

# Executive Summary Report

## SMOG CHECK Statewide

February 2008

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	819,023	107,453	13.12%
Total	946,770	135,478	14.31%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	697,855	85.21%	121,168	14.79%
Total	792,336	83.69%	154,434	16.31%

### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	414,165	85.27%	71,555	14.73%
Total	473,183	84.42%	87,303	15.58%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	16,864	2.06%
All Emissions	54,434	6.65%
All Visual	11,494	1.40%
All Functional	36,394	4.44%
OBDII	36,309	4.43%
Overall	107,453	13.12%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	655,482	86,494	13.20%	13,323	2.03%
Partially Enhanced	40,221	6,169	15.34%	965	2.40%
Basic	73,767	9,216	12.49%	1,595	2.16%
Change of Ownership	5,747	874	15.21%	224	3.90%
No Program	5	1	20.00%	0	0.00%
Unknown Program	43,801	4,699	10.73%	757	1.73%
Total Program Area	819,023	107,453	13.12%	16,864	2.06%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	485,720	70,188	14.45%	11,708	2.41%
Regular	265,425	26,888	10.13%	3,462	1.30%
Basic Area Dealer	4,256	226	5.31%	31	0.73%
Gold Shield in Enhanced Area	46,946	7,652	16.30%	1,161	2.47%
Gold Shield in Basic Area	6,560	1,004	15.30%	202	3.08%
Gold Shield in COO Area	4,894	680	13.89%	177	3.62%
Business Fleet	19	2	10.53%	0	0.00%
Permanent Fleet Registered	45	10	22.22%	2	4.44%
Referee	761	427	56.11%	89	11.70%
Government Fleet	4,396	376	8.55%	32	0.73%
Unknown Privilege	1	0	0.00%	0	0.00%
Total	819,023	107,453	13.12%	16,864	2.06%

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

	Initial Tests	Certificates Issued
Volunteers	245,790	218,240
Directed Vehicles	239,930	195,925
Total	485,720	414,165

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	43,421	37,057
Directed Vehicles	14,979	11,414
Total	58,400	48,471

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6. 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-1965	3	3	100.00%	100.00%	33.33%	0.00%	0.00%	0.00%
MY-1967	1	1	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%
MY-1974	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1975	11	6	54.55%	36.36%	27.27%	45.45%	18.18%	0.00%
MY-1976	1,365	415	30.40%	20.00%	9.23%	18.97%	8.86%	0.00%
MY-1977	1,912	607	31.75%	18.57%	7.69%	20.87%	9.83%	0.00%
MY-1978	2,182	726	33.27%	19.57%	9.49%	22.69%	8.94%	0.00%
MY-1979	2,508	827	32.97%	20.22%	9.37%	21.61%	8.09%	0.00%
MY-1980	1,548	472	30.49%	19.96%	10.21%	18.54%	8.91%	0.00%
MY-1981	1,795	594	33.09%	24.62%	11.42%	18.66%	8.02%	0.00%
MY-1982	2,122	632	29.78%	22.76%	11.55%	17.01%	7.12%	0.00%
MY-1983	2,893	905	31.28%	23.92%	11.20%	17.77%	6.71%	0.00%
MY-1984	5,315	1,724	32.44%	24.97%	12.25%	18.59%	7.00%	0.00%
MY-1985	7,469	2,367	31.69%	23.66%	11.72%	18.20%	6.57%	0.00%
MY-1986	10,122	2,859	28.25%	20.58%	9.59%	16.03%	5.19%	0.00%
MY-1987	12,020	3,483	28.98%	21.82%	9.08%	15.57%	4.80%	0.00%
MY-1988	14,523	3,948	27.18%	20.04%	7.90%	14.76%	4.22%	0.00%
MY-1989	19,937	4,768	23.92%	16.96%	6.47%	13.33%	3.32%	0.00%
MY-1990	23,491	5,332	22.70%	16.38%	5.91%	11.97%	2.67%	0.00%
MY-1991	26,458	5,559	21.01%	14.51%	4.65%	11.65%	2.34%	0.00%
MY-1992	27,092	5,279	19.49%	13.40%	4.31%	10.11%	1.99%	0.00%
MY-1993	32,004	6,703	20.94%	15.32%	3.72%	9.92%	2.17%	0.00%
MY-1994	38,629	7,100	18.38%	12.11%	2.62%	9.28%	1.98%	0.00%
MY-1995	38,865	6,600	16.98%	11.17%	2.53%	8.52%	1.85%	0.00%
MY-1996	52,029	8,174	15.71%	6.47%	1.05%	1.45%	1.02%	10.82%
MY-1997	45,418	6,974	15.36%	5.58%	0.99%	1.47%	0.93%	11.05%
MY-1998	68,532	7,040	10.27%	3.10%	0.57%	0.79%	0.67%	7.62%
MY-1999	53,647	5,396	10.06%	2.36%	0.45%	0.71%	0.65%	8.02%
MY-2000	110,407	7,336	6.64%	1.07%	0.26%	0.50%	0.39%	5.49%
MY-2001	45,933	4,250	9.25%	1.02%	0.26%	0.76%	0.47%	8.25%
MY-2002	112,273	5,156	4.59%	0.37%	0.09%	0.42%	0.31%	3.97%
MY-2003	17,967	746	4.15%	0.49%	0.17%	0.23%	0.19%	3.52%
MY-2004	20,564	780	3.79%	0.22%	0.06%	0.23%	0.17%	3.37%
MY-2005	6,959	238	3.42%	0.17%	0.03%	0.16%	0.19%	2.99%
MY-2006	5,741	180	3.14%	0.33%	0.09%	0.30%	0.24%	2.46%
MY-2007	5,918	189	3.19%	0.68%	0.22%	0.27%	0.71%	2.20%
MY-2008	1,367	83	6.07%	3.80%	1.24%	0.15%	4.39%	1.39%
MY-2009	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
All Model Years	819,023	107,453	13.12%	6.65%	2.06%	4.44%	1.40%	4.43%

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**7. Referee Activity**

	Certificates Issued
Certificate of Compliance	545
Certificate of Non Compliance	4
Parts Cost	80
Hardship Extensions	148
Exempt Vehicle	143
Exempted by Directive	129
Parts Exemption	1
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	<b>1,050</b>

**8. Active Stations**

	Station Count
Licensed Stations that did not Conduct a Test	1,437
Stations Locked-Out at Least Once	199
Stations Conducted at Least One Test	7,417

**9. Active Technicians**

		Technician Count	Daily Average
EA	Both Endorsement	10,039	6,050
EA	Gas Endorsement	13	0
EB	Both Endorsement	58	0
EB	Gas Endorsement	522	0
GU	Both Endorsement	20	0

**10. 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	412,391	49.87	45,826	50.46	458,217	49.92
Test and Repair	169,957	47.96	80,701	47.50	250,658	47.81
Test and Repair Dealer	13	38.15	4,059	49.77	4,072	49.73
Referee	332	30.00	149	30.00	481	30.00
Gold Shield in Enhanced Area	35,489	48.67	8,915	45.15	44,404	47.96
Gold Shield in Basic Area	0	0.00	6,228	38.94	6,228	38.94
Gold Shield in COO Area	280	54.95	4,467	47.45	4,747	47.89

**11. Repair Costs**

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	7,363	22.11	<b>25,926</b>	<b>214.65</b>
	\$51-150	6,740	100.98		
	\$151-250	4,310	199.38		
	\$251-450	4,482	336.86		
	Over \$450	3,031	776.10		
CAP Repairs	\$0-50	140	26.24	<b>3,923</b>	<b>363.75</b>
	\$51-150	344	107.63		
	\$151-250	566	204.56		
	\$251-450	1,402	353.70		
	Over \$450	1,471	526.61		
Total Repairs	\$0-50	6,444	22.30	<b>26,848</b>	<b>260.43</b>
	\$51-150	5,637	101.10		
	\$151-250	4,469	200.33		
	\$251-450	5,530	342.04		
	Over \$450	4,768	732.28		

**12. CAP Repair Costs**

	Total Vehicles	Average Repair Cost
CAP Repairs	3,923	363.75

**13. 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	Test and Repair	62	7	1	1	1	3	6	2

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	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	47	6	0	0	1	5	2	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	9	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	159	17	1	0	9	8	3	1
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	26,992	5,561	803	283	1,840	2,866	1,855	661
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	108	3	1	64	34	15	2
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	0	5	1	0	3	2	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	214	201	41	76	48	111	66	102
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	125,423	13,439	1,441	674	6,654	5,248	3,694	1,262
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	348,527	62,014	10,304	3,225	18,251	35,348	21,604	6,513
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,541	627	102	19	199	339	220	61
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	4	1	0	2	2	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	7	15	3	6	3	8	6	10
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	17,594	3,335	486	165	931	1,775	1,207	349
Acceleration Simulation Mode (ASM)	Partial	Test Only	9,634	1,852	314	105	519	1,053	626	201
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,168	237	42	17	84	121	86	36
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	220	20	0	35	163	28	0
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	45	25	8	5	3	14	7	14
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	12,942	1,436	186	68	643	659	366	135
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,642	1,751	323	109	685	959	486	208
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,717	910	188	51	241	375	404	135

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	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	Gold Shield in COO Area	610	131	34	3	33	60	63	8
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	3,648	665	119	55	199	242	297	121
Two Speed Idle (TSI)	Basic	Government Fleet	0	12	1	0	4	2	6	0
Two Speed Idle (TSI)	Basic	Referee	26	28	4	9	8	8	10	13
Two Speed Idle (TSI)	Basic	Test and Repair	43,659	6,116	973	326	1,905	2,100	2,715	700
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,974	176	25	9	59	45	74	19
Two Speed Idle (TSI)	Basic	Test Only	7,058	1,164	250	48	390	476	423	101
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	52	9	3	1	3	3	5	3
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,841	389	111	33	70	213	159	53
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	141	37	8	4	9	17	15	6
Two Speed Idle (TSI)	Change of Ownership	Referee	1	3	1	1	0	2	1	1
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,907	284	59	23	81	116	144	48
Two Speed Idle (TSI)	Change of Ownership	Test and Repair Dealer	38	1	0	0	0	1	0	0
Two Speed Idle (TSI)	Change of Ownership	Test Only	785	150	41	11	33	79	61	22
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	397	40	4	3	23	8	13	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	497	34	4	0	12	9	15	0
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	3,603	438	73	12	204	141	144	40
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	21	4	0	10	8	4	1
Two Speed Idle (TSI)	Enhanced	Permanent Fleet Registered	13	5	1	0	0	5	2	1
Two Speed Idle (TSI)	Enhanced	Referee	54	34	5	9	8	14	7	20
Two Speed Idle (TSI)	Enhanced	Test and Repair	22,214	1,572	202	77	854	401	424	153
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	414	27	2	1	19	4	4	1
Two Speed Idle (TSI)	Enhanced	Test Only	32,965	2,962	434	128	1,566	882	736	235
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	45	6	2	0	3	2	2	0
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	49	7	3	0	3	3	3	1
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	252	27	6	2	7	12	10	3
Two Speed Idle (TSI)	Partial	Test and Repair	1,958	202	34	14	88	62	71	26
Two Speed Idle (TSI)	Partial	Test Only	891	87	14	5	41	30	22	9
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	279	39	5	5	19	11	14	6

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	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	946	98	24	9	37	40	32	16
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	495	60	8	7	27	15	22	10
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	11	3	1	2	7	4	2
Two Speed Idle (TSI)	Unknown Program	Referee	78	71	27	4	1	58	3	63
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,053	496	79	29	248	151	147	52
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	408	19	4	1	14	4	5	1
Two Speed Idle (TSI)	Unknown Program	Test Only	2,604	201	28	6	106	60	51	13
UnKnown TestType	Basic	Referee	1	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Referee	13	13	0	0	0	13	0	13
UnKnown TestType	Unknown Program	Referee	35	35	0	0	0	35	0	35

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