

# Executive Summary Report

## SMOG CHECK Statewide

August 2011

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	1,136,271	131,049	11.53%
Total	1,295,430	167,930	12.96%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	995,444	87.61%	140,827	12.39%
Total	1,112,807	85.90%	182,623	14.10%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	627,702	86.90%	94,602	13.10%
Total	709,040	85.69%	118,440	14.31%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	14,482	1.27%
All Emissions	66,340	5.84%
All Visual	15,410	1.36%
All Functional	79,795	7.02%
OBDII	53,525	4.71%
Overall	131,049	11.53%

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

	Initial Tests	Certificates Issued
Volunteers	423,653	387,763
Directed Vehicles	298,651	239,939
Total	722,304	627,702

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	68,008	60,048
Directed Vehicles	25,495	19,002
Total	93,503	79,050

### 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	282	537	32	0	4,391
Test Only	2,576	46	26	1	0	2,649
Basic Area Dealer	0	1	104	0	0	105
Gold Shield	476	29	45	76	0	626
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	6,909	368	759	112	0	8,148

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	913,260	108,276	11.86%	11,656	1.28%
Partially Enhanced	57,833	7,745	13.39%	888	1.54%
Basic	106,720	9,539	8.94%	1,221	1.14%
Change of Ownership	6,158	808	13.12%	181	2.94%
No Program	9	1	11.11%	0	0.00%
Unknown Program	52,291	4,680	8.95%	536	1.03%
Total Program Area	1,136,271	131,049	11.53%	14,482	1.27%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	722,304	92,989	12.87%	10,534	1.46%
Regular	311,198	23,593	7.58%	2,237	0.72%
Basic Area Dealer	6,748	258	3.82%	20	0.30%
Gold Shield in Enhanced Area	73,453	11,381	15.49%	1,282	1.75%
Gold Shield in Basic Area	13,288	1,590	11.97%	214	1.61%
Gold Shield in COO Area	6,762	843	12.47%	156	2.31%
Business Fleet	2	0	0.00%	0	0.00%
Permanent Fleet Registered	52	4	7.69%	0	0.00%
Referee	520	217	41.73%	26	5.00%
Government Fleet	1,944	174	8.95%	13	0.67%
Total	1,136,271	131,049	11.53%	14,482	1.27%

**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-1976	1,178	328	27.84%	20.54%	8.49%	12.65%	6.45%	0.00%
MY-1977	1,679	474	28.23%	20.13%	8.34%	14.89%	8.16%	0.00%
MY-1978	1,890	534	28.25%	20.21%	8.47%	14.13%	7.51%	0.00%
MY-1979	1,973	613	31.07%	22.40%	9.78%	17.03%	8.36%	0.00%
MY-1980	1,191	322	27.04%	19.90%	8.14%	13.52%	7.39%	0.00%
MY-1981	1,389	431	31.03%	24.62%	10.15%	15.12%	8.06%	0.00%
MY-1982	1,518	426	28.06%	22.20%	9.09%	13.57%	7.77%	0.00%
MY-1983	2,293	721	31.44%	25.86%	9.46%	13.87%	7.50%	0.00%
MY-1984	3,750	1,232	32.85%	27.33%	10.43%	14.69%	7.33%	0.00%
MY-1985	5,129	1,609	31.37%	26.15%	9.14%	13.88%	6.01%	0.00%
MY-1986	7,731	2,252	29.13%	23.19%	8.36%	13.15%	5.52%	0.00%
MY-1987	8,447	2,693	31.88%	25.67%	8.38%	13.83%	5.30%	0.00%
MY-1988	10,621	3,134	29.51%	23.42%	7.08%	12.78%	4.92%	0.00%
MY-1989	14,683	3,989	27.17%	21.24%	5.52%	12.24%	4.36%	0.00%
MY-1990	17,869	4,659	26.07%	20.95%	5.43%	11.32%	3.36%	0.00%
MY-1991	21,334	5,395	25.29%	20.06%	5.03%	10.63%	2.91%	0.00%
MY-1992	21,651	5,352	24.72%	19.81%	4.71%	9.57%	3.15%	0.00%
MY-1993	27,719	7,250	26.16%	21.41%	4.22%	9.54%	2.91%	0.00%
MY-1994	30,479	7,420	24.34%	19.15%	3.35%	9.30%	2.90%	0.00%
MY-1995	48,042	9,922	20.65%	15.61%	2.34%	7.85%	2.41%	0.00%
MY-1996	34,694	6,414	18.49%	9.48%	1.28%	11.28%	2.00%	10.22%
MY-1997	64,259	9,459	14.72%	6.63%	0.94%	9.31%	1.46%	8.52%
MY-1998	49,551	6,913	13.95%	5.85%	0.85%	9.40%	1.39%	8.82%
MY-1999	87,708	8,396	9.57%	3.10%	0.51%	6.95%	1.03%	6.51%
MY-2000	53,521	5,674	10.60%	2.95%	0.58%	8.12%	1.11%	7.86%
MY-2001	133,888	12,633	9.44%	1.33%	0.25%	8.34%	0.72%	8.19%
MY-2002	45,180	4,178	9.25%	1.48%	0.27%	8.09%	0.88%	7.97%
MY-2003	162,032	9,022	5.57%	0.73%	0.14%	4.85%	0.52%	4.78%
MY-2004	36,047	2,004	5.56%	1.03%	0.18%	4.71%	0.56%	4.67%
MY-2005	176,438	6,206	3.52%	0.43%	0.07%	2.95%	0.37%	2.92%
MY-2006	20,840	608	2.92%	0.83%	0.05%	2.26%	0.43%	2.22%
MY-2007	18,842	449	2.38%	0.61%	0.03%	1.99%	0.22%	1.95%
MY-2008	9,173	155	1.69%	0.76%	0.01%	1.33%	0.19%	1.29%
MY-2009	4,599	69	1.50%	0.65%	0.09%	1.11%	0.22%	1.11%
MY-2010	5,992	79	1.32%	0.23%	0.02%	1.02%	0.15%	0.98%
MY-2011	2,788	31	1.11%	0.32%	0.00%	0.86%	0.22%	0.82%
MY-2012	153	3	1.96%	0.00%	0.00%	1.96%	0.00%	1.96%
All Model Years	1,136,271	131,049	11.53%	5.84%	1.27%	7.02%	1.36%	4.71%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	524
Certificate of Non Compliance	2
Parts Cost	150
Hardship Extensions	0
Exempt Vehicle	43
Exempted by Directive	8
Parts Exemption	17
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>744</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,015
Stations Locked-Out at Least Once	458
Stations Conducted at Least One Test	7,133

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,176	5,714
EA	Gas Endorsement	9	0
EB	Both Endorsement	45	0
EB	Gas Endorsement	469	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	610,559	47.63	92,063	48.98	702,622	47.80
Test and Repair	190,698	46.55	108,873	46.30	299,571	46.46
Test and Repair Dealer	42	63.12	6,171	53.61	6,213	53.68
Referee	215	30.00	79	30.00	294	30.00
Gold Shield in Enhanced Area	61,157	46.70	10,342	48.27	71,499	46.92
Gold Shield in Basic Area	616	61.67	12,235	40.24	12,851	41.27
Gold Shield in COO Area	1,751	51.59	4,725	54.66	6,476	53.83

**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	5,295	22.51	<b>20,511</b>	<b>286.43</b>
	\$51-150	3,934	100.68		
	\$151-250	3,111	202.75		
	\$251-450	4,048	340.70		
	Over \$450	4,123	812.45		
CAP Repairs	\$1-50	74	22.01	<b>3,592</b>	<b>464.20</b>
	\$51-150	179	111.16		
	\$151-250	258	208.96		
	\$251-450	971	358.04		
	Over \$450	2,110	589.73		
Total Repairs	\$1-50	4,095	22.87	<b>21,559</b>	<b>349.85</b>
	\$51-150	3,696	101.18		
	\$151-250	3,044	202.75		
	\$251-450	4,636	343.41		
	Over \$450	6,088	799.19		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	3,351	464.20

**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	8	4	0	1	1	1	2	1
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	83	11	0	0	3	6	5	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	93	7	1	0	2	5	3	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	417	73	6	5	25	35	39	12
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	1,322	237	23	13	105	105	149	34
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	45,117	9,077	957	476	3,723	4,579	5,630	1,222
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	67	4	0	44	20	50	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	140	127	14	41	31	60	70	55
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	137,741	10,194	776	560	5,777	3,683	7,247	1,069
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair Dealer	13	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	500,549	80,761	9,090	4,154	29,068	45,476	45,761	8,986
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	92	20	5	0	7	13	11	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	91	15	3	0	7	7	13	3
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	3,943	872	120	40	347	457	547	98
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	3	1	0	2	1	2	0
Acceleration Simulation Mode (ASM)	Partial	Referee	9	9	3	5	1	4	5	6
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	22,993	3,789	385	163	1,392	2,108	2,192	352
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	21	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	14,640	2,514	296	149	899	1,371	1,415	305
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	64	3	0	1	1	2	2	1
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,706	317	40	31	145	159	214	52

	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	Government Fleet	0	81	5	1	19	51	33	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	24	14	1	2	4	8	9	4
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	12,861	1,158	102	78	583	509	747	175
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	16,295	2,068	265	168	884	1,121	1,233	288
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	9,545	1,294	182	98	521	407	884	248
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	217	30	5	2	15	14	24	6
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,712	307	58	16	144	98	234	35
Two Speed Idle (TSI)	Basic	Referee	19	21	5	10	2	6	15	18
Two Speed Idle (TSI)	Basic	Test and Repair	62,735	5,899	706	316	2,719	1,706	4,363	772
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	4,659	207	18	13	90	56	151	31
Two Speed Idle (TSI)	Basic	Test Only	12,663	1,559	246	100	697	555	1,071	205
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	73	25	4	2	5	15	14	5
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,971	358	91	25	103	174	217	55
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	98	26	4	4	11	8	22	6
Two Speed Idle (TSI)	Change of Ownership	Permanent Fleet Registered	0	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Change of Ownership	Referee	1	7	1	4	3	2	4	5
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,870	204	45	16	68	96	139	29
Two Speed Idle (TSI)	Change of Ownership	Test Only	1,031	175	36	9	59	72	117	27
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	646	75	10	12	39	22	48	18
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	745	64	11	3	40	18	48	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	6,635	626	96	25	381	166	484	66
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	13	3	0	5	5	8	0
Two Speed Idle (TSI)	Enhanced	Referee	42	16	1	3	10	3	12	5
Two Speed Idle (TSI)	Enhanced	Test and Repair	26,262	1,307	126	68	871	279	1,028	124
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	512	20	0	0	18	2	18	0
Two Speed Idle (TSI)	Enhanced	Test Only	66,915	4,988	538	233	3,164	1,170	3,775	545
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	50	7	0	0	3	1	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
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	64	10	3	1	5	5	5	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	439	47	5	4	35	10	38	5
Two Speed Idle (TSI)	Partial	Test and Repair	3,125	223	42	10	115	70	152	25
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	65	2	0	0	0	1	1	0
Two Speed Idle (TSI)	Partial	Test Only	1,770	141	25	11	73	42	93	26
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	398	66	7	7	24	19	47	12
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,074	114	20	11	45	49	77	22
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	438	37	2	3	26	7	30	6
Two Speed Idle (TSI)	Unknown Program	Referee	12	5	1	1	1	2	3	2
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,558	438	55	32	261	105	344	67
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	543	9	1	2	7	1	8	3
Two Speed Idle (TSI)	Unknown Program	Test Only	4,576	318	37	19	196	96	235	38
UnKnown TestType	Basic	Gold Shield in Basic Area	345	22	0	0	18	22	18	5
UnKnown TestType	Basic	Gold Shield in COO Area	21	2	0	1	1	2	1	1
UnKnown TestType	Basic	Gold Shield in Enhanced Area	96	11	0	1	8	11	8	4
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	4	0	0
UnKnown TestType	Basic	Referee	6	1	0	1	0	1	0	1
UnKnown TestType	Basic	Test and Repair	2,657	123	0	11	101	139	101	28
UnKnown TestType	Basic	Test and Repair Dealer	436	15	0	4	8	18	8	8
UnKnown TestType	Basic	Test Only	494	21	0	3	16	22	16	6
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	87	6	0	2	3	6	3	4
UnKnown TestType	Change of Ownership	Gold Shield in Enhanced Area	0	1	0	0	0	1	0	1
UnKnown TestType	Change of Ownership	Test and Repair	81	1	0	0	1	1	1	1
UnKnown TestType	Change of Ownership	Test Only	16	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Gold Shield in Basic Area	32	2	0	1	1	3	1	1
UnKnown TestType	Enhanced	Gold Shield in COO Area	85	2	0	0	2	3	2	0
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	1,111	49	0	8	30	66	30	20
UnKnown TestType	Enhanced	Government Fleet	0	1	0	0	1	44	1	0
UnKnown TestType	Enhanced	Referee	20	6	0	3	2	6	2	4

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UnKnown TestType	Enhanced	Test and Repair	4,156	171	0	29	110	201	110	70
UnKnown TestType	Enhanced	Test and Repair Dealer	34	0	0	0	0	1	0	0
UnKnown TestType	Enhanced	Test Only	7,530	396	0	64	294	452	294	123
UnKnown TestType	Partial	Gold Shield in Basic Area	10	2	0	0	1	2	1	1
UnKnown TestType	Partial	Gold Shield in Enhanced Area	200	8	0	1	7	9	7	1
UnKnown TestType	Partial	Referee	2	2	0	1	1	2	1	1
UnKnown TestType	Partial	Test and Repair	1,319	53	0	12	34	66	34	23
UnKnown TestType	Partial	Test Only	591	26	0	5	16	27	16	10
UnKnown TestType	Unknown Program	Gold Shield in COO Area	71	2	0	0	2	3	2	0
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	84	3	0	1	2	5	2	1
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	44	0	0
UnKnown TestType	Unknown Program	Referee	20	8	0	6	0	8	0	7
UnKnown TestType	Unknown Program	Test and Repair	522	22	0	6	15	61	15	8
UnKnown TestType	Unknown Program	Test Only	531	13	0	2	10	41	10	3