

Executive Summary Report

SMOG CHECK Statewide

May 2013

1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	1,024,503	122,706	11.98%
Total	1,168,801	156,693	13.41%

2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	891,949	87.06%	132,554	12.94%
Total	998,699	85.45%	170,102	14.55%

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	431,509	85.61%	72,512	14.39%
Non-STAR Test Only	68,275	89.73%	7,815	10.27%
STAR Test and Repair	176,570	86.23%	28,196	13.77%
Non-STAR Test and Repair	207,154	91.53%	19,168	8.47%
Total	883,508	86.24%	140,995	13.76%

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

4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,687	1.24%
All Emissions	56,317	5.50%
All Visual	22,046	2.15%
All Functional	77,573	7.57%
OBDII	51,168	4.99%
Overall	122,706	11.98%

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	222,502	952	173,536	184
Non-Directed	281,519	75,138	257,973	68,091
Total	504,021	76,090	431,509	68,275

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	68,839	2,068	53,170	520
Non-Directed	135,927	224,254	123,400	206,634
Total	204,766	226,322	176,570	207,154

7. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	820,024	103,027	12.56%	10,424	1.27%
Partially Enhanced	53,211	6,400	12.03%	616	1.16%
Basic	93,019	7,954	8.55%	940	1.01%
Change of Ownership	6,442	882	13.69%	165	2.56%
No Program	7	0	0.00%	0	0.00%
Unknown Program	51,800	4,443	8.58%	542	1.05%
Total Program Area	1,024,503	122,706	11.98%	12,687	1.24%

8. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
STAR Test Only	504,021	71,339	14.15%	7,593	1.51%
Non-STAR Test Only	76,090	7,248	9.53%	678	0.89%
STAR Test and Repair	204,766	26,898	13.14%	2,660	1.30%
Non-STAR Test and Repair	226,322	15,886	7.02%	1,597	0.71%
Basic Area Dealer	5,207	177	3.40%	8	0.15%
Business Fleet	2	0	0.00%	0	0.00%
Permanent Fleet Registered	37	0	0.00%	0	0.00%
Referee	450	206	45.78%	25	5.56%
Government Fleet	3,755	320	8.52%	33	0.88%
Unknown Privilege	3,853	632	16.40%	93	2.41%
Total	1,024,503	122,706	11.98%	12,687	1.24%

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	1,508	64	48	1	0	1,621
STAR Regular Test and Repair CAP Basic	0	0	60	0	0	60
STAR Regular Test and Repair COO	25	3	4	59	0	91
STAR Test Only	1,645	25	14	0	0	1,684
Non-STAR Regular Test and Repair	2,544	256	497	46	0	3,343
Non-STAR Test Only	905	23	14	0	0	942
Repair Only	56	0	3	0	0	59
Basic Area Dealer	0	0	85	0	0	85
Business Fleet	3	0	0	0	0	3
Permanent Fleet Registered	28	1	4	0	0	33
Referee	36	0	6	1	0	43
Government Fleet	248	9	37	2	0	296
Unknown Type	12	0	0	0	0	12
Total	7,010	381	772	109	0	8,272

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-1933	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1964	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1965	2	1	50.00%	50.00%	0.00%	0.00%	50.00%	0.00%
MY-1971	1	1	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%
MY-1976	964	325	33.71%	21.99%	7.47%	20.54%	10.06%	0.00%
MY-1977	1,162	410	35.28%	21.17%	8.00%	20.65%	11.79%	0.00%
MY-1978	1,407	470	33.40%	20.26%	7.04%	21.18%	11.73%	0.00%
MY-1979	1,305	451	34.56%	24.83%	9.73%	19.62%	10.96%	0.00%
MY-1980	853	291	34.11%	23.68%	10.90%	17.70%	11.72%	0.00%
MY-1981	991	344	34.71%	25.73%	10.70%	18.37%	12.21%	0.00%
MY-1982	1,127	391	34.69%	25.47%	11.27%	18.63%	11.27%	0.00%
MY-1983	1,503	568	37.79%	28.81%	10.31%	21.09%	11.98%	0.00%
MY-1984	2,676	1,012	37.82%	29.56%	12.03%	18.98%	10.80%	0.00%
MY-1985	3,694	1,371	37.11%	28.15%	10.86%	19.17%	11.07%	0.00%
MY-1986	4,892	1,695	34.65%	25.00%	9.26%	18.58%	10.02%	0.00%
MY-1987	5,737	2,006	34.97%	25.80%	8.82%	18.02%	8.31%	0.00%
MY-1988	6,986	2,310	33.07%	23.76%	7.62%	16.59%	7.40%	0.00%
MY-1989	9,458	3,000	31.72%	22.99%	6.61%	16.31%	7.18%	0.00%
MY-1990	11,928	3,716	31.15%	22.59%	6.41%	15.61%	6.33%	0.00%
MY-1991	14,326	4,498	31.40%	22.78%	6.24%	15.22%	6.04%	0.00%
MY-1992	15,112	4,588	30.36%	22.16%	5.72%	14.17%	5.54%	0.00%
MY-1993	18,224	5,979	32.81%	25.10%	5.35%	14.38%	5.76%	0.00%
MY-1994	22,031	6,634	30.11%	22.16%	4.39%	13.31%	5.57%	0.00%
MY-1995	32,630	8,654	26.52%	19.19%	3.40%	11.04%	4.60%	0.00%
MY-1996	25,243	6,314	25.01%	13.46%	1.92%	14.55%	4.31%	12.58%
MY-1997	45,860	8,592	18.74%	9.24%	1.34%	11.13%	3.07%	9.60%
MY-1998	40,106	7,088	17.67%	7.45%	1.19%	11.36%	3.01%	10.15%
MY-1999	68,841	8,440	12.26%	3.97%	0.61%	8.50%	2.26%	7.72%
MY-2000	48,004	6,482	13.50%	3.85%	0.79%	9.96%	2.37%	9.41%
MY-2001	97,318	10,667	10.96%	1.76%	0.32%	9.09%	1.62%	8.78%
MY-2002	44,608	5,174	11.60%	2.15%	0.42%	9.41%	1.87%	9.20%
MY-2003	111,002	7,750	6.98%	0.93%	0.19%	5.77%	1.08%	5.61%
MY-2004	40,337	2,741	6.80%	1.11%	0.20%	5.54%	1.06%	5.38%
MY-2005	130,642	5,412	4.14%	0.43%	0.08%	3.47%	0.55%	3.39%
MY-2006	34,607	1,483	4.29%	0.84%	0.15%	3.36%	0.66%	3.27%

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-2007	130,841	3,043	2.33%	0.22%	0.04%	1.92%	0.30%	1.87%
MY-2008	15,310	313	2.04%	0.54%	0.06%	1.67%	0.24%	1.59%
MY-2009	10,336	189	1.83%	0.39%	0.05%	1.53%	0.16%	1.49%
MY-2010	6,563	104	1.58%	0.29%	0.03%	1.25%	0.12%	1.17%
MY-2011	7,615	71	0.93%	0.30%	0.08%	0.72%	0.13%	0.71%
MY-2012	7,632	89	1.17%	0.07%	0.00%	0.97%	0.18%	0.96%
MY-2013	2,591	39	1.51%	0.39%	0.04%	1.24%	0.19%	1.24%
MY-2014	36	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	1,024,503	122,706	11.98%	5.50%	1.24%	7.57%	2.15%	4.99%

11. Referee Activity

	Certificates Issued
Certificate of Compliance	475
Certificate of Non Compliance	0
Parts Cost	127
Hardship Extensions	1
Exempt Vehicle	31
Exempted by Directive	8
Parts Exemption	17
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	659

12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,197
Stations Locked-Out at Least Once	992
Stations Conducted at Least One Test	7,075

13. Active Technicians

License Type	Technician Count	Daily Average
EA (Test and Repair Enhanced)	5,545	3,346
EB (Test and Repair Basic)	245	0
EI (Repair Only)	1	0
EO (Test and Repair)	4,463	2,691
EO (Test Only)	629	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	155,109	47.43	44,562	46.42	199,671	47.21
STAR Test Only	424,214	48.12	66,743	49.59	490,957	48.32
Non-STAR Test and Repair	130,975	49.32	86,188	46.27	217,163	48.11
Non-STAR Test Only	55,861	43.87	15,778	42.07	71,639	43.47
Test and Repair Dealer	12	60.17	4,857	53.44	4,869	53.46
Total	766,171	47.88	218,128	47.17	984,299	47.72

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	2,676	24.53	11,832	306.19
	\$51-150	2,212	98.85		
	\$151-250	1,706	202.69		
	\$251-450	2,509	343.43		
	Over \$450	2,729	780.89		
Non-STAR Repairs (Test and Repair)	\$1-50	1,719	23.26	6,616	263.74
	\$51-150	1,495	100.99		
	\$151-250	1,098	199.31		
	\$251-450	1,309	336.75		
	Over \$450	995	898.81		
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	68	23.09	1,034	371.99
	\$51-150	117	109.00		
	\$151-250	119	201.97		

Repair Station Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
	\$251-450	286	354.75		
	Over \$450	444	551.41		
Total Repairs	\$1-50	4,463	24.02	19,482	295.27
	\$51-150	3,824	100.00		
	\$151-250	2,923	201.39		
	\$251-450	4,104	342.09		
	Over \$450	4,168	784.59		

16. CAP Repair Costs

CAP Repairs	Total Vehicles	Average Repair Cost
	1,063	353.25

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	72	12	0	3	8	2	8	3
Acceleration Simulation Mode (ASM)	Basic	Non-STAR Test Only	11	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Basic	Referee	0	2	0	1	1	1	1	1
Acceleration Simulation Mode (ASM)	Basic	STAR Test and Repair	48	8	0	1	5	1	6	2
Acceleration Simulation Mode (ASM)	Basic	STAR Test Only	60	10	0	1	4	4	7	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test and Repair	16	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Non-STAR Test Only	5	1	0	1	0	1	0	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	0	1	0	1	0	1	0	1
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test and Repair	6	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	STAR Test Only	6	4	2	0	1	3	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	55	2	0	35	16	39	0
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test and Repair	90,602	6,388	532	525	3,417	2,374	4,445	985
Acceleration Simulation Mode (ASM)	Enhanced	Non-STAR Test Only	44,165	4,877	430	567	2,459	1,879	3,420	1,022
Acceleration Simulation Mode (ASM)	Enhanced	Referee	137	132	19	61	20	68	69	77
Acceleration Simulation Mode (ASM)	Enhanced	STAR Test and Repair	119,811	20,737	1,993	1,824	8,132	9,954	12,559	3,828

	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)	Enhanced	STAR Test Only	343,099	62,602	6,734	5,264	23,370	31,696	37,744	11,386
Acceleration Simulation Mode (ASM)	Enhanced	Unknown Privilege	2,686	581	83	48	201	337	352	90
Acceleration Simulation Mode (ASM)	Partial	Basic Area Dealer	7	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	0	0	0	2	0	0
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test and Repair	18,653	2,493	233	154	982	1,290	1,468	292
Acceleration Simulation Mode (ASM)	Partial	Non-STAR Test Only	4,104	657	68	65	249	312	393	119
Acceleration Simulation Mode (ASM)	Partial	Referee	6	8	0	6	2	3	5	6
Acceleration Simulation Mode (ASM)	Partial	STAR Test and Repair	7,565	1,254	129	85	513	607	769	188
Acceleration Simulation Mode (ASM)	Partial	STAR Test Only	8,676	1,496	148	136	600	727	930	260
Acceleration Simulation Mode (ASM)	Partial	Unknown Privilege	25	4	1	0	4	1	4	0
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	239	30	0	23	210	36	0
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test and Repair	10,933	726	82	56	368	310	482	113
Acceleration Simulation Mode (ASM)	Unknown Program	Non-STAR Test Only	3,304	395	42	56	188	184	259	94
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	10	8	2	4	0	4	3	6
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test and Repair	4,652	638	78	53	281	297	418	104
Acceleration Simulation Mode (ASM)	Unknown Program	STAR Test Only	10,686	1,440	195	150	653	687	910	279
Acceleration Simulation Mode (ASM)	Unknown Program	Unknown Privilege	64	12	2	1	1	11	5	1
Two Speed Idle (TSI)	Basic	Basic Area Dealer	3,587	142	6	12	68	30	107	21
Two Speed Idle (TSI)	Basic	Government Fleet	0	6	0	0	5	1	5	0
Two Speed Idle (TSI)	Basic	Non-STAR Test and Repair	50,062	4,366	570	285	1,978	1,332	3,137	644
Two Speed Idle (TSI)	Basic	Non-STAR Test Only	5,334	572	63	42	273	151	411	103

	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)	Basic	Referee	7	25	1	11	6	4	15	14
Two Speed Idle (TSI)	Basic	STAR Test and Repair	14,999	1,820	199	141	816	486	1,315	367
Two Speed Idle (TSI)	Basic	STAR Test Only	6,336	852	99	93	377	254	575	182
Two Speed Idle (TSI)	Basic	Unknown Privilege	27	6	2	1	2	2	4	2
Two Speed Idle (TSI)	Change of Ownership	Basic Area Dealer	28	2	0	0	1	1	2	0
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test and Repair	2,643	306	58	22	153	114	218	52
Two Speed Idle (TSI)	Change of Ownership	Non-STAR Test Only	238	41	5	7	15	14	30	10
Two Speed Idle (TSI)	Change of Ownership	STAR Test and Repair	1,654	358	71	38	113	147	239	75
Two Speed Idle (TSI)	Change of Ownership	STAR Test Only	686	153	27	24	46	56	103	41
Two Speed Idle (TSI)	Change of Ownership	Unknown Privilege	5	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Enhanced	Basic Area Dealer	354	12	1	3	7	1	9	4
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	8	0	0	7	1	7	0
Two Speed Idle (TSI)	Enhanced	Non-STAR Test and Repair	19,660	859	69	62	560	159	667	115
Two Speed Idle (TSI)	Enhanced	Non-STAR Test Only	8,007	551	61	59	349	126	429	83
Two Speed Idle (TSI)	Enhanced	Referee	23	14	3	7	4	4	9	10
Two Speed Idle (TSI)	Enhanced	STAR Test and Repair	19,921	1,527	144	123	937	273	1,204	255
Two Speed Idle (TSI)	Enhanced	STAR Test Only	50,839	4,094	349	352	2,573	803	3,181	656
Two Speed Idle (TSI)	Enhanced	Unknown Privilege	351	23	4	3	13	11	13	3
Two Speed Idle (TSI)	Partial	Non-STAR Test and Repair	2,560	165	15	8	98	42	129	19
Two Speed Idle (TSI)	Partial	Non-STAR Test Only	481	34	2	5	20	6	25	10
Two Speed Idle (TSI)	Partial	STAR Test and Repair	1,155	103	12	12	54	26	70	21
Two Speed Idle (TSI)	Partial	STAR Test Only	1,140	103	8	7	63	18	77	17
Two Speed Idle (TSI)	Unknown Program	Basic Area Dealer	603	12	1	0	10	2	10	0
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	8	1	0	6	1	7	0
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test and Repair	5,078	343	38	29	208	86	271	57
Two Speed Idle (TSI)	Unknown Program	Non-STAR Test Only	914	60	7	8	36	18	43	10
Two Speed Idle (TSI)	Unknown Program	Referee	9	3	0	2	1	2	2	2
Two Speed Idle (TSI)	Unknown Program	STAR Test and Repair	2,774	263	33	25	137	77	180	49
Two Speed Idle (TSI)	Unknown Program	STAR Test Only	3,374	245	31	43	143	58	172	63

	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	Basic	Basic Area Dealer	262	6	0	0	6	7	6	0
UnKnown TestType	Basic	Government Fleet	0	1	0	0	1	4	1	0
UnKnown TestType	Basic	Non-STAR Test and Repair	2,262	74	0	9	51	83	51	23
UnKnown TestType	Basic	Non-STAR Test Only	205	11	0	1	10	11	10	1
UnKnown TestType	Basic	Referee	3	2	0	2	0	2	0	2
UnKnown TestType	Basic	STAR Test and Repair	650	28	0	5	18	28	18	12
UnKnown TestType	Basic	STAR Test Only	247	10	0	1	6	10	6	4
UnKnown TestType	Change of Ownership	Non-STAR Test and Repair	96	5	0	0	5	5	5	0
UnKnown TestType	Change of Ownership	STAR Test and Repair	81	2	0	0	1	2	1	1
UnKnown TestType	Change of Ownership	STAR Test Only	33	6	0	0	4	6	4	3
UnKnown TestType	Enhanced	Basic Area Dealer	27	1	0	0	1	1	1	0
UnKnown TestType	Enhanced	Government Fleet	0	1	0	0	1	53	1	0
UnKnown TestType	Enhanced	Non-STAR Test and Repair	3,000	98	0	11	73	115	73	26
UnKnown TestType	Enhanced	Non-STAR Test Only	1,212	39	0	7	30	39	30	12
UnKnown TestType	Enhanced	Referee	10	3	0	1	0	3	1	2
UnKnown TestType	Enhanced	STAR Test and Repair	2,504	128	0	18	94	150	94	40
UnKnown TestType	Enhanced	STAR Test Only	5,568	294	0	54	191	298	191	115
UnKnown TestType	Enhanced	Unknown Privilege	44	3	0	1	2	3	2	1
UnKnown TestType	Partial	Non-STAR Test and Repair	972	36	0	4	27	38	27	11
UnKnown TestType	Partial	Non-STAR Test Only	163	7	0	2	4	7	4	4
UnKnown TestType	Partial	Referee	1	2	0	2	0	2	0	2
UnKnown TestType	Partial	STAR Test and Repair	433	20	0	3	13	20	13	9
UnKnown TestType	Partial	STAR Test Only	356	15	0	4	8	15	8	7
UnKnown TestType	Unknown Program	Basic Area Dealer	28	1	0	1	0	2	0	1
UnKnown TestType	Unknown Program	Government Fleet	0	0	0	0	0	23	0	0
UnKnown TestType	Unknown Program	Non-STAR Test and Repair	544	14	0	1	11	36	11	3
UnKnown TestType	Unknown Program	Non-STAR Test Only	125	2	0	0	1	4	1	1
UnKnown TestType	Unknown Program	Referee	20	6	0	5	0	6	0	6
UnKnown TestType	Unknown Program	STAR Test and Repair	313	11	0	3	5	21	5	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
UnKnown TestType	Unknown Program	STAR Test Only	401	15	0	6	7	30	7	8