

# Executive Summary Report

## SMOG CHECK Statewide

Third Quarter 2010

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	2,784,088	345,127	12.40%
Total	3,206,177	446,662	13.93%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	2,412,717	86.66%	371,371	13.34%
Total	2,719,619	84.82%	486,558	15.18%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	1,492,295	86.08%	241,323	13.92%
Total	1,694,803	84.96%	300,103	15.04%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	42,272	1.52%
All Emissions	179,689	6.45%
All Visual	38,637	1.39%
All Functional	214,829	7.72%
OBDII	138,526	4.98%
Overall	345,127	12.40%

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

	Initial Tests	Certificates Issued
Volunteers	1,003,708	903,564
Directed Vehicles	729,910	588,731
Total	1,733,618	1,492,295

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	171,986	149,560
Directed Vehicles	61,089	45,299
Total	233,075	194,859

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,724	279	543	27	0	4,573
Test Only	2,496	46	22	1	0	2,565
Basic Area Dealer	0	1	106	0	0	107
Gold Shield	482	26	50	79	0	637
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	7,019	362	768	110	0	8,259

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	2,232,287	283,500	12.70%	33,984	1.52%
Partially Enhanced	140,552	19,959	14.20%	2,472	1.76%
Basic	255,585	25,761	10.08%	3,580	1.40%
Change of Ownership	16,638	2,520	15.15%	571	3.43%
No Program	12	1	8.33%	0	0.00%
Unknown Program	139,014	13,386	9.63%	1,665	1.20%
Total Program Area	2,784,088	345,127	12.40%	42,272	1.52%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	1,733,618	237,519	13.70%	30,451	1.76%
Regular	793,560	68,821	8.67%	6,881	0.87%
Basic Area Dealer	15,823	622	3.93%	45	0.28%
Gold Shield in Enhanced Area	182,293	29,675	16.28%	3,536	1.94%
Gold Shield in Basic Area	35,232	4,972	14.11%	749	2.13%
Gold Shield in COO Area	15,550	2,105	13.54%	448	2.88%
Business Fleet	22	0	0.00%	0	0.00%
Permanent Fleet Registered	258	27	10.47%	2	0.78%
Referee	1,344	691	51.41%	112	8.33%
Government Fleet	6,388	695	10.88%	48	0.75%
Total	2,784,088	345,127	12.40%	42,272	1.52%

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-1960	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1971	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1973	1	1	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
MY-1975	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	3,269	903	27.62%	19.82%	8.29%	14.87%	7.59%	0.00%
MY-1977	4,594	1,268	27.60%	19.63%	7.44%	15.43%	7.75%	0.00%
MY-1978	5,222	1,510	28.92%	20.30%	9.33%	16.32%	8.00%	0.00%
MY-1979	5,738	1,628	28.37%	20.86%	8.10%	16.03%	7.20%	0.00%
MY-1980	3,393	919	27.09%	19.78%	9.34%	14.85%	7.84%	0.00%
MY-1981	4,048	1,228	30.34%	24.51%	9.81%	14.82%	8.13%	0.00%
MY-1982	4,475	1,410	31.51%	24.83%	9.88%	15.15%	7.89%	0.00%
MY-1983	6,462	1,944	30.08%	24.05%	9.04%	14.53%	7.15%	0.00%
MY-1984	11,269	3,637	32.27%	26.62%	11.01%	15.61%	7.34%	0.00%
MY-1985	15,508	4,842	31.22%	25.80%	9.81%	14.81%	6.04%	0.00%
MY-1986	23,042	6,767	29.37%	23.43%	8.37%	13.94%	5.42%	0.00%
MY-1987	25,319	7,737	30.56%	25.06%	8.43%	13.91%	5.33%	0.00%
MY-1988	32,020	9,194	28.71%	23.32%	7.23%	13.03%	4.70%	0.00%
MY-1989	44,011	11,444	26.00%	20.59%	5.75%	12.26%	3.91%	0.00%
MY-1990	52,914	13,678	25.85%	20.82%	5.85%	11.66%	3.24%	0.00%
MY-1991	64,064	15,794	24.65%	19.92%	5.08%	10.63%	3.03%	0.00%
MY-1992	64,457	15,845	24.58%	19.84%	5.12%	10.08%	2.94%	0.00%
MY-1993	78,632	20,629	26.23%	21.57%	4.43%	10.20%	2.94%	0.00%
MY-1994	102,525	22,718	22.16%	17.47%	3.09%	8.75%	2.52%	0.00%
MY-1995	103,145	22,046	21.37%	16.66%	2.89%	8.35%	2.45%	0.00%
MY-1996	134,061	21,604	16.12%	7.44%	1.18%	10.62%	1.52%	9.83%
MY-1997	123,961	20,164	16.27%	6.87%	1.14%	11.39%	1.39%	10.66%
MY-1998	201,084	23,355	11.61%	4.22%	0.69%	8.33%	1.10%	7.88%
MY-1999	145,004	16,447	11.34%	3.42%	0.59%	8.88%	1.05%	8.50%
MY-2000	329,308	26,755	8.12%	1.78%	0.35%	6.63%	0.70%	6.41%
MY-2001	128,529	15,674	12.19%	1.80%	0.35%	10.97%	0.82%	10.83%
MY-2002	378,154	26,213	6.93%	0.80%	0.16%	6.20%	0.52%	6.11%
MY-2003	99,841	7,264	7.28%	1.33%	0.19%	6.44%	0.62%	6.36%
MY-2004	412,907	17,245	4.18%	0.44%	0.08%	3.72%	0.32%	3.65%
MY-2005	51,798	2,302	4.44%	1.26%	0.06%	3.87%	0.45%	3.79%
MY-2006	57,439	1,647	2.87%	0.73%	0.05%	2.39%	0.30%	2.35%
MY-2007	26,822	587	2.19%	0.43%	0.01%	1.91%	0.15%	1.89%
MY-2008	19,592	372	1.90%	0.63%	0.02%	1.62%	0.13%	1.56%
MY-2009	13,541	216	1.60%	0.30%	0.02%	1.41%	0.06%	1.31%
MY-2010	7,330	134	1.83%	0.38%	0.04%	1.49%	0.23%	1.38%
MY-2011	605	6	0.99%	0.00%	0.00%	0.99%	0.00%	0.99%
All Model Years	2,784,088	345,127	12.40%	6.45%	1.52%	7.72%	1.39%	4.98%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	1,159
Certificate of Non Compliance	1
Parts Cost	855
Hardship Extensions	5
Exempt Vehicle	108
Exempted by Directive	34
Parts Exemption	40
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	66
	<b>2,268</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	954
Stations Locked-Out at Least Once	1,053
Stations Conducted at Least One Test	7,305

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,661	6,037
EA	Gas Endorsement	10	0
EB	Both Endorsement	49	0
EB	Gas Endorsement	492	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	1,492,026	47.95	202,946	48.73	1,694,972	48.05
Test and Repair	504,144	46.77	260,217	46.85	764,361	46.80
Test and Repair Dealer	131	67.46	14,264	53.37	14,395	53.50
Referee	536	30.00	198	30.00	734	30.00
Gold Shield in Enhanced Area	153,979	47.87	23,646	49.46	177,625	48.08
Gold Shield in Basic Area	1,447	63.51	32,643	38.90	34,090	39.95
Gold Shield in COO Area	2,019	55.90	12,867	54.48	14,886	54.67

### 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	16,296	23.11	<b>60,421</b>	<b>236.12</b>
	\$51-150	15,121	100.50		
	\$151-250	9,278	200.27		
	\$251-450	11,425	337.67		
	Over \$450	8,301	801.63		
CAP Repairs	\$1-50	298	25.20	<b>15,839</b>	<b>421.20</b>
	\$51-150	619	107.08		
	\$151-250	1,211	206.92		
	\$251-450	4,996	358.89		
	Over \$450	8,715	522.55		
Total Repairs	\$1-50	12,527	23.57	<b>63,911</b>	<b>327.61</b>
	\$51-150	11,004	100.17		
	\$151-250	8,530	201.88		
	\$251-450	14,197	344.94		
	Over \$450	17,653	731.96		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	14,734	421.20

### 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	19	8	1	0	2	5	3	0
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	20	4	1	0	2	3	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
Acceleration Simulation Mode (ASM)	Basic	Referee	0	2	2	0	0	2	1	2
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	121	13	2	3	5	7	11	3
Acceleration Simulation Mode (ASM)	Basic	Test Only	81	24	3	0	12	15	14	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	15	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	15	4	1	0	1	1	3	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	977	192	23	7	54	108	96	25
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	1,374	289	40	19	102	160	161	42
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	112,688	23,941	2,799	1,168	9,133	12,779	14,705	3,020
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	291	11	2	165	107	189	4
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	105	17	0	0	15	1	16	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	318	419	66	152	93	222	220	211
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	359,465	32,391	2,507	1,555	19,211	11,495	23,722	3,071
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	1,206,362	206,830	26,533	9,903	71,647	121,194	119,974	21,816
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	188	51	9	0	18	31	28	3
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	229	28	4	3	13	13	18	5
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	9,042	2,135	267	105	812	1,173	1,269	243
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	10	1	1	5	3	6	1
Acceleration Simulation Mode (ASM)	Partial	Referee	17	36	12	15	3	23	18	25
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	57,313	9,887	1,157	453	3,414	5,642	5,702	1,053
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	73	3	0	0	2	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
Acceleration Simulation Mode (ASM)	Partial	Test Only	34,982	6,439	848	377	2,186	3,691	3,723	737
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Basic Area	1	3	0	1	1	2	2	1
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	77	8	0	2	2	8	4	3
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	4,797	824	110	57	346	432	512	113
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	309	31	1	108	191	126	2
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	35	29	6	14	9	13	22	18
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	36,647	3,376	339	229	1,746	1,439	2,335	412
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	41,326	5,846	778	395	2,559	3,110	3,672	757
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	24,890	4,161	646	325	1,507	1,358	2,780	865
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	692	77	13	3	40	24	59	9
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,468	634	102	27	270	218	465	91
Two Speed Idle (TSI)	Basic	Government Fleet	0	7	0	0	4	1	6	0
Two Speed Idle (TSI)	Basic	Referee	44	73	14	34	13	31	43	48
Two Speed Idle (TSI)	Basic	Test and Repair	147,006	15,674	2,137	869	6,804	4,889	11,475	1,991
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	10,571	461	41	13	256	115	346	52
Two Speed Idle (TSI)	Basic	Test Only	29,314	3,995	618	230	1,731	1,380	2,764	575
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	174	57	7	7	18	20	40	13
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	5,664	1,147	289	76	351	555	742	158
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	348	86	21	13	32	36	64	22
Two Speed Idle (TSI)	Change of Ownership	Referee	5	7	3	3	1	4	4	5
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	4,318	701	140	52	262	267	530	118
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	116	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	2,739	478	110	38	168	203	322	71
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	1,461	185	25	28	95	46	139	33
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	1,432	151	18	8	84	43	122	14
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	15,266	1,543	203	64	919	388	1,214	161

	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)	Enhanced	Government Fleet	0	52	4	1	31	11	40	2
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	93	10	2	0	3	6	4	0
Two Speed Idle (TSI)	Enhanced	Referee	68	34	4	14	18	7	22	18
Two Speed Idle (TSI)	Enhanced	Test and Repair	61,808	3,709	348	180	2,526	711	3,030	317
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	1,152	43	0	3	38	1	40	3
Two Speed Idle (TSI)	Enhanced	Test Only	141,934	11,536	1,401	462	7,352	2,878	8,900	1,054
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	125	30	5	4	13	12	20	6
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	136	10	3	1	4	5	7	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	941	109	16	6	64	25	89	13
Two Speed Idle (TSI)	Partial	Government Fleet	0	3	1	0	0	2	1	0
Two Speed Idle (TSI)	Partial	Test and Repair	6,635	582	92	30	298	178	415	81
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	141	7	0	0	4	1	5	1
Two Speed Idle (TSI)	Partial	Test Only	3,747	334	57	19	174	108	236	36
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	1,189	187	33	33	78	56	129	54
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	3,078	352	81	25	129	168	242	53
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	1,190	136	17	5	86	33	108	10
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	22	0	1	17	3	19	0
Two Speed Idle (TSI)	Unknown Program	Referee	30	12	5	6	1	5	9	11
Two Speed Idle (TSI)	Unknown Program	Test and Repair	15,433	1,291	159	101	746	346	1,016	195
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	1,470	46	4	2	32	9	37	2
Two Speed Idle (TSI)	Unknown Program	Test Only	10,716	772	102	56	478	208	573	93
UnKnown TestType	Basic	Gold Shield in Basic Area	869	83	0	11	51	86	51	36
UnKnown TestType	Basic	Gold Shield in COO Area	50	5	0	1	3	5	3	3
UnKnown TestType	Basic	Gold Shield in Enhanced Area	246	23	0	6	13	23	13	11
UnKnown TestType	Basic	Government Fleet	0	1	0	0	1	8	1	0
UnKnown TestType	Basic	Referee	18	7	0	4	1	7	1	6
UnKnown TestType	Basic	Test and Repair	6,155	385	0	61	288	410	288	109
UnKnown TestType	Basic	Test and Repair Dealer	1,102	54	0	8	42	76	42	14
UnKnown TestType	Basic	Test Only	1,046	70	0	6	57	72	57	15

	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	Change of Ownership	Gold Shield in Basic Area	10	3	0	0	2	3	2	1
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	210	24	0	4	20	27	20	6
UnKnown TestType	Change of Ownership	Test and Repair	181	9	0	2	7	9	7	2
UnKnown TestType	Change of Ownership	Test Only	63	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Gold Shield in Basic Area	84	7	0	1	5	8	5	3
UnKnown TestType	Enhanced	Gold Shield in COO Area	133	8	0	1	8	8	8	1
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	2,766	198	0	30	150	218	150	62
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	78	0	0
UnKnown TestType	Enhanced	Referee	35	37	0	20	4	36	5	24
UnKnown TestType	Enhanced	Test and Repair	10,216	551	0	83	416	657	416	158
UnKnown TestType	Enhanced	Test and Repair Dealer	98	3	0	0	3	4	3	0
UnKnown TestType	Enhanced	Test Only	17,397	1,062	0	165	825	1,120	825	280
UnKnown TestType	Partial	Gold Shield in Basic Area	28	1	0	1	0	1	0	1
UnKnown TestType	Partial	Gold Shield in COO Area	24	1	0	1	0	2	0	1
UnKnown TestType	Partial	Gold Shield in Enhanced Area	471	31	0	2	23	32	23	9
UnKnown TestType	Partial	Referee	8	2	0	1	1	2	2	1
UnKnown TestType	Partial	Test and Repair	3,128	176	0	31	129	194	129	56
UnKnown TestType	Partial	Test and Repair Dealer	36	2	0	1	1	2	1	1
UnKnown TestType	Partial	Test Only	1,331	81	0	21	58	83	58	28
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	49	4	0	0	2	4	2	2
UnKnown TestType	Unknown Program	Gold Shield in COO Area	198	5	0	2	3	7	3	2
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	236	11	0	3	7	19	7	4
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	39	0	0
UnKnown TestType	Unknown Program	Referee	55	32	0	19	1	32	1	20
UnKnown TestType	Unknown Program	Test and Repair	1,339	73	0	13	50	118	50	26
UnKnown TestType	Unknown Program	Test and Repair Dealer	93	1	0	1	0	4	0	1
UnKnown TestType	Unknown Program	Test Only	1,235	47	0	4	38	69	38	9