

# Executive Summary Report

## SMOG CHECK Statewide

September 2012

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	879,920	101,996	11.59%
Total	1,004,298	130,640	13.01%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	770,529	87.57%	109,391	12.43%
Total	862,964	85.93%	141,334	14.07%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	491,036	86.62%	75,872	13.38%
Total	558,047	85.23%	96,714	14.77%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	10,759	1.22%
All Emissions	49,472	5.62%
All Visual	14,580	1.66%
All Functional	62,213	7.07%
OBDII	42,438	4.82%
Overall	101,996	11.59%

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

	Initial Tests	Certificates Issued
Volunteers	346,573	316,406
Directed Vehicles	220,335	174,630
Total	566,908	491,036

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	50,217	44,590
Directed Vehicles	17,590	13,210
Total	67,807	57,800

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,446	291	549	28	0	4,314
Test Only	2,618	50	27	1	0	2,696
Basic Area Dealer	0	0	101	0	0	101
Gold Shield	454	25	38	76	0	593
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	8	0	2	0	0	10
Total	6,842	376	764	108	0	8,090

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	702,450	84,494	12.03%	8,705	1.24%
Partially Enhanced	44,693	5,685	12.72%	591	1.32%
Basic	78,997	7,075	8.96%	838	1.06%
Change of Ownership	5,496	727	13.23%	167	3.04%
No Program	4	1	25.00%	0	0.00%
Unknown Program	48,280	4,014	8.31%	458	0.95%
Total Program Area	879,920	101,996	11.59%	10,759	1.22%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	566,908	74,437	13.13%	7,920	1.40%
Regular	238,567	17,593	7.37%	1,592	0.67%
Basic Area Dealer	4,694	143	3.05%	14	0.30%
Gold Shield in Enhanced Area	51,405	7,605	14.79%	891	1.73%
Gold Shield in Basic Area	9,735	1,087	11.17%	130	1.34%
Gold Shield in COO Area	6,667	817	12.25%	166	2.49%
Business Fleet	1	0	0.00%	0	0.00%
Permanent Fleet Registered	42	4	9.52%	0	0.00%
Referee	415	193	46.51%	35	8.43%
Government Fleet	1,486	117	7.87%	11	0.74%
Total	879,920	101,996	11.59%	10,759	1.22%

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	722	223	30.89%	23.27%	10.53%	14.27%	9.83%	0.00%
MY-1977	1,072	344	32.09%	21.27%	7.93%	15.67%	9.98%	0.00%
MY-1978	1,129	341	30.20%	19.93%	7.17%	16.56%	8.86%	0.00%
MY-1979	1,344	447	33.26%	24.55%	9.82%	16.67%	8.93%	0.00%
MY-1980	782	243	31.07%	20.97%	9.34%	16.88%	9.21%	0.00%
MY-1981	880	264	30.00%	24.20%	9.89%	15.57%	9.32%	0.00%
MY-1982	1,044	322	30.84%	23.56%	8.91%	15.90%	8.43%	0.00%
MY-1983	1,398	451	32.26%	24.75%	8.44%	15.59%	9.66%	0.00%
MY-1984	2,351	774	32.92%	26.24%	10.29%	15.10%	7.57%	0.00%
MY-1985	3,382	1,076	31.82%	25.25%	9.52%	14.99%	7.45%	0.00%
MY-1986	5,310	1,619	30.49%	22.86%	8.32%	14.73%	6.44%	0.00%
MY-1987	5,387	1,657	30.76%	24.37%	8.00%	13.79%	5.81%	0.00%
MY-1988	6,897	2,082	30.19%	23.29%	7.48%	13.83%	6.02%	0.00%
MY-1989	9,709	2,750	28.32%	20.80%	5.61%	12.99%	4.86%	0.00%
MY-1990	11,433	3,165	27.68%	21.15%	5.79%	12.29%	4.53%	0.00%
MY-1991	14,612	3,925	26.86%	20.83%	5.43%	11.76%	3.75%	0.00%
MY-1992	14,493	3,850	26.56%	20.80%	5.23%	10.37%	3.88%	0.00%
MY-1993	18,095	5,202	28.75%	22.74%	4.49%	11.52%	3.75%	0.00%
MY-1994	23,866	6,125	25.66%	19.46%	3.44%	10.01%	3.61%	0.00%
MY-1995	25,857	6,498	25.13%	19.11%	3.43%	9.60%	3.59%	0.00%
MY-1996	31,310	5,993	19.14%	10.07%	1.37%	10.79%	2.68%	9.43%
MY-1997	32,772	6,135	18.72%	9.12%	1.31%	11.34%	2.34%	10.04%
MY-1998	51,371	7,054	13.73%	5.74%	0.87%	8.76%	1.82%	7.92%
MY-1999	40,016	5,191	12.97%	4.65%	0.75%	9.07%	1.83%	8.44%
MY-2000	86,435	8,421	9.74%	2.60%	0.50%	7.28%	1.30%	6.97%
MY-2001	41,638	5,117	12.29%	2.16%	0.37%	10.43%	1.28%	10.21%
MY-2002	98,607	7,983	8.10%	1.26%	0.23%	6.74%	0.99%	6.59%
MY-2003	37,266	3,037	8.15%	1.63%	0.30%	6.75%	1.01%	6.63%
MY-2004	110,735	5,324	4.81%	0.63%	0.11%	4.05%	0.60%	3.97%
MY-2005	28,341	1,405	4.96%	0.91%	0.12%	4.08%	0.65%	4.02%
MY-2006	118,554	4,047	3.41%	0.51%	0.06%	2.79%	0.42%	2.75%
MY-2007	16,658	368	2.21%	0.55%	0.13%	1.67%	0.29%	1.66%
MY-2008	14,296	246	1.72%	0.55%	0.03%	1.36%	0.17%	1.34%
MY-2009	5,017	87	1.73%	0.60%	0.00%	1.34%	0.14%	1.34%
MY-2010	5,288	76	1.44%	0.32%	0.00%	1.04%	0.25%	1.02%
MY-2011	6,876	87	1.27%	0.31%	0.01%	1.09%	0.03%	1.03%
MY-2012	4,686	60	1.28%	0.30%	0.00%	0.96%	0.17%	0.92%
MY-2013	291	7	2.41%	0.00%	0.00%	2.41%	0.00%	2.41%
All Model Years	879,920	101,996	11.59%	5.62%	1.22%	7.07%	1.66%	4.82%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	356
Certificate of Non Compliance	1
Parts Cost	94
Hardship Extensions	3
Exempt Vehicle	28
Exempted by Directive	3
Parts Exemption	14
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>499</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,002
Stations Locked-Out at Least Once	982
Stations Conducted at Least One Test	7,088

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,131	5,414
EA	Gas Endorsement	8	0
EB	Both Endorsement	35	0
EB	Gas Endorsement	392	0
EU	Gas Endorsement	1	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	475,659	46.81	74,609	47.51	550,268	46.90
Test and Repair	147,303	47.27	82,527	45.86	229,830	46.76
Test and Repair Dealer	6	78.33	4,354	53.12	4,360	53.16
Referee	165	30.00	51	30.00	216	30.00
Gold Shield in Enhanced Area	42,809	46.21	7,395	47.50	50,204	46.40
Gold Shield in Basic Area	421	60.07	8,966	40.45	9,387	41.33
Gold Shield in COO Area	1,746	53.07	4,618	50.49	6,364	51.20

**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	3,086	23.06	<b>14,025</b>	<b>290.14</b>
	\$51-150	3,015	101.91		
	\$151-250	2,298	200.94		
	\$251-450	2,915	340.55		
	Over \$450	2,711	824.91		
CAP Repairs	\$1-50	45	24.78	<b>855</b>	<b>388.43</b>
	\$51-150	99	106.04		
	\$151-250	86	201.42		
	\$251-450	259	353.86		
	Over \$450	366	577.93		
Total Repairs	\$1-50	3,071	23.13	<b>14,266</b>	<b>308.52</b>
	\$51-150	2,738	101.03		
	\$151-250	2,253	201.97		
	\$251-450	3,050	341.61		
	Over \$450	3,154	810.62		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	806	388.43

**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	15	3	0	0	2	1	2	0
Acceleration Simulation Mode (ASM)	Basic	Referee	0	2	1	1	0	2	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	112	17	0	0	8	8	11	1
Acceleration Simulation Mode (ASM)	Basic	Test Only	123	18	4	2	6	11	7	3
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in COO Area	4	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in Enhanced Area	3	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	20	6	1	1	3	2	6	2
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	302	54	3	5	17	33	26	10
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	1,144	221	30	15	92	104	131	33
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	31,929	6,147	715	413	2,575	3,039	3,818	914
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	42	0	1	30	12	33	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	105	123	21	48	21	60	67	71
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	103,976	7,549	561	550	4,241	2,689	5,186	1,005
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	385,508	64,119	6,845	4,365	23,717	34,332	36,748	8,956
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	46	13	4	0	6	10	7	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	230	43	6	2	20	20	27	4
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,207	468	60	17	202	245	292	51
Acceleration Simulation Mode (ASM)	Partial	Referee	5	11	3	4	3	6	6	7
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,853	2,709	271	134	1,028	1,484	1,516	300
Acceleration Simulation Mode (ASM)	Partial	Test Only	12,315	1,997	207	150	731	1,060	1,128	267
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	84	6	0	0	3	2	4	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,508	223	30	20	89	122	135	46

	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	55	6	0	7	43	13	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	9	15	2	8	3	9	10	9
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	12,296	922	79	76	476	393	609	137
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	14,959	1,877	241	146	866	955	1,157	280
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	6,801	886	101	77	337	267	601	203
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	224	22	2	2	15	4	18	2
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,132	181	27	14	80	65	130	31
Two Speed Idle (TSI)	Basic	Government Fleet	0	4	2	0	2	2	2	0
Two Speed Idle (TSI)	Basic	Referee	10	12	2	6	1	6	4	8
Two Speed Idle (TSI)	Basic	Test and Repair	45,964	4,326	514	267	1,943	1,263	3,105	631
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,147	115	14	4	63	27	86	13
Two Speed Idle (TSI)	Basic	Test Only	10,327	1,320	171	107	556	423	882	218
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	65	13	2	3	4	4	8	6
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,738	306	83	18	100	144	187	43
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	98	25	5	2	9	10	18	5
Two Speed Idle (TSI)	Change of Ownership	Referee	1	3	2	0	1	2	3	1
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,535	178	36	16	66	70	125	40
Two Speed Idle (TSI)	Change of Ownership	Test Only	1,023	183	37	11	70	74	126	26
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	660	54	8	8	20	15	35	16
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	867	73	11	3	40	22	56	8
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,750	438	46	30	284	98	343	61
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	9	3	0	4	3	6	0
Two Speed Idle (TSI)	Enhanced	Referee	19	12	2	4	4	3	8	5
Two Speed Idle (TSI)	Enhanced	Test and Repair	20,544	1,029	81	67	700	180	832	133
Two Speed Idle (TSI)	Enhanced	Test Only	52,772	4,093	379	269	2,697	846	3,187	526
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	46	4	1	1	1	2	1	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	62	11	2	1	5	4	7	2

	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 Enhanced Area	258	29	5	2	16	8	24	8
Two Speed Idle (TSI)	Partial	Test and Repair	2,441	191	20	11	116	40	155	22
Two Speed Idle (TSI)	Partial	Test Only	1,474	123	12	11	79	21	99	24
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	358	48	11	8	12	18	23	17
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,150	123	31	8	56	58	78	12
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	428	28	3	7	18	4	21	8
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	4	0	0	3	1	3	0
Two Speed Idle (TSI)	Unknown Program	Referee	11	5	2	2	2	2	5	4
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,236	366	30	39	223	82	289	59
Two Speed Idle (TSI)	Unknown Program	Test Only	4,416	275	23	27	179	51	212	39
UnKnown TestType	Basic	Gold Shield in Basic Area	295	12	0	2	7	12	7	6
UnKnown TestType	Basic	Gold Shield in COO Area	23	1	0	1	0	1	0	1
UnKnown TestType	Basic	Gold Shield in Enhanced Area	67	3	0	0	3	3	3	0
UnKnown TestType	Basic	Referee	3	1	0	1	0	2	0	1
UnKnown TestType	Basic	Test and Repair	2,097	118	0	9	88	121	88	33
UnKnown TestType	Basic	Test and Repair Dealer	266	4	0	2	2	7	2	2
UnKnown TestType	Basic	Test Only	419	30	0	3	21	32	21	9
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	74	3	0	1	0	3	0	3
UnKnown TestType	Change of Ownership	Gold Shield in Enhanced Area	3	0	0	0	0	1	0	0
UnKnown TestType	Change of Ownership	Test Only	45	3	0	0	2	3	2	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	16	2	0	0	2	2	2	0
UnKnown TestType	Enhanced	Gold Shield in COO Area	67	3	0	1	2	9	2	1
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	814	47	0	4	35	53	35	13
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	42	0	0
UnKnown TestType	Enhanced	Referee	10	4	0	4	1	4	1	4
UnKnown TestType	Enhanced	Test and Repair	3,344	120	0	20	83	156	83	40
UnKnown TestType	Enhanced	Test and Repair Dealer	21	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Test Only	6,592	340	0	60	227	354	227	130
UnKnown TestType	Partial	Gold Shield in Enhanced Area	124	7	0	0	7	7	7	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	Government Fleet	0	0	0	0	0	3	0	0
UnKnown TestType	Partial	Test and Repair	957	46	0	3	35	49	35	15
UnKnown TestType	Partial	Test Only	516	27	0	7	14	28	14	14
UnKnown TestType	Unknown Program	Gold Shield in COO Area	81	4	0	1	2	6	2	2
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	67	4	0	1	2	5	2	3
UnKnown TestType	Unknown Program	Government Fleet	0	1	0	0	1	14	1	0
UnKnown TestType	Unknown Program	Referee	17	3	0	3	0	3	0	3
UnKnown TestType	Unknown Program	Test and Repair	554	20	0	3	13	31	13	8
UnKnown TestType	Unknown Program	Test and Repair Dealer	26	0	0	0	0	2	0	0
UnKnown TestType	Unknown Program	Test Only	525	25	0	7	13	54	13	15