

# Executive Summary Report

## SMOG CHECK Statewide

December 2006

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	662,378	82,607	12.47%
Total	778,190	109,789	14.11%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	563,197	85.03%	99,181	14.97%
Total	646,164	83.03%	132,026	16.97%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	339,264	85.41%	57,938	14.59%
Total	391,998	84.16%	73,800	15.84%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	14,626	2.21%
All Emissions	47,624	7.19%
All Visual	9,218	1.39%
All Functional	49,074	7.41%
OBDII	23,726	3.58%
Overall	82,607	12.47%

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

	Initial Tests	Certificates Issued
Volunteers	173,957	153,569
Directed Vehicles	223,245	185,695
Total	397,202	339,264

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	32,256	27,124
Directed Vehicles	165	21
Total	32,421	27,145

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,780	286	539	45	0	5,650
Test Only	2,054	36	19	1	0	2,110
Basic Area Dealer	1	1	119	0	0	121
Gold Shield	420	26	62	72	0	580
Business Fleet	5	1	0	0	0	6
Permanent Fleet Registered	36	1	6	0	0	43
Referee	34	0	6	1	0	41
Government Fleet	241	8	36	2	0	287
Unknown Type	2	0	0	0	0	2
Total	7,573	359	787	121	0	8,840

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	528,431	67,326	12.74%	11,585	2.19%
Partially Enhanced	30,701	4,361	14.20%	834	2.72%
Basic	57,783	6,491	11.23%	1,402	2.43%
Change of Ownership	4,663	640	13.73%	169	3.62%
No Program	7	0	0.00%	0	0.00%
Unknown Program	40,793	3,789	9.29%	636	1.56%
Total Program Area	662,378	82,607	12.47%	14,626	2.21%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	397,202	55,886	14.07%	10,435	2.63%
Regular	224,732	21,682	9.65%	3,278	1.46%
Basic Area Dealer	4,326	214	4.95%	27	0.62%
Gold Shield in Enhanced Area	23,158	2,941	12.70%	463	2.00%
Gold Shield in Basic Area	5,945	900	15.14%	222	3.73%
Gold Shield in COO Area	3,318	417	12.57%	105	3.16%
Business Fleet	18	0	0.00%	0	0.00%
Permanent Fleet Registered	170	13	7.65%	2	1.18%
Referee	719	332	46.18%	65	9.04%
Government Fleet	2,790	222	7.96%	29	1.04%
Total	662,378	82,607	12.47%	14,626	2.21%

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	2	1	50.00%	50.00%	0.00%	50.00%	0.00%	0.00%
MY-1955	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1965	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1972	1	1	100.00%	100.00%	0.00%	100.00%	100.00%	0.00%
MY-1973	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	11	2	18.18%	9.09%	0.00%	9.09%	9.09%	0.00%
MY-1975	23	3	13.04%	8.70%	4.35%	13.04%	8.70%	0.00%
MY-1976	1,324	348	26.28%	19.64%	9.14%	13.97%	8.76%	0.00%
MY-1977	1,916	477	24.90%	17.90%	8.98%	13.88%	8.82%	0.00%
MY-1978	2,204	619	28.09%	19.87%	9.21%	14.84%	9.21%	0.00%
MY-1979	2,611	704	26.96%	20.95%	10.07%	14.02%	8.20%	0.00%
MY-1980	1,651	476	28.83%	21.93%	11.63%	15.57%	7.81%	0.00%
MY-1981	1,774	513	28.92%	23.11%	12.40%	14.37%	9.13%	0.00%
MY-1982	2,270	657	28.94%	23.96%	11.10%	14.85%	7.18%	0.00%
MY-1983	2,800	799	28.54%	23.00%	10.14%	14.64%	7.46%	0.00%
MY-1984	5,636	1,689	29.97%	24.17%	12.21%	16.32%	7.90%	0.00%
MY-1985	7,451	2,123	28.49%	23.61%	11.53%	14.35%	6.17%	0.00%
MY-1986	10,682	2,698	25.26%	20.17%	8.50%	12.70%	4.75%	0.00%
MY-1987	14,010	3,645	26.02%	21.22%	8.08%	12.55%	4.31%	0.00%
MY-1988	15,042	3,501	23.27%	18.87%	7.27%	11.28%	3.54%	0.00%
MY-1989	20,206	4,227	20.92%	16.11%	5.96%	10.35%	3.04%	0.00%
MY-1990	23,543	4,492	19.08%	14.93%	4.98%	8.86%	2.26%	0.00%
MY-1991	26,913	4,605	17.11%	13.44%	4.10%	7.51%	1.75%	0.00%
MY-1992	25,467	4,015	15.77%	12.29%	3.87%	6.64%	1.58%	0.00%
MY-1993	30,522	5,164	16.92%	13.99%	3.10%	6.43%	1.43%	0.00%
MY-1994	36,286	4,852	13.37%	10.16%	2.02%	5.26%	1.51%	0.00%
MY-1995	40,960	4,821	11.77%	8.72%	1.76%	4.60%	1.17%	0.00%
MY-1996	42,876	6,634	15.47%	5.63%	0.87%	11.57%	0.97%	10.52%
MY-1997	44,657	5,710	12.79%	4.42%	0.74%	9.68%	0.75%	8.76%
MY-1998	58,460	5,757	9.85%	2.69%	0.41%	7.77%	0.60%	7.08%
MY-1999	54,437	3,678	6.76%	1.41%	0.26%	5.64%	0.37%	5.09%
MY-2000	81,570	5,824	7.14%	1.02%	0.24%	6.29%	0.38%	5.75%
MY-2001	58,180	2,679	4.60%	0.42%	0.09%	4.21%	0.19%	3.80%
MY-2002	17,136	771	4.50%	0.44%	0.12%	4.15%	0.20%	3.58%
MY-2003	13,286	503	3.79%	0.28%	0.07%	3.45%	0.18%	2.87%
MY-2004	6,218	229	3.68%	0.23%	0.05%	3.36%	0.23%	2.88%
MY-2005	5,184	187	3.61%	0.21%	0.12%	3.28%	0.25%	2.78%
MY-2006	5,973	173	2.90%	0.03%	0.00%	2.75%	0.13%	2.48%
MY-2007	1,093	30	2.74%	0.27%	0.00%	2.47%	0.00%	2.38%
All Model Years	662,378	82,607	12.47%	7.19%	2.21%	7.41%	1.39%	3.58%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	638
Certificate of Non Compliance	0
Parts Cost	90
Hardship Extensions	91
Exempt Vehicle	33
Exempted by Directive	138
Parts Exemption	3
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>993</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,278
Stations Locked-Out at Least Once	388
Stations Conducted at Least One Test	7,562

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,475	5,637
EA	Gas Endorsement	16	0
EB	Both Endorsement	54	0
EB	Gas Endorsement	558	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	359,446	48.35	34,618	48.61	394,064	48.37
Test and Repair	155,251	46.82	66,581	44.34	221,832	46.08
Test and Repair Dealer	13	52.85	4,316	47.49	4,329	47.50
Referee	486	30.00	162	30.00	648	30.00
Gold Shield in Enhanced Area	17,555	46.12	5,830	43.48	23,385	45.46
Gold Shield in Basic Area	19	64.84	5,853	36.21	5,872	36.31
Gold Shield in COO Area	61	66.84	3,297	48.97	3,358	49.29

**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	5,930	22.70	<b>19,695</b>	<b>208.24</b>
	\$51-150	5,212	100.07		
	\$151-250	3,186	198.78		
	\$251-450	3,306	334.38		
	Over \$450	2,061	827.93		
CAP Repairs	\$1-50	144	26.76	<b>2,776</b>	<b>324.59</b>
	\$51-150	386	106.67		
	\$151-250	466	204.31		
	\$251-450	1,058	347.66		
	Over \$450	722	544.31		
Total Repairs	\$1-50	5,338	23.05	<b>20,494</b>	<b>244.09</b>
	\$51-150	4,517	100.58		
	\$151-250	3,451	199.35		
	\$251-450	4,187	339.45		
	Over \$450	3,001	771.69		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	2,491	324.59

**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	Test and Repair	31	9	1	2	4	5	7	3
Acceleration Simulation Mode (ASM)	Basic	Test Only	38	6	0	0	2	3	3	0

	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)	Change of Ownership	Test Only	3	1	1	0	0	1	1	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	34	3	0	0	1	1	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	11,500	1,640	180	92	715	717	1,110	185
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	91	10	0	31	49	42	0
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	61	9	0	0	4	4	5	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	210	231	46	87	47	123	113	113
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	107,051	11,720	1,435	641	4,679	5,440	7,864	1,126
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	3	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	289,554	50,030	9,235	2,818	11,996	32,376	27,921	5,511
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	1,853	412	81	20	115	250	238	54
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	7	17	3	12	1	5	6	16
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	13,531	2,392	433	145	633	1,415	1,382	274
Acceleration Simulation Mode (ASM)	Partial	Test Only	7,326	1,284	250	84	307	825	673	148
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,124	199	39	21	62	116	113	34
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	78	3	1	24	53	29	2
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	40	24	7	11	3	17	12	16
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	13,196	1,350	192	80	558	639	888	145
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	10,543	1,348	265	100	454	803	819	160

	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	Gold Shield in Basic Area	4,128	806	207	55	191	386	480	103
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	155	19	6	0	7	9	13	2
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	2,267	369	87	32	108	163	243	63
Two Speed Idle (TSI)	Basic	Government Fleet	0	11	4	2	1	7	3	2
Two Speed Idle (TSI)	Basic	Permanent Fleet Registered	0	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Basic	Referee	31	25	4	11	3	9	20	13
Two Speed Idle (TSI)	Basic	Test and Repair	33,707	4,225	851	255	1,192	1,790	2,824	517
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,017	175	25	6	76	51	133	17
Two Speed Idle (TSI)	Basic	Test Only	5,612	842	216	62	205	395	497	129
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	51	12	1	1	4	5	9	2
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,375	280	77	24	63	150	159	42
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	94	19	2	0	6	8	15	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,641	225	62	18	62	109	143	36
Two Speed Idle (TSI)	Change of Ownership	Test Only	676	100	26	3	25	59	58	8
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	303	26	5	2	12	8	19	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	336	44	8	1	18	14	33	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,064	239	60	10	99	103	164	26
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	27	6	0	9	12	16	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	43	3	1	0	0	1	1	2
Two Speed Idle (TSI)	Enhanced	Referee	33	19	1	12	8	3	10	13
Two Speed Idle (TSI)	Enhanced	Test and Repair	16,854	1,190	202	61	595	365	882	125
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	339	14	2	0	8	4	10	0
Two Speed Idle (TSI)	Enhanced	Test Only	22,526	2,037	394	98	936	753	1,362	200
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	34	7	1	0	3	2	5	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	23	3	0	1	1	1	3	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	156	28	9	3	8	15	18	6
Two Speed Idle (TSI)	Partial	Test and Repair	1,357	153	39	8	65	62	106	17
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	47	2	0	0	1	1	1	0

	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	Test Only	598	62	17	4	20	25	39	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	315	47	8	5	14	21	32	7
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	858	67	14	6	21	39	37	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	436	35	5	3	12	12	24	5
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	14	5	1	2	9	3	3
Two Speed Idle (TSI)	Unknown Program	Referee	36	10	4	1	2	4	4	3
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,962	418	63	17	197	125	333	41
Two Speed Idle (TSI)	Unknown Program	Test Only	2,385	176	31	10	97	58	122	15