

# Executive Summary Report

## SMOG CHECK Statewide

June 2010

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	931,905	112,478	12.07%
Total	1,068,529	145,812	13.65%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	808,919	86.80%	122,986	13.20%
Total	907,549	84.93%	160,980	15.07%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	492,876	86.31%	78,206	13.69%
Total	557,254	85.18%	96,950	14.82%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	14,572	1.56%
All Emissions	60,511	6.49%
All Visual	13,443	1.44%
All Functional	68,934	7.40%
OBDII	42,307	4.54%
Overall	112,478	12.07%

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

	Initial Tests	Certificates Issued
Volunteers	333,479	302,432
Directed Vehicles	237,603	190,444
Total	571,082	492,876

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	60,270	52,661
Directed Vehicles	20,789	15,165
Total	81,059	67,826

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,682	276	537	26	0	4,521
Test Only	2,412	43	23	1	0	2,479
Basic Area Dealer	0	1	106	0	0	107
Gold Shield	481	27	49	79	0	636
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	30	1	4	0	0	35
Referee	36	0	6	1	0	43
Government Fleet	247	9	37	2	0	295
Unknown Type	1	0	0	0	0	1
Total	6,892	357	762	109	0	8,120

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	744,098	92,022	12.37%	11,640	1.56%
Partially Enhanced	47,883	6,673	13.94%	835	1.74%
Basic	86,630	8,521	9.84%	1,266	1.46%
Change of Ownership	5,656	836	14.78%	190	3.36%
No Program	3	0	0.00%	0	0.00%
Unknown Program	47,635	4,426	9.29%	641	1.35%
Total Program Area	931,905	112,478	12.07%	14,572	1.56%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	571,082	76,942	13.47%	10,414	1.82%
Regular	270,087	21,968	8.13%	2,429	0.90%
Basic Area Dealer	5,385	207	3.84%	16	0.30%
Gold Shield in Enhanced Area	63,736	10,350	16.24%	1,231	1.93%
Gold Shield in Basic Area	11,979	1,682	14.04%	246	2.05%
Gold Shield in COO Area	5,344	715	13.38%	160	2.99%
Business Fleet	11	0	0.00%	0	0.00%
Permanent Fleet Registered	57	7	12.28%	1	1.75%
Referee	526	274	52.09%	39	7.41%
Government Fleet	3,698	333	9.00%	36	0.97%
Total	931,905	112,478	12.07%	14,572	1.56%

**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	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	1,183	328	27.73%	19.70%	8.62%	14.88%	8.03%	0.00%
MY-1977	1,608	458	28.48%	20.46%	8.46%	15.49%	8.02%	0.00%
MY-1978	1,908	522	27.36%	19.44%	7.81%	14.99%	8.07%	0.00%
MY-1979	1,877	602	32.07%	23.02%	8.79%	18.81%	7.78%	0.00%
MY-1980	1,236	365	29.53%	22.65%	11.17%	15.29%	7.85%	0.00%
MY-1981	1,454	401	27.58%	22.28%	9.83%	14.37%	7.98%	0.00%
MY-1982	1,602	524	32.71%	25.41%	9.86%	17.98%	9.05%	0.00%
MY-1983	2,400	808	33.67%	27.21%	10.50%	16.67%	8.25%	0.00%
MY-1984	4,069	1,331	32.71%	27.16%	10.15%	15.41%	8.01%	0.00%
MY-1985	5,380	1,642	30.52%	24.61%	9.81%	14.87%	6.49%	0.00%
MY-1986	7,409	2,146	28.96%	22.90%	8.73%	14.43%	5.32%	0.00%
MY-1987	8,727	2,731	31.29%	25.31%	8.46%	14.55%	5.31%	0.00%
MY-1988	11,298	3,260	28.85%	23.33%	7.67%	13.77%	4.84%	0.00%
MY-1989	14,208	3,829	26.95%	21.14%	6.18%	12.85%	4.07%	0.00%
MY-1990	18,371	4,671	25.43%	20.68%	5.60%	11.47%	3.29%	0.00%
MY-1991	21,703	5,411	24.93%	20.05%	5.17%	11.10%	3.02%	0.00%
MY-1992	22,170	5,324	24.01%	19.21%	4.89%	9.91%	2.91%	0.00%
MY-1993	26,649	7,056	26.48%	21.78%	4.68%	10.32%	3.11%	0.00%
MY-1994	35,117	7,656	21.80%	17.07%	3.05%	8.82%	2.57%	0.00%
MY-1995	33,894	7,267	21.44%	16.71%	3.07%	8.55%	2.52%	0.00%
MY-1996	47,983	7,860	16.38%	7.44%	1.13%	10.95%	1.53%	10.09%
MY-1997	41,980	6,901	16.44%	6.80%	1.03%	11.73%	1.44%	10.98%
MY-1998	66,572	7,676	11.53%	4.12%	0.69%	8.45%	1.11%	7.98%
MY-1999	51,955	5,903	11.36%	3.21%	0.56%	9.01%	1.16%	8.66%
MY-2000	108,362	8,924	8.24%	1.71%	0.36%	6.84%	0.70%	6.61%
MY-2001	44,038	4,176	9.48%	1.66%	0.35%	8.34%	0.74%	8.16%
MY-2002	121,410	6,801	5.60%	0.76%	0.15%	4.83%	0.52%	4.72%
MY-2003	33,058	1,912	5.78%	1.09%	0.20%	4.94%	0.54%	4.85%
MY-2004	134,479	4,570	3.40%	0.41%	0.08%	2.95%	0.32%	2.86%
MY-2005	18,312	530	2.89%	0.88%	0.09%	2.20%	0.55%	2.14%
MY-2006	19,085	449	2.35%	0.57%	0.06%	1.88%	0.36%	1.80%
MY-2007	8,974	206	2.30%	0.55%	0.04%	1.96%	0.28%	1.87%
MY-2008	6,513	124	1.90%	0.60%	0.03%	1.73%	0.08%	1.67%
MY-2009	4,964	74	1.49%	0.24%	0.04%	1.29%	0.10%	1.23%
MY-2010	1,901	40	2.10%	0.68%	0.00%	1.63%	0.47%	1.58%
MY-2011	55	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	931,905	112,478	12.07%	6.49%	1.56%	7.40%	1.44%	4.54%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	388
Certificate of Non Compliance	0
Parts Cost	286
Hardship Extensions	1
Exempt Vehicle	47
Exempted by Directive	33
Parts Exemption	9
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	31
	<b>795</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,040
Stations Locked-Out at Least Once	406
Stations Conducted at Least One Test	7,080

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,973	6,236
EA	Gas Endorsement	10	0
EB	Both Endorsement	44	0
EB	Gas Endorsement	474	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	490,288	48.37	68,232	49.20	558,520	48.47
Test and Repair	170,705	46.69	89,927	46.93	260,632	46.77
Test and Repair Dealer	29	57.38	4,909	51.40	4,938	51.44
Referee	178	30.00	58	30.00	236	30.00
Gold Shield in Enhanced Area	53,756	48.01	8,496	49.45	62,252	48.20
Gold Shield in Basic Area	542	64.54	11,035	36.87	11,577	38.17
Gold Shield in COO Area	653	54.36	4,445	53.40	5,098	53.53

**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	5,855	22.69	<b>21,252</b>	<b>229.44</b>
	\$51-150	5,378	100.27		
	\$151-250	3,227	200.01		
	\$251-450	4,003	338.46		
	Over \$450	2,789	790.12		
CAP Repairs	\$1-50	100	24.45	<b>5,480</b>	<b>413.97</b>
	\$51-150	261	110.97		
	\$151-250	453	205.22		
	\$251-450	1,767	358.77		
	Over \$450	2,899	520.96		
Total Repairs	\$1-50	4,509	23.02	<b>22,380</b>	<b>319.24</b>
	\$51-150	3,897	99.93		
	\$151-250	3,010	201.89		
	\$251-450	5,056	345.40		
	Over \$450	5,908	727.38		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	5,124	413.97

**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 Basic Area	2	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	44	7	0	0	4	3	6	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	37	4	3	0	1	3	3	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	368	70	10	7	28	43	39	13
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	516	77	7	4	28	38	47	7
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	39,159	8,228	946	390	3,055	4,479	4,998	1,005
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	92	2	1	45	36	57	2
Acceleration Simulation Mode (ASM)	Enhanced	Referee	122	115	32	44	23	62	67	69
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	122,383	10,122	898	475	5,567	3,987	7,215	996
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	397,178	66,988	8,971	3,527	22,003	40,226	38,673	7,592
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	69	27	5	0	5	20	9	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	33	11	1	1	2	9	3	3
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	3,261	800	91	41	279	449	480	80
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Referee	5	11	2	5	2	7	5	7
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	19,338	3,292	406	139	1,045	1,992	1,799	343
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	15	4	0	0	1	2	1	1
Acceleration Simulation Mode (ASM)	Partial	Test Only	11,913	2,064	273	116	645	1,271	1,132	219
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Basic Area	2	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	10	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,677	308	44	26	115	172	185	56
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	210	29	0	31	170	50	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	16	9	0	5	0	4	2	5
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	12,634	1,058	106	87	524	464	697	163
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	13,487	1,826	306	130	737	1,024	1,123	252
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	8,499	1,404	206	134	520	444	960	317
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	141	19	2	0	9	7	13	1
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,272	241	53	17	91	92	177	34
Two Speed Idle (TSI)	Basic	Government Fleet	0	5	0	0	3	1	4	0
Two Speed Idle (TSI)	Basic	Referee	9	19	2	8	4	4	14	11
Two Speed Idle (TSI)	Basic	Test and Repair	50,127	5,204	758	313	2,042	1,737	3,722	772
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,620	161	15	11	73	46	110	25
Two Speed Idle (TSI)	Basic	Test Only	9,615	1,286	227	80	521	456	867	207
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	68	15	2	4	2	6	10	4
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,981	430	113	27	106	217	256	63
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	127	23	3	2	7	7	17	4
Two Speed Idle (TSI)	Change of Ownership	Referee	0	3	1	2	0	2	2	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,458	180	35	18	54	79	127	37
Two Speed Idle (TSI)	Change of Ownership	Test Only	907	168	36	10	56	71	123	22
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	448	56	9	7	30	16	40	12
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	555	40	6	0	22	15	28	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	5,462	572	81	27	303	159	428	72
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	18	4	2	8	7	10	3
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	15	2	1	0	0	1	1	0
Two Speed Idle (TSI)	Enhanced	Referee	38	10	0	7	3	2	3	7
Two Speed Idle (TSI)	Enhanced	Test and Repair	22,369	1,200	139	50	757	268	971	116
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	421	12	1	0	10	1	10	1
Two Speed Idle (TSI)	Enhanced	Test Only	48,171	3,896	533	177	2,363	1,042	2,941	376
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	49	4	0	0	1	1	3	2

	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	327	47	5	3	30	8	39	6
Two Speed Idle (TSI)	Partial	Test and Repair	2,396	209	31	14	101	57	157	33
Two Speed Idle (TSI)	Partial	Test Only	1,299	128	21	9	62	42	82	20
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	376	72	13	12	24	30	47	22
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,055	122	31	12	44	52	79	23
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	386	45	8	4	20	11	35	12
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	3	1	0	2	1	2	0
Two Speed Idle (TSI)	Unknown Program	Referee	2	6	2	4	1	3	4	6
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,077	418	56	30	222	114	334	55
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	502	16	0	0	12	2	14	0
Two Speed Idle (TSI)	Unknown Program	Test Only	3,450	265	44	19	144	90	190	39
UnKnown TestType	Basic	Gold Shield in Basic Area	308	25	0	6	17	25	17	9
UnKnown TestType	Basic	Gold Shield in COO Area	15	1	0	0	1	1	1	0
UnKnown TestType	Basic	Gold Shield in Enhanced Area	80	9	0	0	8	9	8	1
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	2	0	0
UnKnown TestType	Basic	Referee	3	16	0	8	0	16	0	8
UnKnown TestType	Basic	Test and Repair	2,122	87	0	17	55	91	55	35
UnKnown TestType	Basic	Test and Repair Dealer	345	10	0	2	5	11	5	5
UnKnown TestType	Basic	Test Only	346	19	0	5	10	19	10	9
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	86	6	0	2	4	6	4	2
UnKnown TestType	Change of Ownership	Referee	0	2	0	0	0	2	0	0
UnKnown TestType	Change of Ownership	Test and Repair	63	4	0	0	3	4	3	1
UnKnown TestType	Change of Ownership	Test Only	20	1	0	0	1	1	1	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	29	5	0	0	4	5	4	2
UnKnown TestType	Enhanced	Gold Shield in COO Area	42	1	0	1	0	1	0	1
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	968	63	0	10	47	71	47	17
UnKnown TestType	Enhanced	Government Fleet	0	1	0	0	1	22	1	0
UnKnown TestType	Enhanced	Referee	25	55	0	35	1	55	1	36
UnKnown TestType	Enhanced	Test and Repair	3,387	127	0	20	94	173	94	38

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
UnKnown TestType	Enhanced	Test Only	5,624	268	0	50	188	273	188	91
UnKnown TestType	Partial	Gold Shield in Basic Area	11	1	0	0	1	1	1	0
UnKnown TestType	Partial	Gold Shield in Enhanced Area	196	5	0	1	3	6	3	2
UnKnown TestType	Partial	Referee	2	4	0	3	0	4	0	3
UnKnown TestType	Partial	Test and Repair	1,043	43	0	14	24	45	24	20
UnKnown TestType	Partial	Test Only	453	16	0	4	11	17	11	5
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	18	1	0	0	0	1	0	1
UnKnown TestType	Unknown Program	Gold Shield in COO Area	86	2	0	1	1	2	1	1
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	67	7	0	0	6	7	6	1
UnKnown TestType	Unknown Program	Government Fleet	0	1	0	0	1	13	1	0
UnKnown TestType	Unknown Program	Referee	22	22	0	15	0	22	0	16
UnKnown TestType	Unknown Program	Test and Repair	413	17	0	3	10	29	10	7
UnKnown TestType	Unknown Program	Test and Repair Dealer	32	2	0	1	1	2	1	1
UnKnown TestType	Unknown Program	Test Only	373	13	0	4	8	19	8	6