

# Executive Summary Report

## SMOG CHECK Statewide

Year 2006

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	9,360,649	1,202,069	12.84%
Total	11,083,946	1,611,651	14.54%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	7,947,597	84.90%	1,413,052	15.10%
Total	9,174,243	82.77%	1,909,703	17.23%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	4,508,546	84.93%	800,162	15.07%
Total	5,258,484	83.57%	1,033,549	16.43%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	225,970	2.41%
All Emissions	725,986	7.76%
All Visual	133,819	1.43%
All Functional	694,906	7.42%
OBDII	310,015	3.31%
Overall	1,202,069	12.84%

### 5. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	2,475,337	2,178,209
Directed Vehicles	2,833,371	2,330,337
Total	5,308,708	4,508,546

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	496,737	423,492
Directed Vehicles	2,874	353
Total	499,611	423,845

### 7. Number of Stations by Type/Privilege and Program Area

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	5,470	319	600	56	0	6,445
Test Only	2,372	43	22	2	0	2,439
Basic Area Dealer	2	1	124	0	0	127
Business Fleet	7	1	0	0	0	8
Gold Shield	453	27	64	73	0	617
Government Fleet	241	8	36	2	0	287
Permanent Fleet Registered	46	2	8	0	0	56
Referee	34	1	6	1	0	42
Unknown Type	2	0	0	0	0	2
Total	8,627	402	860	134	0	10,023

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	7,415,684	973,929	13.13%	179,431	2.42%
Partially Enhanced	434,676	63,381	14.58%	11,959	2.75%
Basic	828,631	94,624	11.42%	21,603	2.61%
Change of Ownership	70,297	9,932	14.13%	2,878	4.09%
No Program	58	3	5.17%	1	1.72%
Unknown Program	611,303	60,200	9.85%	10,098	1.65%
Total Program Area	9,360,649	1,202,069	12.84%	225,970	2.41%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	5,308,708	777,771	14.65%	158,130	2.98%
Regular	3,438,945	346,931	10.09%	53,932	1.57%
Basic Area Dealer	65,382	3,491	5.34%	502	0.77%
Gold Shield in Enhanced Area	371,335	47,375	12.76%	7,426	2.00%
Gold Shield in Basic Area	78,127	11,726	15.01%	2,789	3.57%
Gold Shield in COO Area	47,649	6,195	13.00%	1,793	3.76%
Business Fleet	280	22	7.86%	3	1.07%
Permanent Fleet Registered	2,114	176	8.33%	20	0.95%
Referee	10,262	4,803	46.80%	957	9.33%
Government Fleet	35,339	3,160	8.94%	326	0.92%
Unknown Privilege	8	3	37.50%	0	0.00%
Total	9,360,649	1,202,069	12.84%	225,970	2.41%

10. Initial Tests by Vehicle Model Year

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-0	3	1	33.33%	33.33%	0.00%	33.33%	0.00%	0.00%
MY-1931	1	1	100.00%	100.00%	100.00%	0.00%	100.00%	0.00%
MY-1934	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1952	1	1	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1954	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1955	5	1	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1960	5	2	40.00%	40.00%	40.00%	0.00%	0.00%	0.00%
MY-1965	15	7	46.67%	46.67%	46.67%	0.00%	0.00%	0.00%
MY-1966	8	3	37.50%	37.50%	25.00%	0.00%	0.00%	0.00%
MY-1967	5	2	40.00%	40.00%	20.00%	0.00%	0.00%	0.00%
MY-1968	4	3	75.00%	50.00%	25.00%	50.00%	50.00%	0.00%
MY-1969	8	3	37.50%	37.50%	12.50%	0.00%	12.50%	0.00%
MY-1970	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1971	7	4	57.14%	57.14%	42.86%	42.86%	28.57%	0.00%
MY-1972	13	7	53.85%	46.15%	15.38%	46.15%	46.15%	0.00%
MY-1973	16	7	43.75%	25.00%	12.50%	12.50%	18.75%	0.00%
MY-1974	150	31	20.67%	13.33%	6.67%	14.00%	8.00%	0.00%
MY-1975	340	92	27.06%	22.35%	10.88%	13.53%	7.65%	0.00%
MY-1976	20,301	5,529	27.24%	20.88%	9.81%	14.14%	7.97%	0.00%
MY-1977	29,512	7,600	25.75%	18.92%	8.62%	14.10%	7.67%	0.00%
MY-1978	34,196	9,128	26.69%	19.81%	9.33%	14.08%	8.10%	0.00%
MY-1979	37,637	10,634	28.25%	22.31%	10.78%	14.66%	8.38%	0.00%
MY-1980	24,067	6,828	28.37%	22.48%	11.60%	15.50%	8.41%	0.00%
MY-1981	28,677	8,561	29.85%	24.65%	11.65%	15.50%	8.29%	0.00%
MY-1982	34,588	10,231	29.58%	24.47%	11.43%	15.40%	7.65%	0.00%
MY-1983	47,579	14,210	29.87%	24.53%	11.13%	15.14%	7.31%	0.00%
MY-1984	87,417	26,446	30.25%	25.14%	12.26%	15.57%	6.98%	0.00%
MY-1985	119,140	34,264	28.76%	23.65%	11.18%	14.79%	6.07%	0.00%
MY-1986	168,222	43,726	25.99%	20.65%	9.28%	13.53%	4.94%	0.00%
MY-1987	201,643	54,963	27.26%	22.49%	9.01%	13.09%	4.39%	0.00%
MY-1988	239,788	57,960	24.17%	19.52%	7.43%	11.83%	3.56%	0.00%
MY-1989	313,440	66,099	21.09%	16.43%	5.85%	10.39%	2.90%	0.00%
MY-1990	352,860	68,055	19.29%	15.21%	5.08%	8.92%	2.17%	0.00%
MY-1991	398,576	69,452	17.43%	13.64%	4.32%	7.83%	1.76%	0.00%
MY-1992	387,325	61,666	15.92%	12.38%	3.78%	6.84%	1.59%	0.00%
MY-1993	457,472	78,742	17.21%	14.03%	3.11%	6.45%	1.52%	0.00%
MY-1994	561,923	74,020	13.17%	10.17%	2.05%	5.01%	1.35%	0.00%
MY-1995	524,224	64,921	12.38%	9.23%	1.91%	4.82%	1.27%	0.00%
MY-1996	714,842	102,150	14.29%	5.52%	0.78%	10.39%	0.81%	9.41%
MY-1997	567,689	74,931	13.20%	4.59%	0.78%	10.04%	0.74%	9.06%
MY-1998	953,315	80,400	8.43%	2.41%	0.40%	6.57%	0.47%	5.98%
MY-1999	615,687	47,333	7.69%	1.63%	0.31%	6.40%	0.43%	5.84%
MY-2000	1,503,740	83,670	5.56%	0.80%	0.17%	4.87%	0.30%	4.41%
MY-2001	313,205	16,635	5.31%	0.55%	0.12%	4.82%	0.22%	4.26%
MY-2002	271,635	11,173	4.11%	0.35%	0.08%	3.76%	0.17%	3.24%
MY-2003	122,828	4,261	3.47%	0.25%	0.07%	3.16%	0.17%	2.63%
MY-2004	83,328	2,930	3.52%	0.21%	0.07%	3.22%	0.16%	2.73%
MY-2005	87,262	3,296	3.78%	0.16%	0.08%	3.51%	0.16%	3.09%
MY-2006	54,158	1,913	3.53%	0.21%	0.13%	3.28%	0.11%	3.01%
MY-2007	3,780	176	4.66%	0.11%	0.00%	4.52%	0.03%	4.34%
MY-2008	7	1	14.29%	14.29%	0.00%	0.00%	0.00%	0.00%
All Model Years	9,360,649	1,202,069	12.84%	7.76%	2.41%	7.42%	1.43%	3.31%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	9,069
Certificate of Non Compliance	19
Parts Cost	1,096
Hardship Extensions	1,209
Exempt Vehicle	546
Exempted by Directive	1,686
Parts Exemption	29
Unknown Outcome	0
Permanently Exempt Vehicle	2
Temporarily Exempt Vehicle	0
	<b>13,656</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,211
Stations Locked-Out at Least Once	3,782
Stations Conducted at Least One Test	8,812

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	12,861	6,120
EA	Gas Endorsement	31	0
EB	Both Endorsement	79	0
EB	Gas Endorsement	674	0
EU	Gas Endorsement	2	0
GU	Both Endorsement	20	0

### 14. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	4,821,080	48.52	442,153	48.53	5,263,233	48.52
Test and Repair	2,431,825	46.69	960,275	43.96	3,392,100	45.92
Test and Repair Dealer	228	43.44	65,336	46.72	65,564	46.70
Referee	7,152	30.00	1,766	30.00	8,918	30.00
Gold Shield in Enhanced Area	290,867	46.60	82,984	43.76	373,851	45.97
Gold Shield in Basic Area	317	53.23	78,751	36.84	79,068	36.91
Gold Shield in COO Area	859	55.29	47,337	48.86	48,196	48.97

### 15. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$1-50	92,332	22.79	<b>309,696</b>	<b>200.08</b>
	\$51-150	83,466	99.99		
	\$151-250	51,705	199.24		
	\$251-450	51,297	335.29		
	Over \$450	30,896	777.25		
CAP Repairs	\$1-50	2,447	26.17	<b>38,498</b>	<b>313.25</b>
	\$51-150	5,157	105.92		
	\$151-250	7,262	202.84		
	\$251-450	14,252	345.17		
	Over \$450	9,380	539.14		
Total Repairs	\$1-50	85,085	23.06	<b>321,562</b>	<b>230.20</b>
	\$51-150	74,122	100.27		
	\$151-250	55,394	199.64		
	\$251-450	63,880	338.84		
	Over \$450	43,081	741.09		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	33,819	313.25

### 17. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	79	13	2	0	5	7	8	0
Acceleration Simulation Mode (ASM)	Basic	Referee	33	13	2	4	3	5	6	5

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	547	85	10	4	22	47	54	8
Acceleration Simulation Mode (ASM)	Basic	Test Only	453	85	15	7	20	55	42	14
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	9	2	0	1	1	2	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	1	3	0	2	0	2	1	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	85	17	5	1	4	13	9	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	60	8	2	0	2	5	6	1
Acceleration Simulation Mode (ASM)	Enhanced	Business-Fleet	148	20	1	0	2	12	9	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	240	38	4	3	13	19	23	5
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	627	82	8	5	27	39	52	7
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	199,004	27,798	3,200	1,592	11,308	13,217	17,870	3,019
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	543	50	3	216	267	287	6
Acceleration Simulation Mode (ASM)	Enhanced	Gross Polluter Certification	37	4	0	0	3	1	3	2
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	762	112	6	1	46	60	53	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	3,304	3,258	550	1,356	638	1,682	1,642	1,756
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	1,713,220	198,421	25,042	10,545	73,665	99,267	128,019	19,187
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	60	8	2	0	1	7	2	1
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	3,849,348	695,993	141,086	39,853	140,475	474,119	375,642	77,296
Acceleration Simulation Mode (ASM)	No Program	Test Only	13	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	22	3	0	0	0	1	2	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	73	9	0	1	2	4	4	3

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	28,306	6,419	1,226	363	1,509	4,158	3,430	780
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	15	2	0	5	7	8	0
Acceleration Simulation Mode (ASM)	Partial	Referee	112	221	40	111	36	111	107	146
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	192,688	34,774	6,282	2,148	7,748	22,142	18,894	3,958
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	134	16	1	0	5	10	7	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	102,457	18,781	3,579	1,195	4,204	12,103	10,026	2,367
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Basic Area	10	3	0	1	1	2	2	1
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	42	6	1	0	1	4	2	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	17,480	3,202	548	205	1,068	1,774	1,930	422
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	2,182	184	10	645	1,423	840	11
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	643	371	83	133	98	184	242	199
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	197,938	21,165	2,978	1,191	8,432	10,604	13,656	2,112
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	147,666	21,092	4,155	1,301	7,052	12,514	12,713	2,478
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	3	2	0	1	1	1	1	1
Two Speed Idle (TSI)	Basic	Gold Shield Dealer	764	172	35	24	41	69	132	35
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	53,174	10,183	2,500	732	2,047	4,768	6,401	1,453
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	1,900	246	76	11	65	134	142	28
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	32,085	5,187	1,216	379	1,357	2,360	3,361	790
Two Speed Idle (TSI)	Basic	Government Fleet	0	60	14	2	20	26	33	2
Two Speed Idle (TSI)	Basic	Gross Polluter Certification	267	55	8	4	16	15	43	8
Two Speed Idle (TSI)	Basic	Permanent Fleet Registered	6	2	1	0	0	1	0	1
Two Speed Idle (TSI)	Basic	Referee	413	365	76	155	58	153	230	198

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Basic	Test and Repair	494,604	63,894	14,281	3,914	15,845	28,849	41,627	7,903
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	44,723	2,656	454	127	888	983	1,770	288
Two Speed Idle (TSI)	Basic	Test Only	76,737	11,607	2,913	660	2,840	5,802	6,580	1,458
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	1,174	286	87	27	38	156	165	61
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	20,543	4,137	1,292	300	706	2,393	2,348	569
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	1,508	347	85	29	71	171	206	67
Two Speed Idle (TSI)	Change of Ownership	Gross Polluter Certification	568	105	28	3	21	48	69	6
Two Speed Idle (TSI)	Change of Ownership	Permanent Fleet Registered	7	3	1	0	0	2	2	1
Two Speed Idle (TSI)	Change of Ownership	Referee	30	59	17	31	9	29	41	43
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	24,984	3,426	896	256	845	1,729	2,213	472
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	534	26	3	0	12	6	20	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	8,630	1,513	462	105	305	836	870	211
Two Speed Idle (TSI)	Enhanced	Business-Fleet	18	2	2	0	0	2	0	0
Two Speed Idle (TSI)	Enhanced	Gold Shield Dealer	79	8	0	0	3	1	8	1
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	4,799	469	55	31	247	110	368	45
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	4,517	449	64	22	200	136	337	37
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	29,752	3,361	900	209	1,184	1,565	2,084	452
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	117	27	0	35	58	59	2
Two Speed Idle (TSI)	Enhanced	Gross Polluter Certification	113	26	5	0	7	10	16	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	580	55	11	8	1	22	31	16
Two Speed Idle (TSI)	Enhanced	Referee	546	321	80	140	82	105	160	172
Two Speed Idle (TSI)	Enhanced	Test and Repair	230,232	16,761	2,966	873	7,777	5,683	12,000	1,660
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	6,125	339	16	5	239	42	302	7
Two Speed Idle (TSI)	Enhanced	Test Only	282,213	25,743	5,356	1,153	11,178	10,242	16,830	2,236
Two Speed Idle (TSI)	No Program	Test and Repair	13	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Gold Shield Dealer	17	2	1	0	1	1	2	0
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	466	52	9	2	23	17	38	5
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	394	32	4	1	17	8	26	1

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	2,495	349	107	29	96	179	200	57
Two Speed Idle (TSI)	Partial	Referee	26	18	11	7	1	11	3	7
Two Speed Idle (TSI)	Partial	Test and Repair	18,159	1,892	511	126	552	934	1,164	256
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	668	34	2	0	22	7	28	0
Two Speed Idle (TSI)	Partial	Test Only	8,077	761	184	54	222	351	411	113
Two Speed Idle (TSI)	Unknown Program	Gold Shield Dealer	52	15	6	0	7	8	11	2
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	4,813	692	134	56	261	259	496	87
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	12,003	1,233	348	90	339	624	798	187
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	6,269	697	142	51	299	275	492	109
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	242	49	3	74	115	125	6
Two Speed Idle (TSI)	Unknown Program	Gross Polluter Certification	137	27	9	0	9	13	15	0
Two Speed Idle (TSI)	Unknown Program	Permanent Fleet Registered	35	2	1	0	0	1	1	0
Two Speed Idle (TSI)	Unknown Program	Referee	434	174	98	35	25	112	61	55
Two Speed Idle (TSI)	Unknown Program	Test and Repair	75,657	6,494	960	364	3,190	1,931	5,056	687
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	7,490	412	24	8	289	55	356	14
Two Speed Idle (TSI)	Unknown Program	Test Only	32,878	2,186	378	123	1,186	707	1,574	219
Two Speed Idle (TSI)	Unknown Program	Unknown Privilege	0	1	0	0	0	1	0	0
UnKnown TestType	Enhanced	Test Only	0	1	0	0	1	1	1	0