

# Executive Summary Report

## SMOG CHECK Statewide

November 2010

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	787,158	96,503	12.26%
Total	904,174	123,861	13.70%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	679,113	86.27%	108,045	13.73%
Total	764,702	84.57%	139,472	15.43%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	427,944	86.10%	69,084	13.90%
Total	485,541	85.05%	85,371	14.95%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,164	1.42%
All Emissions	48,585	6.17%
All Visual	11,296	1.44%
All Functional	61,325	7.79%
OBDII	40,282	5.12%
Overall	96,503	12.26%

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

	Initial Tests	Certificates Issued
Volunteers	268,791	240,901
Directed Vehicles	228,237	187,043
Total	497,028	427,944

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	46,708	39,765
Directed Vehicles	18,688	14,172
Total	65,396	53,937

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,614	273	532	28	0	4,447
Test Only	2,419	42	24	1	0	2,486
Basic Area Dealer	0	1	103	0	0	104
Gold Shield	475	26	48	76	0	625
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	6,825	352	754	108	0	8,039

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	628,081	78,937	12.57%	8,887	1.41%
Partially Enhanced	40,464	5,780	14.28%	639	1.58%
Basic	73,350	7,323	9.98%	1,036	1.41%
Change of Ownership	4,995	705	14.11%	143	2.86%
No Program	5	1	20.00%	0	0.00%
Unknown Program	40,263	3,757	9.33%	459	1.14%
Total Program Area	787,158	96,503	12.26%	11,164	1.42%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	497,028	66,994	13.48%	8,041	1.62%
Regular	217,261	18,579	8.55%	1,843	0.85%
Basic Area Dealer	4,662	199	4.27%	16	0.34%
Gold Shield in Enhanced Area	50,814	8,355	16.44%	925	1.82%
Gold Shield in Basic Area	10,176	1,375	13.51%	185	1.82%
Gold Shield in COO Area	4,406	594	13.48%	111	2.52%
Business Fleet	9	0	0.00%	0	0.00%
Permanent Fleet Registered	51	4	7.84%	0	0.00%
Referee	407	193	47.42%	29	7.13%
Government Fleet	2,344	210	8.96%	14	0.60%
Total	787,158	96,503	12.26%	11,164	1.42%

**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	800	213	26.63%	18.50%	7.63%	16.00%	9.13%	0.00%
MY-1977	1,287	344	26.73%	17.72%	5.83%	15.15%	7.61%	0.00%
MY-1978	1,414	393	27.79%	17.47%	6.65%	15.70%	7.78%	0.00%
MY-1979	1,719	528	30.72%	21.99%	8.84%	18.09%	9.13%	0.00%
MY-1980	944	249	26.38%	19.17%	9.22%	14.94%	6.46%	0.00%
MY-1981	1,088	327	30.06%	24.72%	10.02%	13.97%	6.16%	0.00%
MY-1982	1,365	414	30.33%	24.76%	9.23%	15.16%	6.81%	0.00%
MY-1983	1,553	481	30.97%	24.98%	10.43%	14.62%	7.73%	0.00%
MY-1984	3,129	990	31.64%	25.98%	10.35%	14.29%	7.16%	0.00%
MY-1985	4,153	1,285	30.94%	25.50%	9.68%	15.03%	6.09%	0.00%
MY-1986	5,866	1,647	28.08%	22.30%	7.98%	13.59%	5.92%	0.00%
MY-1987	7,584	2,257	29.76%	23.93%	7.53%	13.49%	5.21%	0.00%
MY-1988	8,353	2,345	28.07%	22.87%	7.16%	12.75%	4.53%	0.00%
MY-1989	12,092	3,221	26.64%	20.98%	5.82%	12.74%	4.08%	0.00%
MY-1990	14,401	3,655	25.38%	20.17%	5.41%	11.27%	3.35%	0.00%
MY-1991	18,100	4,450	24.59%	19.21%	4.70%	11.14%	2.99%	0.00%
MY-1992	17,261	4,073	23.60%	18.80%	4.66%	9.62%	3.00%	0.00%
MY-1993	21,711	5,567	25.64%	21.06%	4.27%	9.98%	3.17%	0.00%
MY-1994	26,463	6,029	22.78%	17.61%	3.18%	9.28%	2.75%	0.00%
MY-1995	30,468	6,445	21.15%	16.42%	2.77%	8.39%	2.66%	0.00%
MY-1996	34,499	5,832	16.90%	7.45%	1.12%	11.39%	1.68%	10.54%
MY-1997	35,307	5,654	16.01%	6.47%	0.99%	11.31%	1.50%	10.62%
MY-1998	52,745	6,277	11.90%	4.25%	0.75%	8.61%	1.15%	8.09%
MY-1999	44,173	4,637	10.50%	3.14%	0.54%	8.22%	1.06%	7.88%
MY-2000	82,578	7,286	8.82%	1.83%	0.37%	7.34%	0.81%	7.11%
MY-2001	48,712	5,110	10.49%	1.59%	0.25%	9.45%	0.74%	9.34%
MY-2002	96,385	7,487	7.77%	0.89%	0.20%	6.99%	0.63%	6.87%
MY-2003	43,255	2,576	5.96%	0.96%	0.14%	5.28%	0.56%	5.19%
MY-2004	102,032	4,872	4.77%	0.53%	0.11%	4.28%	0.41%	4.19%
MY-2005	29,576	978	3.31%	0.69%	0.03%	2.88%	0.34%	2.82%
MY-2006	15,932	490	3.08%	0.85%	0.08%	2.65%	0.36%	2.57%
MY-2007	8,561	188	2.20%	0.70%	0.04%	1.93%	0.19%	1.86%
MY-2008	6,130	94	1.53%	1.47%	0.00%	1.39%	0.10%	1.39%
MY-2009	3,617	59	1.63%	0.64%	0.06%	1.52%	0.03%	1.49%
MY-2010	3,455	42	1.22%	0.29%	0.00%	1.07%	0.09%	1.07%
MY-2011	450	8	1.78%	0.67%	0.00%	1.56%	0.22%	1.56%
All Model Years	787,158	96,503	12.26%	6.17%	1.42%	7.79%	1.44%	5.12%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	382
Certificate of Non Compliance	1
Parts Cost	165
Hardship Extensions	0
Exempt Vehicle	21
Exempted by Directive	6
Parts Exemption	19
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>594</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	935
Stations Locked-Out at Least Once	399
Stations Conducted at Least One Test	7,104

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,958	5,932
EA	Gas Endorsement	10	0
EB	Both Endorsement	48	0
EB	Gas Endorsement	466	0
EU	Both 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	424,784	47.58	61,732	48.70	486,516	47.72
Test and Repair	135,288	46.68	73,759	46.65	209,047	46.67
Test and Repair Dealer	28	65.54	4,195	51.38	4,223	51.48
Referee	167	30.00	56	30.00	223	30.00
Gold Shield in Enhanced Area	42,740	47.91	6,840	50.07	49,580	48.20
Gold Shield in Basic Area	414	62.61	9,412	40.42	9,826	41.36
Gold Shield in COO Area	527	54.94	3,687	53.74	4,214	53.89

**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	4,252	22.66	<b>16,116</b>	<b>243.13</b>
	\$51-150	3,979	100.53		
	\$151-250	2,463	201.28		
	\$251-450	3,091	339.13		
	Over \$450	2,331	805.65		
CAP Repairs	\$1-50	95	24.52	<b>4,011</b>	<b>421.76</b>
	\$51-150	149	102.19		
	\$151-250	317	207.06		
	\$251-450	1,228	362.03		
	Over \$450	2,222	523.82		
Total Repairs	\$1-50	3,272	23.01	<b>16,985</b>	<b>330.29</b>
	\$51-150	2,995	100.14		
	\$151-250	2,340	202.84		
	\$251-450	3,714	346.31		
	Over \$450	4,664	744.85		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	3,748	421.76

**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	10	6	1	0	2	4	3	2
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	21	7	1	0	2	6	2	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	15	2	3	3	10	8	2
Acceleration Simulation Mode (ASM)	Basic	Test Only	139	28	4	1	13	14	16	5
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	0	2	1	1	0	1	2	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	14	9	2	1	4	5	6	2
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	260	68	9	1	26	31	37	13
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	365	66	6	4	26	30	40	12
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	30,849	6,645	697	387	2,725	3,398	4,137	914
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	65	2	0	29	30	35	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	105	126	19	49	31	71	73	68
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	93,213	8,201	625	419	4,911	2,808	6,193	809
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	343,047	58,078	6,925	2,966	21,183	32,620	34,560	6,402
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	53	15	1	0	7	9	8	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	56	8	1	0	3	4	4	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,450	642	78	32	252	336	404	60
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	2	9	1	5	2	5	6	5
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,402	2,819	279	143	1,063	1,453	1,692	315
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,955	1,855	229	117	624	1,024	1,068	262
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	23	6	1	1	2	2	4	1
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,234	244	39	16	110	116	163	37

	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	94	4	0	29	64	32	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	10	6	2	3	0	3	5	6
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	10,873	976	95	70	530	408	679	115
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,651	1,593	213	90	709	812	1,046	215
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	7,109	1,140	156	99	447	363	781	253
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	151	17	4	1	8	4	13	1
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	980	198	34	18	84	71	145	35
Two Speed Idle (TSI)	Basic	Government Fleet	0	14	3	0	7	6	9	0
Two Speed Idle (TSI)	Basic	Referee	15	20	2	11	4	6	15	16
Two Speed Idle (TSI)	Basic	Test and Repair	41,745	4,502	642	250	2,007	1,364	3,290	606
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,143	145	14	5	81	37	106	14
Two Speed Idle (TSI)	Basic	Test Only	8,256	1,060	173	63	441	368	727	164
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	65	17	3	2	7	5	15	4
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,596	324	76	26	100	160	192	51
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	100	21	3	2	4	10	13	4
Two Speed Idle (TSI)	Change of Ownership	Referee	0	4	0	3	1	2	2	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,474	179	28	11	83	59	134	23
Two Speed Idle (TSI)	Change of Ownership	Test Only	808	131	30	12	34	59	79	32
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	419	34	2	5	23	3	27	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	422	53	5	3	29	14	42	3
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,342	465	62	20	285	115	364	44
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	23	5	0	11	6	18	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	30	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Enhanced	Referee	11	15	3	6	5	4	9	9
Two Speed Idle (TSI)	Enhanced	Test and Repair	16,512	1,023	102	45	687	208	830	84
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	324	14	1	0	9	3	10	1
Two Speed Idle (TSI)	Enhanced	Test Only	44,076	3,555	424	150	2,346	831	2,793	304

	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	49	8	2	1	2	4	4	1
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	38	5	1	0	4	1	4	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	272	24	4	1	16	7	20	1
Two Speed Idle (TSI)	Partial	Test and Repair	1,921	193	24	4	115	49	146	16
Two Speed Idle (TSI)	Partial	Test Only	1,096	117	19	10	59	31	78	20
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	367	60	11	11	28	23	42	14
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	865	95	17	7	39	36	69	15
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	328	32	7	3	20	8	27	5
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	8	0	0	6	2	6	0
Two Speed Idle (TSI)	Unknown Program	Referee	12	3	1	2	0	1	3	3
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,389	364	46	30	208	98	275	61
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	388	19	1	0	16	4	16	1
Two Speed Idle (TSI)	Unknown Program	Test Only	3,111	216	22	10	151	54	166	17
UnKnown TestType	Basic	Gold Shield in Basic Area	265	21	0	2	17	26	17	6
UnKnown TestType	Basic	Gold Shield in COO Area	9	1	0	0	1	1	1	0
UnKnown TestType	Basic	Gold Shield in Enhanced Area	62	6	0	1	5	6	5	2
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	5	0	0
UnKnown TestType	Basic	Referee	3	1	0	0	0	1	0	1
UnKnown TestType	Basic	Test and Repair	1,751	108	0	10	88	151	88	28
UnKnown TestType	Basic	Test and Repair Dealer	348	12	0	2	8	15	8	4
UnKnown TestType	Basic	Test Only	279	21	0	2	20	23	20	2
UnKnown TestType	Change of Ownership	Gold Shield in Basic Area	6	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	54	9	0	4	3	9	3	6
UnKnown TestType	Change of Ownership	Gold Shield in Enhanced Area	3	1	0	0	1	1	1	0
UnKnown TestType	Change of Ownership	Test and Repair	56	3	0	0	2	3	2	1
UnKnown TestType	Change of Ownership	Test Only	20	2	0	2	0	2	0	2
UnKnown TestType	Enhanced	Gold Shield in Basic Area	22	3	0	0	2	4	2	1
UnKnown TestType	Enhanced	Gold Shield in COO Area	40	5	0	1	2	13	2	3
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	772	52	0	6	39	85	39	14

	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	Government Fleet	0	3	0	0	2	62	2	1
UnKnown TestType	Enhanced	Referee	16	2	0	1	1	2	1	2
UnKnown TestType	Enhanced	Test and Repair	2,894	146	0	23	108	249	108	45
UnKnown TestType	Enhanced	Test and Repair Dealer	31	1	0	0	1	5	1	0
UnKnown TestType	Enhanced	Test Only	4,752	290	0	46	233	345	233	75
UnKnown TestType	Partial	Gold Shield in Basic Area	5	2	0	0	1	2	1	1
UnKnown TestType	Partial	Gold Shield in COO Area	3	1	0	1	0	1	0	1
UnKnown TestType	Partial	Gold Shield in Enhanced Area	144	13	0	2	11	17	11	2
UnKnown TestType	Partial	Government Fleet	0	0	0	0	0	8	0	0
UnKnown TestType	Partial	Test and Repair	865	37	0	6	29	57	29	11
UnKnown TestType	Partial	Test and Repair Dealer	13	2	0	0	0	2	0	2
UnKnown TestType	Partial	Test Only	428	24	0	8	16	33	16	10
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	12	0	0	0	0	7	0	0
UnKnown TestType	Unknown Program	Gold Shield in COO Area	56	4	0	0	4	6	4	0
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	56	5	0	1	3	13	3	2
UnKnown TestType	Unknown Program	Government Fleet	0	2	0	0	2	63	2	0
UnKnown TestType	Unknown Program	Referee	13	2	0	2	0	2	1	2
UnKnown TestType	Unknown Program	Test and Repair	403	12	0	2	7	49	7	5
UnKnown TestType	Unknown Program	Test and Repair Dealer	21	1	0	0	1	1	1	0
UnKnown TestType	Unknown Program	Test Only	308	15	0	2	12	33	12	3