

# Executive Summary Report

## SMOG CHECK Statewide

January 2010

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	813,112	90,970	11.19%
Total	922,215	114,739	12.44%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	711,873	87.55%	101,239	12.45%
Total	793,518	86.04%	128,697	13.96%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	441,652	87.52%	62,997	12.48%
Total	494,367	86.66%	76,101	13.34%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,581	1.55%
All Emissions	43,402	5.34%
All Visual	10,965	1.35%
All Functional	60,402	7.43%
OBDII	38,296	4.71%
Overall	90,970	11.19%

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

	Initial Tests	Certificates Issued
Volunteers	276,589	251,159
Directed Vehicles	228,060	190,493
Total	504,649	441,652

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	51,005	44,539
Directed Vehicles	19,494	15,030
Total	70,499	59,569

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,757	266	528	30	0	4,581
Test Only	2,331	46	23	1	0	2,401
Basic Area Dealer	0	1	110	0	0	111
Gold Shield	497	33	51	79	0	660
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	30	1	5	0	0	36
Referee	36	0	6	1	0	43
Government Fleet	246	9	37	2	0	294
Unknown Type	1	0	0	0	0	1
Total	6,901	356	760	113	0	8,130

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	658,066	74,548	11.33%	10,111	1.54%
Partially Enhanced	40,404	5,152	12.75%	701	1.73%
Basic	70,670	7,112	10.06%	1,109	1.57%
Change of Ownership	4,746	630	13.27%	155	3.27%
No Program	1	0	0.00%	0	0.00%
Unknown Program	39,225	3,528	8.99%	505	1.29%
Total Program Area	813,112	90,970	11.19%	12,581	1.55%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	504,649	61,733	12.23%	9,009	1.79%
Regular	229,455	18,161	7.91%	2,034	0.89%
Basic Area Dealer	4,512	187	4.14%	18	0.40%
Gold Shield in Enhanced Area	56,226	8,423	14.98%	1,124	2.00%
Gold Shield in Basic Area	9,993	1,387	13.88%	218	2.18%
Gold Shield in COO Area	4,280	556	12.99%	119	2.78%
Business Fleet	6	1	16.67%	0	0.00%
Permanent Fleet Registered	19	1	5.26%	0	0.00%
Referee	491	260	52.95%	35	7.13%
Government Fleet	3,481	261	7.50%	24	0.69%
Total	813,112	90,970	11.19%	12,581	1.55%

**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	913	244	26.73%	18.07%	8.43%	15.12%	7.78%	0.00%
MY-1977	1,276	335	26.25%	15.44%	7.37%	17.87%	8.15%	0.00%
MY-1978	1,435	357	24.88%	17.35%	8.85%	14.29%	7.87%	0.00%
MY-1979	1,696	502	29.60%	20.75%	9.85%	18.93%	9.20%	0.00%
MY-1980	1,024	284	27.73%	20.21%	10.64%	16.60%	9.57%	0.00%
MY-1981	1,182	345	29.19%	22.76%	10.74%	15.48%	8.71%	0.00%
MY-1982	1,368	397	29.02%	22.00%	9.80%	14.55%	7.82%	0.00%
MY-1983	1,648	462	28.03%	21.24%	9.22%	15.17%	7.83%	0.00%
MY-1984	3,455	976	28.25%	22.37%	11.26%	14.82%	7.41%	0.00%
MY-1985	4,658	1,264	27.14%	21.58%	9.92%	14.49%	6.01%	0.00%
MY-1986	6,469	1,631	25.21%	18.78%	8.32%	14.39%	5.21%	0.00%
MY-1987	7,740	1,994	25.76%	20.00%	7.62%	12.93%	4.56%	0.00%
MY-1988	9,483	2,319	24.45%	18.52%	7.30%	12.77%	4.60%	0.00%
MY-1989	13,419	2,967	22.11%	16.15%	6.24%	11.85%	4.04%	0.00%
MY-1990	16,581	3,606	21.75%	16.31%	5.59%	11.10%	3.20%	0.00%
MY-1991	18,995	3,995	21.03%	15.38%	5.00%	10.57%	3.13%	0.00%
MY-1992	19,707	3,904	19.81%	14.86%	4.86%	9.38%	2.58%	0.00%
MY-1993	23,889	5,145	21.54%	16.79%	4.07%	9.42%	2.62%	0.00%
MY-1994	29,613	5,462	18.44%	13.48%	3.00%	8.28%	2.51%	0.00%
MY-1995	32,583	5,650	17.34%	12.40%	2.90%	7.68%	2.43%	0.00%
MY-1996	38,665	6,197	16.03%	6.78%	1.15%	11.26%	1.52%	10.53%
MY-1997	40,233	6,493	16.14%	6.27%	1.13%	11.92%	1.33%	11.20%
MY-1998	55,913	6,427	11.49%	3.93%	0.74%	8.61%	0.99%	8.26%
MY-1999	49,971	5,608	11.22%	2.82%	0.61%	9.18%	0.94%	8.82%
MY-2000	90,132	7,112	7.89%	1.57%	0.35%	6.64%	0.61%	6.43%
MY-2001	50,934	5,013	9.84%	1.37%	0.31%	8.77%	0.80%	8.57%
MY-2002	93,622	4,871	5.20%	0.56%	0.13%	4.58%	0.44%	4.46%
MY-2003	47,424	3,213	6.78%	0.91%	0.28%	6.05%	0.51%	5.91%
MY-2004	101,881	3,003	2.95%	0.29%	0.07%	2.63%	0.24%	2.50%
MY-2005	13,489	426	3.16%	0.44%	0.10%	2.71%	0.33%	2.60%
MY-2006	19,715	516	2.62%	0.27%	0.05%	2.31%	0.13%	2.22%
MY-2007	5,628	103	1.83%	0.21%	0.04%	1.71%	0.04%	1.53%
MY-2008	4,661	93	2.00%	0.21%	0.04%	1.87%	0.13%	1.78%
MY-2009	3,054	51	1.67%	0.10%	0.00%	1.60%	0.03%	1.51%
MY-2010	656	5	0.76%	0.15%	0.00%	0.61%	0.15%	0.61%
All Model Years	813,112	90,970	11.19%	5.34%	1.55%	7.43%	1.35%	4.71%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	402
Certificate of Non Compliance	1
Parts Cost	203
Hardship Extensions	0
Exempt Vehicle	10
Exempted by Directive	63
Parts Exemption	8
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	1
	<b>688</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,137
Stations Locked-Out at Least Once	410
Stations Conducted at Least One Test	6,993

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,723	5,817
EA	Gas Endorsement	10	0
EB	Both Endorsement	47	0
EB	Gas Endorsement	483	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	423,897	48.53	56,926	49.11	480,823	48.60
Test and Repair	143,758	46.88	73,726	46.69	217,484	46.82
Test and Repair Dealer	24	64.92	4,097	51.85	4,121	51.93
Referee	174	30.00	70	30.00	244	30.00
Gold Shield in Enhanced Area	46,607	48.51	7,245	49.67	53,852	48.67
Gold Shield in Basic Area	399	61.52	9,100	38.13	9,499	39.12
Gold Shield in COO Area	650	56.33	3,364	53.74	4,014	54.16

**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	5,235	22.43	<b>18,434</b>	<b>220.46</b>
	\$51-150	4,677	100.99		
	\$151-250	2,888	199.30		
	\$251-450	3,302	338.16		
	Over \$450	2,332	764.20		
CAP Repairs	\$1-50	105	25.58	<b>4,423</b>	<b>412.49</b>
	\$51-150	179	109.91		
	\$151-250	371	209.63		
	\$251-450	1,417	357.37		
	Over \$450	2,351	518.04		
Total Repairs	\$1-50	4,145	22.85	<b>19,268</b>	<b>305.61</b>
	\$51-150	3,441	100.88		
	\$151-250	2,715	201.12		
	\$251-450	4,089	345.42		
	Over \$450	4,878	715.08		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	4,178	412.49

**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	14	3	1	0	3	1	3	0
Acceleration Simulation Mode (ASM)	Basic	Referee	0	1	0	0	0	1	0	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	Test and Repair	38	7	1	0	4	3	4	0
Acceleration Simulation Mode (ASM)	Basic	Test Only	45	3	0	1	0	2	2	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	296	49	2	0	17	24	27	4
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	522	82	8	1	33	37	51	8
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	35,900	6,680	877	357	2,767	3,226	4,370	871
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	88	3	1	54	29	62	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	138	119	22	46	39	60	70	68
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	108,703	8,570	736	460	5,154	2,854	6,500	900
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	363,884	53,724	7,874	2,901	20,334	28,890	34,135	6,371
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	52	16	2	1	9	9	10	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	50	7	1	0	3	3	5	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	3,254	700	96	23	299	343	477	60
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	1	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Referee	8	7	1	5	1	2	2	7
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,769	2,394	311	116	905	1,211	1,501	261
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	11	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	10,558	1,703	250	87	606	915	1,039	199
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Basic Area	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,382	213	27	21	91	105	138	43
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	148	18	1	28	108	49	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	14	6	1	2	4	2	5	2
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	10,079	889	104	65	454	380	616	123
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,510	1,487	240	115	644	758	996	220
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	7,326	1,198	195	106	451	404	816	242
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	178	25	5	3	10	15	14	3
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,134	221	38	14	88	76	165	32
Two Speed Idle (TSI)	Basic	Referee	17	16	5	7	2	6	9	12
Two Speed Idle (TSI)	Basic	Test and Repair	42,029	4,392	665	245	1,755	1,469	3,158	548
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,158	146	15	6	64	33	113	17
Two Speed Idle (TSI)	Basic	Test Only	7,965	1,056	184	60	428	387	738	145
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	42	22	7	3	3	11	19	7
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,516	298	82	25	77	151	189	46
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	84	31	4	3	11	8	23	5
Two Speed Idle (TSI)	Change of Ownership	Referee	2	2	2	0	0	2	0	2
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,406	149	30	13	57	56	106	22
Two Speed Idle (TSI)	Change of Ownership	Test Only	829	117	30	9	30	52	74	24
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	363	34	3	2	17	10	23	6
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	492	45	7	5	20	14	34	7
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,835	506	72	23	298	123	409	57
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	12	1	0	5	6	6	0
Two Speed Idle (TSI)	Enhanced	Referee	31	14	3	9	3	5	4	12
Two Speed Idle (TSI)	Enhanced	Test and Repair	19,722	1,169	107	61	786	211	957	114
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	505	22	2	0	15	5	18	0
Two Speed Idle (TSI)	Enhanced	Test Only	42,313	3,321	394	157	2,053	840	2,556	302
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	47	4	0	0	2	1	3	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	318	34	4	1	15	11	27	2
Two Speed Idle (TSI)	Partial	Test and Repair	2,110	175	27	14	89	53	131	23
Two Speed Idle (TSI)	Partial	Test Only	1,141	95	7	5	66	18	76	6

	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	348	57	9	8	28	16	41	12
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	777	90	16	6	29	35	62	13
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	348	26	5	3	12	12	17	4
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	7	1	0	3	3	4	0
Two Speed Idle (TSI)	Unknown Program	Referee	10	4	1	2	1	2	2	3
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,385	353	53	28	190	104	271	49
Two Speed Idle (TSI)	Unknown Program	Test Only	2,930	197	30	18	131	50	154	24
UnKnown TestType	Basic	Gold Shield in Basic Area	22	4	0	0	3	4	3	3
UnKnown TestType	Basic	Gold Shield in COO Area	8	1	0	0	1	1	1	0
UnKnown TestType	Basic	Gold Shield in Enhanced Area	6	3	0	0	1	3	1	2
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	5	0	0
UnKnown TestType	Basic	Referee	0	13	0	4	0	13	0	5
UnKnown TestType	Basic	Test and Repair	117	11	0	1	10	12	10	1
UnKnown TestType	Basic	Test and Repair Dealer	59	5	0	0	4	5	4	1
UnKnown TestType	Basic	Test Only	44	2	0	0	2	2	2	0
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	35	5	0	2	2	5	2	3
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	42	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Gold Shield in Basic Area	14	1	0	0	0	2	0	1
UnKnown TestType	Enhanced	Gold Shield in COO Area	20	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	45	3	0	0	3	3	3	0
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	4	0	0
UnKnown TestType	Enhanced	Referee	4	52	0	20	0	52	4	26
UnKnown TestType	Enhanced	Test and Repair	468	33	0	7	24	39	24	10
UnKnown TestType	Enhanced	Test and Repair Dealer	37	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Test Only	272	20	0	2	18	29	18	2
UnKnown TestType	Partial	Gold Shield in Enhanced Area	5	1	0	0	1	1	1	0
UnKnown TestType	Partial	Referee	0	6	0	4	0	6	0	4
UnKnown TestType	Partial	Test and Repair	83	4	0	1	2	4	2	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
UnKnown TestType	Partial	Test Only	35	2	0	0	2	2	2	0
UnKnown TestType	Unknown Program	Gold Shield in COO Area	21	2	0	0	2	2	2	1
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	23	1	0	0	1	1	1	0
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	2	0	0
UnKnown TestType	Unknown Program	Referee	2	20	0	8	2	20	2	10
UnKnown TestType	Unknown Program	Test and Repair	222	12	0	5	7	16	7	5
UnKnown TestType	Unknown Program	Test Only	98	5	0	0	5	10	5	1