

# Executive Summary Report

## SMOG CHECK Statewide

July 2008

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	844,632	106,406	12.60%
Total	977,348	136,898	14.01%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	726,934	86.07%	117,698	13.93%
Total	823,870	84.30%	153,478	15.70%

### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	433,450	85.92%	71,006	14.08%
Total	493,122	84.96%	87,275	15.04%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	16,910	2.00%
All Emissions	55,100	6.52%
All Visual	12,063	1.43%
All Functional	35,382	4.19%
OBDII	35,460	4.20%
Overall	106,406	12.60%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	677,794	86,330	12.74%	13,547	2.00%
Partially Enhanced	40,566	5,891	14.52%	894	2.20%
Basic	76,651	9,082	11.85%	1,585	2.07%
Change of Ownership	5,357	803	14.99%	226	4.22%
No Program	4	0	0.00%	0	0.00%
Unknown Program	44,260	4,300	9.72%	658	1.49%
Total Program Area	844,632	106,406	12.60%	16,910	2.00%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	504,456	69,704	13.82%	11,839	2.35%
Regular	264,866	24,996	9.44%	3,232	1.22%
Basic Area Dealer	4,722	259	5.48%	34	0.72%
Gold Shield in Enhanced Area	56,639	9,121	16.10%	1,313	2.32%
Gold Shield in Basic Area	6,306	1,075	17.05%	233	3.69%
Gold Shield in COO Area	4,077	517	12.68%	141	3.46%
Business Fleet	15	0	0.00%	0	0.00%
Permanent Fleet Registered	172	18	10.47%	0	0.00%
Referee	977	514	52.61%	104	10.64%
Government Fleet	2,402	202	8.41%	14	0.58%
Total	844,632	106,406	12.60%	16,910	2.00%

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

	Initial Tests	Certificates Issued
Volunteers	267,888	240,198
Directed Vehicles	236,568	193,252
Total	504,456	433,450

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	49,648	42,724
Directed Vehicles	17,374	13,000
Total	67,022	55,724

6. 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-1969	1	1	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%
MY-1970	2	2	100.00%	100.00%	50.00%	50.00%	50.00%	0.00%
MY-1971	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1973	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	3	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	8	1	12.50%	12.50%	12.50%	12.50%	0.00%	0.00%
MY-1976	1,420	399	28.10%	18.87%	9.58%	15.85%	7.89%	0.00%
MY-1977	1,904	594	31.20%	19.59%	9.30%	19.17%	8.67%	0.00%
MY-1978	2,166	701	32.36%	21.33%	11.22%	18.88%	8.73%	0.00%
MY-1979	2,327	750	32.23%	22.39%	10.40%	19.85%	8.55%	0.00%
MY-1980	1,434	418	29.15%	21.62%	11.02%	16.67%	7.67%	0.00%
MY-1981	1,812	584	32.23%	23.84%	12.47%	18.21%	8.94%	0.00%
MY-1982	1,953	610	31.23%	24.37%	11.83%	17.77%	8.19%	0.00%
MY-1983	3,126	965	30.87%	24.34%	11.90%	15.93%	6.97%	0.00%
MY-1984	5,102	1,648	32.30%	25.79%	13.11%	17.33%	7.88%	0.00%
MY-1985	7,225	2,128	29.45%	22.26%	10.42%	16.36%	6.16%	0.00%
MY-1986	10,282	2,832	27.54%	20.33%	9.53%	15.83%	5.52%	0.00%
MY-1987	11,612	3,408	29.35%	22.53%	9.18%	15.62%	5.38%	0.00%
MY-1988	14,664	3,902	26.61%	19.65%	7.87%	14.64%	4.26%	0.00%
MY-1989	19,284	4,597	23.84%	16.94%	6.30%	13.47%	3.65%	0.00%
MY-1990	23,212	5,237	22.56%	16.41%	5.57%	11.93%	2.91%	0.00%
MY-1991	26,811	5,536	20.65%	14.83%	4.96%	10.95%	2.46%	0.00%
MY-1992	26,530	5,133	19.35%	13.48%	4.28%	9.81%	2.36%	0.00%
MY-1993	32,293	6,925	21.44%	15.85%	3.93%	10.08%	2.25%	0.00%
MY-1994	41,411	7,398	17.86%	11.95%	2.61%	8.79%	2.07%	0.00%
MY-1995	38,053	6,299	16.55%	10.84%	2.46%	8.19%	1.91%	0.00%
MY-1996	53,644	8,166	15.22%	6.50%	1.03%	1.36%	1.01%	10.15%
MY-1997	44,125	6,672	15.12%	5.73%	1.04%	1.48%	1.04%	10.60%
MY-1998	73,962	7,315	9.89%	3.15%	0.54%	0.74%	0.70%	7.13%
MY-1999	49,999	4,759	9.52%	2.36%	0.48%	0.74%	0.63%	7.52%
MY-2000	119,722	7,967	6.65%	1.20%	0.26%	0.55%	0.42%	5.41%
MY-2001	36,120	2,987	8.27%	1.02%	0.20%	0.63%	0.52%	7.25%
MY-2002	136,289	6,496	4.77%	0.48%	0.12%	0.44%	0.33%	4.06%
MY-2003	17,281	710	4.11%	0.50%	0.10%	0.32%	0.27%	3.44%
MY-2004	18,449	622	3.37%	0.22%	0.04%	0.27%	0.18%	2.91%
MY-2005	8,061	289	3.59%	0.26%	0.05%	0.24%	0.19%	3.08%
MY-2006	5,714	172	3.01%	0.23%	0.05%	0.25%	0.26%	2.49%
MY-2007	5,501	122	2.22%	0.18%	0.04%	0.15%	0.22%	1.82%
MY-2008	3,020	60	1.99%	0.33%	0.20%	0.07%	0.36%	1.49%
MY-2009	108	1	0.93%	0.00%	0.00%	0.00%	0.00%	0.93%
All Model Years	844,632	106,406	12.60%	6.52%	2.00%	4.19%	1.43%	4.20%

**7. Referee Activity**

	Certificates Issued
Certificate of Compliance	797
Certificate of Non Compliance	2
Parts Cost	87
Hardship Extensions	260
Exempt Vehicle	25
Exempted by Directive	128
Parts Exemption	6
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,305</b>

**8. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,259
Stations Locked-Out at Least Once	123
Stations Conducted at Least One Test	7,478

**9. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,153	5,844
EA	Gas Endorsement	11	0
EB	Both Endorsement	56	0
EB	Gas Endorsement	541	0
GU	Both Endorsement	20	0

**10. 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	446,148	49.74	50,510	50.40	496,658	49.81
Test and Repair	174,910	47.54	87,657	47.17	262,567	47.42
Test and Repair Dealer	14	65.64	4,708	53.96	4,722	54.00
Referee	484	30.00	157	30.00	641	30.00
Gold Shield in Enhanced Area	45,639	49.57	10,959	46.40	56,598	48.95
Gold Shield in Basic Area	0	0.00	6,306	36.11	6,306	36.11
Gold Shield in COO Area	56	57.07	3,900	54.45	3,956	54.49

**11. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,780	21.95	<b>26,245</b>	<b>211.20</b>
	\$51-150	6,873	101.01		
	\$151-250	4,107	199.21		
	\$251-450	4,358	336.81		
	Over \$450	3,127	764.92		
CAP Repairs	\$0-50	137	24.74	<b>5,428</b>	<b>380.20</b>
	\$51-150	367	105.46		
	\$151-250	706	204.25		
	\$251-450	1,957	352.86		
	Over \$450	2,261	524.93		
Total Repairs	\$0-50	6,480	22.24	<b>27,565</b>	<b>275.95</b>
	\$51-150	5,288	101.24		
	\$151-250	4,261	200.43		
	\$251-450	5,840	343.51		
	Over \$450	5,696	714.02		

**12. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	5,428	380.20

**13. 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	7	2	1	0	0	2	1	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	41	11	2	0	4	7	0	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	44	11	1	2	4	5	4	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	4	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	13	4	0	0	2	2	3	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	33,084	6,761	925	332	2,189	3,499	2,252	854
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	87	2	0	46	26	19	2
Acceleration Simulation Mode (ASM)	Enhanced	Referee	290	348	71	120	69	184	122	178
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	125,479	12,169	1,305	579	6,077	4,918	3,107	1,127
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	363,941	61,812	10,472	3,070	17,684	36,094	21,169	6,945
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,876	672	111	38	193	379	235	97
Acceleration Simulation Mode (ASM)	Partial	Referee	10	27	7	12	2	15	14	18
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,554	3,157	446	130	865	1,706	1,146	313
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,657	1,685	276	86	479	969	568	187
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,615	269	35	14	119	121	84	28
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	85	8	0	20	61	11	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	36	28	5	15	4	12	8	21
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	12,230	1,263	163	64	586	579	329	152
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	12,626	1,712	288	123	689	940	439	215
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,505	987	219	85	260	392	455	178
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	259	19	3	0	4	9	9	0
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,984	738	121	48	221	240	339	132

	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	Government Fleet	0	3	0	0	1	2	0	0
Two Speed Idle (TSI)	Basic	Referee	39	45	14	16	9	19	16	29
Two Speed Idle (TSI)	Basic	Test and Repair	45,999	5,989	972	308	1,871	2,127	2,641	683
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,443	222	34	7	75	65	92	29
Two Speed Idle (TSI)	Basic	Test Only	7,471	1,054	218	51	338	455	388	112
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	33	8	3	0	2	5	3	0
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,753	336	110	15	66	184	149	41
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	185	51	16	6	4	25	31	14
Two Speed Idle (TSI)	Change of Ownership	Referee	5	5	0	2	3	2	3	2
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,646	248	59	14	72	104	118	38
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	42	4	0	0	2	2	0	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	804	148	38	18	32	70	60	27
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	330	33	6	0	21	8	4	1
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	509	51	4	5	29	11	11	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,328	522	86	30	245	155	173	59
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	20	3	0	13	4	2	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	66	6	0	0	0	3	2	1
Two Speed Idle (TSI)	Enhanced	Referee	55	31	1	18	11	3	3	20
Two Speed Idle (TSI)	Enhanced	Test and Repair	22,310	1,467	183	54	884	336	353	123
Two Speed Idle (TSI)	Enhanced	Test Only	34,792	2,979	489	120	1,637	939	621	250
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	42	4	0	0	1	1	1	2
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	42	6	0	0	2	1	3	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	322	46	9	1	15	18	15	6
Two Speed Idle (TSI)	Partial	Test and Repair	2,107	196	28	15	79	61	66	26
Two Speed Idle (TSI)	Partial	Test Only	985	92	17	8	31	41	27	14
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	266	43	5	2	15	12	20	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	922	101	24	1	39	39	42	8
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	646	60	9	3	28	20	21	9
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	4	1	0	1	2	2	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)	Unknown Program	Referee	35	15	6	1	2	11	2	11
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,430	496	74	35	253	131	157	65
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	395	12	0	0	10	1	1	0
Two Speed Idle (TSI)	Unknown Program	Test Only	3,124	210	40	9	124	68	35	15
UnKnown TestType	Basic	Referee	1	1	0	0	0	1	0	1
UnKnown TestType	Change of Ownership	Referee	1	1	0	0	0	1	0	0
UnKnown TestType	Enhanced	Referee	9	9	0	0	0	9	0	9
UnKnown TestType	Unknown Program	Referee	2	2	0	0	0	2	0	2