

# Executive Summary Report

## SMOG CHECK Statewide

September 2009

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	775,426	94,579	12.20%
Total	894,795	121,313	13.56%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	671,102	86.55%	104,324	13.45%
Total	759,532	84.88%	135,263	15.12%

### 3. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	412,093	86.49%	64,368	13.51%
Total	468,727	85.57%	79,048	14.43%

### 4. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	14,038	1.81%
All Emissions	47,194	6.09%
All Visual	10,957	1.41%
All Functional	61,483	7.93%
OBDII	35,045	4.52%
Overall	94,579	12.20%

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

	Initial Tests	Certificates Issued
Volunteers	254,442	228,789
Directed Vehicles	222,019	183,304
Total	476,461	412,093

### 6. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	50,142	42,835
Directed Vehicles	18,915	14,541
Total	69,057	57,376

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

Station Type	Enhanced	Partial	Basic	Change of Ownership	Unknown	Total
Regular Test and Repair	3,851	271	528	29	0	4,679
Test Only	2,279	44	22	1	0	2,346
Basic Area Dealer	0	1	111	1	0	113
Gold Shield	498	33	55	77	0	663
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	6,944	359	764	111	0	8,178

### 8. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	617,294	76,326	12.36%	11,215	1.82%
Partially Enhanced	37,997	5,537	14.57%	797	2.10%
Basic	72,233	8,076	11.18%	1,275	1.77%
Change of Ownership	5,052	808	15.99%	226	4.47%
No Program	11	1	9.09%	1	9.09%
Unknown Program	42,839	3,831	8.94%	524	1.22%
Total Program Area	775,426	94,579	12.20%	14,038	1.81%

### 9. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	476,461	63,006	13.22%	9,908	2.08%
Regular	223,331	19,820	8.87%	2,324	1.04%
Basic Area Dealer	3,952	174	4.40%	22	0.56%
Gold Shield in Enhanced Area	53,498	8,729	16.32%	1,266	2.37%
Gold Shield in Basic Area	11,110	1,692	15.23%	295	2.66%
Gold Shield in COO Area	4,447	619	13.92%	163	3.67%
Business Fleet	2	0	0.00%	0	0.00%
Permanent Fleet Registered	133	9	6.77%	1	0.75%
Referee	635	384	60.47%	46	7.24%
Government Fleet	1,855	146	7.87%	13	0.70%
Total	775,426	94,579	12.20%	14,038	1.81%

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-1967	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1973	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	3	1	33.33%	33.33%	0.00%	0.00%	0.00%	0.00%
MY-1975	5	1	20.00%	20.00%	0.00%	0.00%	0.00%	0.00%
MY-1976	968	271	28.00%	19.21%	10.33%	16.74%	7.64%	0.00%
MY-1977	1,491	402	26.96%	17.64%	8.65%	17.37%	6.84%	0.00%
MY-1978	1,644	501	30.47%	19.53%	9.79%	19.40%	7.66%	0.00%
MY-1979	2,021	596	29.49%	18.36%	9.35%	19.10%	8.51%	0.00%
MY-1980	1,127	318	28.22%	19.88%	10.91%	15.79%	6.83%	0.00%
MY-1981	1,358	402	29.60%	22.02%	10.97%	15.91%	7.29%	0.00%
MY-1982	1,563	463	29.62%	22.71%	11.26%	15.16%	7.42%	0.00%
MY-1983	1,967	565	28.72%	22.72%	10.02%	15.71%	8.90%	0.00%
MY-1984	3,861	1,152	29.84%	23.26%	11.94%	16.34%	7.23%	0.00%
MY-1985	5,133	1,516	29.53%	23.09%	10.87%	16.11%	6.39%	0.00%
MY-1986	8,035	2,114	26.31%	19.33%	9.00%	14.92%	5.15%	0.00%
MY-1987	8,966	2,450	27.33%	20.12%	8.47%	14.79%	5.26%	0.00%
MY-1988	10,761	2,717	25.25%	18.46%	7.59%	13.75%	4.18%	0.00%
MY-1989	15,214	3,523	23.16%	16.85%	6.27%	12.62%	3.52%	0.00%
MY-1990	17,446	3,912	22.42%	16.57%	6.00%	11.56%	3.18%	0.00%
MY-1991	21,718	4,585	21.11%	15.34%	5.13%	10.64%	2.56%	0.00%
MY-1992	21,291	4,233	19.88%	14.24%	4.68%	9.80%	2.70%	0.00%
MY-1993	27,252	6,096	22.37%	17.04%	4.26%	10.14%	2.47%	0.00%
MY-1994	28,995	5,692	19.63%	13.82%	3.17%	9.35%	2.55%	0.00%
MY-1995	45,482	7,270	15.98%	10.85%	2.30%	7.55%	1.97%	0.00%
MY-1996	29,628	5,547	18.72%	8.08%	1.41%	13.27%	1.39%	12.47%
MY-1997	55,085	7,727	14.03%	5.36%	0.90%	10.23%	1.11%	9.57%
MY-1998	39,571	5,240	13.24%	4.74%	0.87%	9.82%	1.08%	9.34%
MY-1999	69,019	6,218	9.01%	2.20%	0.42%	7.17%	0.76%	6.90%
MY-2000	39,911	4,101	10.28%	2.33%	0.53%	8.58%	0.84%	8.25%
MY-2001	109,946	7,865	7.15%	0.97%	0.20%	6.29%	0.52%	6.08%
MY-2002	29,283	2,056	7.02%	1.10%	0.27%	6.02%	0.57%	5.80%
MY-2003	126,801	5,532	4.36%	0.52%	0.13%	3.85%	0.31%	3.69%
MY-2004	14,590	583	4.00%	0.46%	0.11%	3.53%	0.26%	3.39%
MY-2005	14,714	440	2.99%	0.31%	0.09%	2.68%	0.18%	2.54%
MY-2006	6,937	215	3.10%	0.42%	0.12%	2.57%	0.27%	2.49%
MY-2007	5,372	151	2.81%	0.17%	0.00%	2.61%	0.15%	2.48%
MY-2008	5,495	89	1.62%	0.25%	0.00%	1.31%	0.09%	1.24%
MY-2009	2,486	33	1.33%	0.32%	0.00%	1.01%	0.20%	0.93%
MY-2010	285	2	0.70%	0.00%	0.00%	0.70%	0.00%	0.70%
All Model Years	775,426	94,579	12.20%	6.09%	1.81%	7.93%	1.41%	4.52%

### 11. Referee Activity

	Certificates Issued
Certificate of Compliance	480
Certificate of Non Compliance	0
Parts Cost	220
Hardship Extensions	2
Exempt Vehicle	14
Exempted by Directive	94
Parts Exemption	4
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>814</b>

### 12. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,082
Stations Locked-Out at Least Once	264
Stations Conducted at Least One Test	7,096

### 13. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,840	5,724
EA	Gas Endorsement	10	0
EB	Both Endorsement	47	0
EB	Gas Endorsement	496	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	414,765	48.73	55,838	49.34	470,603	48.80
Test and Repair	141,871	47.22	78,874	47.09	220,745	47.18
Test and Repair Dealer	33	67.97	3,919	52.91	3,952	53.04
Referee	213	30.00	109	30.00	322	30.00
Gold Shield in Enhanced Area	45,715	48.01	7,697	49.71	53,412	48.26
Gold Shield in Basic Area	425	59.95	10,685	40.66	11,110	41.40
Gold Shield in COO Area	168	63.88	4,279	52.53	4,447	52.96

### 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	6,586	22.15	<b>21,324</b>	<b>215.52</b>
	\$51-150	5,242	100.11		
	\$151-250	3,222	199.17		
	\$251-450	3,629	337.46		
	Over \$450	2,645	778.37		
CAP Repairs	\$1-50	120	25.88	<b>4,531</b>	<b>404.37</b>
	\$51-150	214	106.40		
	\$151-250	442	202.69		
	\$251-450	1,441	356.90		
	Over \$450	2,314	519.64		
Total Repairs	\$1-50	5,499	22.31	<b>22,256</b>	<b>288.82</b>
	\$51-150	4,008	99.85		
	\$151-250	3,096	200.36		
	\$251-450	4,520	344.42		
	Over \$450	5,133	726.27		

### 16. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	4,269	404.37

### 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	Referee	0	3	1	2	2	3	2	2
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	40	4	1	0	1	2	2	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 Only	22	8	2	0	2	5	4	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Gold Shield in COO Area	3	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	3	1	1	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	307	61	7	1	21	32	34	5
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	131	24	5	2	11	13	17	5
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	32,684	6,770	971	354	2,483	3,421	4,356	815
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	76	2	1	35	30	47	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	138	182	31	69	54	90	92	92
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	99,335	9,211	906	454	5,101	3,477	6,755	901
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	337,917	55,057	8,666	2,947	17,865	30,983	34,158	6,416
Acceleration Simulation Mode (ASM)	No Program	Test Only	7	1	1	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	40	16	1	0	4	7	9	1
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	3,133	872	135	40	274	484	553	90
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	6	14	2	8	3	6	7	10
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	15,488	2,654	366	128	803	1,416	1,637	283
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,579	1,650	248	77	540	942	965	164
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,625	251	32	24	113	119	165	33
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	48	7	0	10	34	16	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	18	4	0	3	2	3	2	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	11,852	1,078	118	67	517	490	713	131
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	12,476	1,573	259	118	630	840	1,020	208
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	8,056	1,473	268	111	440	523	987	283
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	258	39	5	3	19	11	30	5
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	1,078	202	37	13	79	69	144	24
Two Speed Idle (TSI)	Basic	Referee	18	39	7	14	12	12	27	22
Two Speed Idle (TSI)	Basic	Test and Repair	42,457	4,986	716	278	1,764	1,623	3,644	551
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,831	148	21	5	52	42	112	16
Two Speed Idle (TSI)	Basic	Test Only	7,834	1,163	217	58	432	457	770	139
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	58	23	7	2	8	9	18	3
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,815	391	116	20	92	190	242	41
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	123	31	8	0	8	12	20	4
Two Speed Idle (TSI)	Change of Ownership	Referee	2	9	4	2	1	6	4	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,315	201	44	10	73	80	148	22
Two Speed Idle (TSI)	Change of Ownership	Test Only	827	148	46	12	37	75	85	23
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	390	44	5	1	21	9	35	7
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	493	44	8	2	16	16	32	2
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,919	501	69	26	264	139	376	63
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	13	3	0	5	5	10	0
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	75	5	1	0	2	3	2	0
Two Speed Idle (TSI)	Enhanced	Referee	47	23	1	15	4	2	7	18
Two Speed Idle (TSI)	Enhanced	Test and Repair	20,064	1,119	111	52	731	238	927	94
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	350	15	1	0	14	1	15	0
Two Speed Idle (TSI)	Enhanced	Test Only	39,159	3,111	428	157	1,861	841	2,359	285
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	50	6	2	1	2	2	3	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	343	57	8	5	27	19	39	6
Two Speed Idle (TSI)	Partial	Test and Repair	2,019	158	22	10	75	49	116	12
Two Speed Idle (TSI)	Partial	Test Only	1,009	97	13	6	55	26	78	11

	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	414	70	7	3	32	19	52	12
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	1,027	113	27	12	38	50	87	21
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	378	44	6	6	20	15	28	8
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	7	1	0	3	2	5	0
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,017	408	39	25	243	88	347	41
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	379	7	0	0	4	1	7	0
Two Speed Idle (TSI)	Unknown Program	Test Only	3,259	198	28	11	120	57	149	21
UnKnown TestType	Basic	Referee	0	9	0	7	0	9	0	7
UnKnown TestType	Change of Ownership	Referee	0	2	0	0	0	2	0	0
UnKnown TestType	Enhanced	Referee	3	65	0	35	0	65	0	36
UnKnown TestType	Partial	Referee	0	2	0	0	0	2	0	0
UnKnown TestType	Unknown Program	Referee	7	24	0	5	1	24	1	9