

# Executive Summary Report

## SMOG CHECK Statewide

October 2012

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	927,041	108,890	11.75%
Total	1,060,068	138,879	13.10%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	807,762	87.13%	119,279	12.87%
Total	907,237	85.58%	152,831	14.42%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	515,042	86.30%	81,751	13.70%
Total	587,510	84.99%	103,775	15.01%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,178	1.21%
All Emissions	51,536	5.56%
All Visual	16,105	1.74%
All Functional	67,625	7.29%
OBDII	46,058	4.97%
Overall	108,890	11.75%

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

	Initial Tests	Certificates Issued
Volunteers	352,283	320,207
Directed Vehicles	244,510	194,835
Total	596,793	515,042

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	52,285	45,879
Directed Vehicles	19,369	14,788
Total	71,654	60,667

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,445	291	550	29	0	4,315
Test Only	2,619	50	27	1	0	2,697
Basic Area Dealer	0	0	101	0	0	101
Gold Shield	451	25	39	76	0	591
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	29	1	4	0	0	34
Referee	36	0	6	1	0	43
Government Fleet	248	9	37	2	0	296
Unknown Type	13	0	2	0	0	15
Total	6,844	376	766	109	0	8,095

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	735,323	90,185	12.26%	9,036	1.23%
Partially Enhanced	47,982	6,056	12.62%	589	1.23%
Basic	84,645	7,657	9.05%	902	1.07%
Change of Ownership	5,745	707	12.31%	146	2.54%
No Program	4	2	50.00%	0	0.00%
Unknown Program	53,342	4,283	8.03%	505	0.95%
Total Program Area	927,041	108,890	11.75%	11,178	1.21%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	596,793	79,658	13.35%	8,339	1.40%
Regular	250,753	18,589	7.41%	1,621	0.65%
Basic Area Dealer	5,140	150	2.92%	8	0.16%
Gold Shield in Enhanced Area	54,086	7,997	14.79%	843	1.56%
Gold Shield in Basic Area	10,038	1,192	11.87%	163	1.62%
Gold Shield in COO Area	7,530	878	11.66%	150	1.99%
Permanent Fleet Registered	69	4	5.80%	0	0.00%
Referee	484	230	47.52%	41	8.47%
Government Fleet	2,148	192	8.94%	13	0.61%
Total	927,041	108,890	11.75%	11,178	1.21%

**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	778	202	25.96%	17.99%	7.20%	15.04%	7.71%	0.00%
MY-1977	1,123	367	32.68%	21.02%	8.82%	17.90%	9.35%	0.00%
MY-1978	1,209	343	28.37%	18.11%	7.61%	15.14%	8.60%	0.00%
MY-1979	1,451	438	30.19%	21.23%	8.34%	16.54%	9.03%	0.00%
MY-1980	813	208	25.58%	16.48%	8.12%	15.13%	8.61%	0.00%
MY-1981	973	295	30.32%	23.43%	10.28%	15.21%	6.78%	0.00%
MY-1982	1,176	351	29.85%	21.85%	7.99%	13.86%	8.59%	0.00%
MY-1983	1,374	440	32.02%	23.94%	8.22%	15.36%	8.44%	0.00%
MY-1984	2,691	916	34.04%	27.20%	11.04%	16.20%	8.47%	0.00%
MY-1985	3,475	1,174	33.78%	26.39%	9.76%	16.06%	8.72%	0.00%
MY-1986	5,156	1,666	32.31%	23.55%	7.78%	15.92%	7.76%	0.00%
MY-1987	5,886	1,853	31.48%	24.40%	7.59%	14.44%	5.66%	0.00%
MY-1988	7,034	2,117	30.10%	22.82%	6.82%	14.40%	5.74%	0.00%
MY-1989	10,163	2,799	27.54%	20.17%	5.82%	13.12%	5.20%	0.00%
MY-1990	11,562	3,255	28.15%	21.39%	5.96%	12.78%	4.44%	0.00%
MY-1991	15,763	4,235	26.87%	20.36%	5.17%	11.82%	4.21%	0.00%
MY-1992	15,203	4,162	27.38%	20.15%	5.23%	11.87%	4.60%	0.00%
MY-1993	19,276	5,691	29.52%	23.70%	4.76%	11.68%	4.00%	0.00%
MY-1994	24,220	6,264	25.86%	19.54%	3.48%	10.32%	3.76%	0.00%
MY-1995	27,566	6,990	25.36%	19.09%	3.17%	10.19%	3.70%	0.00%
MY-1996	32,726	6,509	19.89%	10.18%	1.42%	11.52%	2.67%	10.13%
MY-1997	33,763	6,436	19.06%	9.19%	1.37%	11.84%	2.47%	10.51%
MY-1998	53,877	7,312	13.57%	5.49%	0.90%	8.74%	1.87%	7.84%
MY-1999	41,641	5,316	12.77%	4.48%	0.72%	9.03%	1.80%	8.32%
MY-2000	89,710	8,859	9.88%	2.55%	0.50%	7.38%	1.46%	7.04%
MY-2001	45,633	5,840	12.80%	2.29%	0.38%	10.82%	1.54%	10.67%
MY-2002	106,272	8,842	8.32%	1.21%	0.22%	6.99%	1.04%	6.85%
MY-2003	38,793	3,323	8.57%	1.66%	0.28%	7.06%	1.13%	6.91%
MY-2004	111,538	5,635	5.05%	0.66%	0.12%	4.26%	0.63%	4.18%
MY-2005	30,097	1,545	5.13%	0.93%	0.10%	4.25%	0.64%	4.19%
MY-2006	126,528	4,405	3.48%	0.48%	0.06%	2.86%	0.43%	2.82%
MY-2007	18,086	395	2.18%	0.42%	0.07%	1.81%	0.23%	1.75%
MY-2008	15,409	328	2.13%	0.72%	0.04%	1.67%	0.28%	1.62%
MY-2009	5,488	107	1.95%	0.53%	0.02%	1.59%	0.20%	1.53%
MY-2010	6,072	86	1.42%	0.26%	0.00%	1.20%	0.13%	1.17%
MY-2011	8,168	101	1.24%	0.37%	0.04%	1.04%	0.09%	0.99%
MY-2012	5,849	72	1.23%	0.24%	0.00%	0.97%	0.09%	0.92%
MY-2013	499	13	2.61%	0.20%	0.00%	2.40%	0.00%	2.40%
All Model Years	927,041	108,890	11.75%	5.56%	1.21%	7.29%	1.74%	4.97%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	484
Certificate of Non Compliance	0
Parts Cost	123
Hardship Extensions	3
Exempt Vehicle	31
Exempted by Directive	5
Parts Exemption	5
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>651</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	976
Stations Locked-Out at Least Once	959
Stations Conducted at Least One Test	7,119

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	8,989	5,360
EA	Gas Endorsement	7	0
EB	Both Endorsement	35	0
EB	Gas Endorsement	384	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	480,949	46.98	76,777	47.93	557,726	47.11
Test and Repair	147,202	47.46	84,542	46.02	231,744	46.93
Test and Repair Dealer	5	78.40	4,512	54.12	4,517	54.14
Referee	217	30.00	58	30.00	275	30.00
Gold Shield in Enhanced Area	43,094	46.15	7,660	47.98	50,754	46.42
Gold Shield in Basic Area	382	60.08	8,859	38.60	9,241	39.49
Gold Shield in COO Area	1,824	53.07	5,122	50.98	6,946	51.53

### 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	3,235	23.38	<b>14,860</b>	<b>297.88</b>
	\$51-150	3,204	100.86		
	\$151-250	2,346	200.91		
	\$251-450	3,113	340.40		
	Over \$450	2,962	842.93		
CAP Repairs	\$1-50	53	23.40	<b>902</b>	<b>392.58</b>
	\$51-150	90	100.78		
	\$151-250	91	203.79		
	\$251-450	249	356.21		
	Over \$450	419	564.57		
Total Repairs	\$1-50	3,221	23.42	<b>15,130</b>	<b>315.97</b>
	\$51-150	2,950	99.95		
	\$151-250	2,278	201.69		
	\$251-450	3,243	341.59		
	Over \$450	3,438	826.98		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	848	392.58

### 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	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	8	3	1	0	1	3	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
Acceleration Simulation Mode (ASM)	Basic	Referee	0	2	0	2	0	1	0	2
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	82	12	1	1	6	5	8	1
Acceleration Simulation Mode (ASM)	Basic	Test Only	82	16	3	2	4	11	9	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	0	1	0	1	0	1	1	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	13	2	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	14	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	290	55	7	3	19	31	27	9
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	1,193	241	25	14	105	118	160	25
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	33,192	6,311	639	452	2,695	2,998	3,933	986
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	63	2	2	34	22	39	3
Acceleration Simulation Mode (ASM)	Enhanced	Referee	134	133	25	52	34	68	65	75
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	105,378	7,783	550	597	4,407	2,711	5,437	1,106
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	402,761	68,552	7,191	4,959	25,841	35,710	40,170	9,991
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	32	17	6	0	6	13	11	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	301	52	3	3	28	21	34	6
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,459	548	77	30	211	289	339	78
Acceleration Simulation Mode (ASM)	Partial	Referee	7	16	6	5	2	9	7	12
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	19,004	2,899	267	170	1,029	1,577	1,571	355
Acceleration Simulation Mode (ASM)	Partial	Test Only	13,089	2,073	203	165	770	1,057	1,203	293
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Basic Area	0	1	0	0	0	1	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
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	58	6	1	1	3	3	4	1
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,481	235	24	28	118	103	166	45
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	100	7	0	17	71	34	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	18	12	3	6	4	7	10	8
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	14,133	990	100	81	505	406	654	149
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	16,118	1,946	268	172	849	981	1,205	346
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	7,059	973	135	78	370	302	650	215
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	239	28	5	0	18	9	21	1
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,226	204	30	16	88	60	150	34
Two Speed Idle (TSI)	Basic	Referee	9	33	5	17	7	9	25	24
Two Speed Idle (TSI)	Basic	Test and Repair	49,309	4,669	527	270	2,212	1,384	3,390	616
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,400	119	7	5	67	19	85	21
Two Speed Idle (TSI)	Basic	Test Only	10,825	1,425	188	101	668	415	1,018	219
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	57	11	1	0	5	4	10	1
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	2,027	330	81	16	105	156	211	47
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	96	19	3	3	9	7	14	4
Two Speed Idle (TSI)	Change of Ownership	Referee	3	3	1	1	1	1	3	1
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,548	159	30	15	71	64	113	31
Two Speed Idle (TSI)	Change of Ownership	Test Only	1,002	166	29	20	59	61	110	31
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	569	63	8	8	31	24	45	9
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	975	80	15	3	43	25	63	10
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	5,029	505	58	38	327	117	391	67
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	18	3	0	11	7	11	0
Two Speed Idle (TSI)	Enhanced	Referee	19	17	1	4	11	4	11	4
Two Speed Idle (TSI)	Enhanced	Test and Repair	21,161	1,147	93	72	789	186	933	146
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	373	9	1	0	5	3	6	0
Two Speed Idle (TSI)	Enhanced	Test Only	56,053	4,575	418	290	3,014	911	3,593	593

	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 Basic Area	55	3	0	0	2	1	2	0
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	88	4	0	0	3	1	4	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	286	34	5	1	25	8	31	2
Two Speed Idle (TSI)	Partial	Test and Repair	2,520	185	16	10	104	39	142	28
Two Speed Idle (TSI)	Partial	Test Only	1,582	126	6	16	82	24	97	23
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	375	44	6	8	13	12	30	14
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,333	122	20	9	56	51	79	17
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	409	56	6	3	39	13	46	7
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	6	1	0	4	1	5	0
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,766	383	36	34	221	84	295	55
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	630	11	0	1	9	2	10	2
Two Speed Idle (TSI)	Unknown Program	Test Only	4,880	320	33	39	212	63	249	56
UnKnown TestType	Basic	Gold Shield in Basic Area	323	19	0	1	15	20	15	5
UnKnown TestType	Basic	Gold Shield in COO Area	19	1	0	0	1	1	1	0
UnKnown TestType	Basic	Gold Shield in Enhanced Area	83	2	0	0	2	2	2	0
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	2	0	0
UnKnown TestType	Basic	Referee	0	1	0	0	1	1	1	0
UnKnown TestType	Basic	Test and Repair	2,368	115	0	15	86	148	86	31
UnKnown TestType	Basic	Test and Repair Dealer	350	8	0	2	5	16	5	3
UnKnown TestType	Basic	Test Only	418	23	0	5	14	24	14	9
UnKnown TestType	Change of Ownership	Gold Shield in Basic Area	1	1	0	0	0	1	0	1
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	80	8	0	2	6	8	6	2
UnKnown TestType	Change of Ownership	Test and Repair	74	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Test and Repair Dealer	6	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Test Only	26	2	0	1	1	2	1	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	24	2	0	0	2	3	2	0
UnKnown TestType	Enhanced	Gold Shield in COO Area	73	5	0	1	4	15	4	2
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	929	70	0	12	58	81	58	17
UnKnown TestType	Enhanced	Government Fleet	0	2	0	0	2	40	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
UnKnown TestType	Enhanced	Permanent Fleet Registered	0	0	0	0	0	1	0	0
UnKnown TestType	Enhanced	Referee	10	4	0	3	0	4	0	3
UnKnown TestType	Enhanced	Test and Repair	3,828	168	0	27	123	209	123	54
UnKnown TestType	Enhanced	Test and Repair Dealer	25	1	0	0	1	1	1	1
UnKnown TestType	Enhanced	Test Only	7,108	377	0	62	262	427	262	134
UnKnown TestType	Partial	Gold Shield in Basic Area	5	1	0	0	1	1	1	0
UnKnown TestType	Partial	Gold Shield in COO Area	17	0	0	0	0	3	0	0
UnKnown TestType	Partial	Gold Shield in Enhanced Area	126	7	0	1	6	7	6	3
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	1	0	0
UnKnown TestType	Partial	Test and Repair	1,081	57	0	10	40	69	40	19
UnKnown TestType	Partial	Test Only	541	31	0	9	20	31	20	15
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	10	1	0	0	1	1	1	0
UnKnown TestType	Unknown Program	Gold Shield in COO Area	73	1	0	0	1	6	1	0
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	54	3	0	0	3	6	3	0
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	24	0	0
UnKnown TestType	Unknown Program	Referee	20	3	0	3	0	3	0	3
UnKnown TestType	Unknown Program	Test and Repair	596	18	0	4	11	47	11	8
UnKnown TestType	Unknown Program	Test and Repair Dealer	15	0	0	0	0	1	0	0
UnKnown TestType	Unknown Program	Test Only	541	23	0	12	9	41	9	15