February 1983

Prepared By:

Air Management Technology Branch

Monitoring and Data Analysis Division

Office of Air Quality Planning and Standards

Research Triangle Park, North Carolina 27711

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(Information Is Subject To Change Until SIPS Are Final)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Air Quality Planning and Standards Research Triangle Park, North Carolina 27711

1 8 FEB 1983

MEMORANDUM

Subject: Status of 1982 Ozone State Implementation Plan (SIP)

Data Bases

From: Richard G. Rhoads, Director

Monitoring and Data Analysis Division (MD-14)

To: Director, Air Management Division,

Regions I, V, and IX

Director, Air and Waste Management Division,

Regions II-IV, VI-VIII, and X

Director, Environmental Services Division,

Regions I-VIII and X

Director, Office of Technical and Scientific Assistance,

Region IX

I am attaching the eighth and last scheduled quarterly report on the status of 1982 ozone SIP data bases. This report summarizes the air monitoring and emission inventory data in each ozone extension area and reflects information gathered through contacts with your staff and review of draft and final SIPs available to us as of February 1, 1983.

We are not providing an overview discussion of the various air quality modeling and emission inventory issues associated with the SIPs, as we have done in previous transmittal memoranda. As you know, the approval/disapproval status of the SIPs for each of the ozone extension areas was recently proposed in the February 3, 1983, Federal Register. As such, we believe the SIPs have reached a point where further overview analysis is no longer necessary. We do hope, however, that our previous comparative analyses have been helpful to you in identifying and resolving data base related issues.

Nevertheless, we would appreciate the continued support of your staffs in bringing any updated or corrected SIP data base information to our attention. Please refer to the Introduction of the attached report to find the appropriate persons to contact in OAQPS regarding the data bases. We are particularly interested in the emission data base, since a number of States have not provided separate 1987 baseline and SIP strategy inventories in their SIPs. As a result, we have had to make various assumptions, based on limited information, to develop the emission summary tables in the attached report.

Attachment

cc: S. Meyers, OAQPS

- C. Elkins, OANR
- R. Smith, OANR
- D. Tyler, CPDD

1982 OZONE SIP DATA BASE STATUS AND SUMMARY REPORT

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1.0 Introduction

This report has been prepared to summarize the status and content of 1982 State Implementation Plan (SIP) data bases and modeling analyses for ozone nonattainment areas. The information has been included as obtained from Environmental Protection Agency (EPA) Regional Offices (ROs) and other readily available sources, with minimal interpretation. Data have been continuously compiled during the SIP development period and distributed quarterly to EPA staff for internal purposes. The report is intended as a national review resource document. Information for individual nonattainment areas may not be as complete and current as is available to the ROs, which are primarily responsible for review of the SIPs. Any information or data contained in this report does not construe approval or disapproval of any portions of the SIPs by EPA.

Comments or corrections to this report are encouraged and may be directed to the respective Office of Air Quality Planning and Standards (OAQPS) contacts. All contacts are located at the U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711.

Air Quality/Modeling

E. L. Martinez, Chief Field Investigation Section/AMTB Mail Drop 14 FTS 629-5575 or (919) 541-5575

Emission Inventories

James H. Southerland, Chief Source Analysis Section/AMTB Mail Drop 14 FTS 629-5585 or (919) 541-5585

1.1 1982 OZONE SIP DATA BASE SUMMARY - NONATTAINMENT AREAS AND REGIONAL CONTACTS

Region	Name	Regional Office Contacts Specialty(ies)	PTS Number	Nonattainment Area
ī	Norm Beloin Betsy Horne Tom Wholley Alan Dion Cynthia Greene	Air Quality Data Modeling Emission Inventory (Highway) Emission Inventory, Control Strategies (CT, RI) Emission Inventory, Control Strategies (MA)	828-6256 223-5630 223-5130 223-5132 223-5130	Boston, MA Springfield, MA Worcester, MA Providence, RI Hartford, CT
II	Art Perritt Rob Predale George Kerr Alex Salpeter	Air Quality Data Modeling Emission Inventory Control Strategies	264-9800 264-9800 264-9869 264-2517	New York (NY/CT/NJ) Trenton, NJ
III	Ted Erdman Craig Ham	Air Quality Data Modeling, Emission Inventory, Control Strategies	597-9318 597-2745	Philadelphia (PA/NJ/DE) Pittsburgh, PA Wilmington, DE Baltimore, MD Washington, (DC/VA/MD)
IV	Doug Cook Doyle Brittain Tom Lyttle Waymond Blackmon	Control Strategies Air Quality Data Hodeling, Emission Inventory (LVLL) Modeling, Emission Inventory (NSHVL)	257-2865 250-3197 257-2864 257-2864	Louisville (KY/IN) Nashville, TN
▼	Steve Goranson John Summerhays Ed Doty Steve Rosenthal	Air Quality Data Modeling, Emission Inventory Emission Inventory Control Strategies	886-6229 886-6067 886-6058 886-6052	Chicago (IL/IN) Cincinnati (OH/KY) Cleveland, OH Milwaukee, WI
VI	Randy Brown Donna Ascenzi	Air Quality Data, Modeling, Emission Inventory Control Strategies	729-1518 729-1518	Houston, TX
AII	John Helvig Wayne Leidwanger Larry Hacker	Air Quality Data Emission Inventory, Control Strategies Modeling	758-4461 758-3791 758-6525	St. Louis (MO/IL)
VIII	Bill Basbagill Paula Macklin Barry Levene Bill Bernardo Butch Rachel	Air Quality Data Control Strategies, Modeling (DNVR) Modeling, Emission Inventory (SLC) Emission Inventory (DNVR) Control Strategies	327-4261 327-6131 327-3711 327-6131 327-6131	Denver, CO Salt Lake City, UT
IX	Steve Body Michael Work Ben Almario Melinda Taplin	Air Quality Data Modeling Emission Inventory Control Strategies	454-8205 454-8221 454-8058 454-8062	Los Angeles/ San Bernardino, CA Sacramento, CA San Francisco, CA San Diego, CA Fresno, CA Ventura/Oxnard, CA
x	Dave Bray John Schweiss Mark Hooper Loren McPhillips	Modeling Air Quality Data Emission Inventory Control Strategies	399-1980 399-1106 399-1949 399-5343	Portland (OR/WA) Seattle, WA

•	 Nonattainment	Inventory at Headqu			rs' Scheduled Detion Date	Headquar Review Cor		
ion	Area	Nonhighway	Highway	Nonhighway	Highway	Nonhighway	Highway	Comments (a)
1	 Massachusetts-ALL	3/19/82	2/23/82	6/18/82		6/18/82	7/23/82	PS DOC. RCV'D 6/18/82
	Rhode Island-ALL	3/19/82	3/23/82	6/17/82		6/17/82	7/23/82	PS/AS DOC. RCV'D 6/17/82
	Connecticut-ALL	4/23/82	4/23/82	7/20/82		7/20/82	7/23/82	
II	New York, NY-ONLY	1/18/82	1/18/82	3/4/82		2/11/82	7/23/82	
	New Jersey-ALL	1/18/82	1/18/82	3/4/82		2/24/82	7/23/82	
III	Philadephia, PA-ONLY	3/30/82	3/30/82	7/6/82		7/6/82	7/23/82	NO PHIL. CO. PS LIST
	Pittsburgh, PA	2/9/82	7/82	3/26/82		3/25/82	7/23/82	AS INV. RCV'D 8/11/82
	Allentown,PA	8/11/82	8/11/82	10/6/82		10/6/82	11/1/82	
	Wilmington, DE	1/25/82	1/25/82	3/11/82		2/23/82	7/23/82	
	Baltimore,MD	1/19/82	1/19/82	5/5/82		2/23/82	7/23/82	
	Washington, DC/MD/VA	7/23/82	7/23/82	7/28/82		7/27/82	11/1/82	METRO REVIEW, NO PS LIST
IV	Louisville,KY/IN	12/29/81	12/29/81	2/12/82		2/12/82	7/23/82	NO KY PS LIST
	shville,TN	12/29/81	12/29/82	2/12/82		2/12/82	7/23/82	
V	. waukee, WI	7/21/82	7/21/82	8/25/82		8/23/82	8/23/82	
	Chicago[IL	3/1/82 2/16/82	7/82 7/82	4/14/82 4/14/82		4/14/82 4/14/82	7/23/82 7/23/82	
	Cincinnati,OH/KY	4/15/82	4/15/82	6/15/82		6/15/82	7/23/82	OH PS INV. RCV'D 6/18/82
	Cleveland, OH	2/16/82	2/16/82	4/2/82		3/10/82	7/23/82	PS INV. RCV'D 6/28/82
	Detroit,MI	8/26/82	8/26/82	9/16/82		9/16/82	11/1/82	NO PS LIST
۷I	Houston,TX	4/19/82	4/19/82	6/3/82		4/26/82	7/23/82	NO NOX INV. RCV'D
	St. Louis[MO	3/16/82 3/16/82	3/1/82 3/1/82	6/14/82 6/14/82		6/14/82 6/14/82	7/23/82 7/23/82	
VIII	Denver,CO	2/22/82	2/22/82	5/28/82		5/28/82	7/23/82	
	Salt Lake City,UT	3/23/82	3/23/82	6/9/82	•	6/9/82	7/23/82	
t.x	LA/San Brn'dino,CA	1/18/82	1/18/82	3/5/82		3/5/82	7/23/82	
	Sacramento, CA	1/18/82	1/18/82	3/5/82		3/5/82	11/1/82	NO PS LIST
:	San Francisco,CA	1/18/82	1/18/82	3/5/82		3/5/82	11/1/82	
	San Diego,CA	1/18/82	1/18/82	3/4/82		2/12/82	11/1/82	
	Fresno, CA	1/18/82	1/18/82	3/5/82		3/5/82	7/23/82	
	Ventura/Oxnard,CA	1/25/82	1/18/82	3/11/82		3/10/82	7/23/82	NO PS LIST
1	tland[OR [WA	2/4/82 4/23/82	2/4/82 5/24/82	3/23/82 7/8/82		3/23/82 7/8/82	7/23/82 11/1/82	
İ	Seattle, WA	4/19/82	5/24/82	6/18/82		6/2/82	7/23/82	

Abbreviations: PS - point source; AS - area source; INV. - inventory; DOC. - documentation; RCV'D - received.

1 1982 UZUNE SIP AI QUALTIY DATA/MUDEL a STATUS SUMMARY

Regions	Nonattainment Area	Air Quality Data Base Accepted	Modeling Analysis Completed And Reviewed	Major Air Quality/Modeling Issues Resolved	Calculated # HC Control
1	Boston, MA	/	/	/	35*
	Springfield, MA	/	/	,	35*
	Worcester, MA	/	,	/	40
	Providence (RI/MA)	/	/	,	12*
	Hartford, CT	/	/		(48*)
	New Haven/ Bridgeport, CT	,	/		(48°)
11	New York (NY/NJ/CT)	,	/		60*
	Trenton, KJ		Included with Philadelphia		44
111	Philadelphia (PA/NJ/DE) /	/	,	44
	Pittsburgh, PA	/	/	,	36.7
	Allentown, PA	/	/	/	27.5
	Wilmington, DE	************************	Included with Philadelphia		44
	Baltimore, MD	1	1	· · · · · · · · · · · · · · · · · · ·	49
	Washington (DC/MD/VA)	/	/	/	46
14	Louisville, KY	,	,	,	32.5
	Mashville, TN	/	/	/	9.2
٧	Chicago (IL/IN)	,			(20-41*)
	Cincinnati (OH/KY/IN)	/	/	1	14.3
	Cleveland, OH	/	,	,	8.0*
	Detroit, MI	✓	,	≠	27.1
	Milwaukee, WI	1			(29.4-40.9*)
VI	Houston, TX	/	,		41*
AII	St. Louis (MO/IL)	/			(24.9°)
IIIV	Denver, CO	•	,	,	54
	Salt Lake City, UT	/	/	/	29
1 X	Los Angeles, CA (SCAB)	,	,	85*
	Sacramento, CA	,	,	,	50
	San Francisco, CA	/	/	•	31
	San Diego, CA	/			31
	Fresno, CA	/	/		70*
	Ventura/Oxnard, CA	,	/	,	42(Ojai Valley) 48(Oxnard Plain)
X	Portland, OR/ Vancouver, WA	•	•	/	9.5*
	Seattle, WA	/	,	,	24.3*

Note: / Indicates action(s) completed.

Qualifying footnotes regarding these control values contained in the individual modeling sheets for the nonattainment areas.

⁽⁾ Tentative values.

2.0	NONATTAINMENT	AREA	DATA	SUMMARY	SHEETS		

2.1 Region I

Boston, MA
Worcester, MA
Springfield, MA
Hartford, CT
New Haven/Bridgeport, CT
Providence, RI

CITY: Boston STATE(s): Massachu	setts REGION: I
COUNTIES: Suffork, Barnstable, Dukes, Plymon	th, Bristol, Norfolk, and parts of Middlesex,
Worcester (Merrimack Valley, Metropolitan Bo	ston and Southeastern Massachusetts APCD's)
RESPONSIBLE AGENCIES: Massachusetts Departm	ent of Environmental Quality Engineering - All
EMISSION INVENTORY DATA SUMMARY	
POLLUTANTS INVENTORIED: VOC, NO. BASE Y	EAR: 1980 03 ATTAINMENT YEAR: 1987
DATE RECEIVED BY REGIONAL OFFICE: 3/9/82	POPULATION: 4,583,910 (1980)
REVIEW COMPLETION DATES: NONHIGHWAY 6/18/82	HIGHWAY 7/23/82 4,838,215 (1987)
VOLATILE ORGANIC COMPOUNDS kg/day	NITROGEN OXIDES kg/day
542,343 Point (19%) 440,330 Area (35%) 250,698 Righway (46%) 97,020 Righway (30%) Righway (30%) 100 Point (16%) 319,716 319,716 268,651 Area (54%) 97,020 Righway (30%) Righway (30%)	708,263 Point (37%) Point (40%) 445,311 Area (16%) 332,556 Highway (47%) Representation of the state of
Base Baseline SIP Strategy Year Projection Projection 1980 1987 1987 (a)	Base Baseline SIP Strates Year Projection Projection 1980 1987 1987

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline F	rojection	SIP Projection Total 3			on SIP Projection Total % Change(b			hange(b)
Pollutants	VOC	NO.	VOC	NO _x	VOC	NO.	VOC	NO.			
Point Sources Nonhighway Area Highway	22.3 41.3 54.7	57.4 24.6 72.5	10.6 35.5 20.0	54.8 25.3 55.7	10.6 10.6 20.0	54.8 25.3 55.7	-50 - 9 -61	+ 1 + 8 -19			
TOTAL	118.3	154.5	66.1	135.8	66.1	135.8	-38	- 7			

Number of Facilities Emitting Greater than 250 kg/day (100 TPY): VOC 62 NO_X (c)

COMMENTS: (a) RACT on major nonRACT sources included in SIP but not in above tables (estimated at 5,200 TPY statewide). Controls included in SIP are RACT I,II, I/M, TCMs, and all 100+ TPY sources (including RACT III). (b) Calculated percent change is for total emissions, not normalized emissions per capita. (c) Only fuel use data supplied for major NO_x facilities summmarized for entire state (no breakdown by individual plant).

- o Air Quality Data Base Status
 - Base Years: 1978, 1979 & 1980 (expected effect of 1981 data on control strategy to be summarized in final SIP.)
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/NX

-	Are all	data	entered	in	SAROAD?	Yes 🕅 🛣 X	Ιf	No,	what	is	missing?	

- Accepted by EPA? Yes XXX; if Yes, date 8/24/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Boston, MA

POLLUTANTS	SARDAD #	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	DATA DATA	PROBE HT. (m)	FROM CC (km)	DISTANCE FROM RD. (m)	TRAFFIC ADT
reiDC/NOx/ Ozone	220240021A05	340 Bremen Ave.	East Boston	74.	IWS	center city/ residential	1980	4.0	2	10.0	3000
NACC/NOX Ozone	222380005A05	Victory Rd.	Watertown	M			1980				
Ozone	300480005F01	18 Mulberry St.	Nashua/ Hillsborough	994	SLANS	center city/ commercial	1978	3.1	60		
Ozone	300540009F01	Yaughn St.	Portsmouth/ Rockingham	394	NAS	center city/ commercial	79-81	3.1	80	12.0	1000
0zone	221060001P05	60 Westview St.	Lexington	MA		1	1979		19	i	
Ozone	220730001F03	Georgetown High School Parking Lot	Georgetown	HA.		suburben/ residential	78-81	4.2			
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OTHER:	
Wind data collected at _all available area wind data sources used to select potential modeling days	
Wind data fromnearest NAS station (hourly) used to construct trajectory paths	used for modeling

Mixing height data from Albany (Radiosonde) used for modeling

Non-attainment a	rea B	Boston,	MA
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MODELING

0	Mo	de	1 i	ng	St	atus
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	Model used: <u>City-Specific EKMA</u>
	- Preliminary Modeling Completed? Yes/ND; if Yes, date 1/29/82
	- Reviewed by: RO(s) Yes OAQPS No
	- Final Modeling Completed? Yes/XXXX; if Yes, dateunknown
	- Reviewed by: RO(s) Yes OAQPS Yes
0	Key Modeling Information (Final Modeling Only)
	- Modeling Davs Selected? Yes/%%; if Yes, date unknown

Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak O ₃ Concentration (ppm)	Calculated % HC Control
Nashua, NH	#300480005F01			
5/30/78 8/15/78 8/13/78	9.4* 9.4* 9.4*	0.033 0.060 0.024	0.24 0.160 0.125	52.1 34.7 8.7
Lexington, M	A #22106001F03			
7/25/79	9.4*	0.085	0.135	35.2
Georgetown, i	MA #220730001P	05		
7/31/79 7/25/79 8/01/80	9.4* 9.4* 9.4*	0.070 0.085 0.118	0.128 0.135 0.140	26.0 13.9 7.1
Portsmouth, I	MA #300540009F	01		
8/01/80	9.4*	0.118	0.132	0

^{*}Seasonal median 6-9 a.m.

0	% HC Control	Needed To Attain 03 NAAQS	35**
U	& HC CONTROL	needed to Attath U3 MAAQS	

Remarks: **Since both Boston and Springfield contributed to standard exceedances at the Nashua, NH monitor, this % control would ensure that at least one of these urban areas (Springfield) would not contribute any exceedances while the other, (Boston) would be allowed one per year.

COUNTIES: Worcester (most of county), Middlesex (northwest corner) (Central Massach Air Pollution Control District) RESPONSIBLE AGENCIES: Massachusetts Department of Environmental Quality Engineering EMISSION INVENTORY DATA SUMMARY POLLUTANTS INVENTORIED: VOC, NO. BASE YEAR: 1980 03 ATTAINMENT YEAR: DATE RECEIVED BY REGIONAL OFFICE: 3/9/82 POPULATION: 647,299 REVIEW COMPLETION DATES: NONHIGHWAY 6/18/82 HIGHWAY 7/23/82 674,636 VOLATILE ORGANIC COMPOUNDS kg/day 111,407 Point						
RESPONSIBLE AGENCIES: Massachusetts Department of Environmental Quality Engineering EMISSION INVENTORY DATA SUMMARY POLLUTANTS INVENTORIED: VOC, NO. BASE YEAR: 1980 O3 ATTAINMENT YEAR: DATE RECEIVED BY REGIONAL OFFICE: 3/9/82 POPULATION: 647,299 REVIEW COMPLETION DATES: NONHIGHWAY 6/18/82 HIGHWAY 7/23/82 674,636 VOLATILE ORGANIC COMPOUNDS NITROGEN OXIDES kg/day 111,407	ng - ALL					
EMISSION INVENTORY DATA SUMMARY POLLUTANTS INVENTORIED: VOC, NO. BASE YEAR: 1980 O3 ATTAINMENT YEAR: DATE RECEIVED BY REGIONAL OFFICE: 3/9/82 POPULATION: 647,299 REVIEW COMPLETION DATES: NONHIGHWAY 6/18/82 HIGHWAY 7/23/82 674,636 VOLATILE ORGANIC COMPOUNDS NITROGEN OXIDES kg/day 111,407	ng - ALL					
POLLUTANTS INVENTORIED: VOC, NO. BASE YEAR: 1980 O3 ATTAINMENT YEAR: DATE RECEIVED BY REGIONAL OFFICE: 3/9/82 POPULATION: 647,299 REVIEW COMPLETION DATES: NONHIGHWAY 6/18/82 HIGHWAY 7/23/82 674,636 VOLATILE ORGANIC COMPOUNDS NITROGEN OXIDES kg/day 111,407						
DATE RECEIVED BY REGIONAL OFFICE: 3/9/82 POPULATION: 647,299 REVIEW COMPLETION DATES: NONHIGHWAY 6/18/82 HIGHWAY 7/23/82 674,636 VOLATILE ORGANIC COMPOUNDS NITROGEN OXIDES kg/day 111,407						
REVIEW COMPLETION DATES: NONHIGHWAY 6/18/82 HIGHWAY 7/23/82 674,636 VOLATILE ORGANIC COMPOUNDS kg/day 111,407	1987					
VOLATILE ORGANIC COMPOUNDS kg/day 111,407	(1980)					
kg/day kg/day	REVIEW COMPLETION DATES: NONHIGHWAY 6/18/82 HIGHWAY 7/23/82 674,636 (1987)					
	A A.					
Area (17%) Point (< 1%) Area						
BaseBaselineSIP StrategyBaseBaselineSYearProjectionProjectionYearProjection198019871987 (a)19801987						

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline P	rojection	SIP Pr	ojection	Total 7 (hange(b)
Pollutants	VOC	NO.	VOC VOC	NO.	VOC	NO.	VOC	NO.
Point Sources Nonhighway Area Highway	43.7 64.0 64.4	0.3 17.9 85.1	19.7 49.1 23.0	0.3 18.1 61.4	19.7 49.1 23.0	0.3 18.1 61.4	-53 -20 -63	-17 + 6 -25
TOTAL	172.1	103.3	91.8	79.8	91.8	79.8	-44	-19

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 13 NO_X (c)

COMMENTS: (a) Credit not included in emission totals for RACT on major nonRACT sources

estimated at 5,200 TPY statewide). Controls included in SIP are RACT I, II, I/M, TCMs, and RACT on all 100+ TPY sources (including RACT III). (b) Calculated percent change is for total

emissions, not normalized emissions per capita. (c) Only fuel use data supplied for major NO_X
facilities for entire state (no breakdown by individual plant).

Mon-attainment area worcester, MA	Non-attainment	area	Worcester, MA	
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- o Air Quality Data Base Status
 - Base Years: 1978,1979 & 1980 (expected effect of 1981 data on control strategy to be summarized in final SIP.)
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/NXX
 - Are all data entered in SAROAD? Yes/Να. If No, what is missing? _____
 - Accepted by EPA? Yes/Nox; if Yes, date 8/24/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

OLLUTANTS	SAROAD #	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	FROM CC	DISTANCE FROM AD. (m)	TRAFFI
etOC/NOx/ Ozone	222640019F01	DPW Yard, Belsont St.	Norcester	MA.	KAVIS	center city/ residential	78-60)*-81	5.4		98	3500
)zone	220730001F03	Georgetown High School Perking Lot	Georgetown	M		suburban/ residential	78-81	4.2	95		
) Dzene	221060001P05	60 Mestyles St.	Lexington	I MA			1979		52		
)zone	30054G0Q9FG?	Yeughn St.	Portsmouth/ Rockingham	Nest .	NARE	center city/ residential	79-81	3.1	125	12	1000
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ER:			

Wind data collected atall available area wind data sources used to select potential modeling days	
Wind data fromnecrest MrS station (hourly) used to construct trajectory paths	used for modeling
Mixing height data from Portland, ME (Radiosonde) and Sudbury, MA (Acoustic Sounder)	used for modeling
A company of the control of the cont	

MODELING

0	Modeling	Status
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0

7/23/79 7/10/79

7/21/79

6/29/79

7/21/80 6/25/80

Model us	ed:Ci	ty-Specific EKMA		
- Preli	minary Modeling	Completed? Yes/N	仪; if Yes, date	1/29/82
- Revie	wed by: RO(s)	Yes	OAQPS No	
	_		Yes, date <u>unkno</u>	
			OAQPS Yes	
Key Modeli	ng Information	(Final Modeling O	nly)	
- Model	ing Days Select	ed? Yes/Nxx; if Ye	s, date <u>unkno</u>	wn
Site-Days Modeled	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 0 ₃ Concentration (ppm)	Calculated % HC Control
Georgetown,	MA #2207300018	F01		
7/21/78 7/10/79 '30/78 _/17/79 7/08/78	8.3* 8.3* 8.3* 8.3*	0.097 0.073 0.071 0.096 0.08	0.155 0.144 0.145 0.140 0.125	39.9 28.8 27.4 17.1 0
lexington. N	4A #221060001P0) 5		

0.11

0.073

0.093

0.06

0.083

0.11

0.16

0.16

0.125

0.125

0.135

0.127

43.2

40.0

7.2

0

13.5

0

Portsmouth, MA #300540009F01

8.3*

8.3*

8.3*

8.3*

8.3*

8.3*

0	% HC Control Needed To A	ttain O ₃ NAAQS	40
	lemarks:		

^{*}seasonal median 6-9 a.m.

CITY: Springfield STATE(s): Ma	seachusetts REGION: I						
COUNTIES: Franklin, Eampshire, Hampen, and Berkshire (Berkshire and Pioneer Valley Air							
Pollution Control Districts)							
RESPONSIBLE AGENCIES: Massachusetts Depar	tment of Environmental Quality Engineering - ALL						
EMISSION INVENTORY DATA SUMMARY							
POLLUTANTS INVENTORIED: VOC. NO. BASE	YEAR: 1980 03 ATTAINMENT YEAR: 1987						
DATE RECEIVED BY REGIONAL OFFICE: 3/9/82	POPULATION: 878,270 (1980)						
REVIEW COMPLETION DATES: NONHIGHWAY 6/18/	82 HIGHWAY 7/23/82 918,449 (1987)						
VOLATILE ORGANIC COMPOUNDS	NITROGEN OXIDES						
kg/day	kg/day						
Point (33%)	Point (18%)						
90 000	99,224						
89,022	91,946 Point 91,946						
Area Point Point	(18%) (26%) (26%) (26%) (26%) (7,517)						
(287) (297) (297) (297) 53,284	63,678 Area (217) (217)						
51,625 Area Area	48,473 48,473						
(46X) (46X)	Eighway (642)						
Eighway 18.918 18.918	Highway Highway						
Highway 18,918 - 18,918	(53%)						
(25%)							
Base Baseline SIP Strategy	Base Baseline SIP Strategy						
Year Projection Projection 1980 1987 1987 (a)	Year Projection Projection 1980 1987 1987						
1707 (2)	1900 1901 1901						

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline I	rojection	SIP Pr	ojection	Total Z	Change(b)
Pollutants	VOC	NO.	VOC	NO.	VOC	NO_	VOC	NO.
Point Sources Nonhighway Area Highway	50.4 42.7 58.7	20.5 20.7 71.8	24.1 37.3 20.6	26.6 20.7 52.8	24.1 37.3 20.6	26.6 20.7 52.8	-50 - 8 -63	+36 + 8 -24
TOTAL	151.8	113.0	82.0	100.1	82.0	100.1	-44	- 7

Number of Facilities Greater than 250 kg/day (100 TFY): VOC 31 NO_X (c)

COMMENTS: (a) Gredit not included in emission totals for RACT on major nonRACT sources

(estimated at 5,200 TFY statewide). Controls included in SIP are RACT I, II, I/M, TCHs, and

RACT on all 100+ TFY sources (including RACT III). (b) Calculated percent change is for total

emissions, not normalized emissions per capits. (c) Only fuel use data supplied for major NO_X

facilities summarized for entire state (no breakdown by individual plant).

Non-attainment area	Springfield, MA
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med for modeling.

AIR QUALITY

- o Air Quality Data Base Status
 - Base Years: 1978, 1979 & 1980 (expected effect of 1981 data on control stratagy to be summarized in final SIP)
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/No
 - Are all data entered in SAROAD? Yes/Mb. If No, what is missing?
 - Accepted by EPA? Yes/M&; if Yes, date 8/24/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Springfield, NA

OTHER:

LLUTAITS	SAROAD #	SITE ID	CITY/COURTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	FROM CC	DISTANCE FROM RD. (m)	TRAFF
OC/NOx/ Ozone	222160014F01	Fernbank St. & Morth Boston Rd	Springfield	MA.	NAS	suburban/ commercial	80-81	3.6	8	17	1000
tone	220060001F01	University of Messachusetts	Amherst	HA			78-79		33		
rone	300480005F01	18 Mulberry St.	Nashua/ H111sbourgh	-	SLAMS	center city/ commercial	1978	3.1	118		
tone	220720002F01	Airport ,	Gardner	**	SLAVE		1979		70		Ì
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Wind data collected at all available area wind data sources used to select potential endeling days				
Wind data from _nearest MIS station (hourly) used to construct trajectory paths	used	for	ende l	<u>-</u>
Mixing height data fromAlbany (Radiosonde)	_		made)	

0.135

0.125

0.150

0.140

0.138

0.127

23.6

34.5

25.2

18.5

4.1

0

MODELING

0	Model	ing	Status	S
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6/28/79

6/11/78

8/16/78

7/21/79

7/10/79

Nashua, NH 7/21/78

Model us	sed:City-	Specific_EKMA		
- Preli	iminary Modeling	Completed? Yes/	lα; if Yes, date	1/29/82
- Revi	ewed by: RO(s) _	Yes	OAQPS No	
- Final	l Modeling Compl	eted? Yes/Na; if	Yes, dateunkno	own
- Revie	ewed by: RO(s) _	Yes	OAQPS <u>Yes</u>	
o Key Model	ing Information	(Final Modeling (nly)	
- Mode	ling Days Select	ed? Yes/No; if Ye	es, date <u>unkr</u>	nown
Site-Days Modeled	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm)		Calculated % HC Control
Amherst, MA	#220060001F01	(
6/12/78 7/14/79	7* 7*	0.099 0.141	0.155 0.152	36.5 35.0

0.06

0.11

0.103

0.06

0.06

0.084

*Seasonal median 6-9 a.m.

Gardner, MA #220720002F01

7*

7*

#300480005F01

7*

o % HC Control Needed To Attain 03 NAAQS 35**

o Remarks: **Since both Boston and Springfield contributed to standard exceedances at the Nashua, NH monitor, this % HC control would ensure that at least one of these urban areas (Springfield) would not contribute any exceedances while the other, (Boston) would be allowed one per year.

CITY: Hartfe	ord	_ STATE(s):	Connecticut			REG:	ION:	<u> </u>
COUNTIES: H	artford are	a only (a)						
RESPONSIBLE A	AGENCIES:	Connectic	ut Department	of Environm	ental Pro	tection		
EMISSION INV	ENTORY DATA	SUMMARY						
POLLUTANTS II	NVENTORIED:	VOC, NO.	BASE YEAR	R: <u>1980</u>	O ₃ ATT.	AIRMENT YEA	R: <u>198</u>	7
DATE RECEIVE	D BY REGION	AL OFFICE:	4/15/82		POPUL	ATION: 807,	766 (19	BO)
REVIEW COMPLI	ETION DATES	: NONHIGHWA	AY 7/20/82	HICHWAY 7/2	23/82	836,	652 (19	87)
VOL.	ATILE ORGAN kg/day	IC COMPOUND:	s 	, 	NI	IROGEN OXID kg/day	ES	
108,282 Point (20%) 90,376 Area (32%) 58,549 Highway (48%) Base Year 1980	74,582 56,492 Area (41%) 30,305 Highwa (35%) Baselin Projecti 1987 TOTA	64 47 A (1) 20 (32%) Hi e SIP S on Proj	,030 ,328 rea 42%) ,408 ghway trategy ection 987 (b) SIONS NORMAL	88,7 Poir (232 68,7 62,1 Right (702 Base Yese 198	732 Area (72)	Highway (65%) Baseline Projection 1987	Area (9%)	76,565 Point 57,229 50,010 Highwa (65%) Strate jectio 1987
entory	Base	Year	Baseline 1	Projection	SIP Pro	jection T	otal X	Change
lutants	VOC	NO*	VOC	NO.	VOC	NO.	VOC	NO
nt Sources highway Area hway	23.5 39.0 57.6	24.8 8.2 76.9	21.6 36.2 31.3	23.1 8.6 59.8	20.0 32.2 24.5	23.1 8.6 59.8	- 7 -15 -65	0 + 4 -36
AL	120.1	109.9	89.1	91.5	76.5	91.5	-41	-19
ber of Facilion MENTS: (a) For	or Hartford	County onl	y. Inventor	y area does :	not corres			
SIP are RACT	I, II, I/H,	TCMs, and	RACT on all	100+ TPY sout	ces (incl	uding RACT	III).	
Calculated po	ercent chan	ge is for t	otal emission	as, not norm	alized emi	ssions per	capita.	

- o Air Quality Data Base Status
 - Base Years: 1975, 1976 & 1977 (expected effect of 1978, 1979 & 1980 data on control strategy to be summarized in final SIP; no plans to consider 1981 data.)
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/MM; However, State has not presented summary of data for recent three years nor assessed effect on control strategy in SIP. The only NMOC data available, gathered in 1981, is known to be unreliable.
 - Are all data entered in SAROAD? Yes/Me. If No, what is missing?
 - Accepted by EPA? Yes/MM; if Yes, date ______1/18/83
- Site Descriptions (for sites used in SIP analysis.)

Mon-Attainment Area

Connecticut (Statewide)

PRGBE DISTAN HT. (m) FROM (km)	MILABLE PROBE	CE DISTANCE TRAF CC FROM RD. AL
6 NA*	5-77 6	
4.5 W.	5-77 4.5	
14 NA*	6-77 14	
1.8 NA*	5-77 1.8	
9 M-	5-77 9	
4.5 NA*	5-77 4.5	
4 NA*	5-77 4	
5.8 KA*	5-77 5.8	
7.5 MA*	5-77 7.5	
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OTM	TB .				

Wind data collected at Bradley, Sikursky (CT) and Central Park (NT) by MMS used in trajectory analysis to select possible modeling days.

Wind data, Once possible modeling days were selected, not used in standard EDNA codeling.

Rixing height data not used for standard EDNA Hence, available regional data not used for modeling.

Non-attainment area	Hartford,	CT
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MODELING

0	Mo	del	ina	Sta	tus
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Model us	sed: Standard	d EKMA (applied s	tatewide)	
data	base. (same as	79 SIP analysis)	X; if Yes, date <u>1/2</u> OAQPS <u>Yes, previou</u>	9/82 Using pre-79 sly in 79 SIP review.
- Final	Modeling Comple	eted? Yes/No; if	Yes, dateunkno	wn
- Revie	ewed by: RO(s) _	Yes*	OAQPS Yes*	
o Key Modeli	ng Information	(Final Modeling O	nly)	
- Model	ing Days Select	ed? <u>Yes/Ně;</u> if Ye	s, date <u>unkno</u>	wn
Site-Days Modeled	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 0 ₃ Concentration (ppm)	Calculated % HC Control
Groton, CT	#070350123F01			
8/02/75 8/25/76 8/20/76 8/21/76	9.5** 9.5** 9.5** 9.5**	0.050 0.060 0.065 0.095	0.145 0.145 0.144 0.148	55 55 54 48

Remarks: *Still pending is review of recent air quality data on control strategy.

to be discussed in final SIP submittal. **Default value. ***Tentative until

effect of recent air quality data evaluated.

CITY: New Haven STATE(s): Connecticut	REGION: 1										
COUNTIES: New Haven area only (Fairfield County	is added to New York City AQCR) (a)										
RESPONSIBLE AGENCIES: Connecticut Department	of Environmental Protection										
EMISSION INVENTORY DATA SUMMARY											
POLLUTANTS INVENTORIED: VOC, NO. BASE YEAR:	1980 O3 ATTAINMENT YEAR: 1987										
DATE RECEIVED BY REGIONAL OFFICE: 4/15/82	POPULATION: 761,337 (1980)										
REVIEW COMPLETION DATES: NONHIGHWAY 7/20/82	HIGHWAY 7/23/82 776,128 (1987)										
VOLATILE ORGANIC COMPOUNDS kg/day	NITROGEN OXIDES kg/day										
Point	115,953										
(23%)	Point										
100,954 Point	(44Z) 99,815 99,815										
75,549											
Area 70,264											
(30%)	64,319										
49,044 (32%)	58,908 Area 48,642 48,642 58,000										
Area (38%) Area	43,129 43,129 Area										
(48%) <u>22,167</u> (40%)	(51%) Highway (6%) Highway										
(32X) Righway (28Z)	(432)										
Base Baseline SIP Strategy	Base Baseline SIP Strategy										
Year Projection Projection	Year Projection Projection 1980 1987 1987										
1980 1987 1987 (b)	1700 1707 1707										

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline P	rojection	SIP Pro	jection	Total Z	Change(c)
Pollutants	VOC	NO _x	VOC	NOx	VOC	NO _x	VOC	NO _x
Point Sources Nonhighway Area Highway	30.7 37.8 64.1	67.8 7.1 77.4	27.3 34.6 28.6	65.9 7.1 55.6	25.6 31.2 22.3	65.9 7.1 55.6	-15 -16 -65	- 1 + 2 -27
TOTAL	132.6	152.3	90.5	128.6	79.1	128.6	-39	-14

Number of Facilities Greater than 250 kg/day (100 TFY): VOC 18 NO_X 8

COMMENTS: (a) For New Haven County only. Inventory area does not correspond with modeling areas.

(b) 1987 SIP strategy inventory for New Haven estimated from statewide totals. Controls included in SIP are RACT I, II, I/M, TCMs, and RACT on all 100+ TPY sources (including RACT III).

(c) Calculated percent change is for total emissions, not normalized emissions per capita.

- o Air Quality Data Base Status
 - Base Years: 1975, 1976 & 1977 (expected effect of 1978, 1979 & 1980 data on control strategy to be summarized in final SIP; no plans to consider 1981 data.)
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/M&; However, State has not presented summary of data for recent three years nor assessed effect on control strategy in SIP. The only NMOC data available, gathered in 1981, is known to be unreliable.
 - Are all data entered in SAROAD? Yes/Ma. If No, What is missing? _____
- o Site Descriptions (for sites used in SIP analysis.)

Non-Assainment Area

LLUTANTS	SAROAD 1	SITE LO	CITY/COUNTY	STATE	SITE	STATEON TYPE	AVAILABLE DATA	PROBE HT. (m)	FROM CCI	DISTANCE FROM RG (m)	TRAFFI
zone	070060123F01	Holler St. & Bornus Ave.	Bridgeport/ Fairfield	cr		center city/ residential	75-77	6	MA*		
cone	070175123F01	Connecticut State College Osborne & 7th	Dambury/ Fairfield	(T		Suburban/ residential	75-77	4.5	M-		İ
tone	070190123F01	Caroline ST. Ext. mear Shelton Indust. Zone	Derby/ New Haven	ET		center city/ commercial	76-77	14	NA*		
10Fe	070330004FQL	Bruce Golf Course, King St.	Greenwich/ Fairfield	CT	. !	rural/ near urban	75-77	1.8	NA*		
one	070350123F0L	University of Connecticut Avery Point	Groton/ New Haves	cī		suburban/ residential	75-17	g	MA"		
one	070400001F01	Handen Ag. Exp. Stn.	Handen/ New Haven	et .		rurel/ agricultural	75-77	4.5	W.*		
one	070220013501	30 Remington E. Hertford	Hartford/ Hartford	ਿ	, !	suberban/ residential	75-77	4	M.*		
300e	070570007F01	Conn. Yalley Hosp. Eastern Dr.	Middletown/ Middlesex	a		rural/ unqualified	75-77	5.8	10X*		
tone	070700123F01	715 Statu St.	Now Haven/ New Haven	េ	<u> </u>	center city/ residential	75-77	7.5	MA*		
					-						

* Mat	applicable	Stateride

Wind data collected at Bradley, Sikursky (CT) and Central Park (NY) by MES used in trajectory analysis to select possible modeling days.

Wind data. Once possible modeling days were selected, not used in standard EDWA modeling.

Mixing beight data not needed for standard EDWA Hence, available regional data not used for modeling.

MODELING

0	Mod	ieìi	ng	Sta	tus
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	Model used:	Standard	EKMA (applied	statewide)		
	Preliminary data base.Reviewed by	(same as	79 SIP analys	is)		? Using pre-79 in 79 SIP revie
	- Final Model	ing Complet	ted? Yes XXX;	if Yes, date	unknown	
	- Reviewed by	: RO(s)	Yes*	OAQPS	Yes*	
0	Key Modeling Inf	ormation (F	inal Modelin	g Only)		•
	- Modeling Da	ys Selected	i? <u>Yes/NXX;</u> if	Yes, date _	unknown	
			Transported	Peal	< 0 ₃	

Site-Days Modeled	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 0 ₃ Concentration (ppm)	Calculated % HC Control
8/02/75	9.5**	0.050	0.145	55
8/25/76	9.5**	0.060	0.145	55
8/20/76	9.5**	0.065	0.144	54
8/21/76	9.5**	0.095	0.148	48

0	% HC Control Needed To Attain 03 NAAQS	48***	
0	Remarks: *Still pending is review of red	cent air quality data on	control strategy
	to be discussed in final SIP submittal.	**Default_value. ***T	entative until
	effect of recent air quality data evalua	ated.	-

CITY: Providence	STATE(s): Rhode Is	land	. REGIO	N: <u>I</u>
COUNTIES: Rhode Island	- Providence, Kent, Wa	shington, Bristol ar	nd Newport	
· · · · · · · · · · · · · · · · · · ·				
RESPONSIBLE AGENCIES: No.				
Department of Environmen	tal Management; Highw	ay - Rhode Island De	partment of Sta	te Planning
EMISSION INVENTORY DATA	SUMMARY			
POLLUTANTS INVENTORIED:	VOC, NO. BASE YEA	R: <u>1980</u> 0 ₃ A	ATTAINMENT YEAR:	1982
DATE RECEIVED BY REGIONA	L OFFICE: 3/82	POI	PULATION: 947,1	54 (1980)
REVIEW COMPLETION DATES	NONHIGHWAY 6/17/80	HIGHWAY 7/23/82	953,0	00 (1982)(a)
VOLATILE ORGANI kg/day	C COMPOUNDS		NITROGEN OXIDES kg/day	
168,817 Point			-	
(24Z) 149,111 Point	149,111 Point	Point		
(27%)	(27%)	(18%)	Poin	t (17%)
127,875 Area		1/	1	1
(24%) 109,260	109,260	(105,227	-	
87,995 Area (25%)	Area (25%)	86,468	97,559	97,559
	1 1 1 1 1 1		80,800	80,800
72,530	72,530	76,968	71,300	71,300
		Are	a Ar	ea
Highway Highway (52%) (48%)	Highway (48Z)	Highway (92	(1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (02) Highway (732)
			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Base Baseline	SIP Strategy	Base	Baseline	SIP Strategy
	n Projection	Year		Projection
1980 1982	1982 (Ъ)	1980	1982	1982

TOTAL AQCE EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline	Projection	SIP Pr	ojection	Total Z	Change(c)
Pollutants	VOC	NO.	VOC	NO _x	VOC	NO _x	voc	NO.
Point Sources Nonhighway Area Highway	43.3 42.1 92.9	19.8 10.0 81.3	41.8 38.6 76.1	17.6 10.0 74.8	41.8 38.6 76.1	17.6 10.0 74.8	- 3 - 8 -18	-10 0 - 7
TOTAL	178.3	111.1	156.5	102.4	156.5	102.4	-12	- 7

 $NO_{\mathbf{X}}$ (d) COMMENTS: (a) No 1982 population for Rhode Island. Estimated by back calculation from consumer /commercial solvent emissions. (b) Controls in SIP include RACT I, II and I/M. While I/M is included in calculation of totals, Rhode Island claims that I/M is not part of their SIP since an extension to 1987 is no longer requested (but will maintain program). (c) Calculated percent change for total emissions, not emissions per capita. (d) No listing of major NO_x sources.

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 26

Non-attainment	area	Providence, RI

- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/No
 - Are all data entered in SAROAD? <u>X&X/No</u>; If No, what is missing? <u>NOx data characterized as "spotty" in draft SIP</u>. Used in SIP analysis but not entered in SAROAD.
 - Accepted by EPA? Yes/Mo; if Yes, date _____11/28/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

POLLUTANTS	SARGAD #	SITE LD	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	DISTANCE FROM CC (km)	DISTANCE FROM RD (m)	TRAFFI ADT
PIOC/NOx	410300018F05	Ladd Observatory	Providence/ Providence	1S		center city/	1981		æ	1	
Ozone	410300012F01	Rockfeller Library	Providence/ Providence	RI	KAKS	center city/ residential	79-81	2.5	cc	10	4000
Ozone	410140002F03	W. Alton Jones Compus	Kent County	RI	SLAMS	rural/ unqualified	79-81	3.1			
Ozone	410300011F01	Health Department State St. Trailer	Providence/ Providence	21		center city/ commercial	1979		ce		
Ozone	221880002F01	Fore River Bridge	Quincy	PM.	:	rurel/ near urban	79-80	,	58		
Ozone	220535001F01	Post Office 300 Main Street	North Easton	MA.	NAR.	rural/ commercial	80-61	4.3	36	80	8000
Ozone	221210001F01	Medfield State Hospital	Medfield	M	SLAVE	rurel/ comercial	79-81	2.3	41		
Ozone	222196001F01	Mater Row Rd - Greet Meedows Nat. Wildlife	Sudbury	NA.		rurel/ agriculturel	1980	4,3	59		
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DTHER:	

Wind	deta	co 1	lected	41 .	Alten Jen	es Campus,	RI Health	Lab., Dyn	r Street	monitoring	site, and	Green Airpor	t (MIS)	
Wind	deta	fra	Alta	n Jo	mes Campus	, and Green	A1rport						esed	for modeling.
24- 1		-	4.0.		49-101 c	limtologi	cal and Mo	messle or	Souton (On thems 407	data luke	m avatlablal		

Non-attainment area	Providence, RI
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0.159

0.135

0.132

0.150

0.127

30

12

0

27

MODELING

0	Mode [*]	ling	Status
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Model us	ed:Cit	y-Specific EKM	A ————————————————————————————————————		
- Preli	minary Modeling	Completed? Yes	s/M&; if Yes,	date 3/	82
- Revie	wed by: RO(s) _	Yes	OAQPS	No	
- Final	Modeling Compl	eted? Yes/Mö;	if Yes, date	Unknown	
- Revie	wed by: RO(s) _	Yes	OAQPS	Yes	
o Key Modeli	ng Information	(Final Modeling	g Only)		
- Model	ing Days Select	ed? <u>Yes/M&</u> ; if	Yes, date	Unknown	
Site-Days Modeled	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm	Concen	O ₃ tration pm)	Calculated % HC Control
Quincy, MA #	221880002F01				
7/14/79	4.5*	0.103	0.1	38	16

0.091

0.110

0.113

0.072(or 0.094?) 0.119

4.5*

4.5*

4.5*

4.5*

4.5*

North Easton, MA #220535001F01

Medfield, MA #221210001F01

8/05/80

7/15/80

7/25/79

7/17/80

7/16/80

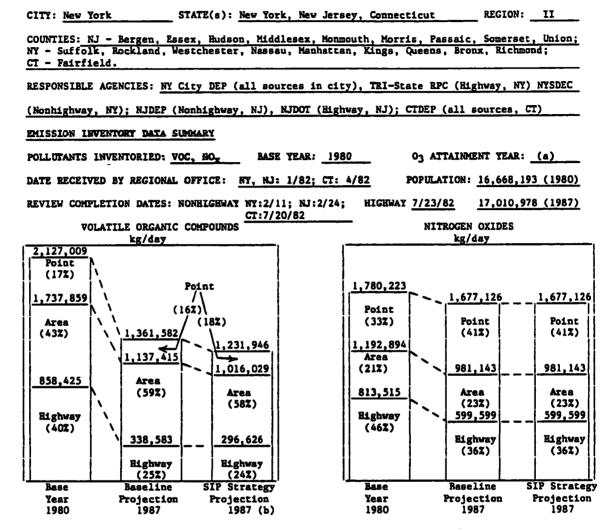
o % HC Control Needed To Attain 03 NAAQS 12**

Remarks: **Fourth highest control value selected from all the six site-days modeled.

^{*}Value used for all modeling days.

2.2 Region II

New York, NY/NJ/CT



TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base Year		Baseline P	rojection	SIP Pro	jection	Total 7 Change(c)		
Pollutants	voc	NO _x	AOC	NO _x	AOC	NO _x	AOC	NO _x	
Point Sources Nonhighway Area Highway	21.5 54.6 51.5	35.3 22.8 48.8	13.2 47.0 19.9	40.9 22.4 35.2	12.7 42.3 17.4	40.9 22.4 35.2	-40 -21 -65	+18 - 1 -26	
TOTAL	127.6	106.8	80.1	98.5	72.4	98.5	-42	- 5	

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 119 NO_X 112

COMMENTS: (a) Attainment not demonstrated by 1987. (b) 1987 SIP strategy inventory estimated for Fairfield Co, CT. Controls included in SIPs are RACT I, II, I/M, TCM's and for NJ and CT RACT on additional VOC sources above and below 100 TPY cutoff. SIP strategy inventory does not include extraordinary control measures for NJ. (c) Calculated percent change is for total emissions, not emissions per capita.

o Air Quality Data Base - Status

-	Base Years:	1979, 1980 & 1981	
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- Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/No
- Are all data entered in SAROAD? <u>XX6X/No</u>. If No, what is missing? Sandy Hook is not in SAROAD; NJ has delayed sending 1981 data from SLAMS (Dumont)
- Accepted by EPA? Yes/MM, if Yes, date ____*
- o Site Descriptions (for sites used in SIP analysis.)

	ity, MY/MJ/Ct	}			SITE		AVAILABLE	18089	DISTANCE	DISTANCE	
POLLUTANTS	SARQAD #	SITE ID	CITY/COUNTY	STATE	TYPE	STATION TYPE	DATA	HT. (m)	FROM CC (km)	FROM RD.	ADT
16400	334680084 A05	Steinway P.O. Astoria Queens	New York City/ Queens Co	RY			80	3	<10		
MOC	334680085 A05	Prospect Park Brooklys	New York City/ Kings Co	NY			80	3	<10		
HOx	334680070 F01	Moolsey P.O. Astorie Queens	KYC/Qu cens	MA	SLAVS	city center residential	80	6	410	30	8000
260.x	334680076 FC1	PS 121 Brooklyn	MYC/Kings Co	NY	SLAMS	city center/ residential	80	12	e10	46	10,00
MMOC/MOx	312580002 A05 312580002 J05	Linden	Linden/Union Co.	m		suburben/ industrial	80	5	25		
NHOC/WOx	313500002 F01	New Brunswick	flew Brunswick/ Middlesex Co	N	SLAVS	suburben/ residential	80	4	45		
NFOC/NOx	310180003 F01	Bayonne	Bayonne/ Hudson Co	2	KANS	city center/ residential	80	5	410	420	20,000
MOC	313480004 A05	MJ Institute of Technology	Hemark/ Essex Co	2		city center/ residential	80	21	15		
NOz	313480008 F01	Henerk	Nemark/Essex Co	NJ .		city center/ commercial	80	4	15]
Ozone	070190123 F01	Certy	Derby/ New Maven Co	ct	SLAPS	city center/ commercial	78-80	5	90		
Ozone	070420123 F01	Hertford	Nertford/ Nertford Co	ព	SLAVS		78-80		150		
Ozone	070330004 F01	Greenwich Bruce Golf Course	Greenwich/ Fairfield Co	CT	SLANG	rural/neer urban	79-81	2	45	ŀ	
Ozone	070220003 FQ1	East Hertford	E. Hertford/ Hertford Co	ព	NAMS	suburban/ residential	81	5	150	50	2000
Qzone	070700123 FO1	New Haven	New Haven/ New Haven, Co	α	W/S	city central/ residential	79-81	4	105	12	9900
Ozone	070478001F01	Horris Dee	Litchfield Co	CT	SLAVE	resote	78-80	2	120	1	l
Ozone	070570007 FO1	Middletown	Middletom/ Middletex Co	ព	IVMS	rural/ unqual(fied	80-61	18	145	225	50,000
Ozone	671110007 F01	Stretford Point	Bridgeport/ Fairfield Co	ព	MAIS	suburben/ residential	20-81	30	90	75	500
Ozone	330289002 F01	Babylon	Babylon/ Suffolk Co	NY	SLAKS	suburban/ industrial	78-81	5	60	30	1900
Ozone	NOT IN SARGAD	Sandy Hook	Middlesex Co	NJ.	SLAVIS	1	78-81		30	f	1
Ozone	3111 2000 1 F01	Dampet	Dumnat/ Bergen Co	NJ	SLAME	Suburban/ residential	80	5	25		
ļ			,								1

OTHER:

wind data collected at _agency sites and at local airports

Mind data from Newerk, Philadelphia and Hartford MMS Offices

_ used for modeling.

Mixing height data from Fort Totten, NT (NYC) MuS Soundings

used for modeling

^{*}Since EPA Region II was closely involved in verifying data used for modeling it did not plan to formally advise States on data acceptance.

MODELING

o Model	ing S	tatus
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Model used	:City-	Specific EKMA		
- Prelimi	nary Modeling C	ompleted? Yes/	98 ; if Yes, date <u>7/</u>	15/81 report date
- Reviewe	d by: RO(s)	Yes	OAQPS Yes	
			Yes, date 3/15/82	
			OAQPS Yes	
	Information (F			
	·	•		WD.
- modelin	g Days Selected	! <u>fes/No;</u> 11 10	es, dateunkno	WII
Site-Days Modeled		Transported 03 Concen- tration(ppm)	Concentration	Calculated % HC Control
Stratford Poin	t, CT #0711100	07F01		
7/20/80	9.6**	0.122	0.272	***
7/21/80* 6/24/80*	9.6** 9.6**	0.125 0.102	0.303 0.253	64 60
Middletown, CT	#070570007F01			
7/21/80	9.6**	0.125	0.262	***
7/16/80*	9.6** 9.6**	0.100 0.102	0.262 0.234	63 58
New Haven, CT		0.102	0.20	••
7/21/80	9.6**	0.125	0.235	***
7/20/80	9.6** 9.6**	0.122 0.100	0.226 0.291	*** ***
7/16/80 7/22/80*	9.6**	0.100	0.227	60
o % HC Control	- Needed To Atta	in O3 NAAQS	60****	

o Remarks: *These site/days were modeled using the City-Specific EKMA Appendix B procedures which account for precursor transport. **Mean median of daily 6-9 a.m. ratios for six sites in 1980 excluding weekend days. ***Not modeled with Appendix B, but preliminary screening indicated that these days would yield higher % control value(s), for each particular site, if Appendix B were used. ****New Jersey has accepted the 60% VOC control value. New York has rejected the 60% value on grounds that the Stratford Point site is unrepresentative. New York has selected a 58% control value. The Region contends that the site is representative and that 60% is the appropriate value.

2.3 Region III

Allentown, PA
Baltimore, MD
Pittsburgh, PA
Philadelphia, PA/NJ/DE
Washington, DC

Pennsylvania			ia Department ortation - Rip		ental Res	ources - No	nhighway	
EMISSION INVE	NTORY DAT	A SUMMARY						
POLLUTANTS IN	VENTORI ED	: VOC, NO.	BASE YEAR	t: <u>1980</u>	03 AT	TAINMENT YE	AR:1	987
DATE RECEIVED	BY REGIO	NAL OFFICE:	7/82		POPU	LATION: 497	,500 (198	0) (a
REVIEW COMPLE	TION DATE	S: NONHIGH	WAY 10/6/82	HIGHWAY 11	/1/82	<u>516</u>	,800 (198	7) (a
VOLA	TILE ORGA kg/da	NIC COMPOUN	DS	,	Ŋ	ITROGEN OXI kg/day	DES	
				184,0	002	173,632		3,632
					int (52)	Point (80%)		oint 80%)
59,491 43,852 24,126 Highway (41Z)	Highwa	2 4 (442) 2 1 y 4 (272) > H1	0,462 ghway	Higi (2:	1W89 2Z)	36,488 30,273 Highway (172)	H	66,488 10,273 ghway 172)
Base Year 1980	Baseli Project 1987	ion Pro	Strategy jection 1987 (b)	Bar Yes 198	ar .	Baseline Projection 1987	Proj	
entory	_	OTAL AQCR E	MISSIONS NORMA Baseline I		-			Chang
utants	VOC	NO _x	AOC	NO _x	VOC	NO _x	VOC	NO
nt Sources Lighway Area Nway	31.4 39.7 48.5	277.2 11.5 81.1	21.1 32.6 20.2	277.0 12.0 58.6	21.1 32.6 20.2	277.0 12.0 58.6	-30 -14 -57	+ + -2
VL	119.6	369.8	73.9	347.6	73.9	347.6	-36	
per of Facilit	ies Great	er than 250	kg/day (100 1	TPY): VOC _	14	NO _x 13		
						Population		

- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/Mcx
 - Are all data entered in SAROAD? Yes/ANX. If No, what is missing? _____
 - Accepted by EPA? Yes/MWX; if Yes, date _______11/23/82______
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

Al lentown	, PA										
POLLUTANTS	SAROAD 1	SITE ID	CITY/COUNTY	STATE	SITE TYPE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	FROM CC	FROM RD.	TRAFFIC ADT
Ozone/ HMOC/NOx	390120003F01	James & Femulak Sts.	Allentown/ Levelgh	PA	NANS	suburban/ residential	79-81	S		18	50
Ozone/ UDC/ROA	390780017F01	East Market & Wood Sts.	Bethlehem/ Northemton	PA	NW6	suburban/ industrial	79-81	4		50	5000
Ozone	292720100F01	Coal & Milton Sts.	Easton/ Northempton	PA	NARS	suburban/ residential	80-81	4		10	50
Qzone	394620001F05	Kutztown State College Grim Science Bldg.	Kutstown/ Berks	PA		rurel/ unqualified	80-81				
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OTHER:		
Wind data collected at	Allentown	
Vind data from	Allentova MrS	used for modeling
Mixing height data from	Albany, MY & Washington (Dulles Airport), DC	used for mode)ino

MODELING

0	Mode?	ing	Status
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Model used:	City-Specific EKM	1				
- Preliminary	Modeling Completed?	Yes/No; if Yes, date	unknown			
- Reviewed by:	RO(s)	OAQPS				
- Final Model	ing Completed? Yes/	区; if Yes, date	5/25/82			
- Reviewed by	RO(s) <u>Yes</u>	OAQPS Yes				
o Key Modeling Info	ormation (Final Mode	ling Only)				
- Modeling Day	s Selected? <u>Yes/۱۳۵۲;</u>	if Yes, date	5/25/82			
Site-Days NMOO Modeled Rat	Transpor C/NO _X 03 Conce io(s) tration(rted Peak Og en- Concentrati ppm) (ppm)	on Calculated			
Allentown, PA #39	0120003F01					
6/01/79 7. 5/09/79 7. 6/15/79 7. 9/04/80 7. 6/19/80 7.	0.087 0.068	0.173 0.172 0.145	20.0			
6/08/79 7. 8/27/80 7.	0.104		9.8 0			
Bethlehem, PA #39						
6/01/79 7. 6/19/80 7. 5/11/79 7. 6/15/79 7. 7/15/80 7. 5/31/80 7. 9/04/80 7.	0 0.087 0 0.132 0 0.087 0 0.121 0 0.068	0.152 0.148	53.8 32.2 30.0 27.5 26.2 25.5 21.4			
Easton, PA #39272	0100F01					
9/04/80 7. 9/13/80 7. 9/20/80 7. 8/25/80 7.	0.089 0.057	0.153 0.149 0.126 0.126	21.7 19.7 6.5 0			
- continued on next page -						
o % HC Control Need	ded To Attain O ₃ NA/	AQS27.5				
o Remarks:						

Kultztown, PA	#394620001F05			
6/30/81	7.0	0.077	0.147	24.1
7/10/80	7.0	0.090	0.143	24.1
9/09/80	7.0	0.044	0.148	22.5
7/24/81	7.0	0.062	0.144	21.7
7/26/80	7.0	0.080	0.137	20.7
8/29/80	7.0	0.039	0.146	16.7
7/19/80	7.0	0.080	0.137	14.0

COUNTIES: Anne Arundel, Baltimore, Carroll, Harford, and Howard	
RESPONSIBLE AGENCIES: Maryland Air Management Administration - Point	
Baltimore Regional Planning Council - Highway	
EMISSION INVENTORY DATA SUMMARY	
POLLUTANTS INVENTORIED: EVOC, NO. BASE YEAR: 1980 O3 ATTAINMENT YEAR:	1987
DATE RECEIVED BY REGIONAL OFFICE: 12/81 POPULATION: 2,174,023	(1980)
REVIEW COMPLETION DATES: NONHIGHWAY 2/23/82 EIGHWAY 7/23/82 2,254,000	(1987)(a)
VOLATILE ORGANIC COMPOUNDS kg/day NITROGEN OXIDES kg/day	
318,839	$-\frac{311,247}{}$
Point (39Z) Point (47Z) Point (57Z)	Point (57%)
194,057 177,764 160,000 165,437 (13x) 135,900 (40x) Point (37x) 124,400 134,231 (13x) 134,231 (13x) 134,231 (13x) 134,231 (13x) 134,231 (13x) 134,231 (13x) 134,231 (13x) 134,231 (13x) 134,231 (13x)	134,231
Highway \(\frac{107,792}{\text{Area}} \) \(\frac{104,000}{\text{Area}} \) \(\frac{104,000}{	Area 94,400 Highway (30%)
Base Baseline SIP Strategy Base Baseline	SIP Strategy
Year Projection Projection Year Projection 1980 1987 1987 (b) 1980 1987	Projection 1987

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base Year		Baseline Projection		SIP Pr	ojection	Total % Change (c)		
Pollutants	AOC	NO _x	AOC	NO _x	VOC	NO _x	VOC	NO.	
Point Sources Nonhighway Area Highway	57.5 26.8 62.6	66.5 18.9 57.3	31.1 26.3 21.6	78.6 17.7 42.0	27.5 26.2 20.0	78.6 17.7 42.0	-68 + 1 -67	+23 - 3 -24	
TOTAL	146.9	142.7	79.0	138.3	73.7	138.3	-48	- 0	

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 37 NO_X 24 (d)

COMMENTS: (a) 1987 population estimated by interpolation of 1985 and 1990 figures. (b) Emission goal with a 9,000 kg/day VOC reduction necessary to be achieved with additional RACT.

Controls in SIP include RACT I, II, I/M, TCM's, and RACT on all 100 TPY sources (including RACT III). (c) Calculated percent change for total emissions, not normalized emissions per capita.

(d) Number of major NO_X facilities not included. Number of NO_X sources from NECRMP study data.

ttainment area	Baltimore,	MD
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- o Air Quality Data Base Status
 - Base Years: __1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/NX
 - Are all data entered in SAROAD? Yes/NXX. If No, what is missing?
 - Accepted by EPA? Yes/NXX; if Yes, date 3/30/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Baltimore, MD

					CITE		AVAILABLE	PROBE	DISTANCE	DISTANCE	TRAFFIC
POLLUTANTS	SAROAD #	SITE ID	CITY/COUNTY	STATE	SITE TYPE	STATION TYPE	DATA	HT. (m)	FROM CC	FROM RD.	ADT
Ozone/ NMOC	210080019G05	FT. Heade	Anne Arundel Co.	MD	SLAMS	suburban/ commercial	80~81	5			
Ozone	211360002G01	Elementary School Jenkins Road	Riviera Beach/ Anne Arundel	MD		suburban/ commercial	80-61				
Ozone/ NMOC/NOx	210680001601	Woodward & Dorsey Rds.	Essex/ Baltimore	MD	NAMS	suburban/ comercial	79-81	•		190	30000
Ozone	210500007GD1	Greenside Drive	Cockeysville/ Baltimore	MD		suburban/ residential	80-81				
Ozone	210140010G01	Gunpowder Military Reservation	Baltimore Co.	HD		remote	80-81				
Ozone	210920080J05	3213 Copenhaver Rd & MD 2	Bel Air/ Harford	MD		rutote	80				
Ozone	210650001F01	Edgewood Army Center	Edgewood/ Harford	MD		suburban/ residential	80-81	•		10	100
HMOC/NOx	210120004H01	200 Read St	Baltimore/ Baltimore	MD		center city/ commercial	79-81	3		0	
NMOC/MOx	210120018F01	Calvertt & 22nd St.	Baltimore/ Baltimore	HD		center city/ commercial	79-81				
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ER.	
Wind data collected at	
Wind data from	used for modeling.
Mixing height data from	used for modeling

48.0 46.2

0.167 0.183

MODELING

Model us	sed: City-Sp	ecific EKMA		
- Prel	iminary Modeling	Completed? Yes/N	&; if Yes, date	ınknown
			OAQPS No	
	_		Yes, date7/	′01/82
			OAQPS Yes (8/0	
		(Final Modeling O		
-	•	•	es, date7/01/82	2
		Transported	Peak 0 ₃	
Site-Days Modeled	NMOC/NO _X Ratio(s)	03 Concen- tration(ppm)	Concentration (ppm)	Calculated % HC Control
Ft. Meade, M	D #210080019G05			
8/05/80 7/17/80	8.26* 8.26*	0.042 0.049	0.176 0.183	53.0 49.3
Riviera Beac	h, MD #211360002	:GO1		
8/04/80	8.26*	0.056	0.198	49.0
Essex, MD #2	10680001G01			
7/19/80 8/26/80	8.26* 8.26*	0.055 0.043	0.171 0.167	46.5 31 9

Cockeysville, MD #210500007G01

8.26* 8.26*

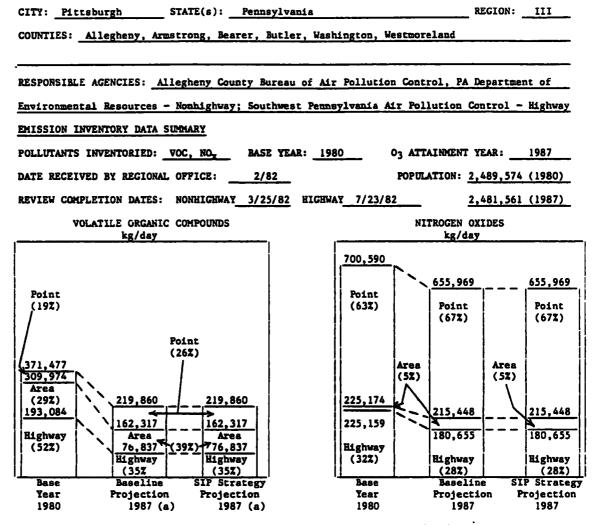
8/07/80 8/11/80

0	% HC Control Needed To Attain 03 NAAQS	49
0	Remarks:*median ratio	

0.062 0.038

⁻ continued on next page -

Edgewood, MD	#210650001F01				
7/31/80	8.26*	0.070	0.162	49.3	
Baltimore Co.	., MD #210140010	G01			
8/05/80	8.26*	0.042	0.195	56.0	
8/27/80	8.26*	0.072	0.177	46.6	
Bel Air, MD	[‡] 210920080J05				
7/21/80	8.26*	0.050	0.179	44.9	



TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base Year		Baseline Projection		SIP Pro	jection	Total % Change(b)		
Pollutants	AOC	NO.	VOC	NO _x	VOC	NO.	VOC	NO _x	
Point Sources Nonhighway Area Bighway	28.3 43.3 77.6	177.3 13.7 90.4	23.2 34.4 31.0	177.5 14.0 72.8	23.2 34.4 31.0	177.5 14.0 72.8	-21	0 + 2 -20	
TOTAL	149.2	281.4	88.6	264.3	88.6	264.3	-41	- 6	

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 54 NO_x 48

COMMENTS: (a) Includes I/M credits. Controls in SIP include RACT I, II (except Perchloroethylene

Dry Cleaners) and I/M. (b) Calculated percent change is for total emissions, not normalized

emissions per capita.

Mon-attainment a	rea	Pittsburgh,	PΑ
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o Air Quality Data Base - Status

-	Base Y	ears:	1979,	1980	&	1981			

- Have all data been edited by ROs and verified by State/local Agency(ies)?
 Yes/AYOK
- Are all data entered in SAROAD? Yes/No. If No. what is missing?
- Accepted by EPA? Yes/M&; if Yes, date 11/23/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

ttsburgh					SITE		AVAILABLE	PROBE	DISTANCE	DISTANCE	TRAFF
LLUTANTS	SARDAD #	SITE ID	CITY/COUNTY	STATE	TYPE	STATION TYPE	DATA	HI (m)	FROM CC	FROM RD.	AD1
one	390940001601	Brackenridge Water Works	Brackenridge/ Allegheny	PA	NAR	tuburban/ residential	80-81	5		153	1000
one/NOx	396520101F01	Logans Ferry Road	New Kensington/ Westmoreland	PA		ļ	6 1		İ		
ne/XOx	397260008GD1	301 39th Street Bldg. #7	Lawrenceville/ Alleghamy	PA	IW6	center city/ commercial	79-81	14		76	4000
The	390100088601	Municiple Bldg. 12245 Frankstown Road	Penn Hills/ Alleghany	PA	NARS	suburban/ commercial	79-81	15		30	1500
C/MOx	390100081305	Civic Center Auditorium	Pittsburgh/ Alleghany	PA		suburban/ residential	80	21			
ı	390100067J05	William C. Boyce Park	Alleghany	PA		suburban/ residential	80	4			
c	390440004F01	US 65 & Holmet Ave.	Auden/ Beaver	PA		center city/ industrial	79-81	4			
C/40x	390580014F01	Eight St & River Alley	Seaver Falls/ Seaver	PA		center city/ residential	79-81	4			
C/NOx	397260026105	Township High School South Feyette	Pittsburgh/ Allegnany	PA		suburban/ residential	80	4			
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OTHER		
Wind data collected at	Greater Pittsburgh International Airport	
Wind data from	Greater Pittsburgh International Airport	used for modeling
Misino height gata fro	Greater Pittsburgh International Airmort	

0	Mo	del	ing	Sta	tus
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Model us	ed:	City-Specific	EKMA		
- Preli	minary Modeling	Completed? You	es/Na; if Yes,	date8/8	31
- Revie	wed by: RO(s) _	Yes	OAQPS	No	
- Final	Modeling Compl	eted? Yes/Na;	if Yes, date	unknown	
- Revie	wed by: RO(s) _	Yes	OAQPS	Yes (8/17,	/82)
-	ng Information	•		6/25/82	
Site-Days Modeled	NMOC/NO _x	Transporte 03 Concen- tration(pp	d Peak Concen		Calculated % HC Control
New Kensingt	ton, PA #396526	0101F01			
7/18/81 5/23/81	7.0* 7.0*	0.042 0.075	0.1 0.1		24.2 11.3

7/14/80	7.0*	0.077	0.154	37.0
7/18/81	7.0*	0.042	0.142	28.2
7/12/81	7.0*	0.069	0.132	13.2
Penn Hills, PA	#390100088G01			
7/04/80	7.0*	0.106	0.177	51.3
7/14/80	7.0*	0.077	0.174	47.0
6/26/80	7.0 *	0.083	0.153	42.0
6/30/81	7.0*	0.078	0.141	28.4
8/27/81	7.0*	0.055	0.129	17.0

0.077

0.130

5.4

7.0*

7/26/80

Brackenridge, PA #390940001G01

0	% HC Cont	trol Needed	l To Attain	03	NAAQS		36	.7				
0	Remarks:	*NMOC/NOx	ratio used	for	modeling	is	from	1980	summer	study	in	<u>Pittsbur</u>
		 _										

⁻ continued on next page -

Lawrenceville, PA #397260008G01

6/26/80	7.0*	0.083	0.174	55.2
7/21/79	7.0*	0.075	0.170	41.2
9/01/79	7.0*	0.091	0.167	41.1
7/20/79	7.0*	0.035	0.155	36.7
6/22/80	7.0*	0.064	0.146	33.3
8/26/80	7.0*	0.085	0.150	30.4
7/19/79	7.0*	0.031	0.147	29.8
9/03/79	7.0*	0.095	0.162	29.4
7/04/80	7.0*	0.106	0.148	27.6
7/18/81	7.0*	0.042	0.140	25.0

CITY: Philadelphia STATE(s): Pennsylvania/New Jersey/Delaware REGION: III

COUNTIES: PA - Bucks, Chester, Delaware, Montgomery, Philadelphia; DE - New Castle;

NJ - Burlington, Camden, Gloucester, Mercer, Salem.

RESPONSIBLE AGENCIES: WIMAPCAO, NJDOT, DVRPC - Highway; Pennsylvania DER, New Jersey DEP,

Delaware DNREC and Philadelphia AMS - Nonhighway

EMISSION INVENTORY DATA SUMMARY

POLLUTANTS INVENTORIED: VOC, NO, BASE YEAR: 1980 O3 ATTAINMENT YEAR: (a)

DATE RECEIVED BY REGIONAL OFFICE: NJ, DE: 1/82; PA 3/82 POPULATION: 5,615,240 (1980)

REVIEW COMPLETION DATES: NONHIGHWAY NJ, DE: 2/23; PA:7/6 HIGHWAY 7/23/82 5,670,676 (1987)

VOLATILE ORGANIC COMPOUNDS (b)
kg/day

882,750
Point

535,368 Point

(352)

341,889

Area

(43Z)

113,351

Highway

(21%)

Baseline

Projection

1987

521,261

Point

(372)

323,967

Area

(43Z)

104,171

Highway (20%) SIP Strategy

Projection

1987 (c,d)

(382)

545,997

(30X)

284,274

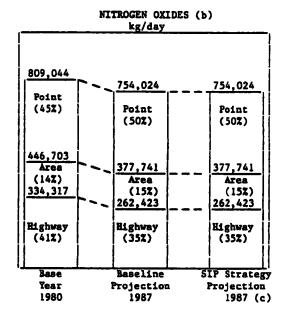
Highway

(322)

Base

Year

1980



TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline	Projection	SIP Pr	ojection	Total Z	Change (e)
Pollutents	voc	NO _x	VOC	NO _x	VOC	NO _X	voc	NO _x
Point Sources Nonhighway Area Bighway	60.0 46.6 50.6	64.5 20.0 . 59.5	34.1 40.3 20.0	66.4 20.3 46.3	33.2 38.8 18.4	66.4 20.3 46.3	-43 -13 -60	+ 4 + 3 -22
TOTAL	157.2	144.0	94.0	133.0	90.4	133.0	-39	- 7

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 110 NO_X 49 (f)

COMMENTS: (a) '87 attainment not demonstrated. (b) Point/area breakdown assumed for DE. (c) No change between baseline and SIP strategy PA 1987 emissions. (d) Controls include RACT I, II

(except for Perch. Dry Cleaners in PA), I/M, TCM's (NJ only) and RACT on all sources including sources below 100 TPY (NJ only). (e) Calculated percent change for total emissions, not emissions per capita. (f) Number in Phil. Co. not submitted. NECEMP study data used.

Wilmington, DE

0	Air	Quality	Data	Base	-	Status
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-	Base Years:	1979,	1980 &	1981	
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- Have all data been edited by ROs and verified by State/local Agency(ies)? Yes MXX
- Are all data entered in SAROAD? Yes/Mo. If No, what is missing? _____
- Accepted by EPA? Yes/Nox; if Yes, date 4/05/82
- o Site Descriptions (for sites used in SIP analysis.)

Mon-Attainment Area Philadelphia, PA

Philadelp	NIA, PA	·					AVAILABLE	PROBE	DESTANCE	DISTANCE	TRAFFIC
POLLUTANTS	SAROAU #	SITE LD	CETY/COUNTY	STATE	SITE	STATION TYPE	DATA	HI (m)	FROM CC (km)	FROM RD.	ADT
MADC/MOT	37140029 KD1	20th & Race St.	Philadelphia/ Philadelphia	M		suburban/ aobile	79-81	15.2	20		
MOC/MO:	397140026 HOT	Broad & Spruce Sts.	Philadelphia/ Philadelphia	PÀ		center city/ commercial	79-81	4	1*		
IMOC/HOx	397140004 HO1	1501 E. Lyconing Ave. AVS Labs.	Philadelphia/ Philadelphia	PA		suburban/ resident(4)	79-81	5.2	. **		
Q297e	391080012 F01	Rockview Dr	Bristol/Bucks	PA		suburban/ residential	79-81	2.1	36*		
Ozone	310720003 F01	Copencod & Davis St.	Canden/Canden	n.J.	INIS	suburben/ residential	79-81	3.7	7*	150	3000
Ozone	314780003 F01	Cape May City	Cape Hay	M.J.		sure!/ unque!!fied	79-81	3.7	40-		İ
Gzone	391620002 F01	Frant & Morris Sts.	Chester/ Delesere	PA.		suburban/ industrial	79-61	2.1	27*		
Ozone	312750001 F01	M. Boling Blvd. å E. Cestle Rd.	NeGuire/ Burlington	M.J.	NUTS	suburban/ residential	79-81	4.6	18*	21	3000
Ozone	397140024 HOT	A.E. Airport	Philadelphia/ Philadelphia	M.	AMS	suburban/ comercjal	79-81	(4)	25*	60	1000
Dzone	396540013 F01	State Armory 1045 felwir Rd.	Norristoun/ Montgomery	PA I		suburban/ residential	79-81	3.7	27*		
Grone	397140014 #01	Rosy Kater Pump Sta. EVA-Deemley Sts.	Philadelphia/ Philadelphia	PA	'	suburban/ residential	79-81	4	3*	1	
Otone	315060001 F01	86-89 West Hain St.	Somerville/ Somerville	N.J.		center city/ commercial	79-81	4.9	30+	Ì	
Ozone) 315400002 F01	16 fant State St.	Trentod/ Nercer	n.J.		comercial	79-81	4.6	26*		
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OTHER		
Mind data collected at	Philadelphia AVS Allegheny & N.E. Airpo	rt
Wind data from		used for modeling.
Mising beight data from	Radiosonde Date, New York & Dalles	used for modeling.

[&]quot;Estimated distance from center city of Philadelphia

0	Mode1	ing	Status
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Model use	ed: City-Spec	ific EKMA		
- Prelim	ninary Modeling	Completed? Yes/	$\frac{46}{6}$; if Yes, date $\frac{12}{6}$	80
- Review	ved by: RO(s)	No	OAQPS No	
- Final	Modeling Comple	ted? Yes/A&; if	Yes, date 2/22/82	
- Review	ved by: RO(s) Yes	3/26/82	OAQPS Yes	
Key Modelir	ng Information (Final Modeling (Dnly)	
•		<u>-</u>	es, date <u>4/05/82</u>	
Site-Days Modeled Bristol #39	NMOC/NO _X <u>Ratio(s)</u> 1080012 F01	Transported 03 Concentration(ppm)	Peak O ₃ Concentration (ppm)	Calculated % HC Control
8/27/80 6/05/79 6/15/80	6.9* 6.9* 6.9*	0.060 0.042* 0.040	0.176 0.193 0.183	49 39 20
Camden #310	720003 F01			
8/07/80 8/26/80	6.9* 6.9*	0.059 0.020	0.164 0.166	43 37
Cape May #3	10780003 F01			
6/30/81 7/12/81	6.9* 10.8	0.042* 0.052	0.200 0.150	45 40
Chester #39	1620002 F01			
7/13/79 6/07/79 8/25/80	6.9* 6.9* 5.8	0.105 0.043 0.042*	0.183 0.170 0.194	54 38 35
McGuire #31	2750001 F01			
7/16/80 8/02/80 7/21/80	7.7 6.9* 6.9*	0.040 0.050 0.090	0.218 0.173 0.228	47 43 42
- continue	d on next page	-		
% HC Contro	ol Needed To Att	tain 0 ₃ NAAQS	44	
Remarks: _	<u> </u>			
				

N.E. Airport #3	97140024 H01			
8/07/80 7/13/79 6/15/81 8/05/80 6/29/80	6.9* 6.9* 6.9* 6.9 6.9*	0.059 0.105 0.030 0.040 0.030	0.180 0.160 0.180 0.180 0.170	52 50 48 39 29
Norristown #39	6540013 F01			
8/01/81 7/13/79 6 <u>/</u> 28/80	7.8 6.9* 6.9*	0.042* 0.105 0.042*	0.221 0.183 0.176	54 54 38
Roxborough #39	7140014 H01			
7/13/79 7/20/79 6/24/80 7/19/79	6.9* 6.9* 8.2 6.9*	0.105 0.070 0.050 0.032	0.200 0.170 0.160 0.170	59 53 39 37
Somerville #315	060001 F01			
7/09/79	12.0	0.083	0.163	58
Trenton #31540	0002 F01			
6/23/80 6/15/81 8/04/80 6/24/80 7/21/80	6.9* 6.9* 6.9* 8.2 6.9*	0.040 0.030 0.040 0.050 0.090	0.164 0.206 0.189 0.171 0.194	58 55 45 44 42

^{*} Signifies default values- basis for default values not provided.

CITY: Washington STATE(s): District of Columbia/Virginia/Maryland REGION: III COUNTIES: District of Columbia; MD - Montgomery, Prince Georges; VA - Arlington, Fairfax, Loudoun, Prince William RESPONSIBLE AGENCIES: Washington Council of Governments (Lead Agency, All Sources) Virginia Air Pollution Control Department; Maryland Bureau of Air Quality EMISSION INVENTORY DATA SUMMARY POLLUTANTS INVENTORIED: EC, NO. BASE YEAR: 1980 03 ATTAINMENT YEAR: 1987 DATE RECEIVED BY REGIONAL OFFICE: POPULATION: 2,988,171 (1980) 6/30/82 REVIEW COMPLETION DATES: NONHIGHWAY 7/27/82 HIGHWAY 11/1/82 3,256,000 (1987) (a) VOLATILE ORGANIC COMPOUNDS NITROGEN OXIDES tons/day tons/day 367 337 337 338 Point Point 327 (3%) Point (35%) Point Point (5%) (39%) (39%) Area (312)239 Area 224 224 (9Z) 205 205 205 213 Area Area $167 \leftarrow (112)$ 167 Area Righway (50%) (43Z) Area (662)Bighway 101 94 (562)Bighway Highway (50%) (50%) alighway Highway (452)(512) Base Baseline SIP Strategy Base Baseline SIP Strategy

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Year

1980

Projection

1987

Projection

1987 (b)

Projection

1987 (b)

Projection

1987

Year

1980

Inventory	Base Year		Baseline Projection		SIP Projection		Total % Change (c)	
Pollutants	VOC	NO _x	VOC	NO _x	AOC	NO.	VOC	NO _x
Point Sources Nonbighway Area Highway	3.0 31.6 68.2	38.9 10.3 62.4	3.1 31.3 28.2	36.9 10.6 46.6	2.8 22.3 26.3	36.9 22.3 46.6	- 9 23 55	+ 3 +12 -19
TOTAL	102.8	111.6	62.6	94.1	51.4	94.1	-46	-16

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 21 NO_X 16 (d)

COMMENTS: (a) Population derived from 1980 census data and COG 1987 household projections.

(b) SIP strategy inventory estimated by OAQPS. Three different control strategies presently proposed. Controls in SIP include RACT I, II, I/M, TCM's, RACT on less than 100 TPY sources.

(c) Calculated percent change is for total emissions, not normalized emissions per capita.

(d) Number of major facilities from NECRMP data. Major VOC/NO_X source list not submitted.

- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/No
 - Are all data entered in SAROAD? Yes/No. If No, what is missing?
 - Accepted by EPA? Yes/No; if Yes, date 3/22/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Washington, DC/MD/YA

NCE TRAFFI RD ADT	DISTANCE FROM RD (m)	DISTANCE FROM CC (Lm)	PROBE HT (m)	AVAILABLE DATA	STATION TYPE	SITE	STATE	CITY/COUNTY	SITE 1D	SAROAD #	POLLUTANTS
	147	3	11	80-81	center city/ residential	NAMS	D.C.	Meshington	Takoma School Piney Branch Rd. & Dehlia St. H W.	090020025101	Ozone/HOx
			11	80-81	center city/ commercial		D.C.	Washington	West End Library 24 & L Sts., MM	090020017101	#MOC/NOx
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Wind data collected at			_
uind data from	mand	for	sode ling.
Mixing meight data from Dulles Airport			modeling.

0	Mode	ling	Status
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	Model used:	City-Spe	ecific EKMA	· · · · · · · · · · · · · · · · · · ·			
	- Preliminar	y Modeling	Completed?	Yes/Nox; if Yes,	date	9/81	
	- Reviewed by	y: RO(s) _	No	OAQPS	No		
	- Final Mode	ling Compl	eted? Yes/M	<u>X</u> ; if Yes, date		4/07/82	
	- Reviewed by	y: RO(s) _	Yes	OAQPS	Yes	· 	
0	Key Modeling In	formation	(Final Model	ing Only)			
	- Modeling Da	ays Select	ed? <u>Yes/MX</u> ;	if Yes, date		3/22/82	

Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 03 Concentration (ppm)	Calculated % HC Control
W ⁻ shington,	DC #09002002510	l (Takoma)		
7/17/80 7/16/80 8/07/80 8/29/80 7/21/80	8.0* 8.0* 8.0* 8.0* 8.0*	0.06 0.06 0.06 0.06 0.06	0.20 0.16 0.18 0.14 0.14	55 48 46 32 30

0	% HC Control Needed To Attain 03 NAAQ	S46
0	Remarks: Other sites used in prelimin	nary modeling, but only the Takoma site

was considered in final modeling.

*median ratio

2.4 Region IV

Louisville, KY/IN Nashville, TN

CITY: Louisville STATE(s): Kentucky/Indiana							
COUNTIES: Kentucky - Jefferson; Indiana - Clark, and Floyd							
Indiana State Board of Hea	lth - Point S	ources					
Wench (Kilow) - migumah A	EUTCIER						
R: <u>1980</u> 0 ₃ ATTAINM	ent year:i	987					
POPULATION:	834,837 (1980)					
7/02/00							
HIGHWAY //23/82	886,972	1987) (a)					
		263,619					
/ /1							
		Point (66%)					
Point							
(59%)							
		į,					
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Area		i					
(14%)	4						
100,248	(14Z)	1					
65,417	,410	88,410					
Highway 51	.911	51,911					
(27%)	(20%)	Į.					
[]	gnway	Highway					
							
Base Base Year Proje		Strategy					
	Indiana State Board of Hea Agency (KIPDA) - Highway V. R: 1980	Indiana State Board of Health - Point S Agency (KIFDA) - Highway Vehicles R: 1980					

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline 1	rojection	SIP Pro	jection	Total I	Change(d)
Pollutants	VOC	NO _x	VOC	NO _x	VOC	NOx	VOC	NO.
Point Sources Nonhighway Area Highway(e)	78.8 66.9 56.4	172.7 41.7 78.4	63.2 59.3 18.7	197.6 41.2 58.5	51.0 59.3 18.7	197.6 41.2 58.5	- 6	+ 22 + · 5 + 21
TOTAL	202.1	292.8	141.2	297.3	129.0	297.3	- 32	+ 7

Number of Facilities Greater than 250 kg/day (100 TPY): VOC (f) NO_X (f)

COMMENTS: (a) 1987 population interpolated from KIPDA data. (b) 1987 baseline emissions graph includes controls for Kentucky which should be reflected in the 1987 SIP strategy projection only.

(c) Controls included in SIP for RACT I, II, I/M, TCMs and RACT on all major VOC sources. (d) Calculated percent change is for total emissions not emissions per capita. (e) Nonhighway mobile sources included in Kentucky highway emissions. (f) No listing for Kentucky major sources.

Non-attainment	area	Louisville,	KY/IN

o Air Quality Data Base - Status

_	Base	Years:	1979,	1980 &	1981	
_						

- Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/ND
- Are all data entered in SAROAD? Yes/NHOX If No, what is missing? Some 1981 NMOC & NOx data from modeled sites.
- Accepted by EPA? Yes/NKX; if Yes, date _____unknown
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

POLLUTANTS	(11e, KY/TH SARDAD /	SITE ID	CETY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE	FROM CC	PROM RD	TRAFFIC ADT
HHDC/MO.	182380035P01	Broadway Hedical Sidg.	Louisville/	KT .	MARS	center city/	Jun-Sept	13	(km) center city	80	26000
1		914 East Broadway	Jefferson Jefferson/	IN	SLAMS	industriel center city/	1981 Jun-Sept		6 #		
HHOC/HO _K		Seagrams Property 211 East Court Library	Clark	KT .	MAR	comercial suburban/	1981 79-81	8	3 16	120	8000
Ozone	182380021601	MLKY TV Office Bldg. 1918 Mellsmod Ave.	Loutsville/ Jefferson			residential	79-81				
grave	181920027603	Bates School 7601 Bardstown Rd.	Louisville/ Jefferson	KY		neer urben			20 ME	200	5000
Gzone	150640003F01	Army Ammo Plant - Gata 5 Highway 62	Charlestown/ Clark	\$9I	IME	suburben/ industrial	80-81	5	20 4	200	30.3
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<u>on</u>	<u>n·</u>			
	Wind data collected atRoby Elem. School - #183710000; Seagrams Property - #152160002; MrS airport sites			_
	Mind data from INS airport sizes: Downtown site	used.	for model 120	,
	Missing height data from _HVS_site in Osyton, Ohio	_ used	for modeling	,

36.9 32.7 32.5

31.2

24.2

MODELING

Charlestown, IN #150640003F01

7/02/80

7/16/80

6/18/81 8/26/80

8/13/80

7.2* 7.2*

7.2*

7.2*

7.2*

Model used	: City-Spe	cific EKMA		
- Prelimi	nary Modeling (completed? Yes/	NOX; if Yes, date	unknown
- Reviewe	d by: RO(s)	Yes	_ OAQPSNo	
- Final Mo	odeling Complet	ed? <u>Yes/Mo</u> % if	Yes, date6/30/82	!
			OAQPS Yes	
Key Modeling	Information (F	inal Modeling	Only)	
- Modelin	g Days Selected	!? <u>Yes/₩6</u> % if Y	es, date <u>12/23/81</u>	. <u>.</u>
Site-Days Modeled	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 03 Concentration (ppm)	Calculated % HC Control
Louisville, KY	#182380021G01			
7/30/80	7.2* 7.2* 7.2* 7.2* 7.2*	0.061 0.052 0.011 0.042 0.043	0.169 0.190 0.175 0.158 0.158	32.1 29.7 27.2 24.8 19.1
Louisville, KY	#181920027G03			
	7.2* 7.2* 7.2*	0.043 0.043 0.031	0.186 0.152 0.151	32.9 21.5 15.5

0.18

0.18

0.162

0.178

0.158

0.043

0.043

0.043

0.043

0.043

0	% HC Control Needed To Attain 03 NAAQS _	32.5
0	Remarks:	

^{*}Mean median value - for high ozone days in 1981, also applied to "meteorologically equivalent days" in 1979-1980.

CITY: Nashville ST	ATE(s): Tennessee		REG	ION: IV
COUNTIES: Nashville, David	son			
RESPONSIBLE AGENCIES: Metr	opolitan Health Depart	ment of Nashvill	e and Davidson	County -
Nonhighway sources; Nashvil	le/Davidson County Met	ropolitan Planni	ng Commission	- Highway
EMISSION INVENTORY DATA SUM	MARY			
POLLUTANTS INVENTORIED: RVO	C, NO. BASE YEAR:	<u>1980</u> 0 ₃	attainment yea	R: <u>1982</u>
DATE RECEIVED BY REGIONAL O	PFICE: 3/82	POPU	LATION: 495,	000 (1980)
REVIEW COMPLETION DATES: N	ONHIGHWAY 2/12/82 HI	GHWAY 7/23/82		300 (1982)
VOLATILE ORGANIC C	ompounds .		NITROGEN OXID kg/day	DES
109,080 Point (34%) 71,530 Area (34%) 69,195 Point 56,019 (2 Area (52%) Righway (32%) Righway (28%)	69,195 Point 0X) > 56,019 Area (52X) - 25,293 Highway (28X)	Point (8Z) 57,829 53,155 Area 41,413 (20 Righway (72Z)	55,837 51,123 Area 39,024	Point (8%)
Base Baseline Year Projection 1980 1982	SIP Strategy Projection 1982 (b)	Base Year 1980	Baseline Projection 1982	SIP Strategy Projection 1982

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base	Year	Baseline H	Baseline Projection SIP Projection Total 7 Cha		Change(c)		
Pollutants	VOC	NO _x	VOC	NO _x	VOC	NO.	VOC	NO _x
Point Sources Nonhighway Area Highway	75.9 74.2 70.3	9.4 23.7 83.7	25.9 60.4 49.8	9.3 23.8 76.8	25.9 60.4 49.8	9.3 23.8 76.8	-65 - 8 -27	+ 1 + 3 - 6
TOTAL	222.4	116.8	136.1	109.9	136.1	109.9	-37	- 3

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 29 NO_X (d)

COMMENTS: (a) 1982 population back calculated from consumer/commercial solvent emissions. (b) Con-

trols include RACT I, II only. (c) Calculated percent change is for total emissions, not emissions

per capita. (d) Listing not included for sources emitting >250kg/day of NOz.

Non-attainment area Na	shville, TN
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- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/NX
 - Are all data entered in SAROAD? XEE/No. If No, what is missing? All 1981

 NMOC & NOx data from modeled sites.
 - Accepted by EPA? Yes/NX; if Yes, date 11/02/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

Mashville	. 18					,			INTERNA	ATFVALLE	
OLLUTANTS	SARDAD #	SITE ID	CLTY/COUNTY	STATE	SITE TYPE	STATION TYPE	DATA	PROBE HT. (m)	FROM CC	DISTANCE FROM RD.	TRAFFI
NPOC/NOx	442540010901	Lentz Health Center 311 23rd Ave, N	Hashville/ Davidson	TN	INE	conter city/ comercial	80-61	9	ct	38	10000
IDIOC/NOx	442540032901	Tennessee State : University	Nashville/ Davidson	TH		i	80-61		cc		
Ozone	443320007F01	Hendersonville Rockland Recreation Area	Hendersonville/ Sutner	TR	INVIS	rural/ industrial	79-81	4	19	52	1000
Ozone	442540011601	East Health Center Trinity Lene	Hashville/ Davidson	18	IMS	center city residential	79-61	13	Œ	45	1000
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OTHER:			
Wind data collected at _	Spring H111 - #442300016; Mashwille - #442540011 & #442540022; Summer Co	6443320007	
Wind data fromFour_	altes within the Mashville area	used for	epdel (ng
Mixing beight data from	MMS site at Mashville, TM	used for	model ing

0	Modeling	Status
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	Model used:	City-Sp	pecific EKMA			 	
	- Preliminary	Modeling Co	mpleted? Ye	s/No; if Yes	, date	1/82	
	- Reviewed by	: RO(s)	Yes	OAQPS	No		
	- Final Model	ing Complete	d? <u>Yes/NX;</u>	if Yes, date		2/82	
	- Reviewed by	: RO(s)	Yes	OAQPS	Yes		
0	Key Modeling Inf	ormation (Fi	nal Modelin	g Only)			
	- Modeling Da	ys Selected?	Yes/Nox; if	Yes, date _	by 12/23	/81	

Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 0 ₃ Concentration (ppm)	Calculated % HC Control
Hendersonvil	le, TN #4433200	107F01		
9/11/81 8/10/80 8/01/80 9/12/81 7/25/80	4.733* 4.733* 4.733* 4.733* 4.733*	0.004 0.043 0.013 0.006 0.035	0.156 0.132 0.130 0.127 0.127	21.7 18.4 10.8 9.2 8.3
Nashville, T	N #442540011G01			
8/10/80 8/01/80 7/02/80 7/25/80	4.733* 4.733* 4.733* 4.733*	0.043 0.013 0.015 0.035	0.130 0.130 0.130 0.130	14.0 13.3 12.5 8.7

0	$\%$ HC Control Needed To Attain 0_3 NAAQS	9.2
	Remarks:	
		<u> </u>

^{*}Mean median value - for high ozone days in 1981, also applied to "meteorologically equivalent days" in 1979-1980.

2.5 Region V

Chicago, IL Cincinnati, OH Cleveland, OH Detroit, MI Milwaukee, WI

CITT: Chicago STATE(8): IIIInois,	Indiana REGION: V
COUNTIES: IL - Cook, Dupage, Kane, Lake, McHen	ry and Will; IN - Lake and Porter
RESPONSIBLE AGENCIES: Northeast Illinois Plan	ning Commission (GCA) - Area Sources
Illinois Environmental Protection Agency - Poi	nt Sources
EMISSION INVENTORY DATA SUMMARY	
POLLUTANTS INVENTORIED: VOC, NO. BASE YEAR	R:198003 ATTAINMENT YEAR:(a)
DATE RECEIVED BY REGIONAL OFFICE: 2/13/82	POPULATION: 7,745,109 (1980)
REVIEW COMPLETION DATES: NONHIGHWAY 4/14/82	HIGHWAY 7/23/82 7,969,163 (1987)
VOLATILE ORGANIC COMPOUNDS kg/day	NITROGEN OXIDES kg/day
	1,730,231
Point	
1	Point 1,450,525 1,450,525
1,307,144 (25%)	(59%)
Point	
(22%)	
1,016,331	(602)
909,419 830,038	
Area	Area
(442) 682,369 619,813	714,409 586,815 586,815
	520,371 Area Area
439,911 Area Area	← (132) →
(52%) (53%)	Highway 397,049 397,049
Highway	(30%) Eighway Eighway
Highway Highway	(272)
(23%) (25%)	
Base Baseline SIP Strategy	Base Baseline SIP Strategy
Year Projection Projection 1980 1987 1987 (b)	Year Projection Projection 1980 1987 1987
2707 (0)	1707

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base Year		Baseline	Projection	SIP Projection		Total 1 Change(c)	
Pollutants	AOC	NO _x	VOC	NO _x	VOC	NO _x	VOC	NO _X
Point Sources	37.6	131.2	28.5	108.4	22.8	108.4	-37	-15
Nonhighway Area	74.4	25.1	59.2	23.8	55.0	23.8	-24	- 2
Highway	56.8	67.2	26.4	49.8	26.4	49.8	-52	-24
TOTAL	168.8	223.5	114.1	182.0	104.2	182.0	-36	-16

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 174 (d) NO_X 67 (e)

COMMENTS: (a) Attainment not demonstrated for SE Wisconsin. (b) SIP strategy inventory includes adopted and contingency measures for IL (i.e. RACT I, II TCM's, I/M and RACT on all 100+ TPY sources of VOC including RACT III). (c) Calculated percent change for total emissions, not normalized emissions per capita. (d) Does not include Lake Co., IN major facilities. (e) Major facilities in IL portion of ACQR only.

Non-attainment a	rea Chic	ago, IL/IN
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0	Air	Qua ₁	ity	Data	Base	-	Status
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_	Base	Years:	1979,	1980	&	1981	

- Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/XV6
- Are all data entered in SAROAD? Yes/Nb. If No, what is missing?
- Accepted by EPA? Yes/XXS; if Yes, date unknown
- o Site Descriptions (for sites used in SIP analysis.)

Mon-Attainment Area Chicago, IL/IM

POLLUTANTS	SAROAD #	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT (m)	PROM CC	DISTANCE FROM RD.	TRAFFIC ADT
Ozone	511540002F01	7944 Sheridan Road	Kenosha/ Kenosha	A1		center city/ residential	79-81				
Ozone	512880017F01	1521 Mashington Ave.	Recine/ Recine	MI	IW6	center city/ commercial	79-8≀	11		14	15140
Ozone	148020002F01	Golf & Jackson Streets	Waukegan/ Lake	ĬL.	IWIS	suburban/ industrial	79-81	11		27	8000
Ozone	141760001F01	Woodland Park Elem, Sch. 1321 Wilnot Street	Deerfield/ Lake	IL	NAME	suburben/ residential	79-81	7		300	999
NON/HHIDE	141220039F01	Huron & Fairbanks Ct.	Chicago/ Cook	IL.		center city/ commercial	79-81	3			
MOX/MMOC	141220044601	Museum of Science & Indus. 57th & Museum	Chicage/ Cook	IL.		suburben/ residential	79-81				
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wind data collected at		
Wind data from		used for moteling
Mixing beignt data from Pr	toria, it 65	used for machine

0	Mod	e1	ing	Sta	tus
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Model us	ed: City-Spec	cific EKMA		
- Preli	minary Modeling	Completed? Yes AN	☆; if Yes, date3	/01/82
		No		
			Yes, date6	3/30/82
- Kevie	wed by: KU(S)	in process	OAQPS In proces	<u> </u>
o Key Modeli	ng Information (Final Modeling O	nly)	
- Model	ing Nave Selecte	d? Vec XIVX: if Ve	s, date6/30/8	12
TIOGCT	ing bays selecte	163/10, 11 16		<u>'</u>
		Transported	Peak O ₃	
	NMOC/NO _X	03 Concen-	Concentration	Calculated
<u>Modeled</u>	<u>Ratio(s)</u>	<u>tration(ppm)</u>	(ppm)	% HC Control
Racine, WI	#512880017F01			
7/21/79	6&16*	0.087	0.201	
8/01/81	6&16*	0.066	0.200	
7/18/81		0.068	0.181	
7/10/79	6&16*	0.080	0.174	
8/26/80	6&16*	0.070	0.170	% Control
7/27/79	6&16*	0.070	0.166	Values
Kenosha, WI	#511540002F01			for Individual
7/21/79	6&16*	0.087	0.258	Days
7/10/79		0.080	0.209	Not Provided
8/01/81	6&16*	0.066	0.198	in SIP

6&16*

6&16*

6&16*

7/11/79

7/27/79

8/29/80

o % HC Control Needed to Attain 03 NAAQS 20 - 41 based on WI 03 data**

0.070

0.070

0.070

0.177

0.167

0.163 -

o Remarks: *Due to the limited HC data, range of ratios from 6:1 and 16:1 used for all modeling days to calculate range of HC control. **Lower range based on IL data also presented in draft SIP. All these estimates are tentative.

Use of ranges and other aspects of modeling analysis have not been approved by EPA.

⁻ continued on next page -

Deerfield, IL	. #141760001F01		
7/21/79	6&16*	0.087	0.162
7/17/81	6&16*	0.068	0.161
9/05/79	6&16*	0.057	0.143
7/07/81	6&16*	0.077	0.142
8/29/80	6&16*	0.070	0.139
Waukegan, IL	#148020002F01		
7/21/79	6&16*	0.087	0.186
8/01/81	6&16*	0.066	0.172
7/10/79	6&16*	0.080	0.158
8/29/80	6&16*	0.070	0.153
8/26/80	6&16*	0.070	0.139

CITY: C	incinnati	STATE(s): Ohio/	Kentucky	REGIO	N: <u>v</u>
COUNTIES	: OH - Butler, (lermont, Hamilton,	Warren; KY - Boone,	Campbell, Kenton.	
		and an Til (Bootsta	invironmental Service	a) - A-a Obje/ya	- Sucker/
ESPONS1			Government - Highway;		
			de Environmental Pro		
	Air Pollution C				
MISSION	INVENTORY DATA	SIDMARY			
					
OLLUTAN	TS INVENTORIED:	NMHC, NO BASE	YEAR: 1980 0	3 ATTAINMENT YEAR:	1982
A 470 DDC		L OFFICE: 1/82	D 0	IDITE ATTON: 1 425	997 (1990)
AIE REC	EIVED BY REGIONA	L OFFICE:		PULATION: 1,625,	697 (1960)
EVIEW C	OMPLETION DATES:	NONHIGHWAY 6/15/	32 HIGHWAY 7/23/82	1,638,	630 (1982)(
					
	VOLATILE ORGANI			NITROGEN OXIDES kg/day	
	kg/day		1	347,895	347,895
		l	336,697	 	- ا
303,716	<u>. </u>				
				7-4-5	
Point (31%)	248,750	248,750	Point (50%)	Point (54%)	Point (54%)
(314)	Point	Point	!! ' ' 1	Area	1
208,713	(27%)	(27%)	ii i	(10Z)	į
				1 1,00,000	1,00
Area (28%)	181,630 Area		167,195	186,979	<u> 186,979</u>
(204)	(30%)	(30%)	1 107,193	Area - (10)	Z) Area
123,104		1 1 1	132,637	124,333	124,333
	- 105,964	105,964			
Highway	Highway	Highway		Highway	Highway
(412)	(43Z)	(43Z)	(40Z)	(36%)	(36%)
,					
] [] [[]		
Base	Baseline	SIP Strategy	Base	Baseline	SIP Strate
Year	Projection		Year	Projection	Projection
	1982	1982 (Ъ)	1980	1982	1987

Inventory	Bas	e Year	Baseline	Projection	SIP Pro	jection	Total X	Change(c)
Pollutants	AOC	NO _x	VOC	NO _x	voc	NO _x	VOC	NO.
Point Sources Nonhighway Area Highway	58.4 52.7 75.7	104.2 21.3 81.6	41.0 46.2 64.7	114.1 21.7 76.5	41.0 46.2 64.7	114.1 21.7 76.5	-29 -12 -14	+10 + 3 - 5
TOTAL	186.7	207.1	151.9	212.3	151.9	212.3	-18	+ 3

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 54 NO_x 35 (d)

COMMENTS: (a) Interpolated from 1980 and 1987 population. (b) Controls include RACT I and II

only. (c) Calculated percent change for total emissions, not emissions per capita. (d) OH only.

No listing of major NO sources in KY.

Non-attainment	area	Cincinnati,	OH/KY

- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/No
 - Are all data entered in SAROAD? XXX/No. If No, what is missing? All NMOC data.
 - Accepted by EPA? Yes/NE; if Yes, date 12/09/82
- o Site Descriptions (for sites used in SIP analysis.)

Mon-Attainment Area

CARCARIANTS	SAROAD 1	SITE ED	CITY/COUNTY	STATE	SITE TYPE	STATION TYPE	AVAILABLE DATA	PROBE NT (m)	DISTANCE FROM CCI (Am)	DISTANCE FROM RD	TRAFFI
Ozone	362720010G02	6950 Ripple Road	Colerain/ Hamilton	ан		rurel/ industrial	79-81				
D1000	361220019601	1675 Gest Street	Cincinnati/ Hamilton	он	KAPS	center city/ industrial	79-81	5		91	5551
Dzone	353400002GD1	Southeast State County	Lebinon/ Herren	0н		suburban/ residential	79-81				
Ozone	180280003F03	Jet. KY 338 & KY 536	East Bend/ Boome	KY		rurs]/ unqustified	79-81	•			
OZONO NAIOC\NO=\	361220020601	Drake Hospital Hest Galbraith Rd.	Cincinnati/ Hamilton	OH		suburban/ residential	79-81	5			
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	Wind data collected at			
	Yind data from	used	for model	ling.
	Mixing height lata from	usad	for mose	1100.

o Modeling	Status
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o modeling Stat	cus			
Model used:	:City-S	pecific EKMA		
- Prelimin	nary Modeling	Completed? Yes/	<u>ነሄሪ;</u> if Yes, date	2/15/82
- Reviewed	by: RO(s) _	No	OAQPS No	
- Final Mo	deling Compl	eted? Yes/XX; if	Yes, date	9/23/82
- Reviewed	d by: RO(s) _	Yes	OAQPS <u>Yes</u>	
o Key Modeling	Information	(Final Modeling	Only)	
- Modeling	g Days Select	ed? <u>Yes/XX;</u> if Y	es, date	9/22/82
Site-Days Modeled	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm)		Calculated % HC Control
Warren Co., OH	#363400002G	601		
6/15/79 7/20/80 6/13/80 6/19/80 7/16/80	3.9* 3.9* 3.9* 3.9* 3.9*	0.054 0.068 0.072 0.075 0.073	0.138 0.145 0.147 0.137 0.135	18.0 16.6 14.7 14.3 11.4
Cincinnati, OH	#3612200196	601		
6/18/80 6/26/80 6/19/80 6/28/79 7/25/80	3.9* 3.9* 3.9* 3.9* 3.9*	0.081 0.068 0.075 0.038 0.070	0.150 0.150 0.135 0.132 0.132	19 14 11 8 6
Colerain, OH	#36272001 0 G02	2		
7/16/80 7/20/79	3.9* 3.9* 3.9* 3.9*	0.073 0.073 0.050 0.070 0.055	0.172 0.137 0.135 0.137 0.132	21.6 10 9 7 3
*Mean median r	atio			
- continued	on next page	-		
			14 2	
		• · -	14.3	
o Remarks:				

Boone Co., KY #180280003F03

6/18/80	3.9*	0.081	0.165	26.3
6/19/80	3.9*	0.075	0.145	20.0
6/15/80	3.9*	0.044	0.160	18.5
6/14/80	3.9*	0.069	0.135	13
7/13/79	3.9*	0.040	0.130	7

CITY: Cleveland STATE(s): Ohio	 	REGION: V
COUNTIES: Cuyahoga, Lake, Lorain, Medin	a	
RESPONSIBLE AGENCIES: Northeast Ohio Ar	eawide Coordinating Agency	- area and highway; Ohio
Environmental Protection Agency - point.		
EMISSION INVENTORY DATA SUMMARY		
POLLUTANTS INVENTORIED: RVOC, NO. BA	SE YEAR: 1980 03 A	TTAINMENT YEAR: 1982
DATE RECEIVED BY REGIONAL OFFICE:	2 POPUL	ATION: 2,191,600 (1980)
REVIEW COMPLETION DATES: NONHIGHWAY 3/1	0/82 HIGHWAY 7/23/82	2,268,000 (1982)(a)
		
VOLATILE ORGANIC COMPOUNDS kg/day		NITROGEN OXIDES kg/day
	463,725	459,920 459,920
421,037		
Point Point (15%) (13%)	Point (39%)	Point Point
356,392		(412)
322,524		
Area 281,152 281,152	281,406	
(40%) Area Area	Area (25%)	268,465 268,465 Area
188,481 (39%) (39%)		(25%) (25%)
155,463 155,463	166,332	. 154,564
	`H H I	
Highway	Highway (36Z)	Highway Highway (34Z)
Base Baseline SIP Strateg		Baseline SIP Strategy
Year Projection Projection 1980 1982 1982 (b		Projection Projection 1982 1982

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base	Year	Baseline B	rojection	SIP Pro	jection	Total 2	Change (c)
Pollutants	VOC	NO _x	AOC	NO.	VOC	NO _x	VOC	NO.
Point Sources Nonhighway Area Righway	29.5 76.6 86.0	83.2 52.5 75.9	18.7 55.4 68.5	84.4 50.2 68.1	18.7 55.4 68.5	84.4 50.2 68.1	-34 -25 -18	+ 5 - 1 - 7
TOTAL	192.1	211.6	142.2	202.8	142.2	202.8	-23	- 1

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 44 NO_x 21

COMMENTS: (a) Calculated using growth factors in OH SIP. (b) Controls include RACT I and II only. (c) Calculated percent change is for total emissions, not normalized emissions per capita.

Non-attainment area	Cleveland,	OH
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o Air Quality Data Base - Status

ase '	: 1979, 1980 & 1
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- Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/NYo
- Are all data entered in SAROAD? <u>XEX/No</u>. If No, what is missing? <u>All NMOC data collected by Battelle</u>.
- Accepted by EPA? Yes/No; if Yes, date ______12/09/82
- c Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

LLUTANTS	SARDAD #	SITE 19	CITY/COUNTY	STATE	SITE	STATION TYPE	AYATLABLE DATA	PROBE HT. (m)	FROM CC	DISTANCE FROM RD.	TRAFF
OC*/MOx	361 3000 33401	East 22 nd Street & boodland Ave	Cleveland/ Cuyahoga	ОН	NAR	center city/ commercial	81	5	Ì	15	6000
OC•/NOx	361300003401	East 152 St.	Cleveland/ Cuyahoga	OH .	Ī	center city/ commercial	81		ł		
one	365320002G02	71 East High Street	Painesville/ Lake	ОН	KWES	center city/ commercial	79-81	14	10	27	11800
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Wind data collected atGreater Cleveland Airport	_
Wind data from Greater Cleveland Airport	used for modeling.
Mixing height data from <u>Dayton, Ohio (NuS)</u>	
CONTRACTOR CONTRACTOR CONTRACTOR	used for modeling.

0	Modeling	Status
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Model used:		City-Specific EKM	IA	
- Prelimin	ary Modeling	Completed? Yes/	MM; if Yes, date	unknown
- Reviewed	by: RO(s)_	unknown	_ OAQPSNo	
- Final Mo	deling Compl	eted? <u>Yes/No</u> ; if	Yes, date6/09	9/82
- Reviewed	by: RO(s)_	Yes (7/03/82)	OAQPS Yes (7/03	3/82)
o Key Modeling	Information	(Final Modeling	Only)	
- Modeling	Days Select	ed? Yes/NoX; if Y	es, date6/09	9/82
	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 0 ₃ Concentration (ppm)	Calculated % HC Control

Painesville,	OH #3653200020	602		
7/14/80 8/20/81 9/12/79	5.78* 5.78* 5.78*	0.058 0.088 0.069	0.152 0.128 0.121	20.5 8.0 0

o % HC Control Needed To Attain O₃ NAAQS _____8.0**

o Remarks: *Based on HC species data collected in summer 1981 by Battelle. **Used 2nd high value in 3 years, suggested by Region V, due to monitoring uncertainies/deficiencies. Control value based on 1980 emissions. State projected attainment in 1982 based on estimated emission reductions.

CITY: Det	troit	STATE(s):	Michigan			REGION:	V
COUNTIES:	Wayne, Caklan	d, Macomb					
			· · · · · · · · · · · · · · · · · · ·				
RESPONSIBL	E AGENCIES:	Michigan De	partment of N	latural Resources	 -		
							
MISSION I	NVENTORY DATA	SUMMARY					
POLLUTANTS	INVENTORIED:	VOC, NO.	BASE YEAR:	1980 03	ATTAINMENT	YEAR: 198	7
ATE RECEI	VED BY REGIONA	L OFFICE:	7/82	POP	ULATION:	4,043,633	(1980)
SEVIEW COM	PLETION DATES:	nonhichwa	Y <u>9/16/82</u> HI	GHWAY 11/1/82		3,883,800	(1987)(
V	DLATILE ORGANI	C COMPOUNDS			NITROGEN		
701,767	kg/day		 ,	677,145	kg/d	BY	
, 02, 101 N			Ì	1011111	_		
Point \			ļ	Point	620,14	1_	
(29%)	\		!	(432)]	<u> </u>	
494,666	\		}	- 11 1	9-4-	. 1	
-54,000	\				Poin (51%		
Area `	428,482		i	il i	(3.7	´	
(27%)	Point		1	- }}	1	1	
	(32%)		Į	377,008		ļ	
305,981	1 201 055		ľ		rea	_	
P.	291,955		l l	296,202	13x) <u>295,68</u>	Area	
Highway	. Area		i		203,60		
(44%)	(42%)		j	Highway	1-00,00		
			İ	(42%)	Hi ghw	sy	
į	1113,694		Ì		(33%)	1	
	Highway (26%)					-	
1	(202)		ł			1	
Base	Baseline	SIP St	rategy	Base	Baselin	e SIP	Strateg
Year	Projection			Year	Projecti		jection
1980	1987 (ъ		37 (c.đ)		1987		1987 (c

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline	Projection	SIP Pro	jection	Total %	Change(e)
Pollutants	VOC	NO _x	AOC	NO _x	VOC	NO _x	AOC	NO _x
Point Sources Nonhighway Area Righway	51.2 46.7 75.6	71.9 24.8 70.8	35.2 45.9 29.3	81.1 26.1 52.4	(c)	,	
TOTAL	173.5	167.5	110.4	159.6				

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 55 NO_X (f)

COMMENTS: (a) No '87 population in SIP. Calculated from 1980 census data using SMCOG growth
factors. (b) No credit taken for I/M on TCM's in baseline projection inventory. (c) No strategy
inventory summary tables. Data could not be readily derived from SIP. (d) Controls in SIP
include RACT I, II, all 100+ TPY VOC sources, and TCM's. (e) Calculated percent change for total

emissions. (f) No major facilities list submitted. Number of VOC sources provided by Region V.

Non-attainment	area	Detroit, MI	
MON-G CCG I INNENC	4.64	DC 01 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)?
 Yes/AVEX
 - Are all data entered in SAROAD? XXXX. If No, what is missing? <u>Some 1981</u> 2nd, 3rd & 4th quarter 03 data and all NMOC & NOx data from modeled <u>sites</u>.
 - Accepted by EPA? Yes/Nox if Yes, date 11/29/82
- o Site Descriptions (for sites used in SIP analysis.)

Mon-Attainment Area

CLLUTANTS	SARDAD /	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE NT. (=)	FROM CC (km)	DISTANCE FROM RD.	ADT
9ancs0	231 18001 9G01	11600 East Seven Hile Rd.	Detroit/	ME		suburban/ residential	79-61				
Ozone	234340003F01	16th & Electric Ave.	Port Huran/ St. Clair	ME		suburban/ residential	79-81				
Dzone	233140009902	67700 Gratick	New Haven/ Necomb	MI		suburban/ commercial	80-61				
zone	239963902303	GM-Lake Orion (not in SARGAD)		MI			80				
MOC/NO:	231180100305	Science Center	Detroit/ Mayne	MI			81				
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OTHER-	
Wind data collected at _20 meteorological stations set un around the Brea.	
Hind deta fromahove sites	
Mixing height data fromFermi Finers Center	used for modeling

0	Mo	de i	i	ng	Sta	tus
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Model use	d: City-Spec	ific FKMA		
			nown	
			OAQPS	
			es, date 8/06/82	
- Review	red by: RO(s) _	. Yes	OAQPS Yes (8/31/	(82)
Key Modelir	ng Information	(Final Modeling Or	ıly)	
- Modeli	ing Days Select	ted? <u>Yes/₩</u> %; if Yes	, date 8/06/82	
Site-Days Modeled	NMOC/NO _X Ratio(s)	Transported 03 Concen- tration(ppm)	Peak O ₃ Concentration (ppm)	Calculated % HC Control
Detroit, MI #				
7/18/81	4.8*	0.060	0.158	29.8
/22/80	4.8*	0.091	0.139	24.3
//01/81	4.8*	0.040	0.154	22.7
7/10/80 7/07/81	4.8* 4.8*	0.060 0.057	0.133 0.128	21.3 17.7
, .		002J03 (not in SARC		
6/25/80	4.8*	0.057	0.152	29.6
7/20/80	4.8*	0.057	0.137	24.8
5/28/80	4.8*	0.057	0.129	16.9
8/29/80	4.8*	0.057	0.128	16.7
8/28/80	4.8*	0.008	0.142	8.4
Port Huron, N	1I #234340003l	F01		
6/12/80	4.8*	0.057	0.155	33.3
5/28/80	4.8*	0.050	0.145	26.3
6/29/81	4.8*	0.068	0.135	21.4 19.5
8/26/80 7/18/81	4.8* 4.8*	0.055 0.060	0.134 0.13Q	14.6
•	on next page	-		
*Mean media	, ,			
	• 			
n % HC Can+~	nl Needed To A	ttain No NAANS	27.1	
Remarks:				

New Haven, MI	#233140009G02

7/18/81	4.8*	0.060	0.180	39.5
7/19/80	4.8*	0.057	0.149	30.2
8/26/80	4.8*	0.077	0.151	27.1
8/25/80	4.8*	0.057	0.145	22.5
7/14/80	4.8*	0.075	0.131	19.7
7/11/81	4.8*		0.136	18.1
7/17/81	4.8*	0.047	0.129	16.2

CITY: Milwaukee STATE(s): Wisconsin	REGION:	<u> v</u>
COUNTIES: Kenosha, Racine, Walworth, Waukesha, Milwaukee, Washing	ton, Ozaukee	
RESPONSIBLE AGENCIES: Wisconsin Department of Natural Resources -	Point	
Southeastern Wisconsin Regional Planning Commission - Area		
EMISSION INVENTORY DATA SUMMARY		
POLLUTANTS INVENTURIED: VOC, NO. BASE YEAR: 1980 03 A	TTAINMENT YEAR: 19	987
DATE RECEIVED BY REGIONAL OFFICE: 7/82 POPUL	ATION: 1,764,919 ((1980)
REVIEW COMPLETION DATES: NONHIGHWAY 8/23/82 HIGHWAY 8/23/82	2,007,980	(1987)
VOLATILE ORGANIC COMPOUNDS kg/day	NITROGEN OXIDES kg/day	
336,379		
Point 312,373	. 301,021	301,021
(26%) Point	J)
(43%) (43%)	Point (51%)	Point (51%)
231,440 231,440	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,
Area		}
177,767 177,767 177,623		ļ
Area Area (16Z)	145,841	145,841
(63X) (63X) 127,057	Area	Area
100, 204	(18%)	(18Z) 92,298
Righway (41%)	Highway	lighway
(30x) 31,381 31,381	(312)	(312)
Highway Highway		ļ
Base Baseline SIP Strategy Base	Baseline SIP	Strategy
Year Projection Projection Year	Projection Proj	jection
1980 1987 (a) 1987 (b) 1980	1987	1987

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base Year		Baseline Projection		SIP Projection		Total % Change (c)	
Pollutants	VOC	NO _x	voc	NO.	VOC	NOx	VOC	NO.
Point Sources Nonhighway Area Highway	49.5 84.3 56.8	76.3 28.7 72.0	26.7 72.9 15.6	77.3 26.7 45.9	26.7 72.9 15.6	76.3 28.7 72.0	-39 - 2 -69	-15 + 6 -27
argu-ay								
TOTAL	190.6	177.0	115.2	149.9	115.2	177.0	-31	- 4

Number of Facilities Greater than 250 kg/day (100 TPY): VOC $\underline{51}$ NO $_{X}$ $\underline{19}$

COMMENTS: (a) Includes I/M credits (except Walworth County). (b) SIP includes no additional controls beyond RACT I, II. (c) Calculated percent change for total emissions, not per capita.

Non-attainment area Milwaukee	e, wi
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- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/No
 - Are all data entered in SAROAD? <u>XXX/No</u>; If No, what is missing? <u>NMOC</u> data from modeled sites.
 - Accepted by EPA? Yes/ND; if Yes, date _____unknown_____
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Hilmaukee, Wi

NI IMES											
OLLUTARTS	SAROAD #	SITE 10	CITY/COURTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	FROM CC (Lm)	OISYANCE FROM RD (m)	TRAFFI
POC°/NOx	512200045F01	3716 Mest Milweukee Ave.	Mi Iwaukee/ Mi Iwaukee	AI	WE	center city/ residential	81	9		9	1000
00°/N0x	512200041F01	2114 East Kermood St.	Al Juantas/ Al Juantas	AI	1445	center city/ residential	79-81	8		22	8000
OC-/110x	51 2200080F0 2	University of Wisconsin 606 West Kilbourne Ave.	Milwaukee/ Milwaukee	WI	IWE	center city/ commercial	81	11		30	6797
tone	512600005F01	Crafton High School 1950 Washington St.	Ozaukee Co.	WI	NAR.	suburben/ residential	79-81	9		61	857
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OTHER:		
Wind data collected at		
Wind data from		used for modeling.
Mixing height data from	Vausatosa, VI	used for modeling
MODE species data gathered i	by Mashington State University	

Non-attainment area	Milwaukee, WI	

o Modeling Status

Model us	ed:City	-Specific EKMA		
- Preli	minary Modeling	Completed?u	nknown	
- Revie	wed by: RO(s)		OAQPS	
			fes, date <u>7/01/82</u>	
K6716	wed_by: KU(S.)	n process	OAQPSIn proces	<u> </u>
o Key Modeli	ng Information	(Final Modeling Or	nly)	
- Model	ing Davs Select	ted? Yes/NXX: if Yes	s, date <u>7/01/82</u>	
				
Site-Days	NMOC/NO _x	Transported 03 Concen-	Peak 03 Concentration	Calculated
Modeled	Ratio(s)	tration(ppm)	(ppm)	% HC Control
Ozaukee Cour	nty, WI #51260	0005F01		
7/23/79	5.46**	0.103	0.206	59.3
8/01/81	5.46**	0.083	0.165	46.1
8/26/80	5.46**	0.068	0.177	41.3
7/07/81	6.4***	0.080	0.139	29.4
6/14/80	5.46**	0.084	0.140	28.6
Milwaukee, k	/I #512200041F	01		
8/01/81	5.46**	0.083	0.202	57.6
7/23/79	5.46**	0.103	0.189	55.7
7/07/81	6.4***	0.080	0.167	47.9
8/26/80	5.46**	0.068	0.172	40.9
8/09/79	5.46**	0.052	0.168	38.9
6/14/80	5.46**	0.084	0.138	26.9

- o % HC Control Needed To Attain 03 NAAQS 29.4 to 40.9*
- o Remarks: *Range due to uncertainy of which of two sites to use for control design value. Higher value site believed significantly impacted upon by Chicago but difficult to quantify. Lower value site primarily impacted by Milwaukee. Estimates tentative. Use of range and other aspects of modeling analysis have not been approved by EPA. **Arithmetic mean of ratios of measured values during seven 1981 high 03 (>0.10 ppm-1 hr max) days. ***Arithmetic mean of ratios of measured values for 7/07/81.

2.6 Region VI

Houston, TX

CITY: Houston STATE(s): Texas REGION: VI

		· · · · · · · · · · · · · · · · · · ·						
RESPONSIBLE A	AGENCIES:	Texas Air (Control Board	- Point and A	rea			
		Houston-Ga	lveston Area	Council - High	way			
EMISSION INV	ENTORY DAT	A SUMMARY						
POLLUTANTS II	VENTORIEI	:RVOC_,1	NO. BASE Y	AR: 1980	03 ATTAI	ment y	EAR: 19	87
DATE RECEIVED	BY REGIO	NAL OFFICE:	3/82		POPULATION	2,4	09,544 (1980)
REVIEW COMPLE	TION DATE	s: Nonhigh	AY 4/26/82	HIGHWAY 7/23	/82	2,9	00,704 (1987)
VOL.	TILE ORGA	NIC COMPOUND	os			JEN OXI	DES (a)	
231,250								
Point (60%)				203,00	0 200	<u>,000</u> T	2	0 <u>0,000</u>
	\			Point (?)		!	1	
97,724 Area 4(14 60,079	123,51 Frin (54Z Z) 56,64 Area (28Z	t Po (5	984 108	Area (7)	1	! !	- I 	
(26%)	21,64 Highw (182	0 ay Hig (1	29%) , 976 hway 6%)	Highwa (?)			, 	
Base Year 1980	Baseli: Project 1987	ion Proj	trategy ection 987 (c,d)	Base Year 1980	Proje	line ction 87	Proje	trateg ection 987
	TOT	AL AQCR EMIS	SIONS NORMAL	IZED BY POPULAT	TION (g/cap/	day)		
ntory	Bas	e Year	Baseline	Projection	SIP Proje	ction	Total Z	Change
utants	VOC	NO _x	VOC	NOx	VOC	NO _x	VOC	NO _x
t Sources ighway Area way	143.2 33.7 62.1	(a)	50.5 26.4 16.3	(a)	50.5 26.4 15.1	(a)	-52 + 7 -67(c)	(a)
L	239.0	209.8(a)	93.2	[150](a)	92.0	150](a)	-47	[0](4
				TPY): VOC 61	•	<u>(£)</u>		
				rovided. Proje				
				ludes the effec				
s. (c) I/M r	eduction	based on TAC	B estimates.	RO 6 estimate	s '87 highw	ay emis	sions as	
				note (b). (e)				

Non-attainment	area	Houston,	TX	

- o Air Quality Data Base Status
 - Base Years: 1978, 1979 & 1980 (State does not intend to analyze for the effect of 1981 air quality data on control strategy)
 - Have all data been edited by ROs and verified by State/local Agency(ies)?
 Yes/Nox
 - Are all data entered in SAROAD? XXX/No; If No, what is missing? Some data from modeled days.
 - Accepted by EPA? Yes/Na; However, proposed adjustments to data pending EPA approval.*
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Houston, TI

POLILITANTS		SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE		DISTANCE	DISTANCE FROM RD.	TAMFFIC
POLLUTARIS	30007	3416 10	6111700411	31416	TYPE	3111131 1111	DATA	HT. (m)	(km)	(m)	101
MOC/NOx	454715001 F01	Seabrook Int. School	Seabrook/ Harris	TX :		sub-comercial	78-81	3	40.Z		
NHOC/NOs.	455170002 FD1	2701 13th Ave. N	Texas City/ Galveston	TX		Sub-residentia)	78-79	5	48.3	36	500
NHOC/KOs.	450330009 F81	Georgia at Cunningham	Seeumont/ Jefferson	73		sub-residential	75-81	•	128.7		
Ozone	452330024 F61	4510 Aldine Mail Rd	Houston/ Herris	TΙ		sub-residential	78-80	4	16.1		
Ozone	452560034 F01	1262 Mag Dr.	Houston/	TX		sub-residential	78-81	,	В		
Ozone	452560035 HO1	9525 Clinton Dr	Harris Houston/ Herris	Ta		sub-Industrial	78-80	ו ו	3.2		
Ozone	452560037 HOZ)307 Crawford at Polk	Houston/ Herris	72		canter city/ commercial	78-80	4	Œ	13	10,000
Qzone	452560038 HOT	8314 Perkhurst	Houston/	π		sub-residential	78-80	3	25.7		
Qzone	452560047 1101	4401's Long 85	Herris Houston/	72		sub-commercial	78-80	4	11.3	13	100
Ozone	452560039 HO1	7834 Fuqua	Harris Houston/	TX		sub-residential	79-80	ו	24.1		
Ozone	452560051 MG)	13826 Croquet	Harris Houston/ Harris	711		sub-residential	79-80	3	29		
	-										

OTNER-	
Wind data collected atTACS stations and Hobby sirport	
Wind data fromdifferent sites for different runs	used for modeling.

^{*}TACB has made some adjustments to certain 03 data based on differences in instrument calibration methods. EPA is examining the documentation submitted by TACB to justify these adjustments.

Non-attainment	area	Hous ton,	TX	

0	Mode	ling	Status
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Model used: ____City-Specific EKMA - Preliminary Modeling Completed? Yes/XXX; if Yes, date 11/81 - Reviewed by: RO(s) Yes OAQPS Yes - Final Modeling Completed? Yes/ND; if Yes, date unknown - Reviewed by: RO(s) Yes OAQPS Yes o Key Modeling Information (Final Modeling Only)

Modeling Days Selected? Yes/NXS; if Yes, date 11/81

Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 0 ₃ Concentration (ppm)	Calculated % HC Control
Houston, TX	#452330024F01			
4/05/79 8/21/80	6.6	0.102	0.20* 0.22	48.5 46.6
5/31/79	7.5	0.097	0.18*	42.1
6/28/79	6,6	0.10	0.20*	40.3
11/02/80	5.8	0.06	0.21	20.3
Houston, TX	#452560034F01			
4/24/79	6.8	0.076	0.20*	52.3
5/17/80	5.7	0.085	0.24	50.0
8/21/80	7.5	0.09	0.26	44.8
10/08/80	5.8	0.115	0.27	41.2
9/13/80	5.8	0.11	0.34	36.5
Houston, TX	#452560047H01			
9/13/80	7.5	0.110	0.29	46.7
5/17/80	7.5	0.085	0.22	39.8
8/07/79	7.5	0.08	0.22	35.6
6/28/78	6.6	0.10	0.18*	35.3
7/18/78	6.6	0.097	0.24*	32.7

⁻ continued on next page -

0	% HC Control	Needed To	Attain 0	3 NAAQS	41
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o Remarks: *These ozone values based on proposed 18% reduction applied by TACB to the measured ozone concentrations for differences in instrument calibration methods. See remarks in Houston - Air Quality.

louston, TX	#452560051H01			
6/14/79 6/30/78 8/25/80 8/23/80 8/04/78	6.6 6.6 5.8 6.6	0.114 0.068 0.08 0.08 0.076	0.24* 0.29* 0.24 0.26 0.23*	52.0 50.3 43.7 38.5 33.3
Houston, TX	#452560035H01			
5/17/80 6/30/78 10/08/80 9/13/80 7/18/78	7.5 6.6 5.8 5.8 5.8	0.085 0.068 0.115 0.110 0.097	0.28 0.23 0.35 0.30 0.21*	51.3 47.5 46.5 38.6 26.2
Houston, TX	#452560038H01			
4/24/79 7/18/78 4/05/79 6/28/79 11/03/78 7/02/80	5.8 6.6 6.6 5.8 7.5	0.076 0.097 0.102 0.10 0.09 0.04	0.20* 0.22* 0.20* 0.20* 0.21* 0.22	52 49.2 46.2 40.3 32.6 32.5
Houston, TX	#452560039H01			
7/17/78 /05/78 /23/80 8/04/78 11/05/80	6.6 6.6 5.8 5.8 5.8	0.068 0.085 0.105 0.076 0.03	0.21* 0.24* 0.26 0.22* 0.22	44.7 39.9 35.7 32.1
Houston, TX	#452560037H01			
5/17/80 9/13/80 10/08/80 10/01/78 7/18/78	7.5 6.6 6.6 5.8 5.8	0.085 0.110 0.115 0.068 0.097	0.22 0.27 0.26 0.22* 0.23*	43.2 43.0 41.2 36.6 31.0

2.7 Region VII

St. Louis, MO/IL

CITY: St. Lo	uis	STATE(s):	Miss	ouri/Illinois		R.	EGION:	VII
COUNTIES: MO	- Jefferson,	St. Charl	es, St. Lou	is; IL - Madis	on, St. (lair		
				atural Resource				
E-W Gateway C	Coordinating	Council -	Righway; RO	VII (Pacific	nviroum	ental Servi	<u>(ce) - /</u>	Tes
EMISSION INVE	NTORY DATA S	UMARY						
POLLUTANTS IN	ventoried:	voc, no _x	BASE YEA	R: <u>1980</u>	03 ATT	ainment yea	AR:(1)
DATE RECEIVED	BY REGIONAL	OFFICE:	3/4/82		POPULAT	ION: 2,30	61,000	(1980)
REVIEW COMPLE	ETION DATES:	NONHIGHW	6/14/82	HIGHWAY 7/23	/82	2,5	32,000	(1987)
VOLA	ATILE ORGANIC kg/day	COMPOUNDS	.			rogen oxii kg/day	DES	
		_		765,17	<u>-</u>	740,010		740,010
				Poin (68%	- 1	Point (72%)		Point (72%)
521,804 Point (35%) 339,094 Area	376,630 Point (37%)	- Pe	,344 oint 35%)		Area (72)		Area (82)	
(38%)	236,640 Area (482)	A	,206 rea 482)	240,36 189,59		206,560	_A_	206,560
Highway (27%)	58,490		490	Highva (25%)		151,060		151,060
(2/2/	Highway (16%)	High	nway 7%)	(33.7)	1	Highway	(20%)	Highway
Base Year 1980	Baseline Projection 1987(b)	SIP S Proje	trategy ection 7 (c)	Base Year 1980	P	Baseline rojection 1987	Pro	Strategy jection 1987
	TOTAL	AOCR EMIS	SIONS NORMAL	IZED BY POPULA	TION (g/	cap/day)		
ventory	Base Y			Projection		rojection	Total	I Change
lutants	VOC	NO.	Voc	NO _x	VOC	NO _x	VOC	NO.
int Sources highway Area thway	77.4 83.0 60.7	222.3 21.5 80.3	55.5 70.1 23.1	210.7 21.9 59.7	47.8 67.0 23.1	210.7 21.9 59.7	-13	+ : + : -2:
ral		324.1	148.7	292.3	137.9	292.3	-33	

Number of Pacilities Greater than 250 kg/day (100 TPY): VOC 78 NO_x 37 COMMENTS: (a) Attainment by 1987 not demonstrated. (b) I/M credit included in baseline projection. (c) Controls included in SIP are RACT I, II, I/M, and TCM's. All contigencies included for IL strategy projections. MO includes RACT on 100 TPY nonRACT sources. (d) Calculated percent change for total emissions not emissions per capita.

- o Air Quality Data Base Status
 - Base Years: 1979,1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? XXX/No (see next item)
 - Are all data entered in SAROAD? XXX/No. If No, what is missing? <u>St. Louis</u> City data for 1981 still missing due to QA problems; apparently not considered essential for modeling analysis.
 - Accepted by EPA? Yes/Mu; if Yes, date 11/26/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area St. Louis. MO/IL

		 									
POLLUTANTS	SARDAD /	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE H7 (m)		DISTANCE FROM RD.	TRAFFIC ADT
NMOC/NDx Ozone	261040001G01	55 Hunter St	Clayton/ St. Louis Co.	ю	SLAMS	suburban/ Commercial	79-81	1.8	14		
Ozone	264280064H01	212 Tucker St.	St. Louis City/ St. Louis Co.	MO		center city/ commercial	78-80		Œ		
0zone	264280007H01	8227 South Broadway	St. Louis City/ St. Louis Co	MO	SLAMS	center city/ residential	79-80	10.5	10		
Ozone	254280061H01	Shreve & I-70	St. Louis City/ St. Louis Co.	NO.		center city/ industrial	79-80	3.6	8		
Ozone	264280062HO1	River Des Peres & Sulfur	St. Louis City/ St. Louis Co.	HD.	SLAMS	center city/ industrial	79-80	4.5	10		
Ozone	264280063HD1	Chain of Rocks Water Stn.	St. Louis City/ St. Louis Co.	NO	SLAVIS	center city/ commercial	79-80	2.0	15		
Ozone	264230001G01	5962 S. Lingherg	Afton/ St. Louis Co.	MO	SLAMS	suburban/ commercial	79-81	4.3	18	105	33000
Ozone	261600001601	3400 Pershall Rd.	florissant/ St. Louis Co.	MO	NAR	suburban/ commercial	79-61	1.8	15	25	100
Ozone	264120001601	St. Charles Rock Rd.	St. Ann/ St. Louis Co.	MD.	SLAMS	suburban/ commrcial	79-81	4.3	20		
Ozone	254300005601	305 Weldmen Rd.	Queeny Park/ St. Louis Co.	MO	SLAMS	rural/ near urban	79-81	4.2	26		
Ozone	2622B0012F01	Arnold Tenbrook & Tenbrook	Armold/ Jefferson	MO	SLANS	suburban/ residential	1981	30	26		
Ozone	264160002F01	G.E. Store MIT 94	West Alton/ St. Charles Co.	MO	NARS	suburban/ jadus trial	79-81	1.5	28	80	2500
Ozone	254160008305	HMY 94 45 m1. S. of US 40	Wentzville/ St. Charles Co.	70	SLANS	rural/ agricultural	80-81	4.0	60		
Ozone	140160006F01	2708 Edwards	Alton/ Madison Co.	ıı	SLAP6	suburban/ residential	79-81		30	24	1000
Ozone	144680007F01	Pang Rd.	Edwardsville/ Madison Co.	îL.	SLAG	rurel/ agriculturel	79-61	4.0	30		
Ozone	14468000EF01	District 11 Police Hq., Rt. 159	Maryville/ Medison Co.	11.	SLAMS	rural/ agricultural	79-81	8.0	24		
Ozone	148520007F01	Weter Treatment Plant 45 Walcott	Wood River/ Madison Co.	II.	SLAMS	suburban/ industrial	79-81	5.0	26		
Ozone	147960001F03	USDA Bldg.	Materloo/ Monroe Co.	IL.	SLAKS	rural/ agricultural	79-81	5.0	32		
Ozone	142120010F01	13 th & Tudor	East St. Louis/ St. Clair	IL.			79-81		•		
[1							

OTHER	
Wind data collected at	
Wind data fromCBD site (unidentified)	used for modeling.
Mining height data from Monet. MO, Little Rock, AK, and Salem, IL	used for matelline

	0	Mode	ling	Status
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Model used	l: City-	Specific EKMA		
- Prelimi	nary Modeling	Completed? Yes/X	; if Yes, dateun	known
- Reviewe	d by: RO(s)	Yes	OAQPS No	
	_		Yes, date unknow	
			OAQPS In proc	
		(Final Modeling O		
•		•	s, date <u>unkno</u>	wn
	.,,	100/100	<u> </u>	
Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak O3 Concentration (ppm)	Calculated % HC Control
St. Louis Co.,	MO #2610400	01G01		
7/17/80 8/22/81 6/03/79 9/11/79 6/30/80	6* 6* 6* 6*		0.171 0.153 0.156 0.170 0.139	46.6 37.4 35.2 33.6 18.3
St. Louis, MO	#264280007H0	1		
6/03/79 10/09/80 7/21/79 10/07/80	6* 6* 6* 6*		0.153 0.136 0.133 0.133	32.4 15.5 13.6 12.7
St. Louis, MO	#264280061H0	1		
7/20/79 7/19/79 7/21/79	6* 6* 6*		0.151 0.148 0.143	31.7 30.9 21.0
- continu	ed on next pa	ge -		

- o % HC Control Needed To Attain O3 NAAQS ______24.9**
- o Remarks: *Determined from median NMOC and NOx values for 1981 at suburban site;
 no usable NMOC data from CBD in base years. **Based on proposed -13.6% adjustment of 4th highest control value for Florissant, MO site as credit for estimated
 reduction in VOC emissions from 1979 to 1980. Still tentative, proposed adjustment and use of some assumptions deviating from EPA guidance have not been approved
 ***Illogical result.

st. Louis, MO #2	64230001G01			
7/13/80	6*		0.171	45.6
7/17/81	6*		0.161	40.3
7/09/79	6 *		0.150	31.2
7/21/79	6* 6*		0.130	8.0
8/15/80	0^		0.128	5.2
Flourissant, MO	#261600001G01			
6/30/80	6*		0.199	53.9
8/26/80-	6*		0.177	41.9
7/22/79	6 *	0.040	0.165	38.8
9/11/79 9/07/80	6 <u>*</u> 6*	0.042	0.188 0.162	38.5 37.1
3/07/00	0		0.102	37.1
St. Ann, MO #264				
9/11/79	6*		0.210	6.9
7/25/80	6 *		0.138	18.6
6/30/80	6* 6*		0.137	16.1
7/17/81	6*		0.133	8.7
7/22/79	0		0.133	6.5
Queeny Park, MO	#264300006G01			
7/10/79	6 *		0.175	45.5
′19/80	6*		0.152	31.3
./22/79	6*		0.146	24.1
9/11/79	6*		0.151	23.2
7/17/79	6*		0.139	14.9
Arnold, MO #2622	80012F01			
7/17/81	6*		0.180	48.9
7/10/81	6*		0.140	27.5
West Alton, MO #	264160002F01			
8/27/80	6*		0.162	34.3
7/11/81	6 *		0.148	32.5
5/18/79	6*		0.153	29.8
5/28/81	6 *		0.151	27.7
7/03/79	6*		0.145	24.6
Wentzville, MO #	264160008J05			
4/21/80	6*		0.161	28.6
7/17/80	6*		0.144	21.4
7/18/80	6*		0.127	2.9
St. Louis, MO #2	264280063H01			
7/08/79	6*		0.147	26.3
8/09/80	6*		0.143	25.6
7/21/79	6*		0.143	21.0

⁻ continued on next page -

Alton, IL #140	160006F01		
7/14/80 8/25/80 8/27/80 9/10/79 7/25/80	6* 6* 6* 6*	0.141 0.136 0.134 0.134 0.129	19.8 13.2 15.0 11.8 6.5
Edwardsville,	IL #144680007F01		
8/09/80 7/19/80 7/25/80 6/30/80 9/11/79	6* 6* 6* 6*	0.170 0.153 0.148 0.142 0.141	35.5 31.4 28.5 17.4 12.5
Maryville. IL	#144680008F01		
7/19/80 9/06/80 7/16/80 7/25/80	6* 6* 6* 6*	0.142 0.135 0.129 0.127	15.4 13.2 5.3 4.5
Wood River, IL	#148520007F01		
6/30/80 7/14/80 8/27/80 8/09/80 7/19/80	6* 6* 6* 6*	0.140 0.142 0.141 0.132 0.133	18.4 15.5 13.9 12.1 8.2
Waterloo, IL #	147960001F03		
7/11/80 7/13/80 7/10/80 7/02/80	6* 6* 6* 6*	0.128 0.128 0.128 0.126	4.5 5.1 5.9 1.9
East St. Louis	, IL #142120010F01		
7/19/80 6/18/80 7/13/80 8/09/80 6/30/80	6* 6* 6* 6*	0.143 0.134 0.132 0.129 0.125	23.2 14.1 5.3 1.9

2.8 Region VIII

Denver, CO Salt Lake City, UT

CITY: Denver STATE(s): Colorado REGION: VIII COUNTIES: Boulder, Adams, Jefferson, Douglas, Arapahoe and Denver RESPONSIBLE AGENCIES: Colorado Department of Health; Denver Regional Council of Governments EMISSION INVENTORY DATA SUMMARY POLLUTANTS INVENTORIED: RHC, NO. BASE YEAR: 1976 (a) 03 ATTAINMENT YEAR: 1987 POPULATION: 1,424,657 (1976) DATE RECEIVED BY REGIONAL OFFICE: 1/82 REVIEW COMPLETION DATES: NONHIGHWAY 5/28/82 HIGHWAY 7/23/82 1,876,600 (1987) NITROGEN OXIDES VOLATILE ORGANIC COMPOUNDS tons/day tons/day 262.2 262.2 247.0 202.8 Point Point Point Point Point (632)(60%) (60%) Area (16x)(10Z) (30Z) 169.9 149.2 Area **(7Z)** Area 109.9 109.9 (5%) 105.6 105.6 77.0 77.0 86.2 86.2 Righway 90.3 (74%) Area ATAR 60.1 (157)60.1 77.9 Highway Highway Highway **Highway** $(\bar{3}2Z)$ (332) (337) Highway (55%) (552)SIP Strategy Base SIP Strategy Base Beseline Baseline Year Projection Projection Year Projection Projection 1976 1987 (ъ) 1987 (ъ) 1976 1987 1987

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base	Year	Baseline P	rojection	SIP Pro	jection	Total Z	Change (c)
Pollutants	VOC	NO _x	AOC.	NO _x .	AOC	NO _x	VOC	NOx
Point Sources Nonhighway Area Highway	21.0 13.2 95.2	100.0 7.9 49.7	15.9 8.2 29.1	75.8 9.4 41.8	15.9 8.2 29.1	75.8 9.4 41.8	0 -18 -60	0 +56 +11
TOTAL	129.4	157.6	53.2	127.0	53.2	127.0	-46	+ 6

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 17 NO_X 21

COMMENTS: (a) 1976 data base developed for use with Urban Airshed Model. (b) Cannot determine if 1987 inventory is baseline or SIP strategy. Controls in SIP include RACT I, II, all 100⁺ TPY VOC sources, I/M, and TCMs. (c) Calculated percent change is for total emissions, not per capita.

Non-attainment	area	Denver, CO

- O Air Quality Data Base Status

 Base Years: 1975 & 1976

 Have all data been edited by ROs and verified by State/local Agency(ies)?

 Yes/Nb

 Are all data entered in SAROAD? Yes/Nb. If No, what is missing?
 - Accepted by EPA? Yes/No; if Yes, date ______6/80
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Denver. CO

Denver	, CO										
POLLUTANTS	SAROAD #	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	DISTANCE FROM CC (km)	DISTANCE FROM RD	TRAFFIC ADT
Ozone -	062210001F01	E. 78 th Ave. & Steel St.	lie l by/ Adams	co	NAVIS	suburben/ industrial	75-81	•	10 NRE	17	500
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OTMER:	
Wind data collected atabout 24 sites within the Denver area	
Wind data from above indicated sites	ssed for modeling
Mixing height data from Stapleton International Airport	wat for minitor

Non-attainment area	Denver, CO	
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o Modeling S	tatus				
Model us	ed: SAI -	- Urban Airshed			
- Preli	minary Modeling	Completed? Yes/	<u>₩6</u> ; if Yes,	date 3/	1/82
- Revie	wed by: RO(s) _	Yes	_OAQPS <u>Ye</u>	<u>s</u>	
- Final	Modeling Comple	eted? Yes /XXO; if	Yes, date	3/	1/82
- Revie	wed by: RO(s)	Yes	0AQPS	Yes	
		(Final Modeling			
		ed? <u>Yes/XXX</u> ; if Y		6/80	
Site-Days Modeled Welby - #062	NMOC/NO _X Ratio(s) 210001F01	Transported 03 Concen- tration(ppm)		03 tration pm)	Calculated % HC Control
7/28/76	NA NA	0.04	0.	171*	54
[Note: Above	based on prelim	ninary modeling	done prior	to 10/78]	
	ite (not identif on measurements		measured	model - estimated	Ĺ
	7/28/76 8/03/76 7/29/75		0.18 0.17 0.11	0.15 0.14 0.13	
Modeled Po	eak Estimated Ar	ywhere in Area			
	7/29/75 8/03/76 7/28/76			0,22 0,21 0.18	
*Design va ozone com	alue used in mod ncentration meas	deling for Denve sured in Denver	r based on area in 197	this being 6.	second highest
o % HC Contro	ol Needed To Att	tain O ₃ NAAQS	54		
o Remarks:	NA = Not appli	cable for model	used		

CITY: Salt Lake City	STATE(s): U	tah	REG	ON: VIII
COUNTIES:Salt Lake	and Davis			
				
DODAWATEL D. ACTION OF				
RESPONSIBLE AGENCIES:	Utah Department of Her	alth - Nonhighway		
asstch Front Regions!	Council, Otah Departme	ent of Transportation	- Highway	,
MISSION INVENTORY DAT	CA SUPMARY			
POLLUTANTS INVENTORIES		EAR: 1980 03 A	ATTAINMENT YEAI	. 1094 (-)
				1904 (a)
DATE RECEIVED BY REGIO	ONAL OFFICE: 2/82	POPU	LATION:	000 (1980)
EVIEW COMPLETION DATE	S: NONHIGHWAY 6/9/82	HIGHWAY _7/23/82	873,	000 (1987)
VOLATILE ORGA	ANIC COMPOUNDS		NITROGEN OXIDE	26
kg/da		, 	kg/day	
142,153 Point				
(18%)				
116,608			122,963	122,963
Area	Point	112,697	-	
(28%)	(9%)	Point	Point (31Z)	Point (31%)
77,220 78,89	. \	(302)	86,636	86,636
77,220	78,898	78,515	Area	Area
71,78		Area	(25%)	(25%)
Highway \ Area	(45%) Area	(25Z) 50,110	53,380 -	53,380
(54%) 36,51	6 36,516			į
Highw	ray Highway	Highway	Highway	Highway
(462		(45Z)	(442)	(442)
Base Baseli Year Project		Base	Baseline	SIP Strategy
	ion Projection (b) 1987 (c)	Year 1980	Projection 1987	Projection 1987

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base Year		Baseline	Baseline Projection		SIP Projection		Total Z Change(d)	
Pollutants	AOC	NO.	VOC	NO.	VOC	NO.	VOC	NO.	
Point Sources Nonhighway Area Highway	33.4 51.4 100.8	44.6 37.1 65.4	8.2 40.4 41.8	43.9 35.8 61.2	8.2 40.4 41.8	43.9 35.8 61.2	-72 -10 -53	+12 +10 + 7	
TOTAL	185.6	147.1	90.4	140.9	90.4	140.9	-45	+ 9	

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 8 NO_x 11

COMMENTS: (a) Attainment would be projected for December 1, 1983 if I/M were implemented.

(b) I/M included in baseline calculation. (c) Controls include RACT I,II, I/M, and TCMs.

(d) Calculated percent change is for total emissions, not emissions per capita.

o Air Quality Data Base - Status

_	Base Years:	1979, 1980 & 1981	

- Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/NX
- Are all data entered in SAROAD? Yes/No. If No. what is missing?
- Accepted by EPA? Yes/NM; if Yes, date 12/23/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Salt Lake City, UT

6092001 0P05 60220003P05	Deversaux Mansion					DATA	PROBE HT. (m)	(km)	(a)	TRAFFIC ADT
£02200023005	350 East South Temple	Salt Lake City/ Salt Lake	អ្ន		center city/ commercial	81	4	2 MM		
duzzous-us	Atkinson Site	North Salt Lake/ Davis	UT		rurel/ industrial	81	4	6 No.		
60920001F01	Health Department Bldg 610 South 2nd East	Selt Lake City/ Selt Lake	UT .	NAMS	center city/ commercial	79-81	8	CE	44	9500
60060001F01	Sount1ful	Bountiful/ Davis	υτ	INE	center city/ commercial	79-81	4	14 N	127	10120
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			50060001F0] Sount1ful Sount1ful/	SOCSOCOTFOL Sountiful Bountiful/ UT	610 South 2nd East Selt Lake South 2nd East Bountiful/ UT MANS	610 South 2nd East Selt Lake commercial sociococifo Bountiful Bountiful UT MANS center city/	610 South 2nd East Selt Lake commercial souts00001F01 Bount(ful Bount(ful) UT MANS center city/ 79-81	610 South 2nd East Selt Lake commercial soussous [1] Bountiful UT NAMS center city/ 79-81 4	610 South 2nd East Selt Lake commercial	610 South 2nd East Selt Lake Commercial

OTHER-		
Wind data collected at	Selt Lake City Airport and other sites.	
Wind data fromabove site	в	used for modeling.
Mixing height data fromM	S site at Salt Lake City Airport	used for modeling.

o Modeling S	tatus
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	Model used:	City-Specif	fic EKMA		
	- Preliminary	Modeling Comple	ted? Yes/##; if Yes	s, date <u>3</u> /	82
	- Reviewed by:	RO(s) Yes	OAQPS	No	
	- Final Modeli	ng Completed? You	es/Mp; if Yes, date	e	82
	- Reviewed by:	RO(s) Yes	OAQPS	Yes	
)	Key Modeling Info	rmation (Final	Modeling Only)		
	- Modeling Day	s Selected? Yes	/No; if Yes, date	unknown	

Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak O ₃ Concentration (ppm)	Calculated % HC Control
Salt Lake C	ity, UT #46092	:0001F01		
7/22/80 7/16/80 7/18/80 6/28/80 6/28/79	9 9 9 9	0.08 0.08 0.08 0.08 0.08	0.182 0.169 0.171 0.155 0.149	47 39 34 29 14
Bountiful,	UT #460060001F	·01		
8/11/80 6/28/79 7/22/81 7/28/81 7/28/80	9 9 9 9	0.08 0.08 0.08 0.08 0.08	0.178 0.190 0.163 0.155 0.164	38 36 35 24 20

0	% HC Cont	rol Needed	To Attain O	3 NAAQS	29		
	Remarks:					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

2.9 Region IX

Fresno, CA

Los Angeles South Coast Basin, CA

Sacramento, CA

San Diego, CA

San Francisco - Bay Area
Air Quality Management District, CA

Ventura/Oxnard, CA

CITY: Fresno	S7	ATE(s):Cal:	lforn18		REGI	ON: <u>IX</u>
COUNTIES: Pr	resno County Or	ıly				
RESPONSIBLE A	AGENCIES: Free	no Air Polluti	on Control D	ivision (FAPC	D) - Point Sou	rces, CARB
	-	Council of Fre				
			and county a			
	ENTORY DATA SU					
POLLUTANTS LI	NVENTORIED: RI	C, NO. BAS	E YEAR: 197	9 0 ₃ A	ITAINMENT YEAR	: <u>(a)</u>
DATE RECEIVE	D BY REGIONAL (OFFICE: 1/8	2_	POPUL	ATION: 484,6	00 (1979)
REVIEW COMPLI	ETION DATES: 1	NONEIGHWAY 3/5/	82 HIGHWAY	7/23/82	_591,2	40 (1987)
	ATILE ORGANIC (NITROGEN OXIDE	:S
VOL	tons/day	30H 00H 30	,		tons/day	
157.5	163.8				•	
Point	Point					
(14%)	(22%)		1			
136.0	128.4	\ Foint (16%)				
İ		11				
Area	1	1 1,96.0			109.2	100.0
(59%)	Area	1 / 1/20.0	1	89.5	Point	100.0
i i	(63Z)	81.1		Point	(52%)	Point
	1		Ì	(40%)		(57%)
	- [Area		53.7	52.2	
43.1		(65Z)	1	Area	Area	43.0
			i	(26%)	(25X)	Area
'	24.4		[30.0	24.8	(23%)
Highway	Highway	18.5		Highway	Highway	- 14.7
(27%)	(15%)	Highway (19%)		(342)	(23 Z)	Highway (20%)
Base	Baseline	SIP Strategy	_I	Base	Baseline	SIP Strategy
Year	Projection	Projection		Year	Projection	Projection
1979	1987	1987 (ъ))	1979	1987	1987

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base Year		Baseline Projection		SIP Projection		Total Z Change(c)	
Pollutants	AOC	NO _x	AOC	NO.	AOC	NO.	AOC	NO.
Point Sources Nonhighway Area Highway	40.3 174.3 80.9	67.2 44.5 56.2	54.4 160.0 37.5	87.6 42.1 38.1	22.9 96.3 28.4	87.6 35.8 30.3	-31 -33 -57	+59 - 2 -34
			·					
TOTAL	295.5	167.9	251.9	167.8	147.6	153.7	-39	+12

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 6 NO_X 8

COMMENTS: (a) Attainment not demonstrated by 1987. (b) Controls include RACT I, II, I/M, TCMs, other RACT, and control of nonhighway mobile sources. (c) Calculated percent change is for total emissions not emissions per capita.

Non-attainment area	Fresno, CA	
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- o Air Quality Data Base Status
 - Base Years: 1978, 1979 & 1980
 - Have all data been edited by ROs and verified by State/local Agency(ies)?
 Yes/NXX
 - Are all data entered in SAROAD? Yes/No. If No, what is missing?
 - Accepted by EPA? Yes/NX; if Yes, date ____unknown
- o Site Descriptions (for sites used in SIP analysis.)

Non-Assainment Area

r _{re}	ISHO, CA.									-	
POLLUTANTS	SARDAD #	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVASLABLE DATA	PROBE HT. (=)	FROM CC (km)	DISTANCE FROM RD (m)	TRAFFIC ADT
Ozone	05263000) FOI	Storte St.	Firebaugh/Fresno	Ü	SLAMS	rural	79-80		55		
Ozone/NOx THC	052800005 F01	3250 E. 011ve	Fresno/fresno	a	SLAMS	suburban/ comercial	78-80	•	CE .	24	15000
020ne/10x	052800240 101	5704 E. Butler	Fresno/Fresno	a	RAMS	suburban/ resident tall	78-80	6	CE	510	1200
Ozone	052900241 101	Shaw & Maple	Freson/Fresno	CA.	NAPS	suburban/ residential	76-80	6	CC	234	20000
Ozone	052820003 101	Dinky Creek Rd.	Shaver Lake/ Fresmo	ra.	SLAMS	resote	78-80		60		
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-	III.,				
	Wind data collected at				
	Wind data from	esed	for	mode l ing	
	Mixing height data from	mad	for	made i fee	

	Non-attainment	area	Fresno CA	
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o libacing bases	0	Mo	del	ing	Statu	15
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modering status			
Model used: <u>City-Speci</u>	fic EKMA		
- Preliminary Modeling	Completed? Yes/	$\underline{\aleph}\alpha$; if Yes, date _	unknown
- Reviewed by: RO(s)	Yes	OAQPS No	
- Final Modeling Comple	ted? <u>Yes/Να</u> ; if	Yes, date <u>unknow</u>	n
- Reviewed by: RO(s)	Yes (1/82)	OAQPS Yes	
Key Modeling Information (Final Modeling	Only)	
- Modeling Days Selecte	d? <u>Yes/χα</u> ; if Y	es, date <u>unkn</u>	own
Site-Days NMOC/NO _X Modeled Ratio(s) Firebaugh, CA #052630001F01	Transported 03 Concentration(ppm)	Peak O ₃ Concentration (ppm)	Calculated % HC Control
10/01/79 9.5 8/01/79 9.5 7/20/79 9.5 7/17/79 9.5 7/24/79 9.5 10/2/79 9.5 10/4/79 9.5		0.14 0.14 0.14 0.13 0.13 0.13	35 22 15 12 12 9 7
Fresno, CA #052800005F01 7/17/79 9.3 9/14/80 9.3 7/25/80 9.3 7/24/79 9.3 7/27/80 9.3		0.17 0.17 0.16 0.17 0.15	59 58 56 55 46
Fresno, CA #052800024F01 10/2/80 12.0 7/25/80 12.0 8/02/78 12.0 10/1/80 12.0 7/25/80 12.0		0.20 0.18 0.18 0.17 0.19	75 69 66 59 48
- continued on next page -			
% HC Control Needed To Att	ain O ₃ NAAQS	70*	
Remarks: *Closer examinati	on of assumption	ons concerning tran	sported ozone and

prevailing NMOC/NOx ratios for design day may be warranted. Any change in these

assumptions could alter % HC control needed.

7/24/80	16.8		0.21	79
10/4/78	16.8		0.18	73
9/13/79	16.8		0.18	71
8/03/79	16.8	0.15	0.18	70
10/12/78	16.8		0.18	70
8/03/79	11.4		0.15	47
Shaver Lake,				
7/31/79	11.4		0.14	21
8/02/78	11.4		0.13	10
9/04/80	11.4		0.13	9
	<i>~</i> •1·1·;4·		0.13	-

CITY: Los Angeles/SCAB STATE(s): California	REGION: IX
COUNTIES: Los Angeles, Orange, Riverside and San Bernardino	
RESPONSIBLE AGENCIES: California Air Resource Board, South Coast AQMD	- Nonhighway
Southern California Association of Government, CALTRANS - Highway	
EMISSION INVENTORY DATA SUPMARY	
POLLUTANTS INVENTORIED: ROC(a), NO. BASE YEAR: 1979 03 ATTA	INMENT YEAR: (b)
DATE RECEIVED BY REGIONAL OFFICE: 1/82 POPULATI	ON: 11,600,000 (1979)
REVIEW COMPLETION DATES: NONHIGHWAY 3/5/82 HIGHWAY 7/23/82	12,800,000 (1987)
ACTIVITY AUGUSTA AGUS AGUS (4)	ROGEN OXIDES (c) tons/dsy
1501 Foint (19z) 1237 1220 Point (26z) 963 (23z) 914 (15z) Area (31z) 743 749 723 Point (50z) 388 (43z)	(31%) 654 Area 720 720 720 720 720 720 720 72
NOTE STOCKED OF ALLEGAMEN	Baseline SIP Strategy rojection
Year Projection Projection Year Projection 1979 1987 (d) 1987 (e) 1979	1987 1987 (e)

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	- Base	e Year	Baseline	Projection	SIP Pro	pjection	Total Z	Change (f)
Pollutants	VOC	NO _x	VOC	NO _x	VOC	NOx	VOC	NO _x
Point Sources Nonhighway Area Highway	22.0 36.8 58.8	25.3 15.0 56.7	15.6 25.2 27.6	20.6 12.4 34.0	9.7 22.9 20.7	10.0 10.2 31.0	-52 -31 -61	-56 -25 -40
TOTAL	117.6	97.0	68.4	67.0	53.3	51.2	-50	-42

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 280 NO_X 95

COMMENTS: (a) Includes 1.7% (vt.) ethane. (b) Attainment not projected. (c) Point/area splits

estimated by EPA (MDAD) from review of source categories in summary tables. (d) Could not be

determined if baseline includes I/M credits. (e) Controls include RACT I,II, I/M, TCMs, other

RACT, and NO_X emission reduction. (f) Calculated percent change is for total emissions, not

emissions per capita.

٥	Air	Quality	Data Base	- Status
•	***	Q = 4 1 1 5 1	20 40 2020	

-	Base Years: 1978, 1979 & 1980 (1981 data will be addressed by State
-	in a later submittal.) Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/Nx
-	Are all data entered in SAROAD? Yes/%%. If No, what is missing?

- Accepted by EPA? Yes/MM; if Yes, date unknown

o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

Los Angeles/Sen Germandino, CA											
POLILITANTS	SAROAD #	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	DATA	PROBE HT. (m)		FROM RD	18AFFIC ADT
Ozone/MOz	050500002101	803 Loren Aire.	Azusa/ Los Angeles	CA	SLAMS	suburban/ industrial	78-87	5	48	12	1000
020ne/#0.	050930002101	228 M. Palm	Burbank/ Los Angeles	CA.	SLAMS	suburban/ industrial	76-81		27		
Ozone/HOz	052680001101	14838 foothill Blvd.	Fontana/ Los Angeles	u	NAMS	rural/ industrial	78-81	5	90	233	12000
Ozone/MOs THC	055120001101	24811 San Fernado Rd.	Newhell/ Los Angeles	CA	SLAMS	suburben/ comercial	78-81		52		
Ozone/NGx THC	053760004101	1196 E. Melnut St.	Pasadena/ Los Angeles	CA	HAIS	city center/ commercial	78-81	6	35	21	20550
Gzone	055820007101	3713 S. Gabriel Riv.	Pico Rivers/ Los Angeles	CL	SLAVS	suburben/ residential	78-81	• .	25	75	8000
Ozone/ADx THC	056040001101	924 M. Garey Ave.	Pomona/ Los Angeles	CA	SLAMS	suburben/ comercial	78-81		55		
020ne/NOx THC	056400003F01	1450 Penns, Ave.	Riverside/ Riverside	CA		rural/ agricultural	78-61	4	110	25	40000
Ozone/NOx THC	054660001101	172 W. 3rd St.	Sem Barnerdino/ St. Bernerd	CA	SLAMS	city center/ commercial	76-81		110		
Ozone	056700005101	24171 Lake Dr.	Lake Gregory/ St. Bernard	Œ	SLAMS	rural/near urben	79-81		125		
Ozone/#0x	057180001101	22201 Senta Canyon Rd.	Santa Ana/ Orenge	ZA.	SLANS	rurel/ agricultural	78-81		45		
Ozone/#0x THC	058440004F01	1350 S. Bernardino Rd.	Upland/ St. Bernard	CA	SLAVIS	city conter/ commercial	78-81	7	65	24	6000
Ozone	055160002101	US Navy Float Anal, Ctr.	Norco/ Riverside	CA	SLAMS	suburben/ residential	78~81			[
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OTNER			
Wind date collected at _			
Wind data from	mted	for	model ing.
Mixing height data from		far	modeling.

0	Modeling Status	5	
	Model used:	City-Specific EKMA	

- Preliminary Modeling Completed? Yes/Now; if Yes, date 11/81
- Reviewed by: RO(s) Yes OAQPS No

- Final Modeling Completed? Yes/Nox; if Yes, date __unknown

- Reviewed by: RO(s) Yes OAQPS Yes

o Key Modeling Information (Final Modeling Only)

Site-Days <u>Modeled</u> Azusa, CA #0	NMOC/NO _x Ratio(s) 5050002101	Transported 03 Concentration(ppm)	Peak 03 Concentration (ppm)	Calculated % HC Control
9/30/80 6/23/78 7/18/79			0.41 0.40 0.40	
Burbank, CA 6/27/80	#050900002101		0.35	
Fontana, CA 9/12/79 9/18/79 10/02/80 6/08/78	#052680001101		0.42 0.42 0.42 0.36	
Newhall, CA 10/03/80	#055120001101		0.36	
Pasadena, CA	#055760004101			
9/10/79 9/11/79 6/27/79 7/14/78 9/19/79 9/30/80	10.3	0.21	0.44 0.44 0.43 0.42 0.42 0.41	85*
•	ontinued on next	page -		
o % HC Control	Needed To Atta	In Oa NAAOS	85*	

o % HC Control Needed To Attain O₃ NAAQS _____85*

o Remarks: *Design control value based on information in draft SIP. Not known if control value is 4th highest for site.

Pico Rivera, CA #055820001101	
9/29/78 9/28/78 9/26/78	0.43 0.39 0.36
Pomona, CA #056040001101	
7/13/78 10/13/78	0.41 0.39
Riverside, _CA _ #056400003F01	
9/29/80	0.37
San Bernardino, CA #056680001101	
7/22/80 7/16/80	0.36 0.35
Lake Gregory, CA #056700005101	
6/11/79	0.35
Santa Ana, CA #057180001101	
6/12/79	0.35
.pland, CA #058440004F01	
10/08/80	0.38
Norco-Prado Park, CA #055160002101	
5/12/78	0.40

CITY: Sacramento STATE(s): California	REGION:	IX
COUNTIES: Placer, Sacramento, Solano, Sutter, Yolo		
RESPONSIBLE AGENCIES: California Air Resources Board - Nonhighway		
Sacramento Council of Governments, CALTRANS - Highway		
EMISSION INVENTORY DATA SUMMARY		
POLLUTANTS INVENTORIED: REC, NO. BASE YEAR: 1979 03 ATTAIN	ent year:	(a)
DATE RECEIVED BY REGIONAL OFFICE:POPULATION	973,400 (1979)(b)
REVIEW COMPLETION DATES: NONHIGHWAY 3/5/82 HIGHWAY 11/1/82	1,069,000 (1987)(c)
VOLATILE ORGANIC COMPOUNDS (d) NITRO	GEN OXIDES (d)	
70.3 70.3 Fighway (592) Area Righway	96.1 91.5 Area (28%) 64.2	96.1 91.5 Area (287) 64.2
24.6 24.6 Highway Highway (35%) (35%)	(672)	(672)
Year Projection Projection Year Proje		Strategy ojection 1987

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base	Year	Baseline Projection		SIP Projection		Total Z Change (f)	
Pollutants	AOC	NO _x	VOC	NO _x	Aoc	NOx	VOC	NO _x
Point Sources Nonhighway Area Highway	14.6 28.2 61.7	5.2 20.0 79.4	14.7 24.2 20.9	3.9 23.2 54.6	14.7 24.2 20.9	3.9 23.2 54.6	+11 - 6 -63	-18 +28 -24
TOTAL	104.5	104.6	59.8	81.7	59.8	81.7	-37	-14

Number of Facilities Greater than 250 kg/day (100 TPT): VOC (g) NO_X (g)

COMMENTS: (a) Attainment not projected. (b) 1979 population extrapolated from 1985 data in SIP and 1980 census. (c) Interpolated between 1985 and 2000 populations. (d) Limited documentation for stationary source portion of inventory. (e) Controls include I/M, some RACT, TCMs. (f) Calculated percent change is for total emissions, not emissions per capita. (g) Listing of major VOC/NO_x emitting facilities not submitted.

Non-attainment area S	Sacramento, CA	
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- o Air Quality Data Base Status
 - Base Years: 1978, 1979 & 1980 (State does not intend to evaluate the effect of 1981 air quality data on control strategy)
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/Mo
 - Are all data entered in SAROAD? **** No. If No, what is missing? Data from 1978, 1979 & 1980 missing for some sites.
 - Accepted by EPA? Yes/MM; if Yes, date unknown
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Ares

Sact	emento, CA										
POLLUTANTS	SAROAD /	SETE ED	CITY/COURTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROSE MT. (a)	PISTANCE FROM CC (km)	DISTANCE FROM RD.	ADT
Gzene	Q51370001F01	7400 Sunrise Blvd.	Citrus Heights/ Sacremento	a	IMIS	suburban/ mobile	78-61	7	20	52	28000
Ozone	052660001F01	City Corp Fard	Folson/ Sucremento	a	IMPS	suburban/ commercial	78-81	6	25	150	1000
Ozone	055180002101	7823 Black Foot Way	M. Highland/ Sacramento	a	SLAMS	suburban/ residential	78-81		14		
Ozone	056405810101	5000 Rocklin Rd.	Rocklin/ Secremento	CL CL	SLAMS	rusel/ agriculture	78-81		30		
Ozene	056600021101	Creekside School	Secremento/ Secremento	u		suburben residential	78-81		ec		
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OTHER:	
Mind data collected at	
Hind data from	used for modeling.
Mixing height data from	used for modeling.

Non-attainment area	Sacramento, CA	
NUMPALLA I IMENIL AFEA		

					
0	Modeling Sta	tus			
	Model used	: SMOG in fina	l modeling (EK	1A used in prelimina	ry modeling)
	- Prelimi	nary Modeling	Completed? Yes,	'Nő; if Yes, date	unknown
	- Reviewe	d by: RO(s)	Yes	OAQPS	No
	- Final M	odeling Comple	ted? <u>Yes/Nø;</u> 11	f Yes, date	unknown
	- Reviewe	d by: RO(s)	Yes	OAQPSYes	_
0	Key Modeling	Information (Final Modeling	Only)	•
	- Modelin	g Days Selecte	d? <u>Yes/Nö</u> ; if Y	es, date	unknown
	ite-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Concentrătion	Calculated % HC Control
S	acramento, CA	#05660000110	1		
7	/21/78*	**	**	0.22	50
0	% HC Control	Needed To Att	ain 0 ₃ NAAQS	50	
0	Remarks: *On	ly this day mo	deled using SM	OG to calulate contr	ol requirements.

Several site-days considered in preliminary modeling using EKMA. **No other

details about inputs to the SMOG model provided.

RESPONSIBLE A	GENCIES:	San Diego	Air Pollutio	n Control Divi	sion (APC)	- nonhig	hway	
CALTRANS - hi	ghway							
EMISSION INVE	NTORY DAT	A SUMMARY						
POLLUTANTS IN		: RVOC. NO.	. BASE YE	AR: 1978_	On ATTA	INMENT YE	AR: 19	37
DATE RECEIVED					POPULATI			
REVIEW COMPLE	TION DATE	S: NONEIGE	WAY 2/12/82	HIGHWAY 11/1/			0,000 (1	
VOLA	TILE ORGA	NIC COMPOUR	īDS		NIT	ROGEN OXI	DES	
305.5	tons/ds	У	 ı	1		tons/day	···	
		9 ay) ne SIP ion Pro (a)	186.2 163.7 Area (56Z) 60.2 Highway (32Z) Strategy jection 1987 (a,b)	192 158 Are: 133 Highw. (692 Base: Yea: 197	ay (13Z)	143.8 121.9 Area 91.8 Highway (64%) aseline ojection 1987	SIP Si Proje	
	TOT	AL AQCR EMI	SSIONS NORMA	LIZED BY POPUL	ATION (g/c	ap/day)		
entory	Bas	e Year	Baseline	Projection '	SIP Pr	ojection	Total Z	Change
lutants	VOC	NO _x	VOC	NO _x	VOC	NO _x	VOC	NO.
t Sources			16.2	9.2	9.4		-58	-36
nighway Area nway	55.8 79.7	13.8 71.5	45.5 31.4	12.6 38.4	43.4 25.2	11.2 35.2	0 -59	+ 3 -36
T.	164.3	103.6	93.1	60.2	78.0	55.6	-39	-31

inventories. (b) Controls include RACT I, II, I/M, TCMs, other RACT, nonhighway mobile source reductions, and NO_x emission reductions. (c) Calculated percent change is for total emissions,

not per capita emissions.

- o Air Quality Data Base Status
 - Base Years: 1978, 1979 & 1980 (1981 data will be addressed in a later submittal.
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/MX
 - Are all data entered in SAROAD? Yes/ANX. If No, what is missing?
 - Accepted by EPA? Yes/NXX; if Yes, date ____unknown_____
- o Site Descriptions (for sites used in SIP analysis.)

Non-Atteinment Area San Diego, CA

OTHER:

POLLUTANTS	SAROAD /	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	FROM CC	DISTANCE FROM RD.	TRAFF10
Ozone	056820006101	2300 Victoria Drive	Alpine/ San Diego	CA	SLAVES	rural/ near urban	78-81	18			
ISOx/HC	101300008320	Kaarney Hesa	San Diego City/ San Diego	CA	SLAMS	center city/ commercial	78-81	6		200	10000
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Wind data collected at 8 monitoring sites, 8 airport sites; Hontgomery Airport(signs)			
Hind data from above sites		_	mode l in
Mixing height data from Montgomery Airport (radigionos)	_		made 14-

Non-attainment area San Diego

0	Mode	ling	Status
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Model us	ed: MADC	AP		
- Preli	minary Modeling	Completed? Yes/No	; if Yes, date	4/20/82
- Revie	wed by: RO(s) _	No	OAQPS No	·
- Final	Modeling Compl	eted? <u>X&%/No;</u> if	es, date	
- Revie	wed by: RO(s) _	In process	OAQPS In proce	ss
o Key Modeli	ng Information	(Final Modeling O	nly)	
- Model	ing Days Select	ed? <u>Yes/Mě</u> ; if Ye	s, date <u>unknown</u>	
Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak O ₃ Concentration (ppm)	Calculated % HC Control
Alpine, CA	#056820006101			
7/25/78 7/22/77	NA** NA**	0.06*** 0.07***	0.14 0.18	31

- o % HC Control Needed To Attain 03 NAAQS ______31*
- o Remarks: *EKMA modeling of the same day indicates 47% HC reduction required.

 Also, this day had little if any 03 transport from the LA Basin. Additional documentation needed to verify design day selection (effect of transport from LA Basin) and to support several input assumptions. **Not applicable to this modeling analysis. ***Values given for EKMA analysis not specified for MADCAP.

CITY: San Francisco STATE(s): California	REGION: IX
COUNTIES: Alameda, Contra Costa, Marin, Napa, San Fran	ncisco, San Mateo, Santa Clara (plus
portions of Solano and Sonoma counties)	
RESPONSIBLE AGENCIES: Bay Area Air Quality Management	Division, California Air Resource
Board - Highway; Metropolitan Planning Commission - High	gbray
EMISSION INVENTORY DATA SUMMARY	
POLLUTANTS INVENTORIED: ROG, NO. BASE YEAR: 1979	O3 ATTAINMENT YEAR: 1987
DATE RECEIVED BY REGIONAL OPPICE:1/82_	POPULATION: 4,982,000 (1979)
REVIEW COMPLETION DATES: NONHIGHWAY 3/5/82 HIGHWAY 1	1/1/82 5,690,000 (1987)(a
VOLATILE ORGANIC COMPOUNDS (b) tons/day	NITROGEN OXIDES (b) tons/day
732	
Point	
(362)	Point (34Z) 543 543
483	Point Point
Area Point 430 -	424 Area (442)
310 310 304	310 304 304
Area Area	Point (22%) Area (22%)
Righway (33%) (29%) (42%) 150 150	(48Z) 186 186
Highway Highway	Point Point (34%)
Base Baseline SIP Strategy	Base Baseline SIP Strategy
Base Baseline SIP Strategy Year Projection Projection	Year Projection Projection

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline	Projection	SIP Pro	ojection	Total %	Change(d)
Pollutants	VOC	NO.	AOC	NO.	VOC	NO.	VOC	NO.
Point Sources Nonhighway Area Highway	45.4 31.6 56.6	40.0 20.8 56.6	28.1 25.6 24.0	38.2 18.8 29.7	24.6 20.1 24.0	38.2 18.8 29.7	-38 -27 -52	+ 9 + 4 -40
TOTAL	133.6	117.4	77.7	86.7	68.7	86.7	-41	-16

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 43 NO_x 29

COMMENTS: (a) 1987 population interpolated from ABAG '81 projections for 1980 and 1990.

(b) Point/area splits derived from EPA (MDAD) review. (c) Controls include RACT I, II, I/M, other RACT and area source controls on commercial/consumer solvents. (d) Calculated percent change is for total emissions, not emissions per capita.

Non-attainment	area	San	Francisco,	CA	

- o Air Quality Data Base Status
 - Base Years: 1978, 1979 & 1980 (1981 data will be addressed by State in a later submittal.)
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/XXXX

 - Accepted by EPA? <u>Y&\$/No</u>; if Yes, date _____
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area San francisco, CA

POLLUTANTS	SARQAD /	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	DISTANCE FPOM CC (km)	FROM RD.	ADT
Ozona	\$AROAD #	SITE ID 306 University Ave.	Los Gatos/ Senta Clare	CA	TYPE	center city residential	DATA 79-81	HT. (e)	FPOM CC (km)	FROM RD.	10000
•											

<u>other-</u>	
Wind data collected at	
Wind data from	used for modeling
Hixing height data from	used for modeling

o Modeling Sta	tus				
Model used	:LIRAQ	···			·
- Prelimi	nary Modeling (Completed? Yes/	Rus; if Yes, d	ate	4/20/82
		Yes		-	
		ted? <u>Yes/XX</u> ; if			vn
Reviewe	d by: RO(s)	Yes	OAQPS	Yes	····
o Key Modeling	Information (F	inal Modeling	Only)		
- Modelin	g Days Selected	i? <u>Yes/XXX</u> ; if Y	es, date	unkno	vn
Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak C Concentr (ppm		Calculated % HC Control
Los Gatos, CA	#054240001F01				
9/25/78	*	*	0.2	3	31
o % HC Control	Needed To Att	ain O ₃ NAAQS	;	31	
		about inputs			ovided
O NEMETRO	o other details	about inputs	LO THE LIKAU	mode I pr	путпец

CITY: Ventura/Oxnard STATE(B): Californ	ia	REGION:	IX
COUNTIES: Venture County - Onl	. y			
	_			
RESPONSIBLE AGENCIES: Ventura	County Air Pol	lution Control Divisi	on - Point; Califo	rnia
Air Resources Board - Area; CAL	TRANS - Highwa	У		
EMISSION INVENTORY DATA SUMMARY	<u>.</u>			
POLITIFIANTS TRUMPHODIED - POCK-	No bice	974D. 1070 O. 4		4
POLLUTANTS INVENTORIED: ROC(a)				
DATE RECEIVED BY REGIONAL OFFICE	E: <u>1/82</u>	POPUL	ATION: 506,203 (1	979)
REVIEW COMPLETION DATES: NONHI	GHWAY 3/11/82	HIGHWAY 7/23/82	644,000 (1	987)(c)
VOLATILE ORGANIC COMPO	UNDS		NITROGEN OXIDES	
tons/day		,	tons/day	
102.5	į.	24.0		
Point \	ļ	96.8		
(212)	1	Point		
81.0		(50%)	75.7	
68.5	-			
Area	61.9		``	59.7
(462)		48.9		
		Area		
34.3 (d)	(d)	37.9 ← (11)	(a)	(d)
Highway (332)	1 11	Righway]]
(334)		(392)		
Base Baseline SI	<u> </u>			<u> </u>
Year Projection P	P Strategy rojection	Base Year		Strategy ojection
1979 1987	1987 (e)	1979	1987	1987

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Bas	e Year	Baseline Projection		SIP Projection		Total % Change(f)	
Pollutants	AOC	NO _x	AOC	NO _x	VOC	NO.	VOC_	NO _x
Point Sources Nonhighway Area Highway	38.7 84.1 61.7	86.4 19.6 68.2	(d)	(d)	l	(4	1)
TOTAL	184.5	174.2	96.6	106.7	87.3	84.2	-40	-38

Number of Facilities Greater than 250 kg/day (100 TPY): VOC (g) NO_X (g)

COMMENTS: (a) ROC includes ethane. (b) Attainment by '87 not demonstrated. (c) Extrapolated to 1987 from 1983 and 1985 population data. (d) Breakdown of emissions into specified categories not readily available from summary tables. (e) Controls include RACT I,II, I/M, TCMs, some RACT III, NO_X source control, and other miscellaneous VOC controls. (f) Calculated percent change is for total emissions, not emissions per capita. (g) No listing of major VOC/NO_X facilities.

Non-attainment area V	/entura-Oxnard, CA
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- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)?
 Yes ktx
 - Are all data entered in SAROAD? Yes/No. If No, what is missing?
 - Accepted by EPA? Yes/MM; if Yes, date ___unknown
- o Site Descriptions (for sites used in SIP analysis.)

Non-Atlanment Area

Ventura	-Ornerd, CA										
POLLUTANTS		STAE TO	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT. (m)	DISYANCE FROM CC (km)	DISTANCE FROM RD. (m)	TRAFFIC ADT
Ozone	055340001 101	401 Signal H\$11	Ojaes/Yentura	CA	SLAMS	center city/ commercial	79-81		20		
Ozone	055560001 101	545 Central Ave.	El Rio/Vesture	CA	WKS.	rurel/ agricultural	79-80	6	20	115	3000
Ozone	056080001 101	Mave? Ciril Eng. Lab.	Port Hueneme	CA	SLAMS	renote	79-81		17	115	7000
Ozone	057670001 101	5400 Cochran St.	Simi. Valley	CA	NAR	suburban/ residential	79–81	6	16	113	7000
Ozone	058240001 101	1135 Windsoro Dr.	Thousand Oaks	CA		suburban/ residential	79 - 81	i	25		
Ozone	058490002 101	Seeside Tr. St. & Figueroe St.	Venture/Vent. Co	CA	SLAMS	suburben/ mphile	79-61		·		
Ozone	058500001 101	355 M. Helo	Piru/Ventura	CA	SLAVIS	rurel/ agricul tural	79-81		40		
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Hind data collected at	
trind deta from	used for modeling
Wizing height data from	used for andelin

0	Mod	lei	Ιi	ng	S	ta	tus
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Model used:	City-Specific EKMA		
- Preliminary Mod	eling Completed? Yes/M	kX; if Yes, date	unknown
	(s) Yes		
	Completed? Yes Mix; if		1
	(s) <u>Yes(1/82)</u>	•	
	tion (Final Modeling 0		
	_		
- modering bays S	elected? Yes/ANX; if Ye		
Site-Days NMOC/NO Ratio(s		Peak O ₃ Concentration (ppm)	Calculated % HC Control
Ojai, CA #055340001I	01 (Ojai Valley)		
8/11/80 9.5* 9/18/81 9.5* 8/12/80 9.5* 7/25/80 9.5* 7/26/80 9.5* 8/10/80 9.5* 8/10/80 9.5* 8/09/80 9.5* 9/20/79 9.5* 9/11/79 9.5*	0.09	0.18 0.20 0.17 0.17 0.17 0.18 0.18 0.18 0.17 0.17	42
El Rio, CA #055560001	101	3.23	
9/16/79 9.5* 9/11/79 9.5* 9/15/79 9.5* 6/18/81 9.5* 8/05/79 9.5* 9/06/79 9.5*		0.23 0.17 0.17 0.16 0.15 0.15	

n	% HC Control Needed To Attain O ₃ NAAQS _	42 Ojai Valley Portion 48 Oxnard Plain Portion
J	Remarks: *NMOC/NOx ratio of 9.5 used for	the entire Ventura-Oxnard analysis.

⁻ continued on next page -

Port Hueneme, CA	#056080 9 01F01			
6/09/79	9.5*		0.19	
9/06/79	9.5*		0.15	
2/11/79	9.5*		0.13	
9/11/79	9.5*		0.13	
10/2/80	9.5*		0.13	
Simi Valley, CA	#057670001101 (0	xnard Plain)		
8/05/79	9.5*		0.19	
7/18/81	9.5*		0.23	
6/18/81	9.5*		0.20	
7/31/79	9.5*	0.09	0.19	48
9/20/79	3.5 *		0.19	
Thousand Oaks, C	A #058240001101			
10/2/80	9.5*		0.19	
9/12/79	9.5*		0.17	
6/27/80	9.5*		0.17	
9/14/79	9.5*		0.17	
10/3/80	9.5*		0.17	
9/11/79	9.5*		0.18	
2/08/79	9.5*		0.17	
Ventura, CA #05	8490002101			
6/04/81	9.5*		0.15	
4/29/81	9.5*		0.14	
4/13/80	9.5*		0.13	
10/2/80	9.5*		0.13	
11/3/80	9.5*		0.13	
Piru, CA #05850	0001101			
6/05/81	9.5*		0.19	
9/11/79	9.5* ·		0.22	
10/2/80	9.5*		0.21	
6/29/81	9.5*		0.18	
8/09/80	9.5*		0.18	
10/3/80	9.5* 9.5*		0.19	
9/18/81	9.5* 9.5*		0.18	
7/17/79 6/18/81	9.5*		0.18 0.18	
6/27/81	9.5*		0.18	
0, 2, 7, 01	J. J		0.10	

2.10 Region X

Portland, OR/Vancouver, WA Seattle, WA

CITY: Portland STATE(s): Oregon/Washingt	COD	REGION: X					
COUNTIES: OR - Clackamas, Multnomah, Washington; WA - Clark.							
RESPONSIBLE AGENCIES: Oregon Department of Environment	mental Quality - No	onhighway (Oregon)					
Clark County RPC - Nonhighway (Washington), Portlan	nd Metropolitan Se	vice District- Highway					
EMISSION INVENTORY DATA SUMMARY							
POLLUTANTS INVENTORIED: VOC, NO. BASE YEAR:	1980 03 ATT	LINMENT YEAR: 1987					
DATE RECEIVED BY REGIONAL OFFICE: OR- 1/82; WA- 4/	/8 POPULAT	ION: 1,245,020 (1980)					
REVIEW COMPLETION DATES: NONEIGHWAY: OR- 3/21 HIG		1,410,670 (1987)					
VOLATILE ORGANIC COMPOUNDS WA- 6/23	WA- 11/1	ROGEN OXIDES					
kg/day	NA.	kg/day					
198,430							
Point							
(262)	i						
	Nonhighway	(a)					
147,395 145,130 145,130	i i	\- /					
Point Point	1 1	Nonhighway (a)					
Area (27%) (27%)	124,179	\					
(30%) 105,605 105,605	(32%)	118,103					
	(324)	(382) (382)					
88,260 Area Area	85,040	(30.7)					
(40x) (40x)		72,720 72,720					
Highway 47,770 - 47,770	Highway						
Highway Highway	(68%)	Highway Highway (62%)					
(332)		(624)					
	ii l						
<u> </u>							
Base Baseline SIP Strategy		aseline SIP Strategy					
Year Projection Projection 1980 1987 (b) 1987 (c)	Year Pr 1980	ojection Projection					
170/ (D) 170/ (C)	1760	1987 1987					

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory Base Year		e Year	Beseline Projection		SIP Projection		Total I Change (d)	
Pollutants	VOC	NO.	▼OC	NO _x	VOC	NO.	VOC	NO _x
Point Sources Nonhighway Area	41.0 47.5	31.4(a)	28.0 41.0	32.2(a)	28.0 41.0	32.2(a) -23 - 2	+15(a)
H1ghway	70.9	68.3	33.9	51.5	33.9	51.5	-46	-15
TOTAL	159.4	99.7	102.9	83.7	102.9	83.7	-27	- 5

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 32 NO_x (e)

COMMENTS: (a) NO_x inventory has no breakdown by point and area nonhighway sources. Summaries include all nonhighway sources. (b) I/M program included in baseline projection for OR only.

(c) No additional controls for '87. Includes RACT I,II, TCMs, I/M (OR only). (d) Calculated percent change for total emissions, not per capita emissions. (e) No listing of sources emitting >250kg/year of NO_x.

Non-attainment	area	Portland,	OR/WA
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o Air Quality Data Base - Status

- Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/NM

- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area Portland, OR

- 901	rtland, OR	_									
POLLUTANTS	SAROAD #	STAE ÎD	CITY/COUNTY	STATE	SITE TYPE	STATION TYPE	AVATLABLE DATA	PROBE HT (m	FROM CC	DISTANCE FROM RD. (m)	TRAFFIC ADT
NMOC/NOx	Not in SARDAD	Clark School	Portland/ Multnameh	OR		suburban/ residential	74-81	4		46	50-60
Ozone	380260004F03	Carus	Carus/Clackens	OR	MARS	rural/ agricultural	79-81	4	29	9	900
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OTHER	
Wind data collected at <u>Several sites and at local airports</u>	
Wind data fromFederal Building	used for modeling
Mixing height data from _Salem, Oregon MrS Soundings	used for modeling

Non-attainment	area	Portland,	OR/WA	
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0.146

0.126

0.124

26 * 9 * 8 *

MODELING

0	Modeling	Status
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8/06/81

8/08/81

8/18/81

6.8

6.8

6.8

Model us	ed: City-S	specific EKMA			
- Preli	minary Modeling	Completed? 1	<u>'es/NXX</u> ; if Yes,	date 11/20/	/81, report date
- Revie	ewed by: RO(s) _	Yes ·	OAQPS	No	
- Final	Modeling Compl	eted? Yes/No	; if Yes, date	unknown	
- Revie	wed by: RO(s) _	Yes	OAQPS	Yes	
•	ng Information ing Days Select	•		unknown	
Site-Days Modeled	NMOC/NO _x Ratio(s)	Transporte 03 Concen- tration(p	- Concen	Og tration pm)	Calculated % HC Control
Carus, OR #3	380260004F03				
8/11/81 8/07/81	6.8 6.8	0.06 0.04	0.2 0.1		48 * 29 *

0.04 0.04

0.04

o % HC Control Needed To Attain 03 NAAQS 26*

Remarks: *Due to deficiencies in Oregon's modeling approach and selection of control requirement, the Region has done some additional EKMA runs which have resulted in % HC control values which differ from those listed here. The Region's modeling exercise indicates 9.5% VOC control. However, the State still intends to use the 26% value which it calculated.

CITY: Seattle STATE(s): Washington	REGION: _	<u>X</u>
COUNTIES: Pierce, Snohomish, King		
	•	
DECRONSIDE ACCUSEDS Dans Sound AS Ballandon Control Access - North Chi		
RESPONSIBLE AGENCIES: Puget Sound Air Pollution Control Agency - Nonhigh	way	
EMISSION INVENTORY DATA SUMMARY		
POLLUTANTS INVENTORIED: VOC, NO. BASE YEAR: 1980 03 ATTAINM	ent year: 1	984
DATE RECEIVED BY REGIONAL OFFICE: 4/82 POPULATION:	2,033,000	(1980)
REVIEW COMPLETION DATES: NONHIGHWAY 6/2/82 HIGHWAY 7/23/82	2,316,000	(1987)(a
		<u> </u>
	EN OXIDES g/day	
356,999		
Point (13%)		
307,058		
Point (10%) Point		
Area \\		
(43%) 225,689 225,689	Point (10%)	
204,029 204,029	\	
156,878 Area Area 175,575 - 1	3,234	<u>163,264</u> →
(52%) (52%) Area (18%) 14	7,625	147,625
	rea (22%)	Area 111,700
(442)		
	ghway 68Z)	Highway (682)
		,,,,,
Base Baseline SIP Strategy Base Base	line SIP	Strategy
Year Projection Projection Year Proje	ction Pro	jection
1980 (b) 1987 1987 (c) 1980 19	87	(1987)

TOTAL AQCR EMISSIONS NORMALIZED BY POPULATION (g/cap/day)

Inventory	Base Year		Baseline	Projection	SIP Pro	jection	Total I Change (d		
Pollutants	voc	NO _x	voc	NO _x	voc	NO _x	VOC	NO _x	
Point Sources Nonhighway Area Righway	22.1 76.3 77.2	7.7 16.5 69.8	9.3 50.5 37.6	6.8 15.5 48.2	9.3 50.5 37.6	6.8 15.5 48.2	-51 -25 -45	0 + 7 -21	
TOTAL	175.6	94.0	97.4	70.5	97.4	70.5	-37	-15	

Number of Facilities Greater than 250 kg/day (100 TPY): VOC 34 NO_X 12

COMMENTS: (a) Interpolated from 1980 and 1990 population data. (b) Base year emissions from highway vehicles interpolated by EPA (MDAD) from 1977 and 1982 estimates. (c) Controls include RACT I - III, I/M, TCMs and RACT on 100+TPY nonRACT sources. (d) Calculated percent change for total emissions not emissions per capita.

- o Air Quality Data Base Status
 - Base Years: 1979, 1980 & 1981
 - Have all data been edited by ROs and verified by State/local Agency(ies)? Yes/No
 - Are all data entered in SAROAD? X88/No. If No, what is missing? All modeled data from Graham and some NMOC & NOx from other modeled sites.
 - Accepted by EPA? Yes/Mb; if Yes, date 7/09/82
- o Site Descriptions (for sites used in SIP analysis.)

Non-Attainment Area

CLLUTANTS	SARDAD /	SITE ID	CITY/COUNTY	STATE	SITE	STATION TYPE	AVAILABLE DATA	PROBE HT (m)	FROM CC	DISTANCE FROM RD	TRAFFI
		Sth & Jackson	Seattle/King Co	HA.	NAMS	city center	81	,			20.000
MOC/NOx Ozone	491840082 F01 490980010 F01	Lake Sammanish	Lake Semmanish/	MA	NAMS	Pural/	79-81	7	28	320	4000
			King Co Fife/Pierce Co	MY.	NAMS .	unquelified suburban/	80-81	5		25	500
Ozone	491560004 F01	Firmood Fire Station	7112/710/02 00	_		residential					100
Oxone	Not in SARDAD	Srehan	Graham/Pierce Co	W	SLAMS	rural/ Agricultural	78-81	8	64	42	۳ ا
Ozone	492100001 101	Suitmer	Summer/Plance Co	ш.	NARS	suburban/ residential	79-81	١	45	130	1000
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<u>01</u>	MER			
	Wind data collected atSeveral of the agency sites and at local airports		_	
	Wind data from Fort Union (Seattle)	used	for	mode ling
	Hising height data fromfort Union (Seattle)	used	for	ande ling

Non-attainment area	Seattle, WA
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0	Mod	le 1	in	ıg	S	ta	tus
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Model use	ed: City	-Specific EKMA		
- Prelin	ninary Modelin	g Completed? Yes/No	; if Yes, date 3/05	5/82, report date
- Review	ved by: RO(s)	Yes	OAQPS No	
- Final	Modeling Comp	leted? <u>Yes/NXX;</u> if Y	es, date <u>unknown</u>	
		Yes		
	_	(Final Modeling Or		
- Modeli	ing Days Selec	ted? Yes/NX; if Yes	, date <u>unknown</u>	
Site-Days Modeled	NMOC/NO _x Ratio(s)	Transported 03 Concen- tration(ppm)	Peak 0 ₃ Concentration (ppm)	Calculated % HC Control
Graham, WA				
8/07/81** 8/08/81**	*	***	0.14	22
8/10/81** 8/11/81**	*	*** ***	0.14 0.14 0.15	22 22 22
Lake Sammami	sh, WA #490980	010F01		
8/11/81**	*	***	0.15	33
Sumner, WA #4	492100001101			
8/10/81**	*	***	0.15	· 36
8/07/81** 8/11/81**	*	*** ***	0.13 0.13	14 14
Firwood, WA	#491560004F01			
8/10/81**	*	***	0.13	16
		-		
% HC Contr	rol Needed To	Attain O. NAAOS	24.3***	

o % HC Control Needed To Attain 03 NAAQS 24.3****

o Remarks: *NMOC/NOx ratios of 9.5:1, 4.1:1, and 3.4:1 were used on all days

Remarks: **NMOC/NOX ratios of 9.5:1, 4.1:1, and 3.4:1 were used on all days modeled. The ratio which gave the most control was used to establish the control required for each day. **No exceedances were observed in 1980. Exceedances in 1979 were modeled. Although specific information on these days is not available, the 1979 data will not affect the control requirements, according to the Region. ***Values of zero were incorrectly used for the modeling runs. ***Additional modeling using transported ozone of 0.035 was conducted by the Region resulting in a revised % HC control value of 24.3%.