

# Executive Summary Report

## SMOG CHECK Statewide

June 2006

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	819,651	105,318	12.85%
Total	969,569	141,004	14.54%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	697,292	85.07%	122,359	14.93%
Total	804,057	82.93%	165,512	17.07%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	385,819	84.81%	69,118	15.19%
Total	450,389	83.41%	89,599	16.59%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	19,875	2.42%
All Emissions	64,192	7.83%
All Visual	11,612	1.42%
All Functional	59,866	7.30%
OBDII	26,673	3.25%
Overall	105,318	12.85%

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

	Initial Tests	Certificates Issued
Volunteers	220,469	194,172
Directed Vehicles	234,468	191,647
Total	454,937	385,819

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	44,480	38,187
Directed Vehicles	325	100
Total	44,805	38,287

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	4,852	280	524	44	0	5,700
Test Only	2,004	36	16	1	0	2,057
Basic Area Dealer	1	1	121	0	0	123
Gold Shield	444	27	60	72	0	603
Business Fleet	6	1	0	0	0	7
Permanent Fleet Registered	46	1	8	0	0	55
Referee	34	0	6	1	0	41
Government Fleet	240	8	36	2	0	286
Unknown Type	0	0	0	0	0	0
Total	7,627	354	771	120	0	8,872

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	649,240	85,126	13.11%	15,731	2.42%
Partially Enhanced	38,240	5,664	14.81%	1,086	2.84%
Basic	74,077	8,339	11.26%	1,930	2.61%
Change of Ownership	6,138	907	14.78%	246	4.01%
No Program	3	0	0.00%	0	0.00%
Unknown Program	51,953	5,282	10.17%	882	1.70%
Total Program Area	819,651	105,318	12.85%	19,875	2.42%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	454,937	67,334	14.80%	13,796	3.03%
Regular	309,916	31,108	10.04%	4,856	1.57%
Basic Area Dealer	5,894	314	5.33%	55	0.93%
Gold Shield in Enhanced Area	34,003	4,175	12.28%	645	1.90%
Gold Shield in Basic Area	6,719	1,018	15.15%	243	3.62%
Gold Shield in COO Area	4,083	590	14.45%	154	3.77%
Business Fleet	26	2	7.69%	1	3.85%
Permanent Fleet Registered	187	17	9.09%	1	0.53%
Referee	960	475	49.48%	95	9.90%
Government Fleet	2,926	285	9.74%	29	0.99%
Total	819,651	105,318	12.85%	19,875	2.42%

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-1965	1	1	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%
MY-1968	1	1	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%
MY-1971	2	2	100.00%	100.00%	100.00%	50.00%	50.00%	0.00%
MY-1972	3	1	33.33%	33.33%	0.00%	33.33%	33.33%	0.00%
MY-1973	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	7	3	42.86%	42.86%	42.86%	0.00%	0.00%	0.00%
MY-1975	28	7	25.00%	25.00%	7.14%	14.29%	0.00%	0.00%
MY-1976	1,992	568	28.51%	22.14%	10.94%	14.41%	8.13%	0.00%
MY-1977	2,698	715	26.50%	19.38%	8.93%	14.53%	7.82%	0.00%
MY-1978	3,132	843	26.92%	19.67%	9.48%	13.60%	7.85%	0.00%
MY-1979	3,035	842	27.74%	22.14%	10.68%	14.33%	7.68%	0.00%
MY-1980	2,151	630	29.29%	23.11%	11.95%	15.67%	9.25%	0.00%
MY-1981	2,607	782	30.00%	24.70%	12.24%	15.46%	8.17%	0.00%
MY-1982	2,845	853	29.98%	25.52%	11.92%	15.29%	7.38%	0.00%
MY-1983	4,503	1,378	30.60%	26.07%	11.97%	13.99%	6.86%	0.00%
MY-1984	7,938	2,396	30.18%	25.45%	12.75%	15.07%	6.74%	0.00%
MY-1985	10,568	3,154	29.84%	24.56%	11.88%	15.29%	6.37%	0.00%
MY-1986	14,440	3,776	26.15%	20.51%	9.13%	13.41%	4.90%	0.00%
MY-1987	17,074	4,735	27.73%	22.93%	9.25%	13.21%	4.41%	0.00%
MY-1988	21,328	5,086	23.85%	19.38%	7.54%	11.57%	3.61%	0.00%
MY-1989	26,331	5,713	21.70%	16.77%	5.78%	10.60%	3.05%	0.00%
MY-1990	30,487	5,855	19.20%	15.13%	4.97%	8.66%	1.97%	0.00%
MY-1991	34,534	5,976	17.30%	13.64%	4.37%	7.54%	1.78%	0.00%
MY-1992	34,143	5,503	16.12%	12.59%	3.61%	6.78%	1.51%	0.00%
MY-1993	40,397	7,062	17.48%	14.30%	3.18%	6.42%	1.55%	0.00%
MY-1994	51,140	6,572	12.85%	10.01%	1.93%	4.78%	1.30%	0.00%
MY-1995	43,887	5,507	12.55%	9.25%	1.90%	4.83%	1.26%	0.00%
MY-1996	66,738	9,309	13.95%	5.45%	0.70%	9.98%	0.80%	9.07%
MY-1997	48,274	6,234	12.91%	4.61%	0.79%	9.71%	0.69%	8.75%
MY-1998	85,394	7,167	8.39%	2.51%	0.42%	6.42%	0.46%	5.84%
MY-1999	53,046	4,058	7.65%	1.72%	0.35%	6.30%	0.44%	5.73%
MY-2000	136,047	7,359	5.41%	0.78%	0.15%	4.71%	0.28%	4.25%
MY-2001	22,378	1,269	5.67%	0.61%	0.16%	5.19%	0.19%	4.61%
MY-2002	23,279	927	3.98%	0.34%	0.08%	3.63%	0.16%	3.08%
MY-2003	9,958	320	3.21%	0.30%	0.13%	2.94%	0.16%	2.48%
MY-2004	7,075	263	3.72%	0.30%	0.16%	3.32%	0.20%	2.88%
MY-2005	7,707	276	3.58%	0.06%	0.04%	3.35%	0.18%	3.04%
MY-2006	4,333	166	3.83%	0.30%	0.14%	3.46%	0.12%	3.25%
MY-2007	146	9	6.16%	0.00%	0.00%	6.16%	0.00%	6.16%
MY-2008	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	819,651	105,318	12.85%	7.83%	2.42%	7.30%	1.42%	3.25%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	864
Certificate of Non Compliance	2
Parts Cost	90
Hardship Extensions	131
Exempt Vehicle	31
Exempted by Directive	171
Parts Exemption	3
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,292</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,219
Stations Locked-Out at Least Once	246
Stations Conducted at Least One Test	7,653

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,804	6,310
EA	Gas Endorsement	18	0
EB	Both Endorsement	57	0
EB	Gas Endorsement	602	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	412,891	48.86	38,384	48.74	451,275	48.85
Test and Repair	219,638	46.70	85,955	44.13	305,593	45.97
Test and Repair Dealer	18	32.28	5,898	45.56	5,916	45.52
Referee	666	30.00	205	30.00	871	30.00
Gold Shield in Enhanced Area	26,751	46.55	7,503	43.03	34,254	45.78
Gold Shield in Basic Area	20	50.90	6,791	37.59	6,811	37.63
Gold Shield in COO Area	102	51.87	4,035	48.99	4,137	49.06

**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	8,179	22.83	<b>27,473</b>	<b>200.05</b>
	\$51-150	7,341	99.96		
	\$151-250	4,635	199.11		
	\$251-450	4,559	335.81		
	Over \$450	2,759	768.97		
CAP Repairs	\$1-50	208	26.58	<b>3,167</b>	<b>304.01</b>
	\$51-150	455	105.19		
	\$151-250	618	202.59		
	\$251-450	1,125	343.66		
	Over \$450	761	522.45		
Total Repairs	\$1-50	7,618	23.07	<b>28,396</b>	<b>227.45</b>
	\$51-150	6,539	100.24		
	\$151-250	4,940	199.78		
	\$251-450	5,557	338.96		
	Over \$450	3,742	736.76		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	2,803	304.01

**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	12	4	0	0	2	1	3	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	58	8	1	0	2	5	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)	Basic	Test Only	47	15	1	0	2	10	5	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	8	2	0	1	1	1	1	1
Acceleration Simulation Mode (ASM)	Enhanced	Business-Fleet	16	2	1	0	0	2	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	14	4	1	0	3	2	4	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	76	7	0	1	3	2	4	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	18,785	2,468	282	133	943	1,167	1,565	279
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	48	4	0	23	20	31	0
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	50	8	0	1	2	5	2	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	300	334	57	138	65	187	175	175
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	157,489	17,958	2,198	957	6,542	9,113	11,372	1,766
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	7	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	328,643	60,071	12,274	3,342	11,775	41,353	31,748	6,597
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	9	2	0	0	0	1	0	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,524	560	94	31	129	365	302	61
Acceleration Simulation Mode (ASM)	Partial	Referee	19	25	4	11	6	11	12	16
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,115	3,082	567	191	660	1,997	1,601	364
Acceleration Simulation Mode (ASM)	Partial	Test Only	8,921	1,703	335	103	393	1,123	907	185
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	2	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,440	276	44	17	77	167	156	33
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	204	17	0	45	152	58	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)	Unknown Program	Referee	49	33	9	13	9	16	21	17
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	16,692	1,843	291	104	720	947	1,171	185
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	12,777	1,887	327	118	652	1,064	1,160	226
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,579	873	215	55	168	413	563	123
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	124	19	3	0	6	8	11	0
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,032	471	111	40	139	207	305	75
Two Speed Idle (TSI)	Basic	Government Fleet	0	5	0	0	4	1	4	0
Two Speed Idle (TSI)	Basic	Referee	43	30	6	14	5	12	17	16
Two Speed Idle (TSI)	Basic	Test and Repair	44,841	5,659	1,275	358	1,436	2,563	3,712	686
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,961	245	48	14	81	97	152	29
Two Speed Idle (TSI)	Basic	Test Only	6,689	1,009	270	57	234	519	550	129
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	93	29	8	5	2	18	16	8
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,792	411	126	36	76	225	238	56
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	136	32	8	1	7	15	18	7
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	2,225	291	76	16	70	149	185	32
Two Speed Idle (TSI)	Change of Ownership	Test Only	755	138	28	13	32	69	80	20
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	466	41	6	1	20	11	31	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	357	29	2	2	15	6	24	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	2,680	283	87	21	83	146	163	43
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	10	3	0	3	7	3	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	54	9	1	1	0	4	5	2
Two Speed Idle (TSI)	Enhanced	Referee	53	34	10	14	4	12	16	20
Two Speed Idle (TSI)	Enhanced	Test and Repair	20,770	1,530	294	73	703	565	1,064	135
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	597	34	1	0	24	5	29	0
Two Speed Idle (TSI)	Enhanced	Test Only	24,461	2,254	509	97	960	926	1,440	174
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	39	8	2	1	2	2	6	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	37	5	1	0	2	1	4	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	Gold Shield in Enhanced Area	207	29	7	3	5	15	17	8
Two Speed Idle (TSI)	Partial	Test and Repair	1,550	170	56	9	32	101	95	15
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	56	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Test Only	717	79	19	4	23	32	46	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	390	63	11	5	23	20	43	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	962	116	22	11	44	44	89	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	529	52	12	7	13	27	28	13
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	18	5	0	4	10	9	0
Two Speed Idle (TSI)	Unknown Program	Referee	44	17	9	5	2	11	6	7
Two Speed Idle (TSI)	Unknown Program	Test and Repair	6,420	565	98	25	278	174	430	48
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	684	30	4	0	17	8	23	0
Two Speed Idle (TSI)	Unknown Program	Test Only	2,799	177	33	9	97	54	136	20
UnKnown TestType	Enhanced	Test Only	0	1	0	0	1	1	1	0