

**YEAR 2000 POINT SOURCE
SO₂ EMISSIONS ANALYSIS -
9 STATE WESTERN REGION
REPORT**

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U.S. Environmental Protection Agency (EPA) regional haze rule requirements related to the Grand Canyon Visibility Transport Commission (GCVTC) (Section 51.309) establishes the requirements for the first regional haze implementation plan to address regional haze visibility impairment in the 16 Class I areas covered by the GCVTC report. For the years 2003 to 2018, Transport Region States may choose to implement the Commission's recommendations within the framework of the national regional haze program and applicable requirements of the Act by complying with the provisions of this section, as supplemented by an approvable Annex to the Commission Report as required by Section 51.309(f). If a transport region State submits an implementation plan which is approved by EPA as meeting the requirements of this section, it will be deemed to comply with the requirements for reasonable progress for the period from approval of the plan to 2018.

One item that must be included in the first implementation plan is monitoring and reporting of stationary source sulfur dioxide (SO₂) emissions. This monitoring and reporting data must be sufficient to determine whether a 13 percent reduction in actual stationary source SO₂ emissions has occurred between the years 1990 and 2000, and whether milestones required by Section 51.309(f)(ii) have been achieved for the transport region.

This report provides year 2000 SO₂ emission estimates for the point sources in the nine State Commission Transport Region that emit 100 tons per year (tpy) or more of this pollutant. These 2000 SO₂ estimates are then compared with 1990 SO₂ emission estimates to determine the percentage change in SO₂ emissions during this ten-year period.

Year 2000 electric utility SO₂ emissions were estimated using EPA's Acid Rain Scorecard emissions tracking system (ETS)/ continuous emissions monitoring (CEM) data for that calendar year (www.epa.gov/airmarkets/emissions/index.html). For plants or units that do not report to ETS/CEM, the Energy Information Administration (EIA) Form EIA-767 fuel use (www.eia.doe.gov/cheaf/electricity/page/eia-767.html) and AP-42 SO₂ emission factors (www.epa.gov/ttn/chief/ap42/index.html) were used to estimate SO₂ tpy.

The non-utility SO₂ emission estimates for 2000 were prepared using the previous Western Regional Air Partnership (WRAP)-sponsored analysis for 1996 and 1998 as a starting point. This 1996 and 1998 SO₂ emissions information was provided to the emission inventory contacts in each of the nine Commission Transport Region States in spreadsheets. Blank columns were provided so that States could insert year 2000 SO₂ emission estimates.

State responses were received from all nine States. With the exception of California, all States provided estimates of year 2000 emissions in the requested format. The California Air Resources Board

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(ARB) provided data from its 1999 CEIDARS emission inventory. E.H. Pechan & Associates, Inc. (Pechan) staff inserted these 1999 calendar year emission estimates in the spreadsheets by matching on county code, facility identifier, and facility name/location, where possible. All emissions from >100 tpy sources were included in the 2000 emission estimates.

The tables that follow provide 1990 and 2000 SO₂ emissions organized by State and sector (utility, copper smelters, combined heat and power, and non-utility). Regional SO₂ emission totals show that there has been a 25 percent reduction in these emissions from 1990 to 2000. The change is from a 1990 emission estimate of 828,775 tons to 621,838 tons.

Notes:

The 1990 SO₂ emission estimates for the 9 Commission Transport States were provided to Pechan in an MS Excel file named: MAST1098.xls. No changes to these 1990 emission estimates were made by Pechan during this project.

Year 2000 emission estimates

1. Arizona - Year 2000 SO₂ emission estimates provided by Mike George, Arizona Department of Environmental Quality, Phoenix, AZ [Filename: az2000.xls].
2. California - Year 1999 SO₂ emission estimates provided by Andrew Alexis, California Air Resources Board, Planning and Technical Support Division, Sacramento, CA, January 17, 2002 [Filename: CEIDARS99_SO2 Summary Emissions, by Facility (Access file)].
3. Colorado - Year 2000 SO₂ emission estimates provided by Roy Doyle, Colorado Department of Health, Denver, CO, December 27, 2001 [Filename: co2000.xls].
4. Idaho - Year 2000 SO₂ emission estimates provided by Gary Reinbold, Idaho Department of Environmental Quality, Boise, ID, January 9, 2002 [Filename: id2000.xls].
5. Nevada - Year 2000 SO₂ emission estimates provided by Lori Campbell, Bureau of Air Pollution Control, Division of Environmental Protection, Carson City, NV [Filename: nv2000-SO2.xls]. The year 2000 SO₂ emission estimate for the Chemical Lime plant in Clark County was provided by Ed Barry, Western Environmental Manager, Chemical Lime, Scottsdale, AZ.
6. New Mexico - Year 2000 SO₂ emission estimates provided by Jim Shively, New Mexico, December 31, 2001 [Filename: nm2000.xls]

Wayne Leipold of Phelps Dodge provided revisions to the New Mexico-supplied SO₂ emission estimates for Chino Mines and the Hidalgo Smelter. Year 2000 SO₂ emission estimates were 11,420 tpy for Chino Mines and 0 for Hidalgo. These estimates were determined to be more representative of 2000 emissions than the State-provided values.

7. Oregon - Year 2000 SO₂ emission estimates provided by Steven Aalbers, Oregon Department of Environmental Quality, Portland, OR, January 11, 2002 [Filename: or2002 (to Jim Wilson_EHPechan 1-11-2000_sda).xls].

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8. Utah - Year 2000 SO₂ emission estimates provided by Carol Nielson, Utah Department of Environmental Quality, Salt Lake City, UT, January 17, 2002 [Filename: Wilson_2000.xls].
9. Wyoming - Year 2000 SO₂ emission estimates provided by Lee Gribovicz, State of Wyoming, Department of Environmental Quality, Lander, WY, January 10, 2002 [Filename: wy2000corr.xls].

REFERENCES

EPA, 1999: U.S. Environmental Protection Agency, "Final Regional Haze Regulations for Protection of Visibility in National Parks and Wilderness Areas," April 22, 1999.

Pechan, 2000: E.H. Pechan & Associates, Inc., "Historic and Future SO₂ Emissions Analysis - 9 State Western Region," prepared for Western Governors' Association, Denver, CO, July 28, 2000.

Table 1
 State-by-State Comparison of 1990 and 2000 Stationary Source SO₂ Emissions
 9 Commission Transport Region States
 (tons per year)

States	1990	2000
Arizona	185,398	99,133
California	52,832	38,501
Colorado	95,534	99,161
Idaho	24,652	27,763
Nevada	52,775	53,943
New Mexico	177,994	117,344
Oregon	17,705	23,362
Utah	85,567	38,521
Wyoming	136,318	124,110
Totals	828,775	621,838

Table 2
 Regional SO₂ Emissions by Major Sector (1990 and 2000)

	1990	2000
Electric Utilities	462,869	409,110
Smelters	148,510	35,920
CHP	5,974	7,171
Non-Utility Point	211,422	169,637
Totals	828,775	621,838

Table 3
 State-by-State 1990 and 2000 Stationary Source SO₂ Emissions by Sector
 (tons per year)

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State	1990				2000			
	Electric Utilities	Smelters	CHPs	Non-Utility Point	Electric Utilities	Smelters	CHPs	Non-Utility Point
Arizona	123,516	52,190	0	9,692	71,374	23,563	0	4,196
California	5,659	0	394	46,779	289	0	883	37,329
Colorado	81,717	0	2,675	11,142	89,722	0	2,583	6,856
Idaho	0	0	0	24,652	0	0	117	27,646
Nevada	50,595	0	0	2,180	53,200	0	0	743
New Mexico	70,471	69,491	0	38,032	68,990	11,420	0	36,934
Oregon	5,180	0	0	12,525	14,374	0	0	8,988
Utah	28,673	26,829	2,905	27,160	27,198	937	3,588	6,798
Wyoming	97,058	0	0	39,260	83,963	0	0	40,147

Totals	462,869	148,510	5,974	211,422	409,110	35,920	7,171	169,637
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Table 4
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂
 Arizona

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO2 tpy 1990	SO2 tpy 1996	SO2 tpy 1998	SO2 tpy 2000
100 tpy or More SO2													
AZ	4	007	0004	45	3331	2	Copper	ASARCO SMELTER - HAYDEN		29,814	33,124	22,077	16,753
AZ	4	021	0032	46	3331	2	Copper	BHP(Magma Metals)	BHP - San Manuel	15,900	16,678	10,409	0
AZ	4	007	0006	45	3331	2	Copper	CYPRUS MIAMI MINE		5,676	5,737	6,097	6,810
AZ	4	019	0040	46	1021	2	Copper	Cyprus Sierrita		800	548	<100	<100
AZ	4	025	0011	41	3274	10	Metals/Mining/Minerals	CHEMICAL LIME (CHEMSTAR)		141	122	639	702
AZ	4	003	0003	47	3274	10	Metals/Mining/Minerals	Chemical Lime (Douglas)		212	364	724	742
AZ	4	019			3241	10	Metals/Mining/Minerals	Arizona Portland Cement					320
AZ	4	025		41	3241	4	Cement/Concrete	Phoenix Cement		<100	197	339	539
AZ	4	017	0007	43	2611	3	Wood/Paper/Pulp	STONE CONTAINER	ABITIBI	8,536	2,455	2,448	1,893
AZ	4	005	0001	42	2911	6	Oil/Gas	Intermountain Refining		803	0	0	0
										61,882	59,225	42,733	27,759

∞ Table 5
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂
 California

State	State ID	County ID	Old Facility ID	New Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
100 tpy or More SO₂														
CA	6	037	800012		14	2911	6	Oil/Gas	ARCO (NSR USE ONLY)	ARCO PRODUCTS CO	1,919	2,359	1,706	2,315
CA	6	037	47232		14	2999	6	Oil/Gas	ARCO CQC KILN INC		442	343	404	408
CA	6	037		106797	14	3221	8	Glass	BALL-FOSTER GLASS CONTAINER CO	SAINT-GOBAIN CONTAINER	<100	<100	166	174
CA	6	029	9		13	3241	4	Cement/Concrete	CAL PORTLAND CEMENT CO.		429	245	245	245
CA	6	029	20		13	3241	4	Cement/Concrete	CALAVERAS CEMENT CO		286	286	286	286
CA	6	083		12	?	3295	10	Missing	CELITE CORPORATION		14	424	465	678
CA	6	037	800030		14	2911	6	Oil/Gas	CHEVRON U.S.A. INC (EIS USE) - EL SEGUNDO	CHEVRON PRODUCTS CO.	833	1,795	938	1,208
CA	6	013	10		11	2911	6	Oil/Gas	CHEVRON USA INC - RICHMOND	CHEVRON PRODUCTS COMPANY	1,291	1,018	1,413	1,244
CA	6	029	310	1128	13	4612	6	Oil/Gas	CHEVRON-BITTERWATER PUMP STN.		166	<100	138	171
CA	6	095	15		11	2911	6	Oil/Gas	EXXON CORPORATION - BENICIA		4,922	6,042	5,779	5,779
CA	6	099		1662	11	3221	8	Glass	GALLO GLASS CO		61	271	269	440
CA	6	013	23		11	2819	5	Chemicals/Plastics	GENERAL CHEMICAL CORPORATION		206	201	213	207
CA	6	019	77	598	12	3211	8	Glass	GUARDIAN INDUSTRIES CORP.		546	433	406	479
CA	6	085	17		11	3241	4	Cement/Concrete	KAISER CEMENT CORPORATION	HANSON PERMANENTE CEMENT	474	464	416	474
CA	6	029	133	37	13	2911	6	Oil/Gas	KERN OIL & REFINING CO.		319	425	443	364
CA	6	087	11		11	3241	4	Cement/Concrete	LONE STAR INDUST CEMENT PLANT	RMC PACIFIC MATERIALS	250	286	393	314
CA	6	039	18	801	12	3221	8	Glass	MADERA GLASS COMPANY		108	170	190	104
CA	6	045	23		10	2499	3	Wood/Paper/Pulp	MASONITE HARDBRD DIV		102	102	102	102
CA	6	017	7		11	2421	3	Wood/Paper/Pulp	MICH-CAL LBR CO	SIERRA PACIFIC INDUSTRIES	271	271	271	10
CA	6	071	7000000		15	3241	4	Cement/Concrete	MISTUBISHI CEMENT		28	574	946	298
CA	6	037	800089		14	2911	6	Oil/Gas	MOBIL OIL CORP (EIS USE) - TORRANCE	MOBIL OIL CORP (EIS USE)	256	807	725	1,018
CA	6	077	17	593	11	3221	8	Glass	OWENS ILLINOIS	OWENS-BROCKWAY GLASS CONTAINER	319	285	218	248
CA	6	037	7427		14	3221	8	Glass	OWENS-BROCKWAY GLASS CONTAINER - VERNON		193	323	280	435
CA	6	013	32		11	2911	6	Oil/Gas	PACIFIC REFINING COMPANY	NOW PLANT ID 11587	278	290	0	
CA	6	019		948	12	3211	8	Glass	PPG IND. INC	PPG INDUSTRIES		159	159	94
CA	6	037	800131		14	2819	5	Chemicals/Plastics	RHONE-POULENC BASIC CHEMICALS - CARSON	RHODIA INC.	319	167	337	242
CA	6	013	20		11	2819	5	Chemicals/Plastics	RHONE-POULENC BASIC CHEMICALS - MARTINEZ	RHONE-POULENC INC	289	443	242	276
CA	6	071		1200003	15	3241	4	Cement/Concrete	RIVERSIDE CEMENT COMPANY		0	527	527	164
CA	6	029	25		13	2911	6	Oil/Gas	SAN JOAQUIN REFINERY	SAN JOAQUIN REFINING COMPANY	337	313	138	
CA	6	029	211	1141	13	1311	6	Oil/Gas	SANTA FE ENERGY	TEXACO CA INC	1,539	855	2,050	2,050
CA	6	013	11		11	2911	6	Oil/Gas	SHELL OIL COMPANY - MARTINEZ	MARTINEZ REFINING COMPANY	2,790	2,518	2,374	1,159
CA	6	023	21		10	2611	3	Wood/Paper/Pulp	SIMPSON PAPER COMPANY	SIMPSON PAPER CO	1,021	315	315	
CA	6	029		1129	13	1311	6	Oil/Gas	TEXACO EXPLOR & PROD INC		1	89	112	63
CA	6	037	800223		14	2911	6	Oil/Gas	TEXACO REFINING & MARKETING IN - WILMINGTON		546	727	590	953
CA	6	029	19	33	13	2911	6	Oil/Gas	TEXACO REFINING AND MARKETING - BAKERSFIELD	EQUILON ENTERPRISES LLC	471	190	94	72

State	State ID	County ID	Old Facility ID	New Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
CA	6	013	13	12758	11	2911	6	Oil/Gas	TOSCO CORP AVON REFINERY		7,661	4,459	5,422	5,422
CA	6	037	800026		14	2911	6	Oil/Gas	ULTRAMAR INC (NSR USE ONLY)		341	959	669	620
CA	6	013	22		11	2999	6	Oil/Gas	UNION CHEMICALS - RODEO	TOSCO REFINING COMPANY	1,606	1,535	1,474	1,728
CA	6	037	800144		14	2911	6	Oil/Gas	UNION OIL CO OF CAL (NSR USE O	TOSCO REFINING COMPANY	724	1,005	806	806
CA	6	001	83		11	3321	10	Metals/Mining/Minerals	UNITED STATES PIPE & FOUNDRY C		127	122	111	147
CA	6	027	7		12	1061	10	Metals/Mining/Minerals	UNITED STATES TUNGSTEN CORP.	AVOCET TUNGSTEN	123	123	123	123
CA	6	079	4		13	2911	6	Oil/Gas	UNOCAL CARBON	TOSCO SANTA MARIA REFINERY				
CA	6	079	4		13	2911	6	Oil/Gas	UNOCAL CHEM DIV-UNOCAL CORP - ARROYO GR	TOSCO	3,034	3,950	0	
CA	6	013	16		11	2911	6	Oil/Gas	UNOCAL CORPORATION - RODEO	TOSCO RODEO REFINERY	584	728	675	615
CA	6	037			14	2911	6	Oil/Gas	UNOCAL REFINING & MARKETING CO	TOSCO REFINING (L.A.)	0	343	508	587
CA	6	079	13		13	2911	6	Oil/Gas	UNOCAL- SANTA MARIA REFINERY	TOSCO SANTA MARIA REFINERY	647	225	3,501	3,727
CA	6	077	802			4931	1A	CHP	STOCKTON COGEN		197	210	191	218
CA	6	113	25			8221			UC-DAVIS					289
CA	6	071	50001051		15	4911	1A	CHP	ACE COGENERATION		13	306	306	336
CA	6	089	23			2611	3	Wood/Paper/Pulp	SHASTA PAPER-ANDERSON					216
CA	6	071	900002		15	2819	1A	CHP	IMC CHEMICALS		184	178	178	178
CA	6	071	100005		15	3241	4		CEMEX-CALIFORNIA CEMENT					427
CA	6	075	26			4931	1A	CHP	SOUTHERN ENERGY CALIFORNIA					151
CA	6	013	10834		11	3299			PACIFIC CUSTOM MATERIALS					108
CA	6	037	42333		14	3471	10	Metals/Mining/Minerals	AMERICAN NATIONAL CAN CO		149	0	0	
CA	6	001	2086		11	3221	8	Glass	ANCHOR GLASS CONTAINER CORPORA		119	0	0	
CA	6	029	206		13	1311	6	Oil/Gas	BERRY PETROLEUM COMPANY		237	0	0	0
CA	6	013	33		11	2062	7	Food	CALIFORNIA & HAWAIIAN SUGAR CO		189	0	0	
CA	6	071	800181		15	3273	4	Cement/Concrete	CALIFORNIA PORTLAND CEMENT CO		112	<100	13	12
CA	6	019	71		12	1311	6	Oil/Gas	CHEVRON USA INC. - COALINGA		809	0	0	
CA	6	029	312		13	4612	6	Oil/Gas	CHEVRON-RIO BRAVO STATION		101	0	0	
CA	6	107	28		12	2023	7	Food	DAIRYMANS COOP CREAMERY		212	0	0	
CA	6	037	800047		14	2911	6	Oil/Gas	FLETCHER OIL & REF CO (EIS USE		107	0	0	
CA	6	013	3257		11	2611	3	Wood/Paper/Pulp	GAYLORD CONTAINER CORPORATION		263	0	0	
CA	6	037	800184		14	2911	6	Oil/Gas	GOLDEN WEST REF CO (EIS USE)		232	0	0	
CA	6	099	17		11	2033	7	Food	HUNT-WESSON FDS		174	0	0	
CA	6	005	21		11	4911	1.1	Electricity	IONE ENERGY COMPANY		239	0	0	
CA	6	077	2	767	11	2879	5	Chemicals/Plastics	J R SIMPLOT CO.		1,389	102	89	89
CA	6	023	37		10	2611	3	Wood/Paper/Pulp	LOUISIANA-PACIFIC CORP.		302	<100	42	42
CA	6	029	272		13	1311	6	Oil/Gas	M H WHITTIER	SENECA RESOURCES	347	0	0	
CA	6	053	19		12	1311	6	Oil/Gas	MOBIL OIL CORP - SAN ARDO	AERA ENERGY	304	0	1	6
CA	6	053	12		12	3274	10	Metals/Mining/Minerals	NATIONAL REFRACTORIES&MINERALS	CHEMICAL LIME CO	243	<100	69	82
CA	6	077	191		11	2621	3	Wood/Paper/Pulp	NEWARK SIERRA PAPERBOARD CORP.		270	0	0	
CA	6	001	30		11	3221	8	Glass	OWENS-BROCKWAY GLASS CONTAINER - OAKLAND		122	128	64	57
CA	6	037	800103		14	2911	6	Oil/Gas	POWERINE OIL CO (EIS USE)		196	0	1	1
CA	6	047	22		12	2033	7	Food	RAGU FOODS	LIPTON	202	0	0	
CA	6	029	204	1135	13	1311	6	Oil/Gas	SHELL KERNRIDGE	AERA ENERGY LLC	294	<100	82	55
CA	6	037	800115		14	2911	6	Oil/Gas	SHELL OIL CO (EIS USE) - CARSON	SHELL OIL PRODUCTS	778	0	0	
CA	6	019	64		12	1311	6	Oil/Gas	SHELL WESTERN E&P INC. - COALINGA		144	0	0	

State	State ID	County ID	Old Facility ID	New Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
CA	6	063	3		10	2421	3	Wood/Paper/Pulp	SIERRA-PACIFIC INDUST.		135	<100	24	49
CA	6	071			15	3241	4	Cement/Concrete	SOUTHWESTERN PORTLAND CEMENT C	SOUTHDOWN-VICTORVILLE PLANT	108	0	0	
CA	6	029	331		13	1311	6	Oil/Gas	SWEPI-WEST COAST DIVISION	AERA ENERGY LLC	775	<100	10	
CA	6	053	30		12	1311	6	Oil/Gas	TEXACO INC - SAN ARDO		100	<100	36	32
CA	6	037	800222		14	2819	5	Chemicals/Plastics	TEXACO REFINING & MARKETING IN - CARSON		156	<100	26	
CA	6	099	24		11	2033	7	Food	TRI-VALLEY GROWERS-#7		118	0	0	
CA	6	029	28		13	1474	10	Metals/Mining/Minerals	U.S. BORAX		523	<100	4	4
CA	6	037	800143		14	2819	5	Chemicals/Plastics	UNION CHEM CO (NSR USE ONLY) - WILMINGTON		209	0	0	
CA	6	071	7000003	500364	15	1061	10	Metals/Mining/Minerals	UNION MOLYCORP	MOLYCORP, UNION OIL	792	0	0	0
CA	6	029	299		13	1311	6	Oil/Gas	UNOCAL - BAKERSFIELD	UNOCAL OIL & GAS DIVISION	159	0	0	
CA	6	059	42775		14	1311	6	Oil/Gas	WEST NEWPORT OIL CO		297	<100	10	11
											47,173	38,090	37,784	38,212

Table 6
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂
 Colorado

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
100 tpy or More SO₂													
CO	8	101	0048	58	3312	10	Metals/Mining/Minerals	CFI		353	318	316	267
CO	8	001	0004	53	2911	6	Oil/Gas	COLO REFINING		632	664	526	545
CO	8	001	0003	53	2911	6	Oil/Gas	CONOCO DENVER		2,336	2,610	2,496	1,972
CO	8	059	0008	53	3221	8	Glass	COORS GLASS	ROCKY MOUNTAIN BOTTLE	159	221	234	255
CO	8	069	0002	52	3241	4	Cement/Concrete	HOLNAM LAPORTE	HOLCIM	623	623	375	404
CO	8	043	0001	58	3241	4	Cement/Concrete	HOLNAM PORTLAND	HOLCIM	4,069	3,615	3,219	3,288
CO	8	001	0097	53	4952	9	Misc.	METRO WASTEWATER		134	229	135	56
CO	8	013	0003	53	3241	4	Cement/Concrete	SOUTHWEST PORTLAND	CEMEX-LYONS PLT.	967	160	160	50
CO	8					1A	CHP	TRIGEN-COLORADO ENERGY CORP		2,675		3,708	2,583
CO	8	059	9	53	9611	9	Misc.	GENERAL SERVICES ADMINISTRATIO		409	0	0	0
CO	8	077	0001	55	2911	6	Oil/Gas	LANDMARK PETROLEUM		157	0	0	0
CO	8	045	24	51	1311	6	Oil/Gas	UNOCAL RETORT-PARACHUTE		679	0	0	0
CO	8	045	0025	51	1311	6	Oil/Gas	UNOCAL UPGRADE		177	0	0	0
CO	8	087	0001	53	2063	7	Food	WESTERN SUGAR 1		127	19	20	19
CO	8	123	0002	53	2063	7	Food	WESTERN SUGAR 2		320	0	<100	0
										13,817	8,459	11,189	9,439

Table 13 (continued)

Table 7
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂ in Either 1990 or 2000
 Idaho

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
100 tpy or More SO₂													
ID	16	005	0004	7	3241	4	Cement/Concrete	ASHGROVE CEMENT		790	200	200	1,327
ID	16	055			4911		Power	Avista					130
ID	16	011			2099	7	Food	Basic American Foods (Shelly)					149
ID	16	045			2611	3	Wood/Paper/Pulp	Boise Cascade - Emmett					252
ID	16	023	0001	3	9611	9	Misc.	DOE-INEEL		928	1,847	1,847	460
ID	16	077	0005	7	2819	5	Chemicals/Plastics	FMC	ASTARIS	2,976	4,994	4,994	0
ID	16	067		3	2099	7	Food	MAGIC VALLEY FOODS			118	118	
ID	16	029	0001	7	2819	5	Chemicals/Plastics	MONSANTO/P4 PRODUCTION		7,543	7,988	7,601	15,861
ID	16	027			4922	6	Natural Gas	Northwest Pipeline - Caldwell					235
ID	16	039			4922	6	Natural Gas	Northwest Pipeline - Mountain Home					575
ID	16	007			4922	6	Natural Gas	Northwest Pipeline - Pegram					154
ID	16	029		7	4922	6	Natural Gas	Northwest Pipeline - Soda Springs					1,307
ID	16	029	0003	7	2874	5	Chemicals/Plastics	NU WEST	AGRIUM	1,338	799	952	86
ID	16	055			4922	6	Natural Gas	PG&E Gas Transmission - Athol					172
ID	16	021			4922	6	Natural Gas	PG&E Gas Transmission - Eastport					144
ID	16	017			4922	6	Natural Gas	PG&E Gas Transmission - Sandpoint					340
ID	16	069	0001	3	2621	3	Wood/Paper/Pulp	POTLATCH		1,379	700	700	1,694
ID	16	065		?	8221	9	Misc.	RICKS COLLEGE			193	193	
ID	16	077	0006	7	2874	5	Chemicals/Plastics	SIMPLOT		7,181	2,637	2,637	543
ID	16	003			2611	1A	Wood/Paper/Pulp, Cogeneration	Tamarack Energy					117
ID	16	027	0010	3	2063	7	Food	TASCO (NAMPA)		1,008	1,660	1,787	1,697
ID	16	067	0001	3	2063	7	Food	TASCO (PAUL)		608	306	217	1,322
ID	16	083	0001	3	2063	7	Food	TASCO (TWIN)		599	1,364	1,053	1,053
ID	16	011		?		7	Food	Idaho Supreme		106			
ID	16	039	0001	3	9711	9	Misc.	MTN. HM. AFB		196	87	87	144
										24,652	22,893	22,386	27,762

Table 13 (continued)

Table 8
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂ in Either 1990 or 2000
 Nevada

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
Greater than 100 tpy SO₂													
NV	32	003	0003	22	3274	10	Metals/Mining/Minerals	CHEMSTAR APEX	CHEMICAL LIME CO	783		175	210
NV	32	019	0387	20	3241	4	Cement/Concrete	NEVADA CEMENT COMPANY	FERNLEY PLANT	360	340	346	172
NV	32	007	0261		3274	10	Metals/Mining/Minerals	GRAYMONT WESTERN US INC	PILOT PEAK	<100	136	235	249
NV	32	013	0451		1041	10	Metals/Mining/Minerals	SANTA FE PACIFIC GOLD CORP	TWIN CREEKS/NEWMONT MINING CORP				113
NV	32	023	0433	21	1499	10	Metals/Mining/Minerals	BASIC INC.(Now PREMIER CHEMICALS LLC)	PREMIER SERVICES (Gabbs Facility)	272	3	3	
NV	32	021	0863	21	9711	9	Misc.	HAWTHORNE ARMY		115	6	12	
NV	32	007		?		10	Metals/Mining	Independence Big Springs	ANGLO GOLD	166	0	0	
NV	32	003	0019	22	3339	10	Metals/Mining/Minerals	TITANIUM METALS		484	7	122	
										2,180	492	893	743

Table 13 (continued)

Table 9
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂ in Either 1990 or 2000
 New Mexico

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
100 tpy or More SO₂													
NM	35	017	0001	64	3331	2	Copper	PHELPS DODGE/CHINO MINES		28,058	14,784	15,685	11,420
NM	35	023	0003	64	3331	2	Copper	PHELPS DODGE/HIDALGO SMELTER		41,433	32,121	29,188	0
NM	35	015	0024	65	1311	6	Oil/Gas	AGAVE ENERGY/YATES PLANT		962	962	962	2,983
NM	35	015	0002	65	1311	6	Oil/Gas	ARCO PERMIAN/EMPIRE ABO GAS PLNT		700	565	565	565
NM	35	025	0004	65	1321	6	Oil/Gas	CONOCO/MALJAMAR GAS PLANT	MALJAMAR GAS PLANT	3,573	1,464	3,574	3,574
NM	35	045	0023	60	2911	6	Oil/Gas	GIANT INDUSTRIES/BLOOMFIELD REF		676	772	920	920
NM	35	031	0008	61	2911	6	Oil/Gas	GIANT REFINING/CINIZA REFINERY		1,346	1,115	1,779	1,779
NM	35	025	0044	65	1321	6	Oil/Gas	GPM GAS EUNICE GAS PLANT	VERSADO GAS PRODUCERS LLC	1,988	1,933	1,933	2,759
NM	35	015	0011	65	1321	6	Oil/Gas	GPM GAS/ARTESIA GAS PLANT	DUKE ENERGY/ARTESIA GAS PLANT	1,459	1,516	1,516	1,459
NM	35	015	0006	65	1311	6	Oil/Gas	GPM GAS/INDIAN HILLS AMINE PLNT		900	450	450	900
NM	35	025	0046	65	1311	6	Oil/Gas	GPM GAS/LEE GAS PLANT		818	0	818	818
NM	35	025	0035	65	1321	6	Oil/Gas	GPM GAS/LINAM RANCH GAS PLANT		274	1,302	1,302	1,304
NM	35	025	0007	65	1311	6	Oil/Gas	J.L. DAVIS GAS PROCESS/DENTON		385	890	891	1,158
NM	35	015	0008	65	1321	6	Oil/Gas	MARATHON OIL/INDIAN BSN GAS PLT		1,460	852	1,460	1,100
NM	35	015	0010	65	2911	6	Oil/Gas	NAVAJO REFINING/ARTESIA REFINERY		1,549	1,552	969	980
NM	35	015	0138	65	4911	1.1	Electricity	PAN ENERGY/BURTON FLATS GAS PLT	DUKE ENERGY/BURTON FLATS		196	196	246
NM	35	015	0285	65	4911	1.1	Electricity	PAN ENERGY/DAGGER DRAW GAS PLT	DUKE ENERGY/DAGGER DRAW		218	247	247
NM	35	025	0008	65	1321	6	Oil/Gas	SID RICHARDSON GASOLINE/JAL#3		1,206	540	540	1,206
NM	35	025	0055	65	1321	6	Oil/Gas	TEXACO/BUCKEYE GASOLINE PLANT	DYNERGY	2,329	2,490	2,933	0
NM	35	025	0052	65	1311	6	Oil/Gas	TEXACO/EUNICE NORTH GAS PLANT		673	1,076	1,346	673
NM	35	025	0051	65	1311	6	Oil/Gas	TEXACO/EUNICE SOUTH GAS PLANT		4,019	4,386	3,355	5,476
NM	35	015	0003	65	1311	6	Oil/Gas	TRANSWESTERN PIPE	DUKE ENERGY/HUBER GAS	221	231	231	231
NM	35	041	0001	63	1311	6	Oil/Gas	WARREN PETROLEUM/BLUITT GAS PLANT		270	3,348	582	270
NM	35	025	0060	65	1321	6	Oil/Gas	WARREN PETROLEUM/EUNICE GAS PLANT	EUNICE GAS PLANT	3,285	2,388	2,388	1,226
NM	35	025	0061	65	1311	6	Oil/Gas	WARREN PETROLEUM/MONUMENT PLANT	MONUMENT PLANT	1,460	1,709	1,432	1,432
NM	35	025	0063	65	1321	6	Oil/Gas	WARREN PETROLEUM/SAUNDERS PLANT	SAUNDERS PLANT	913	3,312	1,387	1,387
NM	35	025	0064	65	1321	6	Oil/Gas	WARREN PETROLEUM/VADA GAS PLANT		1,204	2,149	0	0
NM	35	045	0247	60	1311	6	Oil/Gas	WESTERN GAS PROCESSORS/SAN JUAN RVR		5,475	980	980	3,138
NM	35	025	0128	65	1311	6	Oil/Gas	CITATION/ANTELOPE RDG GAS PLANT		291	0	NA	
NM	35	025	0118	65	1311	6	Oil/Gas	CONOCO/BELL LAKE 2 WELL #6		129	0	NA	
NM	35	015	0125	65	1311	6	Oil/Gas	FEAGAN ENERGY/W DAGGER DRAW GAS PLT		240	0	NA	
NM	35	005	0050	65	1311	6	Oil/Gas	YATES PETROLEUM/PATHFINDER AMINE		227	57	57	
NM	35	001			3241	10	Metals/Mining/Minerals	RIO GRANDE PORTLAND CEMENT					1,103
										107,523	83,357	77,686	48,354

Table 13 (continued)

Table 10
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂ in Either 1990 or 2000
 Oregon

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
100 tpy or More SO₂													
OR	41	045	0002	?	2062	7	Food	Amalgamated Sugar Company, The		594	625	1,235	987
OR	41	009	1849	6	2621	3	Wood/Paper/Pulp	Boise Cascade Company		2,453	685	746	1,834
OR	41	041	0005	5	2631	3	Wood/Paper/Pulp	Georgia-Pacific West, Inc.		56	207	322	452
OR	41	019	0007	5		10	Metals/Mining	Glenbrook Nickel Company		7	174	113	0
OR	41	039	2125	5	3339	10	Metals/Mining/Minerals	Globe Metallurgical Inc.		204	200	228	197
OR	41	019	0036	5	2631	3	Wood/Paper/Pulp	International Paper		874	602	1,006	0
OR	41	007	0004	5	2621	3	Wood/Paper/Pulp	James River II, Inc.	Georgia- Pacific (Wauna Mill)	331	573	617	643
OR	41	065	0001	5	3334	10	Metals/Mining/Minerals	Northwest Aluminum Company, Inc.		423	448	375	397
OR	41	051	1876	5	3221	8	Glass	Owens-Brockway Glass Container, Inc.		103	169	116	108
OR	41	043	3501	5	2621	3	Wood/Paper/Pulp	Pope & Talbot Pulp, Inc.		485	133	92	293
OR	41	051	1851	5	3334	10	Metals/Mining/Minerals	Reynolds Metals Company		3,340	0	503	1,510
OR	41	071	6142	5	2621	3	Wood/Paper/Pulp	Smurfit Newsprint Corporation 2		592	368	461	519
OR	41	039	8866	5	2421	3	Wood/Paper/Pulp	Weyerhaeuser Company	SierraPine, Ltd.	119	201	127	0.4
OR	41	039	????	5		3		Weyerhaeuser Particle board		377	372	296	
OR	41	043	0471	5	2631	3	Wood/Paper/Pulp	Willamette Industries, Inc.		396	54	485	327
OR	41	039	8850	5	2631	3	Wood/Paper/Pulp	Collins Products LLC	Weyerhaeuser Co. (Particleboard)	202	0	3	1,721
OR	41	071	5034	5	4953	9	Misc.	Cascade Steel Rolling Mills, Inc.		116	29	29	
OR	41	009	2520	5	4911	1.1	Electricity	Enron Corp.		103	0	44	
OR	41	051	2028	5	5171	6	Oil/Gas	Gatx Terminals Corporation	Kinder Morgan Energy Partners, L.P	180	3	3	
OR	41	029	0041	5	2821	5	Chemicals/Plastics	Georgia-Pacific Resins, Inc.		1,008	0	<100	
OR	41	035	0013	6	2421	3	Wood/Paper/Pulp	J. Peterkort & Company	Collins Products LLC	189	3	3	
OR	41	047	5398	5	2621	3	Wood/Paper/Pulp	Ogden Martin Systems of Marion, Inc.	Covanta Marion, Inc.	127	18	22	
OR	41	051	2050	5	8221	9	Misc.	Oregon Health Sciences University		246	2	5	
										12,525	4,866	6,831	8,988

Table 13 (continued)

Table 11
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂ in Either 1990 or 2000
 Utah

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
100 tpy or More SO₂													
UT	49	035	0030	32	3331	2	Copper	Kennecott Utah Copper Corp.		26,829	1,556	762	937
UT	49	035	0004	32	2911	6	Oil/Gas	Amoco Petroleum Products		6,701	983	1,116	1,368
UT	49	049	0004	33	8221	9	Misc.	Brigham Young University		248	90	158	125
UT	49	027	0001	35	1081	10	Metals/Mining/Minerals	Brush Wellman Inc.		161	175	208	179
UT	49	011	0003	31	2911	6	Oil/Gas	Chevron Products Company		2,424	1,116	845	1,242
UT	49	027	-9902	35	3274	10	Metals/Mining/Minerals	Continental Lime Inc.	Graymont	115	297	275	331
UT	49	011	0008	31	2911	6	Oil/Gas	Flying J Incorporated		312	574	225	300
UT	49	049	0027	33	3312	10	Metals/Mining/Minerals	Geneva Steel		8,473	2,020	881	979
UT	49	029	0001	31	3241	4	Cement/Concrete	Holnam Incorporated		911	3	247	288
UT	49	011	0013	31	2911	6	Oil/Gas	Phillips 66 Company		5,672	864	862	601
UT	49	037	-9901	35	1311	6	Oil/Gas	Unocal Corporation	Tom Brown	1,575	1,391	1,478	1,252
UT	49	005		?	8221	9	Misc.	Utah State University			134	123	
UT	49	027	10327										
UT	49	035	10572		1021	1A	CHP	Kennecott Utah Copper Corp.		2,905		2,200	2,534
UT	49	007	10096		4911	1A	CHP	Sunnyside Cogeneration Associates		0	1,006	970	1,054
UT	49	043	10676		3295			Utelite Corporation					133
UT	49	035	0034	32	8062	9	Misc.	LDS Hospital		330	20	20	
UT	49	035	0063	32	8221	9	Misc.	University of Utah		238	7	3	
										56,894	10,235	10,373	11,323

Table 13 (continued)

Table 12
 Facility-Level SO₂ Emissions Data - 100 tpy or More SO₂ in Either 1990 or 2000
 Wyoming

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
100 tpy or More SO₂													
WY	56	029	0012	9	1311	6	Oil/Gas	AMOCO - ELK BASIN	HOWELL PETROLEUM - ELK BASIN	1,096	1,218	1,422	2,638
WY	56	041	0012	9	1311	6	Oil/Gas	AMOCO - WHITNEY CANYON		6,401	5,835	11,130	6,889
WY	56	041	0009	9	1311	6	Oil/Gas	CHEVRON - CARTER CREEK		1,537	1,165	3,330	2,096
WY	56	023	0013	8	1311	6	Oil/Gas	EXXON - SHUTE CREEK		1,078	1,999	2,015	1,383
WY					1311	6	Oil/Gas	EXXON BLACK CANYON DEHY & WELLFIELD					167
WY	56	037	0010	9	1474	10	Metals/Mining/Minerals	FMC - GRANGER (TEXAS GULF)		475	473	149	212
WY	56	037	48	9	1474	10	Metals/Mining/Minerals	FMC - GREEN RIVER		4,795	5,256	4,533	4,901
WY	56	023	0001	8	2999	6	Oil/Gas	FMC COKING PLANT	ASTARIS COKING PLANT	1,194	1,413	1,454	1,409
WY	56	021	0001	9	2911	6	Oil/Gas	FRONTIER OIL & REFINING - CHEYENNE		1,521	1,769	1,422	1,396
WY	56	037	0002	9	1474	10	Metals/Mining/Minerals	GENERAL CHEMICAL		4,196	5,651	4,538	5,000
WY	56	015	0001	9	2063	7	Food	HOLLY SUGAR - WORLAND & TORRINGTON		374	266	154	178
WY	56	043		9	4911	1.1	Electricity	INTERENERGY - HILAND	WILDHORSE ENERGY - HILAND	21	415	110	269
WY	56	017		9	1311	6	Oil/Gas	KCS MOUNTAIN RESOURCES - GOLDEN EAGLE			558	942	17
WY	56	003		9	1311	6	Oil/Gas	KCS MOUNTAIN RESOURCES - AINSWORTH			807	845	0
WY	56	013	0005	9	2819	5	Chemicals/Plastics	KOCH SULFUR PRODUCTS COMPANY		1,104	1,109	1,237	1,245
WY	56	013		9	2611	3	Wood/Paper/Pulp	LOUISIANA LAND & EXPLOR - LOST CABIN	BURLINGTON RESOURCES - LOST CABIN		4,547	1,336	1,700
WY	56	029	0007	9	1311	6	Oil/Gas	MARATHON GAS PLANT - OREGON BASIN		406	456	388	358
WY	56	017		9	1311	6	Oil/Gas	MARATHON OIL - MILL IRON			234	260	0
WY	56	037	0003	9	9999	6	Oil/Gas	SWEETWATER RESOURCES	P4 PRODUCTION - ROCK SPRINGS	933	663	642	633
WY	56	037	0022	9	2874	5	Chemicals/Plastics	SF PHOSPHATES, INC		578	1,154	1,971	1,790
WY	56	025	0001	9	2911	6	Oil/Gas	LITTLE AMERICA REFINING COMPANY	SINCLAIR - CASPER	1,899	1,629	1,305	1,458
WY	56	007	0011	9	2911	6	Oil/Gas	SINCLAIR @ SINCLAIR		5,917	3,990	3,524	3,407
WY	56	013		9	2911	6	Oil/Gas	SNYDER OIL - RIVERTON DOME	DEVON SFS - RIVERTON DOME	2,010		147	492
WY	56	037		9	1474	10	Metals/Mining/Minerals	SOLVAY MINERALS			101	72	52
WY	56	003	0012	9	1311	6	Oil/Gas	TEXAS-BYRON PLANT	BIG HORN GAS PROCESSING - BYRON	192	169	605	257
WY	56	037	0008	9	1311	6	Oil/Gas	UNION PAC - BRADY	RME PETROLEUM - BRADY	415	331	576	300
WY	56	001	0005	9	8221	9	Misc.	UW CENTRAL HEAT PLANT		152	154	223	193
WY	56	045	0001	9	2911	6	Oil/Gas	WYOMING REFINING CO	WYOMING REFINING - NEWCASTLE	630	930	804	876
WY	56	013	008	9	1311	6	Oil/Gas	DEVON SFS OPERATING CO.	BEAVER CREEK				831
WY	56	011	0003	9	1452	10	Metals/Mining/Minerals	AMERICAN COLLOID - WEST COLONY		212	80	53	
WY	56	025	0002	9	2911	6	Oil/Gas	AMOCO REFINERY		1,153	0	0	
WY	56	003	0001	9	1452	10	Metals/Mining/Minerals	BENTONITE CORPORATION	LOVELL	192	3	41	
WY	56	037	0014	9	1311	6	Oil/Gas	COLORADO INTERSTATE GAS - TABLE ROCK		522	20	39	
WY	56	003	0013	9	1311	6	Oil/Gas	MARATHON OIL COMPANY - GARLAND		257	7	10	
										39,260	42,402	45,277	40,147

Table 13 (continued)

Table 13
Utility Sector

State			1990	2000
AZ	CHOLLA	ARIZONA PUBLIC SERVIC	15,193	17,896
AZ	SAGUARO			145
AZ	IRVINGTON	TUCSON ELECTRIC	2,482	3,418
AZ	APACHE STATION	ARIZONA ELECTRIC POWER	7,043	6,569
AZ	NAVAJO	SALT RIVER PROJECT - NAVAJO	76,218	4,837
AZ	CORONADO	SALT RIVER PROJECT (CORONADO)	13,622	19,460
AZ	SPRINGERVILLE	TUCSON ELECTRIC (SPRINGERVILLE)	8,958	19,049
CA	CONTRA COSTA	PACIFIC GAS AND ELECTRIC CO. - ANTIOCH	437	8
CA	HUMBOLDT BAY	P G & E - HUMBOLDT BAY PLANT	237	103
CA	DUKE ENERGY MORRO BAY	P G & E - MORRO BAY	496	15
CA	DUKE ENERGY MOSS LANDING	P G & E - MOSS LANDING	1,217	23
CA	PITTSBURG	PACIFIC GAS & ELECTRIC CO. - PITTSBURGH	349	21
CA	POTRERO	PACIFIC GAS & ELECTRIC CO. - POT	217	3
CA	CABRILLO POWER I (ENCINA)	SDG & E CO - ENCINA PLANT	989	61
CA	DUKE ENERGY SOUTH BAY	SDG & E CO - SOUTH BAY PLANT	458	20
CA	EL SEGUNDO	SO CAL EDISON CO - EL SEGUNDO	345	4
CA	OCEAN VISTA (MANDALAY)	SCE-MANDALAY GEN STATION	213	8
CA	ORMOND BEACH	SCE-ORMOND BEACH GEN STATION	334	12
CA	HAYNES GEN STATION	LA CITY DWP HAYNES STM PLT (E	366	11
CO	W N CLARK	WEST PLAINS CLARK	1,376	1,530
CO	ARAPAHOE	PSCO ARAPAHOE	4,997	4,167
CO	CAMEO	PSCO CAMEO	2,259	3,313
CO	CHEROKEE	PSCO CHEROKEE	12,422	19,145
CO	COMANCHE	PSCO COMMANCHE	12,518	14,361
CO	VALMONT	PSCO VALMONT	3,007	4,506
CO	MARTIN DRAKE	COLO SPGS DRAKE	4,296	8,317
CO	HAYDEN	PSCO HAYDEN	11,277	2,298
CO	NUCLA	TRISTATES NUCLA	531	1,273
CO	CRAIG	TRI-STATE CRAIG	11,191	10,065
CO	PAWNEE	PSCO PAWNEE	10,724	14,678

State			1990	2000
CO	RAWHIDE	PLATTE RIVER RAWHIDE	1,025	849
CO	RAY D NIXON	COLO SPGS NIXON	6,094	5,220
NV	CLARK	NEVADA POWER COMPANY - CLARK	519	3
NV	REID GARDNER	NEVADA POWER COMPANY - REID GARDNER	1,349	2,977
NV	SUNRISE	NEVADA POWER COMPANY - SUNRISE	384	22
NV	FORT CHURCHILL	SIERRA PACIFIC POWER - FORT CHURCHILL	356	127
NV	TRACY	SIERRA PACIFIC POWER - TRACY	328	81
NV	MOHAVE	SOUTHERN CALIFORNIA EDISON - MOHAVE	40,324	42,750
NV	NORTH VALMY	SIERRA PACIFIC POWER - VALMY	7,335	7,240
NM	PREWITT ESCALANTE GENERATING	PLAINS ELECTRIC/ESCALANTE	692	1,385
NM	FOUR CORNERS	ARIZONA PUBLIC SERV/4 CORNERS	37,817	38,333
NM	SAN JUAN	PUBLIC SERV CO NM/SAN JUAN GEN	31,575	28,886
NM	RATON	RATON PUBLIC SERV/RATON POWER PLANT	387	386
OR	BOARDMAN	PORTLAND GENERAL ELECTRIC COMPANY	5,180	14,374
UT	CARBON	PACIFICORP - CARBON	5,883	4,604
UT	HUNTER (EMERY)	PACIFICORP - HUNTER	5,524	4,970
UT	INTERMOUNTAIN	INTERMOUNTAIN POWER SERVICE CORP.	3,503	3,474
UT	BONANZA	DESERET GENERATION & TRANSMISSION	584	1,038
UT	HUNTINGTON	PACIFICORP - HUNTINGTON	13,179	13,112
WY	NEIL SIMPSON I	BLACK HILLS - SIMPSON	779	1,046
WY	OSAGE	BLACK HILLS - OSAGE	3,008	2,618
WY	DAVE JOHNSTON	PACIFICORP - DAVE JOHNSTON	24,448	19,386
WY	NAUGHTON	PACIFICORP - NAUGHTON	25,807	21,533
WY	WYODAK	PACIFICORP - WYODAK	7,554	6,566
WY	LARAMIE RIVER	BASIN ELECTRIC - LARAMIE	7,009	11,418
WY	NEIL SIMPSON II			663
WY	JIM BRIDGER	PACIFICORP - JIM BRIDGER	28,453	20,734
			462,868	409,110

Table 14
Smelter

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
Smelter Sector													
AZ	4	007	0004	45	3331	2	Copper	ASARCO SMELTER - HAYDEN		29,814	33,124	22,077	16,753
AZ	4	021	0032	46	3331	2	Copper	BHP(Magma Metals)	BHP - San Manuel	15,900	16,678	10,409	0
AZ	4	007	0006	45	3331	2	Copper	CYPRUS MIAMI MINE		5,676	5,737	6,097	6,810
AZ	4	019	0040	46	1021	2	Copper	Cyprus Sierrita		800	548	<100	<100
NM	35	017	0001	64	3331	2	Copper	PHELPS DODGE/CHINO MINES		28,058	14,784	15,685	11,420
NM	35	023	0003	64	3331	2	Copper	PHELPS DODGE/HIDALGO SMELTER		41,433	32,121	29,188	0
UT	49	035	0030	32	3331	2	Copper	Kennecott Utah Copper Corp.		26,829	1,556	762	937
										148,510	104,549	84,218	35,920

Table 13 (continued)
Table 16 (continued)

Table 15
 CHP

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
CA	6	077	802		4931	1A	CHP	STOCKTON COGEN		197	210	191	218
CA	6	071	50001051	15	4911	1A	CHP	ACE COGENERATION		13	306	306	336
CA	6	071	900002	15	2819	1A	CHP	IMC CHEMICALS		184	178	178	178
CA	6	075	26		4931	1A	CHP	SOUTHERN ENERGY CALIFORNIA		0			151
CO	8					1A	CHP	TRIGEN-COLORADO ENERGY CORP		2,675		3,708	2,583
ID	16	003			2611	1A	Wood/Paper/ Pulp, Cogeneration	Tamarack Energy					117
UT	49	035	10572		1021	1A	CHP	Kennecott Utah Copper Corp.		2,905		2,200	2,534
UT	49	007	10096		4911	1A	CHP	Sunnyside Cogeneration Associates		0	1,006	970	1,054
										5,974	1,700	7,553	7,171

Table 13 (continued)
Table 16 (continued)

Table 16
Non-Utility

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
AZ	4	025	0011	41	3274	10	Metals/Mining/Minerals	CHEMICAL LIME (CHEMSTAR)		141	122	639	702
AZ	4	003	0003	47	3274	10	Metals/Mining/Minerals	Chemical Lime (Douglas)		212	364	724	742
AZ	4	019			3241	10	Metals/Mining/Minerals	Arizona Portland Cement					320
AZ	4	025		41	3241	4	Cement/Concrete	Phoenix Cement		<100	197	339	539
AZ	4	017	0007	43	2611	3	Wood/Paper/Pulp	STONE CONTAINER	ABITIBI	8,536	2,455	2,448	1,893
AZ	4	005	0001	42	2911	6	Oil/Gas	Intermountain Refining		803	0	0	0
CA	6	037	800012	14	2911	6	Oil/Gas	ARCO (NSR USE ONLY)	ARCO PRODUCTS CO	1,919	2,359	1,706	2,315
CA	6	037	47232	14	2999	6	Oil/Gas	ARCO CQC KILN INC		442	343	404	408
CA	6	037	106797	14	3221	8	Glass	BALL-FOSTER GLASS CONTAINER CO	SAINT-GOBAIN CONTAINER	<100	<100	166	174
CA	6	029	9	13	3241	4	Cement/Concrete	CAL PORTLAND CEMENT CO.		429	245	245	245
CA	6	029	20	13	3241	4	Cement/Concrete	CALAVERAS CEMENT CO		286	286	286	286
CA	6	083	12	?	3295	10	Missing	CELITE CORPORATION		14	424	465	678
CA	6	037	800030	14	2911	6	Oil/Gas	CHEVRON U.S.A. INC (EIS USE) - EL SEGUNDO	CHEVRON PRODUCTS CO.	833	1,795	938	1,208
CA	6	013	10	11	2911	6	Oil/Gas	CHEVRON USA INC - RICHMOND	CHEVRON PRODUCTS COMPANY	1,291	1,018	1,413	1,244
CA	6	029	1128	13	4612	6	Oil/Gas	CHEVRON-BITTERWATER PUMP STN.		166	<100	138	171
CA	6	095	15	11	2911	6	Oil/Gas	EXXON CORPORATION - BENICIA		4,922	6,042	5,779	5,779
CA	6	099	1662	11	3221	8	Glass	GALLO GLASS CO		61	271	269	440
CA	6	013	23	11	2819	5	Chemicals/Plastics	GENERAL CHEMICAL CORPORATION		206	201	213	207
CA	6	019	598	12	3211	8	Glass	GUARDIAN INDUSTRIES CORP.		546	433	406	479
CA	6	085	17	11	3241	4	Cement/Concrete	KAISER CEMENT CORPORATION	HANSON PERMANENTE CEMENT	474	464	416	474
CA	6	029	37	13	2911	6	Oil/Gas	KERN OIL & REFINING CO.		319	425	443	364
CA	6	087	11	11	3241	4	Cement/Concrete	LONE STAR INDUST CEMENT PLANT	RMC PACIFIC MATERIALS	250	286	393	314
CA	6	039	801	12	3221	8	Glass	MADERA GLASS COMPANY		108	170	190	104
CA	6	045	23	10	2499	3	Wood/Paper/Pulp	MASONITE HARDBRD DIV		102	102	102	102
CA	6	017	7	11	2421	3	Wood/Paper/Pulp	MICH-CAL LBR CO	SIERRA PACIFIC INDUSTRIES	271	271	271	10
CA	6	071	7000000	15	3241	4	Cement/Concrete	MITSUBISHI CEMENT		28	574	946	298
CA	6	037	800089	14	2911	6	Oil/Gas	MOBIL OIL CORP (EIS USE) - TORRANCE	MOBIL OIL CORP (EIS USE)	256	807	725	1,018
CA	6	077	593	11	3221	8	Glass	OWENS ILLINOIS	OWENS-BROCKWAY GLASS CONTAINER	319	285	218	248
CA	6	037	7427	14	3221	8	Glass	OWENS-BROCKWAY GLASS CONTAINER - VERNON		193	323	280	435
CA	6	013	32	11	2911	6	Oil/Gas	PACIFIC REFINING COMPANY	NOW PLANT ID 11587	278	290	0	
CA	6	019	948	12	3211	8	Glass	PPG IND. INC	PPG INDUSTRIES		159	159	94
CA	6	037	800131	14	2819	5	Chemicals/Plastics	RHONE-POULENC BASIC CHEMICALS - CARSON	RHODIA INC.	319	167	337	242
CA	6	013	20	11	2819	5	Chemicals/Plastics	RHONE-POULENC BASIC CHEMICALS - MARTINEZ	RHONE-POULENC INC	289	443	242	276
CA	6	071	1200003	15	3241	4	Cement/Concrete	RIVERSIDE CEMENT COMPANY		0	527	527	164
CA	6	029	25	13	2911	6	Oil/Gas	SAN JOAQUIN REFINERY	SAN JOAQUIN REFINING COMPANY	337	313	138	
CA	6	029	1141	13	1311	6	Oil/Gas	SANTA FE ENERGY	TEXACO CA INC	1,539	855	2,050	2,050

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
CA	6	013	11	11	2911	6	Oil/Gas	SHELL OIL COMPANY - MARTINEZ	MARTINEZ REFINING COMPANY	2,790	2,518	2,374	1,159
CA	6	023	21	10	2611	3	Wood/Paper/Pulp	SIMPSON PAPER COMPANY	SIMPSON PAPER CO	1,021	315	315	
CA	6	029	1129	13	1311	6	Oil/Gas	TEXACO EXPLOR & PROD INC		1	89	112	63
CA	6	037	800223	14	2911	6	Oil/Gas	TEXACO REFINING & MARKETING IN - WILMINGTON		546	727	590	953
CA	6	029	33	13	2911	6	Oil/Gas	TEXACO REFINING AND MARKETING - BAKERSFIELD	EQUILON ENTERPRISES LLC	471	190	94	72
CA	6	013	12758	11	2911	6	Oil/Gas	TOSCO CORP AVON REFINERY		7,661	4,459	5,422	5,422
CA	6	037	800026	14	2911	6	Oil/Gas	ULTRAMAR INC (NSR USE ONLY)		341	959	669	620
CA	6	013	22	11	2999	6	Oil/Gas	UNION CHEMICALS - RODEO	TOSCO REFINING COMPANY	1,606	1,535	1,474	1,728
CA	6	037	800144	14	2911	6	Oil/Gas	UNION OIL CO OF CAL (NSR USE O	TOSCO REFINING COMPANY	724	1,005	806	806
CA	6	001	83	11	3321	10	Metals/Mining/Minerals	UNITED STATES PIPE & FOUNDRY C		127	122	111	147
CA	6	027	7	12	1061	10	Metals/Mining/Minerals	UNITED STATES TUNGSTEN CORP.	AVOCET TUNGSTEN	123	123	123	123
CA	6	079	4	13	2911	6	Oil/Gas	UNOCAL CARBON	TOSCO SANTA MARIA REFINERY				
CA	6	079	4	13	2911	6	Oil/Gas	UNOCAL CHEM DIV-UNOCAL CORP - ARROYO GR	TOSCO	3,034	3,950	0	
CA	6	013	16	11	2911	6	Oil/Gas	UNOCAL CORPORATION - RODEO	TOSCO RODEO REFINERY	584	728	675	615
CA	6	037		14	2911	6	Oil/Gas	UNOCAL REFINING & MARKETING CO	TOSCO REFINING (L.A.)	0	343	508	587
CA	6	079	13	13	2911	6	Oil/Gas	UNOCAL- SANTA MARIA REFINERY	TOSCO SANTA MARIA REFINERY	647	225	3,501	3,727
CA	6	113	25		8221			UC-DAVIS					289
CA	6	089	23		2611	3	Wood/Paper/Pulp	SHASTA PAPER-ANDERSON					216
CA	6	071	100005	15	3241	4		CEMEX-CALIFORNIA CEMENT					427
CA	6	013	10834	11	3299			PACIFIC CUSTOM MATERIALS					108
CA	6	037	42333	14	3471	10	Metals/Mining/Minerals	AMERICAN NATIONAL CAN CO		149	0	0	
CA	6	001	2086	11	3221	8	Glass	ANCHOR GLASS CONTAINER CORPORA		119	0	0	
CA	6	029	206	13	1311	6	Oil/Gas	BERRY PETROLEUM COMPANY		237	0	0	0
CA	6	013	33	11	2062	7	Food	CALIFORNIA & HAWAIIAN SUGAR CO		189	0	0	
CA	6	071	800181	15	3273	4	Cement/Concrete	CALIFORNIA PORTLAND CEMENT CO		112	<100	13	12
CA	6	019	71	12	1311	6	Oil/Gas	CHEVRON USA INC. - COALINGA		809	0	0	
CA	6	029	312	13	4612	6	Oil/Gas	CHEVRON-RIO BRAVO STATION		101	0	0	
CA	6	107	28	12	2023	7	Food	DAIRYMANS COOP CREAMERY		212	0	0	
CA	6	037	800047	14	2911	6	Oil/Gas	FLETCHER OIL & REF CO (EIS USE		107	0	0	
CA	6	013	3257	11	2611	3	Wood/Paper/Pulp	GAYLORD CONTAINER CORPORATION		263	0	0	
CA	6	037	800184	14	2911	6	Oil/Gas	GOLDEN WEST REF CO (EIS USE)		232	0	0	
CA	6	099	17	11	2033	7	Food	HUNT-WESSON FDS		174	0	0	
CA	6	005	21	11	4911	1.1	Electricity	IONE ENERGY COMPANY		239	0	0	
CA	6	077	767	11	2879	5	Chemicals/Plastics	J R SIMPLOT CO.		1,389	102	89	89
CA	6	023	37	10	2611	3	Wood/Paper/Pulp	LOUISIANA-PACIFIC CORP.		302	<100	42	42
CA	6	029	272	13	1311	6	Oil/Gas	M H WHITTIER	SENECA RESOURCES	347	0	0	
CA	6	053	19	12	1311	6	Oil/Gas	MOBIL OIL CORP - SAN ARDO	AERA ENERGY	304	0	1	6
CA	6	053	12	12	3274	10	Metals/Mining/Minerals	NATIONAL REFRACTORIES&MINERALS	CHEMICAL LIME CO	243	<100	69	82
CA	6	077	191	11	2621	3	Wood/Paper/Pulp	NEWARK SIERRA PAPERBOARD CORP.		270	0	0	
CA	6	001	30	11	3221	8	Glass	OWENS-BROCKWAY GLASS CONTAINER - OAKLAND		122	128	64	57
CA	6	037	800103	14	2911	6	Oil/Gas	POWERINE OIL CO (EIS USE)		196	0	1	1
CA	6	047	22	12	2033	7	Food	RAGU FOODS	LIPTON	202	0	0	
CA	6	029	1135	13	1311	6	Oil/Gas	SHELL KERNRIDGE	AERA ENERGY LLC	294	<100	82	55
CA	6	037	800115	14	2911	6	Oil/Gas	SHELL OIL CO (EIS USE) - CARSON	SHELL OIL PRODUCTS	778	0	0	

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
CA	6	019	64	12	1311	6	Oil/Gas	SHELL WESTERN E&P INC. - COALINGA		144	0	0	
CA	6	063	3	10	2421	3	Wood/Paper/Pulp	SIERRA-PACIFIC INDUST.		135	<100	24	49
CA	6	071		15	3241	4	Cement/Concrete	SOUTHWESTERN PORTLAND CEMENT C	SOUTHDOWN-VICTORVILLE PLANT	108	0	0	
CA	6	029	331	13	1311	6	Oil/Gas	SWEPI-WEST COAST DIVISION	AERA ENERGY LLC	775	<100	10	
CA	6	053	30	12	1311	6	Oil/Gas	TEXACO INC - SAN ARDO		100	<100	36	32
CA	6	037	800222	14	2819	5	Chemicals/Plastics	TEXACO REFINING & MARKETING IN - CARSON		156	<100	26	
CA	6	099	24	11	2033	7	Food	TRI-VALLEY GROWERS-#7		118	0	0	
CA	6	029	28	13	1474	10	Metals/Mining/Minerals	U.S. BORAX		523	<100	4	4
CA	6	037	800143	14	2819	5	Chemicals/Plastics	UNION CHEM CO (NSR USE ONLY) - WILMINGTON		209	0	0	
CA	6	071	500364	15	1061	10	Metals/Mining/Minerals	UNION MOLYCORP	MOLYCORP, UNION OIL	792	0	0	0
CA	6	029	299	13	1311	6	Oil/Gas	UNOCAL - BAKERSFIELD	UNOCAL OIL & GAS DIVISION	159	0	0	
CA	6	059	42775	14	1311	6	Oil/Gas	WEST NEWPORT OIL CO		297	<100	10	11
CO	8	101	0048	58	3312	10	Metals/Mining/Minerals	CFI		353	318	316	267
CO	8	001	0004	53	2911	6	Oil/Gas	COLO REFINING		632	664	526	545
CO	8	001	0003	53	2911	6	Oil/Gas	CONOCO DENVER		2,336	2,610	2,496	1,972
CO	8	059	0008	53	3221	8	Glass	COORS GLASS	ROCKY MOUNTAIN BOTTLE	159	221	234	255
CO	8	069	0002	52	3241	4	Cement/Concrete	HOLNAM LAPORTE	HOLCIM	623	623	375	404
CO	8	043	0001	58	3241	4	Cement/Concrete	HOLNAM PORTLAND	HOLCIM	4,069	3,615	3,219	3,288
CO	8	001	0097	53	4952	9	Misc.	METRO WASTEWATER		134	229	135	56
CO	8	013	0003	53	3241	4	Cement/Concrete	SOUTHWEST PORTLAND	CEMEX-LYONS PLT.	967	160	160	50
CO	8	059	9	53	9611	9	Misc.	GENERAL SERVICES ADMINISTRATIO		409	0	0	0
CO	8	077	0001	55	2911	6	Oil/Gas	LANDMARK PETROLEUM		157	0	0	0
CO	8	045	24	51	1311	6	Oil/Gas	UNOCAL RETORT-PARACHUTE		679	0	0	0
CO	8	045	0025	51	1311	6	Oil/Gas	UNOCAL UPGRADE		177	0	0	0
CO	8	087	0001	53	2063	7	Food	WESTERN SUGAR 1		127	19	20	19
CO	8	123	0002	53	2063	7	Food	WESTERN SUGAR 2		320	0	<100	0
ID	16	005	0004	7	3241	4	Cement/Concrete	ASHGROVE CEMENT		790	200	200	1,327
ID	16	055			4911		Power	Avista					130
ID	16	011			2099	7	Food	Basic American Foods (Shelly)					149
ID	16	045			2611	3	Wood/Paper/Pulp	Boise Cascade - Emmett					252
ID	16	023	0001	3	9611	9	Misc.	DOE-INEEL		928	1,847	1,847	460
ID	16	077	0005	7	2819	5	Chemicals/Plastics	FMC	ASTARIS	2,976	4,994	4,994	0
ID	16	067		3	2099	7	Food	MAGIC VALLEY FOODS			118	118	
ID	16	029	0001	7	2819	5	Chemicals/Plastics	MONSANTO/P4 PRODUCTION		7,543	7,988	7,601	15,861
ID	16	027			4922	6	Natural Gas	Northwest Pipeline - Caldwell					235
ID	16	039			4922	6	Natural Gas	Northwest Pipeline - Mountain Home					575
ID	16	007			4922	6	Natural Gas	Northwest Pipeline - Pegram					154
ID	16	029		7	4922	6	Natural Gas	Northwest Pipeline - Soda Springs					1,307
ID	16	029	0003	7	2874	5	Chemicals/Plastics	NU WEST	AGRIUM	1,338	799	952	86
ID	16	055			4922	6	Natural Gas	PG&E Gas Transmission - Athol					172
ID	16	021			4922	6	Natural Gas	PG&E Gas Transmission - Eastport					144
ID	16	017			4922	6	Natural Gas	PG&E Gas Transmission - Sandpoint					340
ID	16	069	0001	3	2621	3	Wood/Paper/Pulp	POTLATCH		1,379	700	700	1,694
ID	16	065		?	8221	9	Misc.	RICKS COLLEGE			193	193	
ID	16	077	0006	7	2874	5	Chemicals/Plastics	SIMPLOT		7,181	2,637	2,637	543
ID	16	027	0010	3	2063	7	Food	TASCO (NAMPA)		1,008	1,660	1,787	1,697

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
ID	16	067	0001	3	2063	7	Food	TASCO (PAUL)		608	306	217	1,322
ID	16	083	0001	3	2063	7	Food	TASCO (TWIN)		599	1,364	1,053	1,053
ID	16	011		?		7	Food	Idaho Supreme		106			
ID	16	039	0001	3	9711	9	Misc.	MTN. HM. AFB		196	87	87	144
NV	32	003	0003	22	3274	10	Metals/Mining/Minerals	CHEMSTAR APEX	CHEMICAL LIME CO	783		175	210
NV	32	019	0387	20	3241	4	Cement/Concrete	NEVADA CEMENT COMPANY	FERNLEY PLANT	360	340	346	172
NV	32	007	0261		3274	10	Metals/Mining/Minerals	GRAYMONT WESTERN US INC	PILOT PEAK	<100	136	235	249
NV	32	013	0451		1041	10	Metals/Mining/Minerals	SANTA FE PACIFIC GOLD CORP	TWIN CREEKS/NEWMONT MINING CORP				113
NV	32	023	0433	21	1499	10	Metals/Mining/Minerals	BASIC INC.(Now PREMIER CHEMICALS LLC)	PREMIER SERVICES (Gabbs Facility)	272	3	3	
NV	32	021	0863	21	9711	9	Misc.	HAWTHORNE ARMY		115	6	12	
NV	32	007		?		10	Metals/Mining	Independence Big Springs	ANGLO GOLD	166	0	0	
NV	32	003	0019	22	3339	10	Metals/Mining/Minerals	TITANIUM METALS		484	7	122	
NM	35	015	0024	65	1311	6	Oil/Gas	AGAVE ENERGY/YATES PLANT		962	962	962	2,983
NM	35	015	0002	65	1311	6	Oil/Gas	ARCO PERMIAN/EMPIRE ABO GAS PLNT		700	565	565	565
NM	35	025	0004	65	1321	6	Oil/Gas	CONOCO/MALJAMAR GAS PLANT	MALJAMAR GAS PLANT	3,573	1,464	3,574	3,574
NM	35	045	0023	60	2911	6	Oil/Gas	GIANT INDUSTRIES/BLOOMFIELD REF		676	772	920	920
NM	35	031	0008	61	2911	6	Oil/Gas	GIANT REFINING/CINIZA REFINERY		1,346	1,115	1,779	1,779
NM	35	025	0044	65	1321	6	Oil/Gas	GPM GAS EUNICE GAS PLANT	VERSADO GAS PRODUCERS LLC	1,988	1,933	1,933	2,759
NM	35	015	0011	65	1321	6	Oil/Gas	GPM GAS/ARTESIA GAS PLANT	DUKE ENERGY/ARTESIA GAS PLANT	1,459	1,516	1,516	1,459
NM	35	015	0006	65	1311	6	Oil/Gas	GPM GAS/INDIAN HILLS AMINE PLNT		900	450	450	900
NM	35	025	0046	65	1311	6	Oil/Gas	GPM GAS/LEE GAS PLANT		818	0	818	818
NM	35	025	0035	65	1321	6	Oil/Gas	GPM GAS/LINAM RANCH GAS PLANT		274	1,302	1,302	1,304
NM	35	025	0007	65	1311	6	Oil/Gas	J.L. DAVIS GAS PROCESS/DENTON		385	890	891	1,158
NM	35	015	0008	65	1321	6	Oil/Gas	MARATHON OIL/INDIAN BSN GAS PLT		1,460	852	1,460	1,100
NM	35	015	0010	65	2911	6	Oil/Gas	NAVAJO REFINING/ARTESIA REFINERY		1,549	1,552	969	980
NM	35	015	0138	65	4911	1.1	Electricity	PAN ENERGY/BURTON FLATS GAS PLT	DUKE ENERGY/BURTON FLATS		196	196	246
NM	35	015	0285	65	4911	1.1	Electricity	PAN ENERGY/DAGGER DRAW GAS PLT	DUKE ENERGY/DAGGER DRAW		218	247	247
NM	35	025	0008	65	1321	6	Oil/Gas	SID RICHARDSON GASOLINE/JAL#3		1,206	540	540	1,206
NM	35	025	0055	65	1321	6	Oil/Gas	TEXACO/BUCKEYE GASOLINE PLANT	DYNERGY	2,329	2,490	2,933	0
NM	35	025	0052	65	1311	6	Oil/Gas	TEXACO/EUNICE NORTH GAS PLANT		673	1,076	1,346	673
NM	35	025	0051	65	1311	6	Oil/Gas	TEXACO/EUNICE SOUTH GAS PLANT		4,019	4,386	3,355	5,476
NM	35	015	0003	65	1311	6	Oil/Gas	TRANSWESTERN PIPE	DUKE ENERGY/HUBER GAS	221	231	231	231
NM	35	041	0001	63	1311	6	Oil/Gas	WARREN PETROLEUM/BLUITT GAS PLANT		270	3,348	582	270
NM	35	025	0060	65	1321	6	Oil/Gas	WARREN PETROLEUM/EUNICE GAS PLANT	EUNICE GAS PLANT	3,285	2,388	2,388	1,226
NM	35	025	0061	65	1311	6	Oil/Gas	WARREN PETROLEUM/MONUMENT PLANT	MONUMENT PLANT	1,460	1,709	1,432	1,432
NM	35	025	0063	65	1321	6	Oil/Gas	WARREN PETROLEUM/SAUNDERS PLANT	SAUNDERS PLANT	913	3,312	1,387	1,387
NM	35	025	0064	65	1321	6	Oil/Gas	WARREN PETROLEUM/VADA GAS PLANT		1,204	2,149	0	0
NM	35	045	0247	60	1311	6	Oil/Gas	WESTERN GAS PROCESSORS/SAN JUAN RVR		5,475	980	980	3,138
NM	35	025	0128	65	1311	6	Oil/Gas	CITATION/ANTELOPE RDG GAS PLANT		291	0	NA	
NM	35	025	0118	65	1311	6	Oil/Gas	CONOCO/BELL LAKE 2 WELL #6		129	0	NA	
NM	35	015	0125	65	1311	6	Oil/Gas	FEAGAN ENERGY/W DAGGER DRAW GAS PLT		240	0	NA	
NM	35	005	0050	65	1311	6	Oil/Gas	YATES PETROLEUM/PATHFINDER AMINE		227	57	57	
NM	35	001			3241	10		RIO GRANDE PORTLAND CEMENT					1,103
OR	41	045	0002	?	2062	7	Food	Amalgamated Sugar Company, The		594	625	1,235	987

State	State ID	County ID	Facility ID	IAS Region	SIC	MTF Sector	Sector Description	Facility Name (1990)	Current Facility Name (if different from 1990)	SO ₂ tpy 1990	SO ₂ tpy 1996	SO ₂ tpy 1998	SO ₂ tpy 2000
OR	41	009	1849	6	2621	3	Wood/Paper/Pulp	Boise Cascade Company		2,453	685	746	1,834
OR	41	041	0005	5	2631	3	Wood/Paper/Pulp	Georgia-Pacific West, Inc.		56	207	322	452
OR	41	019	0007	5		10	Metals/Mining	Glenbrook Nickel Company		7	174	113	0
OR	41	039	2125	5	3339	10	Metals/Mining/Minerals	Globe Metallurgical Inc.		204	200	228	197
OR	41	019	0036	5	2631	3	Wood/Paper/Pulp	International Paper		874	602	1,006	0
OR	41	007	0004	5	2621	3	Wood/Paper/Pulp	James River II, Inc.	Georgia-Pacific (Wauna Mill)	331	573	617	643
OR	41	065	0001	5	3334	10	Metals/Mining/Minerals	Northwest Aluminum Company, Inc.		423	448	375	397
OR	41	051	1876	5	3221	8	Glass	Owens-Brockway Glass Container, Inc.		103	169	116	108
OR	41	043	3501	5	2621	3	Wood/Paper/Pulp	Pope & Talbot Pulp, Inc.		485	133	92	293
OR	41	051	1851	5	3334	10	Metals/Mining/Minerals	Reynolds Metals Company		3,340	0	503	1,510
OR	41	071	6142	5	2621	3	Wood/Paper/Pulp	Smurfit Newsprint Corporation 2		592	368	461	519
OR	41	039	8866	5	2421	3	Wood/Paper/Pulp	Weyerhaeuser Company	SierraPine, Ltd.	119	201	127	0.4
OR	41	039	????	5		3		Weyerhaeuser Particle board		377	372	296	
OR	41	043	0471	5	2631	3	Wood/Paper/Pulp	Willamette Industries, Inc.		396	54	485	327
OR	41	039	8850	5	2631	3	Wood/Paper/Pulp	Collins Products LLC	Weyerhaeuser Co. (Particleboard)	202	0	3	1,721
OR	41	071	5034	5	4953	9	Misc.	Cascade Steel Rolling Mills, Inc.		116	29	29	
OR	41	009	2520	5	4911	1.1	Electricity	Enron Corp.		103	0	44	
OR	41	051	2028	5	5171	6	Oil/Gas	Gatx Terminals Corporation	Kinder Morgan Energy Partners, L.P	180	3	3	
OR	41	029	0041	5	2821	5	Chemicals/Plastics	Georgia-Pacific Resins, Inc.		1,008	0	<100	
OR	41	035	0013	6	2421	3	Wood/Paper/Pulp	J. Peterkort & Company	Collins Products LLC	189	3	3	
OR	41	047	5398	5	2621	3	Wood/Paper/Pulp	Ogden Martin Systems of Marion, Inc.	Covanta Marion, Inc.	127	18	22	
OR	41	051	2050	5	8221	9	Misc.	Oregon Health Sciences University		246	2	5	
UT	49	035	0004	32	2911	6	Oil/Gas	Amoco Petroleum Products		6,701	983	1,116	1,368
UT	49	049	0004	33	8221	9	Misc.	Brigham Young University		248	90	158	125
UT	49	027	0001	35	1081	10	Metals/Mining/Minerals	Brush Wellman Inc.		161	175	208	179
UT	49	011	0003	31	2911	6	Oil/Gas	Chevron Products Company		2,424	1,116	845	1,242
UT	49	027	-9902	35	3274	10	Metals/Mining/Minerals	Continental Lime Inc.	Graymont	115	297	275	331
UT	49	011	0008	31	2911	6	Oil/Gas	Flying J Incorporated		312	574	225	300
UT	49	049	0027	33	3312	10	Metals/Mining/Minerals	Geneva Steel		8,473	2,020	881	979
UT	49	029	0001	31	3241	4	Cement/Concrete	Holnam Incorporated		911	3	247	288
UT	49	011	0013	31	2911	6	Oil/Gas	Phillips 66 Company		5,672	864	862	601
UT	49	037	-9901	35	2911	6	Oil/Gas	Unocal Corporation		1,575	1,391	1,478	1,252
UT	49	005		?	8221	9	Misc.	Utah State University			134	123	
UT	49	027	10327										
UT	49	043	10676		3295			Utelite Corporation					133
UT	49	035	0034	32	8062	9	Misc.	LDS Hospital		330	20	20	
UT	49	035	0063	32	8221	9	Misc.	University of Utah		238	7	3	
WY	56	029	0012	9	1311	6	Oil/Gas	AMOCO - ELK BASIN	HOWELL PETROLEUM - ELK BASIN	1,096	1,218	1,422	2,638
WY	56	041	0012	9	1311	6	Oil/Gas	AMOCO - WHITNEY CANYON		6,401	5,835	11,130	6,889
WY	56	041	0009	9	1311	6	Oil/Gas	CHEVRON - CARTER CREEK		1,537	1,165	3,330	2,096
WY	56	023	0013	8	1311	6	Oil/Gas	EXXON - SHUTE CREEK		1,078	1,999	2,015	1,383
WY					1311	6	Oil/Gas	EXXON BLACK CANYON DEHY & WELLFIELD					167
WY	56	037	0010	9	1474	10	Metals/Mining/Mineral	FMC - GRANGER (TEXAS GULF)		475	473	149	212

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WY	56	037	48	9	1474	10	Metals/Mining/Minerals	FMC - GREEN RIVER		4,795	5,256	4,533	4,901
WY	56	023	0001	8	2999	6	Oil/Gas	FMC COKING PLANT	ASTARIS COKING PLANT	1,194	1,413	1,454	1,409
WY	56	021	0001	9	2911	6	Oil/Gas	FRONTIER OIL & REFINING - CHEYENNE		1,521	1,769	1,422	1,396
WY	56	037	0002	9	1474	10	Metals/Mining/Minerals	GENERAL CHEMICAL		4,196	5,651	4,538	5,000
WY	56	015	0001	9	2063	7	Food	HOLLY SUGAR - WORLAND & TORRINGTON		374	266	154	178
WY	56	043		9	4911	1.1	Electricity	INTERENERGY - HILAND	WILDHORSE ENERGY - HILAND	21	415	110	269
WY	56	017		9	1311	6	Oil/Gas	KCS MOUNTAIN RESOURCES - GOLDEN EAGLE			558	942	17
WY	56	003		9	1311	6	Oil/Gas	KCS MOUNTAIN RESOURCES - AINSWORTH			807	845	0
WY	56	013	0005	9	2819	5	Chemicals/Plastics	KOCH SULFUR PRODUCTS COMPANY		1,104	1,109	1,237	1,245
WY	56	013		9	2611	3	Wood/Paper/Pulp	LOUISIANA LAND & EXPLOR - LOST CABIN	BURLINGTON RESOURCES - LOST CABIN		4,547	1,336	1,700
WY	56	029	0007	9	1311	6	Oil/Gas	MARATHON GAS PLANT - OREGON BASIN		406	456	388	358
WY	56	017		9	1311	6	Oil/Gas	MARATHON OIL - MILL IRON			234	260	0
WY	56	037	0003	9	-9999	6	Oil/Gas	SWEETWATER RESOURCES	P4 PRODUCTION - ROCK SPRINGS	933	663	642	633
WY	56	037	0022	9	2874	5	Chemicals/Plastics	SF PHOSPHATES, INC		578	1,154	1,971	1,790
WY	56	025	0001	9	2911	6	Oil/Gas	LITTLE AMERICA REFINING COMPANY	SINCLAIR - CASPER	1,899	1,629	1,305	1,458
WY	56	007	0011	9	2911	6	Oil/Gas	SINCLAIR @ SINCLAIR		5,917	3,990	3,524	3,407
WY	56	013		9	2911	6	Oil/Gas	SNYDER OIL - RIVERTON DOME	DEVON SFS - RIVERTON DOME	2,010		147	492
WY	56	037		9	1474	10	Metals/Mining/Minerals	SOLVAY MINERALS			101	72	52
WY	56	003	0012	9	1311	6	Oil/Gas	TEXAS-BYRON PLANT	BIG HORN GAS PROCESSING - BYRON	192	169	605	257
WY	56	037	0008	9	1311	6	Oil/Gas	UNION PAC - BRADY	RME PETROLEUM - BRADY	415	331	576	300
WY	56	001	0005	9	8221	9	Misc.	UW CENTRAL HEAT PLANT		152	154	223	193
WY	56	045	0001	9	2911	6	Oil/Gas	WYOMING REFINING CO	WYOMING REFINING - NEWCASTLE	630	930	804	876
WY	56	013	008	9	1311	6	Oil/Gas	DEVON SFS OPERATING CO.	BEAVER CREEK				831
WY	56	011	0003	9	1452	10	Metals/Mining/Minerals	AMERICAN COLLOID - WEST COLONY		212	80	53	
WY	56	025	0002	9	2911	6	Oil/Gas	AMOCO REFINERY		1,153	0	0	
WY	56	003	0001	9	1452	10	Metals/Mining/Minerals	BENTONITE CORPORATION	LOVELL	192	3	41	
WY	56	037	0014	9	1311	6	Oil/Gas	COLORADO INTERSTATE GAS - TABLE ROCK		522	20	39	
WY	56	003	0013	9	1311	6	Oil/Gas	MARATHON OIL COMPANY - GARLAND		257	7	10	
										211,422	164,973	163,582	169,637