EMI | ISSION INV | ENTORY SUM | TARY (BY CO | UNTY) | | | | |
|-------------|----------|--|-----------------------------|-----------|------------|------------|-------------|-------------------------------|--------------|---|-----|-----|
| Por | LUTANI. | S: NOX STATE OF THE STATE OF TH | R | EGION: Ce | ntral | | | * | | - | | |
| τ. | Fuel | Combustion | Brevard | Lake | Orange | Osceola | Seminole | Volusia | | an angangan pipus a masan ang masa manan masa | L | |
| | A. P | Residential and | • | 2.77 | , | | i i | | ٠ | | (| |
| | | Institutional Fuel | | | | | , | | | | | |
| | 1 | Coal or Coke a. Area | . 3 | | 2.4 | | | | | ! | . ! | |
| | | b. Point | ** | | | | | | | | | |
| | 2 | 2. Distillate Oil | | | 1 | | | | | | . ! | 1 |
| | - | a. Area | 67.88 | 24.65 | 108.16 | 7.8 | 24.34 | 53.1 | | | | |
| | 9 | b. Point B. Residual Oil | | | | | | | | | 1 | |
| | - | a. Area | 4.87 | 1.47 | 7.3 | 0.54 | 1.77 | 3.6 | | | | , |
| | | b. Point | | | | | | | : | | | |
| | 4 | . Natural Gas* a. Area | 22.42 | 10.07 | 50.00 | 2.67 | 70.76 | 24.62 | 50 L | | į | |
| | • | b. Point | 33.43 | 10.07 | 50.03 | 3.67 | 12.16 | 24.63 | | | | |
| | . 5 | . Combination | | | | | | | | | , , | |
| | | a. Areab. Point | | | | | | | ** * * | | | |
| | В. С | Commercial | 1 | | | 1 | | | | • | | |
| | 1 | . Distillate Oil | | | | | | , | | | | |
| | • | a. Area | 24.16 | 0.7 | 41.54 | 2.93 | 8.50 | 20.34 | ***; | | i l | |
| | 2 | b. Point L. Residual Oil | | | | | | | : | | 1 | |
| Ω | 4 | a. Area | | | | | | | | | i | |
| 1 | | b. Point | | | | | | | | | j . | |
| L W H | | industrial Fuel | | | 1 | 1.5 | | | | | | |
| 1 | , 1 | . Coal or Coke a. Area | | | | | | | | | | |
| | | b. Point | | | | | | | | | • • | |
| | . 2 | . Distillate Oil | | | | | | | | ' | | ` . |
| | 200 | a. Area b. Point | | | | | | | | | į | |
| | · 3 | Residual Oil | | | - | | | | | | . ! | |
| | | a. Area | | E . | | | | 1914 | - | | | |
| | À | b. Point Natural Gas | | | | | | 1 1 | | _ | | |
| | 4 | a. Area | | | | | | | | | | |
| | | b. Point | | · | 1 | | | | | | . ! | |
| | 5 | . Process Gas | | | | 1 | [| | | | | |
| • | . | a. Area | Steelings Line Steelings | | | 1 1 | | | . | | | |
| | | h. Point | 1 | | 1 | | 3 | Printed to the control of the | | 1 | , | • |

^{*} Includes Commercial Uses

| | | | | : Central | | | | | | | | |
|-----|-----|-------------------------------|----------|-----------|----------|---------|--------------------------------------|----------|----------|--|--------------|-----|
| | | LUTANT: NO | Brevard | Lake | Orange | Osceola | Seminole | Volusia | Total | | | j- |
| | | 6. Wood or Bark | | 1 | | | Andrews and the second of the second | | | - Andrew Committee and area was a | | 1 |
| | | a. Area | į. | | | 5 | 1 | 1 | | • | | |
| | | b. Point | | | | | 1 | | | - v. | \ | ĺ |
| | | 7. Combination | | | | İ | | | | | 1 | 1 |
| | | a. Area . | | ĺ | - | | | | | | | |
| | | b. Point | | | | | | | | | | |
| • | • | D. Total Fuel | 130.34 | 36.89 | 207.03 | 14.94 | 46.77 | 101.67 | 537.64 | | | 1 |
| | | Combustion | | | | | | | | | | - |
| | II. | Power Plants · | } | l | } | 1 | l | | | | | |
| | | A. Coal | | | | | | | | | } | |
| | | B. Distillate Oil | | | } | | | 51.35 | | | | 1 |
| | | C. Residual Oil | | . | | | | | 1 | | j | - |
| | | D. Natural Gas | 10000 | | | | | | 1. | | 1 | } |
| | | E. Combination | 12932.4 | | 1137.0 | 23716.8 | | 4710.3 | | * ************************************ | | |
| | | F. Total Power Plants | 2932.4 | | 1137.0 | 23716.8 | | 4761.65 | 42547.85 | | 1 | • |
| I. | II. | Process Emissions | | | 1 | | | | | | - | |
| | | A Chemical | | | | | | | . " | | | ì |
| | | B. Food and Agriculture | - | 129.81 | 65.3 | 6.0 | | - | 1 . 1 | | | Ì |
| | | C. Metallurgical , | l' | | | | 1 | | | | | |
| | | D. Mineral | 46.5 | 1 | | | • | 66.57 | 1 | | ! | |
| | | E. Wood | | i . | | | | [| 1 | | İ | } |
| a | | F. Petroleum Storage | | | | | | | 1 | | | ļ |
| င္ | | G. Petrochemical Operations | | | | | | <u> </u> | | | | |
| 132 | | H. Total Process Emissions | 46.5 | 129.81 | 65.3 | 6.0 | | 66.57 | 314.18 | | | 1 |
| N I | | Solid Waste Disposal | | | · | | | | 1 | | | |
| | | A. Incineration | 0.55 | | | | | | | | | İ |
| | | 1. Area | 9.35 | 1.6 | 6.3 | 1.0 | 2.38 | 6.3 | 99.93 | | | i |
| | • | 2. Point | | | 73.0 | | | | | • | | İ |
| | | B. Open Burning | | | | | | | | | | ĺ |
| á | č. | 1. Area | | | | | | | | | | 1 |
| | | 2. Point | | | | | | | | | | ļ., |
| | | C. Total Solid Waste Disposa: | 9.35 | 1.6 | 79.3 | 1.0 | 2.38 | 6.3 | 99.93 | | | |
| 7 | | Transportation | | | | | | | • | | | |
| | | A. Motor Vehicles | 1 | | | | | | | | | Ì |
| | | 1. Gasoline | 12333.6 | 5215.9 | 21482.4 | 2921.2 | 4820.5 | 10010.2 | | • | | |
| | | 2. Diesel | 960.9 | 348.5 | 1673.4 | 195.3 | 322.0 | 779.7 | | | | |
| | | B. Off-Highway Usage | 1: | 1 | | | | | | I | 1. | ŀ |
| | | C. Aircraft | 192.04 | | 120.76 | İ | | | | • | 1*** | |
| ٠ | ٠. | D. Railroads | | 1.8 | 8.4 | | 93.5 | 1 | | | ! | 1 |
| | | " Vessels | | | | | | | | | 1 | Ī |
| | | Gasoline Handling | | | | | | 1 | | | i | 1 |
| | * | G. Total Transportation | 13486.54 | 5566.2 | 23284.96 | 3116.5 | 5236.0 | 10789.9 | 61480.1 | • | | i |

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|---|---|---|
| 1 | į | |
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| L | 4 | þ |
| | | ٠ |

| - | APART NO. | REGION: | Central , | | | | | | | |
|-----|---|----------------------|-------------------|---------------------|---------------------|--------------|---------------------|----------|-------|------|
| | X | Brevard | Lake | Orange | _Osceola | Seminole | Volusia | Total | . 40* | |
| 73. | Miscellaneous Area Sources | | | | | | | | | |
| | A. Forest FiresB. Agricultural, Silvicultural and Landclearing Burning | 43.0 40.5 | 48.5 59.5 | 39.9 37.6 | 56.8 53.6 | 19.3 13.0 | 36.3 186.6 | | | |
| | C. Grove Protection | 34 | 72 | 72 | 7.7 | 1 | 125 | | | |
| | D. Total Miscellaneous | 117.5 | 180.0 | 149.5 | 187.4 | 32.3 | 347.9 | 1014 6 | | |
| LI | Grand Total | 26722.63 | 5914.5 | 24923 09 | 27042.64 | 5317.45 | 16073.99 | 105994.3 | | |
| | A. Area . B. Point . | 13743.73 12978.90 | 5784.69 129.81 | 23647.79 1275.30 | 3319.84 23722.80 | | 11247.77 4828.22 | | | |
| | , | | | | | | | | | |

EMISSION INVENTORY SUMMARY
Southeast Florida Intrastate AQCR

PULLUTANT: Particulate REGION: Southeast

| #1. L | LUTANT: | Particulate | 414 | GIUN: SC | outheast | | | | | | | 7 | 1 |
|-------|---------|------------------------------------|---------|--|-----------------|--------|--------|------------|--|-----------|---|-----|-----|
| I. | Fuel C | ombustion | Broward | Dade | Indian River | Martin | Monroe | Okeechobee | Palm Beach | St. Lucie | | | _ |
| | A. Re | sidential and | | | | | | | | | | | 1 |
| | | stitutional Fuel | | · | | | · | | | | | | |
| | 1. | Coal or Coke a. Area | ł . Ł | | | | å. | [| | - | | 1 | - |
| | | b. Point | | | | | | | | | | | |
| | 2. | Distillate Oil | | | · | | | 1 | | | | | |
| | | a. Area | 28.84 | 58.79 | 2.18 | 1.47 | 2.09 | 0.64 | 15.29 | 2.6 | | | |
| | | b. Point | | | *** | | | | | | | | 1 |
| | 3. | | | 6 30 | 0.37 | 0.10 | 0.25 | 0.05 | 1.7 | 0.25 | | | |
| | | a. Area b. Point | 3.0 | 6.12 | 0.17 | 0.13 | 0.25 | 0.03 | 1./ | 0.23 | | | |
| | 4. | | 1. | | _ | | | | | | | | |
| | | a. Area | 22.25 | 45.49 | 1.29 | 1.01 | 1.89 | 0.40 | 12.51 | 1.82 | | | - |
| | * | b. Point | | · | | | | | | | | | |
| | 5. | Combination | | | | | | | | | | | |
| | | a. Area b. Point | | | | | |] | | | | ļ. | |
| | B. Co | mmercial | | · | | | | | | | | 1 | |
| | | Distillate Oil | 1 | | | | | | | | | | |
| | | a. Area | 15.94 | 32.13 | 2.43 | 1.22 | 0.27 | 0.7 | 6.17 | 2.06 | | 1 | |
| | _ | b. Point | | | . 1 | | | | | | | | |
| | 2. | | | | | | | | Ì | | | | |
| ဂ္ | | a. Area b. Point | | , | | | | 1. | i de la companya de l | | | | |
| 1 | C. In | dustrial Fuel | | | | | ķ.* | | | | | | |
| (h | 1. | Coal or Coke | | | | | 8.1- | | | ļ | | , , | |
| • | ٠. | a. Area | | | | | | 1 | | | | | |
| | | <pre>b. Point Distillate Oil</pre> | | | | | | | | | | | - |
| | 2. | a. Area | | 6.18 | | | • | | | | | | |
| | | b. Point | | 0.10 | | - | 5 · · | ' | | 49000 | | | |
| | 章 3. | | | | | | Ψ, , | | | | | | |
| | | a. Area | | 18.7 | | | | | | | • | | |
| | А | b. Point Natural Gas | | | | | | | ĺ | - } | | | İ |
| | 4. | a. Area | | | - | | | | | | | | |
| | | b. Point | | | | | | | | | , | - | - |
| | 5. | | | | | | | | | | | | . [|
| | | a. Area | | | • | *: | 7 7 | | , | | | 1 | 1 |
| | | b. Point | 1 | e and a state of the processing and the state of the stat | | | | 1 | | | | | |

^{*} Includes Commercial Uses

| 1 (7) | LLUTANT: Particulate | REGION: | | | <u> </u> | | | Dai- | · · · · · · · · · · · · · · · · · · · | |
|-------|-------------------------------|---------|---------|-------|--|---------------------------------|------------|---------|---------------------------------------|----------|
| | | Broward | Dade | River | Martin | Monroe_ | Okeechobee | Belch | St. Lucie | TOTALS |
| | 6. Wood or Bark | | l | . 1 | ŧ | | | . , | 1 | |
| | a. Area | ' | | | | | | |] [| |
| | b. Point | | | | | | | | | • |
| | 7. Combination | €4 | | | | | | | 1 | |
| | a. Area | 1 | . 1 | | | | | 7202.5 | | |
| • | b. Point | | | | | | | | | |
| | D. Total Fuel | 70.03 | 67.41 | 6.07 | 3.83 | 4.50 | 1.79 | 7238.17 | 6.73 | 7398.53 |
| | Combustion | | | | | | | | | * |
| 11. | . Power Plants | | | | j | | | | 1 | • |
| | A. Coal | | | | _ | | | | | |
| | B. Distillate Oil | | | | | 1 | | | 1 | |
| | C. Residual Oil | | 1 | | | 60.7 | | | | |
| | D. Natural Gas | 1224.5 | 040.0 | | 1 | | | 553.9 | 1. | |
| | E. Combination | | 942.8 | | | | | | h | |
| | F. Total Power Plants | 1224.5 | 942.8 | | | 60.7 | | 553.9 | | 2781.90 |
| III, | , Process Emissions | | | 1 | ÷. | | | | | |
| | A. Chemical | 9.7 | | | | | | 4.1 | 1 | |
| | B. Food and Agriculture | | 38.4 | | ; | | | | 699.5 | |
| | C. Metallurgical | | 118.98 | | | 9.69 | 1 | 2.0 | | • |
| | D. Mineral | 253.01 | 9102.23 | 1 | | | | 308.66 | 1 | |
| | E. Wood | | | | ng distriction of the second | | 1 | | 1. | |
| | F. Petroleum_Storage | | | ` | å | | | | 1 1 | |
| | G. Petrochemical Operations | 253.01 | 9259.61 | | | ~ | | | | |
| | H. Total Process Emissions | 23.UI | 9239.61 | | The property and the body of the contract of t | 9.69 | | 314.76 | 699.5 | 10536.57 |
| IV. | | | | | * 15 | • | | | | |
| | A. Incineration | } | | | | | | | | |
| | 1. Area | | 57.04 | 4.56 | 1.6 | 17.15 | 1.75 | 222.0 | 7.2 | |
| • | 2. Point | 1624.15 | 880.56 | | | | | | 1 | |
| | B. Open Burning | | | | | | | | | |
| Z., | 1. Area | 1 | | | | | | | | • |
| - | 2. Point | | - | | management of the party of the first of the second | e, and entering the same of the | | | | |
| | C. Total Solid Waste Disposal | 1624.15 | 937.60 | 4.56 | 1.6 | 17.15 | 1.75 | 222.0 | 7.2 | 2816.01 |
| V. | Transportation | 1 | | Ī | | | | | | |
| | A. Motor Vehicles | | | | | | | | | • |
| | 1. Gasoline | 1190.9 | 2093.8 | 84.7 | 64.7 | 86.8 | 27.9 | 621.4 | 135.0 | |
| | 2. Diesel | 189.6 | 333.3 | 13.47 | 10.28 | 13.8 | 4.4 | 98.9 | 21.5 | |
| | B. Off-Highway Usage | | | | | | | | | |
| | C. Aircraft | 304.18 | 1985.3 | i i | | | | 182.26 | | |
| | D. Railroads | 0.8 | 66.0 | | | ļ | | 1.2 | | |
| | E. Vessels | 4 | | , | | | | | | * |
| | F. Gascline Handling | | | | | | 1 | | | |
| | G. Total Transportation | 1685.48 | 4673.40 | 98.17 | 74.98 | 100.60 | 32.30 | 903.76 | 156.5 | 7530.19 |

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| C'LUTANT: Particulate I Miscellaneous Area Sources. A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection D. Total Miscellaneous I Grand Total A. Area B. Point | REGION: Broward 110.3 33.5 143.8 5000.97 1899.31 3101.66 | Dade 185.8 56.4 242.2 15928.02 4845.05 11082.97 | 96.8 1048.2 1145.0 1253.80 1253.80 | 106.0 1148.2 1254.20 1334.61 1334.61 0.00 | 98.7 29.9 128.60 321.24 250.85 | 1780.88 1780.88 | Palm Beach 185.8 56.4 242.20 9474.79 1403.63 8071.16 | 110.7 1198.0 1308.7 2178.63 1479.13 699.50 | 6209.74 37272.94 14247.26 | |
|--|---|---|--|--|--|--------------------|---|---|---------------------------------|---|
| | | | | | | | | | | • |
| | 1 Y | 5 | | | am, | | | • • | , | |
| • | | . 184 184 | • | | | | | | • | |

REGION: Southeast

| | • | | B3 1 | | Indian River | Martin | 36 | h) | Palm Beach | | | I I |
|----|------|---|---------|---|-----------------|--------|--------|------------|-----------------|-----------|--|------|
| I. | | Combustion | Broward | Dade | River | Martin | Monroe | Okeechobee | Beach | St. Lucie | | |
| | A. | Residential and | 1 • 1 | | | | | | | | ; | |
| | | Institutional Fuel | | | | . | É. | | | | , | |
| | | Coal or Coke | | · | | | | | | | | |
| | | a. Area | · · | | | | | | | | | |
| | | b. Point | | | 1 | | | 1 1 | | | | |
| | | Distillate Oil | | | | | | | | | | |
| | | a. Area | 20.79 | 42.34 | 1.59 | 1.06 | 1.50 | 0.47 | 11.01 | 1.9 | , | |
| | | b. Point | | | | | | | | | , | |
| | | 3. Residual Oil | | | | | | | | | | |
| | | a. Area | 86.2 | 176.2 | 5.0 | 3.9 | 7.3 | 1.56 | 48.5 | 7.06 | | 1: 1 |
| | | b. Point | | | | j | arm. | | | | , | |
| | | 4. Natural Gas* | | | - | | | | | | | |
| | | a. Area | 0.7 | 1.44 | 0.04 | 0.03 | 0.06 | 0.01 | 0.40 | 0.06 | , | |
| | | b. Point5. Combination | 1 | · | | | | | | | , 1 | |
| , | | | | | j | | | | | 1 | | · |
| | | a. Area b. Point | | , | | | • | | | | | |
| | ъ | Commercial | | | | | | | | | | |
| | D. | 1. Distillate Oil | 1 | | | | | 1 | | | | |
| | | a. Area | 7.65 | 15.42 | 1.17 | 0.59 | 0.13 | 0.34 | 2.96 | 1.0 | | |
| | | b. Point | 7.03 | T7.45 | 1.1 | 0.39 | 0.13 | 0.34 | 2.30 | 1.0 | ł | |
| | | 2. Residual Oil | | | | | | | | | | , |
| | | a. Area | | | | | | | | | · | |
| | | b. Point | 1. | | } | | | | | | , | |
| | c. | Industrial Fuel | j j | | | | | | | | | |
| * | | 1. Coal or Coke | 1 | | | | | | | | | |
| | • | a. Area | | | | | | 1 | | | | |
| | | b. Point | | | | | | | | | ! | |
| | | 2. Distillate Oil | | | · | | | | | | . ! | |
| | - | a. Area | | | | į | • | | | 47 | ! | |
| | | b. Point | | 58.5 | | į | | | | | , | |
| | 55g. | 3. Residual Oil | | | - | | | | 52 1 | | | |
| | | a. Area | | ė į . | - | . } | | | The self of the | | | |
| | +1 + | b. Point | | 541.0 | | | | | - 15 - 1 | - | , | |
| | | 4. Natural Gas | | | | · | | | | | , | |
| | | a. Area | | | | | | | | | | |
| | | b. Point | 1 | | | 1. | | | | | í | |
| | | 5. Process Gas | | | | . 1 | | | * * | j | | |
| | **** | a. Area | | | | | | | | | | |
| | 17.7 | b. Point | | and the second state of the second second | | | | 1 | | | · parkers that of the city of a supplemental beautiful or only | i |

^{*} Includes Commercial Uses

| OLLUT | Sulfur Oxides . | Broward | : Southeas | Indian | Martin | Monroe | Okeechobee | Palm | St. Lucie | TOTALS |
|------------|--|---------|-------------|--------------|--------------------|--|--------------|--|-----------|----------|
| | 6. Wood or Bark | | - 2000 | River | | | Dreedioned | Beach | St. Lucie | LUIALD |
| | a. Area | | | | | | | • | | |
| | b. Point | | |] | | | | | | |
| | Combination | | | 1 1 | | | | | | |
| | a. Area | | | 1 | | | | 2040 2 | | ĺ |
| | b. Point | | ļ | | | | | 3848.3 | | |
| D. | | 115.34 | 834.90 | 7.80 | 5.58 | 8.99 | 2.38 | 3911.17 | 10.02 | 4896.18 |
| <u>.</u> ' | Combustion | | | | | | | | | 1 |
| | ver Plants | | 1 | | | | 1 | | | : |
| | Coal | ! | | | <u></u> | | | | | |
| | Distillate Oil | | | [| | 77.40.4.0 | | | | |
| | Residual Oil | | | 1 | ! | 1404.0 | | | | |
| | Natural Gas Combination | 40394.5 | 37969.6 | 1 | | | 1 | 18565.0 | | |
| | Total Power Plants | | | | | | | | | 00777 70 |
| | cess Emissions | 40394.5 | 37969.6 | | | 1404.0 | | 18565.0 | | 98333.10 |
| | Chemical | | | 1 | | | | | j | |
| | Food and Agriculture | 17 | 6.96 | 1 | | | 1 | | | |
| C. | Metallurgical | 1. 14 | 22.71 | | • | | 1 | | | |
| | Mineral | 385.5 | 3331.58 | | | | 4220 | • | | |
| | Wood | 303.3 | 3331.36 | | | | 413.9 | • | | |
| | Petroleum Storage | | | | | | 1 | | | |
| G. | Petrochemical Operations | | | | | | ! ! | | | |
| | Total Process Emissions | 385.5 | 3361.25 | | | | 413.9 | | | 4160,65 |
| | id Waste Disposal | | 3344.23 | | | ······································ | 71127 | ************************************** | | 1100.00 |
| | Incineration | | | | | | 1 | | | 1 |
| | 1. Area | į | 52.6 | | | | 1 . 1 | 7.3 | | |
| | 2. Point | 344.13 | | | | | | 11 | | |
| в. | Open Burning | | | | | | | 5.41 | | į |
| | 1. Area | • | | | | | | | | |
| | 2. Point | | | | mention control of | | | المناوية بمست | | |
| c. | Total Solid Waste Disposal | 344.13 | 52.6 | | | | | 11 | | 407.73 |
| Tra | nsportation | | | | | | | | | - |
| Α. | Motor Vehicles | | | ľ | | | | | | |
| | 1. Gasoline | 595.5 | 1046.9 | 42.3 | 32.3 | 43.4 | 13.9 | 310.7 | 67.5 | |
| 121 | <pre>2. Diesel Off-Highway Usage</pre> | 363.1 | 638.3. | 25.8 | 19.7 | 26.4 | 8.5 | 189.4 | 41.2 | |
| | Aircraft . | | | 1 | | | i | |] | |
| | Railroads | 647.14 | 987.8 | | • | • | | 183.37 | | |
| | Vessels | 2.1 | 171.7 | | | | | 3.2 | | |
| F. | | | | | | | | | | · |
| G. | | 1607 04 | 2044 9 | | | 60 C | | | | F460 23 |
| G. | rocar transforcacton | 1607.84 | 2844.7 | 68.1 | 52.0 | 69.8 | 22.4 | 686.67 | 108.7 | 5460.21 |

Sulfur Oxides

VI Miscellaneous Area Sources.
A. Forest Fires
B. Agricultural, Silvicultural and Landclearing Burning
C. Grove Protection

D. Total Miscellaneous
/II Grand Total
A. Area

B. Point

| | REGION: | Southeast | | | | | | | | |
|---|--|-----------|--------------------|--------|---------|---------------------------|----------|-----------|----------------------|---|
| - | Broward | Dade | Ār fēth | Martin | Monroe | Okeechobee | Balen | St. Lucie | TOTALS | |
| | | | | | | | | | | |
| 1 | | | | | | | | | | |
| | 1 1 | 1 | | | | | | | | |
| | and the second s | | | | | | | | 0.00 | |
| | 42847.31 | 45063.05 | 75 :83- | 57.58 | 1482.79 | 438-68 | 23173.84 | 118.72 | 113257.87 5972,19 | |
| | 41124.13 | 41930.35 | 78:88 | 56:55 | 1484:88 | 438-68 24.78 413:90 | 760.54 | 118.72 | 5972.19 107285.68 | - |

| | O 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Indian | 1 | - | 1 | Palm | | | 1 | |
|--|---|-------|-----------------|--------|-------------|-----------------|-------------|--------|--|-----|-----|
| Fuel Combustic | | Dade | Indian River | Martin | Monroe | Okeechobe | Beach | St. Lu | ıcie | | |
| A. Residentia Institutio 1. Coal (a. A) b. Po | onal Fuel or Coke | · | | | 6 | | . ". | | | | |
| 2. Distil a. Ar b. Po | late Oil 14.4 | 29.40 | 31.11 | 0.71 | 1.05 | 0.32 | 7.65 | J | 1.31 | · · | |
| 3. Residu a. Ai b. Po 4. Natura | ea 1.5 | 3.06 | 0.09 | 0.07 | 0.13 | 0.03 | 0.84 | C |).12 | | • |
| a. And b. Po | rea 23.42 | 47.88 | 1.36 | 1.06 | 1.99 | 0.42 | 13.17 | . 3 | .92 | , | |
| a. And b. Po B. Commercial | int | | , | , | | | | | ar vijed, spilos postava | | |
| | late Oil 0.21 | 0.43 | 0.03 | 0.02 | | 0.01 | 0.08 | 0 | .03 | | e S |
| | al Oil | | | | | 17.4 | , | | ed to the second | | |
| C. Industrial 1. Coal o | Fuel coke | | | er S | | | | | | | , |
| b. Po | int late Oil | | 4 | | %÷ • | 413 <u>1</u> | | | | - | |
| b. Po3. Residu | oint lal Oil | | | | ٠, | | | | and the state of t | | |
| a. An b. Po 4. Natura | int 1 Gas | | | gradi. | ger gertage | প্ৰতিব্যৱহার হৈ | ni en la Si | | | | |
| a. An b. Po 5. Proces a. An | int | | | | | | | | ale parameter at a construction of the constru | | |

^{*} Includes Commercial Uses

| ELLUTARY: Carbon Monoxide | Broward | Southeast Dade | Indian River | Martin | Monroe | Okeechobee | Beach | St. Lucie | TOTALS |
|-------------------------------|----------|--|-----------------|-------------|--|------------|--|-----------|----------------------------------|
| 6. Wood or Bark | | | | | · · · · · · · · · · · · · · · · · · · | | | | 250,244,000 |
| a. Area | | | İ | | | | | | |
| b. Point | | | į | į | | | | | |
| 7. Combination | | | • | 1 | | 1 | | | |
| a. Area | | - 100 | | 1 | * | | | | |
| b. Point | | | | i | | 1 | | 1 | The same of the same of the same |
| D. Total Fuel | 39.53 | 80.77 | 2.59 | 1.86 | 3.1 | 7 0.78 | 21.74 | 3.38 | 153.82 |
| Combustion | | | | | A CONTRACTOR OF THE PROPERTY O | | | | |
| . Power Plants | | | ļ | ! | | 1 | | İ | • |
| A. Coal | | | - | - | | | | | |
| B. Distillate Oil | | | 1 | 3 | | | | | |
| C. Residual Oil | | | | 1 | 0.7 | | * | - | |
| D. Natural Gas | | | | į | 0.7 | | | | - |
| E: Combination | 32.32 | 9.0 | · | | | | 6.7 | . ! | |
| F. Total Power Plants | 32.32 | Anna terretaine in the second designation of | | ÷ | 0.7 | · | 6.7 | | 48.72 |
| . Frocess Emissions | | 2.0 | | | V./ | - | 9.7 | <u> </u> | 40./6 |
| A. Chemical | <u>.</u> | | 1 | | | | | | |
| B. Food and Agriculture | 24 | | 1 | 1 | | | • | | |
| | · | ! | 1 | ļ | | | | | W |
| | ` | | 1 | | 7 | | | | |
| ··· | | | | : | 4 : | 1 | | | • |
| | | | | · | | | | | |
| F. Petroleum Storage | | | 1 | | | | | 1 | |
| G. Petrochemical Operations | | [| | | | 40,000 000 | | | |
| H. Total Process Emissions | | | | | | <u> </u> | Barantan dan kana an an and barantan dan an an an an an an an an an an an an a | | 0.00 |
| Solid Waste Disposal | · | | | 1 | • | | , | | |
| A. Incineration | | | | į | P | | | | |
| 1. Area | | 196.95 | 6.33 | 2.2 | 23.8 | 2.43 | 53.54 | 10.0 | |
| 2. Point | 229.4 | | 1 | į | | | 2,7 | | |
| B. Open Burning | | | | | | | | | |
| 1. Area | | | | í | | | 965.4 | | |
| 2. Point | | | | | | | | . ! | |
| C. Total Solid Waste Disposal | 229.4 | 196.95 | 6.33 | 2.2 | 23.8 | 2.43 | 1018.94 | 10.0 | 1490.05 |
| Transportation | | 'k | | | | | | | |
| A. Motor Vehicles | | | | į | | | 1.4 | * | |
| l. Gasoline | 389732.1 | 685211.9 | 17507.2 | 13364.1 | 17929.5 | 5759.5 | 203370.3 | 27895.8 | |
| 2. Diesel | 2533.4 | 4454.0 | 180.0 | 137.4 | 184.4 | | 1321.8 | 281.1 | • |
| E. Off-Highway Usage | | | | | UT 6 T | | 1.141.8 | 401.1 | |
| C. Aircraft | 4073.9 | 9020.27 | | | | | 2000 - | | |
| D. Railroads | 1 : | | | | | 1 | 1230.9 | | |
| R. Vessels | 2.2 | 184.9 | ŀ | 1 | | | 3.4 | | |
| F. Gascline Handling | } | | | | | 1 | | | |
| 6. Total Transportation | 396341 6 | 698871.07 | 17607 2 | 13501.5 | 10112 0 | 2 5818.7 | 205926.4 | 20176 0 | 1384437,27 |
| MA THEORY INDIVIDUAL CONTRA | | 40171 | ±/00/.2) | T220TF2 | TOTT5. A | 6 _ 20T0*/ | | | F771176 / |

PC LUTANT: Carbon Monoxide

VI Miscellaneous Area Sources A. Forest Fires

B. Agricultural, Silvicultural and Landclearing Burning

C. Grove Protection
D. Total Miscellaneous
VII Grand Total
A. Area

B. Point

| | REGION: | Southeast | | | | | | | | |
|---|----------------|----------------|-----------------|-----------------|----------------|-----------------|----------------|-----------------|-----------|--|
| | Broward | Dade | Indian River | Martin | Monroe | Okeechobee | Palm Beach | St. Lucie | TOTALS | |
| 1 | 357.0 197.0 | 601.2 332.0 | 313.3 6166.0 | 343.1 6754.0 | 319.4 176.0 | 477.4 9397.0 | 601.2 332.0 | 358.0 7047.0 | | |
| | 554.0 | 933.2 | 6479.3 | 7097.1 | 495.4 | 9874.4 | 933.2 | 7405.0 | 33771.60 | |
| | | 700090.99 | 24175.42 | 20602.66 | 18635.99 | 15696.31 | 207906.98 | 35595.28 | 419901.46 | |
| | 396935.13 | | 24175.42 | 20602.66 | 18636.99 | 15696.31 | 207846:74 | 35595.28 | | |
| | 261.72 | 9.00 | 0.00 | 0.00 | 0_00 | | 60 24 | | 331.66 | |

POLLUTANT: Hydrocarbon REGION: Southeast Indian Palm Okeechobee St. Lucie Dade Martin Monroe Broward I. Fuel Combustion River Beach A. Residential and Institutional Fuel 1. Coal or Coke a. Area b. Point 2. Distillate Oil 7.62 17.67 0.65 a. Area 0.42 0.63 0.17 4.58 0.81 b. Point 3. Residual Oil 0.9 1.84 0.05 0.04 a. Area 0.08 0.02 0.5 0.07 b. Point 4. Natural Gas* a. Area 9.37 19.15 0.54 0.42 0.79 0.17 0.77 5.27 b. Point 5. Combination 34 a. Area b. Point B. Commercial 1. Distillate Oil 3.19 a. Area 6.43 0.49 0.24 0.05 0.14 1.23 0.41 b. Point 2. Residual Oil a. Area b. Point C. Industrial Fuel · 1. Coal or Coke a. Area b. Point 2. Distillate Oil a. Area 1.2 b. Point Residual Oil a. Area 3.7 b. Point 4. Natural Gas a. Area b. Point 5. Process Gas a. Area b. Point

^{*} Includes Commorcial Uses

| | | | | | | £ | • • | | | | |
|------|------|--------------------------------|--|--|--|--|--|-------------------------------|--|---------------------------------|-----------|
| POL | LUT/ | NT: Hydrocarbon | REGION | : Southe | ast Indian River | , | | y in the second of the second | Palm. | 1 | T |
| | | 6. Wood or Bark | Broward | <u>Dade</u> | River | _Martin_ | Monroe | Okeechobee | Palm Beach | St. Lucie | TOTALS |
| | | a. Area | | | | | | | • | | |
| | | b. Point | 7 | 4. | , | | | | | | |
| | | 7. Combination | | | | | | | | | |
| | | a. Area | | | | | | | 34.9 | ĺ | |
| | | b. Point | Continue Transferred Control Control | | properties of the second secon | | | | | | |
| | D. | Total Fuel | 21.08 | 49.99. | 1.73 | 1.12 | 1.55 | 0.50 | 46.48 | 2.06 | . 124.51 |
| | | Combustion | The second secon | Carried on the State Control of State Co | | design and the Party of the State of the Sta | | | | | - |
| II. | Pow | ver Plants | | , | | | | | | | |
| | A. | Coal | 1 | | | | | į į | | | |
| | В. | Distillate Cil | į | | | | | | | | |
| | C. | Residual Oil | 1 | | | | | 82.J. | | | ĺ |
| | D. | Natural Gas | 2000 3 | 1000 5 | | | | | 863 * | | |
| | E. | Combination | 3389.1 | 1058.9 | | | teres communication of the contraction of the contr | | 721.3 | | |
| | F; | Total Power Plants | 3389,1 | 1058.9 | 12-m | | The state of the s | 82.1 j | 721.3 | | 5251.40 |
| III. | | cess Emissions | | | | | | | | | |
| | A. | | | | | | | | 86.55 | | |
| | | Food and Agriculture | | | | | | | | 7.14 | |
| | C. | | | j | | | | | | | |
| | D. | Mineral | 2.9 | | | | | | 4.3 | | |
| | | Wood | | | | | | | | | |
| | F. | Petroleum Storage | 17828.01 | 3593.3 | 170.94 | į | 62.9 | | 3828.4 | 195.88 | |
| | G., | Petrochemical Operations | 17830.91 | 3593.3 | 170.94 | national and the second section of the second secon | 62.0 | | 2010 AF | 224 | 25000 20 |
| rtt | El. | Total Process Emissions | T/070'3T | 333.3 | 110.34 | | 62.9 | | 3919.25 | 203.02 | 25780.32 |
| IV. | | id Waste Disposal Incineration | | | | | | | ** | | |
| | Α, | | | 134.72 | | | | | | | |
| | | 1. Area 2. Point | 344.13 | 134./2 | | | | | | | |
| | в. | | | - | | | | | * | | - |
| | ρ. | 1. Area | , 4S | | | | | | 340.7 | | |
| | | 2. Point | | | | | | | 340./ | | |
| | Ċ. | | 344.13 | 134.72 | mara naga apanasan ing manya ni anya manananan manananan mananan mananan mananan mananan mananan mananan manan | managangan tanggan sa sa sa sa sa sa sa sa sa sa sa sa sa | | | 340.7 | 4 - mar p 2 1 1 1 1 | 819.55 |
| - 77 | | nsportation | 744.73 | 1320/6 | | · · · · · · · · · · · · · · · · · · · | | | | | 013.33 |
| | A. | ~ | | | | | | | | | |
| | -10 | 1. Gasoline | 63714.8 | 112020.9 | 3368.0 | 2570.9 | 2449 2 | 7700 0 | 33347 7 | 5366 5 | |
| | | 2. Diesel | 492.2 | 865.3 | 35.0 | 2570.9 | 3449.2 | 1108.0 | 33247.7 | 5366.5 | |
| | в. | Off-Highway Usage | 70000 | 003.3 | 33.0 | 20./ | 35.8 | 11.5 | 256.8 | 55.8 |] |
| | c. | Aircraft | 280.93 | 2601.9 | | | | j | 148.9 | | |
| | D. | Railroads | 1 | | | | | | the state of the s | | - |
| | Ē. | Vessels | 1.6 | 132.1 | | | | | 2.4 | | |
| | F. | Gasoline Handling | 3126.2 | 5496.4 | 222.4 | 169.8 | 227.8 | 73.2 | 1631.3 | 354.3 | ž |
| | Ğ. | Total Transportation | 67615.73 | 1 2470.4 | 3625.4 | 2767.4 | 3712.8 | 1192.7 | 35287.1 | 5776 6 | 241094.33 |
| | J. | torar iranshorrarion | 0/043./3 | 127770.0 | 3023.4 | 2/0/.4 | 3/14.0 | TT25' | 33407.1 | 3//0.0 | |

POULUTANT: Hydrocarbon

VI Miscellaneous Area Sources.
A. Forest Fires
B. Agricultural, Silvicultural and Landclearing Burning
C. Grove Protection
D. Total Miscellaneous

VII Grand Total
A. Area
B. Point

| | REGION: | Southeast | processing over the object of the control of the co | | | | | | | |
|--|----------------------|----------------------|--|-----------------|------------------|-----------------|---------------|-----------|-----------|---|
| ١ | Broward | Dade | Indian River | Martin | Monroe | Okeechobee | Palm Beach | St. Lucie | TOTALS | · |
| 1 | 77.9 39.4 | 131.2 66.4 | 68.3 1233.2 | 74.9 1350.8 | 69.7 35.2 | 104.1 1879.4 | 131.2 66.4 | , | | |
| Ì | 117.3 | 197.6 | 1301.5 | 1425.7 | 104.9 | 1983.5 | 197.6 | 1127.5 | 6455.60 | |
| - | 89318.25 | 126151.11 | 5099.57 | 4194.22 | | 3258 - 80 | 40512.4 | 3 7109.18 | 279525.71 | |
| in the second se | 67754.11 21564.14 | 121498.91 4652.20 | | 4194.22 0.00 | 3819.25 62.90 | | | 6906.16 | 248114.96 | |

C-146

| £ſ., | LUTANT: Nitrogen Oxide | : | REGION: So | utheast | | - F | | | | | |
|---|--|---------|------------|---|--------|-----------------|-------------------|--------|----------|--|----------|
| 1. | Fuel Combustion | Broward | Broward** | Dade | Dade** | Indian River | Indian** River | Martin | Martin** | Monroe | Monroe** |
| | A. Residential and Institutional Fuel 1. Coal or Coke a. Area | | | 7 % | | | | | | | |
| | b. Point 2. Distillate Oil a. Area b. Point | 34.58 | 34.58 | 70.57 | 70.57 | 2.62 | 2.62 | 1.8 | 1.8 | 2.51 | 2.51 |
| | 3. Residual Oil a. Area b. Point | 3.6 | 3.6 | 7.34 | 7.34 | 0.2 | 0.2 | 0.16 | 0.16 | 0.3 | 0.3 |
| | 4. Natural Gas* a. Area b. Point | 64.4 | 64.4 | 131.69 | 131.69 | 3.74 | 3.74 | 2.91 | 2.91 | 5.46 | 5.46 |
| | 5. Combination a. Area b. Point | | | | | | | | | economical property of the control o | |
| • | B. Commercial 1. Distillate Oil a. Area | 63.76 | 63.76 | 128.52 | 128.52 | 9.71 | 9.71 | 4.88 | 4.88 | 1.09 | 1.09 |
| 2 | b, Point 2. Résidual Oil a. Area | | | | · Park | | | | | | • |
| 147 | b. Point C. Industrial Fuel 1. Coal or Coke | | | and an analysis of the second | | | | | | | • |
| Commences (Pro- | a. Areab. Point2. Distillate Oila. Area | | | 24.7 | ~:24.7 | ing the second | | | | | |
| | b. Point 3. Residual Oil a. Area b. Point | | | 74.8 | 74.8 | - | | | - 4 | | |
| ma manufacture at a second of the second of | 4. Natural Gas a. Area b. Point | | | | • | | | | · | A constitution of the cons | |
| | . 5. Process Gas a. Area | | | • | • | | | | | | |

^{*} Includes Commercial Uses
** Emissions Achieved Applying Chapter 17-2 FAC

PO LUTANT: Nitrogen Oxide

REGION: Southeast

| ¥ | Fuo | l Combustion | Okeechobee | Okeechobee | Palm Beach | Balm ** | St. Lucie | St. Lucie | | | | |
|--|------------------|--|-------------|------------|---------------|----------|-----------|-----------|-----|-----|-----------|------|
| | | Residential and | | | | | <u> </u> | 201 20020 | | | | |
| | A. | Institutional Fuel | | | | | | , | | | | |
| | | 1. Coal or Coke | • • | Ī | | | | | | | | |
| .4 | | a. Area | } | 1 | | | | | | | | |
| | | b. Point | | | | | | · | | | | |
| | , | 2. Distillate Oil | | | | | | | | | | |
| | | a. Area | 0.78 | 0.78 | 18.31 | 18.31 | 3.14 | 3.14 | | | | |
| | | b. Point | | | | 20101 | 7.71 | | | İ | | |
| | | 3. Residual Oil | | - | | | | | | · | | |
| | | a. Area | 0.07 | 0.07 | 2.0 | 2.0 | 0.3 | 0.3 | | , | | |
| | | b. Point | | | | | | | | | | |
| | | 4. Natural Gas* | 1. | | | | | | | | 4 | |
| | | a. Area | 1.17 | 1.17 | 36.22 | 36.22 | 5.28 | 5.28 | | | | |
| | | b. Point | | | | | | | , | | | |
| , | | 5. Combination | 1 | | | | | | • | | · | 1.70 |
| | | a. Area | | | • | | | | | | | |
| | | b. Point | | | | | | | | | · | |
| • | В. | Commercial | | | | | | | | | | |
| | | 1. Distillate Oil | | | | | | | | | | |
| | | a. Area | 2.8 | 2.8 | 24.69 | 24.69 | 8.24 | 8.24 | • | | | 1 |
| a | | b. Point | | 1 | . ' | | | | | | | |
| | | 2. Résidual Oil | | | | Acres 19 | | | • | | | |
| en en en en en en en en en en en en en e | | a. Area | | £ | | | | | • | | | |
|))) | _ | b. Point | | | | | | | | | | |
| | C. | design and another the control of th | | | | | | | | | | |
| | 'at" | 1. Coal or Coke | | | | | · | l i | | | | |
| | ⁷⁶ 3- | a. Area | | | | | | | ŕ | | | |
| ٠., | | b. Point | | | | | | | | | | |
| | | 2. Distillate Oil | | | i. | | | | • | . • | | ļ |
| | | a. Area | is a second | <i>*</i> | | | | | • . | | | |
| | | b. Point 3. Residual Oil | 1 | | | | , | | · | | • | |
| | • . | a. Area | | | | | | | | | | |
| | | a. Area b. Point | | | | | | ł | | | | |
| | | 4. Natural Gas | | | | , | | | | | | |
| | | a. Area | | | | | | | | | | |
| . • | | b. Point | | 1 | | | | | | | | [|
| | , | 5. Process Gas | | | | • • | | | | | | |
| | . * | a. Area | | 1. | | | | | Α. | | - Charles | |
| | | | | | | | | | • | | | |
| | | b. Point | 1 . | i , | 1 | ι | ₹ | 1 | ľ | 1 | • | , |

k Includes Commercial Uses

| | | | | | | | | | | , | | |
|--|--------------|--------------------------------------|-------------|---|---|--|------------------|--|--|---|--|---------|
| | | | | | | | • | | | | • | |
| *** | | | | : Southeast | | | | | | | t. | ** |
| | بذف ∕نہ | CLUTANT: Nitrogen Oxide | Broward | Broward** | Dade | Dade ** | River | River | Martin | Martin ** | Mannas | Monro |
| | - | 6. Wood or Bark | Broward | BIOWAID | Dade | Dage | | RIVEI | LETETH | Mallin | i | Toniqe |
| į. | | a. Area | 1 | | | ** | | | | | · | Ì |
| | | b. Point 7. Combination | | | ŕ | 4. | | | | | | |
| and the second | | a. Area | | | • | | Í | | · . | | | |
| | | b. Point | | | | | | - | | | | |
| | | D. Total Fuel . | 166.34 | 166.34. | 437.62 | 437.62 | 16.27 | 16.27 | 9.75 | 9.75 | 9.36 | 9.3 |
| | مؤداجه | Combustion | • | | | | | | | - | r | |
| | 77. | Power Plants A. Coal | | | | | | | | | | |
| | | B. Distillate Oil | | · | | · | | | | | | |
| | | C. Residual Oil | | | | | | | | | 1724.6 | 739.1 |
| | | D. Natural Gas | 41809.9 | 22407.9 | 15811.7 | 7206.8 | | | | · | ٠. | |
| in the second | | E. Combination F. Total Fower Plants | 41809.9 | 22407.9 | 15811.7 | 7026.8 | | Constitution of the Consti | | | 1724.6 | 739.1 |
| | TIT. | Process Emissions | - | distriction of the contemporal party of | | , 020 C | | ······································ | | | 1/44.0 | 1 27 13 |
| r r | | A. Chemical | | | | | | • | | | | |
| 1 0 | | B. Food and Agriculture | 1 | | | | | | | | | |
| 7 | | C. Metallurgical | | | | | | | | | | |
| Š. | | D. Mineral E. Wood | 58.5 | 58.5 | | | | | 9.88 | 9.88 | | i ! |
| 45 | | F. Petroleum Storage | | | | | | : | | | | |
| X. | ." | G. Petrochemical Operations | | | | | | | | | erry Hampyon France Printer Company (1979) | - |
| Ò | MPE A | H. Total Process Emissions | 58.5 | 58.5 | | der met to a factoristic payment of the control of the factoristic and the factoristic | | Constitution of the Consti | 9.88 | 9.88 | | |
| -149 | IV. | Solid Waste Disposal A. Incineration | | 1 | | | | | | | | |
| 4 | | 1. Area | | | 179.6 | 179.6 | | | | | | 1 |
| 1 | | 2. Point | 458.85 | 458.85 | | . 27.00 | | | | | | |
| | · D : | B. Open Burning | | | | ÷ | | · | | | | |
| ĺ | • | 1. Area 2. Point | | | | | | | | | ٠. ا | |
| 1 | | C. Total Solid Waste Disposal | 458.85 | 458.85 | 179.6 | 179.6 | | enter control of the | The second secon | | | - |
| A . | ٧. | Transportation | | | an water and the same time in the same in | | | hi ngugang Temingki Mesaki (Salan nging) najanjan ngumbi sirin | | *************************************** | | - |
| | | A. Motor Vehicles | 36918.8 | 76010 0 | 64000 7 | *64000 7 | 70.60 0 | 7060 0 | 0.000 | 0.026 5 | 2124 2 | |
| A. | | 1. Gasoline | 2876.3 | 36918.8 2876.3 | 64909.3 5056.9 | 64909.3 5956.9 | 3060.8 204.34 | 3060.8 204.34 | 2336.5 | 2336.5. 155.9 | 3134.7 209.4 | 3134.7 |
| k i | • | 2. Diesel 2. Off-Highway Usage | 20,0.3 | 20.0.5 | 3030.3 | 2930.3 | 207.34 | 207.54 | 135.5 | 1.000 | 403.4 | 1 4000 |
| 1 | | C. Aircraft | 286.08 | 286.08 | 1578.74 | 1578.74 | | | | | | |
| i de la companya de l | | D. Railroads | 2.4 | 2.4 | 198.1 | | | | • | | | |
| 1 | | E. Vessels | | | • | | | | | 4 | | |
| 78,000 | * | F. Gasoline Handling | 40083.58 | 40083.58 | 7174 02 | 71743.04 | 3265.14 | 3265.14 | 2492.40 | 2402 40 | 3344.10 | 2211 |
| | | G. Total Transportation | 1 444003.30 | 1 40003.30 | * 1 * 1 * 3 * U * | 1 11/43+44 | P. 4 . C Date | · 50000.14 | ムサフム・サリ | · 4426.40 . | 3344.10 | 3344.1 |

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| | | - Y | 121 | | ٠ | | - | • | | ** |
|--|--|--|--|-----------|--|---|--|-----------|--|------|
| \$ 100 A 100 A | - | | 1824 Sec. | • | * | | | | ï | |
| 1 | | á | | | | | • | , | | L.W |
| POLLUTANT: Nitrogen Oxide | REGION: | Southeas | t | | | | | | n varituritation in the safe sugar and annual contractions. | |
| 6. Wood or Bark | Okeechobee | Oke e chobee | PalmBeach | PalmBeach | St. Lucie | St. Luciê | TOTALS | TOTALS** | ** ********** * | - |
| a. Area | | | the magn | | | | | | 114 | |
| b. Point | | | | | | | | | | |
| 7. Combination | | | | | [| | | | 45 | 1 |
| a. Area | ٠. | * | 544.5 | 544.5 | | | , | | | } |
| b. Point D. Total Fuel | 4.82 | 4.82 | | | 16.06 | 76.06 | 7000 00 | 1005 01 | | - |
| Combustion | 7,02 | 4.04 | 023.72 | 023./2 | 16.96 | 16.96 | 1286.84 | 1286.84 | | - |
| II. Power Plants | | | , | · | | | | | • | |
| A. Coal | | | | | | | | | | |
| B. Distillate Oil | | | | | | | | Λ, | | 1 |
| C. Residual Oil | | | · | | | | | | | |
| D. Natural Gas E. Combination | | | 9945.3 | 4638.2 | | | | | * | |
| F. Total Power Plants | -action/calcinamina-agginal depth also to the system of the second | - manufacturing the transfer of the transfer o | 9945.3 | 4638.2 | AND THE REAL PROPERTY AND ADDRESS OF THE PARTY | | 69291.50 | 34992.00 | non market and was a so | - |
| III. Process Fmissions | - AND SECTION OF SECTION SECTI | Tanana Tanana Manaka Manaka Manaka Manaka Manaka Manaka Manaka Manaka Manaka Manaka Manaka Manaka Manaka Manaka | Common to the common transfer of | | - married and an indicate of the con- | anda una della errendendende della internaciana dante | Andrew Control of the | | Marine Salver and Company of the Principles of Street Salver Salv | - |
| A. Chemical | | | | · | | | | | * | |
| B. Food and Agriculture | | e e e e e | • | | 30.4 | 30.4 | | | . • | |
| C. Metallurgical | 188 T. | | 95.12 | 95.12 | | | | | | 1 |
| E. Wood | e e | | 00,10 | 23.14 | | .* | | | | |
| F. Petroleum Storage | | - | | | | | | | 4. | |
| G. Petrochemical Operations | extensel respectable names and severe equations. | | 95.12 | | | | | | | |
| H. Total Process Emissions | energaponius en minimagen minimagen. | ······································ | 33.14 | 95.12 | 30.4 | 30.4 | 193.90 | 193.90 | · · · · · · · · · · · · · · · · · · · | - |
| IV. Solid Waste Disposal A. Incineration | | | | 7 | | | | | · | |
| 1. Area | | | | | | | | | 5. | |
| 2. Point | | ` . | | | | | | | | |
| B. Open Burning | | | | | ** in | · · | | | | 1 1 |
| 1. Area 2. Point | | - | 68.1 | 68.1 | | | | , | ث. | |
| C. Total Solid Waste Disposal | The second secon | | 68.1 | 68.1 | | | 706.55 | 706.55 | many management of the se- | |
| V. Transportation | tanggangan permahangan sebagai sebagai sebagai se | | The state of the s | | | hartenitterarenantstateannersarenantstate | ************************************** | | | - |
| A. Motor Vehicles | | | | | | | | | | |
| 1. Gasoline | 1006.9 | 1006.9 | 19265.0 | 19265.0 | 4877.1 | 4877.1 | | | | |
| 2. Diesel | 67.2 | 67.2 | 1500.7 | 1500.7 | 326.0 | 326.0 | - | | | 1.75 |
| E. Off-Highway Usage C. Aircraft | | | 171.3 | | | | | | | İ |
| D. Railroads | aring the same of | | 3.6 | | | | | | | |
| E. Vessels | | | | | | į | | | | |
| F. Gasoline Handling | | | | | | <u></u> | 1 | | | |
| G. Total Transportation | 1074.10 | 1074.10 | 20940.6 | 20940.6 | 5203.1 | 5203.1 | 148146.06 | 148146.06 | | |

The state of the s

| 201 | LUTANT: Nitrogen Oxide . | REGION: S | Southeast | | · | | | | | | |
|-----|--------------------------------|-----------|-----------|----------|----------|---------|----------|---------|------------|---------|-----------|
| 77- | | Broward | Broward** | _Dade | Dade** | kiver | River ** | Martin | Martin **! | Monroe | Monroe ** |
| VI. | Miscellaneous Area Sources | | | | · | | | | | Ì | |
| | A. Forest Fires | 13.0 | 13.0 | 21.9 | 21.9 | 11.4 | 11.4 | 12.5 | 12.5 | 11.6 | 11.6 |
| | B. Agricultural, Silvicultural | 3.9 | 3,9 | 6.6 | 6.6 | 123.3 | 123.3 | 135.1 | 135.1 | 3.5 | 3.5 |
| | and Landclearing Burning | | 1 | | | . ' | | i | | | ~ * - |
| | C. Grove Protection | | | | | | | | | | |
| : | D. Total Miscellaneous | 16.9 | 16.9 | 28.5 | 28.5 | 134.7 | 134.7 | 147.6 | 147.6 | 15.1 | 15.1 |
| TI | Grand Total . | 82594.07 | 63192.07 | 88200.46 | 79595.56 | 3416.11 | 3416.11 | 2659.63 | 2659.63 | 5093.16 | 4107.65 |
| | A. Area | 40266.82 | 40266.82 | 72388.76 | 72388.76 | 3416.11 | 3416.11 | 2649.75 | 2649.75 | 3368.56 | 3368.5 |
| | B. Point | 42327.25 | 22925.25 | 15811.70 | 7206.80 | 0.00 | 0.001 | 9.88 | 9.88 | 1724.60 | 739.10 |

• • •

| VI. | Mis | cellar | eou |
|-----|-----|--------|------|
| | A. | Fores | |
| | B: | Agric | ulti |
| | | and I | |
| | c. | Grove | Pro |
| | D. | Total | Mis |
| VII | Gra | nd Tot | al |
| | A. | Area | |
| | В. | Point | |

POLLUTANT: Nitrogen Oxide

| trogen Uxide | REGION: S | outheast. | Character of the Contract of t | | | | | | | |
|--|--|--|--|---|---|-----------|--|--|--|--|
| | Okeechobee | Okeechobee | PalmBeach | PalmBeach | St. Lucie | St. Lucie | TOTALS | TOTALS** | | |
| ous Area Sources | * | | | | | | All to produce the production of the con- | | | |
| Fires | 17.4 | 17.4 | 21.9 | 21.9 | 13.0 | 13.0 | | | | |
| ltural, Silvicultural ndclearing Burning | 187.9 | 187.9 | 6.6 | 6.6 | 140.9 | 140.9 | | | | |
| Protection | • | | | | | | · | | | } |
| Miscellaneous | 205.3 | 205.3 | 28.5 | 28.5 | 153.9 | 153.9 | 730.40 | 730.40 | | |
| 1 ' | 1284.22 | 1284.22 | 31703.34 | 26396.24 | 5404.36 | 5404.36 | 220355.25 | 186055.75 | | |
| | 1284:22 0:00 | 1284.22 0:00 | 21118:42 | 21118:42 | 5373.96 30:40 | 5373.96 | 149866.60 | 149866.60 36189.15 | | |
| | AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, TH | - Barrens of the same of the s | (Principality and the second of the second o | eller mitter av gegrenne sinner strander mår stosså gren er sed | But any and the second | | and the state of t | ture manufacture the state of t | grand was an an an an an an an an an an an an an | Age also have been a new market and an |

EMISSION INVENTORY SUMMARY
Southwest Florida Intrastate AQCR

| Fuel Combustion | Charlotte | Collier | Desoto | Glades | Hendry |
|--|-----------|---------|--|--|--|
| A. Residential and | | | | | |
| Institutional Fuel | | | | | |
| Coal or Coke | 1 | | į | | |
| a. Area | | 1,900 | | | - |
| b. Point | | | *** | | |
| 2. Distillate Oil | | 2 22 | 1 2 2 2 | | |
| a. Area | 3.08 | 3.80 | 2.20 | 0.38 | 1.60 |
| b. Point | | | | | |
| 3. Residual Oil | 0.32 | 0.37 | 0.33 | | |
| a. Area | 0.27 | 0.37 | 0.13 | 0.03 | 0.12 |
| b. Point | 1. | Table 1 | | | |
| 4. Natural Gas* a. Area | 0.23 | 0.32 | 0.11 | 0.03 | 0.10 |
| a. Area b. Point | 0.23 | 0.32 | J V.I.I. | 0.03 | 0.10 |
| 5. Combination | | | | | |
| a. Area | 1 | 1 | | | |
| b. Point | | 4 | | Editorial State of the Control of th | |
| B. Commercial | | 1. | - | | |
| 1. Distillate Oil | | | - | | |
| a. Area | 0.20 | 0.17 | 0.25 | 0.04 | 0.15 |
| b. Point | | | | | |
| 2. Residual Oil | | | 111 | | |
| a. Area | | | - | | |
| b. Point | | | | | |
| C. Industrial Fuel | | | | | de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la |
| 1. Coal or Coke | | | - Current | | |
| a. Area | | | | | |
| b. Point | | | | | 1 1 |
| 2. Distillate Oil | | | | | |
| a. Area | | - | | | |
| b. Point3. Residual Oil | | 1. 14 | | | |
| 3. Residual Oil a. Area | | 1 | _ | | |
| a. area b. Point | , , | | į | a secondary seco | 99.5 |
| 4. Natural Gas | | | | | |
| a. Area | | | Ti- | | |
| b. Point | | | | | |
| 5. Process Gas | | | Ĭ | | |
| a. Area | | | in the state of th | | |
| | | | | . 1 | |

^{*} Includes Commercial Uses

| $\mathbf{p} > 0$ | LUTANT: Particulate | REGION: | Southwest | | too the make the larger than t | an experience of the second | gan in a company and a construction of the control |
|------------------|--|-----------|-----------|----------|--|-----------------------------|---|
| I. | Fuel Combustion | Highlands | Lee | Sarasota | | | |
| • • | A. Residential and Institutional Fuel 1. Coal or Coke a. Area b. Point | | | | | | |
| | 2. Distillate Oil a. Area b. Point 3. Residual Cil | 4.67 | 12.08 | 20.78 | | | |
| | a. Area b. Point 4. Natural Gas* | 0.30 | 1.04 | 1.20 | | | |
| | a. Area b. Point 5. Combination | 0.25 | 0.88 | 1.01 | | | |
| C-15 | a. Area b. Point B. Commercial 1. Distillate Oil a. Area b. Point 2. Residual Oil a. Area | 0.49 | 0.81 | 2.38 | | | |
| (J | b. Point C. Industrial Fuel 1. Coal or Coke a. Area b. Point 2. Distillate Oil a. Area b. Point 3. Residual Oil a. Area b. Point 4. Natural Gas a. Area b. Point 5. Process Gas a. Area b. Point | 2.65 | | | | | |

^{*} To the proper wint Hong

| DLLUTANT: Particulate | | Collier | Desoto | Glades | 77.0 |
|--------------------------------------|-----------|---------|--------|--------|----------|
| 6. Wood or Bark | Charlotte | COILIEI | Desoco | Grades | Hendry. |
| a. Area | | | | .] | |
| b. Point | | | 28.6 | | |
| 7. Combination | | | | | |
| a. Area | | | | 074 70 | |
| b. Point | | | | 874.73 | 14121.0 |
| D. Total Fuel | 3.78 | 4.66 | 31.29 | 875.21 | 14222.47 |
| Combustion | | | | | |
| . Power Plants | | | - | | |
| A. Coal | | | _ | | |
| B. Distillate Oil | | 1 | | | |
| C. Residual Oil | | | | | |
| D. Natural Gas | | | | | |
| E. Combination | | | | | |
| F. Total Power Plants | | | | | |
| . Process Emissions | | | | | |
| A. Chemical | | 1 | | | |
| B. Food and Agriculture | | | 174.0 | | 9.68 |
| C. Metallurgical | 69.55 | 200 50 | 2 = 2 | | į |
| D. Mineral | 69.55 | 300.52 | 0.72 | | |
| E. Wood | | | | | |
| F. Petroleum Storage | | | | | |
| G. Petrochemical Operations | 69.55 | 300.52 | 174.72 | | |
| H. Total Process Emissions | 03.33 | 300.32 | 1/4./2 | | 9.68 |
| Solid Waste Disposal A. Incineration | | · | | · | |
| A. incineration 1. Area | 5.14 | 9.5 | 0.76 | 1.63 | 1.5 |
| 2. Point | | 7.0 | 0.70 | 1.03 | 1.5 |
| B. Open Burning | | | | | , |
| 1. Area | , | | | | |
| 2. Point | | 1 | | _ | |
| C. Total Solid Waste Disposal | 5.14 | 9.5 | 0.76 | 1.63 | 1.5 |
| Transportation | | | | | |
| A. Motor Vehicles | | | i l | | |
| 1. Gasoline | 43.5 | 96.9 | 34.0 | 12.3 | 30.1 |
| 2. Diesel | 6.91 | 15.42 | 5.4 | 1.95 | 4.79 |
| B. Off-Highway Usage | | | | | |
| C. Aircraft | | | | | |
| D. Railroads | | | | 0.7 | 0.8 |
| E. Vessels | | | | 0.7 | 0.8 |
| F. Gasoline Handling | | | | 1 | : |
| G. Total Transportation | 50.41 | 112.32 | 39.4 | 14.95 | 35.69 |

| OLLUTANT: Particulate | REGION: Sout | | | The same of the same services and a same of the same services and the same services are same of the same services and the same services are same of the same services and the same services are same services and the same services are same services and the same services are same services and the same services are same services and the same services are same services are same services and the same services ar | |
|-------------------------------|---|--|----------|--|-----|
| | Highlands | Lee | Sarasota | TOTALS | |
| 6. Wood or Bark | | | | | į ! |
| a. Area | | | | | |
| b. Point | ŀ | | - | | |
| 7. Combination | | 1 | | | |
| a. Area | 1 | | | | |
| b., Point | 1 . 6 6 | | | | |
| D. Total Fuel | 4.62 | 14.81 | 25.37 | 15182,21 | |
| Combustion | | | | | |
| I. Power Plants | 1 | | | | |
| A. Coal | | | | İ | |
| B. Distillate Oil | | I | | | į |
| C. Residual Oil | | 549.7 | | - | ! |
| D. Natural Gas | 108.16 | | | | į |
| E. Combination | 108.16 | The state of the s | | and the state of t | |
| F. Total Power Plants | 708*70 | 549.7 | | 657.86 | |
| . Process Emissions | | | | | , |
| A. Chemical | | | | | |
| B. Food and Agriculture | , . | | | | |
| C. Metallurgical | sie os | | | , | |
| D. Mineral | 75.35 | 59.18 | 65.6 | ' | ; |
| E. Wood | | 1 | 1 | | |
| F. Petroleum Storage | | | | | |
| G. Petrochemical Operations | and has the state of the state | | | | |
| H. Total Process Emissions | 75.35 | 59.18 | 65.6 | 754.60 | |
| Solid Waste Disposal | | | | - | |
| A. Incineration | 7 04 | 1 22 24 | | | |
| 1. Area | 1.34 | 16.84 | 17.8 | | İ |
| 2. Point | | | l l | | |
| B. Open Burning | | | | | |
| 1. Area | | | | | į |
| 2. Point | | | | | |
| C. Total Solid Waste Disposal | 1.34 | 16.84 | 17.8 | 54.51 | |
| Transportation | | | | | |
| A. Motor Vehicles | | | | | į |
| 1. Gasoline | 69.3 | 223.4 | 200.8 | 1 | |
| 2. Diesel | 11.03 | 35.56 | 31.97 | | |
| B. Off-Highway Usage | | | | | • |
| CAircraft | | | | | |
| D. Railroads | | 0.6 | 0.4 | | ! |
| E. Vessels | | | | | : |

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| C | Ø |

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| | • | • | | | | • |
| | | | | | | |
| 50. | LUTANT: Particulate | REGION: Southwest | | | | |
| 10 | Zorratt Tartrourate | | Collier | | | |
| VI | Miscellaneous Area Sources | Charlotte | -1 Collier | Desoto | Glades | Hendry |
| | A. Forest Fires | 241.1 | 938.0 | 227.7 | 140.2 | |
| | B. Agricultural, Silvicultural | 1743.9 | 303.79 | 1646.96 | 1518.3 | 562.8 |
| | and Landclearing Burning | | | | 1318.3 | 182.2 |
| | C. Grove Protection | | 42.0 | | | |
| | D. Total Miscellaneous | 1985.0 | 1283.79 | 1874.66 | 1658.5 | 745.0 |
| JII | Grand Total | 2113.88 | 1710.79 | 2120.83 | 2550.29 | 15014.34 |
| | A. Area | 2044.33 | 1410:27 | 1917.51 | 1675.57 | |
| | B. Point | 09.55 | 300.52 | 203.32 | 874,73 | 14230:18 |

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POLLUTANT: Particulate REGION: Southwest TOTALS Highlands Sarasota VI Miscellaneous Area Sources . A. Forest Fires 193.6 375.2 200.9 B. Agricultural, Silvicultural 2096.6 121.38 1453.3 and Landelearing Burning C. Grove Protection . 496.58 1658.2 12523.93 D. Total Miscellaneous /II Grand Total 3092.0 2908.49 183.51 1396.67 787.79 608.88 2000.14 29998.94 A. Area 1934.54 65.60 B. Point

of the Marketta to Comme

| POI | LUTANT: | Sulfur Oxides | RI | EGION: SOL | thwest | الرواني ودارا والمقاولين الاجهاد والمتحددات والدارة | | | | ga samma alkatika at a agaagad ana s | · · · · · · · · · · · · · · · · · · · | | · |
|-----|---------|------------------------------------|-----------|------------|--------|---|--------|-----------|-------|--------------------------------------|---------------------------------------|-----|--------|
| I. | Fuel Co | ombustion | Charlotte | Collier | | Glades | Hendry | Highlands | Lee | Sarasota | | | |
| | A. Res | idential and | | | **** | , | | | | | (| | |
| | | stitutional Fuel | 1 | | | | | | | | | 1 | 1 |
| | 1. | Coal or Coke a. Area | 1 | | | | | | | | | | |
| | | b. Point | 1 | | | |] | | | | 1 | | |
| | 2. | | | | | | | | | | 1 | | - (|
| | | a. Area | 2.22 | 2.70 | 1.69 | 0.33 | 1.16 | 3.36 | 8.69 | 14.96 | | i | |
| | _ | b. Point | | : | | | 1 | | | | | | |
| | . 3. | Residual Oil | 7.90 | 70 07 | 2 | | | | | 1 | | } | |
| | | a. Area b. Point | 7.90 | 10.87 | 3.73 | 1.04 | 3.40 | 8.43 | 30.0 | 34.4 | | | 1 |
| | 4 - | Natural Gas* | 1 | : | | 1 | | | | 1 | | | - 1 |
| | | a. Area | 0.01 | 0.01 | 0.003 | Neg. | 0.003 | 0.007 | 0.027 | 0.031 | 1 | | |
| | | b. Point | 1 | | | | | | 0.02 | 0.031 | | | 1 |
| | 5. | Combination | 15 | | | | | | | £ | į | 1 . | 1 |
| ဂူ | | a. Area b. Point | | | | | | | | | <u> </u> | 1 | |
| ű | B. Con | mercial | 1 | | | | | | | | ! | | |
| 160 | | Distillate Oil | | : | | | | | ٠ | | | | ĺ |
| _ | | a. Area | 0.09 | 0.08 | 0.12 | 0.02 | 0.07 | 0.24 | 0.39 | 1.14 | | | |
| | • | b. Point | | | | | | | | | ĺ | | - |
| | 2. | Residual Oil a. Area | 1 | | | | 1 | | | | 1 | | i |
| | | b. Point | | | | | | | | | ĺ | | |
| | | Rustrial Fuel | | | · | | | j | | | | | |
| | 1. | Coal or Coke | | | | 1 | | | | | | | |
| | | a. Area | | | | - | | | | | | 1 | |
| | 2 | <pre>b. Point Distillate Oil</pre> | 1 1 | | | | | } | | | - | | |
| | | a. Area | 1 | | | | | | | | • | | į |
| | | b. Point | | | | | | | | | | Í | 1 |
| | 3. | | 1 | • | | | | | | | (| | |
| | | a. Area | | | | | | 14.9 | | | <u> </u> | - | - |
| | 4 | b. Point Natural Gas | | | | | 354.7 | | | ļ | ļ | - | - |
| | . 4. | a. Area | | | | | | | | | | | i I |
| | | b. Point | | | | : | | | | | | | |
| | Έ. | Process Gas | | | | | | | | | | 1 | 1 |
| | | a. Area | | | | : | | | | į | **** | Ì | į |
| | | to make the | 1 | | i | * | f | ; | | 1 | : | i | |

^{*} That was Pager was at Though

| | | | | 2 | | | | ' · | ٠ پير |
|---|-----------|----------|-------------|--------|----------|-----------------------|---------|----------|----------|
| POLLUTANT: Sulfur Oxides | REGION: | Southwes | | | | | | • | 3 |
| TODDOTTALE DELLET ONLOGE | Charlotte | | 1 | Glades | Hendry | Highlands | Lee | Sarasota | TOTALS |
| Wood or Bark | | | Account 150 | | 1 | 1.11.1.911.1.111.1.11 | | Sarascaa | |
| a. Area | .] | | | ! | | 1 | | | 1 |
| b. Point7. Combination | | , | | i l | | | ļ | | |
| a. Area | 1 | ļ | | į | | | ļ | , | |
| b. Point | | | | 651.24 | 241.9 | | | | |
| D. Total Fuel | 10.22 | 13.66 | 5.54 | 652.63 | 601.23 | 26.93 | 39.11 | 50.53 | 1399.8 |
| Combustion | | | | | | | | | |
| II. Power Plants | | | | i j | | | | | 1 |
| A. Coal B. Distillate Oil | | ļ | | i | | | | 1 | |
| C. Residual Oil | | ļ | | , | | | 19823.0 | | i |
| D. Natural Gas | | | į | , , | | | 17023.0 | | l |
| E. Combination | | | | | | 840.5 | | | ļ |
| F. Total Power Plants | | | | | | 840.5 | 19823.0 | | 20663.5 |
| O III. Process Emissions | | | | | | | | | |
| A. Chemical B. Food and Agriculture | | | 225.8 | i | 4.69 | 1 | | i | į |
| B. Food and Agriculture C. Metallurgical | 1. | | 223.0 | | *± ₀ U ⊅ | 1 | 1 | i | İ |
| D. Mineral | 116.3 | 1.7 | i | | | 172.5 | 46.5 | 62.0 | İ |
| E. Wood | | | | i | | | | | İ |
| F. Petroleum Storage | | | 1 | | | 1 | | i | |
| G. Petrochemical Operations | 116.3 | 1.7 | 225.8 | | 4 60 | 1 370 = | | | |
| H. Total Process Emissions IV. Solid Waste Disposal | 110.3 | 1./ | 223.8 | | 4.69 | 172.5 | 46.5 | 62.0 | 629.4 |
| A. Incineration | 1 | | | | | 1 | | | İ |
| 1. Area | 0.85 | 1.6 | 0.12 | 0.3 | 0.25 | 0.22 | 2.8 | 2.96 | i |
| 2. Point | 1 | , * , | | | - | | | | |
| B. Open Burning | j | | | | ē. | | | i l | İ |
| 1. Area | Į į | | | ; - J | + 4x | | | | 1 |
| 2. Point C. Total Solid Waste Disposa | 1 0.85 | 1.6 | 0.12 | 0.3 | 0.25 | 0.22 | 3 6 | 2.06 | |
| V. Transportation | 1 0.03 | 1.0 | 0.12 | U.3 | 0.25 | 0.22 | 2.8 | 2.96 | 9.1 |
| A. Motor Vehicles | 1 | | | | | 1 | ļ | | İ |
| 1. Gasoline | 21.8 | 48.46 | 17.0 | 6.1 | 15.0 | 34.7 | 111.7 | 100.4 | İ |
| 2. Diesel | 32 24 | 29.53 | 10.35 | 3.73 | 9.16 | | 68.1 | 61.22 | İ |
| · B. Off-Highway Usage | 1 .] | | 1 | | | | | | |
| C. Aircraft | | -] | 1 | | | | | , 1 | |
| D. Railroads E. Vessels | | , | | 1.9 | 2.2 | | 1.6 | 0.9 | ; |
| F. Gasoline Handling | | , | | , | | 1 | | | <u>;</u> |
| G. Total Transportation | 35.04 | 77.99 | 27.35 | 11.73 | 26.36 | 55.83 | 181.4 | 162.52 | |

•

POLLUTANT: Sulfur Oxides

VI Miscellaneous Area Sources. A. Forest Fires

B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection

D. Total Miscellaneous

'II Grand Total

A. Area

B. Point

| | REGION: S | outhwest | and the second s | ** · · · · · · · · · · · · · · · · · · | | | | | | |
|---|-----------|----------|--|--|--------|-----------|----------|----------|----------|--|
| | Charlotte | | DeSoto | Glades | Hendry | Highlands | Lee | Sarasota | TOTALS | |
| | | | | | | | | | | |
| | | | | | | ' | | | | |
| ٦ | | | | | 1 | | | | | |
| 1 | | 20.0 | | | | 258.0 | | 2.0 | | |
| | | 20.0 | | | | 258.0 | | 2.0 | 280.00 | |
| į | 162.41 | 114.95 | | 664.66 | 632.53 | 1353_98 | 20092.81 | 280.01 | 23560.16 | |
| | 116.30 | 113.25 | | 13.42 | 31.24 | 340.98 | 223:31 | 218:01 | 1089.52 | |
| ļ | 46.11 | 1.70 | 225.80 | 651.24 | 601.29 | 1013.00 | 19869.50 | 62.00 | 22470.64 | |

PCLLUTANT: Carbon Monoxide REGION: Southwest

I. Fuel Combustion Charlotte Collier DeSoto Glades Hendry Highlands Lee Sarasota

| | • | | | | | ~- ~ | | 1 _ | ! | 1 | i |
|-----|------------------------------------|------------|---------|--------|--------|--------|-----------|------|----------|---|----------|
| I. | Fuel Combustion | Charlotte | Collier | DeSoto | Glades | Hendry | Highlands | Lee | Sarasota | | <u> </u> |
| | A. Residential and | | | rati | | | | · | | | |
| | Institutional Fuel | | | | | | | | | | |
| | 1. Coal or Coke | | , | | | | İ | | | | |
| | a. Area | | | | | | | | | | |
| | b. Point | | | | | _ | | | • | | |
| | Distillate Oil | | | | , | · | | | | · | |
| | a. Area | 1.54 | 1.92 | 1.36 | 0.27 | 0.96 | 2.86 | 6.89 | 12.92 | | |
| | b. Point | 1.54 | *.0% | 1.50 | 0121 | 0.50 | 2.00 | 0.05 | 14.34 | | |
| | Residual Oil | | | _ | | | | | | | ĺ |
| | a. Area: | 0.14 | 0.20 | 0.06 | 0.02 | 0.06 | 0.15 | 0.52 | 0.60 | | |
| | b. Point | | | | : | | | | | | |
| | 4. Natural Gas* | | | | | | | | | | |
| | a. Area | 0.24 | 0.33 | 0.11 | 0.03 | 0.10 | 0.26 | 0.93 | 1.06 | | |
| | b. Point | | | | | | | | | | |
| | Combination | I S | | | | | | 1 | | · | |
| | a. Area | 1 | | | | | | 1 | | | |
| | b. Point | | | | | * | | | , i | | |
| G | B. Commercial | | | • | _ | | | ' | | | |
| 1 | Distillate Oil | | | | · | · | | , | | | |
| 163 | a. Area | Neg. | Neg. | Neg. | Neg. | Neg. | 0.01 | 0.01 | 0.03 | | · |
| Ω | b. Point | | , | | | | | | | | |
| - | 2. Residual Oil | | | | | | | | | | |
| | a. Area | | | | | * | | • | | | ``` |
| | b. Point |] | | | | | | | 1 | | |
| | C. Industrial Fuel | j · | | | | | | | | | |
| | Coal or Coke | | | | | | } | | | | |
| | a. Area | | | | | | l l | | _ | | |
| | b. Point | | | | | | į | | • | | |
| | 2. Distillate Oil | | | | | 1 | 1 | | | | |
| | a. Area | 1 | - : | | • | 1.00 | | 1 | 1 | | 1.4 |
| | b. Point | | | | | ; | | | | | |
| | Residual Oil | | | | • | | | | | | |
| | a. Area | | | | | 0.2 | | | | | |
| | b. Point | | | | | | | | | | |
| | 4. Natural Gas | | | | | | | | | | |
| | a. Area | | | | | | 1 |) | 1 | | |
| | b. Point | } | | | | |] | | | | |
| | 5. Process Gas | } | | | | | | | | | |
| | a. Area | | | | | | 1 | Ì | | | |
| | b. Point | | | * | | ļ | | • | | | |

^{*} Includes Commorgial Uses

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| | ٠. |

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|-----|------------------|-------------------------------|--|--|--------|--------|--------|----------------|--|----------|-----------|
| | | | | | | | | | | | |
| | | 2.1 7 | | | ٠ | 31 | | • | | • | |
| | | - | | | | | | | | | |
| | | | | | | 21 | | | | | |
| | | • | | | | | | | • | | |
| | | | | Mir- | | | · | | | | |
| | POLLUTANT: | Carbon Monoxide | REGION | the same of the sa | | · · · | | · · premior | 1 | T | T |
| | 6. | Wood or Bark | Charlotte | Collier | DeSoto | Glades | Hendry | Highlands. | Lee | Sarasota | TOTALS |
| | ٠. | a. Area | | | 2.08 | | : | | | | |
| | | b. Point | | | 1 | | | at a second | | | |
| | 7. | Combination | • | | | | | | 1 | | |
| | | a. Area b. Point | : | | | 0.3 | 0.1 | | | | |
| | | tal Fuel | 1.92 | 2.45 | 3.61 | 0.62 | 1.42 | 3.28 | 8.35 | 14.61 | 36.26 |
| | Con | mbustion | | | | | | 1 | 1 | | T |
| | II. Power 1 | . — | | 1 | | | - | | | | |
| | | stillate Oil | | | | | | | | | |
| | | sidual Oil | | | | | | | 3.03 | | |
| | | tural Gas | | | | | | 0.93 | 3.03 | | |
| C | | mbination tal Power Plants | | | | | | | | | |
| C-1 | F. To | | The same of the sa | | | | | 0.93 | 3.03 | ļ | 3.96 |
| 6 | A. Che | emical | | | 2.2 | | | | | 1 | İ |
| 4 | B. Foo | od and Agriculture | | | | | | | | t | |
| | | tallurgical | • | | | | | | | | - |
| | D. Min E. Woo | | | | | | | 0.8 | | | |
| | F. Pe | troleum Storage | | | | | | | 1 | - | |
| | G. Pet | trochemical Operations | | | | | | | | ļ | |
| | H. Tot | tal Process Emissions | | | | | - | 0.8 | - | | 0.80 |
| | TA DOLLO | Vaste Disposal | | | - | | - | | all the same of th | | |
| | | Area | 7.15 | 13.2 | 1.05 | 2.3 | 2.11 | 1.86 | 23.4 | 24.7 | |
| | 2. | Point | 4 | | | | | 1 | | | |
| | | en Burning | | | | | | | Ī | 1 | <u> </u> |
| | | Area Point | <i>i</i> . | | | | | | 1. | | |
| . • | | tal Solid Waste Disposal | 7.15 | 13.2 | 1.05 | 2.3 | 2.11 | 1.86 | 23.4 | 24.7 | 75.77 |
| | V. Transpo | ortation | | | 1 | | | 1.00 | - 63.4 · | 69.1 | 13.11 |
| | A. Mot | tor Vehicles | | | | , , | | | | | |
| | | Gasoline Diesel | 8990.3 | 20026.6 | 7029.6 | 2534.0 | 6213.9 | 14327.0 | 73098.1 | 65725.2 | Ì |
| | | f-Highway Usage | 92.4 | 206.0 | 72.2 | 26.0 | 63.9 | 147.4 | 475.1 | 427.2 | |
| | C. Ai | rcraft | • | | | , | | į | | | ì |
| | D. Rai | llroads | | | | 2.1 | 2.4 | | 1.7 | 1.0 | ! |
| | | ssels | | | | i | 1 | • | 1 *** | 1 | 1 |
| | | soline Handling | | 10000 | | | | | • | 1 - | 199462.10 |
| | G. Tot | tal Trumsportation | 9082.7 | 20232.6 | 7101.8 | 2562.1 | 6280.2 | 14474.4 | 73574.9 | 66153.4 | 400402.10 |

| | LUTANT: Carbon Monoxide Miscellaneous Area Sources A. Forest Fires B. Agricultural, Silvicultural and Landclearing Burning C. Grove Protection D. Total Miscellaneous Grand Total | REGION: (Charlotte 7779.9 10258.0 11037.9 20129.67 | 3034.9 1787.0 50* 4871.9 | 736.6 9688.0 | 453.6 8931.0 | Hendry 1821.0 1072.0 2893.0 | 626.5 12333.0 625 13584.5 | 1214.0 714.0 | Sarasota 650.0 8549.0 5 9204.0 | TOTALS |
|-------|--|--|-----------------------------------|------------------------------|------------------------------|--------------------------------------|------------------------------------|------------------------|--|--------------------------------|
| | A. Area B. Point | 20129:67 | 25120.15 25120.15 0.00 | 17531.06 17531.06 0.00 | 11949.62 11949.62 0.00 | 9176:73 9178:73 | 28064:07 28064:07 | 75537 .68 75534 .85 | 75396:71 0.00 | 262907.64 262902.88 4.76 |
| | | () · | 4. | | | | | | | |
| | | | | , | | | | | | • |
| ער זי | | | | es : | | | • | | | |

en de la composition de la composition de la composition de la composition de la composition de la composition La composition de la composition de la composition de la composition de la composition de la composition de la

POLLUTANT: Hydrocarbon

REGION: Southwest

| | d war. | ch = 1 | m - 2 2 4 | 2000 | 03 - 4 | 77 a.m. 3 a.m.s | | | 1 | 1 | i - | |
|-----|----------------------------------|-----------|-----------|---------|---|-----------------|---------------|----------|----------|---|--------------|----|
| I. | Fuel Combustion | Charlotte | Collier | Desoto | Glades | Hendry | Highlands | Lee | Sarasota | ļ | | - |
| | A. Residential and | | | | | | 1 | ĺ | | | | 1 |
| | Institutional Fuel | | | | • | į. | | | ! | | | |
| | Coal or Coke | | | | | | | | 1 | | | |
| | a. Area | | | | | i | 1 | • | | • | į · | ļ |
| | b. Point | | | | | <i>'</i> | | | | i | | |
| | Dístillate Oil | | | | | | į. | 1 | | 1 | | |
| | a. Area | 0.92 | 1.15 | 0.66 | 0.15 | 0.50 | 1.40 | 4.09 | 6.23 | | 1 | į |
| | b. Point | | | 1 | | | 1 | | 1 | ĺ | l | 1 |
| | 3. Residual Oil | | | 1 | | | | | | | | - |
| * | a. Area | 0.08 | 0.11 | 0.04 | 0.01 | 0.04 | 0.09 | 0.31 | 0.36 | | | 1 |
| | b. Point | | | | | | | | | ĺ | | |
| | 4. Natural Gas* | | | | • | } | | { | | l | | 1 |
| | a. Area | 0.10 | 0.13 | 0.05 | 0.01 | 0.04 | 0.10 | 0.37 | 0.42 | į | | |
| | b. Point | | | , , , , | **** | | | | | 1 | | |
| | 5. Combination | 1, | | | | | İ | ĺ | 1 | , | i . | |
| | a. Area | | | | | | | | | | | |
| _ | b. Point | | | | | [| | | | 1 | | 1 |
| ဂ | B. Commercial | | | | | | | • | | | | |
| ب | 1. Distillate Oil | | | [| | | | · | | l | | |
| 166 | a. Area | 0.04 | 0.03 | 0.05 | 0.01 | 0.03 | 0.10 | 0.16 | 0.48 | (| | 1 |
| 9 | b. Point | 1 | 4,45 | | 0.01 | | | 0.15 | 0.10 | i | | |
| | 2. Residual Oil | | | | | 1 | | | | | 1 | 1 |
| • | a. Area | | | | | | 1 | | | | | |
| | b. Point | | • | | | • | | | | i | | |
| | C. Industrial Fuel | | | | | | | | | | | 1 |
| | 1. Coal or Coke | 1 | | | | į | | | - 1 | į | İ | 1. |
| | a. Area | , | | | 4 | | | | | | | |
| | b. Point | | | | | (: | 1 | | | | | |
| | 2. Distillate Oil | | | | | | | · | | | | |
| | a. Area | " | | ' | | ∤ 1 | 1 1 1 1 1 1 1 | | | | | |
| | b. Point | | | | | 4 | | | | | | |
| | 3. Residual Oil | | | . 1 | | | | | | ĺ | | |
| | a. Area | | | | | 3.1 | | | | | | |
| | b. Point | | | | | 7.1 | | l | | | 1 | 1 |
| | 4. Natural Gas | | | | * | | | | | ĺ | | 1 |
| | a. Area | | | | | | | | | • | 1 | |
| | b. Point | | | , | | 1 | | | - | į | 1 | į |
| | 5. Process Gas | | | | | | | 1 | | ! | | 1 |
| | a. Area | | | | | | į | | | | 1 | Ī |
| | | Ì | | • | | | | | | | 1. | ; |
| | b. Point | 1 | | | | 3 | 1 |) | 1 | | į | 1. |

^{*} Indistra Commondial Head

| | • | 6. Wood or a. Are b. Poi 7. Combina a. Are b. Poi D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | r Bark ea nt ttion ea nt | REGION: | Southwest Collier | | Glades | Hendry | Highlands | i Lee | Sarasota | ₽ TOTALS |
|-------|------|--|---|--|----------------------|---------|--------|--------|-----------|------------|--|--|
| | • | 6. Wood or a. Are b. Poi 7. Combina a. Are b. Poi D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | r Bark ea nt ttion ea nt | Charlotte | Collier | DeSoto | Glades | Hendry | Highlands | Lee | Sarasota | grani de se same de la comunicación de la comunicac |
| | • | 6. Wood or a. Are b. Poi 7. Combina a. Are b. Poi D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | r Bark ea nt ttion ea nt | Charlotte | Collier | DeSoto | Glades | Hendry | Highlands | Lee | Sarasota | grani de se same de la comunicación de la comunicac |
| | • | 6. Wood or a. Are b. Poi 7. Combina a. Are b. Poi D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | r Bark ea nt ttion ea nt | Charlotte | Collier | DeSoto | Glades | Hendry | Highlands | Lee | Sarasota | grani de se same de la comunicación de la comunicac |
| | • | 6. Wood or a. Are b. Poi 7. Combina a. Are b. Poi D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | r Bark ea nt ttion ea nt | Charlotte | Collier | DeSoto | Glades | Hendry | Highlands | Lee | Sarasota | TOTALS |
| | II. | a. Are b. Poi 7. Combine a. Are b. Poi D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | ea nt tion ea nt | | | | Grades | nenary | argutands | · Tes | barasota | TOTALS |
| | II. | b. Poil 7. Combina a. Are b. Poil D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | nt tion ea .nt | 1.14 | | 2.08 | · | | 1 | . 1 | | 1 |
| | II. | 7. Combina a. Are b. Poi D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | tion ea .nt | 1.14 | | | j | | 1 | | 1 1 | |
| | II. | a. Are b. Poi D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | ea .nt | 1.14 | | _ [| i | | | | | |
| | II. | D. Total Fuel Combustion Power Plants A. Coal B. Distillate C. Residual Oi | | 1.14 | | į. | - 4.1 | 1.5 | , | | | |
| | II. | Combustion Power Plants A. Coal B. Distillate C. Residual Oi | | | Τ.Δ. | 2.88 | 4.28 | 5.21 | 1.69 | 4.93 | 7.49 | 29.04 |
| | II. | A. Coal B. Distillate C. Residual Oi | | 1 1 | | 4.00 | 7.40 | 7.64 | | 333 | Contraction of the State of the | |
| | , | B. Distillate C. Residual Oi | | | . 1 | | | | | | | |
| | • | C. Residual Oi | Oil | | | | 1 | | | | | |
| | , | F1 27 m.du | .1 | 1 | | 1 | | | | 378.5 | | |
| | | D. Natural Gas E. Combination | | | | | | | 99.5 | | | |
| | | F. Total Power | Plants | | | | | | 99.5 | 378.5 | | 486.00 |
| 4.2 | III. | Process Emissio A. Chemical | ns | | | | | | | | | |
| 1 | | B. Food and Ag | riculture | | 4.22 | | | | | | | |
| C-167 | ř | C. Metallurgic | al , | [] | | | | | | | | |
| 7 | | D. Mineral E. Wood | • | 1.5 | ą. | | | | 1.46 | 0.6 | 0.78 | |
| | | F. Petroleum S | torage | | a militaria | | | 1 | | | | |
| ş | | G. Petrochemic H. Total Proce | al Operations ss Emissions | 1.5 | 4.22 | | | | | 0,6 | 0.78 | 8.56 |
| | IV. | Solid Waste Dis | posal | | 4.66 | | | | 1.46 | <u>v.o</u> | 0.78 | 8.50 |
| | | A. Incineratio | | | | , , | | | | | | |
| , | | Area Point | | 3.3 | 6.1 | 0.5 | 1.05 | 0.98 | 0.86 | 10.85 | 11.5 | |
| | | B. Open Burnin | g | | . | - | | | | | | |
| | | Area Point | | | | | | | | | | |
| | | C. Total Solid | Waste Disposal | 3.3 | 6.1 | 0.5 | 1.05 | 0.98 | 0.86 | 10.85 | 11.5 | 35.14 |
| | ٧. | Transportation A. Motor Vehic | | | | | | | | | | |
| | | 1. Gasolin | | 1729.5 | 3852.7 | 1352.3 | 487.5 | 1195.4 | 2756.2 | 11950.3 | 10745.0 | |
| * | | · 2. Diesel | | 17.9 | 40.0 | 14.0 | 5.1 | 12.4 | 28.6 | 92.3 | 83.0 | |
| | | B. Off-HighwayC. Aircraft | usage | | | . [| | | | | | i f |
| | | D. Railroads | | | į | T-rings | 1.5 | 1.7 | | 1.2 | 0.7 | ļ |
| | | E. Vessels | | 114.2 | 254.4 | 89.3 | 32.2 | 78.9 | 182.0 | 586.3 | 527.2 | 1 |
| | | F. Gasoline Ha G. Total Trans | ndling | 1861.6 | 4147.1 | 1455.6 | 526.3 | 1288.4 | 2966.8 | 12630.1 | 11355.9 | 36231 80 |
| | ** | G. TOTAL ITANS | Poteacton | | | ****** | | | | | | |
| | | | | • | | | | | | | • | • |
| | | * . | | | | • | | | | | | |

| | | | eget of the second of the seco | | Ī. | | ÷ | | | | | | ÷ |
|----------------|-----------|---|--|-----------|--|---|--|---|---------|---|--|--|---|
| - | POT VI | Miscellaneou A. Forest F B. Agricult and Land C. Grove Pro D. Total Mis | ural, Silvicultural clearing Burning | Charlotte | 662.2 357.4 12.0 1031.6 5190.44 5186.22 | DeSoto 160.7 1937.6 2098.3 3557.28 3557.28 0.00 | 99.0 1786.2 1885.2 2416.83 2416.83 | Hendry 397.3 214.4 611.7 1906.29 1906.29 0.00 | 5723,65 | 264.9 142.8 407.7 13432.68 13053.58 379.10 | Sarasota 141.8 1709.8 1.0 1852.6 13228.27 13227.49 0.78 | 12863.20 49645.74 49159.18 486.57 | |
| | | | | . 1 | | hamman managara Van Van Van Van Van Van Van Van Van Va | The Control of the Co | .he | | verser unseller bestämmte die Abenie | lancenter entre Medicile Demi | | |
| 201 168 | | · · · · · · · · · · · · · · · · · · · | | | | | | | • • | | | | |
| | | es Se de | | v s | | | | | | | | ÷ | |

| POI | LLUTANT: | Nitrogen Oxides | R | EGION: S | Southwest | · | ¥. | | | | | |
|-----|-----------------------|--|-----------|----------|--|--|--------|-----|---------------------|---|-----------------------|--|
| | Fuel Com | in was in it man | Charlotte | | Collier | | Desoto | | Glades | | Hendry | |
| | A. Resi Inst 1. | dential and itutional Fuel Coal or Coke a. Area | | | 79- | | | | | armone u.a. are a material de proposition des | | |
| | 2. | b. Point Distillate Oil a. Area | 2.70 | | 4.55 | | 2.64 | , . | 0.56 | | 1.93 | |
| | 3. | b. Point Residual Oil a. Area | 0.33 | · | 0.45 | Service Control of th | 0.15 | | 0.04 | | 0.14 | |
| | 4. | b. Point Natural Gas* a. Area | | | | | | | Windowski Landauski | | | |
| | 5. | b. Point Combination a. Area | 0.666 | | 0.92 | | 0.32 | | 0.09 | | 0.29 | |
| | B. Comm | b. Point mercial Distillate Oil | | | | | | | | | | |
| C | 2. | a. Area b. Point Residual Oil a. Area | 0.78 | • . | 0.70 | | 1.0 | | 0.15 | | 0.58 | |
| 169 | C. Indu | b. Point strial Fuel Coal or Coke | | | Agreement of the second of the | | | | · | , | | |
| | 2. | a. Area b. Point Distillate Oil a. Area | | į | | | | | ٠ | • | • | |
| ٠. | 3. | b. Point Residual Oil a. Area | | | | | - · | | | | | |
| ٠ | 4. | b. Point Natural Gas a. Area | | | | And the state of t | | | | | 61.9 | |
| | 5. | b. Point Process Gas a. Area | Tan or [| | | | | | | | | |
| | * | b. Point | | | <u> </u> | | | | | La company of the second | and the second second | |

^{*} Includes Commercial Uses

POLLUTANT: Nitrogen Oxides

REGION: Southwest

| A. Residential and Institutional Fuel 1. Coal or Coke a. Area b. Point 2. Distillate oil a. Area b. Point 3. Residual Oil a. Area b. Point 4. Natural Gas* a. Area b. Point 5. Combination a. Area b. Point 5. Combination a. Area b. Point 6. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 8. Commercial 1. Distillate Oil a. Area b. Point 7. Residual Oil a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Combination a. Area b. Point 7. Residual Oil a. Area a. Area b. Point 7. Residual Oil a. Area a. A | FOL | no TV | NT: NICIOGEN OXIGES | - | EGION: SO | 7 | · - *********************************** | | 1 | 1 | 1 | 1 | i |
|--|-----|-------|---------------------|-----------|-----------|-------|---|----------|----|---|---|---|-----|
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| Institutional Fuel 1. Coal or Coke a. Area b. Point 2. Distillate Oil a. Area b. Point 3. Residual Oil a. Area b. Point 4. Natural Gas* a. Area b. Point 5. Combercial 1. Distillate Oil a. Area b. Point B. Commercial 1. Distillate Oil a. Area b. Point 2. Residual Oil a. Area b. Point 2. Residual Oil a. Area b. Point 3. Residual Oil a. Area b. Point 4. Natural Gas b. Point 5. Combercial 1. Distillate Oil a. Area b. Point 3. Residual Oil a. Area b. Point 4. Natural Gas a. Area b. Point 4. Natural Gas a. Area b. Point 4. Natural Gas a. Area b. Point 4. Natural Gas a. Area b. Point 5. Process Gas a. Area b. Point 5. Process Gas a. Area b. Point 5. Process Gas a. Area b. Point 5. Process Gas a. Area b. Point 5. Process Gas a. Area b. Point 5. Process Gas a. Area | | | | | | | - | ż | | | | | |
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| b. Point 4. Natural Gas a. Area b. Point 5. Process Gas a. Area | | | | 4.5 | 1 | 1 | | | | | 1 | • | |
| 4. Natural Gas a. Area b. Point 5. Process Gas a. Area | | | | | Ì | | | | 1 | | | | l |
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| h. Point | | | | | | | | | | | | | |
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^{*} Includes Commercial Uses

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| | | 6. | Mond on Danie | | : Southw | | | 1 | , | <u> </u> | and a standing | | •••• ••• |
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| , | | | wood or Bark a. Area | | | | | 10.04 | , | į · | · | | |
| | | | b. Point | | *** | | 1 | | | | . * . | | |
| | ć . | 7. | Combination a. Area | 100 | | | | | ٠ | l. s | | | |
| | • | | b. Point | | | | | , | 1 | 304.6 | | 306.7 | - |
| | D. | | l Fuel | 4.47 | | 6,62 | | 14.15 | | 305.44 | | 371.54 | |
| TT. | Powe | | | | ļ | 1 | | | | | | | |
| | A. | Coa1 | | * | * | 1 ×1 | | | | | 1 . | | |
| | В. | Dist | illate Oil | | , , | | | | i . | | | | |
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| | E. | Comb | ination | | | ļ, | | | | grada kanan dalam en | | | Personal |
| r. | F. | Tota | 1 Power Plants | | | | | | | | | | <u> </u> |
| | A. | Chen | ical | | | | | | | | | | |
| | B. | Food | and Agriculture | | | ř i | | 84.44 | • • | | | | |
| 1 | C. | Meta | llurgical | 30.3 | | | | , | | | | | |
| | E. | Wood | | 29.3 | | 3,3 | | | | | | | |
| | P. | Petr | oleum Storage | | | | | | | | | | |
| | H. | Tota | 1 Process Emissions | 29.3 | | 3.3 | | 84.44 | | , | | | mar. 11.50 |
| V | Soli | .đ Wa | ste Disposal | | | | : | | | | | | Spinister or section |
| | A. | Inci | neration | 1.6 | | 2.9 | | 0.23 | | 0.5 | | 0.46 | |
| | | 2. | Point | | . 1. | | | U, £3 | | 0.3 | | U.46 | |
| | В. | Open | Burning | | | | | | | - | • | | |
| | | | | | | | | | | | | | |
| | c. | Tota | 1 Solid Waste Disposa | 1.6 | | 2.9 | | 0.23 | TO LEADING COMMENTS STATE AND AND ASSESSED TO SEE | 0.5 | was not reported the party of the state of t | 0.46 | - |
| V. | Tran | spor | tation | | | | | | | - | | | |
| | n. | 1. | Gasoline | 1571.8 | | 3501.3 | | 1229.0 | | 443.0 | | 1005 0 | |
| | | 2. | Diesel | 104.9 | | 233.9 | | 82.0 | | 29.6 | | 72.6 | |
| | | - 1 | | ~ | | | | | | | | | |
| | D. | Rail | roads | | | | | | | 2 2 | | 26 | <i>.</i> . |
| | E. | Vess | els | | ni yang | | | | | ۵.۵ | | 4.0 | |
| | F. | Gaso | line Handling | 1676 7 | <u></u> | 2725 2 | | 1311 0 | | 454 | | | - |
| | J. | 1000 | t transforcation | 1 44,44, | <u>.</u> | 12/33.6 | | | | 4/4.8 | | 1161.20 | - |
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| | II. | II. Power A. B. C. D. B. C. M. Soli A. B. C. Tran | Comb II. Power PI A. Coal B. Dist C. Resi D. Natu E. Comb F. Tota II. Process A. Chem B. Food C. Meta D. Mine E. Wood F. Petr H. Tota V. Solid Wai A. Inci 1. 2. B. Open 1. C. Tota V. Transpor A. Moto 1. E. Vess F. Gaso | Combustion II. Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants II. Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petroleum Storage G. Petrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposa V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling | Combustion II. Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants II. Process Emissions A. Chemical B. 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Total Solid Waste Disposal V. Transportation A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Aircraft D. Railroads E. Vessels F. Gasoline Handling F. Gasoline Handling C. Sesoline Handling C. Rasoline Handling C. Sesoline C. Sesoline Handling C. Sesoline C. Sesoline C. Sesoline Handling C. Sesoline C. S | Combustion I. Power Plants A. Coal B. Distillate Oil C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants I. Process Emissions A. Chemical B. Food and Agriculture C. Metallurgical D. Mineral E. Wood F. Petrochemical Operations H. Total Process Emissions V. Solid Waste Disposal A. Incineration 1. Area 2. Point B. Open Burning 1. Area 2. Point C. Total Solid Waste Disposal A. Motor Vehicles 1. Gasoline 2. Diesel B. Off-Highway Usage C. Alreraft D. Railroads E. Vessels F. Gasoline Handling F. | Combustion I. Power Plants A. Coal B. Distillate 0il C. Residual Oil D. Natural Gas E. Combination F. Total Power Plants II. Process Emissions A. Chemical B. 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| • | POL | LUTANT: Nitrogen Oxides | REGION: | Southwes | t | • . | | | | | | |
| | | | Highlands | | Lee | | Sarasota | | TOTALS | | | I. |
| | | 6. Wood or Bark | | ÷ | | | | | | | - | |
| | , | a. Area b. Point | | | | | | | ^ | | | |
| | | 7. Combination | | | | | | | | | | |
| | | a. Area | | | | | | | į | | | |
| | •• | b. Point | | | | | | | | | | 1 |
| | | D. Total Fuel | 13.14 | ************************************** | 21.5 | | 28.66 | | 765.52 | | | |
| | . . | Combustion | | , | | | | | | | | |
| | A.L. | Power Plants A. Coal | | | | | 9 | | | | | |
| | | B. Distillate Oil | | , | | | | | | | | |
| | | C. Residual Oil | 1 | | 18 7 | | | | | | | |
| | | D. Natural Gas | 1 2220 0 | | | | | | | | | |
| | | E. Combination | 1330.0 | · · · · · · · · · · · · · · · · · · · | 7947.9 7947.9 | | | | | | | + |
| | *** | F. Total Power Plants Process Emissions | 1330.0 | | /34/.3 | | | | 9277.90 | - | the state of the s | - |
| | 777. | A. Chemical | | | | | | | | | · '. | |
| | _ | B. Food and Agriculture | | | | | | | | | | |
| | | C. Metallurgical | l· . | | * | | | | | | - | |
| | | D. Mineral | 37.75 | | 11.7 | | 15.6 | | | | | |
| _ | | E. Wood | | | | | | | · | | | 1 |
| | | F. Petroleum Storage G. Petrochemical Operations | | | | | | . • | | | | 1 |
| | | H. Total Process Emissions | 37.75 | | 11.7 | | 15.6 | , | 182.09 | | | |
| 77 | IV. | Solid Waste Disposal | | · | | | | Bergeria de la Companya de la Companya de la Companya de la Companya de la Companya de la Companya de la Compa | | | | 1 |
| • | | A. Incineration | | | · | | | | | | | |
| | , . | 1. Area | 0.4 | • | 5.14 | | 5.4 | • | | | Į. | 1 |
| | • | 2. Point B. Open Burning | | | | | | | - | | | |
| | • | 1. Area | A. | | | | | | | | | |
| | | 2. Point | | | | | | *************************************** | | | | 1 |
| | | C. Total Solid Waste Disposal | 0.4 | | 5.14 | | 5.4 | | 16.53 | | | |
| | v. | Transportation | | | | | | | · | | त्रात्त्रकारमञ्जूषात्रकारम् । स्टब्स्ट्रिकेट | T |
| | | A. Motor Vehicles | 2504.8 | | 6924.5 | | 6226.3 | | ļ · | | | 1 |
| | | l. Gasoline2. Diesel | 167.4 | | 539.4 | * * | 6226.1 485.0 | | | | | |
| | | B. Off-Highway Usage | | | ~37.4 | | 703.0 | | | | | 1 |
| ٨ | : | C. Aircraft | | | | | 1 | | . , | 1 | | 1 |
| | | D. Railroads | 1 | | 1.8 | , | 1.1 | •. | | | | 1 |
| | | E. Vessels | 1 | ! | | | | | 1 | 1 | | ŧ |
| | | F. Gasoline Handling | | | | | | | 24209.00 | | | 1_ |
| | | G. Total Transportation | 2672.2 | | 7465.7 | <u> </u> | 6712.2 | | 24207.00 | 1 | | 1 |

| P |
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| POILUTANT: Nitrogen Oxides VI Miscellaneous Area Sources A. Forest Fires | REGION: Southwest Charlotte 28.4 | Collier | Desoto 26.8 | Glades | Hendry |
|---|----------------------------------|-------------------------------|---------------------------|--------------------------|-----------------------------|
| B. Agricultural, Silvicultura and Landclearing Burning C. Grove Protection D. Total Miscellaneous 'II Grand Total | 205.2 233.6 1945.67 | 35.7 8 154.1 2902.12 | 193.8 220.6 1630,42 | 178.6 195.1 975.84 | 66.2 21.4 |
| A. Area B. Point | 1916.57 29.30 | 2898.82 3.30 | 1545.98 88.44 | 671.24 304.60 | 1620.8 1252.20 368.60 |
| ? | • • • | | • | | |
| | | | • | | |

| | POLLUTANT: Nitrogen Oxides | REGION: Southwest | | | | |
|----|---|-------------------|---------------|----------|----------|---|
| | | Highlands | _ Lee | Sarasota | TOTALS | |
| | VI Miscellaneous Area Sources A. Forest Fires | | | | | |
| | B. Agricultural, Silvicultural | 22.8 246.7 | 44.1 14.28 | 23.6 | | |
| | and Landelearing Burning | 2-30. | 14.20 | 171.0 | | |
| | C. Grove Protection | 107 | | 0.8 | | |
| | D. Total Miscellaneous | 3/6.5 | 58.38 | 195.4 | 1521.28 | |
| V. | II Grand Total | 4429.99 | 15510.32 | 6957.26 | 35972.42 | |
| | A. Area | 3987:24 | 7550.72 | 6941.66 | 25839.23 | 7 |
| | B. Point | 1367.75 | 7959.60 | 15.60 | 10133.19 | |

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