

# Executive Summary Report

## SMOG CHECK Statewide

October 2010

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	819,964	101,589	12.39%
Total	946,556	131,002	13.84%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	707,189	86.25%	112,775	13.75%
Total	800,229	84.54%	146,327	15.46%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	445,286	85.99%	72,548	14.01%
Total	508,199	84.91%	90,281	15.09%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,337	1.50%
All Emissions	51,724	6.31%
All Visual	11,773	1.44%
All Functional	64,103	7.82%
OBDII	41,759	5.09%
Overall	101,589	12.39%

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

	Initial Tests	Certificates Issued
Volunteers	285,592	255,925
Directed Vehicles	232,242	189,361
Total	517,834	445,286

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	49,809	42,638
Directed Vehicles	19,281	14,636
Total	69,090	57,274

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,629	274	535	28	0	4,466
Test Only	2,428	44	24	1	0	2,497
Basic Area Dealer	0	1	103	0	0	104
Gold Shield	480	26	49	76	0	631
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	6,854	355	758	108	0	8,075

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	654,344	83,290	12.73%	9,985	1.53%
Partially Enhanced	42,269	5,955	14.09%	717	1.70%
Basic	74,991	7,531	10.04%	993	1.32%
Change of Ownership	5,254	773	14.71%	154	2.93%
No Program	5	2	40.00%	0	0.00%
Unknown Program	43,101	4,038	9.37%	488	1.13%
Total Program Area	819,964	101,589	12.39%	12,337	1.50%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	517,834	70,559	13.63%	9,060	1.75%
Regular	225,907	19,635	8.69%	1,952	0.86%
Basic Area Dealer	4,473	183	4.09%	14	0.31%
Gold Shield in Enhanced Area	53,556	8,637	16.13%	965	1.80%
Gold Shield in Basic Area	10,729	1,504	14.02%	187	1.74%
Gold Shield in COO Area	4,805	662	13.78%	97	2.02%
Business Fleet	5	0	0.00%	0	0.00%
Permanent Fleet Registered	77	8	10.39%	0	0.00%
Referee	424	210	49.53%	41	9.67%
Government Fleet	2,154	191	8.87%	21	0.97%
Total	819,964	101,589	12.39%	12,337	1.50%

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-1969	1	1	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%
MY-1970	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	854	242	28.34%	19.20%	8.08%	15.93%	7.61%	0.00%
MY-1977	1,388	385	27.74%	18.52%	8.00%	16.35%	7.28%	0.00%
MY-1978	1,462	404	27.63%	18.54%	7.32%	15.39%	7.87%	0.00%
MY-1979	1,832	551	30.08%	21.45%	8.57%	16.76%	9.12%	0.00%
MY-1980	1,009	296	29.34%	20.81%	8.42%	16.95%	8.13%	0.00%
MY-1981	1,190	363	30.50%	25.38%	9.83%	13.78%	6.89%	0.00%
MY-1982	1,471	429	29.16%	23.45%	9.18%	14.34%	7.82%	0.00%
MY-1983	1,667	518	31.07%	25.43%	9.78%	13.92%	6.42%	0.00%
MY-1984	3,198	1,017	31.80%	26.52%	10.91%	14.95%	7.41%	0.00%
MY-1985	4,408	1,372	31.13%	25.39%	9.78%	15.11%	6.94%	0.00%
MY-1986	6,583	1,919	29.15%	22.88%	8.05%	14.69%	5.32%	0.00%
MY-1987	7,647	2,220	29.03%	23.76%	7.61%	13.12%	5.10%	0.00%
MY-1988	9,195	2,646	28.78%	22.97%	7.03%	13.64%	4.70%	0.00%
MY-1989	12,881	3,382	26.26%	20.47%	5.74%	12.57%	4.42%	0.00%
MY-1990	15,046	3,848	25.57%	20.36%	5.78%	11.68%	3.54%	0.00%
MY-1991	19,619	4,860	24.77%	19.67%	4.96%	10.84%	3.14%	0.00%
MY-1992	18,823	4,492	23.86%	19.15%	5.00%	9.61%	3.04%	0.00%
MY-1993	23,508	6,110	25.99%	21.39%	4.43%	10.05%	2.79%	0.00%
MY-1994	28,786	6,359	22.09%	17.13%	3.38%	8.90%	2.57%	0.00%
MY-1995	31,336	6,659	21.25%	16.34%	3.01%	8.27%	2.58%	0.00%
MY-1996	37,299	6,125	16.42%	7.35%	1.06%	10.95%	1.60%	10.14%
MY-1997	35,933	5,834	16.24%	6.69%	1.20%	11.41%	1.53%	10.61%
MY-1998	59,211	6,739	11.38%	4.04%	0.64%	8.29%	1.00%	7.89%
MY-1999	41,085	4,585	11.16%	3.28%	0.60%	8.79%	1.11%	8.46%
MY-2000	97,094	8,167	8.41%	1.81%	0.40%	6.97%	0.76%	6.76%
MY-2001	40,451	4,894	12.10%	1.86%	0.39%	10.94%	0.86%	10.81%
MY-2002	113,695	8,317	7.32%	0.87%	0.17%	6.57%	0.59%	6.48%
MY-2003	30,519	2,155	7.06%	1.33%	0.20%	6.27%	0.61%	6.16%
MY-2004	118,050	5,105	4.32%	0.43%	0.08%	3.85%	0.38%	3.77%
MY-2005	16,073	682	4.24%	0.96%	0.08%	3.80%	0.35%	3.75%
MY-2006	16,866	499	2.96%	0.68%	0.08%	2.60%	0.30%	2.53%
MY-2007	8,306	188	2.26%	0.59%	0.02%	1.94%	0.26%	1.90%
MY-2008	6,187	114	1.84%	0.97%	0.05%	1.62%	0.11%	1.60%
MY-2009	3,970	63	1.59%	0.68%	0.03%	1.49%	0.05%	1.46%
MY-2010	2,920	46	1.58%	0.31%	0.00%	1.37%	0.21%	1.30%
MY-2011	399	3	0.75%	0.75%	0.00%	0.75%	0.00%	0.75%
All Model Years	819,964	101,589	12.39%	6.31%	1.50%	7.82%	1.44%	5.09%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	405
Certificate of Non Compliance	1
Parts Cost	197
Hardship Extensions	0
Exempt Vehicle	17
Exempted by Directive	4
Parts Exemption	17
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	3
	<b>644</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	963
Stations Locked-Out at Least Once	354
Stations Conducted at Least One Test	7,112

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,020	5,999
EA	Gas Endorsement	10	0
EB	Both Endorsement	48	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	442,404	47.82	63,097	49.18	505,501	47.99
Test and Repair	142,041	46.62	75,647	46.72	217,688	46.65
Test and Repair Dealer	27	65.56	4,042	53.13	4,069	53.21
Referee	180	30.00	60	30.00	240	30.00
Gold Shield in Enhanced Area	44,984	47.87	7,262	50.04	52,246	48.17
Gold Shield in Basic Area	470	64.62	9,880	40.31	10,350	41.41
Gold Shield in COO Area	589	52.85	4,000	53.58	4,589	53.48

**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	4,647	23.07	<b>17,643</b>	<b>242.38</b>
	\$51-150	4,387	100.50		
	\$151-250	2,730	200.79		
	\$251-450	3,289	339.42		
	Over \$450	2,590	796.77		
CAP Repairs	\$1-50	91	23.87	<b>3,929</b>	<b>423.86</b>
	\$51-150	176	104.97		
	\$151-250	290	204.29		
	\$251-450	1,125	362.76		
	Over \$450	2,247	523.96		
Total Repairs	\$1-50	3,743	23.49	<b>18,520</b>	<b>320.82</b>
	\$51-150	3,371	100.05		
	\$151-250	2,587	202.12		
	\$251-450	3,896	345.85		
	Over \$450	4,923	740.62		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	3,697	423.86

**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	4	1	0	1	0	1	1	1
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	26	4	1	0	1	3	3	1

	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	35	15	2	0	5	9	7	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	3	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	307	79	7	3	25	43	35	12
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	424	74	6	6	27	45	46	9
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	32,471	6,915	741	348	2,799	3,545	4,348	835
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	82	4	0	40	32	52	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	96	137	30	46	33	69	81	76
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	98,029	9,022	706	499	5,271	3,186	6,649	970
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	357,107	61,218	7,874	3,003	21,938	34,927	36,040	6,685
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	61	20	0	1	9	8	12	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	64	10	0	0	5	2	7	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,631	613	84	26	221	346	355	69
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	3	9	4	3	2	6	9	6
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,090	2,936	331	163	1,048	1,633	1,755	329
Acceleration Simulation Mode (ASM)	Partial	Test Only	10,600	1,951	254	119	656	1,108	1,109	249
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,388	291	33	24	127	129	196	48
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	74	9	0	26	46	29	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	16	9	1	2	3	4	7	4
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,158	1,004	104	66	508	438	683	130

	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	Test Only	12,784	1,724	240	123	788	875	1,112	242
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	7,546	1,228	158	119	482	358	814	279
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	243	46	5	3	24	7	36	9
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,053	169	25	12	68	56	123	28
Two Speed Idle (TSI)	Basic	Government Fleet	0	11	5	0	3	7	4	0
Two Speed Idle (TSI)	Basic	Referee	13	18	2	10	3	3	7	14
Two Speed Idle (TSI)	Basic	Test and Repair	42,550	4,545	601	229	1,984	1,369	3,352	578
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,986	143	13	5	79	35	111	21
Two Speed Idle (TSI)	Basic	Test Only	8,717	1,179	181	76	532	380	847	185
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	68	19	6	2	6	11	12	7
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,742	347	68	23	112	152	239	51
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	128	25	6	2	9	10	18	6
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,426	185	37	19	71	75	124	30
Two Speed Idle (TSI)	Change of Ownership	Test Only	860	185	37	9	65	79	126	29
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	433	58	7	12	26	15	41	13
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	438	46	4	3	24	15	33	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,637	488	68	15	306	126	380	47
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	14	3	1	9	3	11	1
Two Speed Idle (TSI)	Enhanced	Referee	19	12	1	5	6	3	7	7
Two Speed Idle (TSI)	Enhanced	Test and Repair	16,938	1,026	105	45	688	215	839	90
Two Speed Idle (TSI)	Enhanced	Test Only	44,426	3,613	429	143	2,397	862	2,855	313
Two Speed Idle (TSI)	No Program	Test and Repair	0	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	28	9	2	0	4	5	7	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	39	3	1	0	2	1	3	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	276	32	4	1	19	9	26	3
Two Speed Idle (TSI)	Partial	Test and Repair	2,010	183	25	8	107	46	145	20
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	43	2	0	0	1	1	1	0
Two Speed Idle (TSI)	Partial	Test Only	1,077	93	12	8	51	25	71	14
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	335	64	7	7	31	24	43	12

	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	Gold Shield in COO Area	881	122	13	17	56	37	89	26
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	377	34	4	3	18	11	28	7
Two Speed Idle (TSI)	Unknown Program	Referee	8	7	3	3	0	5	5	6
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,782	397	42	31	237	99	313	53
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	392	14	1	0	12	2	13	0
Two Speed Idle (TSI)	Unknown Program	Test Only	3,474	247	31	15	153	57	197	31
UnKnown TestType	Basic	Gold Shield in Basic Area	304	23	0	7	16	36	16	9
UnKnown TestType	Basic	Gold Shield in Enhanced Area	59	6	0	1	6	6	6	1
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	6	0	0
UnKnown TestType	Basic	Referee	7	2	0	1	1	2	1	2
UnKnown TestType	Basic	Test and Repair	1,774	108	0	10	95	138	95	16
UnKnown TestType	Basic	Test and Repair Dealer	318	12	0	2	9	13	9	3
UnKnown TestType	Basic	Test Only	310	21	0	2	18	22	18	3
UnKnown TestType	Change of Ownership	Gold Shield in Basic Area	0	1	0	0	0	1	0	1
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	73	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Gold Shield in Enhanced Area	8	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Change of Ownership	Test and Repair	46	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Gold Shield in Basic Area	18	2	0	0	1	2	1	1
UnKnown TestType	Enhanced	Gold Shield in COO Area	40	5	0	1	3	5	3	2
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	868	51	0	6	40	75	40	13
UnKnown TestType	Enhanced	Government Fleet	0	2	0	0	2	69	2	1
UnKnown TestType	Enhanced	Referee	10	8	0	4	0	8	0	5
UnKnown TestType	Enhanced	Test and Repair	3,075	147	0	21	110	231	110	44
UnKnown TestType	Enhanced	Test and Repair Dealer	32	0	0	0	0	1	0	0
UnKnown TestType	Enhanced	Test Only	5,064	275	0	34	223	293	223	62
UnKnown TestType	Partial	Gold Shield in Basic Area	3	1	0	0	1	1	1	0
UnKnown TestType	Partial	Gold Shield in Enhanced Area	149	6	0	1	4	9	4	2
UnKnown TestType	Partial	Government Fleet	0	1	0	0	1	6	1	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	Partial	Test and Repair	882	57	0	8	36	74	36	22
UnKnown TestType	Partial	Test Only	427	26	0	5	18	29	18	9
UnKnown TestType	Unknown Program	Gold Shield in COO Area	52	7	0	1	5	16	5	2
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	67	4	0	0	3	6	3	1
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	24	0	0
UnKnown TestType	Unknown Program	Referee	10	4	0	3	0	4	0	4
UnKnown TestType	Unknown Program	Test and Repair	399	18	0	2	16	49	16	4
UnKnown TestType	Unknown Program	Test and Repair Dealer	17	0	0	0	0	1	0	0
UnKnown TestType	Unknown Program	Test Only	370	11	0	1	8	32	8	3