

# Executive Summary Report

## SMOG CHECK Statewide

December 2012

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	810,630	91,439	11.28%
Total	917,947	114,967	12.52%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	708,343	87.38%	102,287	12.62%
Total	789,223	85.98%	128,724	14.02%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	458,596	86.77%	69,934	13.23%
Total	517,959	85.55%	87,501	14.45%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	8,860	1.09%
All Emissions	41,169	5.08%
All Visual	13,364	1.65%
All Functional	58,631	7.23%
OBDII	41,309	5.10%
Overall	91,439	11.28%

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

	Initial Tests	Certificates Issued
Volunteers	309,387	282,418
Directed Vehicles	219,143	176,178
Total	528,530	458,596

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	43,553	38,221
Directed Vehicles	17,373	13,350
Total	60,926	51,571

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,494	292	553	30	0	4,369
Test Only	2,627	49	27	1	0	2,704
Basic Area Dealer	0	0	101	0	0	101
Gold Shield	442	25	38	77	0	582
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	23	0	2	0	0	25
Total	6,902	376	768	111	0	8,157

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	653,339	76,419	11.70%	7,240	1.11%
Partially Enhanced	40,596	5,002	12.32%	467	1.15%
Basic	70,854	6,090	8.60%	664	0.94%
Change of Ownership	4,554	602	13.22%	105	2.31%
No Program	6	2	33.33%	1	16.67%
Unknown Program	41,281	3,324	8.05%	383	0.93%
Total Program Area	810,630	91,439	11.28%	8,860	1.09%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	528,530	67,594	12.79%	6,649	1.26%
Regular	214,671	14,993	6.98%	1,262	0.59%
Basic Area Dealer	4,223	156	3.69%	12	0.28%
Gold Shield in Enhanced Area	47,707	6,793	14.24%	679	1.42%
Gold Shield in Basic Area	7,602	873	11.48%	96	1.26%
Gold Shield in COO Area	5,617	721	12.84%	120	2.14%
Permanent Fleet Registered	21	0	0.00%	0	0.00%
Referee	284	121	42.61%	22	7.75%
Government Fleet	1,975	188	9.52%	20	1.01%
Total	810,630	91,439	11.28%	8,860	1.09%

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-1960	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1965	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	670	190	28.36%	18.81%	7.61%	15.82%	9.55%	0.00%
MY-1977	851	234	27.50%	17.74%	7.17%	15.86%	8.34%	0.00%
MY-1978	958	280	29.23%	20.15%	7.72%	16.18%	9.71%	0.00%
MY-1979	1,170	335	28.63%	19.15%	7.09%	16.41%	7.95%	0.00%
MY-1980	720	189	26.25%	19.03%	8.47%	15.14%	6.81%	0.00%
MY-1981	796	239	30.03%	23.24%	9.55%	15.08%	8.79%	0.00%
MY-1982	943	301	31.92%	24.07%	10.29%	17.07%	8.91%	0.00%
MY-1983	1,058	330	31.19%	23.82%	8.88%	13.52%	9.17%	0.00%
MY-1984	2,054	654	31.84%	25.85%	10.18%	14.80%	7.50%	0.00%
MY-1985	2,694	826	30.66%	24.54%	8.57%	15.03%	6.50%	0.00%
MY-1986	4,026	1,238	30.75%	23.27%	8.02%	14.38%	6.98%	0.00%
MY-1987	5,201	1,638	31.49%	23.65%	6.84%	14.86%	6.19%	0.00%
MY-1988	5,446	1,622	29.78%	22.95%	6.56%	13.64%	6.28%	0.00%
MY-1989	7,803	2,200	28.19%	21.04%	6.34%	13.78%	5.10%	0.00%
MY-1990	10,025	2,752	27.45%	20.64%	5.51%	12.74%	4.88%	0.00%
MY-1991	12,199	3,291	26.98%	20.39%	5.21%	12.66%	4.33%	0.00%
MY-1992	11,809	3,133	26.53%	20.27%	5.03%	11.53%	4.19%	0.00%
MY-1993	15,087	4,325	28.67%	22.77%	4.47%	11.33%	4.16%	0.00%
MY-1994	19,608	5,061	25.81%	19.06%	3.31%	10.80%	3.98%	0.00%
MY-1995	23,670	5,779	24.41%	18.28%	3.01%	9.42%	3.51%	0.00%
MY-1996	25,528	5,075	19.88%	9.88%	1.39%	11.87%	2.81%	10.51%
MY-1997	30,795	5,568	18.08%	8.40%	1.27%	11.22%	2.38%	10.09%
MY-1998	39,629	5,784	14.60%	5.86%	0.96%	9.73%	2.02%	8.87%
MY-1999	42,900	5,160	12.03%	3.99%	0.66%	8.50%	1.72%	7.73%
MY-2000	60,003	6,874	11.46%	2.87%	0.54%	8.73%	1.57%	8.36%
MY-2001	56,282	6,044	10.74%	1.76%	0.33%	9.25%	1.20%	9.01%
MY-2002	68,775	6,584	9.57%	1.32%	0.27%	8.15%	1.24%	7.98%
MY-2003	59,305	3,974	6.70%	1.06%	0.20%	5.63%	0.85%	5.50%
MY-2004	75,838	4,548	6.00%	0.72%	0.14%	5.14%	0.72%	5.05%
MY-2005	51,679	2,111	4.08%	0.57%	0.09%	3.48%	0.48%	3.41%
MY-2006	87,268	3,528	4.04%	0.46%	0.08%	3.41%	0.47%	3.37%
MY-2007	47,746	984	2.06%	0.29%	0.03%	1.79%	0.22%	1.74%
MY-2008	12,735	241	1.89%	0.81%	0.08%	1.46%	0.22%	1.44%
MY-2009	7,669	137	1.79%	0.46%	0.01%	1.63%	0.07%	1.63%
MY-2010	5,056	56	1.11%	0.30%	0.00%	0.99%	0.10%	0.99%
MY-2011	6,207	66	1.06%	0.52%	0.06%	0.90%	0.06%	0.85%
MY-2012	5,695	70	1.23%	0.19%	0.05%	0.98%	0.14%	0.98%
MY-2013	730	18	2.47%	0.14%	0.00%	2.05%	0.41%	2.05%
All Model Years	810,630	91,439	11.28%	5.08%	1.09%	7.23%	1.65%	5.10%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	279
Certificate of Non Compliance	0
Parts Cost	66
Hardship Extensions	1
Exempt Vehicle	25
Exempted by Directive	3
Parts Exemption	10
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>384</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,082
Stations Locked-Out at Least Once	992
Stations Conducted at Least One Test	7,075

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	7,762	4,403
EA	Gas Endorsement	7	0
EB	Both Endorsement	30	0
EB	Gas Endorsement	330	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	437,495	46.72	74,354	47.53	511,849	46.83
Test and Repair	128,996	47.36	75,576	46.20	204,572	46.93
Test and Repair Dealer	12	76.83	3,819	52.33	3,831	52.41
Referee	109	30.00	41	30.00	150	30.00
Gold Shield in Enhanced Area	39,059	45.84	7,400	47.09	46,459	46.04
Gold Shield in Basic Area	278	62.41	6,990	38.53	7,268	39.44
Gold Shield in COO Area	1,615	52.84	3,691	52.27	5,306	52.44

**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	2,510	23.18	<b>11,542</b>	<b>297.12</b>
	\$51-150	2,479	101.74		
	\$151-250	1,851	200.69		
	\$251-450	2,331	341.45		
	Over \$450	2,371	823.10		
CAP Repairs	\$1-50	50	23.70	<b>730</b>	<b>382.07</b>
	\$51-150	81	99.05		
	\$151-250	77	203.22		
	\$251-450	198	347.29		
	Over \$450	324	571.90		
Total Repairs	\$1-50	2,479	23.20	<b>11,764</b>	<b>315.22</b>
	\$51-150	2,293	101.16		
	\$151-250	1,829	201.19		
	\$251-450	2,433	343.01		
	Over \$450	2,730	811.82		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	697	382.07

**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	Referee	0	1	0	0	0	1	0	1
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	73	11	1	0	6	3	7	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	53	14	0	0	5	8	8	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	7	2	1	0	0	2	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	190	45	4	2	18	23	23	8
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	1,039	218	23	11	89	101	138	32
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	29,131	5,372	523	367	2,415	2,516	3,434	836
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	55	1	2	27	24	30	2
Acceleration Simulation Mode (ASM)	Enhanced	Referee	72	70	14	25	16	38	37	35
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	91,512	6,295	430	453	3,797	1,985	4,566	845
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	358,003	57,979	5,710	4,043	23,415	28,681	35,192	8,435
Acceleration Simulation Mode (ASM)	No Program	Test Only	2	2	1	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	30	11	1	0	2	8	4	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	228	44	7	1	24	17	25	4
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,114	464	53	25	222	231	305	65
Acceleration Simulation Mode (ASM)	Partial	Referee	4	4	1	1	2	1	4	2
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,073	2,301	205	124	928	1,157	1,371	246
Acceleration Simulation Mode (ASM)	Partial	Test Only	10,658	1,753	165	138	726	871	1,037	260
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	39	9	3	0	5	4	9	1
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,182	187	23	16	98	84	129	33
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	87	10	0	22	64	24	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	11	7	1	4	0	5	4	5

	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 and Repair	10,281	713	80	58	379	283	481	111
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	12,344	1,591	182	161	738	723	1,046	345
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	5,324	716	84	60	330	189	497	142
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	166	28	8	0	16	11	18	2
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,100	190	30	12	102	57	139	26
Two Speed Idle (TSI)	Basic	Government Fleet	0	21	4	0	12	6	15	0
Two Speed Idle (TSI)	Basic	Referee	10	13	2	7	3	4	9	11
Two Speed Idle (TSI)	Basic	Test and Repair	41,355	3,760	390	209	1,954	971	2,840	452
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,822	125	10	4	67	32	92	11
Two Speed Idle (TSI)	Basic	Test Only	9,237	1,100	135	92	558	311	807	178
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	46	17	1	2	7	6	11	2
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,472	252	52	11	101	96	167	30
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	75	12	1	1	5	3	7	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,197	153	29	11	76	50	119	23
Two Speed Idle (TSI)	Change of Ownership	Test Only	899	155	21	15	54	52	113	27
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	436	41	3	3	15	15	25	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	599	68	13	1	41	23	51	7
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,824	458	39	26	320	101	366	50
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	20	5	0	9	9	11	0
Two Speed Idle (TSI)	Enhanced	Referee	17	14	3	6	5	4	8	8
Two Speed Idle (TSI)	Enhanced	Test and Repair	20,039	1,043	73	72	728	179	829	127
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	278	14	2	0	9	2	12	1
Two Speed Idle (TSI)	Enhanced	Test Only	54,278	4,289	397	265	2,874	824	3,378	577
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	32	3	1	0	1	1	2	2
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	59	7	1	0	5	1	6	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	271	29	5	0	20	7	25	4
Two Speed Idle (TSI)	Partial	Test and Repair	2,284	180	16	8	117	39	138	18
Two Speed Idle (TSI)	Partial	Test Only	1,345	114	12	12	65	27	79	20

	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 Basic Area	263	28	2	5	18	4	20	9
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	877	78	13	8	44	23	60	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	360	37	5	5	22	8	29	7
Two Speed Idle (TSI)	Unknown Program	Referee	5	4	1	2	0	1	4	4
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,333	282	38	25	148	77	202	56
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	416	8	0	0	6	2	6	0
Two Speed Idle (TSI)	Unknown Program	Test Only	3,896	252	25	25	165	57	191	33
UnKnown TestType	Basic	Gold Shield in Basic Area	264	9	0	2	3	12	3	7
UnKnown TestType	Basic	Gold Shield in Enhanced Area	50	3	0	0	2	5	2	1
UnKnown TestType	Basic	Government Fleet	0	1	0	0	1	13	1	0
UnKnown TestType	Basic	Test and Repair	2,097	74	0	12	56	131	56	20
UnKnown TestType	Basic	Test and Repair Dealer	319	6	0	1	6	16	6	1
UnKnown TestType	Basic	Test Only	381	17	0	3	13	26	13	6
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	93	8	0	0	7	8	7	1
UnKnown TestType	Change of Ownership	Test and Repair	58	2	0	0	0	3	0	2
UnKnown TestType	Enhanced	Gold Shield in Basic Area	29	3	0	1	2	4	2	1
UnKnown TestType	Enhanced	Gold Shield in COO Area	71	4	0	1	3	6	3	1
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	853	28	0	1	22	50	22	6
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	32	0	0
UnKnown TestType	Enhanced	Referee	10	2	0	2	0	2	0	2
UnKnown TestType	Enhanced	Test and Repair	3,261	112	0	16	80	199	80	36
UnKnown TestType	Enhanced	Test and Repair Dealer	24	0	0	0	0	2	0	0
UnKnown TestType	Enhanced	Test Only	6,562	289	0	50	205	347	205	97
UnKnown TestType	Partial	Gold Shield in COO Area	19	2	0	1	0	2	0	2
UnKnown TestType	Partial	Gold Shield in Enhanced Area	134	10	0	2	5	12	5	6
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	2	0	0
UnKnown TestType	Partial	Referee	0	3	0	2	2	3	2	2
UnKnown TestType	Partial	Test and Repair	984	53	0	8	31	73	31	24
UnKnown TestType	Partial	Test Only	411	20	0	7	13	24	13	10

	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	Unknown Program	Gold Shield in COO Area	87	3	0	3	0	7	0	3
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	55	2	0	0	1	7	1	1
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	26	0	0
UnKnown TestType	Unknown Program	Referee	11	3	0	3	1	3	1	3
UnKnown TestType	Unknown Program	Test and Repair	507	13	0	3	7	81	7	7
UnKnown TestType	Unknown Program	Test and Repair Dealer	15	0	0	0	0	3	0	0
UnKnown TestType	Unknown Program	Test Only	491	17	0	5	10	47	10	9