



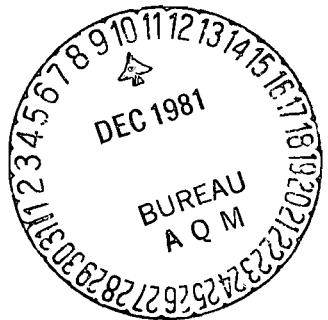
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

DEC 4 1981

REF: 4AW-AF



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Alexander L. Fanjul
Vice President
Osceola Farms Company
P.O. Box 679
Pahokee, Florida 33476

Re: PSD-FL-080

Dear Mr. Fanjul:

Review of your May 29, 1981, application to construct a new bagasse/fuel oil boiler at your facility near Pahokee, Palm Beach County, Florida, has been completed. The construction is subject to rules for the Prevention of Significant Air Quality Deterioration (PSD) contained in 40 CFR 52.21. The Florida Bureau of Air Quality Management performed the preliminary determination concerning the proposed construction and published a request for public comment on September 29, 1981. Comments were submitted by your company and the US EPA.

Authority to construct a stationary source is hereby granted for the facility described above, subject to the conditions in the permit to construct (enclosed). This authority to construct is based solely on the requirements of 40 CFR 52.21, the federal regulations governing significant deterioration of air quality. It does not apply to other permits issued by this agency or by other agencies. The complete analysis which justifies this approval has been fully documented for future reference, if necessary. Please be advised that a violation of any condition issued as part of this approval, as well as any construction which proceeds in material variance with information submitted in your application, will be subject to enforcement action.

This final permitting decision is subject to appeal under 40 CFR 124.19 by petitioning the Administrator of the US EPA within 30 days after receipt of this letter of approval to construct. The petitioner must submit a statement of reasons for the appeal and the Administrator must decide on the petition within a reasonable time period. If the petition is denied, the permit becomes immediately effective. The petitioner may then seek judicial review.

Any questions concerning this approval may be directed to Dr. Kent Williams, Chief, New Source Review Section at (404) 881-4552.

Sincerely yours,


Charles R. Jeter
Regional Administrator



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 REGION IV
 345 COURTLAND STREET
 ATLANTA, GEORGIA 30365

PERMIT TO CONSTRUCT UNDER THE RULES FOR THE
 PREVENTION OF SIGNIFICANT DETERIORATION OF AIR QUALITY

Pursuant to and in accordance with the provisions of Part C, Subpart 1 of the Clear Air Act, as amended, 42 U.S.C. § 7470 et seq., and the regulations promulgated thereunder at 40 C.F.R. § 52.21, as amended at 45 Fed. Reg. 52676, 52735-41 (August 7, 1980),

Osceola Farms Company
 P.O. Box 679
 Belle Glade, Florida 33476

is hereby authorized to construct/modify a stationary source at the following location:

Osceola Farms Company's existing plant
 located Northeast of Pahokee

UTM Coordinates: 544.2 E, 42968.0 N

Upon completion of this authorized construction and commencement of operation/production, this stationary source shall be operated in accordance with the emission limitations, sampling requirements, monitoring requirements, and other conditions set forth in the attached Specific Conditions (Part I) and General Conditions (Part II).

This permit shall become effective on Dec. 4, 1981

If construction does not commence within 18 months after the effective date of this permit, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time this permit shall expire and authorization to construct shall become invalid.

This authorization to construct/modify shall not relieve the owner or operator of the responsibility to comply fully with all applicable provisions of Federal, State, and Local law.

Dec. 4, 1981
 Date Signed

Charles R. Lister
 Regional Administrator

APPLICANT: Osceola Farms Company

SPECIFIC CONDITIONS:

1. The proposed boiler shall be constructed in accordance with the capacities and specifications stated in the application and additional information supplied by the applicant, including an increase to 90 feet for the proposed boiler stack height.
2. The proposed boiler's maximum emission rates shall not exceed the emission limits listed below.

<u>Pollutant</u>	<u>Maximum Allowable Emissions</u>	
	<u>lb/hr</u>	<u>ton/yr</u>
PM	44.3	81.1
SO ₂	150.9	311.5
CO	73.3	151.4
VOC	73.3	151.4
NO _x	50.3	103.8

Visible Emissions: 30% opacity except for 40% no more than two minutes per hour.

3. OFC shall meter daily oil consumption by existing units and proposed unit No. 6, separately. The total quantity of fuel oil consumed on a daily basis by unit 6 shall be replaced by the addition to the system of an equal or greater amount of 1.0 percent or less sulfur fuel oil within 72 hours (excluding weekends). Sulfur content of the fuel oil purchased for existing units 2, 4, and 5 shall not exceed 2.4 percent. Records shall be retained for two years. Operating permits for units 2, 4, and 5 shall be amended to reflect burning of the blended oil. The total fuel oil consumption for all existing and proposed boilers shall not exceed 10,000 gallons on a daily basis.
4. Emissions of VOC and CO shall be maintained at the lowest possible level through good combustion control. A flue gas oxygen or CO₂ monitor shall be installed.
5. The boiler shall not be operated more than 172 days per year during the season from October to March.
6. Compliance with the emission limits required in condition No. 2 shall be determined by performance tests while the boiler is at or close to full operating capacity. The performance tests shall be conducted in accordance with EPA reference methods (40 CFR 60, Appendix A) and the provisions of 40 CFR 60.8 and 40 CFR 60.46. EPA reference method 25 shall be used to determine VOC emissions. The boiler efficiency will be established during compliance tests.

APPLICANT: Osceola Farms Company

7. Visible emissions from the bagasse handling system shall not exceed 10 percent opacity over any 6-minute period as measured by EPA reference method 9.
8. The scrubber shall be equipped with a manometer or equivalent instrument to measure the total pressure drop of the flue gas stream across the scrubber, with pressure gauges to measure the water pressure at the spray nozzles, with a flow meter or equivalent device (weir) to measure the quantity of water circulating through the scrubber. The pH of scrubber water at the scrubber inlet and outlet shall be measured. Data from these instruments shall be recorded each shift (every 8 hours) and available for regulatory agencies inspection for two years.
9. The stack sampling configuration of the proposed boiler shall comply with the minimum of 2D downstream and 0.5D upstream distances to the sampling ports required to use reference method 2.
10. The quantity of 99.9 tons per year of VOC emissions is hereby assigned to the boiler from the new source allowance balance for Palm Beach County pursuant to §17-2.17(7)(a) and (d). At such time as the LAER determination for this boiler is revised, based on data acquired under Specific Condition #6, any VOC emission allowance not required shall revert to Palm Beach County available new source allowance.
11. Boiler No. 1 shall be put in a normal standby condition, while all of the other boilers are in operation. Boiler No. 1 can be operated to produce steam when one of the other boilers is not operating.
12. Before construction permit is issued for the new boiler, the operating permit of boiler #1 shall be revised to reflect that 41.0 tons per year VOC emissions are assigned to boiler #6 as emission offsets. The assignment shall be effective as soon as operating permit is issued to boiler #6.

GENERAL CONDITIONS

1. The permittee shall notify the permitting authority in writing of the beginning of construction of the permitted source within 30 days of such action and the estimated date of start-up of operation.
2. The permittee shall notify the permitting authority in writing of the actual start-up of the permitted source within 30 days of such action and the estimated date of demonstration of compliance as required in the specific conditions.
3. Each emission point for which an emission test method is established in this permit shall be tested in order to determine compliance with the emission limitations contained herein within sixty (60) days of achieving the maximum production rate, but in no event later than 180 days after initial start-up of the permitted source. The permittee shall notify the permitting authority of the scheduled date of compliance testing at least thirty (30) days in advance of such test. Compliance test results shall be submitted to the permitting authority within forty-five (45) days after the complete testing. The permittee shall provide (1) sampling ports adequate for test methods applicable to such facility, (2) safe sampling platforms, (3) safe access to sampling platforms, and (4) utilities for sampling and testing equipment.
4. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
5. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall provide the permitting authority with the following information in writing within five (5) days of such conditions:
 - (a) description of noncomplying emission(s),
 - (b) cause of noncompliance,
 - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,
 - (d) steps taken by the permittee to reduce and eliminate the noncomplying emission,

and

 - (e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of this report does not constitute a waiver of the emission limitations contained within this permit.

6. Any change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that will result in new or increased emissions must be reported to the permitting authority. If appropriate, modifications to the permit may then be made by the permitting authority to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein.
7. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit by letter and forward a copy of such letter to the permitting authority.
8. The permittee shall allow representatives of the State environmental control agency or representatives of the Environmental Protection Agency, upon the presentation of credentials:
 - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
 - (b) to have access to any copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Act;
 - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;
 - (d) to sample at reasonable times any emission of pollutants; and
 - (e) to perform at reasonable times an operation and maintenance inspection of the permitted source.
9. All correspondence required to be submitted by this permit to the permitting agency shall be mailed to:

Chief, Air Facilities Branch
Air and Waste Management Division
U. S. Environmental Protection Agency
Region IV
345 Courtland Street
Atlanta, Georgia 30365

10. The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

The emission of any pollutant more frequently or at a level in excess of that authorized by this permit constitutes a violation of the terms and conditions of this permit.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

NOV 13 1981

REF: 4AH-AF

B6b

Mr. C. H. Fancy, Deputy Chief
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

Re: PSD-FL-080 Osceola Farms Pahokee, Florida Prevention of
Significant Deterioration - Preliminary Determination

Dear Mr. Fancy:

We have reviewed the subject report and concur with your determination of approval to construct. However, we feel that an opacity limit should be included in the permit for bagasse boiler No 5, "30% opacity, except 40% opacity is permissible for not more than 2 minutes in any one hour", for clarity and consistency with the State Implementation Plan for carbonaceous fuel boilers.

Any questions, comments, or developments concerning this project should be directed to Michael Brandon of my staff at (404) 881-4552.

Sincerely yours,

Tommie A. Gibbs

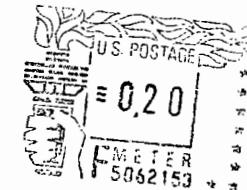
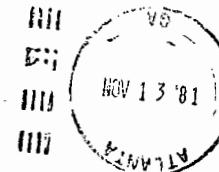
Tommie A. Gibbs, Chief
Air Facilities Branch



**UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION IV
345 COURTLAND STREET
ATLANTA, GEORGIA 30365**

**OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300**

Mr. C. H. Fancy, Deputy Chief
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32301



OSCEOLA FARMS CO.

RAW SUGAR FACTORY

INTERSECTION U.S. 98 & HATTON HWY.

TELEPHONE:
(305) 924-7156

POST OFFICE BOX 679
PAHOKEE, FLORIDA 33476

CABLE: SUGAR

October 28, 1981

Florida Dept. of Env. Reg.
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Fl. 32301

Attn: Mr. C.H. Fancy, P.E. Deputy Chief
Bureau of Air Quality Management

RE: Osceola Farms Co. - Boiler # 6
Air Construction Permit Application
AC50-43777, PSD-FL-080

Dear Mr. Fancy:

This is in reply to your September letter, received by us on September 25, 1981, enclosing a copy of the Preliminary Determination for both State and Federal permits regarding the referenced application.

After reviewing the proposed permit conditions, we find that we have problems with some of them and have discussed this matter by telephone with Mr. Bill Thomas on October 19 and 23, 1981. Mr. Thomas has sent us a copy of some revisions of these conditions which have been made after consultation with the other two sugar mill permit applicants, who have some of the same problems as ours.

Below we are listing the items in which we are requesting revisions and have incorporated in our comments the revisions which were sent to us by Mr. Thomas.

Specific Conditions:

2. Our calculations for maximum allowable particulate emissions for 137 days operation show 44.3 lbs./hr. and 72.8 tons/yr., based on the BACT limitation of $0.15 \text{ lb./}10^6 \text{ BTU}$ heat input.

PSD-FL-080

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

MEMORANDUM

TO: Michael Martin, Palm Beach County Health Department
Mirza Baig, FDER, South Florida District

FROM: C. H. Fancy

DATE: September 21, 1981

SUBJ: Preliminary Determination - Osceola Farms Company,
Proposed New Bagasse/Fuel Oil Boiler (AC 50-43777,
PSD-FL-080)

Please find enclosed one copy of the Preliminary Determination, application and related materials for Osceola Farms' proposed bagasse boiler in Belle Glade, Palm Beach County, Florida.

The information must be available for public inspection for 30 days from the date of public notice, which will appear in the Palm Beach Post in the near future.

Should you have any questions, please call Bill Thomas or myself.

CF:caa

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September , 1981

Mr. T. Michael Taimi, Chief
Consolidated Permits Branch
EPA Region IV
345 Courtland Street N.E.
Atlanta, Georgia 30365

RE: Preliminary Determination - Osceola Farms Company,
Proposed New Bagasse Boiler (PSD-FL-080)

Dear Mr. Taimi:

Enclosed for your review and comment are the Public Notice and Preliminary Determination for Osceola Farms Company's proposed construction of a new bagasse/fuel oil boiler at their facility near Pahokee, Palm Beach County, Florida. The public notice will appear in a local newspaper, the Palm Beach Post, in the near future.

Please inform my office if you have comments or questions regarding this determination, at (904) 488-1344.

Sincerely,

C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September , 1981

Phyllis Lilley
Municipal Library
530 South Main Street
Belle Glade, Florida 33430

Dear Ms. Lilley:

As we have in the past, we need to make the enclosed information available for public inspection, pursuant to Federal Prevention of Significant Deterioration Regulations 40-CFR 52.21, Paragraph (q). A notice directing people to the library will be published in the West Palm Beach Post in the near future.

The information must be available upon request for a period of at least 30 days from the notice date. At the end of the period, we will forward to you, a Final Determination on the permit application which must be available for an additional 30 days.

We appreciate your help in providing this valuable public service. Should you have any questions, please call me at (904) 488-1344.

Sincerely,

C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September , 1981

Ms. Carolyn Dekle
State A-95 Coordinator
Office of Planning and Budget
The Capitol
Tallahassee, Florida 32301

RE: Preliminary Determination - Osceola Farms Company,
Proposed Bagasse/Fuel Oil Boiler (PSD-FL-080)

Dear Ms. Dekle:

I wish to bring to your attention that Osceola Farms Company proposes to construct a bagasse/fuel oil fired boiler at their facility northeast of Pahokee, Palm Beach County, Florida, and that emissions of air pollutants will thereby be increased. The Florida Department of Environmental Regulation, under the authority delegated by the U.S. Environmental Protection Agency, has reviewed the proposed construction under Federal Prevention of Significant Deterioration Regulations (40 CFR 52.21) and reached a preliminary determination of approval, with conditions, for this construction. This approval applies only to Federal regulatory requirements and has no bearing on other State or local functions.

Please also be aware that the attached Public Notice announcing the preliminary determination, the availability of pertinent information for public scrutiny and the opportunity for public comment will be published in a local newspaper, the Palm Beach Post, in the near future. This notice has been mailed to you for your information and in accordance with regulatory requirements. You need take no action unless you wish to comment on the proposed construction.

If you have any questions, please feel free to call Mr. Bill Thomas or myself at (904) 488-1344.

Sincerely,

C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September , 1981

Mr. Max Osceola
Superintendent of Seminole Agency
Bureau of Indian Affairs
Department of the Interior
6075 Sterling Road
Hollywood, Florida 33024

RE: Preliminary Determination - Osceola Farms Company,
Proposed Bagasse/Fuel Oil Boiler (PSD-FL-080)

Dear Mr. Osceola:

I wish to bring to your attention that Osceola Farms Company proposes to construct a bagasse/fuel oil fired boiler at their facility northeast of Pahokee, Palm Beach County, Florida, and that emissions of air pollutants will thereby be increased. The Florida Department of Environmental Regulation, under the authority delegated by the U.S. Environmental Protection Agency, has reviewed the proposed construction under Federal Prevention of Significant Deterioration Regulations (40 CFR 52.21) and reached a preliminary determination of approval, with conditions, for this construction. This approval applies only to Federal regulatory requirements and has no bearing on other State or local functions.

Please also be aware that the attached Public Notice announcing the preliminary determination, the availability of pertinent information for public scrutiny and the opportunity for public comment will be published in a local newspaper, the Palm Beach Post, in the near future. This notice has been mailed to you for your information and in accordance with regulatory requirements. You need take no action unless you wish to comment on the proposed construction.

If you have any questions, please feel free to call Mr. Bill Thomas or myself at (904) 488-1344.

Sincerely,

C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September , 1981

Sam Shannon, Executive Director
Treasure Coast Regional Planning Council
P.O. Box 2395
Stuart, Florida 33494

RE: Preliminary Determination - Osceola Farms Company,
Proposed Bagasse/Fuel Oil Boiler (PSD-FL-080)

Dear Mr. Shannon:

I wish to bring to your attention that Osceola Farms Company proposes to construct a bagasse/fuel oil fired boiler at their facility northeast of Pahokee, Palm Beach County, Florida, and that emissions of air pollutants will thereby be increased. The Florida Department of Environmental Regulation, under the authority delegated by the U.S. Environmental Protection Agency, has reviewed the proposed construction under Federal Prevention of Significant Deterioration Regulations (40 CFR 52.21) and reached a preliminary determination of approval, with conditions, for this construction. This approval applies only to Federal regulatory requirements and has no bearing on other State or local functions.

Please also be aware that the attached Public Notice announcing the preliminary determination, the availability of pertinent information for public scrutiny and the opportunity for public comment will be published in a local newspaper, the Palm Beach Post, in the near future. This notice has been mailed to you for your information and in accordance with regulatory requirements. You need take no action unless you wish to comment on the proposed construction.

If you have any questions, please feel free to call Mr. Bill Thomas or myself at (904) 488-1344.

Sincerely,

C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September , 1981

John Sansburg
County Administrator
Palm Beach County Board of County Commissioners
P.O. Box 1989
West Palm Beach, Florida 33402

RE: Preliminary Determination - Osceola Farms Company,
Proposed Bagasse/Fuel Oil Boiler (PSD-FL-080)

Dear Mr. Sansburg:

I wish to bring to your attention that Osceola Farms Company proposes to construct a bagasse/fuel oil fired boiler at their facility northeast of Pahokee, Palm Beach County, Florida, and that emissions of air pollutants will thereby be increased. The Florida Department of Environmental Regulation, under the authority delegated by the U.S. Environmental Protection Agency, has reviewed the proposed construction under Federal Prevention of Significant Deterioration Regulations (40 CFR 52.21) and reached a preliminary determination of approval, with conditions, for this construction. This approval applies only to Federal regulatory requirements and has no bearing on other State or local functions.

Please also be aware that the attached Public Notice announcing the preliminary determination, the availability of pertinent information for public scrutiny and the opportunity for public comment will be published in a local newspaper, the Palm Beach Post, in the near future. This notice has been mailed to you for your information and in accordance with regulatory requirements. You need take no action unless you wish to comment on the proposed construction.

If you have any questions, please feel free to call Mr. Bill Thomas or myself at (904) 488-1344.

Sincerely,

C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September , 1981

Mayor Noma Norman
171 North Lake Avenue
Pahokee, Florida 33476

RE: Preliminary Determination - Osceola Farms Company,
Proposed Bagasse/Fuel Oil Boiler (PSD-FL-080)

Dear Mayor:

I wish to bring to your attention that Osceola Farms Company proposes to construct a bagasse/fuel oil fired boiler at their facility northeast of Pahokee, Palm Beach County, Florida, and that emissions of air pollutants will thereby be increased. The Florida Department of Environmental Regulation, under the authority delegated by the U.S. Environmental Protection Agency, has reviewed the proposed construction under Federal Prevention of Significant Deterioration Regulations (40 CFR 52.21) and reached a preliminary determination of approval, with conditions, for this construction. This approval applies only to Federal regulatory requirements and has no bearing on other State or local functions.

Please also be aware that the attached Public Notice announcing the preliminary determination, the availability of pertinent information for public scrutiny and the opportunity for public comment will be published in a local newspaper, the Palm Beach Post, in the near future. This notice has been mailed to you for your information and in accordance with regulatory requirements. You need take no action unless you wish to comment on the proposed construction.

If you have any questions, please feel free to call Mr. Bill Thomas or myself at (904) 488-1344.

Sincerely,

C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

September , 1981

Mr. Alexander L. Fanjul
Vice President
Osceola Farms Company
P.O. Box 679
Pahokee, Florida 33430

RE: Preliminary Determination - Proposed Construction of New
Bagasse/Fuel Oil Boiler (AC50-43777, PSD-FL-080)

Dear Mr. Fanjul:

Please find enclosed one copy of the Preliminary Determination for both State and Federal air construction permit applications as referenced.

A public notice will appear in a local newspaper, the Palm Beach Post, in the near future. A copy of the Preliminary Determination and your application will be open to public review and comment for a period of 30 days. The public can also request a public hearing to review and discuss specific issues. At the end of this period, the Department will evaluate the comments received and make a final determination regarding the proposed construction.

Should you have any questions regarding this information, please contact Mr. Bill Thomas at (904) 488-1344.

Sincerely,

C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

cc: Frank S. Kleeman
Mercer Fearington

TO: Fla. Dept. of Env. Reg.
Page Two

FROM: Osceola Farms Co.
October 28, 1981

Based on our right to seek revision of this up to 0.20 lb./ 10^6 BTU, the allowable emission figures could be increased up to 59 lbs/hr. and 97 tons/yr. Visible emissions: 30% opacity except 40% no more than 2 minutes per hour.

15-20 Oct

5. The boiler shall not be operated more than 137 days during ~~the 1981-82 grinding operation.~~

6. We feel that the 55% efficiency presently used in calculating heat input is a true representation of the actual efficiency of bagasse boilers and is more reliable than the calculations which are proposed.

7. Visible emissions from bagasse handling equipment: shall not exceed 10% opacity over any 6 minute period.

8. We can meter the oil consumption to boiler # 6 but find it impractical to determine the oil consumption to the other boilers other than as a group.

9. Total fuel oil consumption in boilers 1,2,3,4,5 and the proposed boiler shall not exceed 10,000 gallons per day, during ~~normal operation.~~

10. The scrubber shall be equipped with a manometer or equivalent instrument to measure the total pressure drop of the flue gas stream across the scrubber, with pressure gauges to measure the water pressure at the spray nozzles, with a flow meter of equivalent device (Weir) to measure the quantity of water circulating through the scrubber. The ph of the scrubber water at the scrubber inlet and outlet shall be measured. Data from these instruments shall be recorded each shift (every 8 hours) and available for regulatory agencies inspection for one year.

15. Boiler # 1 shall be put in a normal standby condition, while all of the other boilers are in operation. Boiler # 1 can be operated only when one of the other boilers is not operating.

I thank you and your staff for the help and cooperation extended us in the expediting of Boiler # 6 permit.

Very truly yours,

OSCEOLA FARMS CO.

Alexander L. Fanjul
Vice President and
Manager

OSCEOLA FARMS CO.

RAW SUGAR FACTORY

INTERSECTION U. S. 98 & HATTON HWY.

TELEPHONE:
(305) 924-7156

CABLE: SUGAR

POST OFFICE BOX 679
PAHOKEE, FLORIDA 33476

October 7, 1981

Tim

Mr. C.H. Fancy, Deputy Chief
Bureau of Air Quality Management
Fla. Dept. of Environmental Reg.
Twin Towers Office Building
Room 616
2600 Blairstone Road
Tallahassee, Florida 32301



RE: Osceola Farms Co. - Pahokee
Bagasse Boiler # 6 - Construction Permit Application

Dear Mr Fancy:

Attached is a copy of the Proof of Publications of
the Public Notice # 678951 which was run in the local
Palm Beach Newspaper.

Please let me know if there is anything else that
you need with regard to this.

Very truly yours,

OSCEOLA FARMS CO.

Oscar Hernandez

Oscar F. Hernandez
Asst. Manager

OFH/io
Encl.

THE POST

Published Daily and Sunday
West Palm Beach, Palm Beach County, Florida

PROOF OF PUBLICATION

STATE OF FLORIDA COUNTY OF PALM BEACH

Before the undersigned authority personally appeared Don K. Creamer, who on oath says that he is Class. Adv. Mgr. of The Post, a daily and Sunday newspaper published at West Palm Beach in Palm Beach County, Florida; that the attached copy of advertising, being a Notice in the matter of Proposed Modification in the Court, was published in said newspaper in the issues of September 26, 1981.

Affiant further says that the said The Post is a newspaper published at West Palm Beach, in said Palm Beach County, Florida, and that the said newspaper has heretofore been continuously published in said Palm Beach County, Florida, daily and Sunday and has been entered as second class mail matter at the post office in West Palm Beach, in said Palm Beach County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Sworn to and subscribed before me this 28 day of September, A.D. 1981

Bethune M. McLeod
NOTARY PUBLIC STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES SEPT 9 1983
BOSTON INSURANCE GENERAL INS. UNDERWRITERS

NO. 678851
Public Notice

A modification to an existing air pollution source is being proposed by Osceola Farms Company near the city of Bryant, Palm Beach County, Florida. The proposed modification is the construction of a bagasse/fuel oil fired boiler with 150,000 pounds of steam per hour capacity. The modification will increase emissions of air pollutants, in tons per year, by the following amounts:

PM	SO ₂	NO _x	CO	VOC
27.8	181.9	57.7	79.6	79.6

The proposed modification has been reviewed by the Florida Department of Environmental Regulation under Chapter 403, Florida Statutes, and, Federal regulation 40 CFR 52.21, Prevention of Significant Degradation (PSD). The Department has made a preliminary determination that the construction can be approved provided certain conditions are met. A summary of the basis for the determination and the application for State and Federal permits submitted by Osceola Farms Company are available for public review at the following offices:

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530 South Main Street
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South Florida District
Dept. of Environmental Regulation
226 Bay Street
Fort Myers, Florida 33901
Health and Rehabilitative Services
Palm Beach County Health Department
West Palm Beach, Florida 33402
Bureau of Air Quality Management
Dept. of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

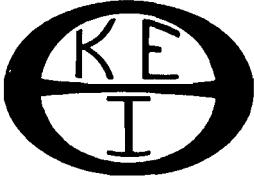
The maximum percentages of allowable PSD increments consumed by the proposed modification will be as follows:

Annual	24-Hour	3-Hour
PM 16	51	NA
SO ₂ 55	85	81

Any person may submit written comments regarding the proposed modification. All comments, postmarked not later than 30 days from the date of this notice, will be considered in making a final determination regarding approval for construction of this source. Those comments will be made available for public review on request. Furthermore, a public hearing can be requested by any person. Such request should be submitted within 15 days of the date of this notice. Letters should be addressed to:

Mr. C. H. Fancy
Department of Environmental
Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

PUBLISH: September 26, 1981



Kleeman Engineering, Inc.

404 North Andrews Avenue • Fort Lauderdale, Florida 33301

CHEMICAL & ENVIRONMENTAL ENGINEERS

September 4, 1981

305/467-6708 • 305/735-8614

*Larry, S.H.
Cleve, Bob
verify?*

Fla. Dept. of Environmental Regulation
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, Fla. 32301



Attention: Mr. C.H. Fancy, P.E., Deputy Chief
Bureau of Air Quality Management

Re: Osceola Farms Co. - Bagasse Boiler #6
DER Construction Permit Application

Dear Mr. Fancy:

Pursuant to our discussions at your office on 9-1-81, we submit the following additional information:

Your Letter of 7-2-81

Item 13 Although dust collectors provide good particulate removal efficiencies (up to 99%) for many applications, they have been determined to be inadequate when used with bagasse boilers, since they do not provide compliance with the emission standards. It appears that the characteristics and size distribution of the bagasse combustion particulates are not favorable to obtaining the required removal efficiency when dust collectors are used.

Palm Beach County Health Dept. Letter of 6-29-81

This letter refers to 31 items of questions and requests for additional information. I have reviewed these items by telephone with Mr. Martin and supplied to him the requested information, except for those which relate to the modeling studies. He recognizes that these latter items have been addressed in discussions between Mr. Holladay and Mr. Dybevick. I have agreed to supply a new drawing regarding the stack configuration and layout of the abatement equipment. This will be forwarded to your office, and to Mr. Martin, promptly.

If you have any further questions, please contact me immediately.

Sincerely,

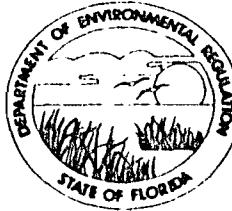
Frank S. Kleeman
Frank S. Kleeman, P.E.

cc: Fla. DER - Ft. Myers
P.B. Co. Health Dept.
Osceola Farms Co.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301

(904) 488-1344



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

July 2, 1981

Alexander L. Fanjul
Vice President
Osceola Farms Company
P. O. Box 679
Pahokee, Florida 33476

Dear Mr. Fanjul:

RE: Bagasse Boiler No. 6 - State Construction Permit Application

The Department has received your application for a permit to construct a bagasse boiler in Palm Beach County, Florida. Based on the initial review of your proposal, it has been determined that additional information is needed before we can process the application. The information required to complete the application is listed below.

1. The SO₂ emission calculations in the application are questionable. Our calculations show 134 lbs SO₂/hr from burning bagasse, not 80 lbs/hr. Total SO₂ emissions will be 141.6 lbs/hr or 217.5 tons/yr.
2. The maximum fuel oil consumption, 48 gal/hr, should be used for all emissions calculations. Please recalculate the PM, NO_X, HC and CO emissions by using 48 gal/hr fuel oil consumption instead of 24 gal/hr.
3. What are the designed maximum and minimum clear water flows to the scrubber (GPM), pressure on the spray headers (psig) and pressure drop ("H₂O) across the scrubber?
4. How many oil burners does the proposed boiler have? What is the capacity of each burner?
5. Describe the process that will be used to feed bagasse into the boiler. How will the amount of bagasse be measured during the feeding process? What unit will be used for reporting bagasse feed?
6. Please furnish a copy of the scrubber I.D. fan operating curve. Include the fan speed (R.P.M.), motor H.P. and amperage

Mr. Fanjul
July 2, 1981
Page Two

of the exhaust fan at design conditions. What is the temperature of the flue gas at the scrubber I.D. fan?

7. Provide the actual monthly fuel oil consumption during 1979 and 1980 for each existing boiler (units 1 through 5).
8. Is any plant expansion that would increase air pollutant emissions planned in conjunction with the proposed boiler?
9. What are the maximum emissions of all criteria pollutants and heat input rates for each existing boiler and the proposed boiler? List this information in a table.
10. How will fugitive particulate emissions from the storage and transfer of bagasse be controlled? Please submit a plan for the control of fugitive bagasse dust generated from storage.
11. Provide a letter from the scrubber manufacturer on the performance of the scrubber giving efficiency and the particulate emission limits (in pounds per million Btu heat input) which can be met for varying particle sizes.
12. Furnish a drawing of the stack configuration indicating sampling port locations, safety platforms, inlet ducting, etc.
13. Give the control efficiency, cost, and inlet and outlet loading of the multi-cyclone dust collector which was not specifically addressed as part of the control equipment in the application.
14. What is visible emissions impact in the area of the plant? (Will the new boiler increase the number of employees?).
15. In the PSD analysis, air quality impacts from Boilers #1 through #5 are compared with impacts from Boilers #2 through #6. Is Boiler #1 going to be shut down permanently?
16. Please perform an increment consumption analysis for both TSP and SO₂. According to information on page 14 of the PSD analysis, Boiler #5 and Boiler #6 would consume increment. Please submit increment consumption tables and the required computer modeling runs.

Mr. Fanjul
July 2, 1981
Page Three

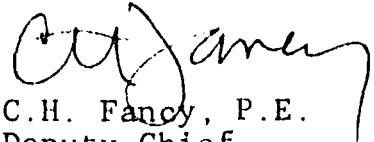
17. Please perform an ambient air quality standards analysis for SO₂ in the vicinity of Osceola Farms with Boiler #6 in operation. Interactions with surrounding sources should be investigated, including FPL-Martin. Please submit an ambient concentration table and the required modeling runs.
18. Since the new boiler will increase emissions of nitrogen oxides by a significant amount, an ambient air analysis of nitrogen oxides needs to be performed. Please submit the required modeling runs.
19. Based on the latest EPA ambient monitoring guidelines (Ambient Monitoring Guidelines for Prevention of Significant Deterioration, EPA-450/4-80-012, Section 2), we believe that ESE's procedure to determine a TSP background is not justified. We suggest two alternatives for developing this background. One alternative could be based on the data collected from the Palm Beach County Health Department TSP monitor PB-16. This monitor would be considered a "regional" monitor. Because of its remote location, with the Everglades to the north and Loxahatchee Wildlife Refuge to the south, the impact of cane field burning would probably not be reflected in data from this monitor. Therefore, a modeling analysis of the impact of cane field burning would need to be included in order to supplement the data from PM-16.

The other alternative would be to use data from an existing Sugar Cane League monitor within 10 km of Osceola Farms. The impact of cane field burning would probably be reflected in data from that monitor. If data from Sugar Cane League monitor was used, though, the data would have to meet all FDER and EPA quality assurance requirements, and the data would have to be submitted to FDER for verification. Since data from one of the Sugar Cane League monitors may be impacted by point source emissions from Osceola Farms, the modeled impact of these sources at the location of the monitor could be subtracted out. For either alternative, we suggest that three years of monitor data be used if available.

Mr. Fanjul
July 2, 1981
Page Four

As soon as we receive the required information, we will resume processing your application. If you have any questions on the data requested, please contact this office. Cleve Holladay should be contacted on any questions related to: modeling and Bob King on the other items.

Sincerely,



C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management

CHF:dav

cc: West Palm Beach
DER, Ft. Myers

STATE OF FLORIDA



DEPARTMENT OF

Health & Rehabilitative Services

Bob Graham, Governor

District Nine
P. O. Box 29

Palm Beach County Health Dept.
West Palm Beach, Florida 33402

Please Address

Reply to:

Mr. Willard Hanks
Department of Environmental Regulation
Bureau of Air Quality Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

June 29, 1981

305-837-3070



Re: PSD/BACT/Non-Attainment
Permitting - Osceola Farms
Company - Boiler No. 6

Dear Mr. Hanks:

This agency has reviewed the application for the above referenced source. The application form is incomplete. Please include our comments below in your agency's request for additional information:

1. What is the basis for the Particle Size found in Section 3, Item D, P.3 of 10?
2. Page 9 of 10 of Osceola's Application is the same as that page found in Atlantic Sugar Association Boiler #5's application. Please delete or correct.
3. The ultimate Analysis of Bagasse submitted by Riley Stoker and Distral, S.A. do not agree as to the percentage of sulfur (0.2 vs. 0.04%). Please clarify.
4. Drawing of Scrubber is for boilers #2 - #3, not #6. Need specific drawings of Unit #6, Boiler, Scrubber, fan and stack configuration including sampling ports, platforms and ladders.
5. Osceola's PSD report dated May 28, 1981, is identical to the PSD report submitted for Atlantic Unit #5 dated May, 1981. Specifically Tables 4-1, 5-1, 6-1, and 6-3 contain the same numeric values for both sources. Atlantic's report is based upon a 100,000#/hour boiler and Osceola's boiler has a design of 150,000#/hour. However, the PSD data for both units found in the tables listed above are the same (Table 6-3, etc). Please verify that this is in fact an accurate way to reflect concentrations for Osceola. It is this agency's opinion that the emission data, PSD consumption results, Maximum Predicted Ground-Level Concentrations will not be identical for the two different sources.

7. IPS's Specifications 309/06-03-01, Section V.9, page 6 of 13; and Section V. 16, page 10 of 13, state that two scrubbers and 2 stacks are designed for Unit #6. However, the site plan implies one scrubber and stack. Please clarify.

8. Section III, Page 3 of 10, Item C. The SO₂ emissions appear to be incorrect. Please correct and resubmit.

9. Table 1, the Maximum Annual Emission of Criteria Pollutants, page HTB 2.1. The Annual Emissions (T/yr) for Boilers 1 through 5 for SO₂ and Boilers 2 through 6 for PM and SO₂ are incorrect. Please recalculate and correct all items.

10. Table 7 and paragraph 1 of page AQ 5 indicate an interaction with Nearby Sources with boiler 2 through 5. Information should reflect boilers 1 through 6. Recalculate.

11. Appendix A, page VTBA.1, did not reflect Combustion Calculations for Fuel Oil. Please submit.

12. Appendix B, Exit Gas Calculations for oil has not been addressed. Please calculate.

13. Review of the E.S.& E's procedure to determine a T.S.P. background concentration (Table 3, Page HTB2-3) is not acceptable to this agency. Required quality assurance procedures outlined in State and Federal requirements state that a site must perform Precision and accuracy audits. Precision requirements as stated in Section 6.2.5.1 of E.P.A. Guideline Series, Ambient Monitoring Guidelines for Prevention of Significant Deterioration, E.P.A.-450/2-78-019, requires co-located samplers. Currently, the Florida Sugar Cane League, whose data was used to establish a background concentration, has not met minimum Q.A. requirements. Therefore, this data cannot be used to establish a background for T.S.P. Additionally, from a statistical standpoint, one does not take an average (background of 40 ug/m³) of an average (84th percentile figures of 42, 32, 46). Both reasons above invalidate the proposed background figure of 40 ug/m³ established by E.S.& E.

14. Data calculated from Palm Beach County Health Department T.S.P. Station # P.B.-16, indicates that the 84th percentile figure for data collected at this site since 1976 through 1980 will give us a background concentration of 47 ug/m³. The Health Department's data meets all F.D.E.R. and E.P.A. quality assurance requirements - (Data attached). This agency, therefore, recommends a background concentration of 47 ug/m³. Modeling requirements must address this change in background.

15. Osceola's Five-Year Particulate Program did not adjust the stack heights for downwashing, as was the case in the modeling for the SCGC #8 and Atlantic #5. Please explain as to why the model does not address downwashing and its effects on the ground level concentrations.

16. The Wind Speed used in the modeling for Osceola was taken at 7.00 meters, as was the case for the SCGC #8 data. However, Atlantic's input states that wind speed was taken at 10.00 meters. Please explain the differences in elevation, since all data is collected at the same location, NWS in West Palm Beach.

17. Computer modeling for Unit #6 is calculated with a Stack Diameter (SD) of 2.16 meters (85"). However, Section III, Item H states that the SD is 6'(72"). Which is correct? Recalculate the model to reflect the correct information. Additionally, information in this office indicates that the Stack Height (SH) for units 1 through 4 is 75', not 72' (as shown in the model). Please address. OK

18. Review of Osceola's Farm file indicates that a Federal PSD has not been completed for Osceola's Unit #5. A request was made by EPA in a letter dated December 4, 1979, and again in a letter from Tom Davis, dated March 12, 1980 (see attached), requesting Mr. Kleeman, engineer for Osceola, to conduct a PSD analysis for Unit #5. Since this appears to have not been completed, should it now be requested? Please advise this agency as to DER's position on this question. ?

19. Will the maximum hourly consumption of bagasse be only thirty (30) pounds more than average hourly consumption?

20. Page 2 Addendum calculations - Particulate Emissions were determined by comparison with a boiler producing 125,000 lbs/hr steam while burning 160 lbs/hr oil and an unnamed amount of bagasse. Has the validity of this type comparison been documented?

21. The Health Department's copy of South Florida Environmental Service's Stack Test performed on Osceola Boiler #5 (Report 219-S) on December 28, 1979 and December 31, 1979, shows that no oil was burned during test and the average steam production was less than 124,000 lbs/hr. Data on page 2 of Addendum Calculations, Section C, appears to be invalid.

22. What is the total design capacity in gallons per hour of #6 Fuel Oil of the fuel oil burners?

23. Boiler should be equipped with a fuel oil meter to measure the amount of fuel oil used.

24. What is this boiler's efficiency when burning fuel oil? Summary Performance Sheet does not address the oil specifications. Please submit Summary Performance Sheet for oil.

25. Calculations of potential emissions in Addendum Calculations are based on average fuel consumption. In our opinion, potential emissions should be calculated based on maximum fuel consumption.

26. If the boiler's maximum firing rate on oil is 384 lbs/hr, why did the bidding specifications call for the boiler to have the capability of producing 90,000 - 100,000 pounds steam per hour when burning fuel oil? At 80% boiler efficiency and everything else being equal, (i.e., steam heat value, oil heat of combustion, feed water temperature, etc.), it would require 6843 pounds of fuel oil per hour to produce 95,000 pounds of steam per hour. Please address.

27. The following sources within 50 km of Osceola were not included in the computer modeling contained in the Air Quality Analysis. Please include them in the modeling or explain why they should not be included.

City of Pahokee Incinerator pt. 01, 02.
Gulf and Western #9, pt. 08.
Florida Power & Light 1 & 2, Pt. 01, 02.
Florida Sugar Refinery 1 & 2, pt. 01, 02.
U.S. Sugar-Bryant 4, pt. 04.
Glades Correctional Institute pt. 01, 02, 03, 04.
Pratt & Whitney, All Points.
FPL - Martin, Boilers 1 & 2, pt. 01, 02.
Everglades Sugar Refinery, pt. 02.

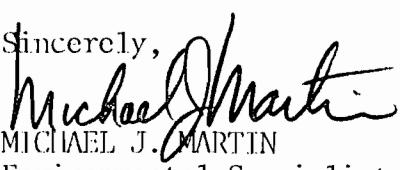
28. Missing page 8 of 10 and 10 of 10 from the application: DER Fm. 17-22(16). Please submit.

29. A manometer to measure differential pressure and a flow meter will be required to be installed on the Scrubber for monitoring the operation of this unit.

30. Will this unit have a scrubber bypass installed? If so, please reflect its location in the drawings to be submitted.

31. Please advise this agency as to the plans that have been made to assure an adequate water supply to the scrubber.

Your cooperation is greatly appreciated.

Sincerely,

MICHAEL J. MARTIN
Environmental Specialist

MJM/o
Enclosure

Cc: Mr. C. Fancy, B.A.Q.M.
Mr. M. Baig, D.E.R., Fort Myers

1 WEST FIRST STREET
TE 401
11 MYERS, FLORIDA 33901



BEST AVAILABLE COPY

SECRET

PHILIP R. EDWARDS
DISTRICT MANAGER

Best Available Copy

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTH FLORIDA DISTRICT

March 12, 1980

Mr. Frank Kleeman
Kleeman Engineering, Inc.
404 N. Andrews Avenue
Ft. Lauderdale, Fl 33301

RE: Palm Beach Co. - AP
Osceola Farms Co.
Boiler #5 - [Signature]

RECEIVED
MAR 17 1980

Division of Environmental Engineering
PALM BEACH COUNTY
HEALTH DEPT.

Dear Mr. Kleeman:

This letter is written in reference to our meeting in West Palm Beach - specifically the letter from EPA dated December 4, 1979 concerning Federal PSD requirements for Osceola Farm Company's Boiler #5.

While EPA has established a streamlined procedure for smaller sources (referred to by EPA as "50-ton sources"), my review of the data for this boiler indicates it would not qualify for this short review. The criteria is to have allowable emissions less than 50 tons/year or 1,000 lbs/day whichever is more restrictive. The maximum allowable emission rate for this boiler is 1,061 lbs/day.

Accordingly, it is felt that this facility will require a complete EPA review. Enclosed is a copy of a portion of the Federal Register dealing with this issue.

If there are any questions concerning this matter, please contact me.

Sincerely,

Thomas W. Davis

Thomas W. Davis
Engineer

TWD/lp

Encl.

cc: Palm Beach Co. Health Dept.

~~Bill, Larry, Steve, Bob K.B.K.~~
~~Willard, Tim, permit file~~

OSCEOLA FARMS CO.

316 ROYAL POINCIANA PLAZA

PALM BEACH, FLORIDA 33480

TELEPHONE
(305) 655-6303

CABLE: "SUGAR"
TELEX: 803444

BY HAND

September 3, 1981

Mr. C. H. Fancy, Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Building
Room 616
2600 Blairstone Road
Tallahassee, Florida 32301

RE: Osceola Farms Co. - Pahokee
Bagasse Boiler #6 - Construction Permit Application

Dear Mr. Fancy:

First, please accept our appreciation for the time and effort which you and your staff devoted to us Tuesday and for the many courtesies you extended.

Secondly, it seems appropriate for me to emphasize the urgency of Osceola's need to put into operation the proposed boiler #6 simultaneously with factory start-up on November 1. As explained yesterday, this boiler is an essential element in increasing the daily grinding rate of our sugar mill (by approximately 2,000 tons of cane per day) to a level needed to efficiently process our sugar cane production for the 1981/82 crop.

The addition of boiler #6 is necessary in achieving two important objectives: First, it will reduce unit operating costs and improve energy efficiency by increasing the use of bagasse for fuel and reducing the use of No. 6 diesel oil. The profitability and economic viability of the Osceola mill, which employs approximately 1,300 workers when in full operation, is dependent on an efficient manufacturing operation. If this unit cost savings and increased energy efficiency is not available for the crop which begins on November 1, economic viability of the mill will be seriously impacted.

Second, it will reduce the number of factory operating days (by 30 or more) to a level designed to minimize the potentially disastrous consequences of a freeze. Freeze damaged cane normally remains viable for processing for approximately 30 days following the freeze. In the absence of the additional daily processing capacity which will be provided by the proposed boiler #6, a late January freeze (the period of highest risk) could result in the loss of 200,000-250,000 tons of cane and the consequent lay-off by Osceola of 450 full-time employees

Mr. C. H. Fancy, Deputy Chief

September 3, 1981

Page Two

and approximately 900 seasonal employees. Such a loss in production could render Osceola's operation unprofitable and would also result in serious economic injury to Osceola's 20 independent sugar cane farmers who are dependent on revenues from the processing of sugar cane to meet payrolls and maintain the viability of their own farming operations.

It is difficult to estimate the full economic impact on our community of the potential freeze related loss of jobs, income to the Osceola mill and revenues to the independent farming operations, but the potential economic harm would certainly be reckoned in millions of dollars. The seriousness of this potential risk, in addition to unit cost savings and energy efficiency, is a primary reason that Osceola has undertaken the capital investment necessary to construct the proposed boiler #6.

My staff and I, as well as Mercer Fearington and his staff, will be available at any time to assist in the application process in any way you may think appropriate. We shall be most grateful for your efforts in issuing the necessary permits by November 1.

Very truly yours,

OSCEOLA FARMS CO.



Jose Fanjul
Executive Vice President

JF:jt

Public Notice

A modification to an existing air pollution source is being proposed by Osceola Farms Company near the city of Bryant, Palm Beach County, Florida. The proposed modification is the construction of a bagasse/fuel oil fired boiler with 150,000 pounds of steam per hour capacity. The modification will increase emissions of air pollutants, in tons per year, by the following amounts.

<u>PM</u>	<u>SO₂-</u>	<u>NO_x-</u>	<u>CO</u>	<u>VOC</u>
27.8	181.9	57.7	79.6	79.6

The proposed modification has been reviewed by the Florida Department of Environmental Regulation under Chapter 403, Florida Statutes, and, Federal regulation 40 CFR 52.21, Prevention of Significant Deterioration (PSD). The Department has made a preliminary determination that the construction can be approved provided certain conditions are met. A summary of the basis for the determination and the application for State and Federal permits submitted by Osceola Farms Company are available for public review at the following offices:

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Belle Glade, Florida 33430

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Palm Beach County Health Department
West Palm Beach, Florida 33402

South Florida District
Dept. of Environmental Regulation
2269 Bay Street
Fort Myers, Florida 33901

Bureau of Air Quality Management
Dept. of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

The maximum percentages of allowable PSD increments consumed by the proposed modification will be as follows:

	<u>Annual</u>	<u>24-Hour</u>	<u>3-Hour</u>
PM	16	51	NA
SO ₂	55	85	81

Any person may submit written comments regarding the proposed modification. All comments, postmarked not later than 30 days from the date of this notice, will be considered in making a final determination regarding approval for construction of this source. Those comments will be made available for public review on request. Furthermore, a public hearing can be requested by any person. Such request should be submitted within 15 days of the date of this notice. Letters should be addressed to:

Mr. C. H. Fancy
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, Florida 32301

FRANK S KLEEMAN PE <KLEEMAN ENGI
404 NORTH ANDREWS AVE
FORT LAUDERDALE FL 33301



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► MR CLAIRE FANCY
FLORIDA DEPT OF ENVIRONMENTAL REGULATION
ROOM 616 2600 BLAIRSTONE RD
TALLAHASSEE FL 32301



WE REQUEST FEDERAL PSD REVIEW OF PERMIT APPLICATION SUBMITTED FOR
OSCEOLA BAGASSE BOILER

FRANK S KLEEMAN PE
KLEEMAN ENGINEERING INC

1354 EST

MG MCO MP MGM

TO REPLY BY MAILGRAM, PHONE WESTERN UNION ANY TIME, DAY OR NIGHT:

FOR YOUR LOCAL NUMBER, SEE THE WHITE PAGES

OF YOUR TELEPHONE DIRECTORY

OR

DIAL (TOLL FREE) 800-257-2241

(EXCEPT IN NEW JERSEY 800-632-2271)

OR DIAL WESTERN UNION'S INFOMASTER SYSTEM DIRECTLY:

FROM TELEX 6161

FROM TWX 910 420 1212

AIR QUALITY
ANALYSIS FOR
OSCEOLA FARMS
BOILER NO. 6

Prepared for:

KLEEMAN ENGINEERING, INC.
Ft. Lauderdale, Florida

Prepared by:

ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.
Gainesville, Florida

May 1981

ESE No. 80-180-100

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
<u>AIR QUALITY ANALYSIS</u>	1
MONITORING DATA	4
<u>Total Suspended Particulate</u>	4
AIR QUALITY IMPACTS	7
<u>Emissions Inventory</u>	7
<u>Dispersion Models and Meteorology</u>	8
<u>Air Quality Impact</u>	8
INCREMENT CONSUMPTION	14
<u>ADDITIONAL IMPACTS ANALYSIS</u>	15
IMPACTS ON SOILS AND VEGETATION	15
VISIBILITY IMPACTS	15
<u>REFERENCES</u>	16
<u>APPENDICES</u>	
APPENDIX A--COMBUSTION CALCULATION FOR BAGASSE	
APPENDIX B--EXIT GAS CALCULATION	
APPENDIX C--COMPUTER MODEL PRINTOUT	

LIST OF TABLES

<u>Table</u>		<u>Page</u>
1	Maximum Annual Emissions of Criteria Pollutants	2
2	Significant Emission Rates as Defined by EPA	3
3	Summary of 1980 Ambient TSP Monitoring Data (24-Hour Average, ug/m ³)	6
4	Stack Emission Parameters	9
5	Highest, Second-Highest Ground-Level Concentrations (ug/m ³)--Proposed Osceola Sugar Mill Expansion	10
6	National and State of Florida Ambient Air Quality Standards	12
7	Highest, Second-Highest 24-Hour Ground-Level Concentrations (ug/m ³) in Directions of Inter- action with Nearby Sources	13

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1	Regional Hi-Vol Monitors	5

AIR QUALITY ANALYSIS

Current allowable emissions of particulate matter and theoretical emissions of SO₂, CO, volatile organic compounds (VOC), and nitrogen oxides (NO_x) are each greater than 250 tons per year; thus, the mill is classified as a major source under both federal (Table 1) and state criteria (40 CFR Part 52.21 and FAC 17-2). The new boiler will increase emissions of these pollutants by an amount greater than the rates defined as significant by EPA, shown in Table 2. Therefore, the addition of Boiler 6 is classified as a major modification and is subject to federal Prevention of Significant Deterioration (PSD) review for these three pollutants. The emission factors for NO_x, CO, and hydrocarbons (HC) are taken from AP-42. The factor for HC does not specify VOC or total HC, all VOC was assumed as a worst-case estimate. Stack tests indicate that these emissions may be greatly overestimated. No emission factors for non-criteria pollutants are available for bagasse or residue consumption, and emissions of these pollutants have been assumed to be below the federal significant emission rates.

The components of the federal PSD review are:

1. Control technology review,
2. Source impact analysis,
3. Air quality analysis,
4. Source information, and
5. Additional impact analysis.

The source impact, air quality analysis, and additional impact analysis are discussed in this report.

The Osceola Sugar Mill is in Palm Beach County, a non-attainment area for ozone. Since volatile organic compound (VOC) emissions theoretically exceed the non-attainment emission rate of 50 tons/year, non-attainment review and control to achieve "lowest achievable emission rate" (LAER) is required for that pollutant. The proposed LAER is good boiler design and proper operation.

Table 1. Maximum Annual Emissions of Criteria Pollutants

Boiler	Steam Production Rate (lb/hr)	Average Bagasse Consumption (dry tons/hr)	Average Fuel Oil Consumption (gal/hr)	Heat Input [†] (10 ⁶ Btu/hr)	Annual Emissions (tons/yr)*				
					PM	SO ₂	NO _x	CO	HC
#1	46,800	5.6	—	89.6	59.0	49.7	33.0	45.1	45.1
#2	125,000	14.9	20	241	157	146	90.6	119	119
#3	67,000	8.0	—	127	84.3	68.8	47.0	64.0	64.0
#4	100,000	11.9	20	193	126	120	72.8	95.7	95.7
#5	125,000	14.9	20	241	105	146	90.6	119	119
#6	150,000	17.9	20	289	126	173	108	144	144
Total 1 through 5					531	531	335	443	443
Total 2 through 6					698	655	409	542	542
Potential Increase					67	124	74	99	99

Note: PM and SO₂ emissions based on Table 4. SO₂ emissions are based on total conversion of sulfur in bagasse to SO₂. Stack tests have indicated this method substantially overestimates emissions.

NO_x: 1.2 lb/ton wet bagasse; 2.67 lb/ton dry bagasse; 60 lb/10³ gal fuel oil.

CO: 5 lb/10³ gal fuel oil.

HC: 2 lb/ton wet bagasse; 3.64 lb/ton dry bagasse; 1 lb/10³ gal fuel oil.

CO: 2 lb/ton wet bagasse; 4.44 lb/ton dry bagasse.

No basis or reference is provided in AP-42 for emission factors for HC, CO, or NO_x.

These emissions are believed to be greatly overestimated and are included here only to provide a worst-case estimate.

* Based on 184 day crop season.

† Bagasse burning efficiency equals 55 percent; fuel oil burning efficiency equals 80 percent.

Table 2. Significant Emission Rates as Defined by EPA

Pollutant	Significant Emission Rate (tons per year)
Carbon Monoxide	100
Nitrogen Dioxide	40
Total Suspended Particulates	25
Sulfur Dioxide	40
Ozone (volatile organic compounds)	40
Lead	0.6
Mercury	0.1
Beryllium	0.0004
Asbestos	0.007
Fluorides	3
Sulfuric Acid Mist	7
Vinyl Chloride	1
Total Reduced Sulfur	10
Hydrogen Sulfide	10
Reduced Sulfur Compounds	10
Inorganic Arsenic	0
Radionuclides	0
Benzene	0
Ethylene Dichloride	0
Polyvinyl Chloride	0

Source: Federal Register, Vol. 45, No. 154, 1980.

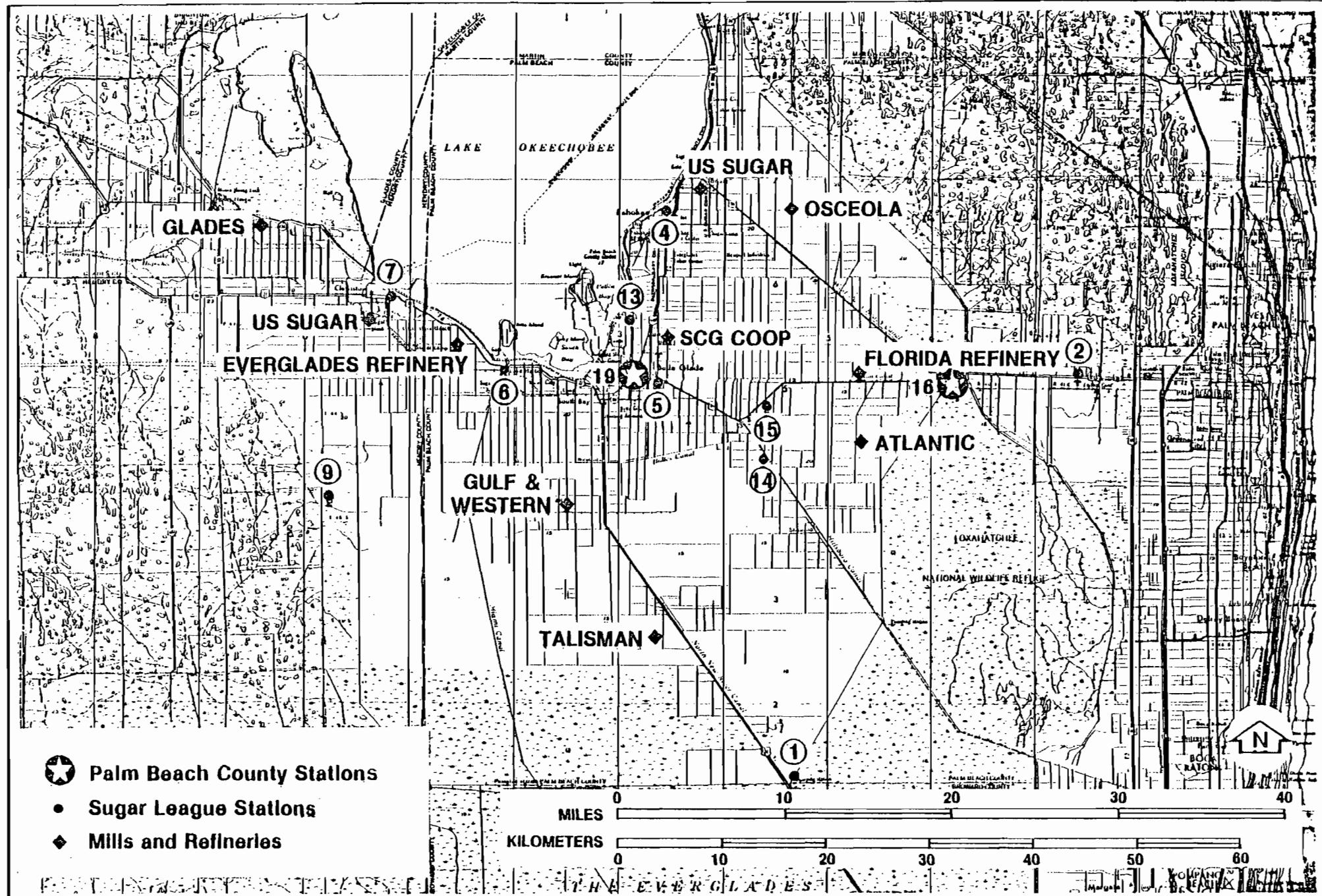
No sulfur dioxide or particulate matter non-attainment areas are within 100 kilometers (km) of the site. The nearest Class I area is the Everglades National Park, approximately 115 km south of the plant. Since no Class I areas are within 100 km of the plant, analysis is limited to a discussion of impacts on visibility.

MONITORING DATA

The Clean Air Act Amendments of August 1977 require that the owner of any proposed major air pollution source conduct ambient air monitoring for applicable pollutants for a period of 1 year prior to submission of a construction permit application. The use of existing representative data may be permitted in lieu of monitoring, provided the data meet EPA PSD monitoring criteria. Assuming this application is complete before June 8, 1981, the monitoring provisions of the 1978 PSD regulations will apply. Under these regulations, monitoring was required only for criteria pollutants for which the source was major or for a major modification. A major modification was defined as an increase in emissions from a new facility within the source of either 100 tons per year (if one of the 28 listed source categories) or 250 tons per year. Under the 1978 PSD definitions, the proposed modification would not be subject to ambient monitoring. Total suspended particulate (TSP) data were analyzed, however, to determine background concentrations.

Total Suspended Particulate (TSP)

The Florida Sugar Cane League (FSCL) and Palm Beach County (PBC) maintain a network of high volume ambient air monitors in the sugar-producing area of the state. The monitoring is conducted on a 6-day cycle using the EPA reference method (40 CFR Part 50 App. B). Figure 1 shows the monitor locations in the vicinity of the Osceola Sugar Mill, and four additional monitors considered appropriate for determination of a background concentration value. Table 3 summarizes the most recent data available from the monitors. No violations of the



SOURCES: FLORIDA SUGAR CANE LEAGUE
ENVIRONMENTAL SCIENCE AND ENGINEERING, INC., 1981

Figure 4. REGIONAL HI-VOL MONITORS

Table 3. Summary of 1980 Ambient TSP Monitoring Data (24-Hour Average, $\mu\text{g}/\text{m}^3$)

Station*	Number of Observations	Maximum	Second Maximum	Arithmetic Mean	Geometric Mean	Geometric Standard Deviation	Correlation Coefficient	84th Percentile
SL-1	54	103	79	46	42	1.50	0.979	64
SL-2	57	78	68	30	27	1.55	0.989	42**
SL-4	60	110	89	54	50	1.42	0.983	72
SL-5	58	107	107	64	60	1.40	0.978	85
SL-6	60	115	100	43	39	1.56	0.995	61
SL-7	53	102	83	45	42	1.44	0.968	61
SL-9	56	49	44	24	23	1.45	0.992	32**
SL-13	57	106	92	36	32	1.66	0.969	53
SL-14	60	102	100	40	35	1.65	0.993	58
SL-15	51	105	90	47	43	1.51	0.990	65
PB-16	60	68	67	34	32	1.44	--††	46**
PB-19	61	110	96	59	57	1.34	--††	76

* SL = Sugar League Data

PB = Palm Beach County Data.

† C._{.84} = M Sg (1-0.5 ln Sg)C._{.84} = 84th percentile concentration

M = arithmetic mean

Sg = geometric standard deviation (Larson, 1971).

** Background station.

†† Not available from annual report.

Source: ESE, 1981.

150- $\mu\text{g}/\text{m}^3$ 24-hour or 60- $\mu\text{g}/\text{m}^3$ annual geometric mean standards for TSP have been observed during 1980.

For each station, the concentration of one (1) standard deviation above the geometric mean was calculated. For lognormally distributed data, 84 percent of the observed values are below this value. Correlation coefficients for a lognormal fit of the FSCL data are all above 0.990, indicating a very close approximation of the lognormal distribution. Correlations are not available for PBC stations. Stations 1, 2, 9 and PB16 are greater than 10 km from any point source, yet they are affected by the same meteorology as the proposed source. As such, they are considered regional monitors, and a statistical analysis of their data was performed to establish a background concentration.

Construction on U.S. Highway 27 near Station 1 began in January 1980 and clearly influenced results at that station during that year. The average 84th-percentile value among the remaining three stations was 40 $\mu\text{g}/\text{m}^3$, which was taken to be a conservative short-term background concentration. The probability of the 84th-percentile or higher concentration occurring in combination with meteorological conditions causing highest, second-highest 24-hour point source impacts is less than once in 15 years.

AIR QUALITY IMPACTS

Emissions Inventory

The area within 50 km of Osceola Sugar Mill was inventoried for point sources of particulate and SO₂ emissions. The basis for this inventory was the 1980 Air Permit Inventory System (APIS). Construction permits submitted during 1981 were also accounted for and the maximum allowable emission rates were used.

The inventory includes all the mills and both refineries in Palm Beach and Hendry Counties, two point sources in Belle Glade, and Florida Power & Light Riviera and Lake Worth Utilities generating stations.

Dispersion Models and Meteorology

Both short-term (24-hour) and long-term (crop-season) impacts were predicted with the Industrial Source Complex (ISC) model, an EPA-approved Gaussian dispersion model, using rural dispersion characteristics.

Five years (1970 to 1974) of historical surface meteorological data recorded at West Palm Beach Airport were input to the model. Upper atmosphere observations were recorded at Miami for the same time period. To reflect the seasonal operation of the plant, only data for the period from October 15 through March 15 were modeled.

Air Quality Impact

Initial modeling with 5 years of meteorological data was performed for emissions from Osceola Sugar Mill only. The critical meteorology and approximate location of highest, second-highest concentrations were determined with a radial receptor grid covering 36 directions, every 200 meters from the plant center. The impact determination was refined with a 1-km square grid of receptors at 100-meter intervals. All significant surrounding sources were included in this refined analysis.

The stack parameters used for modeling are shown in Table 4. Calculation of flow rates and pollutant emission rates are found in Appendices A and B. Stack tests indicated that Boilers 2 and 3 have significantly higher flow rates than calculated. Values from the latest stack test on these boilers were used in the modeling.

Results of this analysis are given in Table 5. The sum of projected highest, second-highest impacts and background concentrations are 146 ug/m³ for Boilers 1 through 5 and 149 ug/m³ for Boilers 2 through 6 on a 24-hour basis. These values are below the Florida Ambient Air

Table 4. Stack Emission Parameters

Boiler	Modeled Capacity (lb steam/hr)	Average Fuel Oil Consumption (gal/hr)	Allowable PM Emissions (lb/ 10^6 Btu)	Worst-Case* PM Emission Rate (lb/hr)	Scrubbed Gas Flow Rate (10^3 ACFM)	SO_2 Emissions† (lb/hr)
#1	46,800	—	0.3	26.7	34.7	22.5
#2	125,000	20	0.3	71.3	109**	66.3
#3	67,000	—	0.3	38.1	73.3**	32.1
#4	100,000	20	0.3	57.0	74.3	54.3
#5	125,000	20	0.2	47.5	92.9	66.3
#6	150,000	20	0.2	57.0	111	78.3

* When total heat input is from bagasse.

† Theoretical basis; 0.1-percent dry sulfur; no loss in bottom ash or scrubber included.

** Stack tests indicate this boiler has significantly higher flow rate than calculated.

This figure represents the latest measured flow rate.

Source: ESE, 1981.

Table 5. Highest, Second-Highest Ground-Level Concentrations
(ug/m³)--Proposed Osceola Sugar Mill Expansion

	TSP	
	24-hr	184-day
Existing Plant + background	106*	13
	+ 40	
	<u>146</u>	
Proposed Modifica- tion + background	109†	12
	+ 40	
	<u>149</u>	
New Source	18	--

* Day 295/1974, Direction 240°, Distance 600 m.

† Day 285/1974, Direction 240°, Distance 800 m.

Source: ESE, 1981.

Quality Standard (AAQS) of 150 ug/m³ (Table 6). Addition of Boiler 6 on the proposed operating schedule does not result in a significant net air quality impact (10 ug/m³ 24-hour) as defined in 40 CFR Part 52.

The possibility of interaction with surrounding sources to produce higher concentrations was investigated. Critical meteorology in directions aligning the nearest sources was determined. Concentrations along this radial with the selected meteorological conditions were determined for operation of Boilers 2 through 5. Table 7 gives the results of this investigation, which show that no source interactions occur which produce concentrations more than 7 ug/m³ higher than those due to Osceola alone in the interacting direction. No concentrations above AAQS are projected.

The projected arithmetic average concentrations due to Osceola Sugar Mill emissions after plant modification over the 184-day modeling period are 18 ug/m³ compared to the annual AAQS of 60 ug/m³ geometric mean. Thus, the actual annual average will be some fraction of these 184-day averages. Since no violations of the annual standards were detected in 1980 at any monitoring site and the proposed construction will not result in a significant net air quality impact, no long-term analysis was performed with the area-wide inventory.

Tables 1 and 4 show that theoretical SO₂ emissions are less than allowable particulate matter (PM) emissions from Boilers 1 through 4, and that they are approximately 40-percent greater than allowable PM emissions from Boilers 5 and 6. Stack tests have indicated that SO₂ emissions from bagasse combustion are 60 percent or less than theoretical. Since the Florida 24-hour standard for SO₂ is 260 ug/m³, (173 percent of the TSP standard), TSP modeling results were considered sufficient to demonstrate compliance with the 24-hour SO₂ standard. Experience with West Palm Beach meteorological data

Table 6. National and State of Florida Ambient Air Quality Standards

Pollutant	Averaging Time	National		
		Primary Standard	Secondary Standard	Florida
Suspended Particulate Matter	Annual Geometric Mean	75 ug/m ³	60 ug/m ³	60 ug/m ³
	24-Hour Maximum*	260 ug/m ³	150 ug/m ³	150 ug/m ³
Sulfur Dioxide	Annual Arithmetic Mean	80 ug/m ³	NAT	60 ug/m ³
	24-Hour Maximum*	365 ug/m ³	NAT	260 ug/m ³
	3-Hour Maximum*	NAT	1,300 ug/m ³	1,300 ug/m ³
Carbon Monoxide	8-Hour Maximum*	10 mg/m ³	10 mg/m ³	10 mg/m ³
	1-Hour Maximum*	40 mg/m ³	40 mg/m ³	40 mg/m ³
Hydrocarbons	3-Hour Maximum* (6 to 9 A.M.)	160 ug/m ³	160 ug/m ³	160 ug/m ³
Nitrogen Dioxide	Annual Arithmetic Mean	100 ug/m ³	100 ug/m ³	100 ug/m ³
Ozone	1-Hour Maximum*	235 ug/m ³	235 ug/m ³	160 ug/m ³
Lead	Calendar Quarter Arithmetic Mean	1.5 ug/m ³	1.5 ug/m ³	NAT

* Maximum concentration not to be exceeded more than once per year.

† No standard exists.

Sources: 40 CFR Part 50, 1980.

FAC Chapter 17-2.

Table 7. Highest, Second-Highest 24-Hour Ground-Level Concentrations (ug/m³) In Directions of Interaction with Nearby Sources

Interacting Source	Direction	Day/Year	Impact of Osceola*	Impact with Interacting Sources*
<u>TSP</u>				
U.S. Sugar, Bryant	95°	50/72	87	94
Atlantic	340°	47/70	107	113
Talisman	15°	39/71	77	81
SCGC and Gulf & Western	30°	85/72	71	74
U.S. Sugar, Clewiston	75°	75/74	87	92

* Includes background of 40 ug/m³ TSP.

Source: ESE, 1981.

has shown that, of the 24-hour, 3-hour, and annual standards, the 24-hour SO₂ standard is critical.

This discussion demonstrates that construction of the new boiler, in conjunction with the plant operating strategy described, will not cause or contribute to violations of any federal or State of Florida Ambient Air Quality Standard.

INCREMENT CONSUMPTION

Both federal and state PSD regulations require a demonstration that a proposed source will not cause or contribute to increases in ambient concentrations of TSP or SO₂ greater than a specified amount over a baseline concentration. Since 1974, the baseline year established by Florida DER, the only modification at the Osceola mill has been the installation of Boiler 5 which was demonstrated to comply with increment standards. Table 5 and the appended computer printouts in Appendix C show that the proposed project would not result in a significant net air quality impact. This means that regardless of increment consuming activity by any surrounding source, this project would not cause or contribute to violation of any increment standard. Thus, no formal baseline was established and no explicit increment consumption analysis was performed.

ADDITIONAL IMPACTS ANALYSIS

IMPACTS ON SOILS AND VEGETATION

Impacts on soils and vegetation due to operation of the proposed sources are expected to be minor. Particulate matter is generally considered to have a relatively unimportant effect on vegetation (Jacobson and Hill, 1970). Particulate matter generated by this source is largely ash from burning the same vegetation which would be impacted. Emitted particulate will be mostly suspended and will deposit on vegetation primarily through plume impaction.

Effects of SO₂, NO₂, and particulate matter emissions on soils are expected to be negligible. Acid rain effects in the area are generally unknown, due to a lack of data for the region (Florida Sulfur

Oxides Study, Inc., 1978). The potential for long-range pollutant transport or significant acid rain effects from the proposed source is considered to be very low.

VISIBILITY IMPACTS

A Level I visibility screening analysis (EPA, 1980) confirmed that no visibility impairment should occur in the Class I area. The absolute values of the three Level I contrast parameters (C1--plume contrast against the sky; C2--plume contrast against terrain; and C3--change in the sky/terrain contrast caused by primary and secondary aerosol) are well below 0.10. Thus, it is highly unlikely that the emissions source would cause adverse visibility impairment in Class I areas.

5/29/81

REFERENCES

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Larsen, R.I. 1971. A Mathematical Model for Relating Air Quality Measurements to Air Quality Standards. Pub. No. AP-89. U.S. EPA, Office of Air Programs, Research Triangle Park, North Carolina.

Peters, J.A., and Duncan, C.F. 1980. Nonfossil Fueled Boilers: Emission Test Report, U.S. Sugar Company, Bryant, Florida. Monsanto Research Corporation, Dayton, Ohio, Project No. 80-WFB-6.

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Appendix A--Combustion Calculation for Bagasse

Ultimate Analysis lb/100 lb Fuel			Moles per 100 lb Wet Fuel	Required for Combustion Moles/100 lb	
				Fuel at 100 Percent <u>O₂</u>	Dry Air
C	21.8	±12	= $1.82 \times 1.0 / 4.76$	= 1.82	8.66
H ₂	2.8	±2.02	= $1.39 \times 0.5 / 2.38$	= 0.70	3.31
O ₂	20.4	±32	= 0.64 --	0	0
N ₂	0.1	±28	= 0.0 --	0	0
S	<0.1	±32	= 0.0 × 1.0 / 4.76	= 0	0
H ₂ O	54.5	±18	= 3.03 --		
Ash	0.3				
	100.0		6.88	2.52	11.97
Less O ₂ in fuel $0.64 \times 4.76 = 3.05 \text{ mol air} / 0.19 \text{ mol O}_2$				-0.64 1.88	-3.05 8.95
			Required for Combustion Moles/100 lb Fuel		
			<u>O₂</u>	Air	
			2.82	13.43 (50% xs)	
$xs \text{ Air} = 13.43 - 8.95$			--	--	
$xs \text{ O}_2 = 2.82 - 1.88$			--	--	

Moles H₂O in air $(13.43 \times 29 \times 0.013) / 18 = 0.28$
(0.013 lb H₂O/lb dry air; 18 lb/mole H₂O)

Products of Combustion	Moles/100 lb Wet Fuel
CO ₂	1.82 × 1 1.82
H ₂ O	1.39 × 1 + 3.03 + 0.28 4.66
SO ₂	0.0 0.0
N ₂	13.43 × 0.79 10.61
O ₂	xs 0.94
	18.03 → 13.37 mol dry gas per 100 lb wet fuel

Moles H₂O in saturated air at 155°F = 0.40 mol/mol air
(0.25 lb/lb air)

Appendix B--Exit Gas Calculation

Mole Dry Gas Per 100 lb Wet Fuel	0.40 mol (160°F) Per Mol Dry Air	Lb Mol Gas Leaving Scrubber @ 155°F = per 100 lb Wet Fuel
-------------------------------------	-------------------------------------	---

13.4	5.35	18.7
------	------	------

$$R = 1545.3 \text{ ft}^2 \text{ lb}_f / ^\circ\text{R-lb mole}$$

$$@ 155^\circ\text{F} = 615^\circ\text{R} \quad 14.7 \text{ psi} = 2,116.8 \text{ lb}_f / \text{ft}^2$$

$$V = \frac{n RT}{P}$$

$$\text{ft}^3 = \text{N lb mole} \quad \frac{1545.3 \text{ ft}^2 \text{ lb}_f \times 615^\circ\text{R}}{2116.8 \text{ lb}_f / \text{ft}^2}$$

$$V = 449.0 \text{ n ft}^3$$

$$18.7 \times 449.0 = 8,405 \text{ ft}^3 / 100 \text{ lb wet fuel} \quad (55\% \text{ moisture})$$

$$1,000 \text{ lb steam} \times \frac{1,050 \text{ Btu}}{\text{lb steam}} \times \frac{1}{0.55} \times \frac{1 \text{ lb dry bagasse}}{8,000 \text{ Btu}} = \frac{239 \text{ lb dry bagasse}}{1,000 \text{ lb steam}}$$

For each 1,000 lb steam:

- 0.38 lb PM @ 0.2 lb/ 10^6 Btu
- 0.57 lb PM @ 0.3 lb/ 10^6 Btu
- 0.48 lb SO₂ theoretical basis
- 44,577 ACFM exit gas

Source: ESE, 1981.

*** OSCEOLA FIVE YEAR PARTICULATE D300

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 4
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION) WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 0
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 1
PRINT *N* - DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 1
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RURAL=0, URBAN MODE 1=1, URBAN MODE 2=2)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 1
NUMBER OF INPUT SOURCES	NSOURC = 6
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 3
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 5
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 36
NUMBER OF DISCRETE RECEPCTORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK = .10000E+07
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE	BETAI = 0.600
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE	BETA2 = 0.600
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 7.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION DECAY	= 0.000000E+00
SURFACE STATION NO.	ISS = 12844
YEAR OF SURFACE DATA	ISY = 70
UPPER AIR STATION NO.	IUS = 12839
YEAR OF UPPER AIR DATA	IUY = 70
ALLOCATED DATA STORAGE	LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROGRAM RUN	MINIT = 5524 WORDS

*** OSCEOLA FIVE YEAR PARTICULATE 0300

三

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IIF=1)

111111111111 111111111111 111111111111 111111111111 111111111111
111111111111 111111111111 111111111111 111111111111 100000000000
000000000000 000000000000 000000000000 000000000000 000000000000
000000000000 000000000000 000000000000 000000000000 000000000000
000000000000 000000000000 000000000000 000000000000 000000000000
000000000000 000000000000 000000000000 000000000000 000000000000
000000000000 000000000000 000000000000 000000000000 000000000000
111111111111 111111111111 111111111111 111111111111 111111111111
111111111111 111111111111

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

2, 2, 1,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(10SR)

1, -5, 2, -6, 6,

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1,54, 3,09, 5.14, 8,23, 10,80,

*** WIND PROFILE EXPONENTS ***

*** OSCEOLA FIVE YEAR PARTICULATE D300

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** RANGES OF POLAR GRID SYSTEM ***
(METERS)

600., 800., 1000., 1200., 1400.,

*** RADIAL ANGLES OF POLAR GRID SYSTEM ***

(DEGREES)

10.,	20.,	30.,	40.,	50.,	60.,	70.,	80.,	90.,	100.,
110.,	120.,	130.,	140.,	150.,	160.,	170.,	180.,	190.,	200.,
210.,	220.,	230.,	240.,	250.,	260.,	270.,	280.,	290.,	300.,
310.,	320.,	330.,	340.,	350.,	360.,				

*** OSCEOLA FIVE YEAR PARTICULATE D300

SOURCE #	1---BOILER #1	ONE STACK	46,800
SOURCE #	2---BOILER #2	TWO STACKS	125,000
SOURCE #	3---BOILER #3	ONE STACK	67,000
SOURCE #	4---BOILER #4	ONE STACK	100,000
SOURCE #	5---BOILER #5	TWO STACKS	125,000
SOURCE #	6---BOILER #6	ONE STACK	150,000

*** SOURCE DATA ***

EMISSION RATE TYPE=0,1 (G/S)				TEMP. TYPE=0 (DEG,K)				EXIT VEL. TYPE=0 (M/S)				BLDG.			
NUMBER	PART,	X	Y	BASE	VERT.DIM.	HORZ.DIM.	DIAM.	ELEV,	HEIGHT	TYPE=1,2 TYPE=0	TYPE=0	TYPE=0	HEIGHT	LENGTH	WIDTH
NUMBER	E E	CATS, *PER M**2	(H)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)
1	0 0	0	3.360	0.	50, 0.0	22.00	342.0	8.98	1.52	0.00	0.00	0.00			
2	0 0	0	9.600	0.	25, 0.0	22.00	342.0	14.22	1.52	0.00	0.00	0.00			
3	0 0	0	4.610	0.	0, 0.0	22.00	342.0	11.23	1.98	0.00	0.00	0.00			
4	0 0	0	7.200	0.	-25, 0.0	22.00	342.0	13.35	1.83	0.00	0.00	0.00			
5	0 0	0	6.000	0.	-50, 0.0	22.00	342.0	12.02	1.52	0.00	0.00	0.00			
6	0 0	0	7.200	0.	-75, 0.0	22.00	342.0	14.41	2.16	0.00	0.00	0.00			

INT-DAY
103 DAYS
SGROUPH 1
YEAR 1970
*** OSCEOLA FIVE YEAR PARTICULATE D300

* 103-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -5,
 * FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 11.6 AND OCCURRED AT (800.0, 250.0) *

DIRECTION / RANGE (METERS)
(DEGREES) / 600.0 800.0 1000.0 1200.0 1400.0

360.0 /	2.2	2.6	2.7	2.6	2.5
350.0 /	2.6	2.9	2.8	2.5	2.3
340.0 /	4.3	4.8	4.5	4.1	3.7
330.0 /	3.8	4.0	3.8	3.3	3.0
320.0 /	5.6	6.0	5.6	5.0	4.4
310.0 /	5.6	6.0	5.6	5.1	4.5
300.0 /	5.0	5.3	4.9	4.4	3.9
290.0 /	5.1	5.4	5.1	4.5	4.0
280.0 /	5.3	5.2	4.7	4.0	3.5
270.0 /	8.2	8.6	7.9	7.0	6.1
260.0 /	10.6	11.0	10.0	8.7	7.6
250.0 /	10.8	11.6	10.8	9.5	8.4
240.0 /	7.0	7.2	6.5	5.6	4.9
230.0 /	5.9	6.1	5.5	4.8	4.2
220.0 /	4.2	4.1	3.7	3.2	2.8
210.0 /	2.6	2.5	2.2	1.8	1.6
200.0 /	1.9	1.9	1.7	1.5	1.3
190.0 /	2.0	2.1	2.0	1.8	1.6
180.0 /	2.9	3.0	2.8	2.5	2.2
170.0 /	3.8	4.0	3.7	3.3	2.9
160.0 /	5.0	5.4	5.1	4.6	4.1
150.0 /	5.4	6.0	5.7	5.2	4.7
140.0 /	6.8	7.7	7.5	6.8	6.2
130.0 /	7.1	7.8	7.5	6.8	6.2
120.0 /	5.9	6.2	5.9	5.3	4.8
110.0 /	5.0	5.5	5.2	4.8	4.3
100.0 /	3.0	3.2	3.1	2.8	2.6
90.0 /	2.1	2.5	2.6	2.5	2.4
80.0 /	1.8	1.9	1.8	1.7	1.6
70.0 /	2.3	2.4	2.3	2.2	2.0
60.0 /	3.0	3.2	3.0	2.8	2.5
50.0 /	2.6	2.7	2.6	2.3	2.1
40.0 /	2.0	2.1	2.0	1.8	1.6
30.0 /	1.3	1.4	1.3	1.2	1.0
20.0 /	1.3	1.5	1.5	1.4	1.3
10.0 /	1.6	1.5	1.7	1.6	1.4

INT-DAY
 183 DAYS
 SGROUP# 1
 YEAR 1971
 *** OSCEOLA FIVE YEAR PARTICULATE 0300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -5,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 12.7 AND OCCURRED AT (800.0, 260.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	RANGE (METERS)
					1400.0

360.0 /	1.8	2.1	2.2	2.2	2.1
350.0 /	3.3	3.8	3.7	3.4	3.2
340.0 /	4.7	5.2	5.0	4.5	4.0
330.0 /	6.0	6.4	6.0	5.4	4.9
320.0 /	7.3	8.0	7.5	6.7	6.0
310.0 /	7.0	7.6	7.2	6.4	5.8
300.0 /	6.0	6.2	5.7	5.1	4.6
290.0 /	6.3	6.5	6.1	5.5	4.9
280.0 /	7.9	8.0	7.4	6.5	5.7
270.0 /	10.0	10.2	9.3	8.2	7.2
260.0 /	12.4	12.7	11.5	10.0	8.7
250.0 /	11.5	11.7	10.4	8.9	7.7
240.0 /	8.1	8.3	7.5	6.5	5.7
230.0 /	4.4	4.3	3.9	3.3	2.9
220.0 /	2.9	2.9	2.6	2.3	2.0
210.0 /	2.0	2.2	2.0	1.8	1.6
200.0 /	1.6	1.6	1.5	1.3	1.1
190.0 /	2.0	2.0	1.8	1.5	1.3
180.0 /	2.6	2.8	2.7	2.5	2.3
170.0 /	2.8	2.9	2.8	2.5	2.3
160.0 /	2.4	2.6	2.5	2.4	2.2
150.0 /	2.8	3.1	3.1	3.0	2.8
140.0 /	4.5	5.2	5.3	5.0	4.7
130.0 /	5.0	5.7	5.7	5.3	4.9
120.0 /	3.8	4.2	4.1	3.8	3.5
110.0 /	2.7	3.0	3.0	2.8	2.6
100.0 /	1.8	1.9	1.9	1.7	1.6
90.0 /	1.8	1.9	1.9	1.8	1.7
80.0 /	1.9	1.9	1.8	1.6	1.5
70.0 /	2.1	2.1	1.9	1.6	1.4
60.0 /	2.0	2.0	1.9	1.7	1.6
50.0 /	1.9	2.1	2.1	2.0	1.9
40.0 /	1.6	1.8	1.7	1.6	1.5
30.0 /	1.6	1.7	1.6	1.5	1.3
20.0 /	1.5	1.8	1.8	1.7	1.6
10.0 /	1.4	1.6	1.7	1.6	1.5

INT-DAY
184 DAYS
SGROUP# 1
YEAR 1972
*** OSCEOLA FIVE YEAR PARTICULATE D300

*44

* 184-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* FROM SOURCES: 1, -5,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 11.3 AND OCCURRED AT (800.0, 270.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	RANGE (METERS) 1400.0
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360.0 /	3.5	4.0	4.0	3.7	3.5
350.0 /	3.4	3.7	3.6	3.2	3.0
340.0 /	4.5	4.9	4.6	4.1	3.7
330.0 /	5.6	5.9	5.4	4.8	4.3
320.0 /	5.9	6.1	5.6	5.0	4.4
310.0 /	7.0	7.1	6.5	5.8	5.2
300.0 /	7.5	7.6	6.9	6.1	5.4
290.0 /	8.2	8.8	8.3	7.4	6.6
280.0 /	8.6	9.0	8.3	7.3	6.5
270.0 /	10.5	11.3	10.6	9.4	8.3
260.0 /	10.3	11.0	10.3	9.1	8.0
250.0 /	8.5	8.9	8.2	7.2	6.4
240.0 /	7.5	7.6	6.9	6.0	5.2
230.0 /	6.4	7.0	6.4	5.5	4.8
220.0 /	4.0	3.9	3.4	2.9	2.4
210.0 /	2.5	2.6	2.3	2.0	1.7
200.0 /	1.7	1.8	1.6	1.4	1.2
190.0 /	1.6	1.6	1.5	1.3	1.1
180.0 /	2.3	2.4	2.2	1.9	1.7
170.0 /	3.2	3.4	3.2	2.9	2.6
160.0 /	3.7	4.1	3.9	3.5	3.2
150.0 /	3.4	3.5	3.2	2.8	2.5
140.0 /	4.8	5.2	5.0	4.5	4.0
130.0 /	4.2	4.5	4.3	3.9	3.6
120.0 /	3.9	4.4	4.3	4.0	3.6
110.0 /	3.4	3.8	3.7	3.4	3.1
100.0 /	2.5	2.7	2.5	2.3	2.2
90.0 /	1.9	2.0	1.9	1.8	1.7
80.0 /	1.6	1.7	1.7	1.5	1.5
70.0 /	1.7	2.0	2.0	1.9	1.8
60.0 /	2.2	2.3	2.3	2.1	2.0
50.0 /	2.8	3.0	2.9	2.6	2.4
40.0 /	3.0	3.3	3.3	3.0	2.7
30.0 /	2.3	2.5	2.5	2.3	2.1
20.0 /	2.3	2.7	2.8	2.6	2.5
10.0 /	2.2	2.6	2.6	2.4	2.2

N-DAY
183 DAYS
SGROUP# 1
YEAR 1973
*** OSCEOLA FIVE YEAR PARTICULATE D300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* FROM SOURCES: 1, -5,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 11.5 AND OCCURRED AT { 800.0, 250.0 } *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	1400.0	RANGE (METERS)
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360.0 /	2.0	2.2	2.1	1.9	1.8	
350.0 /	3.0	3.2	3.1	2.8	2.5	
340.0 /	4.1	4.4	4.2	3.8	3.5	
330.0 /	5.9	6.1	5.6	4.9	4.3	
320.0 /	9.2	9.6	8.9	7.8	6.9	
310.0 /	9.0	9.4	8.6	7.6	6.8	
300.0 /	8.8	9.4	8.7	7.8	6.9	
290.0 /	7.5	7.8	7.2	6.4	5.7	
280.0 /	7.5	7.5	6.8	6.0	5.3	
270.0 /	9.5	10.2	9.5	8.5	7.5	
260.0 /	10.5	11.0	10.0	8.7	7.6	
250.0 /	11.0	11.5	10.5	9.2	8.0	
240.0 /	8.2	8.6	7.8	6.8	6.0	
230.0 /	5.0	5.1	4.7	4.1	3.6	
220.0 /	4.9	5.0	4.5	3.9	3.4	
210.0 /	3.1	3.1	2.7	2.3	2.0	
200.0 /	1.8	1.9	1.7	1.5	1.3	
190.0 /	1.7	1.8	1.6	1.4	1.2	
180.0 /	2.7	2.9	2.8	2.5	2.2	
170.0 /	2.8	3.1	3.0	2.7	2.5	
160.0 /	3.4	3.9	4.0	3.7	3.5	
150.0 /	4.1	4.8	4.8	4.4	4.1	
140.0 /	5.3	6.0	6.0	5.6	5.1	
130.0 /	5.5	6.2	6.3	6.0	5.7	
120.0 /	4.9	5.6	5.5	5.1	4.7	
110.0 /	3.9	4.2	4.2	3.9	3.6	
100.0 /	2.4	2.6	2.6	2.4	2.3	
90.0 /	1.9	2.0	2.0	1.9	1.8	
80.0 /	1.5	1.5	1.4	1.3	1.2	
70.0 /	1.4	1.5	1.5	1.4	1.3	
60.0 /	1.4	1.4	1.3	1.1	1.0	
50.0 /	1.2	1.5	1.4	1.3	1.2	
40.0 /	1.1	1.3	1.3	1.2	1.2	
30.0 /	0.9	1.0	1.0	0.9	0.9	
20.0 /	1.0	1.8	1.8	1.7	1.6	
10.0 /	1.0	1.7	1.6	1.5	1.4	

183-DAY
183 DAYS
SGROUP# 1
YEAR 1974
*** OSCEOLA FIVE YEAR PARTICULATE D300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCE: 1, -5,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 12.0 AND OCCURRED AT (800.0, 270.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	1400.0	RANGE (METERS)
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360.0 /	2.2	2.3	2.2	2.0	1.9	
350.0 /	2.2	2.3	2.2	2.0	1.8	
340.0 /	3.6	3.7	3.5	3.1	2.8	
330.0 /	4.9	5.0	4.6	4.0	3.6	
320.0 /	6.2	6.3	5.7	5.1	4.5	
310.0 /	6.7	6.8	6.3	5.6	5.0	
300.0 /	6.7	6.8	6.2	5.5	4.9	
290.0 /	7.4	7.6	7.0	6.2	5.6	
280.0 /	8.7	8.8	8.0	7.0	6.2	
270.0 /	11.3	12.0	11.2	10.0	8.8	
260.0 /	11.2	11.7	10.8	9.4	8.3	
250.0 /	10.9	11.4	10.4	9.1	7.9	
240.0 /	10.0	10.3	9.3	8.0	7.0	
230.0 /	8.0	8.2	7.3	6.3	5.5	
220.0 /	5.4	5.4	4.9	4.2	3.6	
210.0 /	3.5	3.5	3.1	2.6	2.3	
200.0 /	3.2	3.2	2.9	2.5	2.1	
190.0 /	2.4	2.3	2.1	1.8	1.6	
180.0 /	3.2	3.3	3.0	2.6	2.3	
170.0 /	2.5	2.7	2.6	2.3	2.1	
160.0 /	2.8	3.1	3.1	2.9	2.7	
150.0 /	3.0	3.2	3.1	2.9	2.6	
140.0 /	4.4	5.0	4.9	4.5	4.2	
130.0 /	4.5	5.2	5.1	4.7	4.3	
120.0 /	2.6	2.7	2.7	2.5	2.3	
110.0 /	2.0	2.1	2.0	1.9	1.8	
100.0 /	1.7	1.8	1.6	1.5	1.3	
90.0 /	1.7	1.8	1.8	1.7	1.6	
80.0 /	1.8	1.8	1.8	1.6	1.5	
70.0 /	1.8	1.8	1.8	1.6	1.5	
60.0 /	2.2	2.4	2.3	2.1	2.0	
50.0 /	2.0	2.1	2.0	1.8	1.6	
40.0 /	1.7	1.8	1.6	1.5	1.3	
30.0 /	1.2	1.2	1.1	1.0	0.9	
20.0 /	1.2	1.2	1.1	1.0	0.9	
10.0 /	1.7	1.7	1.6	1.4	1.3	

2ND HIGH

24-HR

SGROUP# 1

YEAR 1970

*** OSCEOLA FIVE YEAR PARTICULATE D300

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, ~5,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 99.8 AND OCCURRED AT (600.0, 250.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	1400.0
360.0 /	28.9 (64, 1)	37.1 (71, 1)	31.9 (64, 1)	28.6 (64, 1)	26.9 (80, 1)
350.0 /	51.0 (87, 1)	50.6 (34, 1)	44.8 (47, 1)	39.5 (87, 1)	34.5 (87, 1)
340.0 /	59.7 (64, 1)	66.4 (47, 1)	63.9 (47, 1)	58.4 (47, 1)	53.4 (47, 1)
330.0 /	42.3 (33, 1)	42.8 (294, 1)	43.9 (294, 1)	41.0 (294, 1)	37.7 (294, 1)
320.0 /	60.6 (90, 1)	62.0 (90, 1)	55.8 (90, 1)	48.1 (90, 1)	41.5 (90, 1)
310.0 /	66.7 (293, 1)	74.1 (293, 1)	68.6 (293, 1)	60.5 (29, 1)	54.8 (91, 1)
300.0 /	48.1 (62, 1)	56.6 (62, 1)	55.5 (62, 1)	50.3 (62, 1)	45.1 (62, 1)
290.0 /	51.7 (303, 1)	60.0 (303, 1)	57.7 (303, 1)	51.5 (303, 1)	45.6 (303, 1)
280.0 /	64.1 (60, 1)	63.1 (60, 1)	54.7 (60, 1)	45.9 (60, 1)	38.7 (60, 1)
270.0 /	88.5 (252, 1)	89.7 (292, 1)	79.3 (292, 1)	69.2 (345, 1)	62.9 (345, 1)
260.0 /	78.2 (291, 1)	79.2 (344, 1)	76.8 (344, 1)	68.8 (344, 1)	61.7 (331, 1)
250.0 /	99.8 (280, 1)	97.3 (280, 1)	90.0 (331, 1)	83.5 (331, 1)	75.7 (331, 1)
240.0 /	61.1 (291, 1)	66.0 (284, 1)	61.7 (284, 1)	54.4 (284, 1)	47.7 (284, 1)
230.0 /	57.8 (250, 1)	57.3 (290, 1)	54.5 (278, 1)	50.0 (278, 1)	45.9 (278, 1)
220.0 /	49.3 (278, 1)	47.4 (277, 1)	42.6 (277, 1)	38.5 (277, 1)	34.4 (278, 1)
210.0 /	31.7 (58, 1)	26.9 (58, 1)	21.4 (58, 1)	19.3 (86, 1)	18.2 (86, 1)
200.0 /	29.6 (322, 1)	29.6 (304, 1)	25.1 (304, 1)	20.8 (304, 1)	17.4 (304, 1)
190.0 /	23.9 (75, 1)	26.3 (39, 1)	23.6 (39, 1)	20.2 (39, 1)	17.3 (39, 1)
180.0 /	34.2 (300, 1)	39.8 (300, 1)	37.7 (300, 1)	32.6 (51, 1)	26.6 (51, 1)
170.0 /	35.5 (52, 1)	38.4 (52, 1)	37.1 (24, 1)	34.4 (24, 1)	31.3 (24, 1)
160.0 /	42.5 (57, 1)	48.8 (57, 1)	46.9 (57, 1)	45.9 (54, 1)	42.1 (52, 1)
150.0 /	38.5 (52, 1)	43.7 (52, 1)	41.1 (52, 1)	36.0 (52, 1)	31.3 (52, 1)
140.0 /	49.7 (309, 1)	58.0 (309, 1)	55.1 (309, 1)	48.7 (309, 1)	42.7 (309, 1)
130.0 /	63.2 (7, 1)	66.2 (328, 1)	67.4 (8, 1)	61.8 (7, 1)	54.2 (7, 1)
120.0 /	42.2 (319, 1)	47.9 (319, 1)	44.6 (319, 1)	38.7 (319, 1)	33.4 (319, 1)
110.0 /	52.8 (41, 1)	57.9 (41, 1)	53.1 (41, 1)	46.0 (41, 1)	40.3 (20, 1)
100.0 /	44.5 (72, 1)	46.9 (72, 1)	42.2 (72, 1)	36.2 (72, 1)	31.1 (72, 1)
90.0 /	24.4 (306, 1)	25.1 (306, 1)	25.5 (365, 1)	23.8 (365, 1)	21.6 (365, 1)
80.0 /	32.0 (1, 1)	32.5 (68, 1)	31.3 (68, 1)	27.8 (68, 1)	24.4 (68, 1)
70.0 /	29.5 (327, 1)	27.9 (30, 1)	26.8 (298, 1)	23.7 (298, 1)	21.5 (30, 1)
60.0 /	40.6 (359, 1)	40.7 (327, 1)	35.0 (327, 1)	30.4 (81, 1)	27.0 (81, 1)
50.0 /	40.1 (56, 1)	36.1 (297, 1)	32.6 (40, 1)	28.6 (40, 1)	24.9 (40, 1)
40.0 /	24.4 (26, 1)	23.5 (6, 1)	23.0 (359, 1)	21.3 (359, 1)	19.4 (359, 1)
30.0 /	19.5 (50, 1)	16.9 (81, 1)	18.6 (23, 1)	18.4 (23, 1)	17.8 (23, 1)
20.0 /	22.0 (359, 1)	24.0 (56, 1)	23.1 (56, 1)	20.5 (56, 1)	18.0 (56, 1)
10.0 /	20.0 (81, 1)	20.6 (34, 1)	18.2 (318, 1)	15.8 (318, 1)	13.8 (318, 1)

2ND HIGHEST

24-HR

SGROUP# 1

YEAR 1971

*** OSCEOLA FIVE YEAR PARTICULATE D300

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -5,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 101.0 AND OCCURRED AT (600.0, 260.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	21.7 (307, 1)	25.6 (307, 1)	25.7 (307, 1)	25.6 (297, 1)	24.1 (39, 1)	
350.0 /	40.3 (38, 1)	44.1 (38, 1)	41.3 (38, 1)	37.0 (38, 1)	33.2 (38, 1)	
340.0 /	54.3 (38, 1)	58.4 (38, 1)	53.2 (38, 1)	46.1 (38, 1)	42.5 (59, 1)	
330.0 /	54.4 (36, 1)	59.6 (36, 1)	55.8 (36, 1)	49.5 (36, 1)	43.9 (36, 1)	
320.0 /	63.4 (36, 1)	70.4 (36, 1)	65.3 (36, 1)	56.9 (36, 1)	50.3 (51, 1)	
310.0 /	50.3 (52, 1)	60.0 (52, 1)	58.9 (52, 1)	53.7 (52, 1)	48.5 (52, 1)	
300.0 /	44.2 (348, 1)	48.6 (348, 1)	47.8 (348, 1)	44.2 (348, 1)	40.7 (348, 1)	
290.0 /	45.8 (348, 1)	51.9 (348, 1)	46.5 (35, 1)	39.2 (35, 1)	35.0 (362, 1)	
280.0 /	52.5 (323, 1)	63.0 (323, 1)	57.3 (34, 1)	47.6 (34, 1)	41.3 (353, 1)	
270.0 /	75.8 (3, 1)	85.8 (34, 1)	78.3 (91, 1)	71.1 (91, 1)	63.5 (91, 1)	
260.0 /	101.0 (320, 1)	100.9 (320, 1)	88.4 (320, 1)	76.5 (319, 1)	64.9 (319, 1)	
250.0 /	92.8 (320, 1)	93.0 (48, 1)	87.6 (48, 1)	76.8 (48, 1)	67.4 (335, 1)	
240.0 /	85.6 (357, 1)	78.8 (359, 1)	72.0 (359, 1)	62.5 (359, 1)	55.2 (277, 1)	
230.0 /	45.7 (359, 1)	46.7 (357, 1)	38.0 (357, 1)	32.2 (358, 1)	27.9 (358, 1)	
220.0 /	30.0 (317, 1)	29.8 (312, 1)	26.0 (312, 1)	21.9 (312, 1)	18.9 (301, 1)	
210.0 /	26.2 (80, 1)	27.0 (68, 1)	25.4 (68, 1)	22.3 (68, 1)	19.3 (68, 1)	
200.0 /	30.5 (86, 1)	29.0 (86, 1)	24.9 (86, 1)	20.9 (86, 1)	17.6 (86, 1)	
190.0 /	33.7 (76, 1)	33.5 (76, 1)	29.6 (76, 1)	25.5 (7, 1)	22.3 (7, 1)	
180.0 /	58.7 (352, 1)	39.0 (352, 1)	34.2 (352, 1)	29.0 (352, 1)	24.7 (352, 1)	
170.0 /	41.4 (329, 1)	42.4 (329, 1)	37.6 (329, 1)	32.0 (329, 1)	27.2 (329, 1)	
160.0 /	35.1 (314, 1)	38.8 (314, 1)	35.8 (314, 1)	31.1 (314, 1)	26.9 (314, 1)	
150.0 /	27.9 (315, 1)	32.3 (315, 1)	31.6 (317, 1)	20.3 (315, 1)	25.5 (315, 1)	
140.0 /	47.4 (16, 1)	54.0 (86, 1)	50.3 (86, 1)	47.9 (315, 1)	42.5 (16, 1)	
130.0 /	51.0 (19, 1)	59.1 (40, 1)	56.8 (40, 1)	51.1 (40, 1)	45.9 (40, 1)	
120.0 /	52.2 (65, 1)	56.3 (66, 1)	53.9 (66, 1)	47.9 (66, 1)	42.1 (66, 1)	
110.0 /	27.2 (19, 1)	31.0 (79, 1)	29.6 (295, 1)	34.1 (295, 1)	35.6 (295, 1)	
100.0 /	25.7 (54, 1)	26.8 (44, 1)	24.7 (44, 1)	21.5 (44, 1)	18.7 (44, 1)	
90.0 /	34.8 (15, 1)	41.4 (15, 1)	39.9 (15, 1)	35.5 (15, 1)	31.3 (15, 1)	
80.0 /	32.7 (44, 1)	31.9 (44, 1)	29.0 (7, 1)	26.0 (15, 1)	23.0 (15, 1)	
70.0 /	39.2 (15, 1)	36.7 (85, 1)	29.9 (82, 1)	23.8 (82, 1)	20.6 (75, 1)	
60.0 /	34.6 (331, 1)	32.2 (39, 1)	29.6 (39, 1)	24.9 (75, 1)	21.1 (75, 1)	
50.0 /	27.2 (75, 1)	25.0 (324, 1)	23.9 (18, 1)	23.6 (18, 1)	22.9 (286, 1)	
40.0 /	23.9 (283, 1)	24.6 (283, 1)	22.6 (283, 1)	20.4 (283, 1)	18.9 (283, 1)	
30.0 /	28.5 (85, 1)	25.1 (18, 1)	26.3 (62, 1)	21.8 (62, 1)	18.3 (62, 1)	
20.0 /	28.6 (66, 1)	33.5 (66, 1)	32.4 (66, 1)	29.3 (66, 1)	26.5 (66, 1)	
10.0 /	28.7 (39, 1)	36.4 (39, 1)	32.7 (37, 1)	31.0 (37, 1)	28.8 (37, 1)	

2ND HIGH

24-HR

SGROUP# 1

YEAR 1972

*** OSCOLA FIVE YEAR PARTICULATE D500

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* FROM SOURCES; 1, -5,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 94.2 AND OCCURRED AT (600.0, 240.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	57.7 (356, 1)	58.9 (356, 1)	54.8 (330, 1)	48.7 (330, 1)	42.9 (330, 1)	
350.0 /	41.6 (330, 1)	46.8 (330, 1)	44.0 (330, 1)	38.7 (330, 1)	33.8 (330, 1)	
340.0 /	38.6 (356, 1)	43.0 (341, 1)	42.1 (341, 1)	37.9 (341, 1)	33.6 (341, 1)	
330.0 /	54.4 (13, 1)	54.2 (301, 1)	50.8 (62, 1)	43.3 (62, 1)	37.1 (10, 1)	
320.0 /	64.0 (366, 1)	68.0 (366, 1)	62.1 (366, 1)	53.8 (366, 1)	46.5 (366, 1)	
310.0 /	59.2 (349, 1)	68.1 (349, 1)	64.8 (349, 1)	57.6 (349, 1)	50.8 (349, 1)	
300.0 /	58.8 (365, 1)	68.2 (365, 1)	65.2 (365, 1)	57.6 (340, 1)	53.7 (340, 1)	
290.0 /	53.1 (349, 1)	60.8 (348, 1)	59.3 (308, 1)	54.6 (308, 1)	50.4 (308, 1)	
280.0 /	59.7 (343, 1)	63.1 (343, 1)	58.7 (81, 1)	51.5 (348, 1)	46.6 (348, 1)	
270.0 /	69.9 (347, 1)	78.8 (347, 1)	73.6 (347, 1)	64.7 (347, 1)	57.7 (343, 1)	
260.0 /	67.7 (345, 1)	76.7 (18, 1)	75.6 (18, 1)	68.7 (18, 1)	61.6 (18, 1)	
250.0 /	79.8 (295, 1)	72.3 (295, 1)	59.6 (295, 1)	48.9 (353, 1)	41.8 (353, 1)	
240.0 /	94.2 (295, 1)	92.4 (285, 1)	78.0 (285, 1)	64.6 (285, 1)	54.0 (285, 1)	
230.0 /	77.9 (286, 1)	75.5 (287, 1)	71.3 (287, 1)	63.9 (287, 1)	57.2 (287, 1)	
220.0 /	68.3 (71, 1)	65.2 (71, 1)	55.0 (71, 1)	45.3 (71, 1)	37.7 (71, 1)	
210.0 /	44.0 (286, 1)	40.4 (286, 1)	36.9 (72, 1)	33.0 (72, 1)	29.2 (72, 1)	
200.0 /	42.7 (69, 1)	42.6 (69, 1)	37.2 (69, 1)	31.4 (69, 1)	26.6 (69, 1)	
190.0 /	33.3 (59, 1)	31.7 (66, 1)	29.7 (279, 1)	26.1 (279, 1)	22.1 (69, 1)	
180.0 /	30.7 (16, 1)	29.2 (16, 1)	24.8 (16, 1)	22.6 (7, 1)	19.1 (7, 1)	
170.0 /	45.7 (351, 1)	49.1 (40, 1)	48.2 (326, 1)	40.8 (326, 1)	34.6 (326, 1)	
160.0 /	44.0 (16, 1)	49.0 (336, 1)	45.6 (336, 1)	39.9 (336, 1)	34.7 (336, 1)	
150.0 /	37.6 (16, 1)	37.4 (16, 1)	31.2 (45, 1)	27.4 (16, 1)	23.2 (16, 1)	
140.0 /	63.4 (328, 1)	73.1 (328, 1)	60.1 (36, 1)	54.8 (36, 1)	49.0 (36, 1)	
130.0 /	53.7 (327, 1)	61.9 (51, 1)	57.9 (328, 1)	52.9 (328, 1)	47.7 (328, 1)	
120.0 /	45.0 (361, 1)	46.7 (361, 1)	45.2 (321, 1)	41.8 (321, 1)	38.3 (321, 1)	
110.0 /	36.8 (281, 1)	39.0 (281, 1)	40.0 (320, 1)	39.7 (320, 1)	34.8 (331, 1)	
100.0 /	46.7 (50, 1)	47.0 (50, 1)	46.4 (361, 1)	43.6 (44, 1)	37.6 (44, 1)	
90.0 /	27.0 (361, 1)	28.7 (361, 1)	27.8 (361, 1)	23.9 (44, 1)	22.4 (281, 1)	
80.0 /	23.9 (285, 1)	18.9 (49, 1)	17.9 (325, 1)	17.4 (44, 1)	16.5 (44, 1)	
70.0 /	21.5 (85, 1)	20.9 (44, 1)	22.4 (44, 1)	21.0 (44, 1)	19.2 (44, 1)	
60.0 /	31.1 (275, 1)	32.8 (78, 1)	31.7 (78, 1)	29.0 (78, 1)	26.4 (78, 1)	
50.0 /	39.7 (6, 1)	41.0 (47, 1)	39.5 (47, 1)	35.1 (47, 1)	30.9 (47, 1)	
40.0 /	41.8 (-6, 1)	36.3 (-6, 1)	30.9 (62, 1)	27.4 (82, 1)	24.6 (82, 1)	
30.0 /	29.6 (-85, 1)	31.0 (-33, 1)	28.3 (-5, 1)	27.3 (319, 1)	25.1 (33, 1)	
20.0 /	26.8 (351, 1)	30.3 (331, 1)	28.2 (331, 1)	20.2 (319, 1)	27.8 (319, 1)	
10.0 /	27.2 (274, 1)	27.0 (335, 1)	30.9 (335, 1)	29.6 (357, 1)	26.9 (312, 1)	

2ND HIGH

24-HR

SGROUP# 1

YEAR 1973

*** OSCEOLA FIVE YEAR PARTICULATE D300 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -5,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 102.1 AND OCCURRED AT (1000.0, 290.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS) 1000.0	1200.0	1400.0
360.0 /	23.2 (304, 1)	28.2 (76, 1)	29.1 (76, 1)	27.7 (22, 1)	25.7 (40, 1)
359.0 /	41.3 (91, 1)	45.7 (91, 1)	42.2 (91, 1)	37.1 (332, 1)	32.6 (332, 1)
340.0 /	37.9 (40, 1)	38.4 (40, 1)	36.6 (91, 1)	33.8 (91, 1)	32.3 (361, 1)
330.0 /	61.6 (84, 1)	58.5 (22, 1)	51.0 (22, 1)	43.3 (339, 1)	39.5 (339, 1)
320.0 /	75.7 (21, 1)	77.5 (21, 1)	69.5 (21, 1)	60.0 (329, 1)	53.3 (329, 1)
310.0 /	82.0 (90, 1)	88.3 (360, 1)	80.5 (360, 1)	69.7 (360, 1)	60.1 (360, 1)
300.0 /	67.5 (32, 1)	74.4 (70, 1)	77.2 (70, 1)	75.1 (70, 1)	72.8 (70, 1)
290.0 /	72.6 (65, 1)	97.2 (65, 1)	102.1 (65, 1)	95.9 (65, 1)	84.6 (32, 1)
280.0 /	50.4 (64, 1)	51.0 (65, 1)	47.0 (65, 1)	42.0 (65, 1)	37.2 (324, 1)
270.0 /	68.9 (322, 1)	73.4 (64, 1)	66.3 (64, 1)	57.2 (64, 1)	49.5 (353, 1)
260.0 /	91.1 (17, 1)	99.9 (17, 1)	91.4 (17, 1)	78.9 (17, 1)	68.0 (17, 1)
250.0 /	99.4 (285, 1)	98.6 (285, 1)	85.7 (285, 1)	72.9 (335, 1)	64.2 (291, 1)
240.0 /	66.9 (315, 1)	68.3 (315, 1)	62.4 (276, 1)	56.4 (276, 1)	50.5 (276, 1)
230.0 /	57.8 (315, 1)	56.7 (315, 1)	50.5 (334, 1)	44.9 (334, 1)	38.3 (294, 1)
220.0 /	95.6 (295, 1)	94.2 (295, 1)	81.6 (295, 1)	68.7 (295, 1)	58.1 (295, 1)
210.0 /	59.2 (295, 1)	59.4 (296, 1)	51.8 (296, 1)	43.5 (296, 1)	36.6 (296, 1)
200.0 /	37.3 (295, 1)	37.8 (295, 1)	33.4 (295, 1)	20.4 (295, 1)	24.2 (295, 1)
190.0 /	24.4 (299, 1)	24.2 (352, 1)	21.5 (352, 1)	18.2 (352, 1)	15.5 (352, 1)
180.0 /	31.7 (352, 1)	30.7 (297, 1)	31.7 (50, 1)	31.0 (50, 1)	29.1 (50, 1)
170.0 /	29.7 (81, 1)	35.5 (50, 1)	40.8 (50, 1)	39.7 (50, 1)	37.1 (50, 1)
160.0 /	32.3 (48, 1)	39.6 (50, 1)	48.6 (50, 1)	49.2 (50, 1)	47.0 (50, 1)
150.0 /	35.1 (53, 1)	41.9 (50, 1)	51.5 (50, 1)	52.9 (50, 1)	51.5 (50, 1)
140.0 /	56.5 (14, 1)	56.1 (14, 1)	52.3 (47, 1)	47.2 (47, 1)	42.2 (47, 1)
130.0 /	61.2 (42, 1)	67.3 (343, 1)	63.7 (343, 1)	57.0 (343, 1)	50.9 (343, 1)
120.0 /	46.9 (34, 1)	57.1 (34, 1)	56.0 (34, 1)	50.7 (34, 1)	45.4 (34, 1)
110.0 /	41.9 (342, 1)	49.2 (29, 1)	45.5 (29, 1)	39.7 (29, 1)	34.5 (29, 1)
100.0 /	32.1 (41, 1)	37.9 (350, 1)	36.5 (350, 1)	32.7 (350, 1)	28.0 (350, 1)
90.0 /	26.7 (76, 1)	32.0 (302, 1)	33.8 (302, 1)	32.2 (302, 1)	30.2 (302, 1)
80.0 /	25.6 (19, 1)	26.4 (85, 1)	24.2 (85, 1)	21.0 (85, 1)	18.2 (85, 1)
70.0 /	29.6 (19, 1)	27.2 (19, 1)	24.5 (19, 1)	21.7 (19, 1)	19.3 (19, 1)
60.0 /	23.7 (19, 1)	23.0 (8, 1)	20.9 (85, 1)	19.2 (85, 1)	17.8 (85, 1)
50.0 /	21.1 (80, 1)	23.6 (320, 1)	19.9 (320, 1)	16.5 (348, 1)	14.0 (348, 1)
40.0 /	31.1 (348, 1)	33.9 (348, 1)	31.0 (348, 1)	26.9 (348, 1)	23.4 (348, 1)
30.0 /	23.8 (89, 1)	27.1 (350, 1)	23.1 (350, 1)	20.3 (8, 1)	19.5 (8, 1)
20.0 /	30.2 (305, 1)	34.2 (305, 1)	32.6 (305, 1)	29.0 (305, 1)	25.7 (305, 1)
10.0 /	23.4 (27, 1)	23.7 (85, 1)	21.2 (85, 1)	18.6 (354, 1)	16.5 (354, 1)

HIGH
24-HR
SGROUP# 1
YEAR 1974

*** OSCEOLA FIVE YEAR PARTICULATE D300

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -5,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 114.4 AND OCCURRED AT (800.0, 240.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	43.2 (83, 1)	42.4 (53, 1)	39.8 (50, 1)	36.1 (50, 1)	33.8 (83, 1)	
350.0 /	39.6 (34, 1)	42.5 (38, 1)	39.0 (38, 1)	34.0 (38, 1)	29.7 (38, 1)	
340.0 /	62.2 (82, 1)	68.1 (82, 1)	63.1 (82, 1)	55.2 (82, 1)	48.3 (82, 1)	
330.0 /	60.7 (84, 1)	56.8 (84, 1)	49.7 (84, 1)	42.9 (84, 1)	37.8 (84, 1)	
320.0 /	48.6 (78, 1)	50.0 (78, 1)	49.7 (334, 1)	45.9 (334, 1)	41.4 (334, 1)	
310.0 /	47.2 (85, 1)	50.8 (28, 1)	51.5 (28, 1)	47.4 (28, 1)	43.0 (28, 1)	
300.0 /	60.9 (52, 1)	69.3 (52, 1)	67.0 (52, 1)	61.0 (52, 1)	55.2 (52, 1)	
290.0 /	55.2 (288, 1)	70.4 (358, 1)	72.7 (358, 1)	68.0 (358, 1)	62.5 (358, 1)	
280.0 /	54.7 (74, 1)	56.4 (321, 1)	53.3 (321, 1)	46.8 (321, 1)	42.7 (65, 1)	
270.0 /	103.4 (74, 1)	104.8 (74, 1)	99.6 (357, 1)	90.9 (357, 1)	82.4 (357, 1)	
260.0 /	80.7 (207, 1)	85.3 (321, 1)	78.3 (321, 1)	67.7 (321, 1)	58.5 (320, 1)	
250.0 /	96.4 (295, 1)	90.8 (295, 1)	76.9 (295, 1)	64.8 (65, 1)	56.7 (65, 1)	
240.0 /	106.9 (285, 1)	114.4 (285, 1)	104.0 (285, 1)	89.9 (285, 1)	77.5 (285, 1)	
230.0 /	97.9 (294, 1)	100.5 (294, 1)	89.1 (294, 1)	75.9 (294, 1)	64.7 (294, 1)	
220.0 /	114.3 (278, 1)	109.4 (278, 1)	93.4 (278, 1)	78.2 (278, 1)	66.0 (278, 1)	
210.0 /	75.8 (276, 1)	73.6 (276, 1)	63.3 (276, 1)	53.0 (276, 1)	44.7 (276, 1)	
200.0 /	67.7 (276, 1)	66.5 (276, 1)	57.5 (276, 1)	48.3 (276, 1)	40.8 (276, 1)	
190.0 /	40.6 (283, 1)	38.7 (283, 1)	32.9 (283, 1)	27.4 (283, 1)	23.1 (283, 1)	
180.0 /	70.9 (279, 1)	72.1 (279, 1)	63.7 (279, 1)	54.2 (279, 1)	46.2 (279, 1)	
170.0 /	46.5 (279, 1)	49.3 (279, 1)	45.8 (279, 1)	40.9 (279, 1)	36.7 (279, 1)	
160.0 /	38.4 (313, 1)	48.9 (313, 1)	49.6 (313, 1)	45.6 (313, 1)	41.2 (313, 1)	
150.0 /	36.3 (325, 1)	37.6 (56, 1)	38.5 (56, 1)	35.1 (56, 1)	31.5 (343, 1)	
140.0 /	50.6 (56, 1)	72.6 (56, 1)	71.5 (56, 1)	64.3 (56, 1)	56.9 (56, 1)	
130.0 /	65.0 (57, 1)	74.1 (57, 1)	69.8 (57, 1)	61.5 (57, 1)	53.8 (57, 1)	
120.0 /	37.7 (316, 1)	38.9 (316, 1)	35.0 (316, 1)	30.1 (316, 1)	27.0 (40, 1)	
110.0 /	32.6 (40, 1)	38.2 (40, 1)	36.3 (40, 1)	31.8 (40, 1)	27.7 (40, 1)	
100.0 /	32.0 (40, 1)	36.3 (40, 1)	34.1 (40, 1)	29.8 (40, 1)	25.9 (40, 1)	
90.0 /	36.3 (316, 1)	37.6 (56, 1)	36.0 (56, 1)	31.9 (56, 1)	28.3 (351, 1)	
80.0 /	44.0 (316, 1)	40.4 (316, 1)	34.2 (316, 1)	28.4 (316, 1)	23.8 (316, 1)	
70.0 /	52.5 (89, 1)	48.4 (89, 1)	44.6 (75, 1)	40.5 (75, 1)	36.5 (75, 1)	
60.0 /	52.3 (88, 1)	62.0 (280, 1)	66.0 (280, 1)	61.7 (280, 1)	56.2 (280, 1)	
50.0 /	52.2 (39, 1)	52.1 (39, 1)	45.9 (39, 1)	39.2 (39, 1)	33.8 (39, 1)	
40.0 /	41.3 (39, 1)	41.1 (39, 1)	36.5 (39, 1)	32.4 (89, 1)	30.7 (89, 1)	
30.0 /	26.5 (50, 1)	31.3 (50, 1)	29.2 (50, 1)	25.7 (50, 1)	22.4 (50, 1)	
20.0 /	70.9 (47, 1)	28.1 (47, 1)	17.3 (39, 1)	16.8 (39, 1)	16.3 (39, 1)	
10.0 /	35.4 (83, 1)	31.3 (47, 1)	28.8 (75, 1)	27.2 (75, 1)	25.0 (75, 1)	

2ND HIGH

24-HR

SGROUP# 1

YEAR 1974

*** OSCEOLA FIVE YEAR PARTICULATE D500

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1, -5,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 104.7 AND OCCURRED AT (600.0, 240.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS) 1000.0	1200.0	1400.0
360.0 /	37.8 (53, 1)	41.8 (50, 1)	39.5 (53, 1)	35.5 (83, 1)	32.7 (50, 1)
350.0 /	39.1 (50, 1)	37.9 (50, 1)	35.3 (50, 1)	31.0 (50, 1)	27.1 (50, 1)
340.0 /	48.6 (349, 1)	57.0 (349, 1)	55.0 (349, 1)	49.2 (349, 1)	43.5 (349, 1)
330.0 /	44.0 (354, 1)	48.4 (354, 1)	45.7 (354, 1)	41.2 (354, 1)	37.5 (354, 1)
320.0 /	45.6 (28, 1)	48.9 (334, 1)	46.0 (11, 1)	41.9 (11, 1)	38.2 (11, 1)
310.0 /	40.3 (28, 1)	45.0 (1, 1)	44.3 (1, 1)	40.8 (27, 1)	40.1 (27, 1)
300.0 /	50.9 (327, 1)	57.2 (358, 1)	56.0 (358, 1)	50.1 (358, 1)	44.2 (358, 1)
290.0 /	54.5 (358, 1)	49.7 (3, 1)	50.6 (63, 1)	48.1 (63, 1)	45.0 (63, 1)
280.0 /	49.1 (321, 1)	51.9 (74, 1)	50.0 (65, 1)	46.6 (65, 1)	41.8 (64, 1)
270.0 /	87.4 (357, 1)	102.3 (357, 1)	92.0 (74, 1)	77.9 (74, 1)	66.6 (361, 1)
260.0 /	77.3 (321, 1)	81.5 (287, 1)	74.7 (320, 1)	66.1 (320, 1)	58.3 (321, 1)
250.0 /	69.4 (287, 1)	77.3 (65, 1)	73.3 (65, 1)	63.9 (295, 1)	54.2 (287, 1)
240.0 /	<u>104.7 (295, 1)</u>	99.7 (295, 1)	84.6 (295, 1)	75.0 (306, 1)	66.4 (306, 1)
230.0 /	52.4 (284, 1)	97.3 (284, 1)	87.4 (284, 1)	74.8 (284, 1)	64.0 (284, 1)
220.0 /	80.6 (277, 1)	77.1 (283, 1)	74.3 (283, 1)	66.6 (283, 1)	59.3 (283, 1)
210.0 /	56.4 (275, 1)	58.2 (275, 1)	51.7 (275, 1)	44.1 (275, 1)	37.7 (275, 1)
200.0 /	48.7 (283, 1)	53.2 (283, 1)	49.1 (283, 1)	42.7 (283, 1)	37.0 (283, 1)
190.0 /	27.6 (276, 1)	29.1 (276, 1)	23.6 (363, 1)	21.6 (363, 1)	19.5 (363, 1)
180.0 /	45.6 (344, 1)	41.7 (344, 1)	35.3 (344, 1)	29.3 (332, 1)	24.9 (332, 1)
170.0 /	32.3 (281, 1)	34.7 (313, 1)	36.3 (313, 1)	32.7 (313, 1)	29.0 (313, 1)
160.0 /	34.9 (325, 1)	35.7 (325, 1)	31.5 (325, 1)	26.7 (325, 1)	23.0 (355, 1)
150.0 /	35.5 (339, 1)	36.2 (343, 1)	36.9 (343, 1)	34.4 (343, 1)	31.3 (56, 1)
140.0 /	55.1 (57, 1)	62.8 (57, 1)	58.7 (57, 1)	51.2 (57, 1)	44.4 (57, 1)
130.0 /	50.1 (338, 1)	53.0 (40, 1)	51.4 (40, 1)	46.3 (40, 1)	41.3 (40, 1)
120.0 /	31.4 (76, 1)	30.8 (40, 1)	31.3 (40, 1)	29.2 (40, 1)	25.8 (316, 1)
110.0 /	20.3 (335, 1)	32.4 (335, 1)	30.8 (335, 1)	27.4 (335, 1)	24.3 (335, 1)
100.0 /	24.1 (563, 1)	25.6 (55, 1)	25.3 (55, 1)	23.2 (55, 1)	21.2 (55, 1)
90.0 /	32.0 (55, 1)	33.5 (316, 1)	30.5 (316, 1)	29.3 (351, 1)	28.1 (55, 1)
80.0 /	41.4 (89, 1)	38.3 (89, 1)	32.2 (89, 1)	26.5 (89, 1)	22.5 (280, 1)
70.0 /	40.8 (75, 1)	46.1 (75, 1)	41.4 (89, 1)	35.2 (89, 1)	30.4 (89, 1)
60.0 /	44.6 (88, 1)	51.4 (88, 1)	45.6 (88, 1)	39.4 (88, 1)	34.3 (88, 1)
50.0 /	27.5 (31, 1)	29.6 (280, 1)	30.9 (280, 1)	28.3 (280, 1)	25.4 (280, 1)
40.0 /	34.7 (47, 1)	35.1 (47, 1)	33.4 (89, 1)	31.1 (59, 1)	26.9 (39, 1)
30.0 /	22.0 (342, 1)	20.1 (342, 1)	16.8 (68, 1)	15.2 (88, 1)	14.0 (68, 1)
20.0 /	14.5 (34, 1)	11.4 (39, 1)	17.1 (47, 1)	16.2 (34, 1)	16.0 (34, 1)
10.0 /	30.0 (47, 1)	29.1 (63, 1)	28.4 (47, 1)	24.5 (47, 1)	21.1 (47, 1)

Best Available Copy

*** OSCEOLA FIVE YEAR PARTICULATE D300 ***

COMPOSITE SECOND-HIGHEST 24-HOUR CONCENTRATION TABLE, ug/cu.m, FOR SOURCE GROUP 1

* FOR THE RECEPTOR GRID *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	57.7	58.9		54.8	48.7	42.9
350.0 /	51.0	50.6		44.8	39.5	34.5
340.0 /	59.7	66.4		63.9	58.4	53.4
330.0 /	61.6	59.6		55.8	49.5	43.9
320.0 /	75.7	77.5		69.5	60.0	53.3
310.0 /	82.0	88.3		80.5	69.7	60.1
300.0 /	67.5	74.4		77.2	75.1	72.8
290.0 /	72.6	97.2		<u>100.1</u>	95.9	84.6
280.0 /	64.1	63.1		58.7	51.5	46.6
270.0 /	88.5	102.3		92.0	77.9	66.6
260.0 /	101.0	100.9		91.4	78.9	68.0
250.0 /	99.6	98.6		90.0	83.5	75.7
240.0 /	<u>104.7</u>	99.7		84.6	75.0	66.4
230.0 /	92.4	97.3		87.4	74.8	64.0
220.0 /	95.6	94.2		81.6	68.7	59.3
210.0 /	59.2	59.4		51.8	44.1	37.7
200.0 /	48.7	53.2		49.1	42.7	37.0
190.0 /	33.7	33.5		29.7	26.1	22.3
180.0 /	45.6	41.7		37.7	32.6	29.1
170.0 /	45.7	49.1		48.2	40.8	37.1
160.0 /	44.0	49.0		48.6	49.2	47.0
150.0 /	38.5	43.7		51.5	52.9	51.5
140.0 /	63.4	73.1		60.1	54.8	49.0
130.0 /	63.2	67.3		67.4	61.8	54.2
120.0 /	52.2	57.1		56.0	50.7	45.4
110.0 /	52.8	57.9		53.1	46.0	40.3
100.0 /	46.7	47.0		46.4	43.6	37.6
90.0 /	34.8	41.4		39.9	35.5	31.3
80.0 /	41.9	50.3		32.2	27.8	24.4
70.0 /	40.8	46.1		41.4	35.2	30.4
60.0 /	49.6	51.4		45.6	39.4	34.3
50.0 /	49.1	41.0		39.5	35.1	30.9
40.0 /	41.6	36.3		33.4	31.1	26.9
30.0 /	29.6	31.0		26.3	27.3	25.1
20.0 /	30.2	34.2		32.6	29.3	27.8
10.0 /	36.7	36.4		32.7	31.0	28.8

183-DAY
183 DAYS
SGROUPN ?
YEAR 1970
*** OSCEOLA FIVE YEAR PARTICULATE D300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2, -6,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 11.6 AND OCCURRED AT (800.0, 250.0) *

DIRECTION / RANGE (METERS)
(DEGREES) / 600.0 800.0 1000.0 1200.0 1400.0

360.0 /	2.0	2.4	2.5	2.5	2.4
350.0 /	2.4	2.8	2.7	2.5	2.3
340.0 /	4.0	4.6	4.5	4.1	3.7
330.0 /	3.5	3.9	3.7	3.3	3.0
320.0 /	5.1	5.7	5.5	4.9	4.4
310.0 /	5.4	5.9	5.7	5.1	4.7
300.0 /	4.7	5.1	4.9	4.4	4.0
290.0 /	4.7	5.3	5.1	4.6	4.1
280.0 /	4.8	5.0	4.7	4.1	3.6
270.0 /	7.2	8.0	7.7	6.9	6.1
260.0 /	9.6	10.6	10.0	8.8	7.8
250.0 /	10.3	11.6	11.2	10.0	8.9
240.0 /	6.8	7.3	6.8	5.9	5.2
230.0 /	5.6	6.0	5.7	5.0	4.5
220.0 /	4.1	4.2	3.9	3.4	3.0
210.0 /	2.5	2.5	2.3	2.0	1.7
200.0 /	1.7	1.8	1.7	1.5	1.3
190.0 /	1.8	2.0	2.0	1.8	1.6
180.0 /	2.6	2.9	2.8	2.5	2.3
170.0 /	3.5	3.9	3.7	3.3	3.0
160.0 /	4.5	5.1	5.0	4.6	4.2
150.0 /	4.9	5.7	5.7	5.3	4.8
140.0 /	6.1	7.3	7.4	6.9	6.4
130.0 /	6.3	7.3	7.2	6.7	6.2
120.0 /	5.3	5.9	5.8	5.3	4.9
110.0 /	4.3	5.0	4.9	4.6	4.3
100.0 /	2.5	2.9	2.9	2.7	2.5
90.0 /	1.9	2.3	2.4	2.4	2.3
80.0 /	1.7	1.8	1.8	1.7	1.6
70.0 /	2.2	2.4	2.3	2.2	2.1
60.0 /	2.8	3.1	3.0	2.7	2.5
50.0 /	2.3	2.9	2.4	2.2	2.1
40.0 /	1.8	2.0	1.9	1.8	1.6
30.0 /	1.2	1.5	1.2	1.1	1.0
20.0 /	1.2	1.4	1.4	1.4	1.3
10.0 /	1.5	1.7	1.6	1.5	1.4

N-DAY
183 DAYS
SGROUP# 2
YEAR 1971
*** OSCEOLA FIVE YEAR PARTICULATE D300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2, -6,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 12.3 AND OCCURRED AT (800.0, 260.0) *

DIRECTION /
(DEGREES) / 600.0 800.0 1000.0 1200.0 1400.0 RANGE (METERS)

360.0 /	1.6	2.0	2.1	2.1	2.0
350.0 /	3.0	3.6	3.6	3.4	3.1
340.0 /	4.3	5.0	4.9	4.5	4.1
330.0 /	5.5	6.1	5.9	5.4	4.9
320.0 /	6.8	7.7	7.4	6.7	6.1
310.0 /	6.6	7.4	7.2	6.5	5.9
300.0 /	5.7	6.0	5.7	5.1	4.6
290.0 /	5.7	6.2	6.0	5.4	4.9
280.0 /	7.0	7.6	7.3	6.5	5.8
270.0 /	9.1	9.8	9.3	8.3	7.4
260.0 /	11.4	12.3	11.5	10.1	9.0
250.0 /	11.2	11.9	10.9	9.5	8.3
240.0 /	8.1	8.7	8.0	7.0	6.1
230.0 /	4.4	4.5	4.1	3.6	3.1
220.0 /	2.8	3.0	2.7	2.4	2.1
210.0 /	1.9	2.1	2.0	1.8	1.6
200.0 /	1.4	1.6	1.5	1.3	1.2
190.0 /	1.8	1.9	1.8	1.6	1.4
180.0 /	2.3	2.6	2.6	2.4	2.3
170.0 /	2.5	2.8	2.7	2.5	2.3
160.0 /	2.2	2.4	2.5	2.3	2.2
150.0 /	2.5	3.0	3.1	2.9	2.8
140.0 /	4.0	5.0	5.2	5.0	4.7
130.0 /	4.3	5.3	5.5	5.2	4.9
120.0 /	3.2	3.8	3.9	3.7	3.5
110.0 /	2.3	2.7	2.8	2.7	2.6
100.0 /	1.6	1.3	1.8	1.7	1.6
90.0 /	1.6	1.8	1.8	1.8	1.7
80.0 /	1.8	1.8	1.7	1.6	1.5
70.0 /	2.0	2.0	1.8	1.6	1.4
60.0 /	1.9	1.9	1.8	1.7	1.6
50.0 /	1.7	1.9	2.0	1.9	1.8
40.0 /	1.5	1.7	1.7	1.6	1.5
30.0 /	1.5	1.7	1.6	1.5	1.4
20.0 /	1.5	1.7	1.7	1.7	1.6
10.0 /	1.5	1.5	1.6	1.5	1.5

100-DAY
100 DAYS
SGROUPN 2
YEAR 1972
*** OSCEOLA FIVE YEAR PARTICULATE D300

* 100-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2, -6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 10.9 AND OCCURRED AT (800.0, 260.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	1400.0	RANGE (METERS)
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360.0 /	3.2	3.8	3.9	3.7	3.4	
350.0 /	3.1	3.5	3.5	3.2	3.0	
340.0 /	4.2	4.6	4.5	4.1	3.7	
330.0 /	5.3	5.7	5.4	4.8	4.4	
320.0 /	5.5	5.9	5.6	5.0	4.5	
310.0 /	6.4	6.8	6.4	5.8	5.2	
300.0 /	7.0	7.3	6.9	6.1	5.5	
290.0 /	7.6	8.5	8.2	7.5	6.8	
280.0 /	7.7	8.5	8.2	7.3	6.6	
270.0 /	9.5	10.8	10.5	9.5	8.5	
260.0 /	9.7	10.9	10.4	9.4	8.4	
250.0 /	8.1	9.0	8.5	7.6	6.7	
240.0 /	7.0	7.6	7.1	6.3	5.5	
230.0 /	6.6	7.1	6.6	5.8	5.1	
220.0 /	4.0	4.2	3.8	3.2	2.7	
210.0 /	2.3	2.5	2.4	2.1	1.8	
200.0 /	1.6	1.8	1.7	1.5	1.3	
190.0 /	1.4	1.6	1.5	1.3	1.2	
180.0 /	2.1	2.3	2.2	2.0	1.7	
170.0 /	2.9	3.3	3.2	2.9	2.6	
160.0 /	3.2	3.8	3.8	3.5	3.2	
150.0 /	3.1	3.4	3.2	2.9	2.6	
140.0 /	4.3	5.0	4.9	4.5	4.1	
130.0 /	3.7	4.2	4.2	3.9	3.6	
120.0 /	3.4	4.1	4.1	3.9	3.6	
110.0 /	2.9	3.5	3.5	3.3	3.0	
100.0 /	2.2	2.4	2.4	2.2	2.1	
90.0 /	1.7	1.9	1.8	1.7	1.7	
80.0 /	1.4	1.6	1.6	1.5	1.5	
70.0 /	1.6	1.9	2.0	1.9	1.9	
60.0 /	2.0	2.2	2.2	2.1	1.9	
50.0 /	2.7	2.9	2.8	2.6	2.4	
40.0 /	2.7	3.1	3.1	2.9	2.7	
30.0 /	2.2	2.4	2.4	2.2	2.1	
20.0 /	2.1	2.5	2.6	2.5	2.4	
10.0 /	2.0	2.4	2.5	2.4	2.2	

1 IN-DAY
 183 DAYS
 GROUP 2
 YEAR 1975
 *** OSCEOLA FIVE YEAR PARTICULATE D300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* FROM SOURCES: 2, -6,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 11.4 AND OCCURRED AT (800.0, 250.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	RANGE (METERS) 1400.0
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360.0 /	1.9	2.1	2.0	1.9	1.8
350.0 /	2.7	3.1	3.0	2.7	2.5
340.0 /	3.7	4.2	4.1	3.8	3.5
330.0 /	5.4	5.9	5.5	4.9	4.4
320.0 /	8.5	9.3	8.8	7.9	7.0
310.0 /	8.5	9.1	8.6	7.7	6.9
300.0 /	8.4	9.2	8.8	7.9	7.1
290.0 /	7.2	7.7	7.3	6.5	5.8
280.0 /	6.8	7.2	6.7	6.0	5.4
270.0 /	8.5	9.6	9.5	8.4	7.6
260.0 /	9.6	10.6	10.0	8.9	7.9
250.0 /	10.3	11.4	10.8	9.	8.4
240.0 /	8.0	8.7	8.2	7.2	6.4
230.0 /	4.9	5.2	4.9	4.3	3.8
220.0 /	4.5	4.9	4.6	4.0	3.5
210.0 /	3.1	3.2	2.9	2.5	2.2
200.0 /	1.7	1.9	1.8	1.6	1.4
190.0 /	1.5	1.7	1.6	1.4	1.3
180.0 /	2.4	2.8	2.8	2.5	2.3
170.0 /	2.4	2.9	2.9	2.7	2.5
160.0 /	3.0	3.6	3.8	3.7	3.4
150.0 /	3.6	4.4	4.6	4.4	4.1
140.0 /	4.8	5.7	5.8	5.5	5.1
130.0 /	4.7	5.7	6.0	5.8	5.5
120.0 /	4.3	5.2	5.3	5.0	4.7
110.0 /	3.1	3.8	3.8	3.7	3.5
100.0 /	2.1	2.4	2.4	2.3	2.2
90.0 /	1.6	1.9	1.9	1.9	1.7
80.0 /	1.3	1.4	1.3	1.2	1.1
70.0 /	1.3	1.5	1.5	1.4	1.3
60.0 /	1.7	1.3	1.2	1.1	1.0
50.0 /	1.2	1.4	1.4	1.3	1.2
40.0 /	1.0	1.2	1.2	1.2	1.1
30.0 /	0.9	1.0	1.0	0.9	0.9
20.0 /	1.4	1.7	1.7	1.6	1.6
10.0 /	1.5	1.7	1.6	1.5	1.4

1 IN 1-DAY
183 DAYS
SCROUP# 2
YEAR 1974
*** OSCEOLA FIVE YEAR PARTICULATE 0300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

() * FROM SOURCES: 2, -6,
* FOR THE RECEPTOR GRID *

() * MAXIMUM VALUE EQUALS 11.5 AND OCCURRED AT (800.0, 260.0) *

() DIRECTION / RANGE (METERS)
(DEGREES) / 600.0 800.0 1000.0 1200.0 1400.0

360.0 /	2.1	2.2	2.2	2.0	1.9
350.0 /	2.1	2.2	2.1	1.9	1.8
340.0 /	3.3	3.5	3.4	3.1	2.8
330.0 /	4.5	4.7	4.5	4.0	3.6
320.0 /	5.0	6.1	5.7	5.1	4.6
310.0 /	6.3	6.6	6.2	5.6	5.1
300.0 /	6.3	6.6	6.2	5.5	5.0
290.0 /	6.8	7.3	6.9	6.2	5.6
280.0 /	7.8	8.3	7.8	7.0	6.3
270.0 /	10.2	11.5	11.1	10.0	9.0
260.0 /	10.5	11.5	10.9	9.7	8.7
250.0 /	10.2	11.3	10.6	9.4	8.3
240.0 /	9.4	10.3	9.6	8.5	7.4
230.0 /	7.7	8.3	7.7	6.7	5.8
220.0 /	5.3	5.6	5.2	4.5	3.9
210.0 /	3.4	3.5	3.2	2.8	2.4
200.0 /	2.9	3.2	3.0	2.6	2.3
190.0 /	2.2	2.3	2.1	1.9	1.6
180.0 /	2.9	3.2	3.1	2.7	2.4
170.0 /	2.3	2.6	2.6	2.4	2.2
160.0 /	2.4	2.9	3.0	2.8	2.6
150.0 /	2.7	3.1	3.1	2.9	2.7
140.0 /	4.0	4.8	4.9	4.6	4.3
130.0 /	3.8	4.7	4.8	4.6	4.3
120.0 /	2.2	2.4	2.4	2.3	2.2
110.0 /	1.8	2.0	2.0	1.9	1.8
100.0 /	1.5	1.6	1.6	1.4	1.3
90.0 /	1.6	1.9	1.7	1.7	1.6
80.0 /	1.7	1.9	1.8	1.6	1.5
70.0 /	1.7	1.8	1.8	1.6	1.6
60.0 /	2.1	2.3	2.3	2.1	2.0
50.0 /	1.8	1.9	1.9	1.7	1.6
40.0 /	1.6	1.7	1.6	1.4	1.3
30.0 /	1.1	1.2	1.1	1.0	1.0
20.0 /	1.1	1.1	1.1	1.0	0.9
10.0 /	1.6	1.7	1.6	1.4	1.3

2ND HIGH

24-HR

SGROUPH 2

YEAR 1970

*** OSCEOLA FIVE YEAR PARTICULATE 0300

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2, -6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 103.0 AND OCCURRED AT (800.0, 250.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	600.0	800.0	1000.0	1200.0	1400.0
360.0 /	27.2 (64, 1)	32.2 (71, 1)	32.6 (34, 1)	28.6 (64, 1)	26.4 (80, 1)
350.0 /	48.7 (87, 1)	49.8 (87, 1)	45.3 (34, 1)	39.8 (47, 1)	35.5 (87, 1)
340.0 /	57.6 (64, 1)	66.8 (47, 1)	65.5 (47, 1)	60.3 (47, 1)	55.6 (47, 1)
330.0 /	44.3 (77, 1)	43.3 (294, 1)	44.8 (294, 1)	42.3 (294, 1)	39.2 (294, 1)
320.0 /	60.7 (90, 1)	63.5 (90, 1)	58.1 (90, 1)	50.6 (90, 1)	44.0 (90, 1)
310.0 /	60.9 (293, 1)	72.1 (293, 1)	69.2 (293, 1)	62.1 (29, 1)	59.4 (91, 1)
300.0 /	41.6 (62, 1)	51.4 (62, 1)	52.2 (62, 1)	48.3 (62, 1)	44.1 (62, 1)
290.0 /	46.5 (303, 1)	55.5 (303, 1)	54.7 (303, 1)	49.7 (303, 1)	44.7 (303, 1)
280.0 /	48.6 (60, 1)	52.1 (60, 1)	47.7 (60, 1)	41.5 (60, 1)	36.0 (60, 1)
270.0 /	79.9 (292, 1)	84.1 (292, 1)	76.9 (292, 1)	67.2 (292, 1)	62.7 (345, 1)
260.0 /	73.6 (291, 1)	76.7 (291, 1)	77.1 (344, 1)	71.0 (344, 1)	64.3 (344, 1)
250.0 /	101.7 (280, 1)	103.0 (280, 1)	92.3 (331, 1)	87.6 (331, 1)	80.6 (331, 1)
240.0 /	59.6 (291, 1)	67.2 (284, 1)	65.6 (284, 1)	59.0 (284, 1)	52.5 (284, 1)
230.0 /	50.6 (290, 1)	56.7 (278, 1)	56.8 (278, 1)	53.1 (278, 1)	49.3 (278, 1)
220.0 /	47.6 (278, 1)	48.1 (277, 1)	44.2 (277, 1)	40.3 (277, 1)	37.0 (278, 1)
210.0 /	31.7 (58, 1)	29.2 (58, 1)	24.1 (58, 1)	19.6 (86, 1)	18.8 (86, 1)
200.0 /	27.2 (322, 1)	29.9 (322, 1)	26.7 (304, 1)	22.5 (304, 1)	19.0 (304, 1)
190.0 /	22.7 (75, 1)	26.1 (39, 1)	24.5 (39, 1)	21.5 (39, 1)	18.6 (39, 1)
180.0 /	29.4 (300, 1)	37.7 (300, 1)	37.7 (300, 1)	34.2 (300, 1)	29.1 (51, 1)
170.0 /	32.3 (52, 1)	38.1 (52, 1)	37.0 (24, 1)	35.2 (24, 1)	32.0 (2, 1)
160.0 /	35.7 (57, 1)	44.9 (57, 1)	45.4 (57, 1)	43.2 (54, 1)	42.2 (54, 1)
150.0 /	33.1 (35, 1)	40.5 (35, 1)	40.2 (52, 1)	36.4 (52, 1)	32.3 (52, 1)
140.0 /	44.4 (309, 1)	56.1 (309, 1)	55.9 (309, 1)	50.7 (309, 1)	45.2 (309, 1)
130.0 /	52.7 (320, 1)	61.5 (8, 1)	66.3 (8, 1)	61.4 (7, 1)	55.0 (7, 1)
120.0 /	43.6 (72, 1)	49.4 (72, 1)	47.2 (319, 1)	42.2 (319, 1)	37.0 (319, 1)
110.0 /	48.2 (41, 1)	56.8 (41, 1)	54.4 (41, 1)	48.3 (41, 1)	42.4 (41, 1)
100.0 /	38.4 (72, 1)	44.3 (72, 1)	42.0 (72, 1)	37.0 (72, 1)	32.3 (68, 1)
90.0 /	21.9 (306, 1)	24.0 (306, 1)	25.7 (365, 1)	24.5 (365, 1)	22.7 (365, 1)
80.0 /	32.6 (1, 1)	32.0 (68, 1)	31.5 (68, 1)	28.4 (68, 1)	25.2 (68, 1)
70.0 /	30.6 (327, 1)	27.2 (298, 1)	26.1 (30, 1)	23.7 (30, 1)	21.3 (30, 1)
60.0 /	37.1 (359, 1)	40.6 (327, 1)	35.3 (327, 1)	30.4 (327, 1)	26.0 (81, 1)
50.0 /	38.5 (56, 1)	55.7 (297, 1)	33.0 (40, 1)	29.5 (40, 1)	26.1 (40, 1)
40.0 /	24.1 (1, 1)	24.8 (6, 1)	23.6 (6, 1)	20.8 (6, 1)	18.8 (359, 1)
30.0 /	18.7 (50, 1)	16.9 (50, 1)	16.6 (23, 1)	17.1 (23, 1)	16.8 (23, 1)
20.0 /	21.1 (35, 1)	24.3 (56, 1)	23.7 (56, 1)	21.3 (56, 1)	18.9 (56, 1)
10.0 /	19.1 (81, 1)	19.7 (318, 1)	19.0 (34, 1)	16.2 (318, 1)	14.2 (318, 1)

2ND HIGH

24-HR

SGROUP# 2

YEAR 1971

*** OSCEOLA FIVE YEAR PARTICULATE D300

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* FROM SOURCES: 2, -6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 100.8 AND OCCURRED AT (800.0, 250.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS) 1000.0	1200.0	1400.0
360.0 /	20.5 (307, 1)	24.4 (307, 1)	25.0 (307, 1)	23.5 (307, 1)	22.8 (297, 1)
350.0 /	37.3 (38, 1)	42.7 (38, 1)	41.1 (38, 1)	37.3 (38, 1)	33.9 (38, 1)
340.0 /	54.5 (38, 1)	60.3 (38, 1)	56.0 (38, 1)	49.1 (38, 1)	42.8 (38, 1)
330.0 /	50.2 (36, 1)	57.5 (36, 1)	55.3 (36, 1)	49.9 (36, 1)	44.8 (36, 1)
320.0 /	61.7 (4, 1)	68.5 (58, 1)	65.1 (36, 1)	58.6 (51, 1)	52.7 (4, 1)
310.0 /	50.5 (52, 1)	62.5 (52, 1)	62.6 (52, 1)	57.6 (52, 1)	52.4 (52, 1)
300.0 /	41.9 (340, 1)	46.1 (348, 1)	47.0 (348, 1)	44.2 (340, 1)	41.3 (348, 1)
290.0 /	41.7 (348, 1)	50.3 (348, 1)	48.6 (35, 1)	41.9 (35, 1)	36.0 (35, 1)
280.0 /	47.4 (323, 1)	60.0 (323, 1)	53.6 (34, 1)	46.8 (353, 1)	42.1 (353, 1)
270.0 /	65.1 (3, 1)	79.5 (3, 1)	79.9 (91, 1)	72.7 (34, 1)	65.7 (3, 1)
260.0 /	93.0 (319, 1)	98.0 (327, 1)	88.2 (327, 1)	75.7 (327, 1)	66.1 (319, 1)
250.0 /	98.9 (320, 1)	100.8 (320, 1)	95.9 (48, 1)	85.3 (48, 1)	74.9 (48, 1)
240.0 /	84.4 (367, 1)	80.8 (359, 1)	75.8 (359, 1)	66.7 (359, 1)	58.4 (277, 1)
230.0 /	45.0 (359, 1)	48.9 (359, 1)	42.8 (357, 1)	34.9 (33, 1)	30.3 (358, 1)
220.0 /	32.0 (317, 1)	33.1 (312, 1)	29.7 (312, 1)	25.3 (312, 1)	21.4 (312, 1)
210.0 /	23.9 (80, 1)	26.9 (68, 1)	26.7 (68, 1)	24.0 (68, 1)	21.1 (68, 1)
200.0 /	28.0 (352, 1)	29.7 (86, 1)	26.4 (86, 1)	22.5 (86, 1)	19.2 (86, 1)
190.0 /	31.0 (76, 1)	32.9 (76, 1)	30.2 (76, 1)	26.4 (7, 1)	23.5 (7, 1)
180.0 /	36.1 (352, 1)	39.4 (352, 1)	36.0 (352, 1)	31.1 (352, 1)	26.7 (352, 1)
170.0 /	38.6 (329, 1)	42.6 (329, 1)	39.3 (329, 1)	34.1 (329, 1)	29.4 (329, 1)
160.0 /	31.8 (300, 1)	36.7 (314, 1)	35.7 (314, 1)	31.9 (314, 1)	28.0 (314, 1)
150.0 /	23.3 (315, 1)	29.8 (315, 1)	30.4 (315, 1)	29.1 (317, 1)	26.9 (41, 1)
140.0 /	42.3 (80, 1)	54.1 (16, 1)	54.2 (86, 1)	49.1 (86, 1)	44.6 (16, 1)
130.0 /	49.9 (19, 1)	58.1 (63, 1)	57.1 (40, 1)	52.6 (40, 1)	47.8 (40, 1)
120.0 /	44.4 (63, 1)	52.1 (66, 1)	52.1 (66, 1)	47.6 (66, 1)	42.7 (66, 1)
110.0 /	25.0 (299, 1)	31.6 (54, 1)	30.4 (79, 1)	27.9 (295, 1)	29.9 (295, 1)
100.0 /	26.7 (298, 1)	25.7 (298, 1)	23.4 (298, 1)	21.0 (298, 1)	19.3 (298, 1)
90.0 /	33.5 (15, 1)	41.3 (15, 1)	41.0 (15, 1)	36.9 (15, 1)	32.8 (15, 1)
80.0 /	31.0 (82, 1)	27.5 (44, 1)	25.1 (7, 1)	26.1 (7, 1)	23.3 (15, 1)
70.0 /	35.7 (85, 1)	37.1 (82, 1)	30.4 (82, 1)	24.6 (82, 1)	20.5 (75, 1)
60.0 /	33.6 (324, 1)	30.9 (39, 1)	29.6 (39, 1)	25.5 (75, 1)	21.8 (75, 1)
50.0 /	23.3 (75, 1)	24.1 (324, 1)	24.5 (337, 1)	23.2 (18, 1)	22.5 (18, 1)
40.0 /	26.2 (283, 1)	27.6 (283, 1)	25.4 (283, 1)	22.9 (283, 1)	20.9 (283, 1)
30.0 /	29.0 (62, 1)	25.0 (18, 1)	25.3 (62, 1)	21.5 (62, 1)	18.3 (62, 1)
20.0 /	27.4 (283, 1)	32.3 (66, 1)	32.0 (66, 1)	29.3 (66, 1)	26.8 (66, 1)
10.0 /	37.1 (283, 1)	37.4 (39, 1)	32.3 (39, 1)	30.4 (37, 1)	28.6 (37, 1)

2ND HIGH

24-HR

SGROUP# 2

YEAR 1972

*** OSCEOLA FIVE YEAR PARTICULATE D300

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* FROM SOURCES: 2, -6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 94.3 AND OCCURRED AT (800.0, 240.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS) 1000.0	1200.0	1400.0
360.0 /	52.4 (357, 1)	59.0 (356, 1)	53.5 (330, 1)	48.4 (330, 1)	43.2 (330, 1)
350.0 /	39.6 (330, 1)	45.9 (330, 1)	44.3 (330, 1)	39.6 (330, 1)	35.0 (330, 1)
340.0 /	43.8 (356, 1)	42.5 (356, 1)	37.4 (341, 1)	34.7 (341, 1)	31.6 (341, 1)
330.0 /	52.4 (13, 1)	56.5 (341, 1)	52.6 (62, 1)	45.5 (62, 1)	39.6 (11, 1)
320.0 /	58.4 (366, 1)	65.5 (366, 1)	61.8 (366, 1)	54.6 (366, 1)	47.9 (366, 1)
310.0 /	51.7 (349, 1)	63.1 (349, 1)	62.2 (349, 1)	56.5 (349, 1)	50.7 (349, 1)
300.0 /	54.3 (365, 1)	66.6 (365, 1)	66.1 (365, 1)	61.1 (340, 1)	57.5 (340, 1)
290.0 /	57.8 (308, 1)	63.3 (308, 1)	66.5 (349, 1)	59.3 (349, 1)	53.3 (308, 1)
280.0 /	52.8 (297, 1)	57.9 (311, 1)	57.9 (348, 1)	53.8 (348, 1)	49.0 (348, 1)
270.0 /	67.6 (297, 1)	75.3 (297, 1)	72.9 (297, 1)	66.3 (297, 1)	61.1 (343, 1)
260.0 /	70.8 (345, 1)	80.4 (345, 1)	77.0 (18, 1)	71.2 (18, 1)	64.7 (18, 1)
250.0 /	73.1 (295, 1)	71.5 (295, 1)	61.5 (295, 1)	52.3 (353, 1)	45.3 (353, 1)
240.0 /	93.4 (285, 1)	94.3 (285, 1)	82.5 (285, 1)	69.6 (285, 1)	58.8 (285, 1)
230.0 /	74.5 (285, 1)	76.1 (286, 1)	72.9 (287, 1)	66.7 (287, 1)	60.5 (287, 1)
220.0 /	74.2 (71, 1)	73.6 (286, 1)	63.4 (286, 1)	53.0 (286, 1)	44.6 (286, 1)
210.0 /	45.7 (286, 1)	49.1 (286, 1)	37.4 (286, 1)	32.5 (72, 1)	29.3 (72, 1)
200.0 /	57.8 (69, 1)	41.0 (69, 1)	37.5 (69, 1)	32.4 (69, 1)	27.9 (69, 1)
190.0 /	31.4 (59, 1)	31.1 (59, 1)	30.0 (279, 1)	27.1 (279, 1)	24.0 (279, 1)
180.0 /	29.8 (16, 1)	30.2 (16, 1)	26.5 (16, 1)	22.4 (16, 1)	20.7 (7, 1)
170.0 /	44.1 (351, 1)	46.3 (351, 1)	46.7 (40, 1)	42.9 (326, 1)	36.8 (326, 1)
160.0 /	41.3 (16, 1)	47.5 (16, 1)	44.8 (336, 1)	40.4 (336, 1)	35.8 (336, 1)
150.0 /	33.6 (16, 1)	36.2 (16, 1)	32.9 (16, 1)	28.1 (328, 1)	24.3 (16, 1)
140.0 /	58.9 (328, 1)	73.0 (328, 1)	64.0 (280, 1)	54.7 (36, 1)	49.9 (36, 1)
130.0 /	46.4 (327, 1)	60.1 (51, 1)	57.1 (51, 1)	51.3 (51, 1)	46.0 (51, 1)
120.0 /	58.7 (327, 1)	43.2 (361, 1)	42.8 (321, 1)	40.2 (321, 1)	37.3 (321, 1)
110.0 /	36.0 (281, 1)	39.7 (281, 1)	40.0 (320, 1)	38.0 (77, 1)	34.1 (361, 1)
100.0 /	44.7 (50, 1)	47.2 (50, 1)	43.7 (361, 1)	42.0 (361, 1)	39.8 (361, 1)
90.0 /	23.5 (44, 1)	24.9 (49, 1)	24.7 (88, 1)	22.7 (361, 1)	22.1 (281, 1)
80.0 /	22.1 (283, 1)	18.3 (283, 1)	18.5 (44, 1)	15.1 (325, 1)	14.8 (325, 1)
70.0 /	20.0 (48, 1)	24.7 (85, 1)	22.4 (85, 1)	20.2 (85, 1)	18.6 (85, 1)
60.0 /	32.4 (275, 1)	32.7 (78, 1)	31.6 (78, 1)	29.1 (78, 1)	26.7 (78, 1)
50.0 /	35.6 (38, 1)	40.2 (47, 1)	39.5 (47, 1)	35.5 (38, 1)	31.5 (38, 1)
40.0 /	38.1 (6, 1)	35.0 (6, 1)	29.7 (6, 1)	26.2 (82, 1)	23.8 (82, 1)
30.0 /	31.4 (85, 1)	30.4 (33, 1)	29.0 (5, 1)	25.6 (319, 1)	25.8 (319, 1)
20.0 /	24.1 (331, 1)	28.6 (331, 1)	27.5 (331, 1)	26.1 (319, 1)	26.4 (319, 1)
10.0 /	26.1 (357, 1)	24.7 (302, 1)	28.1 (335, 1)	28.2 (335, 1)	26.7 (357, 1)

2ND HIGH,

24-HR

SGROUP# 2

YEAR 1973

*** OSCEOLA FIVE YEAR PARTICULATE D500 ***

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2, -6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 105.5 AND OCCURRED AT (800.0, 260.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	22.2 (304, 1)	26.2 (76, 1)	27.9 (76, 1)	26.8 (22, 1)	26.0 (40, 1)	
350.0 /	38.9 (91, 1)	44.9 (91, 1)	42.6 (91, 1)	37.8 (91, 1)	33.2 (91, 1)	
340.0 /	37.6 (84, 1)	39.2 (40, 1)	35.5 (91, 1)	33.2 (91, 1)	31.0 (91, 1)	
330.0 /	59.1 (84, 1)	58.0 (22, 1)	51.9 (22, 1)	44.5 (22, 1)	40.0 (339, 1)	
320.0 /	69.5 (21, 1)	74.4 (21, 1)	69.8 (329, 1)	62.7 (329, 1)	56.3 (329, 1)	
310.0 /	78.9 (90, 1)	85.9 (90, 1)	80.0 (360, 1)	70.5 (360, 1)	61.7 (360, 1)	
300.0 /	66.7 (74, 1)	76.4 (70, 1)	80.0 (70, 1)	78.0 (70, 1)	75.8 (70, 1)	
290.0 /	62.9 (65, 1)	87.7 (65, 1)	95.4 (65, 1)	91.6 (65, 1)	85.8 (65, 1)	
280.0 /	52.4 (32, 1)	53.3 (65, 1)	51.5 (65, 1)	45.6 (65, 1)	40.2 (65, 1)	
270.0 /	65.7 (322, 1)	70.4 (64, 1)	64.1 (64, 1)	57.7 (353, 1)	52.7 (324, 1)	
260.0 /	89.9 (17, 1)	105.5 (17, 1)	100.0 (17, 1)	87.3 (286, 1)	75.6 (286, 1)	
250.0 /	90.0 (285, 1)	94.7 (285, 1)	86.3 (335, 1)	77.8 (335, 1)	69.0 (335, 1)	
240.0 /	71.9 (316, 1)	77.8 (285, 1)	67.8 (285, 1)	56.6 (285, 1)	48.7 (276, 1)	
230.0 /	60.0 (315, 1)	62.5 (294, 1)	55.8 (294, 1)	47.6 (294, 1)	40.6 (294, 1)	
220.0 /	89.4 (295, 1)	94.8 (295, 1)	85.3 (295, 1)	73.2 (295, 1)	62.6 (295, 1)	
210.0 /	61.4 (295, 1)	62.4 (295, 1)	56.6 (293, 1)	50.0 (293, 1)	43.3 (296, 1)	
200.0 /	36.3 (295, 1)	39.3 (295, 1)	35.8 (295, 1)	30.9 (295, 1)	26.6 (295, 1)	
190.0 /	23.6 (299, 1)	23.1 (352, 1)	21.5 (352, 1)	18.8 (352, 1)	16.2 (352, 1)	
180.0 /	26.3 (81, 1)	30.3 (297, 1)	28.7 (297, 1)	29.0 (50, 1)	28.0 (50, 1)	
170.0 /	26.7 (81, 1)	30.0 (297, 1)	36.2 (50, 1)	36.9 (50, 1)	35.6 (50, 1)	
160.0 /	28.3 (15, 1)	35.5 (48, 1)	43.1 (50, 1)	45.8 (50, 1)	45.2 (50, 1)	
150.0 /	33.9 (297, 1)	40.9 (297, 1)	43.4 (50, 1)	46.8 (50, 1)	47.1 (50, 1)	
140.0 /	54.0 (14, 1)	53.6 (47, 1)	52.4 (47, 1)	47.8 (47, 1)	43.2 (47, 1)	
130.0 /	53.6 (42, 1)	65.5 (343, 1)	63.9 (343, 1)	58.2 (343, 1)	52.6 (343, 1)	
120.0 /	41.0 (25, 1)	56.8 (12, 1)	55.4 (12, 1)	50.7 (34, 1)	46.3 (34, 1)	
110.0 /	36.0 (29, 1)	42.5 (29, 1)	41.5 (29, 1)	37.4 (29, 1)	33.3 (29, 1)	
100.0 /	31.1 (41, 1)	35.1 (350, 1)	35.2 (350, 1)	32.3 (350, 1)	29.1 (350, 1)	
90.0 /	26.8 (89, 1)	29.9 (302, 1)	32.6 (302, 1)	31.7 (302, 1)	30.3 (302, 1)	
80.0 /	28.3 (19, 1)	24.7 (19, 1)	22.4 (85, 1)	20.1 (85, 1)	17.8 (85, 1)	
70.0 /	25.5 (19, 1)	24.3 (19, 1)	23.9 (29, 1)	20.3 (320, 1)	18.1 (19, 1)	
60.0 /	21.9 (8, 1)	22.1 (8, 1)	20.1 (8, 1)	18.0 (8, 1)	16.9 (85, 1)	
50.0 /	22.3 (89, 1)	24.2 (348, 1)	21.9 (348, 1)	18.7 (348, 1)	15.9 (348, 1)	
40.0 /	27.6 (348, 1)	31.7 (348, 1)	30.0 (348, 1)	26.7 (348, 1)	23.6 (348, 1)	
30.0 /	21.0 (89, 1)	27.4 (80, 1)	24.1 (350, 1)	20.3 (350, 1)	19.2 (8, 1)	
20.0 /	28.2 (305, 1)	32.4 (80, 1)	32.0 (305, 1)	29.1 (305, 1)	26.0 (305, 1)	
10.0 /	21.5 (77, 1)	24.1 (85, 1)	22.0 (85, 1)	19.1 (85, 1)	16.9 (354, 1)	

HIGH
24-HR
SGROUP# 2
YEAR 1974
*** OSCEOLA FIVE YEAR PARTICULATE D300

* HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)
* FROM SOURCES: 2, -6,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 117.6 AND OCCURRED AT (800.0, 220.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	41.8 (83, 1)	41.2 (53, 1)	39.9 (50, 1)	36.7 (50, 1)	33.6 (50, 1)	
350.0 /	37.5 (30, 1)	41.8 (38, 1)	39.3 (38, 1)	34.9 (38, 1)	30.8 (38, 1)	
340.0 /	59.2 (82, 1)	67.3 (82, 1)	63.7 (82, 1)	56.7 (82, 1)	50.1 (82, 1)	
330.0 /	63.1 (84, 1)	59.6 (84, 1)	52.5 (84, 1)	45.5 (84, 1)	40.1 (84, 1)	
320.0 /	48.7 (78, 1)	51.7 (78, 1)	51.3 (334, 1)	47.9 (334, 1)	43.7 (334, 1)	
310.0 /	46.3 (85, 1)	45.8 (10, 1)	47.5 (28, 1)	44.7 (28, 1)	41.3 (28, 1)	
300.0 /	59.9 (52, 1)	70.6 (52, 1)	69.6 (52, 1)	64.0 (52, 1)	58.4 (52, 1)	
290.0 /	56.3 (288, 1)	68.9 (358, 1)	73.8 (358, 1)	70.3 (358, 1)	65.5 (358, 1)	
280.0 /	47.7 (86, 1)	54.8 (321, 1)	54.3 (321, 1)	49.0 (321, 1)	43.5 (321, 1)	
270.0 /	98.3 (74, 1)	104.9 (74, 1)	96.1 (357, 1)	89.3 (357, 1)	82.2 (357, 1)	
260.0 /	74.7 (321, 1)	87.3 (321, 1)	82.9 (321, 1)	72.8 (321, 1)	63.4 (321, 1)	
250.0 /	82.7 (295, 1)	84.4 (295, 1)	75.7 (65, 1)	68.3 (65, 1)	60.7 (65, 1)	
240.0 /	112.9 (295, 1)	112.7 (295, 1)	103.5 (285, 1)	91.8 (285, 1)	80.5 (285, 1)	
230.0 /	58.7 (294, 1)	106.2 (294, 1)	96.6 (294, 1)	83.3 (294, 1)	71.5 (294, 1)	
220.0 /	110.1 (278, 1)	117.6 (278, 1)	103.2 (278, 1)	87.4 (278, 1)	74.3 (278, 1)	
210.0 /	71.2 (276, 1)	74.1 (276, 1)	66.1 (276, 1)	56.3 (276, 1)	48.0 (276, 1)	
200.0 /	66.4 (276, 1)	69.7 (276, 1)	62.3 (276, 1)	53.1 (276, 1)	45.2 (276, 1)	
190.0 /	39.8 (283, 1)	40.5 (283, 1)	35.5 (283, 1)	30.0 (283, 1)	25.5 (283, 1)	
180.0 /	66.2 (279, 1)	72.5 (279, 1)	66.7 (279, 1)	57.8 (279, 1)	49.9 (279, 1)	
170.0 /	41.9 (279, 1)	48.0 (279, 1)	46.4 (279, 1)	42.2 (279, 1)	38.3 (279, 1)	
160.0 /	34.3 (325, 1)	43.2 (313, 1)	46.5 (313, 1)	44.3 (313, 1)	41.0 (313, 1)	
150.0 /	32.9 (291, 1)	37.4 (56, 1)	40.2 (56, 1)	37.5 (56, 1)	33.9 (56, 1)	
140.0 /	51.6 (57, 1)	65.8 (56, 1)	68.6 (56, 1)	63.7 (56, 1)	57.5 (56, 1)	
130.0 /	52.8 (57, 1)	65.1 (57, 1)	64.6 (57, 1)	58.7 (57, 1)	52.5 (57, 1)	
120.0 /	34.7 (316, 1)	37.2 (316, 1)	34.6 (316, 1)	30.4 (316, 1)	27.1 (40, 1)	
110.0 /	32.6 (40, 1)	40.5 (40, 1)	40.0 (40, 1)	35.8 (40, 1)	31.4 (40, 1)	
100.0 /	23.9 (56, 1)	29.6 (40, 1)	29.6 (40, 1)	27.0 (40, 1)	24.2 (40, 1)	
90.0 /	39.4 (316, 1)	37.1 (316, 1)	33.5 (316, 1)	29.9 (316, 1)	27.5 (351, 1)	
80.0 /	47.3 (89, 1)	45.4 (89, 1)	38.8 (89, 1)	32.1 (89, 1)	26.8 (89, 1)	
70.0 /	49.8 (89, 1)	48.7 (75, 1)	48.1 (75, 1)	44.2 (75, 1)	40.3 (75, 1)	
60.0 /	54.3 (68, 1)	56.2 (280, 1)	62.9 (280, 1)	60.6 (280, 1)	56.4 (280, 1)	
50.0 /	51.3 (39, 1)	52.6 (39, 1)	47.3 (39, 1)	41.0 (39, 1)	35.7 (39, 1)	
40.0 /	36.0 (39, 1)	37.7 (39, 1)	34.5 (39, 1)	30.5 (39, 1)	29.5 (39, 1)	
30.0 /	28.5 (50, 1)	32.0 (50, 1)	30.4 (50, 1)	27.1 (50, 1)	23.9 (50, 1)	
20.0 /	20.1 (47, 1)	20.1 (47, 1)	17.6 (47, 1)	16.3 (39, 1)	16.0 (39, 1)	
10.0 /	36.3 (65, 1)	30.5 (47, 1)	26.4 (47, 1)	26.0 (75, 1)	24.4 (75, 1)	

2ND HIGH

24-HR

SGROUP# 2

YEAR 1974

*** OSCEOLA FIVE YEAR PARTICULATE D500

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2, -6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 108.7 AND OCCURRED AT (800.0, 240.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	35.6 (50, 1)	41.0 (50, 1)	39.4 (53, 1)	35.0 (53, 1)	33.5 (83, 1)	
350.0 /	37.5 (38, 1)	36.6 (50, 1)	35.0 (50, 1)	31.3 (50, 1)	27.7 (50, 1)	
340.0 /	48.1 (38, 1)	53.5 (349, 1)	53.4 (349, 1)	48.8 (349, 1)	43.9 (349, 1)	
330.0 /	41.3 (9, 1)	49.0 (9, 1)	43.9 (354, 1)	40.6 (354, 1)	37.5 (354, 1)	
320.0 /	45.5 (28, 1)	49.7 (334, 1)	47.4 (78, 1)	42.1 (11, 1)	38.9 (11, 1)	
310.0 /	41.7 (10, 1)	45.7 (28, 1)	44.3 (10, 1)	41.0 (10, 1)	38.0 (10, 1)	
300.0 /	52.5 (329, 1)	50.5 (27, 1)	50.2 (358, 1)	46.2 (358, 1)	41.8 (26, 1)	
290.0 /	52.9 (68, 1)	50.7 (68, 1)	46.9 (63, 1)	45.4 (63, 1)	43.2 (63, 1)	
280.0 /	46.4 (23, 1)	48.3 (23, 1)	48.7 (65, 1)	46.4 (65, 1)	43.3 (65, 1)	
270.0 /	78.1 (357, 1)	95.7 (357, 1)	95.0 (74, 1)	81.8 (74, 1)	72.2 (361, 1)	
260.0 /	73.9 (287, 1)	82.9 (320, 1)	79.2 (320, 1)	70.9 (320, 1)	63.3 (320, 1)	
250.0 /	70.1 (287, 1)	79.5 (296, 1)	75.6 (287, 1)	67.0 (287, 1)	58.8 (287, 1)	
240.0 /	94.1 (285, 1)	108.7 (285, 1)	97.6 (295, 1)	81.8 (295, 1)	68.9 (295, 1)	
230.0 /	87.0 (284, 1)	98.4 (284, 1)	91.7 (284, 1)	80.0 (284, 1)	69.2 (284, 1)	
220.0 /	81.1 (277, 1)	78.7 (277, 1)	75.8 (283, 1)	69.6 (283, 1)	62.8 (283, 1)	
210.0 /	54.7 (277, 1)	57.5 (275, 1)	53.3 (275, 1)	46.5 (275, 1)	40.2 (275, 1)	
200.0 /	43.7 (283, 1)	51.9 (283, 1)	50.3 (283, 1)	44.9 (283, 1)	39.5 (283, 1)	
190.0 /	28.5 (276, 1)	27.3 (276, 1)	23.5 (363, 1)	22.1 (363, 1)	20.3 (363, 1)	
180.0 /	43.3 (344, 1)	42.1 (344, 1)	36.8 (344, 1)	31.3 (332, 1)	26.9 (332, 1)	
170.0 /	28.9 (281, 1)	34.3 (313, 1)	35.9 (313, 1)	33.3 (313, 1)	30.1 (313, 1)	
160.0 /	30.6 (313, 1)	37.6 (325, 1)	34.4 (325, 1)	29.7 (325, 1)	25.5 (325, 1)	
150.0 /	32.9 (325, 1)	35.7 (325, 1)	35.4 (343, 1)	34.0 (343, 1)	31.9 (343, 1)	
140.0 /	48.2 (56, 1)	63.4 (57, 1)	61.7 (57, 1)	54.8 (57, 1)	48.0 (57, 1)	
130.0 /	47.2 (338, 1)	49.0 (40, 1)	50.2 (40, 1)	46.5 (40, 1)	42.3 (40, 1)	
120.0 /	29.0 (76, 1)	29.6 (76, 1)	29.4 (40, 1)	28.5 (40, 1)	26.5 (316, 1)	
110.0 /	25.2 (336, 1)	29.7 (335, 1)	28.9 (335, 1)	26.0 (335, 1)	23.2 (335, 1)	
100.0 /	23.8 (40, 1)	28.7 (55, 1)	28.5 (55, 1)	26.0 (55, 1)	23.5 (55, 1)	
90.0 /	26.0 (55, 1)	32.6 (55, 1)	32.6 (55, 1)	29.7 (55, 1)	27.4 (316, 1)	
80.0 /	37.9 (316, 1)	36.4 (316, 1)	31.9 (316, 1)	27.1 (316, 1)	23.1 (316, 1)	
70.0 /	41.6 (76, 1)	46.5 (89, 1)	40.4 (89, 1)	34.6 (89, 1)	30.2 (89, 1)	
60.0 /	43.8 (89, 1)	55.7 (88, 1)	50.7 (88, 1)	44.5 (88, 1)	39.2 (88, 1)	
50.0 /	26.3 (31, 1)	24.5 (89, 1)	26.5 (280, 1)	25.5 (280, 1)	23.6 (280, 1)	
40.0 /	34.6 (47, 1)	36.1 (47, 1)	32.4 (47, 1)	30.3 (32, 1)	26.7 (39, 1)	
30.0 /	21.9 (347, 1)	20.6 (342, 1)	17.5 (342, 1)	15.5 (88, 1)	14.3 (88, 1)	
20.0 /	15.2 (7, 1)	15.2 (39, 1)	16.6 (35, 1)	14.8 (47, 1)	14.7 (34, 1)	
10.0 /	28.3 (47, 1)	50.2 (83, 1)	36.8 (75, 1)	24.9 (47, 1)	21.7 (47, 1)	

*** OSCLOLA FIVE YEAR PARTICULATE D300

COMPOSITE SECOND-HIGHEST 24-HOUR CONCENTRATION TABLE, ug/cu.m, FOR SOURCE GROUP 2

* FOR THE RECEPTOR GRID *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	600.0	800.0	1000.0	1200.0	1400.0
360.0 /	52.4	59.0	53.5	48.4	43.2
350.0 /	48.7	49.8	45.3	39.8	35.5
340.0 /	57.6	66.8	65.5	60.3	55.6
330.0 /	59.1	58.0	55.3	49.9	44.8
320.0 /	69.5	74.4	69.8	62.7	56.3
310.0 /	78.9	85.9	80.0	70.5	61.7
300.0 /	66.7	76.4	80.0	78.0	75.8
290.0 /	62.9	87.7	95.4	91.6	85.8
280.0 /	52.8	60.0	57.9	53.8	49.0
270.0 /	79.9	95.7	95.0	81.8	72.2
260.0 /	93.0	105.5	100.0	87.3	75.6
250.0 /	101.7	103.0	95.9	87.6	80.6
240.0 /	94.1	<u>108.7</u>	97.6	81.8	68.9
230.0 /	87.0	98.4	91.7	80.0	69.2
220.0 /	89.4	94.8	85.3	73.2	62.8
210.0 /	61.4	62.4	56.6	50.0	43.3
200.0 /	43.7	51.9	50.3	44.9	39.5
190.0 /	31.4	32.9	30.2	27.1	24.0
180.0 /	43.3	42.1	37.7	34.2	29.1
170.0 /	44.1	46.3	46.7	42.9	36.8
160.0 /	41.3	47.5	45.4	45.8	45.2
150.0 /	33.9	40.9	43.4	46.8	47.1
140.0 /	58.9	73.0	64.0	54.8	49.9
130.0 /	53.6	65.5	66.3	61.4	55.0
120.0 /	44.4	56.8	55.4	50.7	46.3
110.0 /	48.2	56.8	54.4	48.3	42.4
100.0 /	44.7	47.2	43.7	42.0	39.8
90.0 /	33.5	41.3	41.0	36.9	32.8
80.0 /	37.9	36.4	31.9	28.4	25.2
70.0 /	41.6	46.5	40.4	34.6	30.2
60.0 /	45.8	55.7	50.7	44.5	39.2
50.0 /	58.5	40.2	39.5	35.5	31.5
40.0 /	36.1	36.1	32.4	30.3	26.7
30.0 /	31.4	30.4	29.0	25.6	25.8
20.0 /	28.2	32.4	32.0	29.3	26.8
10.0 /	37.1	37.4	32.3	30.4	28.6

1 IN²-DAY
183 DAYS
SGROUP# 3
YEAR 1970
*** OSCEOLA FIVE YEAR PARTICULATE D300 ***

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 6,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 1.7 AND OCCURRED AT (1000.0, 250.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	RANGE (METERS) 1400.0
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360.0 /	0.2	0.3	0.3	0.3	0.3
350.0 /	0.3	0.3	0.4	0.3	0.3
340.0 /	0.5	0.6	0.6	0.6	0.6
330.0 /	0.4	0.5	0.5	0.5	0.5
320.0 /	0.5	0.7	0.7	0.7	0.7
310.0 /	0.6	0.8	0.8	0.8	0.7
300.0 /	0.5	0.7	0.7	0.6	0.6
290.0 /	0.5	0.7	0.7	0.7	0.6
280.0 /	0.5	0.7	0.7	0.6	0.6
270.0 /	0.6	0.8	0.9	0.9	0.9
260.0 /	0.9	1.3	1.4	1.3	1.2
250.0 /	1.0	1.5	1.7	1.6	1.5
240.0 /	0.9	1.1	1.1	1.0	0.9
230.0 /	0.6	0.8	0.9	0.8	0.7
220.0 /	0.5	0.6	0.6	0.6	0.5
210.0 /	0.3	0.4	0.4	0.3	0.3
200.0 /	0.2	0.2	0.3	0.2	0.2
190.0 /	0.1	0.2	0.3	0.3	0.2
180.0 /	0.2	0.3	0.4	0.4	0.4
170.0 /	0.3	0.5	0.5	0.5	0.5
160.0 /	0.3	0.6	0.7	0.7	0.6
150.0 /	0.4	0.6	0.8	0.8	0.7
140.0 /	0.5	0.8	1.0	1.0	1.0
130.0 /	0.5	0.8	0.9	0.9	0.9
120.0 /	0.5	0.7	0.8	0.8	0.7
110.0 /	0.3	0.5	0.6	0.6	0.6
100.0 /	0.2	0.3	0.3	0.3	0.3
90.0 /	0.2	0.2	0.3	0.3	0.3
80.0 /	0.2	0.2	0.2	0.2	0.2
70.0 /	0.3	0.3	0.3	0.3	0.3
60.0 /	0.5	0.4	0.4	0.4	0.4
50.0 /	0.2	0.3	0.3	0.3	0.3
40.0 /	0.2	0.2	0.2	0.2	0.2
30.0 /	0.1	0.1	0.1	0.1	0.1
20.0 /	0.1	0.2	0.2	0.2	0.2
10.0 /	0.1	0.2	0.2	0.2	0.2

183-DAY

183 DAYS

SGROUPN 3

YEAR 1971

*** OSCEOLA FIVE YEAR PARTICULATE D300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 1.8 AND OCCURRED AT (1000.0, 250.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	RANGE (METERS) 1400.0
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360.0 /	0.2	0.2	0.3	0.3	0.3
350.0 /	0.3	0.4	0.5	0.5	0.4
340.0 /	0.5	0.6	0.7	0.6	0.6
330.0 /	0.6	0.8	0.8	0.8	0.7
320.0 /	0.7	1.0	1.0	1.0	0.9
310.0 /	0.7	1.0	1.0	1.0	0.9
300.0 /	0.7	0.8	0.8	0.8	0.7
290.0 /	0.6	0.8	0.8	0.8	0.7
280.0 /	0.7	0.9	1.0	0.9	0.9
270.0 /	0.8	1.2	1.3	1.2	1.2
260.0 /	1.1	1.5	1.6	1.5	1.4
250.0 /	1.3	1.7	1.8	1.6	1.5
240.0 /	1.0	1.4	1.4	1.3	1.1
230.0 /	0.6	0.7	0.7	0.6	0.6
220.0 /	0.3	0.4	0.4	0.4	0.4
210.0 /	0.2	0.3	0.3	0.3	0.3
200.0 /	0.1	0.2	0.2	0.2	0.2
190.0 /	0.2	0.2	0.3	0.2	0.2
180.0 /	0.2	0.3	0.3	0.3	0.3
170.0 /	0.2	0.3	0.4	0.4	0.3
160.0 /	0.2	0.3	0.3	0.3	0.3
150.0 /	0.2	0.3	0.4	0.4	0.4
140.0 /	0.3	0.6	0.7	0.7	0.7
130.0 /	0.3	0.5	0.7	0.7	0.7
120.0 /	0.2	0.4	0.4	0.5	0.4
110.0 /	0.2	0.3	0.3	0.3	0.3
100.0 /	0.1	0.2	0.2	0.2	0.2
90.0 /	0.2	0.2	0.2	0.2	0.2
80.0 /	0.2	0.3	0.3	0.2	0.2
70.0 /	0.2	0.3	0.3	0.2	0.2
60.0 /	0.2	0.2	0.2	0.2	0.2
50.0 /	0.2	0.2	0.2	0.2	0.2
40.0 /	0.2	0.2	0.2	0.2	0.2
30.0 /	0.2	0.2	0.2	0.2	0.2
20.0 /	0.1	0.2	0.2	0.2	0.2
10.0 /	0.1	0.2	0.2	0.2	0.2

INT-DAY
184 DAYS
SGROUP#- 5
YEAR 1972
*** DSCEOLA FIVE YEAR PARTICULATE D300

* 184-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

- * FROM SOURCES: 6,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 1.5 AND OCCURRED AT (1000.0, 260.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	RANGE (METERS) 1400.0
360.0 /	0.3	0.5	0.5	0.5	0.5
350.0 /	0.3	0.4	0.5	0.5	0.4
340.0 /	0.5	0.6	0.6	0.6	0.5
330.0 /	0.6	0.7	0.8	0.7	0.7
320.0 /	0.6	0.8	0.8	0.7	0.7
310.0 /	0.7	0.8	0.9	0.8	0.8
300.0 /	0.8	1.0	1.0	0.9	0.8
290.0 /	0.8	1.0	1.1	1.1	1.0
280.0 /	0.8	1.0	1.1	1.1	1.0
270.0 /	0.8	1.2	1.4	1.4	1.3
260.0 /	1.0	1.4	1.5	1.5	1.4
250.0 /	0.9	1.3	1.3	1.3	1.2
240.0 /	0.7	1.0	1.1	1.0	1.0
230.0 /	0.7	1.0	1.0	1.0	0.9
220.0 /	0.5	0.7	0.7	0.6	0.6
210.0 /	0.2	0.3	0.4	0.3	0.3
200.0 /	0.1	0.2	0.3	0.2	0.2
190.0 /	0.1	0.2	0.2	0.2	0.2
180.0 /	0.2	0.3	0.3	0.3	0.3
170.0 /	0.2	0.4	0.4	0.4	0.4
160.0 /	0.2	0.4	0.5	0.5	0.5
150.0 /	0.3	0.4	0.5	0.5	0.4
140.0 /	0.3	0.5	0.6	0.7	0.6
130.0 /	0.3	0.5	0.5	0.6	0.5
120.0 /	0.3	0.4	0.5	0.5	0.5
110.0 /	0.2	0.3	0.4	0.4	0.4
100.0 /	0.2	0.3	0.3	0.3	0.3
90.0 /	0.2	0.2	0.2	0.2	0.2
80.0 /	0.1	0.2	0.2	0.2	0.2
70.0 /	0.2	0.2	0.3	0.3	0.3
60.0 /	0.3	0.3	0.3	0.3	0.3
50.0 /	0.3	0.4	0.4	0.4	0.4
40.0 /	0.3	0.3	0.4	0.4	0.4
30.0 /	0.2	0.3	0.3	0.3	0.3
20.0 /	0.2	0.3	0.3	0.3	0.3
10.0 /	0.2	0.3	0.3	0.3	0.3

INT-DAY
183 DAYS
SGROUP# 3
YEAR 1973
*** OSCEOLA FIVE YEAR PARTICULATE D300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 6,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE ENDS 1.6 AND OCCURRED AT (1000.0, 250.0) *

DIRECTION / (DEGREES) /	600.0	800.0	1000.0	1200.0	RANGE (METERS) 1400.0
360.0 /	0.2	0.3	0.3	0.3	0.2
350.0 /	0.3	0.4	0.4	0.4	0.4
340.0 /	0.4	0.5	0.5	0.5	0.5
330.0 /	0.6	0.7	0.8	0.7	0.7
320.0 /	0.9	1.2	1.2	1.2	1.1
310.0 /	1.0	1.2	1.2	1.1	1.1
300.0 /	1.0	1.2	1.3	1.2	1.1
290.0 /	0.9	1.1	1.1	1.0	0.9
280.0 /	0.8	0.9	0.9	0.9	0.8
270.0 /	0.8	1.1	1.2	1.2	1.1
260.0 /	0.9	1.3	1.4	1.4	1.3
250.0 /	1.0	1.4	1.6	1.5	1.4
240.0 /	0.9	1.5	1.3	1.2	1.1
230.0 /	0.6	0.8	0.8	0.7	0.7
220.0 /	0.4	0.6	0.7	0.6	0.6
210.0 /	0.4	0.5	0.5	0.5	0.4
200.0 /	0.2	0.3	0.3	0.3	0.2
190.0 /	0.1	0.2	0.2	0.2	0.2
180.0 /	0.2	0.3	0.4	0.4	0.3
170.0 /	0.2	0.3	0.4	0.4	0.4
160.0 /	0.2	0.4	0.5	0.5	0.5
150.0 /	0.3	0.5	0.6	0.6	0.6
140.0 /	0.4	0.6	0.7	0.7	0.7
130.0 /	0.3	0.6	0.7	0.7	0.7
120.0 /	0.3	0.6	0.7	0.7	0.7
110.0 /	0.2	0.3	0.4	0.4	0.4
100.0 /	0.2	0.3	0.3	0.3	0.3
90.0 /	0.1	0.2	0.2	0.2	0.2
80.0 /	0.1	0.2	0.2	0.2	0.2
70.0 /	0.2	0.2	0.2	0.2	0.2
60.0 /	0.1	0.1	0.2	0.1	0.1
50.0 /	0.1	0.2	0.2	0.2	0.2
40.0 /	0.1	0.1	0.1	0.1	0.1
30.0 /	0.1	0.1	0.1	0.1	0.1
20.0 /	0.2	0.2	0.2	0.2	0.2
10.0 /	0.2	0.2	0.2	0.2	0.2

1NT-DAY
183 DAYS
SGROUP# 3
YEAR 1974
*** OSCEOLA FIVE YEAR PARTICULATE D300

* 183-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 6,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 1.6 AND OCCURRED AT (1000.0, 260.0) *

DIRECTION / RANGE (METERS)
(DEGREES) / 600.0 800.0 1000.0 1200.0 1400.0

360.0 /	0.2	0.3	0.3	0.3	0.3
350.0 /	0.2	0.3	0.3	0.3	0.3
340.0 /	0.4	0.4	0.4	0.4	0.4
330.0 /	0.5	0.6	0.6	0.6	0.5
320.0 /	0.6	0.8	0.8	0.8	0.7
310.0 /	0.7	0.8	0.8	0.8	0.7
300.0 /	0.7	0.9	0.9	0.8	0.8
290.0 /	0.7	0.9	0.9	0.9	0.9
280.0 /	0.8	1.0	1.1	1.0	0.9
270.0 /	0.9	1.3	1.5	1.5	1.4
260.0 /	1.1	1.5	1.6	1.5	1.4
250.0 /	1.0	1.5	1.6	1.5	1.4
240.0 /	1.0	1.4	1.5	1.4	1.3
230.0 /	0.9	1.2	1.3	1.2	1.1
220.0 /	0.6	0.9	0.9	0.8	0.7
210.0 /	0.4	0.5	0.5	0.5	0.4
200.0 /	0.3	0.4	0.5	0.4	0.4
190.0 /	0.2	0.3	0.3	0.3	0.3
180.0 /	0.3	0.4	0.4	0.4	0.4
170.0 /	0.2	0.3	0.3	0.3	0.3
160.0 /	0.2	0.3	0.4	0.4	0.4
150.0 /	0.2	0.4	0.4	0.4	0.4
140.0 /	0.3	0.5	0.7	0.7	0.7
130.0 /	0.2	0.4	0.5	0.6	0.6
120.0 /	0.2	0.2	0.3	0.3	0.3
110.0 /	0.2	0.2	0.3	0.3	0.3
100.0 /	0.2	0.2	0.2	0.2	0.2
90.0 /	0.2	0.2	0.2	0.2	0.2
80.0 /	0.2	0.2	0.2	0.2	0.2
70.0 /	0.2	0.3	0.3	0.2	0.2
60.0 /	0.2	0.3	0.3	0.3	0.3
50.0 /	0.2	0.2	0.2	0.2	0.2
40.0 /	0.2	0.2	0.2	0.2	0.2
30.0 /	0.1	0.2	0.2	0.2	0.1
20.0 /	0.1	0.1	0.1	0.1	0.1
10.0 /	0.2	0.2	0.2	0.2	0.2

2ND HIGH

24-HR

SGROUP# 3

YEAR 1970

*** OSCEOLA FIVE YEAR PARTICULATE D500

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* FROM SOURCES: 61

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 16.1 AND OCCURRED AT (1000.0, 250.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000	1200.0	1400.0
360.0 /	3.9 (87, 1)	4.1 (64, 1)	4.3 (64, 1)	4.3 (71, 1)	4.1 (34, 1)	
350.0 /	6.2 (87, 1)	6.9 (87, 1)	6.7 (87, 1)	6.2 (87, 1)	5.7 (87, 1)	
340.0 /	7.0 (64, 1)	9.4 (47, 1)	10.0 (47, 1)	9.6 (47, 1)	9.1 (47, 1)	
330.0 /	5.0 (356, 1)	7.6 (77, 1)	7.4 (33, 1)	6.5 (294, 1)	6.3 (294, 1)	
320.0 /	5.9 (79, 1)	9.1 (90, 1)	9.0 (90, 1)	8.3 (90, 1)	7.5 (90, 1)	
310.0 /	8.0 (63, 1)	9.5 (63, 1)	10.0 (293, 1)	9.7 (293, 1)	9.2 (29, 1)	
300.0 /	5.9 (78, 1)	5.9 (355, 1)	6.7 (355, 1)	6.6 (355, 1)	6.3 (355, 1)	
290.0 /	4.6 (46, 1)	6.7 (62, 1)	7.4 (293, 1)	6.3 (293, 1)	5.7 (303, 1)	
280.0 /	5.0 (303, 1)	6.3 (303, 1)	5.9 (303, 1)	4.9 (66, 1)	4.3 (66, 1)	
270.0 /	7.2 (61, 1)	9.6 (61, 1)	9.6 (61, 1)	9.0 (59, 1)	8.7 (59, 1)	
260.0 /	7.4 (60, 1)	10.2 (345, 1)	10.8 (345, 1)	10.4 (292, 1)	10.0 (280, 1)	
250.0 /	10.6 (291, 1)	13.2 (342, 1)	16.1 (342, 1)	14.1 (280, 1)	13.0 (131, 1)	
240.0 /	10.0 (280, 1)	10.9 (280, 1)	10.6 (285, 1)	10.0 (342, 1)	9.1 (285, 1)	
230.0 /	5.2 (283, 1)	7.7 (285, 1)	8.7 (278, 1)	8.8 (278, 1)	8.5 (278, 1)	
220.0 /	5.9 (274, 1)	7.0 (278, 1)	7.2 (290, 1)	6.7 (277, 1)	6.2 (277, 1)	
210.0 /	3.7 (58, 1)	5.0 (58, 1)	4.8 (58, 1)	4.1 (58, 1)	3.4 (58, 1)	
200.0 /	2.8 (58, 1)	3.7 (322, 1)	4.1 (322, 1)	3.9 (322, 1)	3.5 (304, 1)	
190.0 /	1.9 (58, 1)	3.2 (75, 1)	3.3 (75, 1)	3.5 (2, 1)	3.3 (39, 1)	
180.0 /	2.4 (75, 1)	3.9 (300, 1)	5.1 (300, 1)	5.2 (300, 1)	5.0 (300, 1)	
170.0 /	3.3 (305, 1)	4.7 (52, 1)	5.6 (52, 1)	5.4 (52, 1)	5.1 (24, 1)	
160.0 /	2.9 (22, 1)	4.1 (57, 1)	5.4 (57, 1)	5.7 (57, 1)	5.6 (57, 1)	
150.0 /	3.3 (361, 1)	5.4 (35, 1)	6.4 (35, 1)	6.2 (35, 1)	5.6 (35, 1)	
140.0 /	4.5 (340, 1)	6.7 (7, 1)	8.3 (320, 1)	8.5 (328, 1)	7.5 (309, 1)	
130.0 /	4.7 (299, 1)	5.6 (7, 1)	7.7 (8, 1)	8.1 (7, 1)	8.0 (7, 1)	
120.0 /	5.9 (20, 1)	7.5 (20, 1)	7.5 (319, 1)	7.6 (319, 1)	7.1 (319, 1)	
110.0 /	4.4 (72, 1)	7.0 (72, 1)	8.1 (72, 1)	7.7 (41, 1)	7.2 (41, 1)	
100.0 /	2.1 (1, 1)	3.8 (68, 1)	4.6 (68, 1)	4.6 (68, 1)	4.4 (68, 1)	
90.0 /	3.5 (49, 1)	3.3 (298, 1)	4.2 (19, 1)	4.4 (48, 1)	3.8 (48, 1)	
80.0 /	4.1 (1, 1)	4.7 (1, 1)	4.5 (68, 1)	4.3 (68, 1)	4.0 (68, 1)	
70.0 /	4.5 (359, 1)	4.7 (40, 1)	4.1 (81, 1)	3.6 (81, 1)	3.1 (81, 1)	
60.0 /	5.0 (297, 1)	4.5 (297, 1)	5.0 (327, 1)	4.5 (327, 1)	4.1 (327, 1)	
50.0 /	3.5 (26, 1)	5.0 (56, 1)	4.6 (26, 1)	4.4 (40, 1)	4.2 (40, 1)	
40.0 /	3.4 (1, 1)	3.6 (81, 1)	3.5 (61, 1)	3.2 (81, 1)	2.9 (81, 1)	
30.0 /	2.2 (50, 1)	2.6 (359, 1)	2.2 (50, 1)	1.9 (50, 1)	1.9 (23, 1)	
20.0 /	2.7 (56, 1)	3.5 (56, 1)	3.7 (56, 1)	3.5 (56, 1)	3.2 (56, 1)	
10.0 /	2.4 (81, 1)	2.6 (318, 1)	2.7 (318, 1)	2.5 (318, 1)	2.5 (34, 1)	

2ND HIGH

24-HR

SGROUP# 2

YEAR 1971

*** OSCEOLA FIVE YEAR PARTICULATE D300

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 17.7 AND OCCURRED AT (800.0, 250.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	2.7 (307, 1)	3.0 (307, 1)	3.3 (307, 1)	3.3 (307, 1)	3.2 (307, 1)	
350.0 /	4.0 (38, 1)	5.5 (38, 1)	5.8 (38, 1)	5.6 (38, 1)	5.3 (38, 1)	
340.0 /	7.2 (38, 1)	9.2 (38, 1)	9.3 (38, 1)	8.5 (38, 1)	7.7 (38, 1)	
330.0 /	6.0 (53, 1)	7.3 (56, 1)	7.7 (56, 1)	7.4 (56, 1)	6.9 (56, 1)	
320.0 /	6.6 (36, 1)	9.1 (51, 1)	9.9 (51, 1)	9.5 (51, 1)	8.8 (51, 1)	
310.0 /	6.3 (36, 1)	8.8 (52, 1)	9.9 (52, 1)	9.7 (52, 1)	9.2 (52, 1)	
300.0 /	5.2 (4, 1)	6.3 (340, 1)	6.4 (4, 1)	6.3 (340, 1)	6.1 (340, 1)	
290.0 /	4.4 (35, 1)	6.3 (348, 1)	7.1 (348, 1)	6.9 (348, 1)	6.5 (348, 1)	
280.0 /	5.7 (34, 1)	6.8 (34, 1)	7.5 (323, 1)	6.8 (35, 1)	6.2 (362, 1)	
270.0 /	5.6 (289, 1)	7.5 (91, 1)	10.0 (91, 1)	10.7 (91, 1)	10.6 (91, 1)	
260.0 /	8.1 (327, 1)	11.7 (3, 1)	11.8 (3, 1)	11.0 (319, 1)	10.1 (319, 1)	
250.0 /	13.6 (319, 1)	17.7 (319, 1)	16.8 (319, 1)	15.8 (40, 1)	13.5 (320, 1)	
240.0 /	10.3 (33, 1)	14.2 (309, 1)	15.6 (321, 1)	13.3 (321, 1)	11.1 (321, 1)	
230.0 /	6.5 (305, 1)	7.1 (359, 1)	7.5 (359, 1)	6.9 (359, 1)	6.0 (33, 1)	
220.0 /	5.0 (357, 1)	5.0 (317, 1)	4.7 (326, 1)	5.2 (326, 1)	4.7 (312, 1)	
210.0 /	2.2 (13, 1)	3.5 (29, 1)	4.2 (68, 1)	4.1 (90, 1)	3.7 (90, 1)	
200.0 /	2.8 (80, 1)	3.7 (352, 1)	4.0 (352, 1)	3.8 (352, 1)	3.4 (352, 1)	
190.0 /	2.9 (76, 1)	4.1 (76, 1)	4.5 (76, 1)	4.3 (76, 1)	3.9 (7, 1)	
180.0 /	3.4 (352, 1)	5.5 (352, 1)	5.9 (352, 1)	5.5 (352, 1)	4.9 (352, 1)	
170.0 /	4.2 (300, 1)	5.7 (329, 1)	6.3 (329, 1)	5.9 (329, 1)	5.3 (329, 1)	
160.0 /	2.7 (317, 1)	4.2 (300, 1)	4.8 (314, 1)	4.8 (314, 1)	4.5 (314, 1)	
150.0 /	3.0 (292, 1)	3.6 (16, 1)	4.3 (20, 1)	4.3 (20, 1)	4.0 (20, 1)	
140.0 /	4.0 (89, 1)	6.3 (89, 1)	7.9 (20, 1)	7.9 (20, 1)	7.3 (20, 1)	
130.0 /	4.5 (63, 1)	8.3 (63, 1)	9.3 (19, 1)	9.2 (20, 1)	8.9 (63, 1)	
120.0 /	3.4 (17, 1)	5.6 (63, 1)	6.5 (63, 1)	6.3 (63, 1)	5.9 (66, 1)	
110.0 /	3.4 (79, 1)	3.7 (295, 1)	4.4 (39, 1)	4.6 (79, 1)	4.4 (79, 1)	
100.0 /	2.8 (298, 1)	3.3 (298, 1)	3.4 (298, 1)	3.2 (298, 1)	3.0 (298, 1)	
90.0 /	3.7 (17, 1)	5.4 (15, 1)	6.1 (15, 1)	5.9 (15, 1)	5.5 (15, 1)	
80.0 /	5.6 (25, 1)	5.3 (15, 1)	4.6 (82, 1)	3.8 (82, 1)	3.6 (31, 1)	
70.0 /	5.2 (64, 1)	4.9 (82, 1)	4.5 (82, 1)	3.9 (82, 1)	3.4 (82, 1)	
60.0 /	4.9 (75, 1)	4.7 (324, 1)	3.9 (324, 1)	3.6 (39, 1)	3.4 (75, 1)	
50.0 /	2.6 (62, 1)	3.0 (324, 1)	3.6 (44, 1)	3.7 (44, 1)	3.6 (44, 1)	
40.0 /	4.1 (283, 1)	5.1 (283, 1)	4.9 (283, 1)	4.6 (283, 1)	4.1 (283, 1)	
30.0 /	2.6 (62, 1)	3.3 (62, 1)	3.3 (81, 1)	3.0 (62, 1)	2.7 (62, 1)	
20.0 /	2.8 (66, 1)	4.0 (66, 1)	4.9 (283, 1)	4.4 (283, 1)	4.0 (66, 1)	
10.0 /	3.5 (283, 1)	5.1 (283, 1)	5.4 (39, 1)	4.7 (39, 1)	4.1 (39, 1)	

2ND HIGH

24-HR

SGROUP# 3

YEAR 1972

*** OSCEOLA FIVE YEAR PARTICULATE D300

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 14.9 AND OCCURRED AT (1000.0, 240.0) *

DIRECTION / (DEGREES) /	RANGE (METERS)				
	600.0	800.0	1000.0	1200.0	1400.0
360.0 /	5.5 (330, 1)	7.6 (357, 1)	8.4 (356, 1)	7.6 (356, 1)	6.8 (356, 1)
350.0 /	4.6 (330, 1)	6.1 (330, 1)	6.4 (330, 1)	6.1 (330, 1)	5.7 (330, 1)
340.0 /	5.5 (13, 1)	6.6 (13, 1)	6.6 (13, 1)	6.2 (13, 1)	5.5 (356, 1)
330.0 /	6.8 (62, 1)	8.4 (11, 1)	8.6 (11, 1)	8.0 (11, 1)	7.3 (11, 1)
320.0 /	6.1 (55, 1)	7.8 (366, 1)	8.5 (366, 1)	8.2 (366, 1)	7.6 (366, 1)
310.0 /	6.9 (366, 1)	8.1 (301, 1)	7.7 (301, 1)	7.3 (349, 1)	7.1 (349, 1)
300.0 /	7.0 (333, 1)	7.9 (349, 1)	9.3 (365, 1)	9.2 (365, 1)	8.8 (365, 1)
290.0 /	7.0 (58, 1)	8.6 (308, 1)	9.1 (308, 1)	8.9 (307, 1)	9.5 (307, 1)
280.0 /	5.9 (60, 1)	7.3 (348, 1)	8.4 (348, 1)	7.6 (311, 1)	7.8 (348, 1)
270.0 /	7.9 (297, 1)	9.6 (297, 1)	10.4 (343, 1)	10.0 (297, 1)	9.6 (297, 1)
260.0 /	8.8 (345, 1)	12.6 (345, 1)	13.5 (345, 1)	12.6 (345, 1)	11.4 (345, 1)
250.0 /	7.8 (8, 1)	11.2 (8, 1)	11.4 (8, 1)	10.2 (8, 1)	9.0 (8, 1)
240.0 /	9.2 (306, 1)	14.1 (306, 1)	14.9 (306, 1)	13.5 (306, 1)	11.9 (306, 1)
230.0 /	9.4 (294, 1)	10.9 (294, 1)	12.8 (71, 1)	11.2 (285, 1)	10.2 (287, 1)
220.0 /	9.8 (286, 1)	12.2 (286, 1)	11.6 (286, 1)	10.1 (286, 1)	8.7 (286, 1)
210.0 /	3.5 (71, 1)	5.3 (70, 1)	6.3 (70, 1)	6.2 (70, 1)	5.3 (286, 1)
200.0 /	2.6 (69, 1)	4.7 (69, 1)	5.3 (69, 1)	5.1 (69, 1)	4.6 (69, 1)
190.0 /	3.1 (59, 1)	4.3 (59, 1)	4.4 (59, 1)	4.3 (66, 1)	4.0 (279, 1)
180.0 /	3.1 (86, 1)	4.4 (7, 1)	4.7 (16, 1)	4.2 (16, 1)	3.6 (16, 1)
170.0 /	4.5 (326, 1)	6.0 (326, 1)	7.2 (351, 1)	6.6 (351, 1)	6.1 (66, 1)
160.0 /	3.1 (15, 1)	6.5 (16, 1)	7.4 (16, 1)	7.0 (16, 1)	6.3 (16, 1)
150.0 /	4.5 (327, 1)	5.4 (200, 1)	4.8 (16, 1)	4.6 (16, 1)	4.1 (16, 1)
140.0 /	4.8 (322, 1)	8.4 (328, 1)	10.8 (328, 1)	9.7 (280, 1)	8.2 (280, 1)
130.0 /	4.0 (51, 1)	6.0 (327, 1)	7.8 (51, 1)	7.6 (51, 1)	7.2 (51, 1)
120.0 /	2.9 (281, 1)	4.7 (50, 1)	5.3 (327, 1)	5.8 (77, 1)	5.0 (331, 1)
110.0 /	4.8 (282, 1)	6.2 (282, 1)	5.9 (282, 1)	5.0 (282, 1)	4.8 (282, 1)
100.0 /	4.2 (44, 1)	6.0 (50, 1)	6.4 (50, 1)	6.2 (50, 1)	5.8 (50, 1)
90.0 /	3.4 (283, 1)	5.3 (283, 1)	3.5 (49, 1)	3.4 (358, 1)	3.1 (358, 1)
80.0 /	2.1 (283, 1)	2.5 (48, 1)	2.7 (48, 1)	2.7 (44, 1)	2.5 (282, 1)
70.0 /	3.1 (275, 1)	3.2 (77, 1)	3.2 (48, 1)	3.1 (48, 1)	2.9 (48, 1)
60.0 /	4.8 (6, 1)	4.9 (275, 1)	4.4 (78, 1)	4.1 (78, 1)	3.8 (78, 1)
50.0 /	4.5 (62, 1)	5.2 (6, 1)	4.9 (82, 1)	4.7 (33, 1)	4.5 (33, 1)
40.0 /	4.3 (5, 1)	4.4 (5, 1)	4.3 (302, 1)	4.0 (302, 1)	3.7 (302, 1)
30.0 /	4.6 (5, 1)	4.6 (85, 1)	4.3 (33, 1)	4.0 (5, 1)	3.5 (5, 1)
20.0 /	2.5 (91, 1)	3.3 (48, 1)	3.6 (48, 1)	3.6 (48, 1)	3.6 (48, 1)
10.0 /	3.0 (357, 1)	3.4 (274, 1)	3.2 (302, 1)	3.2 (302, 1)	3.2 (335, 1)

2ND HIGH

24-HR

SGROUPII 3

YEAR 1973

*** OSCEOLA FIVE YEAR PARTICULATE D300

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 15.4 AND OCCURRED AT (1000.0, 260.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	2.8 (304, 1)	2.8 (304, 1)	3.4 (76, 1)	3.6 (76, 1)	3.5 (76, 1)	
350.0 /	4.4 (40, 1)	6.0 (91, 1)	6.3 (91, 1)	6.0 (91, 1)	5.5 (91, 1)	
340.0 /	4.5 (22, 1)	5.4 (22, 1)	5.5 (33, 1)	5.2 (40, 1)	4.6 (40, 1)	
330.0 /	7.2 (361, 1)	8.7 (84, 1)	7.9 (22, 1)	7.2 (22, 1)	6.5 (22, 1)	
320.0 /	8.5 (33, 1)	9.9 (329, 1)	10.5 (329, 1)	10.0 (329, 1)	9.4 (329, 1)	
310.0 /	8.7 (21, 1)	11.9 (90, 1)	12.4 (90, 1)	11.5 (90, 1)	10.4 (90, 1)	
300.0 /	8.6 (360, 1)	11.3 (359, 1)	11.0 (70, 1)	11.9 (70, 1)	10.8 (74, 1)	
290.0 /	8.5 (88, 1)	12.0 (88, 1)	12.2 (88, 1)	10.7 (88, 1)	10.3 (65, 1)	
280.0 /	6.0 (87, 1)	9.8 (87, 1)	11.3 (87, 1)	9.7 (32, 1)	7.8 (32, 1)	
270.0 /	6.4 (72, 1)	9.1 (64, 1)	8.5 (324, 1)	9.0 (324, 1)	9.1 (324, 1)	
260.0 /	8.9 (286, 1)	14.0 (286, 1)	15.4 (286, 1)	14.6 (286, 1)	13.3 (286, 1)	
250.0 /	8.1 (317, 1)	13.1 (317, 1)	14.5 (317, 1)	13.7 (317, 1)	12.5 (317, 1)	
240.0 /	8.9 (284, 1)	12.0 (284, 1)	12.0 (316, 1)	11.3 (316, 1)	10.3 (316, 1)	
230.0 /	5.0 (294, 1)	7.9 (294, 1)	8.5 (294, 1)	7.9 (294, 1)	7.1 (294, 1)	
220.0 /	8.0 (295, 1)	12.8 (295, 1)	13.7 (295, 1)	12.7 (295, 1)	11.4 (295, 1)	
210.0 /	8.6 (296, 1)	11.5 (295, 1)	11.1 (295, 1)	9.6 (295, 1)	8.2 (295, 1)	
200.0 /	4.1 (295, 1)	6.0 (295, 1)	6.2 (295, 1)	5.7 (295, 1)	5.1 (295, 1)	
190.0 /	2.7 (299, 1)	3.4 (299, 1)	3.4 (299, 1)	3.1 (299, 1)	2.7 (299, 1)	
180.0 /	2.3 (332, 1)	3.8 (81, 1)	4.4 (297, 1)	4.3 (297, 1)	3.9 (297, 1)	
170.0 /	2.5 (297, 1)	3.9 (297, 1)	4.4 (297, 1)	4.2 (297, 1)	4.0 (50, 1)	
160.0 /	2.8 (15, 1)	3.8 (9, 1)	4.6 (48, 1)	4.8 (48, 1)	4.9 (50, 1)	
150.0 /	4.2 (53, 1)	4.9 (53, 1)	4.6 (53, 1)	5.2 (11, 1)	5.7 (297, 1)	
140.0 /	6.0 (14, 1)	7.4 (14, 1)	7.5 (47, 1)	7.0 (14, 1)	6.7 (47, 1)	
130.0 /	3.4 (53, 1)	6.6 (42, 1)	8.4 (343, 1)	8.4 (343, 1)	8.1 (343, 1)	
120.0 /	4.4 (86, 1)	7.5 (12, 1)	8.7 (12, 1)	8.5 (12, 1)	7.9 (12, 1)	
110.0 /	3.4 (86, 1)	4.1 (351, 1)	4.7 (355, 1)	4.8 (351, 1)	4.5 (351, 1)	
100.0 /	3.3 (86, 1)	4.9 (41, 1)	5.5 (41, 1)	5.2 (41, 1)	4.7 (41, 1)	
90.0 /	3.6 (85, 1)	4.4 (355, 1)	4.6 (85, 1)	4.0 (85, 1)	3.9 (302, 1)	
80.0 /	4.6 (19, 1)	4.5 (41, 1)	4.1 (19, 1)	3.5 (19, 1)	3.0 (19, 1)	
70.0 /	4.4 (85, 1)	4.3 (85, 1)	3.5 (85, 1)	2.8 (80, 1)	2.5 (80, 1)	
60.0 /	1.9 (8, 1)	2.5 (8, 1)	2.5 (8, 1)	2.4 (8, 1)	2.3 (8, 1)	
50.0 /	3.4 (68, 1)	4.2 (80, 1)	4.2 (80, 1)	3.9 (348, 1)	3.4 (348, 1)	
40.0 /	2.4 (358, 1)	3.5 (348, 1)	3.8 (348, 1)	3.7 (348, 1)	3.5 (348, 1)	
30.0 /	2.9 (304, 1)	3.1 (80, 1)	3.6 (80, 1)	3.5 (350, 1)	3.1 (350, 1)	
20.0 /	3.0 (305, 1)	3.8 (304, 1)	4.1 (80, 1)	4.2 (305, 1)	3.9 (305, 1)	
10.0 /	2.4 (27, 1)	3.2 (23, 1)	3.5 (85, 1)	3.2 (85, 1)	2.9 (85, 1)	

2ND HIGH

24-HR

SGROUP# 3

YEAR 1974

*** OSCEOLA FIVE YEAR PARTICULATE D500

* SECOND HIGHEST 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 6,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 15.6 AND OCCURRED AT (1000.0, 230.0) *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)	1000.0	1200.0	1400.0
360.0 /	4.2 (50, 1)	5.4 (53, 1)	5.7 (53, 1)	5.4 (53, 1)	5.0 (53, 1)	4.3 (50, 1)
350.0 /	4.3 (38, 1)	4.9 (30, 1)	4.9 (50, 1)	4.7 (50, 1)	4.3 (50, 1)	4.3 (38, 1)
340.0 /	6.6 (38, 1)	7.8 (38, 1)	7.7 (38, 1)	7.1 (38, 1)	6.5 (38, 1)	6.5 (38, 1)
330.0 /	4.7 (9, 1)	6.0 (9, 1)	6.2 (9, 1)	5.9 (9, 1)	5.5 (9, 1)	5.5 (9, 1)
320.0 /	5.8 (28, 1)	7.1 (28, 1)	7.6 (78, 1)	7.0 (78, 1)	6.4 (78, 1)	6.4 (78, 1)
310.0 /	5.9 (44, 1)	6.0 (11, 1)	5.9 (11, 1)	5.7 (1, 1)	5.5 (1, 1)	5.5 (1, 1)
300.0 /	7.1 (45, 1)	7.3 (329, 1)	7.5 (27, 1)	7.2 (27, 1)	6.8 (27, 1)	6.8 (27, 1)
290.0 /	6.2 (68, 1)	7.4 (288, 1)	8.1 (68, 1)	7.3 (68, 1)	6.5 (68, 1)	6.5 (68, 1)
280.0 /	7.1 (86, 1)	6.9 (23, 1)	7.4 (23, 1)	6.9 (23, 1)	6.2 (63, 1)	6.2 (63, 1)
270.0 /	5.6 (361, 1)	10.9 (361, 1)	13.3 (361, 1)	13.4 (361, 1)	12.2 (74, 1)	12.2 (74, 1)
260.0 /	8.7 (357, 1)	12.0 (321, 1)	13.0 (74, 1)	12.2 (320, 1)	11.3 (320, 1)	11.3 (320, 1)
250.0 /	6.7 (328, 1)	11.1 (287, 1)	12.0 (287, 1)	11.4 (287, 1)	10.4 (287, 1)	10.4 (287, 1)
240.0 /	6.9 (303, 1)	10.9 (285, 1)	13.3 (285, 1)	13.4 (285, 1)	12.7 (285, 1)	12.7 (285, 1)
230.0 /	10.3 (285, 1)	15.1 (285, 1)	15.6 (285, 1)	14.1 (285, 1)	12.6 (284, 1)	12.6 (284, 1)
220.0 /	11.2 (277, 1)	13.3 (277, 1)	12.4 (277, 1)	10.8 (283, 1)	10.4 (283, 1)	10.4 (283, 1)
210.0 /	7.2 (276, 1)	10.1 (277, 1)	9.5 (277, 1)	8.2 (277, 1)	7.1 (275, 1)	6.8 (283, 1)
200.0 /	3.7 (274, 1)	6.6 (274, 1)	7.3 (274, 1)	7.3 (283, 1)	6.8 (283, 1)	6.8 (283, 1)
190.0 /	4.1 (276, 1)	5.0 (276, 1)	4.6 (276, 1)	3.9 (276, 1)	3.5 (276, 1)	3.5 (276, 1)
180.0 /	4.5 (344, 1)	5.9 (344, 1)	6.0 (332, 1)	5.6 (332, 1)	5.0 (332, 1)	5.0 (332, 1)
170.0 /	3.0 (292, 1)	4.0 (311, 1)	4.6 (311, 1)	4.8 (313, 1)	4.7 (313, 1)	4.7 (313, 1)
160.0 /	2.7 (339, 1)	3.7 (339, 1)	4.7 (313, 1)	5.4 (313, 1)	5.1 (325, 1)	5.1 (325, 1)
150.0 /	3.2 (311, 1)	4.7 (41, 1)	5.7 (317, 1)	5.2 (317, 1)	4.5 (343, 1)	4.5 (343, 1)
140.0 /	4.3 (338, 1)	5.7 (56, 1)	8.0 (56, 1)	8.5 (56, 1)	8.4 (56, 1)	8.4 (56, 1)
130.0 /	4.4 (338, 1)	5.1 (76, 1)	6.0 (41, 1)	6.4 (40, 1)	6.3 (40, 1)	6.3 (40, 1)
120.0 /	3.4 (316, 1)	4.2 (316, 1)	4.4 (76, 1)	4.2 (76, 1)	3.8 (76, 1)	3.8 (76, 1)
110.0 /	3.2 (40, 1)	2.9 (363, 1)	3.8 (53, 1)	3.9 (53, 1)	3.8 (53, 1)	3.8 (53, 1)
100.0 /	3.1 (355, 1)	3.5 (335, 1)	3.1 (335, 1)	2.5 (335, 1)	2.5 (40, 1)	2.5 (40, 1)
90.0 /	4.1 (89, 1)	3.3 (88, 1)	3.1 (88, 1)	3.1 (55, 1)	3.1 (55, 1)	3.1 (55, 1)
80.0 /	3.5 (71, 1)	3.4 (335, 1)	4.0 (335, 1)	4.0 (335, 1)	3.9 (335, 1)	3.9 (335, 1)
70.0 /	9.1 (75, 1)	6.2 (89, 1)	5.6 (280, 1)	5.5 (280, 1)	5.2 (280, 1)	5.2 (280, 1)
60.0 /	5.8 (39, 1)	6.0 (89, 1)	6.4 (280, 1)	7.3 (280, 1)	7.6 (280, 1)	7.6 (280, 1)
50.0 /	3.5 (79, 1)	3.5 (79, 1)	3.1 (89, 1)	3.2 (89, 1)	3.1 (89, 1)	3.1 (89, 1)
40.0 /	2.9 (39, 1)	3.8 (39, 1)	4.1 (39, 1)	4.0 (39, 1)	3.8 (39, 1)	3.8 (39, 1)
30.0 /	3.2 (342, 1)	3.4 (342, 1)	3.0 (342, 1)	2.6 (342, 1)	2.2 (342, 1)	2.2 (342, 1)
20.0 /	2.6 (47, 1)	2.2 (53, 1)	2.0 (53, 1)	2.1 (39, 1)	2.1 (39, 1)	2.1 (39, 1)
10.0 /	3.5 (47, 1)	4.0 (47, 1)	4.1 (47, 1)	3.6 (83, 1)	3.2 (75, 1)	3.2 (75, 1)

*** OSCEOLA FIVE YEAR PARTICULATE D300

COMPOSITE SECOND-HIGHEST 24-HOUR CONCENTRATION TABLE, ug/cu.m, FOR SOURCE GROUP 3

* FOR THE RECEPTOR GRID *

DIRECTION / (DEGREES) /	600.0	800.0	RANGE (METERS)			
			1000.0	1200.0	1400.0	
360.0 /	5.5	7.6	8.4	7.6	6.8	
350.0 /	6.2	6.9	6.7	6.2	5.7	
340.0 /	7.2	9.4	10.0	9.6	9.1	
330.0 /	7.2	8.7	8.6	8.0	7.3	
320.0 /	8.5	9.9	10.5	10.0	9.4	
310.0 /	10.7	11.9	12.4	11.5	10.4	
300.0 /	8.6	11.3	11.8	11.9	10.8	
290.0 /	8.5	12.0	12.2	10.7	10.3	
280.0 /	7.1	9.8	11.3	9.7	7.8	
270.0 /	7.9	10.9	13.3	13.4	12.2	
260.0 /	8.9	14.0	15.4	14.6	13.3	
250.0 /	13.6	17.7	16.8	15.8	13.5	
240.0 /	10.3	14.2	15.6	13.5	12.7	
230.0 /	10.3	15.1	15.6	14.1	12.6	
220.0 /	11.2	13.3	13.7	12.7	11.4	
210.0 /	8.6	11.5	11.1	9.6	8.2	
200.0 /	4.1	6.6	7.3	7.3	6.8	
190.0 /	4.1	5.0	4.6	4.3	4.0	
180.0 /	4.5	5.9	6.0	5.6	5.0	
170.0 /	4.6	6.8	7.2	6.6	6.1	
160.0 /	5.1	6.5	7.4	7.0	6.3	
150.0 /	4.5	5.4	6.4	6.2	5.7	
140.0 /	6.0	8.4	10.0	9.7	8.4	
130.0 /	4.7	8.3	9.3	9.2	8.9	
120.0 /	5.9	7.5	8.7	8.5	7.9	
110.0 /	4.8	7.0	8.1	7.7	7.2	
100.0 /	4.2	6.0	6.4	6.2	5.8	
90.0 /	4.1	5.4	6.1	5.9	5.5	
80.0 /	5.6	5.3	4.6	4.3	4.0	
70.0 /	5.2	6.2	5.6	5.5	5.2	
60.0 /	5.8	6.0	6.4	7.3	7.6	
50.0 /	4.5	5.2	4.9	4.7	4.5	
40.0 /	4.3	5.1	4.9	4.5	4.1	
30.0 /	4.6	4.6	4.3	4.0	3.5	
20.0 /	3.0	4.0	4.9	4.4	4.0	
10.0 /	3.9	5.1	5.4	4.7	4.1	

*** OSCEOLA FIVE YEAR PARTICULATE D301

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 0
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION FOR TOTAL DEPOSITION WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 0
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YLS=1,NO=0)	ISW(13) = 0
24-HOUR (YLS=1,NO=0)	ISW(14) = 1
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 1
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 0
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RURAL=0,URBAN MODE 1=1,URBAN MODE 2=2)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YLS=2,NO=1)	ISW(25) = 1
NUMBER OF INPUT SOURCES	NSOURC = 51
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 2
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERO = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 10
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 10
NUMBER OF DISCRETE RECEPORS	NXWYPT = 0
SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK = 10000E+07
ENTRAINMENT COEFFICIENT FOR UNSTABLE ATMOSPHERE	BETA1 = 0.600
ENTRAINMENT COEFFICIENT FOR STABLE ATMOSPHERE	BETA2 = 0.600
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZK = 7.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION DECAY	= 0.000000E+00
SURFACE STATION NO.	ISS = 12844
YEAR OF SURFACE DATA	ISY = 70
UPPER AIR STATION NO.	IUS = 12039
YEAR OF UPPER AIR DATA	IUY = 70
ALLOCATED DATA STORAGE	LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 11385 WORDS

*** OSCOLA FIVE YEAR PARTICULATE D301

2

* * * METEOROLOGICAL DAYS TO BE PROCESSED * * *

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

4, 2,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IUSOR)

$$1, -5, 11, -159, 2, -159$$

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 5.09, 5.14, 8.23, 10.80

*** WIND PROFILE EXPONENTS ***

*** OSCEOLA FIVE YEAR PARTICULATE D301

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY					
	1	2	3	4	5	6
A	,00000E+00	,00000E+00	,00000E+00	,00000E+00	,00000E+00	,00000E+00
B	,00000E+00	,00000E+00	,00000E+00	,00000E+00	,00000E+00	,00000E+00
C	,00000E+00	,00000E+00	,00000E+00	,00000E+00	,00000E+00	,00000E+00
D	,00000E+00	,00000E+00	,00000E+00	,00000E+00	,00000E+00	,00000E+00
E	,20000E-01	,20000E-01	,20000E-01	,20000E-01	,20000E-01	,20000E-01
F	,35000E-01	,35000E-01	,35000E-01	,35000E-01	,35000E-01	,35000E-01

*** X-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-1040., -1340., -1240., -1140., -1040., -940., -840., -740., -640., -540.,

*** Y-COORDINATES OF RECTANGULAR GRID SYSTEM ***
(METERS)

-160., -60., 40., 140., 240., 340., 440., 540., 640., 740.,

Best Available Copy

*** OSCEOLA FIVE YEAR PARTICULATE D301

SOURCE #	1---BOILER #1	ONE STACK	46,800
SOURCE #	2---BOILER #2	TWO STACKS	125,000
SOURCE #	3---BOILER #3	ONE STACK	67,000
SOURCE #	4---BOILER #4	ONE STACK	100,000
SOURCE #	5---BOILER #5	TWO STACKS	125,000
SOURCE #	6---BOILER #6	ONE STACK	150,000
SOURCE #	11---SCGC BOILER #1 & #2	-- 2 STACKS EACH	
SOURCE #	12---SCGC BOILER #3	-- 1 STACK	
SOURCE #	13---SCGC BOILER #4	-- 1 STACK	
SOURCE #	14---SCGC BOILER #5	-- 2 STACKS	
SOURCE #	15---NEW SCGC BOILER, #8		
SOURCE #	16---SCGC BOILERS #6 & #7	-- BOTH INTO ONE S	
SOURCE #	101---FPL - RIVIERA	42-03	
SOURCE #	102---FPL - RIVIERA	42-04	
SOURCE #	103---LAKEWORTH UTIL	45-01	
SOURCE #	104---LAKEWORTH UTIL	45-04	
SOURCE #	109---6000 SAMARITAN HOSP	90-02	
SOURCE #	110---6000 SAMARITAN HOSP	90-03	
SOURCE #	111---6000 SAMARITAN HOSP	90-04	
SOURCE #	113---GULF WESTERN	05-03	
SOURCE #	114---GULF WESTERN	05-04	
SOURCE #	115---GULF WESTERN	05-05	
SOURCE #	118---GULF WESTERN	05-09	
SOURCE #	119---GULF WESTERN	05-10	
SOURCE #	120---GULF WESTERN	05-11	
SOURCE #	121---GULF WESTERN	05-12	
SOURCE #	122---GULF WESTERN	05-13	
SOURCE #	132---FLA SUGAR REFIN	50-03	
SOURCE #	133---US SUGAR	61-01	
SOURCE #	134---US SUGAR	61-02	
SOURCE #	135---US SUGAR	61-03	
SOURCE #	137---US SUGAR	61-05	
SOURCE #	138---TALISHAN SUGAR	73-04	
SOURCE #	139---TALISHAN SUGAR	73-05	
SOURCE #	140---TALISHAN SUGAR	73-06	
SOURCE #	141---EVERGLADES SUGAR REFIN	01-01	
SOURCE #	144---EVERGLADES SUGAR REFIN	01-04	
SOURCE #	145---EVERGLADES SUGAR REFIN	01-05	
SOURCE #	146---EVERGLADES SUGAR REFIN	01-06	
SOURCE #	147---US SUGAR CLEW	03-01	
SOURCE #	148---US SUGAR CLEW	03-02	
SOURCE #	149---US SUGAR CLEW	03-03	
SOURCE #	150---US SUGAR CLEW	03-04	
SOURCE #	151---US SUGAR CLEW	03-05	
SOURCE #	153---US SUGAR CLEW	03-07	
SOURCE #	154---US SUGAR CLEW	03-08	
SOURCE #	155---ATLANTIC BOILER	#1	
SOURCE #	156---ATLANTIC BOILER	#2	
SOURCE #	157---ATLANTIC BOILER	#3	
SOURCE #	158---ATLANTIC BOILER	#4	
SOURCE #	159---ATLANTIC BOILER	#5	

*** SOURCE DATA ***

		TYPE=0,1 (G/S)			TYPE=0 (DEG.K) BLDG.	TYPE=0 (M/S) BLDG.									
T	W	Y	A	NUMBER	TYPE=2 (G/S)	BASEL	VERT.DIM.	HORZ.DIM.	DIAM.	HEIGHT	LENGTH	WIDTH			
SOURCE	P	K	PART	NUMBER	E,L	CATE.	*PER	H*+2	(M)	(M)	(M)	(M)			
					(H)	(M)	(M)	(M)	(M)	(M)	(M)	(M)			
	1	0	0	0	3.360	0,	50.	0.0	22.00	342.0	8.98	1.52	0.00	0.00	0.00

*** OSCEOLA FIVE YEAR PARTICULATE 0301

*** SOURCE DATA ***

SOURCE NUMBER	EMISSION				TEMP. (DEG.K)	EXIT VEL. (M/S)	BLDG. BLDG.	BLDG. BLDG.				
	T W Y A SOURCE NUMBER	P K PART. NUMBER	RATE (G/S)						BASE VERT.DIM.	HORZ.DIM.	DIAM.	HEIGHT
			TYPE=0,1	TYPE=2								
2	0	0	9.000	0.	25, 0.0	22.00	342.0	14.22	1.52	0.00	0.00	0.00
3	0	0	4.810	0.	0, 0.0	22.00	342.0	11.23	1.98	0.00	0.00	0.00
4	0	0	7.200	0.	-25, 0.0	22.00	342.0	13.35	1.83	0.00	0.00	0.00
5	0	0	6.000	0.	-50, 0.0	22.00	342.0	12.02	1.52	0.00	0.00	0.00
6	0	0	7.200	0.	-75, 0.0	22.00	342.0	14.41	2.16	0.00	0.00	0.00
11	0	0	13.600	-9300.	-14200, 0.0	24.40	344.0	11.80	1.40	0.00	0.00	0.00
12	0	0	5.700	-9300.	-14200, 0.0	24.40	344.0	15.10	1.60	0.00	0.00	0.00
13	0	0	10.900	-9300.	-14200, 0.0	33.50	344.0	11.60	2.82	0.00	0.00	0.00
14	0	0	9.100	-9300.	-14200, 0.0	24.40	344.0	15.80	1.40	0.00	0.00	0.00
15	0	0	12.000	-9300.	-14200, 0.0	47.20	344.0	11.00	3.05	0.00	0.00	0.00
16	0	0	2.500	-9200.	-14200, 0.0	12.20	606.0	22.40	1.52	0.00	0.00	0.00
101	0	0	32.260	50000.	-7300, 0.0	90.80	408.0	13.23	4.88	0.00	0.00	0.00
102	0	0	32.260	50000.	-7300, 0.0	90.80	408.0	13.23	4.88	0.00	0.00	0.00
103	0	0	4.000	48600.	-23800, 0.0	30.50	408.0	6.67	2.13	0.00	0.00	0.00
104	0	0	3.970	48600.	-23800, 0.0	30.50	408.0	10.74	2.38	0.00	0.00	0.00
109	0	0	1.070	50200.	-10900, 0.0	30.50	366.0	4.58	2.44	0.00	0.00	0.00
110	0	0	1.070	50200.	-10900, 0.0	30.50	366.0	4.58	2.44	0.00	0.00	0.00
111	0	0	1.070	50200.	-10900, 0.0	30.50	366.0	4.58	2.44	0.00	0.00	0.00
113	0	0	1.810	-19300.	-27400, 0.0	16.50	338.0	4.01	3.44	0.00	0.00	0.00
114	0	0	2.560	-19300.	-27400, 0.0	16.50	341.0	4.19	3.44	0.00	0.00	0.00
115	0	0	2.460	-19300.	-27400, 0.0	16.50	348.0	4.09	3.44	0.00	0.00	0.00
118	0	0	2.100	-19300.	-27400, 0.0	19.20	340.0	18.17	2.29	0.00	0.00	0.00
119	0	0	2.160	-19300.	-27400, 0.0	16.50	339.0	4.94	3.44	0.00	0.00	0.00
120	0	0	0.580	-19300.	-27400, 0.0	16.20	345.0	15.05	1.83	0.00	0.00	0.00
121	0	0	6.480	-19300.	-27400, 0.0	16.20	338.0	18.32	1.83	0.00	0.00	0.00
122	0	0	6.050	-19300.	-27400, 0.0	16.20	340.0	12.46	2.29	0.00	0.00	0.00
132	0	0	0.170	6960.	-16200, 0.0	19.80	478.0	4.07	1.16	0.00	0.00	0.00
133	0	0	8.500	-5400.	600, 0.0	19.80	343.0	21.32	1.65	0.00	0.00	0.00
134	0	0	8.600	-5400.	600, 0.0	19.80	341.0	21.40	1.65	0.00	0.00	0.00
135	0	0	9.100	-5400.	600, 0.0	19.80	331.0	25.50	1.65	0.00	0.00	0.00
137	0	0	13.700	-5400.	600, 0.0	30.50	344.0	22.37	2.13	0.00	0.00	0.00
138	0	0	3.140	-11200.	-41100, 0.0	21.30	361.0	5.87	3.20	0.00	0.00	0.00
139	0	0	1.840	-11200.	-41100, 0.0	21.30	361.0	5.87	3.20	0.00	0.00	0.00
140	0	0	1.870	-11200.	-41100, 0.0	22.90	361.0	9.40	3.05	0.00	0.00	0.00
141	0	0	0.600	-31000.	-14200, 0.0	19.50	266.0	3.59	1.22	0.00	0.00	0.00
144	0	0	4.000	-31000.	-14200, 0.0	21.30	305.0	10.06	0.88	0.00	0.00	0.00
145	0	0	4.370	-31000.	-14200, 0.0	16.50	305.0	14.37	0.91	0.00	0.00	0.00
146	0	0	2.390	-31000.	-14200, 0.0	14.00	294.0	20.49	0.15	0.00	0.00	0.00
147	0	0	5.530	-38300.	-10600, 0.0	22.90	341.0	15.81	2.23	0.00	0.00	0.00

*** OSCEOLA FIVE YEAR PARTICULATE D301

*** SOURCE DATA ***

EMISSION RATE TYPE=0,1				TEMP. TYPE=0 (DEG.K)				EXIT VEL. TYPE=0 (M/S)				BLDG.		
T	W	(G/S)		BASE	VERT.DIM.	HORZ.DIM.	DIAM.	HEIGHT	LENGTH	WIDTH				
Y	A	NUMBER	TYPE=2	X	ELEV.	HEIGHT	TYPE=1	TYPE=1,2	TYPE=0	TYPE=0	TYPE=0	TYPE=0	TYPE=0	
SOURCE	P	K	PART,	(G/S)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	
NUMBER	E	E	CATS.	APER	H**2	(M)	(M)	(M)	(M)	(M)	(M)	(M)	(M)	
148	0	0	0	5.390	-38300.	-10600. 0.0	22.90	334.0	16.24	2.23	0.00	0.00	0.00	
149	0	0	0	2.280	-38300.	-10600. 0.0	22.90	341.0	10.36	2.23	0.00	0.00	0.00	
150	0	0	0	1.670	-38300.	-10600. 0.0	19.80	340.0	13.43	1.83	0.00	0.00	0.00	
151	0	0	0	1.530	-38300.	-10600. 0.0	19.80	334.0	8.44	1.83	0.00	0.00	0.00	
153	0	0	0	0.810	-38300.	-10600. 0.0	10.70	316.0	10.61	1.52	0.00	0.00	0.00	
154	0	0	0	0.580	-38300.	-10600. 0.0	15.20	338.0	5.66	1.52	0.00	0.00	0.00	
155	0	0	0	7.000	8730.	-22280. 0.0	18.90	346.0	12.71	1.92	0.00	0.00	0.00	
156	0	0	0	6.570	8730.	-22280. 0.0	18.90	342.0	10.89	1.92	0.00	0.00	0.00	
157	0	0	0	9.250	8730.	-22280. 0.0	18.90	341.0	17.52	1.83	0.00	0.00	0.00	
158	0	0	0	9.250	8730.	-22280. 0.0	18.29	344.0	15.03	1.83	0.00	0.00	0.00	
159	0	0	0	4.490	8730.	-22280. 0.0	27.40	344.0	6.64	1.98	0.00	0.00	0.00	

240°
600m

DAILY: 285

24-HR/PD 1

SGROUPR 1

YEAR 1974

*** OSCEOLA FIVE YEAR PARTICULATE D302 ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 285 *

* FROM SOURCES: 1, -5, 11, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 118.9 AND OCCURRED AT (-620.0, -400.0) *

Y-AXIS (METERS)	X-AXIS (METERS)									
	-1020.0	-920.0	-820.0	-720.0	-620.0	-520.0	-420.0	-320.0	-220.0	
100.0 /	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0 /	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	
-100.0 /	0.5	0.8	1.4	2.4	4.1	6.4	8.6	12.0	6.1	
-200.0 /	4.9	7.4	10.0	15.7	24.3	41.7	60.5	49.0	11.1	
-300.0 /	14.5	20.6	32.0	53.7	85.1	106.9	92.4	42.4	5.5	
-400.0 /	33.5	53.5	81.9	109.3	118.9	101.6	58.6	14.2	2.6	
-500.0 /	70.8	94.9	109.5	109.5	93.6	59.9	19.3	8.5	0.3	
-600.0 /	92.1	98.1	94.4	81.2	55.2	21.4	11.6	3.0	0.0	
-700.0 /	84.8	79.8	69.0	48.9	21.7	11.8	7.0	0.5	0.0	
-800.0 /	67.7	58.8	42.7	20.9	11.0	9.4	2.2	0.1	0.0	

240°
600m

DAILY: 295

24-HR/PD 1

SGROUP# 1

YEAR 1974

*** OSCEOLA FIVE YEAR PARTICULATE D302 ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 295 *

* FROM SOURCES: 1, -5, 11, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 124.0 AND OCCURRED AT (-620.0, -300.0) *

Y-AXIS (METERS)	/	X-AXIS (METERS)								
		-1020.0	-920.0	-820.0	-720.0	-620.0	-520.0	-420.0	-320.0	-220.0
100.0	/	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0
0.0	/	3.4	3.8	4.2	4.7	5.0	5.1	4.5	2.9	0.8
-100.0	/	7.7	8.9	10.7	13.8	19.4	28.5	30.2	37.3	9.3
-200.0	/	17.4	25.9	38.8	56.7	79.0	102.0	101.3	49.3	4.3
-300.0	/	50.1	66.5	86.5	109.2	124.0	104.8	49.4	8.3	0.1
-400.0	/	77.5	94.8	108.9	105.6	74.1	32.9	8.1	0.3	0.0
-500.0	/	89.6	90.8	75.2	46.8	21.8	6.9	0.6	0.0	0.0
-600.0	/	68.0	50.1	30.1	15.3	5.6	0.7	0.0	0.0	0.0
-700.0	/	33.7	20.5	11.3	4.5	0.7	0.0	0.0	0.0	0.0
-800.0	/	14.8	8.7	3.6	0.7	0.0	0.0	0.0	0.0	0.0

2nd High

240°
800m

DAILY: 285

24-HR/PD 1

SGROUP# 2

YEAR 1974

*** OSCEOLA FIVE YEAR PARTICULATE D303 ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* ENDING WITH HOUR 24 FOR DAY 285 *

* FROM SOURCES: 2, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 115.5 AND OCCURRED AT (-590.0, -400.0) *

Y-AXIS / (METERS)	X-AXIS (METERS)									
	-1190.0	-1090.0	-990.0	-890.0	-790.0	-690.0	-590.0	-490.0	-390.0	
0.0 /	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-100.0 /	0.1	0.2	0.3	0.5	1.0	1.7	2.9	4.2	4.8	
-200.0 /	1.8	2.8	4.3	6.6	9.6	13.8	20.7	33.9	45.2	
-300.0 /	7.8	10.5	14.3	20.1	30.8	51.1	79.5	95.9	74.9	
-400.0 /	16.1	22.4	34.0	54.1	82.6	109.2	115.5	92.8	45.7	
-500.0 /	33.7	50.8	74.0	98.5	113.6	111.3	91.5	52.9	15.0	
-600.0 /	64.1	83.2	98.3	104.2	98.8	82.7	52.2	18.4	10.2	
-700.0 /	83.0	90.5	91.1	84.9	72.1	48.2	19.8	11.7	5.0	
-800.0 /	80.6	78.9	72.8	62.2	43.2	19.9	11.4	8.4	1.3	
-900.0 /	68.5	62.8	53.9	38.5	19.3	10.6	9.8	3.6	0.2	

2nd High

140°

80m

DAILY: 295

24-HR/PD 1

SGROUP# 2

YEAR 1974

*** OSCEOLA FIVE YEAR PARTICULATE D303 ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 295 *

* FROM SOURCES: 2, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 124.9 AND OCCURRED AT (-590.0, -300.0) *

Y-AXIS (METERS)	/	X-AXIS (METERS)									
0.0	/	2.3	2.5	2.8	3.0	3.3	3.5	3.7	3.5	2.7	
-100.0	/	6.2	7.0	7.9	8.9	10.3	12.4	16.1	21.9	26.5	
-200.0	/	9.2	11.9	16.6	24.2	36.1	52.7	73.0	92.3	84.5	
-300.0	/	26.3	36.7	50.6	68.0	89.0	112.0	124.9	100.6	41.3	
-400.0	/	53.8	67.2	83.4	102.0	116.8	112.1	76.3	30.9	6.1	
-500.0	/	73.0	86.7	98.5	100.0	82.2	49.9	21.8	5.9	0.3	
-600.0	/	82.1	94.7	75.8	55.6	32.6	15.8	5.1	0.5	0.0	
-700.0	/	67.1	54.5	37.4	22.3	11.8	4.3	0.6	0.0	0.0	
-800.0	/	38.8	26.1	16.2	9.1	3.6	0.6	0.0	0.0	0.0	
-900.0	/	19.0	12.5	7.2	3.0	0.6	0.0	0.0	0.0	0.0	

DAILY: 50

24-HR/PD 1

S GROUP # 1

YEAR 1972

*** D304 INTERACTION WITH US SUGAR BRYANT ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* ENDING WITH HOUR 24 FOR DAY 50 *

* FROM SOURCES: 1, -5, 11, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 55.2 AND OCCURRED AT (700.0, 100.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
----------------------------	-------	-------	-------	-------	-------------------------

100.0 /	48.5	54.0	55.2	54.0	51.7
95.0 /	41.8	46.0	47.1	46.2	44.5
90.0 /	29.3	30.6	30.2	29.2	28.0

DAILY: 361

24-HR/PD 1

SGROUP# 1

YEAR 1972

*** 0304 INTERACTION WITH US SUGAR BRYANT ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* ENDING WITH HOUR 24 FOR DAY 361 *

* FROM SOURCES: 1, -5, 11, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 54.3 AND OCCURRED AT (900.0, 100.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
----------------------------	-------	-------	-------	-------	-------------------------

100.0 /	41.5	47.8	51.7	53.7	54.3
95.0 /	37.9	42.5	45.3	46.7	47.0
90.0 /	31.6	34.3	35.4	35.6	35.1

DAILY: 50
24-HR/PD 1
SGROUP# 2
YEAR 1972

*** D304 INTERACTION WITH US SUGAR BRYANT ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 50 *

* FROM SOURCES: 2, -159,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 54.4 AND OCCURRED AT (700.0, 100.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
----------------------------	-------	-------	-------	-------	-------------------------

100.0 /	45.3	52.0	54.4	54.2	52.7
95.0 /	35.6	40.4	42.4	42.6	41.8
90.0 /	24.3	26.0	26.2	25.8	25.1

DAILY: 361

24-HR/PD 1

SGROUPII 2

YEAR 1972

*** 0304 INTERACTION WITH US SUGAR BRYANT ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* ENDING WITH HOUR 24 FOR DAY 361 *

* FROM SOURCES: 2, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 51.0 AND OCCURRED AT (900.0, 100.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS)
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100.0 /	36.7	42.9	47.2	49.7	51.0
95.0 /	32.2	36.9	40.1	42.0	42.9
90.0 /	26.5	29.4	30.9	31.4	31.9

DAILY: 33

24-HR/PD 1

SCROUP 1

YEAR 1972

*** U305 INTERACTION WITH SCCC AND G&W

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 33 *

* FROM SOURCES: 1, -5, 11, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 32.8 AND OCCURRED AT (800.0, 30.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
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30.0 /	21.4	28.0	31.5	32.8	32.8
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DAILY: 85
24-HR/PD 1
SGROUP# 1
YEAR 1972

*** P305 INTERACTION WITH SCGC AND G&W

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 85 *

* FROM SOURCES: 1, -5, 11, -159,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 32.3 AND OCCURRED AT (500.0, 30.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	900.0	RANGE (METERS)
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30.0 /	32.3	31.9	29.1	26.9	23.7	
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DAILY: 33

24-HR/PD 1

SOURCE# 2

YEAR 1972

*** D305 INTERACTION WITH SCBC AND G&W ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* ENDING WITH HOUR 24 FOR DAY 33 *

* FROM SOURCES: 2, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 32.7 AND OCCURRED AT (900.0, 30.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
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30.0 /	19.9	26.5	30.5	32.3	32.7
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DAILY: 85

24-HR/PD 1

SGROUP# 2

YEAR 1972

*** 0305 INTERACTION WITH SCGC AND G&W

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 85 *

* FROM SOURCES: 2, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 33.9 AND OCCURRED AT (500.0, 30.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
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30.0 /	33.9	33.1	30.9	28.2	25.4
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DAILY: 47
24-HR/PD 1
SGROUP# 1
YEAR 1970

*** 0306 INTERACTION WITH ATLANTIC ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 47 *

* FROM SOURCES: 1, -5, 11, -159,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 72.1 AND OCCURRED AT { 800.0, 340.0 } *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
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340.0 /	51.1	63.6	69.9	72.1	71.0
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DAILY: 47

24-HR/PD 1

SGROUP# 2

YEAR 1970

*** D306 INTERACTION WITH ATLANTIC ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* ENDING WITH HOUR 24 FOR DAY 47 *

* FROM SOURCES: 2, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 73.0 AND OCCURRED AT (900.0, 340.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
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340.0 /	45.1	62.1	69.4	72.5	73.0
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DAILY: 39

24-HR/PD 1

SGROUP# 1

YEAR 1971

*** D307 INTERACTION WITH TALISMAN ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 39 *

* FROM SOURCES: 1, -5, 11, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 40.4 AND OCCURRED AT (600.0, 10.0) *

DIRECTION / (DEGREES) /	600.0	600.0	700.0	800.0	RANGE (METERS) 900.0
----------------------------	-------	-------	-------	-------	-------------------------

20.0 /	8.6	8.7	8.2	7.6	6.9
15.0 /	26.8	28.4	27.7	26.0	23.9
10.0 /	37.2	40.4	40.2	38.2	35.5

DAILY: 39

24-HR/PD 1

SGROUP# 2

YEAR 1971

*** D307 INTERACTION WITH TALISMAN

* * *

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER)

* ENDING WITH HOUR 24 FOR DAY 39 *

* FROM SOURCES: 2, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 40.9 AND OCCURRED AT (700.0, 10.0) *

DIRECTION / (DEGREES) /	500.0	600.0	700.0	800.0	RANGE (METERS) 900.0
----------------------------	-------	-------	-------	-------	-------------------------

20.0 /	10.6	10.6	9.9	9.1	8.1
15.0 /	20.8	30.6	30.0	28.3	26.1
10.0 /	37.2	40.8	40.9	39.3	36.0

DAILY: 75

24-HR/PD 1

SGROUP# 1

YEAR 1974

*** D308 INTERACTION WITH US SUGAR CLEWISTON ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* ENDING WITH HOUR 24 FOR DAY 75 *

* FROM SOURCES: 1, -5, 11, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 49.0 AND OCCURRED AT (800.0, 70.0) *

DIRECTION / (DEGREES) /	600.0	700.0	800.0	900.0	RANGE (METERS) 1000.0
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80.0 /	22.6	24.9	25.6	25.3	24.5
75.0 /	30.8	32.2	31.9	30.8	29.3
70.0 /	43.4	47.5	49.0	48.9	47.8

DAILY: 75
24-HR/PD 1
SGROUP# 2
YEAR 1974

*** D308 INTERACTION WITH US SUGAR CLEWISTON ***

* DAILY 24-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *
* ENDING WITH HOUR 24 FOR DAY 75 *

* FROM SOURCES: 2, -159,

* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 52.0 AND OCCURRED AT (900.0, 70.0) *

DIRECTION /
(DEGREES) / 600.0 700.0 800.0 900.0 1000.0

80.0 /	22.8	24.9	25.7	25.6	24.9
75.0 /	33.0	34.7	34.6	33.6	32.0
70.0 /	44.1	49.3	51.5	52.0	51.3