

# Executive Summary Report

## SMOG CHECK Statewide

October 2011

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	835,091	100,052	11.98%
Total	958,306	127,607	13.32%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	724,371	86.74%	110,720	13.26%
Total	816,315	85.18%	141,991	14.82%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	465,409	86.41%	73,220	13.59%
Total	530,374	85.28%	91,562	14.72%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,221	1.34%
All Emissions	49,661	5.95%
All Visual	11,830	1.42%
All Functional	62,386	7.47%
OBDII	42,585	5.10%
Overall	100,052	11.98%

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

	Initial Tests	Certificates Issued
Volunteers	297,905	269,499
Directed Vehicles	240,724	195,910
Total	538,629	465,409

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	48,618	41,969
Directed Vehicles	20,393	15,438
Total	69,011	57,407

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,540	285	535	30	0	4,390
Test Only	2,592	46	27	1	0	2,666
Basic Area Dealer	0	1	104	0	0	105
Gold Shield	483	28	47	77	0	635
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	248	9	37	2	0	296
Unknown Type	1	0	0	0	0	1
Total	6,933	370	760	111	0	8,174

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	664,436	82,429	12.41%	9,053	1.36%
Partially Enhanced	42,439	5,741	13.53%	602	1.42%
Basic	76,012	7,155	9.41%	963	1.27%
Change of Ownership	5,504	695	12.63%	124	2.25%
No Program	6	1	16.67%	0	0.00%
Unknown Program	46,694	4,031	8.63%	479	1.03%
Total Program Area	835,091	100,052	11.98%	11,221	1.34%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	538,629	71,286	13.23%	8,192	1.52%
Regular	219,973	17,469	7.94%	1,714	0.78%
Basic Area Dealer	4,679	156	3.33%	6	0.13%
Gold Shield in Enhanced Area	53,262	8,681	16.30%	951	1.79%
Gold Shield in Basic Area	10,051	1,316	13.09%	180	1.79%
Gold Shield in COO Area	5,698	713	12.51%	117	2.05%
Business Fleet	1	0	0.00%	0	0.00%
Permanent Fleet Registered	94	3	3.19%	0	0.00%
Referee	492	244	49.59%	45	9.15%
Government Fleet	2,212	184	8.32%	16	0.72%
Total	835,091	100,052	11.98%	11,221	1.34%

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-1964	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1969	1	1	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%
MY-1976	792	237	29.92%	21.34%	8.71%	15.28%	8.46%	0.00%
MY-1977	1,163	309	26.57%	17.97%	6.45%	13.41%	7.22%	0.00%
MY-1978	1,351	346	25.61%	18.28%	8.07%	13.99%	6.81%	0.00%
MY-1979	1,598	467	29.22%	21.53%	7.88%	14.02%	6.57%	0.00%
MY-1980	939	238	25.35%	17.36%	8.73%	13.10%	8.09%	0.00%
MY-1981	1,062	315	29.66%	22.98%	8.19%	14.31%	7.34%	0.00%
MY-1982	1,217	376	30.90%	24.57%	10.60%	15.45%	8.13%	0.00%
MY-1983	1,468	464	31.61%	24.86%	9.40%	14.58%	7.97%	0.00%
MY-1984	2,972	924	31.09%	25.30%	9.69%	13.83%	6.90%	0.00%
MY-1985	3,855	1,268	32.89%	27.21%	9.88%	14.81%	6.04%	0.00%
MY-1986	5,687	1,581	27.80%	22.49%	7.90%	12.34%	5.12%	0.00%
MY-1987	6,636	1,931	29.10%	23.70%	7.90%	12.64%	5.08%	0.00%
MY-1988	7,673	2,132	27.79%	22.22%	6.80%	12.97%	4.94%	0.00%
MY-1989	10,881	2,875	26.42%	20.54%	6.01%	11.93%	4.26%	0.00%
MY-1990	12,735	3,301	25.92%	20.74%	5.92%	10.76%	3.64%	0.00%
MY-1991	17,011	4,289	25.21%	20.02%	5.00%	10.74%	3.29%	0.00%
MY-1992	16,138	3,982	24.67%	19.47%	4.81%	9.88%	3.04%	0.00%
MY-1993	21,726	5,613	25.84%	20.86%	4.24%	10.07%	3.04%	0.00%
MY-1994	24,727	5,922	23.95%	18.81%	3.45%	9.10%	2.82%	0.00%
MY-1995	36,852	7,566	20.53%	15.78%	2.55%	7.67%	2.52%	0.00%
MY-1996	25,036	4,873	19.46%	9.63%	1.49%	12.26%	2.12%	11.18%
MY-1997	46,964	7,125	15.17%	6.69%	1.03%	10.01%	1.46%	9.23%
MY-1998	36,294	5,193	14.31%	5.78%	0.93%	9.93%	1.47%	9.27%
MY-1999	62,608	6,261	10.00%	3.09%	0.50%	7.49%	1.10%	7.09%
MY-2000	41,813	4,520	10.81%	2.98%	0.60%	8.49%	1.15%	8.25%
MY-2001	100,158	10,086	10.07%	1.42%	0.28%	8.95%	0.79%	8.81%
MY-2002	36,058	3,505	9.72%	1.75%	0.31%	8.44%	0.87%	8.36%
MY-2003	110,290	6,949	6.30%	0.77%	0.16%	5.57%	0.57%	5.50%
MY-2004	29,407	1,670	5.68%	0.89%	0.14%	4.91%	0.60%	4.86%
MY-2005	112,271	4,392	3.91%	0.42%	0.09%	3.42%	0.37%	3.37%
MY-2006	18,665	603	3.23%	0.94%	0.09%	2.60%	0.47%	2.58%
MY-2007	16,109	395	2.45%	0.45%	0.04%	2.09%	0.22%	2.04%
MY-2008	8,011	151	1.88%	1.02%	0.05%	1.44%	0.25%	1.42%
MY-2009	4,022	54	1.34%	0.52%	0.02%	1.14%	0.10%	1.09%
MY-2010	6,331	68	1.07%	0.09%	0.03%	0.98%	0.05%	0.90%
MY-2011	4,023	59	1.47%	0.42%	0.00%	1.12%	0.17%	1.07%
MY-2012	546	11	2.01%	0.00%	0.00%	2.01%	0.00%	2.01%
All Model Years	835,091	100,052	11.98%	5.95%	1.34%	7.47%	1.42%	5.10%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	414
Certificate of Non Compliance	0
Parts Cost	154
Hardship Extensions	1
Exempt Vehicle	33
Exempted by Directive	5
Parts Exemption	5
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>612</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,027
Stations Locked-Out at Least Once	413
Stations Conducted at Least One Test	7,147

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,077	5,844
EA	Gas Endorsement	8	0
EB	Both Endorsement	43	0
EB	Gas Endorsement	464	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	454,452	47.42	71,294	48.21	525,746	47.53
Test and Repair	133,545	47.45	77,633	46.86	211,178	47.23
Test and Repair Dealer	36	61.11	4,258	51.63	4,294	51.71
Referee	211	30.00	83	30.00	294	30.00
Gold Shield in Enhanced Area	44,133	46.55	7,920	47.89	52,053	46.75
Gold Shield in Basic Area	451	62.57	9,276	41.65	9,727	42.62
Gold Shield in COO Area	1,263	54.41	4,201	52.99	5,464	53.32

**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	3,903	23.13	<b>15,241</b>	<b>282.78</b>
	\$51-150	3,098	99.14		
	\$151-250	2,342	200.75		
	\$251-450	3,016	339.87		
	Over \$450	2,882	838.76		
CAP Repairs	\$1-50	57	22.44	<b>2,246</b>	<b>447.65</b>
	\$51-150	122	109.26		
	\$151-250	160	207.78		
	\$251-450	614	360.73		
	Over \$450	1,293	569.28		
Total Repairs	\$1-50	3,172	23.46	<b>15,890</b>	<b>334.51</b>
	\$51-150	2,948	99.49		
	\$151-250	2,345	201.27		
	\$251-450	3,372	343.06		
	Over \$450	4,053	818.87		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	2,122	447.65

**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	13	3	0	0	1	1	2	0
Acceleration Simulation Mode (ASM)	Basic	Referee	0	1	1	0	0	1	1	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 and Repair	71	9	0	1	3	5	4	1
Acceleration Simulation Mode (ASM)	Basic	Test Only	89	13	1	0	4	8	5	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	1	1	1	0	1	1	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	9	3	1	0	2	1	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	316	60	5	4	17	35	33	9
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	957	180	19	6	69	96	98	19
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	31,568	6,797	724	400	2,892	3,357	4,298	928
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	93	4	1	42	39	53	4
Acceleration Simulation Mode (ASM)	Enhanced	Referee	108	143	25	47	38	80	82	67
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	91,098	7,502	648	431	4,133	2,849	5,279	813
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	366,555	61,434	7,032	3,128	23,350	33,759	35,869	6,757
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	60	14	0	0	3	11	4	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	59	8	0	0	4	4	4	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,815	695	81	42	279	337	444	98
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	7	14	2	7	4	6	7	10
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,710	2,688	254	142	1,004	1,429	1,578	311
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	13	3	0	0	1	2	1	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	10,767	1,905	229	104	712	1,048	1,097	204

	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	Gold Shield in COO Area	30	5	0	0	3	2	4	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,418	277	33	27	121	129	184	49
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	57	5	0	17	35	23	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	20	11	2	5	3	3	7	5
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,994	974	86	74	499	421	652	138
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	14,625	1,819	250	140	789	980	1,094	285
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	6,979	1,059	154	67	469	326	742	189
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	188	26	3	2	10	11	14	5
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,229	225	37	10	111	68	171	35
Two Speed Idle (TSI)	Basic	Referee	16	37	9	13	14	13	29	19
Two Speed Idle (TSI)	Basic	Test and Repair	43,149	4,235	547	230	2,002	1,265	3,150	558
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,195	115	6	6	56	21	89	14
Two Speed Idle (TSI)	Basic	Test Only	9,609	1,287	205	84	577	434	906	188
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	72	17	2	0	5	7	10	3
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,740	298	62	20	102	123	202	42
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	90	16	6	0	5	9	9	2
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,593	181	24	16	75	66	130	29
Two Speed Idle (TSI)	Change of Ownership	Test Only	1,044	168	28	12	58	61	113	31
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	494	70	7	12	33	17	48	17
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	673	73	11	1	45	19	61	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,961	522	60	33	337	127	410	71
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	16	5	0	9	5	12	0
Two Speed Idle (TSI)	Enhanced	Referee	26	18	4	8	6	4	10	13
Two Speed Idle (TSI)	Enhanced	Test and Repair	18,369	1,031	102	49	719	196	832	89
Two Speed Idle (TSI)	Enhanced	Test Only	50,502	3,953	407	170	2,675	840	3,125	387
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	43	6	1	0	2	2	6	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	319	46	10	3	27	15	33	4

	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	Test and Repair	2,237	146	10	13	91	28	113	20
Two Speed Idle (TSI)	Partial	Test Only	1,299	123	15	7	81	28	92	14
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	405	66	12	9	31	18	47	20
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	973	104	21	12	40	50	66	15
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	379	26	0	2	17	3	22	1
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	6	2	0	4	2	4	0
Two Speed Idle (TSI)	Unknown Program	Referee	7	3	1	2	0	2	2	3
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,187	395	42	30	229	96	311	58
Two Speed Idle (TSI)	Unknown Program	Test Only	3,914	223	25	9	149	59	178	21
Unknown TestType	Basic	Gold Shield in Basic Area	251	21	0	3	13	22	13	8
Unknown TestType	Basic	Gold Shield in Enhanced Area	77	1	0	0	1	1	1	1
Unknown TestType	Basic	Government Fleet	0	0	0	0	0	5	0	0
Unknown TestType	Basic	Test and Repair	1,894	95	0	17	71	128	71	28
Unknown TestType	Basic	Test and Repair Dealer	298	8	0	1	5	19	5	3
Unknown TestType	Basic	Test Only	379	15	0	1	14	18	14	2
Unknown TestType	Change of Ownership	Gold Shield in COO Area	72	5	0	1	3	5	3	2
Unknown TestType	Change of Ownership	Test and Repair	61	2	0	0	2	2	2	0
Unknown TestType	Enhanced	Gold Shield in Basic Area	22	1	0	0	1	1	1	0
Unknown TestType	Enhanced	Gold Shield in COO Area	56	5	0	1	3	7	3	2
Unknown TestType	Enhanced	Gold Shield in Enhanced Area	781	53	0	5	45	64	45	15
Unknown TestType	Enhanced	Government Fleet	0	4	0	0	4	73	4	0
Unknown TestType	Enhanced	Referee	11	7	0	5	1	8	1	6
Unknown TestType	Enhanced	Test and Repair	3,080	148	0	28	102	191	102	51
Unknown TestType	Enhanced	Test and Repair Dealer	29	1	0	1	0	2	0	1
Unknown TestType	Enhanced	Test Only	5,697	304	0	56	218	323	218	104
Unknown TestType	Partial	Gold Shield in Basic Area	9	1	0	0	1	1	1	0
Unknown TestType	Partial	Gold Shield in Enhanced Area	140	15	0	3	11	16	11	5
Unknown TestType	Partial	Test and Repair	887	39	0	5	29	51	29	13
Unknown TestType	Partial	Test and Repair Dealer	8	0	0	0	0	1	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	Partial	Test Only	426	25	0	5	20	25	20	7
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	10	1	0	0	1	2	1	1
UnKnown TestType	Unknown Program	Gold Shield in COO Area	67	3	0	0	3	11	3	0
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	56	4	0	0	2	8	2	2
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	25	0	0
UnKnown TestType	Unknown Program	Referee	22	6	0	3	1	6	1	5
UnKnown TestType	Unknown Program	Test and Repair	478	21	0	1	18	53	18	5
UnKnown TestType	Unknown Program	Test and Repair Dealer	20	2	0	1	1	2	1	1
UnKnown TestType	Unknown Program	Test Only	475	16	0	6	9	35	9	9