

Executive Summary Report

SMOG CHECK Statewide

January 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	974,018	121,116	12.43%
Total	1,105,578	151,381	13.69%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	841,743	86.42%	132,275	13.58%
Total	938,794	84.91%	166,784	15.09%

3. Certification Volume by Station Type*

Station Types	Certificates Issued on Initial Test	Percent (%) Certificates Issued	No Certificates Issued on Initial Test	Percent (%) No Certificates Issued
STAR Test Only	337,218	84.34%	62,610	15.66%
Non-STAR Test Only	156,916	87.81%	21,781	12.19%
STAR Test and Repair	104,866	84.40%	19,377	15.60%
Non-STAR Test and Repair	237,322	90.69%	24,365	9.31%
Total	836,322	85.86%	137,696	14.14%

*Note: Excludes Basic area dealer, Fleets, and Referee stations

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	11,087	1.14%
All Emissions	52,098	5.35%
All Visual	20,983	2.15%
All Functional	79,284	8.14%
OBDII	53,961	5.54%
Overall	121,116	12.43%

5. Initial Tests at All Test-Only Stations

Vehicles	STAR Station Initial Tests	Non-STAR Station Initial Tests	STAR Station Certificates Issued	Non-STAR Station Certificates Issued
Directed	190,810	24,260	146,103	17,369
Non-Directed	209,018	154,437	191,115	139,547
Total	399,828	178,697	337,218	156,916

6. Initial Tests at All Test and Repair Stations

Vehicles	STAR Station Initial Tests	Non-STAR Station Initial Tests	STAR Station Certificates Issued	Non-STAR Station Certificates Issued
Directed	46,640	4,859	35,292	2,381
Non-Directed	77,603	256,828	69,574	234,941
Total	124,243	261,687	104,866	237,322

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	777,899	101,990	13.11%	9,081	1.17%
Partially Enhanced	50,457	6,316	12.52%	566	1.12%
Basic	90,649	7,954	8.77%	871	0.96%
Change of Ownership	5,572	760	13.64%	136	2.44%
No Program	9	1	11.11%	0	0.00%
Unknown Program	49,432	4,095	8.28%	433	0.88%
Total Program Area	974,018	121,116	12.43%	11,087	1.14%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	399,828	61,649	15.42%	5,715	1.43%
Non-STAR Test Only	178,697	20,495	11.47%	1,929	1.08%
STAR Test and Repair	124,243	18,329	14.75%	1,644	1.32%
Non-STAR Test and Repair	261,687	19,950	7.62%	1,729	0.66%
Basic Area Dealer	5,363	185	3.45%	16	0.30%
Business Fleet	0	0	0.00%		0.00%
Permanent Fleet Registered	44	3	6.82%	0	0.00%
Referee	486	210	43.21%	25	5.14%
Government Fleet	3,670	295	8.04%	29	0.79%
Unknown Privilege	0	0	0.00%		0.00%
Total	974,018	121,116	12.43%	11,087	1.14%

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
STAR Regular Test and Repair CAP Enhanced	945	44	14	0	0	1,003
STAR Regular Test and Repair CAP Basic	0	0	57	0	0	57
STAR Regular Test and Repair COO	7	0	0	52	0	59
STAR Test Only	1,441	18	13	0	0	1,472
Non-STAR Regular Test and Repair	3,037	277	530	55	0	3,899
Non-STAR Test Only	1,154	31	14	0	0	1,199
Repair Only	27	0	2	0	0	29
Basic Area Dealer	1	0	93	0	0	94
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	29	1	4	0	0	34
Referee	36	0	6	1	0	43
Government Fleet	248	9	37	2	0	296
Unknown Type	2	0	0	0	0	2
Total	6,930	380	770	110	0	8,190

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	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	694	239	34.44%	21.04%	9.94%	21.04%	11.82%	0.00%
MY-1977	991	351	35.42%	20.99%	6.76%	22.30%	12.82%	0.00%
MY-1978	1,093	368	33.67%	19.85%	9.15%	20.77%	10.43%	0.00%
MY-1979	1,273	446	35.04%	23.02%	8.56%	21.21%	12.33%	0.00%
MY-1980	763	257	33.68%	21.23%	10.22%	21.23%	13.50%	0.00%
MY-1981	778	296	38.05%	27.63%	10.41%	22.37%	13.88%	0.00%
MY-1982	939	331	35.25%	26.20%	9.27%	18.00%	12.03%	0.00%
MY-1983	1,172	435	37.12%	27.22%	10.58%	19.20%	11.86%	0.00%
MY-1984	2,239	849	37.92%	27.07%	10.18%	19.74%	11.03%	0.00%
MY-1985	3,161	1,213	38.37%	27.62%	10.28%	21.96%	11.04%	0.00%
MY-1986	4,173	1,498	35.90%	25.52%	8.77%	19.24%	10.14%	0.00%
MY-1987	5,170	1,834	35.47%	25.47%	7.76%	18.41%	9.17%	0.00%
MY-1988	6,181	2,136	34.56%	25.17%	8.22%	17.83%	8.56%	0.00%
MY-1989	8,658	2,813	32.49%	22.78%	6.39%	17.27%	6.70%	0.00%
MY-1990	10,877	3,520	32.36%	22.88%	5.78%	16.72%	6.38%	0.00%
MY-1991	13,291	4,273	32.15%	23.02%	5.68%	16.09%	6.00%	0.00%
MY-1992	14,071	4,386	31.17%	22.46%	5.23%	14.63%	6.01%	0.00%
MY-1993	16,891	5,577	33.02%	24.88%	4.83%	15.08%	5.86%	0.00%
MY-1994	22,142	6,607	29.84%	21.04%	3.71%	13.54%	5.50%	0.00%
MY-1995	30,256	8,204	27.12%	19.20%	3.16%	11.59%	4.85%	0.00%
MY-1996	25,749	6,277	24.38%	12.29%	1.74%	14.57%	4.12%	12.51%
MY-1997	41,339	8,257	19.97%	9.31%	1.36%	12.14%	3.07%	10.57%
MY-1998	40,049	7,215	18.02%	7.27%	1.18%	11.82%	2.94%	10.68%
MY-1999	61,686	7,902	12.81%	4.05%	0.65%	9.03%	2.19%	8.17%
MY-2000	53,111	7,288	13.72%	3.56%	0.74%	10.38%	2.34%	9.80%
MY-2001	88,060	10,088	11.46%	1.69%	0.29%	9.72%	1.56%	9.46%
MY-2002	54,259	6,610	12.18%	1.82%	0.42%	10.28%	1.90%	10.07%
MY-2003	99,372	7,314	7.36%	1.02%	0.21%	6.15%	1.07%	6.00%
MY-2004	53,563	3,955	7.38%	0.93%	0.20%	6.29%	1.00%	6.17%
MY-2005	104,478	4,435	4.24%	0.46%	0.09%	3.54%	0.60%	3.49%
MY-2006	53,438	2,695	5.04%	0.69%	0.10%	4.24%	0.61%	4.20%
MY-2007	104,811	2,627	2.51%	0.21%	0.03%	2.15%	0.28%	2.11%
MY-2008	15,279	312	2.04%	0.56%	0.07%	1.64%	0.25%	1.60%
MY-2009	12,386	240	1.94%	0.23%	0.02%	1.79%	0.09%	1.74%

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-2010	6,184	92	1.49%	0.24%	0.02%	1.28%	0.11%	1.28%
MY-2011	7,547	84	1.11%	0.21%	0.01%	1.03%	0.04%	0.98%
MY-2012	6,594	73	1.11%	0.21%	0.02%	0.85%	0.20%	0.80%
MY-2013	1,298	19	1.46%	0.15%	0.00%	1.31%	0.15%	1.31%
MY-2014	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	974,018	121,116	12.43%	5.35%	1.14%	8.14%	2.15%	5.54%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	505
Certificate of Non Compliance	0
Parts Cost	90
Hardship Extensions	1
Exempt Vehicle	38
Exempted by Directive	3
Parts Exemption	9
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	646

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,205
Stations Locked-Out at Least Once	996
Stations Conducted at Least One Test	6,985

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	7,411	4,505
EB (Test and Repair Basic)	342	0
EI (Repair Only)	1	0
EO (Test and Repair)	2,761	1,702
EO (Test Only)	287	0

14. Inspection Costs

Station Type	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
STAR Test and Repair	94,452	46.01	26,918	45.47	121,370	45.89
STAR Test Only	338,550	48.12	52,073	49.36	390,623	48.28
Non-STAR Test and Repair	154,876	47.97	96,028	46.27	250,904	47.32
Non-STAR Test Only	141,015	45.31	31,735	45.28	172,750	45.30
Test and Repair Dealer	10	76.10	4,988	53.97	4,998	54.01
Total	728,903	47.27	211,742	46.96	940,645	47.20

15. Repair Costs

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
STAR Repairs (Test and Repair, Non-CAP)	\$1-50	1,794	24.39	7,408	297.72
	\$51-150	1,362	99.35		
	\$151-250	1,043	203.34		
	\$251-450	1,594	343.97		
	Over \$450	1,615	783.93		
Non-STAR Repairs (Test and Repair)	\$1-50	1,935	23.80	8,389	283.73
	\$51-150	1,919	101.23		
	\$151-250	1,333	201.95		
	\$251-450	1,720	339.18		
	Over \$450	1,482	868.62		
Repair Only	\$1-50	0	0.00	0	0.00
	\$51-150	0	0.00		
	\$151-250	0	0.00		
	\$251-450	0	0.00		
	Over \$450	0	0.00		
CAP Repairs	\$1-50	47	23.68	618	346.98
	\$51-150	74	98.81		
	\$151-250	85	202.21		
	\$251-450	181	353.23		
	Over \$450	231	540.63		
Total Repairs	\$1-50	3,776	24.08	16,415	292.42

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	\$51-150	3,355	100.41		
	\$151-250	2,461	202.54		
	\$251-450	3,495	342.09		
	Over \$450	3,328	804.76		

16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	698	328.22

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	Non-STAR Test and Repair	59	5	0	0	0	5	0	0
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	23	5	1	0	1	3	2	0
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	12	5	1	0	1	3	3	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	28	8	1	0	2	5	4	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test and Repair	8	4	0	0	2	1	3	0
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	76	3	0	52	19	55	2
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	110,008	8,990	655	782	5,194	3,007	6,526	1,462
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	111,589	15,699	1,480	1,532	7,346	6,551	10,791	2,883
Acceleration Simulation Mode (ASM)	Enhanced	Referee	139	132	19	59	29	66	73	76
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	71,513	14,376	1,223	1,311	5,770	6,605	8,999	2,684
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test Only	269,693	54,739	5,089	4,367	21,250	26,555	33,518	9,417
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	19,369	2,722	235	164	1,127	1,371	1,645	313
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	6,440	1,110	121	99	466	518	708	182
Acceleration Simulation Mode (ASM)	Partial	Referee	5	13	1	5	3	3	8	7
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	4,236	820	68	59	342	375	504	132
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	6,544	1,109	107	97	464	523	659	191

	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	193	23	1	33	148	51	3
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	11,640	777	69	67	418	289	553	130
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	6,126	846	76	101	387	391	553	185
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	24	8	1	4	1	5	5	5
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	2,664	325	46	33	173	137	224	60
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	7,705	1,054	124	118	510	465	680	207
Two Speed Idle (TSI)	Basic	Basic Area Dealer	3,773	154	13	6	80	45	109	11
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	54,163	4,986	543	299	2,506	1,299	3,747	688
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	6,609	825	91	79	385	227	583	158
Two Speed Idle (TSI)	Basic	Referee	14	23	2	9	3	5	13	11
Two Speed Idle (TSI)	Basic	STAR Test and Repair	8,948	1,209	144	79	569	320	889	224
Two Speed Idle (TSI)	Basic	STAR Test Only	4,511	591	75	59	291	165	416	113
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,305	331	55	24	144	124	229	54
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	501	87	16	10	34	28	63	18
Two Speed Idle (TSI)	Change of Ownership	Referee	1	2	2	0	0	2	0	2
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,261	218	49	20	74	89	160	42
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	431	104	14	12	38	31	78	23
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	404	14	1	1	9	1	13	1
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	10	2	0	6	3	7	0
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	24,003	1,231	106	79	858	227	1,007	153
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	19,689	1,550	125	134	1,017	282	1,220	245
Two Speed Idle (TSI)	Enhanced	Referee	31	14	0	6	8	2	10	7
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	11,551	1,030	92	98	620	201	779	195
Two Speed Idle (TSI)	Enhanced	STAR Test Only	40,094	3,564	286	280	2,370	607	2,808	572
Two Speed Idle (TSI)	Partial	Basic Area Dealer	42	2	2	0	0	2	0	0
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,804	231	21	7	157	45	182	20
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	753	77	5	8	50	15	57	13

	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	STAR Test and Repair	649	69	4	5	45	12	56	11
Two Speed Idle (TSI)	Partial	STAR Test Only	990	80	2	8	48	8	63	19
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	494	9	0	1	6	1	7	1
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	9	1	0	8	1	8	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	5,558	381	45	36	226	88	311	59
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	1,887	135	14	17	90	30	104	27
Two Speed Idle (TSI)	Unknown Program	Referee	7	5	0	4	1	1	2	4
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	1,743	143	17	15	79	34	111	30
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	2,453	146	17	16	87	36	105	21
Unknown TestType	Basic	Basic Area Dealer	295	5	0	0	4	5	4	1
Unknown TestType	Basic	Government Fleet	0	0	0	0	0	4	0	0
Unknown TestType	Basic	Non-STAR Test and Repair	2,358	85	0	12	59	99	59	26
Unknown TestType	Basic	Non-STAR Test Only	242	14	0	1	9	14	9	5
Unknown TestType	Basic	Referee	3	1	0	1	1	1	1	1
Unknown TestType	Basic	STAR Test and Repair	391	22	0	4	16	23	16	8
Unknown TestType	Basic	STAR Test Only	198	12	0	7	5	12	5	8
Unknown TestType	Change of Ownership	Non-STAR Test and Repair	106	6	0	2	3	6	3	3
Unknown TestType	Change of Ownership	Non-STAR Test Only	16	1	0	0	1	1	1	0
Unknown TestType	Change of Ownership	STAR Test and Repair	79	4	0	0	4	5	4	0
Unknown TestType	Change of Ownership	STAR Test Only	15	1	0	0	1	1	1	0
Unknown TestType	Enhanced	Basic Area Dealer	28	0	0	0	0	1	0	0
Unknown TestType	Enhanced	Government Fleet	0	1	0	0	1	55	1	0
Unknown TestType	Enhanced	Non-STAR Test and Repair	3,389	142	0	24	98	207	98	52
Unknown TestType	Enhanced	Non-STAR Test Only	2,556	131	0	21	86	137	86	50
Unknown TestType	Enhanced	Referee	20	3	0	3	1	3	2	3
Unknown TestType	Enhanced	STAR Test and Repair	1,383	77	0	7	61	98	61	20
Unknown TestType	Enhanced	STAR Test Only	3,977	210	0	42	145	224	145	74
Unknown TestType	Partial	Non-STAR Test and Repair	990	33	0	8	20	39	20	14
Unknown TestType	Partial	Non-STAR Test Only	235	12	0	3	7	12	7	5

	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	Referee	1	2	0	2	1	2	1	2
UnKnown TestType	Partial	STAR Test and Repair	232	16	0	3	10	16	10	6
UnKnown TestType	Partial	STAR Test Only	290	19	0	5	7	19	7	13
UnKnown TestType	Unknown Program	Basic Area Dealer	27	0	0	0	0	1	0	0
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	22	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	560	26	0	3	18	55	18	8
UnKnown TestType	Unknown Program	Non-STAR Test Only	244	3	0	1	1	11	1	2
UnKnown TestType	Unknown Program	Referee	20	7	0	4	1	7	1	5
UnKnown TestType	Unknown Program	STAR Test and Repair	197	14	0	5	5	22	5	9
UnKnown TestType	Unknown Program	STAR Test Only	284	12	0	3	6	20	6	6