

Executive Summary Report

SMOG CHECK Statewide

December 2010

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	797,798	95,857	12.02%
Total	915,887	123,540	13.49%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	690,073	86.50%	107,725	13.50%
Total	776,109	84.74%	139,778	15.26%

3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	432,028	86.29%	68,623	13.71%
Total	489,051	85.27%	84,474	14.73%

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,047	1.38%
All Emissions	47,509	5.96%
All Visual	10,933	1.37%
All Functional	61,322	7.69%
OBDII	41,456	5.20%
Overall	95,857	12.02%

5. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	275,031	247,170
Directed Vehicles	225,620	184,858
Total	500,651	432,028

6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	47,609	40,514
Directed Vehicles	19,078	14,460
Total	66,687	54,974

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,587	271	531	26	0	4,415
Test Only	2,403	40	24	1	0	2,468
Basic Area Dealer	0	1	103	0	0	104
Gold Shield	479	27	48	78	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	6,786	349	753	108	0	7,996

8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	638,429	78,660	12.32%	8,797	1.38%
Partially Enhanced	40,059	5,558	13.87%	672	1.68%
Basic	74,324	7,396	9.95%	1,001	1.35%
Change of Ownership	4,855	608	12.52%	127	2.62%
No Program	4	1	25.00%	0	0.00%
Unknown Program	40,127	3,634	9.06%	450	1.12%
Total Program Area	797,798	95,857	12.02%	11,047	1.38%

9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	500,651	66,484	13.28%	7,968	1.59%
Regular	222,770	18,347	8.24%	1,768	0.79%
Basic Area Dealer	5,035	237	4.71%	14	0.28%
Gold Shield in Enhanced Area	52,333	8,501	16.24%	955	1.82%
Gold Shield in Basic Area	9,941	1,373	13.81%	214	2.15%
Gold Shield in COO Area	4,413	528	11.96%	90	2.04%
Business Fleet	7	2	28.57%	0	0.00%
Permanent Fleet Registered	38	3	7.89%	1	2.63%
Referee	332	161	48.49%	20	6.02%
Government Fleet	2,275	220	9.67%	17	0.75%
Unknown Privilege	3	1	33.33%	0	0.00%
Total	797,798	95,857	12.02%	11,047	1.38%

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	1	100.00%	100.00%	0.00%	0.00%	100.00%	0.00%
MY-1970	1	1	100.00%	100.00%	0.00%	100.00%	100.00%	0.00%
MY-1976	868	237	27.30%	19.82%	8.99%	14.63%	6.91%	0.00%
MY-1977	1,163	329	28.29%	19.95%	7.91%	15.65%	6.96%	0.00%
MY-1978	1,361	380	27.92%	19.54%	8.74%	14.33%	7.79%	0.00%
MY-1979	1,547	416	26.89%	19.78%	7.50%	14.03%	7.56%	0.00%
MY-1980	943	266	28.21%	19.72%	9.54%	17.07%	9.33%	0.00%
MY-1981	1,038	311	29.96%	22.74%	9.83%	14.45%	6.84%	0.00%
MY-1982	1,272	369	29.01%	21.93%	6.84%	14.39%	7.31%	0.00%
MY-1983	1,501	417	27.78%	22.05%	8.93%	12.26%	6.46%	0.00%
MY-1984	2,891	922	31.89%	26.67%	10.97%	15.01%	7.71%	0.00%
MY-1985	3,880	1,259	32.45%	27.01%	10.26%	15.05%	6.75%	0.00%
MY-1986	5,487	1,554	28.32%	22.11%	8.64%	13.50%	5.74%	0.00%
MY-1987	7,347	2,178	29.64%	23.44%	7.57%	13.65%	5.32%	0.00%
MY-1988	7,815	2,246	28.74%	23.35%	7.63%	13.45%	4.71%	0.00%
MY-1989	11,103	2,886	25.99%	20.45%	5.82%	12.01%	4.13%	0.00%
MY-1990	13,942	3,641	26.12%	20.82%	5.69%	11.83%	3.54%	0.00%
MY-1991	16,814	4,128	24.55%	19.32%	5.01%	11.15%	2.97%	0.00%
MY-1992	16,582	4,152	25.04%	19.84%	4.69%	10.28%	2.98%	0.00%
MY-1993	20,426	5,310	26.00%	21.47%	4.44%	9.75%	3.09%	0.00%
MY-1994	25,935	5,669	21.86%	16.88%	3.13%	8.54%	2.70%	0.00%
MY-1995	30,862	6,387	20.70%	16.08%	2.73%	7.92%	2.39%	0.00%
MY-1996	32,050	5,605	17.49%	7.81%	1.20%	11.54%	1.81%	10.74%
MY-1997	37,540	5,813	15.48%	6.33%	1.05%	10.84%	1.51%	10.16%
MY-1998	47,592	6,087	12.79%	4.60%	0.77%	9.41%	1.19%	8.86%
MY-1999	50,428	5,053	10.02%	2.91%	0.52%	7.82%	1.01%	7.52%
MY-2000	68,928	6,851	9.94%	2.24%	0.45%	8.23%	0.91%	7.98%
MY-2001	63,917	6,035	9.44%	1.37%	0.26%	8.52%	0.63%	8.37%
MY-2002	77,796	6,743	8.67%	1.09%	0.23%	7.86%	0.67%	7.76%
MY-2003	64,146	3,557	5.55%	0.86%	0.13%	4.95%	0.45%	4.88%
MY-2004	84,576	4,426	5.23%	0.55%	0.11%	4.72%	0.40%	4.63%
MY-2005	51,488	1,620	3.15%	0.52%	0.03%	2.76%	0.31%	2.71%
MY-2006	16,516	493	2.98%	0.88%	0.05%	2.57%	0.29%	2.53%
MY-2007	14,771	301	2.04%	0.60%	0.03%	1.84%	0.16%	1.79%
MY-2008	7,020	109	1.55%	1.68%	0.03%	1.44%	0.09%	1.38%
MY-2009	3,380	49	1.45%	1.12%	0.00%	1.39%	0.03%	1.30%
MY-2010	4,188	52	1.24%	0.33%	0.02%	0.98%	0.19%	0.88%
MY-2011	683	4	0.59%	0.29%	0.00%	0.44%	0.00%	0.44%
All Model Years	797,798	95,857	12.02%	5.96%	1.38%	7.69%	1.37%	5.20%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	339
Certificate of Non Compliance	2
Parts Cost	205
Hardship Extensions	0
Exempt Vehicle	30
Exempted by Directive	8
Parts Exemption	16
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	600

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	922
Stations Locked-Out at Least Once	282
Stations Conducted at Least One Test	7,074

13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,957	5,857
EA	Gas Endorsement	9	0
EB	Both Endorsement	48	0
EB	Gas Endorsement	470	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	423,369	47.69	64,884	48.55	488,253	47.80
Test and Repair	138,092	47.62	75,895	46.98	213,987	47.39
Test and Repair Dealer	26	77.88	4,584	54.00	4,610	54.13
Referee	144	30.00	51	30.00	195	30.00
Gold Shield in Enhanced Area	43,564	47.93	7,358	50.14	50,922	48.25
Gold Shield in Basic Area	346	63.43	9,186	41.46	9,532	42.26
Gold Shield in COO Area	506	54.45	3,640	54.69	4,146	54.66

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	4,315	22.98	16,821	246.93
	\$51-150	4,114	101.06		
	\$151-250	2,619	199.41		
	\$251-450	3,250	337.40		
	Over \$450	2,523	800.62		
CAP Repairs	\$1-50	84	23.23	4,547	427.02
	\$51-150	161	104.71		
	\$151-250	342	206.24		
	\$251-450	1,360	359.87		
	Over \$450	2,600	524.18		
Total Repairs	\$1-50	3,292	23.49	17,855	341.38
	\$51-150	2,937	101.02		
	\$151-250	2,371	202.02		
	\$251-450	4,035	343.96		
	Over \$450	5,220	738.40		

16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	4,245	427.02

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	37	6	0	1	2	2	4	2
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	175	23	3	0	6	12	10	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)	Basic	Test Only	221	47	7	0	21	24	31	6
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	0	1	1	0	0	1	0	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	22	3	0	1	1	1	2	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test Only	27	8	1	1	2	5	4	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	220	42	9	3	12	27	22	9
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	356	71	3	1	37	31	47	5
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	31,486	6,773	739	339	2,976	3,264	4,376	889
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	96	4	4	45	40	59	5
Acceleration Simulation Mode (ASM)	Enhanced	Referee	71	104	14	37	24	52	58	56
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	96,756	8,291	610	441	5,021	2,774	6,171	870
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	343,687	57,319	6,861	2,796	21,617	31,721	34,103	6,171
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	46	17	3	1	10	5	12	2
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	50	9	0	0	6	3	6	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,495	562	65	19	231	282	363	48
Acceleration Simulation Mode (ASM)	Partial	Referee	4	10	0	7	2	6	5	7
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	16,022	2,672	304	147	1,030	1,438	1,588	312
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,857	1,890	261	106	698	1,018	1,152	246
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,262	251	37	16	126	118	184	42
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	62	7	0	18	44	20	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	14	7	1	4	1	4	3	4

	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	10,656	849	91	43	453	357	589	90
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,565	1,617	210	112	688	856	1,010	224
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	2	1	0	0	1	1	1	0
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	6,947	1,152	187	79	489	367	771	215
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	150	15	2	1	7	7	10	1
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	919	196	21	6	97	57	151	19
Two Speed Idle (TSI)	Basic	Government Fleet	0	11	1	0	9	2	11	2
Two Speed Idle (TSI)	Basic	Referee	9	18	4	8	1	7	9	13
Two Speed Idle (TSI)	Basic	Test and Repair	42,065	4,422	576	228	2,041	1,298	3,316	539
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,270	176	12	4	98	44	140	17
Two Speed Idle (TSI)	Basic	Test Only	8,346	1,128	188	58	489	388	802	162
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	59	8	4	1	0	6	3	2
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,615	272	56	16	94	127	178	32
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	95	19	7	1	6	8	15	2
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,390	163	36	7	71	55	127	20
Two Speed Idle (TSI)	Change of Ownership	Test Only	779	124	22	13	42	48	90	25
Two Speed Idle (TSI)	Enhanced	Business-Fleet	1	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	361	48	4	6	26	9	40	7
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	457	33	7	2	18	11	24	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,806	553	72	31	359	123	441	65
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	35	5	0	14	14	22	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	18	3	1	0	1	2	1	1
Two Speed Idle (TSI)	Enhanced	Referee	17	5	0	0	3	1	4	0
Two Speed Idle (TSI)	Enhanced	Test and Repair	18,015	1,057	82	51	761	174	892	95
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	456	26	1	0	22	3	23	0
Two Speed Idle (TSI)	Enhanced	Test Only	47,012	3,680	385	155	2,503	805	2,926	318
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	28	3	0	1	0	2	0	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
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	261	32	5	1	20	12	22	1
Two Speed Idle (TSI)	Partial	Test and Repair	2,077	168	20	6	93	50	124	18
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	62	2	0	0	1	1	1	0
Two Speed Idle (TSI)	Partial	Test Only	1,159	107	14	9	66	25	82	15
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	361	62	7	7	27	16	40	14
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	799	113	22	16	39	40	82	22
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	349	32	9	1	19	9	24	3
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	3	0	0	1	2	1	0
Two Speed Idle (TSI)	Unknown Program	Test and Repair	4,486	343	46	19	189	89	266	44
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	422	19	1	3	13	3	15	3
Two Speed Idle (TSI)	Unknown Program	Test Only	3,182	208	19	15	133	47	170	24
UnKnown TestType	Basic	Gold Shield in Basic Area	302	30	0	3	20	40	20	11
UnKnown TestType	Basic	Gold Shield in COO Area	14	1	0	1	0	1	0	1
UnKnown TestType	Basic	Gold Shield in Enhanced Area	63	5	0	0	5	5	5	0
UnKnown TestType	Basic	Government Fleet	0	1	0	0	1	12	1	0
UnKnown TestType	Basic	Referee	1	2	0	2	1	2	1	2
UnKnown TestType	Basic	Test and Repair	1,951	123	0	7	106	168	106	25
UnKnown TestType	Basic	Test and Repair Dealer	318	13	0	3	9	19	9	4
UnKnown TestType	Basic	Test Only	296	23	0	7	15	25	15	10
UnKnown TestType	Change of Ownership	Gold Shield in COO Area	88	7	0	1	5	7	5	3
UnKnown TestType	Change of Ownership	Test and Repair	50	2	0	1	0	2	0	2
UnKnown TestType	Change of Ownership	Test Only	19	1	0	1	0	1	0	1
UnKnown TestType	Enhanced	Gold Shield in Basic Area	34	5	0	1	4	5	4	1
UnKnown TestType	Enhanced	Gold Shield in COO Area	49	1	0	0	1	15	1	0
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	859	59	0	6	46	107	46	15
UnKnown TestType	Enhanced	Government Fleet	0	7	0	0	7	109	7	0
UnKnown TestType	Enhanced	Referee	10	2	0	1	0	2	0	2
UnKnown TestType	Enhanced	Test and Repair	3,114	155	0	14	116	320	116	45
UnKnown TestType	Enhanced	Test and Repair Dealer	42	1	0	0	1	2	1	0

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UnKnown TestType	Enhanced	Test Only	5,113	292	0	46	228	381	228	77
UnKnown TestType	Partial	Gold Shield in Basic Area	6	1	0	0	1	1	1	0
UnKnown TestType	Partial	Gold Shield in COO Area	9	2	0	0	2	2	2	0
UnKnown TestType	Partial	Gold Shield in Enhanced Area	145	10	0	3	5	12	5	6
UnKnown TestType	Partial	Referee	1	2	0	2	1	2	1	2
UnKnown TestType	Partial	Test and Repair	942	52	0	11	33	70	33	21
UnKnown TestType	Partial	Test Only	389	16	0	3	14	18	14	3
UnKnown TestType	Unknown Program	Gold Shield in Basic Area	16	2	0	1	1	2	1	1
UnKnown TestType	Unknown Program	Gold Shield in COO Area	77	1	0	1	0	5	0	1
UnKnown TestType	Unknown Program	Gold Shield in Enhanced Area	58	3	0	0	2	16	2	1
UnKnown TestType	Unknown Program	Government Fleet	0	3	0	0	3	59	3	0
UnKnown TestType	Unknown Program	Referee	16	7	0	7	0	7	0	7
UnKnown TestType	Unknown Program	Test and Repair	492	24	0	3	21	81	21	4
UnKnown TestType	Unknown Program	Test and Repair Dealer	18	0	0	0	0	4	0	0
UnKnown TestType	Unknown Program	Test Only	374	23	0	0	21	68	21	2