

# Executive Summary Report

## SMOG CHECK Statewide

Second Quarter 2010

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	2,709,995	327,893	12.10%
Total	3,108,340	423,392	13.62%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	2,349,656	86.70%	360,339	13.30%
Total	2,639,061	84.90%	469,279	15.10%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	1,434,439	86.27%	228,252	13.73%
Total	1,623,915	85.17%	282,781	14.83%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	42,406	1.56%
All Emissions	174,632	6.44%
All Visual	39,320	1.45%
All Functional	203,757	7.52%
OBDII	124,389	4.59%
Overall	327,893	12.10%

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

	Initial Tests	Certificates Issued
Volunteers	968,059	876,419
Directed Vehicles	694,632	558,020
Total	1,662,691	1,434,439

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	174,824	152,345
Directed Vehicles	61,011	44,756
Total	235,835	197,101

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,759	278	542	27	0	4,606
Test Only	2,470	47	23	1	0	2,541
Basic Area Dealer	0	1	106	0	0	107
Gold Shield	482	27	49	79	0	637
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	30	1	5	0	0	36
Referee	36	0	6	1	0	43
Government Fleet	247	9	37	2	0	295
Unknown Type	1	0	0	0	0	1
Total	7,028	363	768	110	0	8,269

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	2,170,850	268,859	12.38%	33,945	1.56%
Partially Enhanced	137,574	19,078	13.87%	2,397	1.74%
Basic	246,273	24,557	9.97%	3,703	1.50%
Change of Ownership	16,634	2,404	14.45%	547	3.29%
No Program	15	2	13.33%	0	0.00%
Unknown Program	138,649	12,993	9.37%	1,814	1.31%
Total Program Area	2,709,995	327,893	12.10%	42,406	1.56%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	1,662,691	224,295	13.49%	30,233	1.82%
Regular	782,964	64,016	8.18%	7,037	0.90%
Basic Area Dealer	15,507	601	3.88%	49	0.32%
Gold Shield in Enhanced Area	186,557	30,322	16.25%	3,715	1.99%
Gold Shield in Basic Area	33,952	4,754	14.00%	753	2.22%
Gold Shield in COO Area	15,326	2,081	13.58%	429	2.80%
Business Fleet	28	0	0.00%	0	0.00%
Permanent Fleet Registered	94	10	10.64%	1	1.06%
Referee	1,603	877	54.71%	104	6.49%
Government Fleet	11,273	937	8.31%	85	0.75%
Total	2,709,995	327,893	12.10%	42,406	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-1933	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-1967	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1968	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
MY-1972	2	2	100.00%	100.00%	0.00%	50.00%	100.00%	0.00%
MY-1974	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	3,581	954	26.64%	18.82%	8.71%	14.91%	7.40%	0.00%
MY-1977	4,879	1,374	28.16%	19.43%	8.14%	16.44%	7.85%	0.00%
MY-1978	5,577	1,523	27.31%	18.59%	7.41%	15.47%	8.05%	0.00%
MY-1979	5,551	1,729	31.15%	22.34%	8.76%	18.18%	8.41%	0.00%
MY-1980	3,578	976	27.28%	20.07%	9.75%	15.06%	7.91%	0.00%
MY-1981	4,149	1,254	30.22%	24.73%	10.22%	14.82%	8.05%	0.00%
MY-1982	4,855	1,442	29.70%	24.00%	9.31%	15.76%	7.95%	0.00%
MY-1983	6,940	2,170	31.27%	24.78%	9.51%	16.43%	8.05%	0.00%
MY-1984	11,981	3,829	31.96%	26.64%	10.50%	15.57%	7.73%	0.00%
MY-1985	15,917	4,865	30.56%	24.97%	9.55%	15.19%	6.40%	0.00%
MY-1986	22,120	6,546	29.59%	23.35%	8.77%	14.91%	5.69%	0.00%
MY-1987	25,977	7,902	30.42%	24.61%	8.23%	14.34%	5.32%	0.00%
MY-1988	32,961	9,325	28.29%	22.68%	7.17%	13.39%	4.69%	0.00%
MY-1989	42,873	11,439	26.68%	20.70%	6.09%	13.14%	4.16%	0.00%
MY-1990	53,913	13,780	25.56%	20.47%	5.66%	11.81%	3.54%	0.00%
MY-1991	63,589	15,705	24.70%	19.74%	5.21%	11.30%	3.06%	0.00%
MY-1992	65,295	15,369	23.54%	18.67%	4.85%	10.13%	2.89%	0.00%
MY-1993	78,750	20,272	25.74%	21.05%	4.46%	10.38%	3.03%	0.00%
MY-1994	102,964	22,296	21.65%	16.78%	3.07%	8.88%	2.64%	0.00%
MY-1995	100,253	21,143	21.09%	16.32%	2.95%	8.67%	2.51%	0.00%
MY-1996	140,068	22,904	16.35%	7.40%	1.16%	10.99%	1.52%	10.12%
MY-1997	123,429	20,499	16.61%	6.74%	1.10%	11.97%	1.46%	11.17%
MY-1998	192,537	22,230	11.55%	3.98%	0.67%	8.51%	1.12%	8.06%
MY-1999	152,736	17,473	11.44%	3.22%	0.60%	9.08%	1.09%	8.73%
MY-2000	311,688	25,900	8.31%	1.68%	0.35%	6.96%	0.69%	6.73%
MY-2001	129,940	12,356	9.51%	1.60%	0.36%	8.35%	0.75%	8.17%
MY-2002	344,010	19,314	5.61%	0.74%	0.16%	4.89%	0.51%	4.77%
MY-2003	99,164	6,009	6.06%	1.18%	0.22%	5.24%	0.57%	5.13%
MY-2004	387,910	12,992	3.35%	0.41%	0.08%	2.93%	0.31%	2.84%
MY-2005	51,885	1,649	3.18%	0.93%	0.09%	2.62%	0.40%	2.52%
MY-2006	55,743	1,370	2.46%	0.59%	0.07%	2.01%	0.31%	1.94%
MY-2007	25,572	557	2.18%	0.53%	0.03%	1.88%	0.25%	1.79%
MY-2008	19,794	390	1.97%	0.57%	0.03%	1.80%	0.11%	1.73%
MY-2009	15,060	247	1.64%	0.37%	0.03%	1.49%	0.06%	1.39%
MY-2010	4,670	107	2.29%	0.88%	0.00%	1.63%	0.60%	1.50%
MY-2011	79	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	2,709,995	327,893	12.10%	6.44%	1.56%	7.52%	1.45%	4.59%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	1,120
Certificate of Non Compliance	1
Parts Cost	791
Hardship Extensions	3
Exempt Vehicle	138
Exempted by Directive	114
Parts Exemption	29
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	82
	<b>2,278</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	982
Stations Locked-Out at Least Once	850
Stations Conducted at Least One Test	7,287

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,526	6,124
EA	Gas Endorsement	10	0
EB	Both Endorsement	50	0
EB	Gas Endorsement	495	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	1,432,318	48.36	197,951	49.24	1,630,269	48.46
Test and Repair	500,024	46.96	257,019	46.69	757,043	46.87
Test and Repair Dealer	89	63.54	14,014	52.77	14,103	52.84
Referee	482	30.00	198	30.00	680	30.00
Gold Shield in Enhanced Area	157,464	48.21	24,839	49.44	182,303	48.38
Gold Shield in Basic Area	1,540	63.74	31,364	37.76	32,904	38.98
Gold Shield in COO Area	1,745	55.32	12,896	53.24	14,641	53.49

### 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	17,498	22.79	<b>62,611</b>	<b>228.00</b>
	\$51-150	15,803	100.41		
	\$151-250	9,654	199.86		
	\$251-450	11,479	337.52		
	Over \$450	8,177	793.17		
CAP Repairs	\$1-50	260	23.95	<b>15,449</b>	<b>415.93</b>
	\$51-150	660	107.80		
	\$151-250	1,316	205.02		
	\$251-450	4,998	358.76		
	Over \$450	8,215	521.65		
Total Repairs	\$1-50	13,665	23.06	<b>65,818</b>	<b>314.51</b>
	\$51-150	11,638	100.12		
	\$151-250	9,087	201.49		
	\$251-450	14,297	345.18		
	Over \$450	17,131	727.01		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	14,463	415.93

### 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	6	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	27	3	1	0	2	1	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	Referee	1	2	1	1	0	1	1	2
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	109	15	2	0	5	9	11	0
Acceleration Simulation Mode (ASM)	Basic	Test Only	119	21	3	1	8	14	14	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in COO Area	6	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	0	2	0	0	0	1	2	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	12	4	1	0	2	3	2	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	16	1	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	1,054	208	28	14	65	128	106	36
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	1,341	223	22	8	82	117	137	21
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	115,099	24,131	2,860	1,201	8,984	12,968	14,853	3,032
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	246	3	2	130	86	162	3
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	23	7	0	0	6	1	6	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	343	324	77	116	68	183	174	169
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	358,865	29,800	2,594	1,541	16,547	11,433	21,509	3,192
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	31	2	1	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	1,159,069	195,330	26,135	10,266	64,557	116,357	114,272	22,374
Acceleration Simulation Mode (ASM)	No Program	Test and Repair	3	1	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	192	72	10	1	24	41	39	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	114	24	2	1	8	17	11	3
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	9,639	2,260	269	106	838	1,208	1,408	240

	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	Government Fleet	0	3	0	0	2	1	2	0
Acceleration Simulation Mode (ASM)	Partial	Referee	17	27	5	13	6	15	13	19
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	55,130	9,263	1,122	454	3,023	5,357	5,350	984
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	43	5	0	0	2	3	2	1
Acceleration Simulation Mode (ASM)	Partial	Test Only	35,094	6,070	813	350	1,926	3,612	3,405	671
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Basic Area	4	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	27	5	0	0	4	1	4	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	4,712	897	137	85	345	478	564	157
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	611	73	2	114	462	169	6
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	44	20	3	10	3	10	10	13
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	37,418	3,183	345	245	1,582	1,377	2,159	440
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	38,743	5,351	839	403	2,158	3,001	3,372	782
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	24,188	4,000	647	341	1,501	1,300	2,747	830
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	428	56	7	2	29	16	40	5
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,727	686	134	37	272	252	504	89
Two Speed Idle (TSI)	Basic	Government Fleet	0	14	0	0	9	2	12	0
Two Speed Idle (TSI)	Basic	Referee	45	58	9	24	14	16	41	39
Two Speed Idle (TSI)	Basic	Test and Repair	142,166	14,984	2,235	861	5,902	4,955	10,851	2,032
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	10,358	463	45	28	194	141	308	68
Two Speed Idle (TSI)	Basic	Test Only	27,802	3,728	619	229	1,485	1,328	2,506	598
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	199	49	12	7	17	22	32	12
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	5,815	1,199	298	87	328	596	721	169
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	380	83	19	8	21	37	56	16
Two Speed Idle (TSI)	Change of Ownership	Referee	3	8	2	5	4	3	6	7

	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)	Change of Ownership	Test and Repair	4,247	533	95	46	178	217	383	91
Two Speed Idle (TSI)	Change of Ownership	Test Only	2,770	477	119	28	145	217	312	67
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	1,222	118	15	10	57	37	86	17
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	1,541	136	18	10	65	48	97	18
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	15,865	1,737	249	79	925	496	1,310	197
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	45	7	2	19	14	30	4
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	37	2	1	0	0	1	1	0
Two Speed Idle (TSI)	Enhanced	Referee	105	34	4	17	10	8	12	20
Two Speed Idle (TSI)	Enhanced	Test and Repair	64,754	3,525	397	178	2,221	792	2,815	368
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	1,200	39	3	0	30	5	34	1
Two Speed Idle (TSI)	Enhanced	Test Only	139,543	11,299	1,531	509	6,832	3,032	8,557	1,043
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	127	17	5	1	9	6	13	3
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	119	15	2	0	9	4	11	2
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	984	155	27	11	79	44	116	24
Two Speed Idle (TSI)	Partial	Referee	3	1	1	0	1	1	1	1
Two Speed Idle (TSI)	Partial	Test and Repair	6,705	565	79	28	277	172	424	64
Two Speed Idle (TSI)	Partial	Test Only	3,815	326	62	19	166	105	220	45
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	1,044	209	35	31	81	73	145	49
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	3,038	380	79	43	149	158	255	66
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	1,100	122	19	4	61	38	92	17
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	11	2	0	5	5	6	0
Two Speed Idle (TSI)	Unknown Program	Referee	12	15	2	9	5	5	11	11
Two Speed Idle (TSI)	Unknown Program	Test and Repair	14,695	1,214	167	85	639	344	941	162
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	1,459	46	0	4	31	5	37	4
Two Speed Idle (TSI)	Unknown Program	Test Only	9,729	728	112	56	418	225	539	100
Unknown TestType	Basic	Gold Shield in Basic Area	798	68	0	13	45	68	45	25
Unknown TestType	Basic	Gold Shield in COO Area	37	2	0	0	2	2	2	0
Unknown TestType	Basic	Gold Shield in Enhanced Area	218	19	0	1	17	19	17	3
Unknown TestType	Basic	Government Fleet	0	0	0	0	0	2	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
UnKnown TestType	Basic	Referee	12	50	0	25	1	50	1	26
UnKnown TestType	Basic	Test and Repair	5,365	295	0	39	214	307	214	94
UnKnown TestType	Basic	Test and Repair Dealer	980	31	0	7	18	35	18	13
UnKnown TestType	Basic	Test Only	851	60	0	12	41	60	41	22
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	248	24	0	7	15	24	15	9
UnKnown TestType	Change of Ownership	Referee	1	7	0	1	0	7	0	1
UnKnown TestType	Change of Ownership	Test and Repair	146	7	0	1	5	7	5	2
UnKnown TestType	Change of Ownership	Test Only	61	2	0	0	2	2	2	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	77	7	0	0	5	7	5	3
UnKnown TestType	Enhanced	Gold Shield in COO Area	114	5	0	2	2	6	2	3
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	2,598	186	0	28	146	212	146	45
UnKnown TestType	Enhanced	Government Fleet	0	3	0	0	3	46	3	0
UnKnown TestType	Enhanced	Referee	62	228	0	126	6	228	13	138
UnKnown TestType	Enhanced	Test and Repair	9,131	426	0	71	326	536	326	120
UnKnown TestType	Enhanced	Test and Repair Dealer	116	4	0	1	1	4	1	3
UnKnown TestType	Enhanced	Test Only	14,632	794	0	122	603	831	603	218
UnKnown TestType	Partial	Gold Shield in Basic Area	23	1	0	0	1	1	1	0
UnKnown TestType	Partial	Gold Shield in COO Area	18	1	0	0	1	1	1	0
UnKnown TestType	Partial	Gold Shield in Enhanced Area	472	24	0	5	17	25	17	7
UnKnown TestType	Partial	Referee	5	30	0	14	2	30	3	14
UnKnown TestType	Partial	Test and Repair	2,703	156	0	41	96	163	96	65
UnKnown TestType	Partial	Test and Repair Dealer	48	1	0	1	0	1	0	1
UnKnown TestType	Partial	Test Only	1,152	60	0	12	44	62	44	18
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	58	3	0	1	0	3	0	3
UnKnown TestType	Unknown Program	Gold Shield in COO Area	224	10	0	5	4	11	4	6
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	195	17	0	0	16	20	16	2
UnKnown TestType	Unknown Program	Government Fleet	0	2	0	0	2	35	2	0
UnKnown TestType	Unknown Program	Referee	66	72	0	51	0	72	0	55
UnKnown TestType	Unknown Program	Test and Repair	1,281	45	0	11	31	78	31	17

	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	Unknown Program	Test and Repair Dealer	88	4	0	2	2	8	2	2
UnKnown TestType	Unknown Program	Test Only	1,036	47	0	11	33	58	33	16