

# Executive Summary Report

## SMOG CHECK Statewide

January 2011

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	920,990	109,418	11.88%
Total	1,054,395	140,664	13.34%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	801,323	87.01%	119,667	12.99%
Total	899,097	85.27%	155,298	14.73%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	501,431	86.57%	77,779	13.43%
Total	566,635	85.55%	95,738	14.45%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,172	1.32%
All Emissions	53,192	5.78%
All Visual	12,444	1.35%
All Functional	70,191	7.62%
OBDII	47,677	5.18%
Overall	109,418	11.88%

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

	Initial Tests	Certificates Issued
Volunteers	326,114	294,791
Directed Vehicles	253,096	206,640
Total	579,210	501,431

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	54,657	47,694
Directed Vehicles	21,032	16,016
Total	75,689	63,710

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,592	275	534	28	0	4,429
Test Only	2,422	43	23	1	0	2,489
Basic Area Dealer	0	1	103	0	0	104
Gold Shield	483	27	47	77	0	634
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	6,814	356	754	109	0	8,033

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	741,934	90,188	12.16%	9,858	1.33%
Partially Enhanced	45,830	6,356	13.87%	667	1.46%
Basic	82,556	8,087	9.80%	1,019	1.23%
Change of Ownership	5,639	696	12.34%	138	2.45%
No Program	8	1	12.50%	1	12.50%
Unknown Program	45,023	4,090	9.08%	489	1.09%
Total Program Area	920,990	109,418	11.88%	12,172	1.32%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	579,210	76,399	13.19%	8,944	1.54%
Regular	256,653	20,898	8.14%	1,852	0.72%
Basic Area Dealer	5,491	240	4.37%	26	0.47%
Gold Shield in Enhanced Area	59,418	9,264	15.59%	968	1.63%
Gold Shield in Basic Area	11,153	1,455	13.05%	199	1.78%
Gold Shield in COO Area	5,118	645	12.60%	124	2.42%
Business Fleet	4	0	0.00%	0	0.00%
Permanent Fleet Registered	43	2	4.65%	0	0.00%
Referee	398	200	50.25%	32	8.04%
Government Fleet	3,502	315	8.99%	27	0.77%
Total	920,990	109,418	11.88%	12,172	1.32%

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-1952	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	963	249	25.86%	18.07%	7.06%	13.60%	6.33%	0.00%
MY-1977	1,282	377	29.41%	20.36%	7.25%	16.15%	7.57%	0.00%
MY-1978	1,438	395	27.47%	18.92%	7.44%	15.51%	7.72%	0.00%
MY-1979	1,793	492	27.44%	19.30%	8.25%	15.23%	8.48%	0.00%
MY-1980	1,061	293	27.62%	19.42%	8.86%	14.89%	7.82%	0.00%
MY-1981	1,132	332	29.33%	23.67%	8.13%	14.40%	6.36%	0.00%
MY-1982	1,288	373	28.96%	21.27%	7.92%	14.75%	8.23%	0.00%
MY-1983	1,704	498	29.23%	23.36%	9.04%	13.15%	6.57%	0.00%
MY-1984	3,200	1,007	31.47%	25.12%	9.59%	14.59%	6.59%	0.00%
MY-1985	4,464	1,392	31.18%	25.67%	9.12%	15.05%	5.94%	0.00%
MY-1986	6,067	1,772	29.21%	23.27%	8.47%	14.08%	5.92%	0.00%
MY-1987	7,330	2,183	29.78%	23.97%	7.71%	14.11%	5.70%	0.00%
MY-1988	8,873	2,458	27.70%	22.08%	7.24%	12.40%	4.95%	0.00%
MY-1989	12,336	3,243	26.29%	20.53%	5.65%	12.39%	4.21%	0.00%
MY-1990	15,632	4,083	26.12%	20.97%	5.50%	11.69%	3.50%	0.00%
MY-1991	18,381	4,506	24.51%	19.22%	5.20%	11.21%	3.24%	0.00%
MY-1992	18,739	4,516	24.10%	19.17%	4.57%	10.13%	3.15%	0.00%
MY-1993	22,966	5,873	25.57%	20.89%	4.27%	9.87%	2.83%	0.00%
MY-1994	28,636	6,573	22.95%	17.84%	3.20%	9.33%	2.67%	0.00%
MY-1995	38,658	7,711	19.95%	15.50%	2.51%	7.59%	2.35%	0.00%
MY-1996	31,731	5,895	18.58%	8.46%	1.42%	12.29%	1.87%	11.37%
MY-1997	49,711	7,386	14.86%	6.22%	0.95%	10.00%	1.39%	9.32%
MY-1998	45,300	6,289	13.88%	5.11%	0.89%	9.96%	1.39%	9.42%
MY-1999	70,184	6,798	9.69%	2.81%	0.51%	7.39%	0.98%	7.04%
MY-2000	55,103	6,027	10.94%	2.56%	0.51%	8.92%	0.98%	8.67%
MY-2001	97,147	9,156	9.42%	1.29%	0.25%	8.46%	0.68%	8.33%
MY-2002	53,512	5,477	10.24%	1.24%	0.26%	9.35%	0.80%	9.24%
MY-2003	106,992	6,154	5.75%	0.65%	0.14%	5.18%	0.47%	5.12%
MY-2004	49,277	3,166	6.42%	0.66%	0.14%	5.83%	0.50%	5.75%
MY-2005	108,579	3,504	3.23%	0.30%	0.05%	2.88%	0.27%	2.81%
MY-2006	17,984	516	2.87%	0.73%	0.04%	2.45%	0.26%	2.40%
MY-2007	22,620	470	2.08%	0.44%	0.04%	1.82%	0.16%	1.78%
MY-2008	7,872	129	1.64%	0.93%	0.04%	1.44%	0.08%	1.42%
MY-2009	3,666	57	1.55%	0.55%	0.03%	1.45%	0.14%	1.36%
MY-2010	4,384	52	1.19%	0.25%	0.02%	0.94%	0.18%	0.94%
MY-2011	983	16	1.63%	0.92%	0.00%	0.81%	0.81%	0.81%
All Model Years	920,990	109,418	11.88%	5.78%	1.32%	7.62%	1.35%	5.18%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	360
Certificate of Non Compliance	1
Parts Cost	263
Hardship Extensions	0
Exempt Vehicle	48
Exempted by Directive	19
Parts Exemption	12
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>703</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	984
Stations Locked-Out at Least Once	416
Stations Conducted at Least One Test	7,049

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,975	5,666
EA	Gas Endorsement	10	0
EB	Both Endorsement	48	0
EB	Gas Endorsement	466	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	492,658	47.60	73,202	48.64	565,860	47.74
Test and Repair	163,470	47.27	84,658	47.14	248,128	47.23
Test and Repair Dealer	27	64.96	5,055	53.85	5,082	53.90
Referee	166	30.00	52	30.00	218	30.00
Gold Shield in Enhanced Area	50,121	47.44	8,032	49.94	58,153	47.78
Gold Shield in Basic Area	500	63.42	10,332	37.46	10,832	38.66
Gold Shield in COO Area	772	53.91	4,101	54.32	4,873	54.26

### 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	4,891	23.17	<b>18,602</b>	<b>251.46</b>
	\$51-150	4,375	100.45		
	\$151-250	2,906	199.85		
	\$251-450	3,523	339.05		
	Over \$450	2,907	808.25		
CAP Repairs	\$1-50	81	25.32	<b>4,808</b>	<b>428.92</b>
	\$51-150	177	106.71		
	\$151-250	347	206.34		
	\$251-450	1,432	358.45		
	Over \$450	2,771	525.58		
Total Repairs	\$1-50	3,565	23.60	<b>19,671</b>	<b>342.63</b>
	\$51-150	3,295	100.26		
	\$151-250	2,707	201.46		
	\$251-450	4,323	344.42		
	Over \$450	5,781	742.28		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	4,468	428.92

### 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	8	5	2	0	1	4	3	2
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	43	6	1	1	2	3	3	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	50	7	2	1	1	5	3	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	9	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	346	64	6	2	22	37	32	7
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	576	112	15	7	48	60	70	10
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	37,016	7,449	761	400	3,138	3,663	4,731	956
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	105	2	2	71	22	82	2
Acceleration Simulation Mode (ASM)	Enhanced	Referee	88	133	23	52	30	70	71	72
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	117,136	9,693	667	491	6,061	3,067	7,356	970
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	401,852	66,374	7,807	3,286	25,298	36,481	39,737	7,151
Acceleration Simulation Mode (ASM)	No Program	Test Only	2	1	1	0	0	1	1	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	62	23	5	1	8	16	15	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	59	5	0	0	2	3	2	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,944	666	60	34	307	320	429	74
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Referee	2	5	1	4	1	3	3	5
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	18,689	3,134	324	140	1,284	1,564	1,961	324
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	17	2	0	1	0	2	1	1
Acceleration Simulation Mode (ASM)	Partial	Test Only	11,490	2,079	234	129	811	1,072	1,231	277
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,375	270	34	19	111	136	175	44
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	170	20	0	32	121	55	3

	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	Referee	18	5	1	1	1	1	2	2
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	11,700	975	96	59	530	388	678	114
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	13,186	1,759	212	136	817	866	1,133	252
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	7,965	1,226	166	100	508	356	849	244
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	148	16	2	1	6	6	13	1
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,122	215	35	11	102	69	158	31
Two Speed Idle (TSI)	Basic	Government Fleet	0	14	1	0	9	4	10	0
Two Speed Idle (TSI)	Basic	Referee	12	21	5	12	3	9	10	15
Two Speed Idle (TSI)	Basic	Test and Repair	47,534	4,899	582	252	2,288	1,378	3,701	639
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,802	191	23	6	102	55	149	13
Two Speed Idle (TSI)	Basic	Test Only	9,765	1,325	200	61	614	445	920	186
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	55	10	1	0	4	3	8	4
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,966	341	69	19	135	140	239	42
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	105	17	5	2	6	6	15	8
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,552	165	29	15	66	64	124	27
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	39	4	0	0	3	2	3	1
Two Speed Idle (TSI)	Change of Ownership	Test Only	974	145	33	9	49	57	94	18
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	476	45	9	4	16	17	27	8
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	530	45	7	0	24	15	35	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	5,309	521	61	27	331	117	421	66
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	17	1	1	15	1	16	1
Two Speed Idle (TSI)	Enhanced	Referee	13	12	1	6	5	2	7	7
Two Speed Idle (TSI)	Enhanced	Test and Repair	20,567	1,136	98	49	800	190	941	100
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	480	11	1	0	9	1	10	1
Two Speed Idle (TSI)	Enhanced	Test Only	53,063	3,992	399	151	2,742	857	3,174	331
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	43	4	1	1	2	1	2	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	47	4	0	0	3	1	3	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	321	27	5	0	16	6	21	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
Two Speed Idle (TSI)	Partial	Test and Repair	2,420	201	18	14	131	43	159	24
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	44	6	1	0	3	2	6	0
Two Speed Idle (TSI)	Partial	Test Only	1,286	119	18	9	73	36	87	16
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	363	57	11	12	19	21	37	17
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	846	109	31	8	35	56	71	19
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	375	38	5	0	27	8	33	5
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	5	3	0	1	4	1	0
Two Speed Idle (TSI)	Unknown Program	Referee	4	3	1	2	0	1	0	2
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,785	354	37	26	201	94	283	54
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	395	13	1	2	6	4	8	2
Two Speed Idle (TSI)	Unknown Program	Test Only	3,561	272	37	18	175	68	208	30
UnKnown TestType	Basic	Gold Shield in Basic Area	255	23	0	5	15	23	15	11
UnKnown TestType	Basic	Gold Shield in Enhanced Area	55	3	0	0	1	4	1	2
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	2	0	0
UnKnown TestType	Basic	Referee	3	4	0	3	1	4	1	3
UnKnown TestType	Basic	Test and Repair	1,800	102	0	5	87	112	87	20
UnKnown TestType	Basic	Test and Repair Dealer	328	11	0	1	8	14	8	3
UnKnown TestType	Basic	Test Only	316	19	0	8	11	22	11	8
UnKnown TestType	Change of Ownership	Gold Shield in Basic Area	4	1	0	0	0	1	0	1
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	94	5	0	1	4	5	4	1
UnKnown TestType	Change of Ownership	Test and Repair	56	2	0	0	2	2	2	0
UnKnown TestType	Change of Ownership	Test and Repair Dealer	3	1	0	1	0	1	0	1
UnKnown TestType	Change of Ownership	Test Only	17	3	0	1	0	3	0	3
UnKnown TestType	Enhanced	Gold Shield in COO Area	52	4	0	0	3	4	3	1
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	857	43	0	7	34	62	34	11
UnKnown TestType	Enhanced	Government Fleet	0	2	0	0	2	64	2	0
UnKnown TestType	Enhanced	Referee	21	4	0	4	0	4	0	4
UnKnown TestType	Enhanced	Test and Repair	3,105	168	0	21	124	252	124	54
UnKnown TestType	Enhanced	Test and Repair Dealer	30	1	0	0	1	2	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
UnKnown TestType	Enhanced	Test Only	5,071	255	0	44	189	284	189	77
UnKnown TestType	Partial	Gold Shield in Enhanced Area	132	7	0	1	4	7	4	4
UnKnown TestType	Partial	Test and Repair	885	44	0	10	25	53	25	22
UnKnown TestType	Partial	Test Only	398	27	0	4	22	27	22	6
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	11	2	0	0	2	3	2	1
UnKnown TestType	Unknown Program	Gold Shield in COO Area	68	3	0	0	3	3	3	0
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	57	3	0	1	2	8	2	1
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	83	0	0
UnKnown TestType	Unknown Program	Referee	27	11	0	10	0	11	0	11
UnKnown TestType	Unknown Program	Test and Repair	490	19	0	4	12	50	12	7
UnKnown TestType	Unknown Program	Test and Repair Dealer	20	0	0	0	0	2	0	0
UnKnown TestType	Unknown Program	Test Only	391	21	0	2	16	34	16	5