

# Executive Summary Report

## SMOG CHECK Statewide

September 2010

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	865,701	107,633	12.43%
Total	998,951	138,793	13.89%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	749,513	86.58%	116,188	13.42%
Total	847,349	84.82%	151,602	15.18%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	464,473	86.04%	75,340	13.96%
Total	529,597	84.95%	93,817	15.05%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	13,007	1.50%
All Emissions	55,890	6.46%
All Visual	12,051	1.39%
All Functional	66,906	7.73%
OBDII	43,436	5.02%
Overall	107,633	12.43%

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

	Initial Tests	Certificates Issued
Volunteers	310,480	278,996
Directed Vehicles	229,333	185,477
Total	539,813	464,473

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	53,130	46,052
Directed Vehicles	18,942	14,046
Total	72,072	60,098

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,649	277	535	27	0	4,488
Test Only	2,443	44	22	1	0	2,510
Basic Area Dealer	0	1	105	0	0	106
Gold Shield	480	26	49	77	0	632
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	6,889	358	758	108	0	8,113

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	690,362	88,137	12.77%	10,445	1.51%
Partially Enhanced	44,628	6,300	14.12%	779	1.75%
Basic	79,944	8,059	10.08%	1,071	1.34%
Change of Ownership	5,554	834	15.02%	184	3.31%
No Program	4	0	0.00%	0	0.00%
Unknown Program	45,209	4,303	9.52%	528	1.17%
Total Program Area	865,701	107,633	12.43%	13,007	1.50%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	539,813	74,049	13.72%	9,298	1.72%
Regular	246,388	21,528	8.74%	2,160	0.88%
Basic Area Dealer	4,918	189	3.84%	8	0.16%
Gold Shield in Enhanced Area	55,761	9,197	16.49%	1,108	1.99%
Gold Shield in Basic Area	11,204	1,546	13.80%	249	2.22%
Gold Shield in COO Area	5,107	698	13.67%	136	2.66%
Business Fleet	2	0	0.00%	0	0.00%
Permanent Fleet Registered	96	9	9.38%	1	1.04%
Referee	438	212	48.40%	35	7.99%
Government Fleet	1,974	205	10.39%	12	0.61%
Total	865,701	107,633	12.43%	13,007	1.50%

**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	944	266	28.18%	19.92%	8.58%	14.72%	7.31%	0.00%
MY-1977	1,381	373	27.01%	18.68%	6.81%	15.21%	7.82%	0.00%
MY-1978	1,606	452	28.14%	19.93%	8.72%	15.38%	7.85%	0.00%
MY-1979	1,836	511	27.83%	19.83%	8.50%	15.96%	7.24%	0.00%
MY-1980	1,024	273	26.66%	19.04%	8.30%	14.65%	7.13%	0.00%
MY-1981	1,254	357	28.47%	23.44%	10.53%	15.07%	7.58%	0.00%
MY-1982	1,464	453	30.94%	23.57%	8.67%	14.14%	6.83%	0.00%
MY-1983	1,882	566	30.07%	24.18%	8.71%	15.09%	6.70%	0.00%
MY-1984	3,427	1,064	31.05%	25.53%	10.91%	14.74%	7.38%	0.00%
MY-1985	4,615	1,406	30.47%	25.09%	9.79%	14.78%	6.15%	0.00%
MY-1986	7,380	2,139	28.98%	23.08%	7.87%	13.94%	5.43%	0.00%
MY-1987	7,742	2,308	29.81%	24.55%	8.09%	13.34%	5.33%	0.00%
MY-1988	9,698	2,831	29.19%	23.98%	7.39%	13.15%	4.49%	0.00%
MY-1989	14,080	3,704	26.31%	20.69%	5.48%	12.19%	3.95%	0.00%
MY-1990	16,091	4,148	25.78%	20.76%	5.87%	11.58%	3.29%	0.00%
MY-1991	20,262	5,047	24.91%	20.12%	4.98%	10.48%	3.14%	0.00%
MY-1992	19,827	4,907	24.75%	20.01%	5.02%	9.84%	2.91%	0.00%
MY-1993	24,262	6,358	26.21%	21.61%	4.53%	10.10%	2.90%	0.00%
MY-1994	30,971	6,992	22.58%	17.83%	3.17%	8.96%	2.53%	0.00%
MY-1995	32,993	7,086	21.48%	16.80%	2.98%	8.26%	2.48%	0.00%
MY-1996	39,947	6,545	16.38%	7.55%	1.17%	10.91%	1.51%	10.04%
MY-1997	38,543	6,294	16.33%	6.98%	1.13%	11.27%	1.47%	10.47%
MY-1998	62,407	7,355	11.79%	4.28%	0.69%	8.47%	1.15%	8.02%
MY-1999	43,640	5,015	11.49%	3.38%	0.56%	8.94%	1.11%	8.57%
MY-2000	102,523	8,495	8.29%	1.81%	0.36%	6.78%	0.72%	6.57%
MY-2001	40,881	4,985	12.19%	1.77%	0.34%	11.06%	0.80%	10.92%
MY-2002	115,757	8,191	7.08%	0.87%	0.16%	6.29%	0.55%	6.19%
MY-2003	31,903	2,278	7.14%	1.37%	0.21%	6.26%	0.60%	6.21%
MY-2004	129,471	5,568	4.30%	0.45%	0.10%	3.86%	0.31%	3.80%
MY-2005	16,430	713	4.34%	1.13%	0.07%	3.71%	0.52%	3.63%
MY-2006	18,512	535	2.89%	0.79%	0.05%	2.45%	0.26%	2.42%
MY-2007	8,818	181	2.05%	0.57%	0.02%	1.75%	0.18%	1.72%
MY-2008	6,601	107	1.62%	0.61%	0.03%	1.35%	0.12%	1.26%
MY-2009	4,302	74	1.72%	0.46%	0.02%	1.65%	0.02%	1.53%
MY-2010	2,978	54	1.81%	0.27%	0.03%	1.51%	0.17%	1.34%
MY-2011	249	2	0.80%	0.00%	0.00%	0.80%	0.00%	0.80%
All Model Years	865,701	107,633	12.43%	6.46%	1.50%	7.73%	1.39%	5.02%

**11. Referee Activity**

	Certificates Issued
Certificate of Compliance	410
Certificate of Non Compliance	0
Parts Cost	279
Hardship Extensions	2
Exempt Vehicle	41
Exempted by Directive	8
Parts Exemption	16
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	14
	<b>770</b>

**12. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,011
Stations Locked-Out at Least Once	383
Stations Conducted at Least One Test	7,102

**13. Active Technicians**

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	10,042	6,001
EA	Gas Endorsement	10	0
EB	Both Endorsement	48	0
EB	Gas Endorsement	469	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	463,328	47.82	64,356	48.64	527,684	47.92
Test and Repair	155,999	46.87	81,417	47.04	237,416	46.93
Test and Repair Dealer	39	63.05	4,412	54.78	4,451	54.85
Referee	177	30.00	63	30.00	240	30.00
Gold Shield in Enhanced Area	46,744	47.80	7,451	49.62	54,195	48.05
Gold Shield in Basic Area	468	63.42	10,365	36.99	10,833	38.14
Gold Shield in COO Area	615	56.22	4,294	54.95	4,909	55.11

**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	4,902	23.11	<b>18,552</b>	<b>240.80</b>
	\$51-150	4,508	100.23		
	\$151-250	2,900	200.93		
	\$251-450	3,613	337.78		
	Over \$450	2,629	798.42		
CAP Repairs	\$1-50	109	25.04	<b>4,365</b>	<b>422.79</b>
	\$51-150	164	102.69		
	\$151-250	344	208.08		
	\$251-450	1,314	357.90		
	Over \$450	2,434	527.55		
Total Repairs	\$1-50	3,896	23.49	<b>19,527</b>	<b>323.28</b>
	\$51-150	3,433	99.70		
	\$151-250	2,709	202.22		
	\$251-450	4,300	345.03		
	Over \$450	5,189	741.48		

**16. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	4,071	422.79

**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	5	2	1	0	1	2	1	0
Acceleration Simulation Mode (ASM)	Basic	Referee	0	1	1	0	0	1	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	35	2	0	1	2	1	2	1
Acceleration Simulation Mode (ASM)	Basic	Test Only	16	9	1	0	3	7	3	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	326	56	10	2	11	36	22	6
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	421	91	10	6	29	50	48	13
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	33,897	7,405	864	392	2,850	3,957	4,542	949
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	98	2	1	58	38	61	1
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	37	6	0	0	4	1	5	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	108	135	25	44	29	71	69	61
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	109,514	10,147	830	479	5,981	3,636	7,432	980
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	373,556	64,218	8,084	3,110	22,457	37,458	37,125	6,717
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	60	18	5	0	5	14	8	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	70	8	0	0	3	5	5	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,840	679	88	30	240	387	382	73
Acceleration Simulation Mode (ASM)	Partial	Referee	7	13	3	8	1	8	5	11
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	18,116	3,117	372	147	1,075	1,781	1,795	337
Acceleration Simulation Mode (ASM)	Partial	Test Only	11,243	2,057	260	117	700	1,171	1,190	234
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	24	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,537	244	32	18	110	118	165	36
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	79	10	1	32	46	34	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	10	6	2	2	3	2	4	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	Test and Repair	12,047	1,073	106	72	554	473	729	124
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	13,289	1,960	256	136	844	1,068	1,230	266
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	7,876	1,311	216	99	479	453	864	278
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	307	33	4	1	18	10	26	3
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,150	218	44	11	88	86	157	39
Two Speed Idle (TSI)	Basic	Referee	18	20	2	11	3	10	12	14
Two Speed Idle (TSI)	Basic	Test and Repair	45,898	4,868	613	276	2,112	1,472	3,583	616
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,282	132	6	2	84	25	105	15
Two Speed Idle (TSI)	Basic	Test Only	9,147	1,267	183	71	568	431	902	172
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	58	17	1	3	3	2	11	7
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,879	377	92	25	123	176	250	47
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	115	30	4	4	12	9	24	6
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,469	223	47	16	86	90	169	38
Two Speed Idle (TSI)	Change of Ownership	Test Only	922	172	40	14	63	70	119	29
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	492	57	8	12	33	15	43	11
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	409	51	6	2	29	16	41	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,717	469	65	19	278	128	363	48
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	22	0	1	14	3	18	2
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	34	3	1	0	0	2	1	0
Two Speed Idle (TSI)	Enhanced	Test and Repair	18,996	1,160	118	61	758	238	929	103
Two Speed Idle (TSI)	Enhanced	Test Only	44,935	3,625	422	138	2,324	877	2,826	339
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	49	11	1	3	4	4	6	4
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	41	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	310	27	6	0	14	8	22	2
Two Speed Idle (TSI)	Partial	Test and Repair	2,097	176	27	11	100	49	131	25
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	39	4	0	0	2	1	2	1
Two Speed Idle (TSI)	Partial	Test Only	1,196	106	16	6	63	34	76	11
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	397	45	8	4	20	13	33	12

	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 COO Area	1,040	120	23	6	54	50	90	21
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	398	44	4	1	28	11	34	3
Two Speed Idle (TSI)	Unknown Program	Referee	6	6	2	3	1	2	4	5
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,139	415	47	31	243	104	329	61
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	447	18	2	0	14	2	16	0
Two Speed Idle (TSI)	Unknown Program	Test Only	3,595	241	36	13	148	70	180	27
UnKnown TestType	Basic	Gold Shield in Basic Area	268	26	0	3	16	29	16	11
UnKnown TestType	Basic	Gold Shield in COO Area	13	1	0	0	0	1	0	1
UnKnown TestType	Basic	Gold Shield in Enhanced Area	72	9	0	4	4	9	4	5
UnKnown TestType	Basic	Government Fleet	0	0	0	0	0	4	0	0
UnKnown TestType	Basic	Referee	7	4	0	2	0	4	0	4
UnKnown TestType	Basic	Test and Repair	1,888	117	0	17	88	125	88	30
UnKnown TestType	Basic	Test and Repair Dealer	382	15	0	0	13	16	13	3
UnKnown TestType	Basic	Test Only	338	20	0	1	17	20	17	4
UnKnown TestType	Change of Ownership	Gold Shield in Basic Area	4	2	0	0	1	2	1	1
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	71	8	0	1	8	9	8	2
UnKnown TestType	Change of Ownership	Test and Repair	61	3	0	1	2	3	2	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	38	0	0	0	0	1	0	0
UnKnown TestType	Enhanced	Gold Shield in COO Area	29	5	0	1	5	5	5	1
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	865	56	0	6	43	62	43	19
UnKnown TestType	Enhanced	Government Fleet	0	0	0	0	0	48	0	0
UnKnown TestType	Enhanced	Referee	6	11	0	6	0	11	0	7
UnKnown TestType	Enhanced	Test and Repair	3,288	156	0	28	106	185	106	56
UnKnown TestType	Enhanced	Test and Repair Dealer	32	1	0	0	1	2	1	0
UnKnown TestType	Enhanced	Test Only	5,437	341	0	58	260	366	260	91
UnKnown TestType	Partial	Gold Shield in Enhanced Area	160	10	0	0	7	11	7	4
UnKnown TestType	Partial	Test and Repair	956	52	0	11	38	58	38	18
UnKnown TestType	Partial	Test and Repair Dealer	14	2	0	1	1	2	1	1
UnKnown TestType	Partial	Test Only	410	19	0	7	13	21	13	9

	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 Basic Area	16	2	0	0	1	2	1	1
UnKnown TestType	Unknown Program	Gold Shield in COO Area	60	2	0	1	1	3	1	1
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	58	4	0	1	2	8	2	2
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	14	0	0
UnKnown TestType	Unknown Program	Referee	21	7	0	5	0	7	0	5
UnKnown TestType	Unknown Program	Test and Repair	496	19	0	2	13	36	13	6
UnKnown TestType	Unknown Program	Test and Repair Dealer	12	1	0	1	0	2	0	1
UnKnown TestType	Unknown Program	Test Only	367	13	0	1	11	30	11	2