** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, five years before first inspection
**
** Output file: SENS_SB1997_NEW5.OUT
**
** Date of this run: 1/15/ 91
**   12:39
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.76	14.7%	32.80	26.85	18.1%	2.28	2.12	7.3%	0.00	0.00	0.0%
1985	2.96	2.44	17.6%	31.04	24.67	20.5%	2.16	1.97	8.9%	0.00	0.00	0.0%
1986	2.70	2.16	19.9%	29.25	22.69	22.4%	2.05	1.84	10.4%	0.00	0.00	0.0%
1987	2.45	1.92	21.6%	27.39	20.84	23.9%	1.97	1.74	11.7%	0.00	0.00	0.0%
1988	2.23	1.71	23.1%	25.65	19.18	25.2%	1.89	1.65	12.8%	0.00	0.00	0.0%
1989	2.04	1.54	24.6%	24.16	17.77	26.5%	1.83	1.58	13.8%	0.00	0.00	0.0%
1990	1.88	1.39	26.0%	22.93	16.53	27.9%	1.78	1.52	14.7%	0.00	0.00	0.0%
1991	1.74	1.27	26.8%	21.79	15.46	29.0%	1.73	1.47	15.1%	0.00	0.00	0.0%
1992	1.61	1.17	27.4%	20.74	14.56	29.8%	1.68	1.43	15.2%	0.00	0.00	0.0%
1993	1.50	1.09	27.7%	19.82	13.75	30.6%	1.65	1.40	15.2%	0.00	0.00	0.0%
1994	1.41	1.02	27.7%	18.91	13.02	31.1%	1.61	1.37	15.1%	0.00	0.00	0.0%
1995	1.32	0.95	27.7%	18.08	12.38	31.6%	1.59	1.35	14.9%	0.00	0.00	0.0%
1996	1.25	0.90	27.6%	17.36	11.81	32.0%	1.57	1.34	14.6%	0.00	0.00	0.0%
1997	1.19	0.86	27.5%	16.73	11.34	32.2%	1.55	1.33	14.4%	0.00	0.00	0.0%
1998	1.13	0.82	27.5%	16.16	10.92	32.4%	1.54	1.32	14.1%	0.00	0.00	0.0%
1999	1.08	0.78	27.6%	15.67	10.57	32.5%	1.53	1.32	13.8%	0.00	0.00	0.0%
2000	1.04	0.76	26.2%	15.23	10.36	32.0%	1.52	1.31	13.6%	0.00	0.00	0.0%
2001	1.00	0.74	26.0%	14.86	10.20	31.4%	1.51	1.31	13.4%	0.00	0.00	0.0%
2002	0.96	0.71	25.7%	14.55	9.99	31.3%	1.51	1.31	13.2%	0.00	0.00	0.0%
2003	0.94	0.71	24.7%	14.36	9.83	31.5%	1.50	1.30	13.0%	0.00	0.00	0.0%
2004	0.92	0.70	23.7%	14.19	9.69	31.7%	1.49	1.30	12.8%	0.00	0.00	0.0%
2005	0.90	0.69	23.5%	14.04	9.57	31.9%	1.49	1.30	12.6%	0.00	0.00	0.0%
2006	0.89	0.68	23.4%	13.95	9.49	32.0%	1.48	1.30	12.5%	0.00	0.00	0.0%
2007	0.88	0.68	23.3%	13.87	9.41	32.1%	1.48	1.29	12.4%	0.00	0.00	0.0%
2008	0.88	0.67	23.3%	13.82	9.36	32.3%	1.47	1.29	12.3%	0.00	0.00	0.0%
2009	0.88	0.67	23.3%	13.79	9.32	32.4%	1.47	1.29	12.1%	0.00	0.00	0.0%
2010	0.87	0.67	23.3%	13.78	9.30	32.5%	1.47	1.29	12.0%	0.00	0.00	0.0%
2011	0.87	0.67	23.3%	13.77	9.28	32.6%	1.47	1.29	11.9%	0.00	0.00	0.0%
2012	0.87	0.67	23.3%	13.76	9.28	32.5%	1.47	1.29	11.8%	0.00	0.00	0.0%
2013	0.87	0.67	23.2%	13.76	9.28	32.5%	1.47	1.30	11.8%	0.00	0.00	0.0%
2014	0.87	0.67	23.2%	13.75	9.28	32.5%	1.47	1.30	11.7%	0.00	0.00	0.0%
2015	0.87	0.67	23.2%	13.75	9.27	32.6%	1.47	1.30	11.6%	0.00	0.00	0.0%
2016	0.87	0.67	23.2%	13.74	9.26	32.6%	1.47	1.30	11.6%	0.00	0.00	0.0%
2017	0.87	0.67	23.2%	13.74	9.25	32.7%	1.47	1.30	11.5%	0.00	0.00	0.0%
2018	0.87	0.67	23.2%	13.74	9.25	32.7%	1.47	1.30	11.5%	0.00	0.00	0.0%
2019	0.87	0.67	23.2%	13.74	9.25	32.7%	1.47	1.30	11.5%	0.00	0.00	0.0%
2020	0.87	0.67	23.2%	13.74	9.25	32.7%	1.47	1.30	11.5%	0.00	0.00	0.0%

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** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, no free years before first inspection, annual
**
**      Output file: SENS_SB1997_NEW0_ANN.OUT
**
** Date of this run:  1/15/  91
**                   12:45
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	SB 1997
Mechanic Performance:	ENHANCED
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	0
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, no free years before first inspection, annual
**
** Output file: SENS_SB1997_NEW0_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:45
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.1%	28.39	23.15	18.5%	2.01	1.80	10.6%	0.00	0.00	0.0%
1985	2.53	2.04	19.2%	26.40	20.74	21.4%	1.90	1.66	12.6%	0.00	0.00	0.0%
1986	2.29	1.80	21.1%	24.48	18.55	24.2%	1.79	1.53	14.7%	0.00	0.00	0.0%
1987	2.06	1.59	22.8%	22.65	16.60	26.7%	1.69	1.41	16.7%	0.00	0.00	0.0%
1988	1.86	1.40	24.6%	20.93	14.91	28.8%	1.60	1.30	18.8%	0.00	0.00	0.0%
1989	1.68	1.23	26.5%	19.32	13.43	30.5%	1.51	1.19	20.7%	0.00	0.00	0.0%
1990	1.52	1.10	27.8%	17.93	12.24	31.7%	1.41	1.09	22.3%	0.00	0.00	0.0%
1991	1.38	0.98	28.7%	16.68	11.26	32.5%	1.31	1.00	23.5%	0.00	0.00	0.0%
1992	1.26	0.89	29.3%	15.61	10.46	32.9%	1.21	0.92	24.1%	0.00	0.00	0.0%
1993	1.16	0.81	29.6%	14.70	9.81	33.3%	1.13	0.85	24.4%	0.00	0.00	0.0%
1994	1.06	0.75	29.8%	13.82	9.15	33.8%	1.05	0.79	24.4%	0.00	0.00	0.0%
1995	0.98	0.69	29.8%	12.92	8.47	34.5%	0.98	0.74	24.1%	0.00	0.00	0.0%
1996	0.90	0.63	29.6%	12.07	7.83	35.1%	0.92	0.70	23.5%	0.00	0.00	0.0%
1997	0.83	0.59	29.2%	11.26	7.25	35.6%	0.87	0.67	22.5%	0.00	0.00	0.0%
1998	0.76	0.54	28.7%	10.48	6.72	35.9%	0.82	0.65	21.3%	0.00	0.00	0.0%
1999	0.70	0.50	28.0%	9.77	6.25	36.0%	0.78	0.62	19.9%	0.00	0.00	0.0%
2000	0.66	0.48	27.7%	9.13	5.96	34.7%	0.74	0.60	18.5%	0.00	0.00	0.0%
2001	0.62	0.45	27.3%	8.52	5.56	34.7%	0.71	0.59	17.2%	0.00	0.00	0.0%
2002	0.59	0.43	26.7%	7.98	5.23	34.4%	0.68	0.57	16.1%	0.00	0.00	0.0%
2003	0.56	0.42	25.0%	7.45	4.91	34.1%	0.66	0.56	15.0%	0.00	0.00	0.0%
2004	0.53	0.40	24.1%	6.95	4.59	33.9%	0.64	0.55	14.1%	0.00	0.00	0.0%
2005	0.51	0.39	23.6%	6.50	4.31	33.7%	0.63	0.54	13.3%	0.00	0.00	0.0%
2006	0.49	0.38	23.3%	6.16	4.10	33.5%	0.62	0.54	12.7%	0.00	0.00	0.0%
2007	0.48	0.37	23.1%	5.87	3.91	33.3%	0.61	0.53	12.2%	0.00	0.00	0.0%
2008	0.47	0.36	23.0%	5.63	3.76	33.1%	0.60	0.53	11.9%	0.00	0.00	0.0%
2009	0.46	0.36	22.9%	5.45	3.66	33.0%	0.60	0.53	11.5%	0.00	0.00	0.0%
2010	0.46	0.35	22.7%	5.33	3.58	32.8%	0.60	0.53	11.2%	0.00	0.00	0.0%
2011	0.45	0.35	22.5%	5.24	3.53	32.6%	0.59	0.53	10.9%	0.00	0.00	0.0%
2012	0.45	0.35	22.3%	5.18	3.50	32.5%	0.59	0.53	10.6%	0.00	0.00	0.0%
2013	0.45	0.35	22.2%	5.13	3.47	32.4%	0.59	0.53	10.4%	0.00	0.00	0.0%
2014	0.45	0.35	22.3%	5.09	3.44	32.5%	0.59	0.53	10.4%	0.00	0.00	0.0%
2015	0.45	0.35	22.3%	5.06	3.41	32.5%	0.59	0.53	10.4%	0.00	0.00	0.0%
2016	0.44	0.34	22.3%	5.02	3.38	32.6%	0.59	0.53	10.4%	0.00	0.00	0.0%
2017	0.44	0.34	22.3%	4.98	3.36	32.6%	0.59	0.52	10.4%	0.00	0.00	0.0%
2018	0.44	0.34	22.3%	4.96	3.34	32.7%	0.59	0.52	10.4%	0.00	0.00	0.0%
2019	0.44	0.34	22.3%	4.95	3.33	32.7%	0.59	0.52	10.4%	0.00	0.00	0.0%
2020	0.44	0.34	22.3%	4.95	3.33	32.7%	0.59	0.52	10.4%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
* SB 1997 program, no free years before first inspection, annual
**
** Output file: SENS_SB1997_NEW0_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:45
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.81	21.7%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	19.9%	28.51	21.59	24.3%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.86	23.8%	26.53	19.24	27.5%	1.79	1.51	15.4%	0.00	0.00	0.0%
1987	2.23	1.64	26.5%	25.24	17.51	30.6%	1.68	1.38	17.4%	0.00	0.00	0.0%
1988	1.98	1.41	29.1%	23.44	15.78	32.7%	1.55	1.25	19.6%	0.00	0.00	0.0%
1989	1.78	1.23	31.2%	21.74	14.33	34.1%	1.46	1.14	21.6%	0.00	0.00	0.0%
1990	1.60	1.08	32.2%	19.91	13.19	33.7%	1.36	1.04	23.2%	0.00	0.00	0.0%
1991	1.49	0.99	34.0%	19.24	12.49	35.1%	1.31	0.99	24.2%	0.00	0.00	0.0%
1992	1.35	0.88	34.8%	17.78	11.53	35.1%	1.20	0.91	24.5%	0.00	0.00	0.0%
1993	1.24	0.81	34.6%	16.65	10.72	35.6%	1.13	0.86	24.4%	0.00	0.00	0.0%
1994	1.14	0.75	34.4%	15.62	9.95	36.3%	1.07	0.82	24.1%	0.00	0.00	0.0%
1995	1.05	0.69	34.4%	14.50	9.18	36.7%	1.03	0.79	23.4%	0.00	0.00	0.0%
1996	0.97	0.64	34.2%	13.45	8.48	36.9%	0.99	0.77	22.3%	0.00	0.00	0.0%
1997	0.89	0.58	34.9%	12.44	7.69	38.2%	0.97	0.75	22.3%	0.00	0.00	0.0%
1998	0.83	0.55	33.7%	11.60	7.27	37.4%	0.95	0.76	20.6%	0.00	0.00	0.0%
1999	0.77	0.52	33.1%	10.81	6.79	37.2%	0.94	0.76	19.5%	0.00	0.00	0.0%
2000	0.72	0.50	30.7%	10.04	6.40	36.3%	0.93	0.76	18.4%	0.00	0.00	0.0%
2001	0.69	0.48	30.4%	9.51	6.17	35.2%	0.93	0.76	17.6%	0.00	0.00	0.0%
2002	0.66	0.46	30.3%	9.02	5.83	35.3%	0.92	0.76	16.9%	0.00	0.00	0.0%
2003	0.63	0.45	28.7%	8.49	5.48	35.5%	0.91	0.76	16.4%	0.00	0.00	0.0%
2004	0.61	0.44	27.9%	7.97	5.12	35.8%	0.91	0.76	16.2%	0.00	0.00	0.0%
2005	0.58	0.42	27.7%	7.54	4.83	35.9%	0.90	0.76	15.9%	0.00	0.00	0.0%
2006	0.57	0.41	27.5%	7.19	4.61	35.9%	0.89	0.75	15.7%	0.00	0.00	0.0%
2007	0.55	0.40	27.1%	6.90	4.43	35.8%	0.89	0.75	15.4%	0.00	0.00	0.0%
2008	0.55	0.40	27.0%	6.73	4.33	35.7%	0.89	0.75	15.2%	0.00	0.00	0.0%
2009	0.54	0.40	26.9%	6.62	4.26	35.6%	0.89	0.75	15.0%	0.00	0.00	0.0%
2010	0.54	0.39	26.7%	6.55	4.22	35.6%	0.89	0.76	14.8%	0.00	0.00	0.0%
2011	0.54	0.39	26.5%	6.50	4.19	35.5%	0.89	0.76	14.7%	0.00	0.00	0.0%
2012	0.54	0.39	26.4%	6.46	4.17	35.4%	0.89	0.76	14.5%	0.00	0.00	0.0%
2013	0.53	0.39	26.2%	6.42	4.15	35.4%	0.89	0.76	14.4%	0.00	0.00	0.0%
2014	0.53	0.39	26.4%	6.39	4.11	35.6%	0.89	0.76	14.4%	0.00	0.00	0.0%
2015	0.53	0.39	26.4%	6.35	4.08	35.7%	0.89	0.76	14.4%	0.00	0.00	0.0%
2016	0.53	0.39	26.4%	6.31	4.06	35.7%	0.89	0.76	14.4%	0.00	0.00	0.0%
2017	0.53	0.39	26.4%	6.28	4.03	35.7%	0.89	0.76	14.4%	0.00	0.00	0.0%
2018	0.53	0.39	26.4%	6.25	4.02	35.7%	0.89	0.76	14.4%	0.00	0.00	0.0%
2019	0.53	0.39	26.4%	6.25	4.02	35.7%	0.89	0.76	14.4%	0.00	0.00	0.0%
2020	0.53	0.39	26.4%	6.25	4.02	35.7%	0.89	0.76	14.4%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, no free years before first inspection, annual
**
** Output file: SENS_SB1997_NEW0_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:45
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.2%	32.80	25.57	22.0%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.1%	31.04	23.14	25.5%	2.16	1.88	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.6%	29.25	20.93	28.5%	2.05	1.73	15.5%	0.00	0.00	0.0%
1987	2.45	1.78	27.5%	27.39	18.89	31.0%	1.97	1.61	17.9%	0.00	0.00	0.0%
1988	2.23	1.56	30.2%	25.65	17.10	33.3%	1.89	1.51	20.1%	0.00	0.00	0.0%
1989	2.04	1.37	32.7%	24.16	15.63	35.3%	1.83	1.43	22.0%	0.00	0.00	0.0%
1990	1.88	1.23	34.6%	22.93	14.43	37.0%	1.78	1.37	23.1%	0.00	0.00	0.0%
1991	1.74	1.11	36.0%	21.79	13.38	38.6%	1.73	1.32	23.6%	0.00	0.00	0.0%
1992	1.61	1.02	37.0%	20.74	12.47	39.9%	1.68	1.28	23.8%	0.00	0.00	0.0%
1993	1.50	0.94	37.6%	19.82	11.66	41.1%	1.65	1.26	23.8%	0.00	0.00	0.0%
1994	1.41	0.87	37.9%	18.91	10.95	42.1%	1.61	1.24	23.4%	0.00	0.00	0.0%
1995	1.32	0.82	38.1%	18.08	10.32	42.9%	1.59	1.22	23.0%	0.00	0.00	0.0%
1996	1.25	0.77	38.0%	17.36	9.77	43.7%	1.57	1.22	22.4%	0.00	0.00	0.0%
1997	1.19	0.74	37.9%	16.73	9.31	44.4%	1.55	1.21	21.8%	0.00	0.00	0.0%
1998	1.13	0.70	37.9%	16.16	8.91	44.9%	1.54	1.21	21.2%	0.00	0.00	0.0%
1999	1.08	0.67	38.1%	15.67	8.56	45.4%	1.53	1.21	20.6%	0.00	0.00	0.0%
2000	1.04	0.66	36.8%	15.23	8.37	45.1%	1.52	1.21	20.2%	0.00	0.00	0.0%
2001	1.00	0.63	36.7%	14.86	8.23	44.6%	1.51	1.21	19.7%	0.00	0.00	0.0%
2002	0.96	0.61	36.6%	14.55	8.03	44.8%	1.51	1.21	19.4%	0.00	0.00	0.0%
2003	0.94	0.61	35.5%	14.36	7.87	45.2%	1.50	1.21	19.1%	0.00	0.00	0.0%
2004	0.92	0.60	34.5%	14.19	7.73	45.5%	1.49	1.21	18.8%	0.00	0.00	0.0%
2005	0.90	0.59	34.3%	14.04	7.61	45.8%	1.49	1.21	18.5%	0.00	0.00	0.0%
2006	0.89	0.59	34.2%	13.95	7.54	46.0%	1.48	1.21	18.3%	0.00	0.00	0.0%
2007	0.88	0.58	34.0%	13.87	7.47	46.1%	1.48	1.21	18.1%	0.00	0.00	0.0%
2008	0.88	0.58	33.9%	13.82	7.43	46.2%	1.47	1.21	17.9%	0.00	0.00	0.0%
2009	0.88	0.58	33.8%	13.79	7.41	46.3%	1.47	1.21	17.7%	0.00	0.00	0.0%
2010	0.87	0.58	33.6%	13.78	7.40	46.3%	1.47	1.21	17.4%	0.00	0.00	0.0%
2011	0.87	0.58	33.4%	13.77	7.40	46.3%	1.47	1.22	17.2%	0.00	0.00	0.0%
2012	0.87	0.58	33.3%	13.76	7.40	46.2%	1.47	1.22	17.0%	0.00	0.00	0.0%
2013	0.87	0.58	33.1%	13.76	7.40	46.2%	1.47	1.22	16.9%	0.00	0.00	0.0%
2014	0.87	0.58	33.2%	13.75	7.37	46.4%	1.47	1.22	16.8%	0.00	0.00	0.0%
2015	0.87	0.58	33.2%	13.75	7.37	46.4%	1.47	1.22	16.8%	0.00	0.00	0.0%
2016	0.87	0.58	33.2%	13.74	7.36	46.4%	1.47	1.22	16.7%	0.00	0.00	0.0%
2017	0.87	0.58	33.2%	13.74	7.36	46.4%	1.47	1.22	16.7%	0.00	0.00	0.0%
2018	0.87	0.58	33.2%	13.74	7.36	46.4%	1.47	1.22	16.7%	0.00	0.00	0.0%
2019	0.87	0.58	33.2%	13.74	7.36	46.4%	1.47	1.22	16.7%	0.00	0.00	0.0%
2020	0.87	0.58	33.2%	13.74	7.36	46.4%	1.47	1.22	16.7%	0.00	0.00	0.0%

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** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, one year before first inspection, annual
**
**      Output file: SENS_SB1997_NEW1_ANN.OUT
**
** Date of this run:  1/15/  91
**                   12:42
**
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THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	SB 1997
Mechanic Performance:	ENHANCED
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, one year before first inspection, annual
**
** Output file: SENS_SB1997_NEW1_ANN.OUT
**
** Date of this run: 1/15/ 91
** 12:42
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.1%	28.39	23.15	18.5%	2.01	1.80	10.6%	0.00	0.00	0.0%
1985	2.53	2.04	19.2%	26.40	20.74	21.4%	1.90	1.66	12.6%	0.00	0.00	0.0%
1986	2.29	1.80	21.1%	24.48	18.55	24.2%	1.79	1.53	14.7%	0.00	0.00	0.0%
1987	2.06	1.59	22.8%	22.65	16.60	26.7%	1.69	1.41	16.7%	0.00	0.00	0.0%
1988	1.86	1.40	24.6%	20.93	14.91	28.8%	1.60	1.30	18.8%	0.00	0.00	0.0%
1989	1.68	1.23	26.5%	19.32	13.43	30.5%	1.51	1.19	20.7%	0.00	0.00	0.0%
1990	1.52	1.10	27.8%	17.93	12.24	31.7%	1.41	1.09	22.3%	0.00	0.00	0.0%
1991	1.38	0.98	28.7%	16.68	11.26	32.5%	1.31	1.00	23.5%	0.00	0.00	0.0%
1992	1.26	0.89	29.3%	15.61	10.46	32.9%	1.21	0.92	24.1%	0.00	0.00	0.0%
1993	1.16	0.81	29.6%	14.70	9.81	33.3%	1.13	0.85	24.4%	0.00	0.00	0.0%
1994	1.06	0.75	29.8%	13.82	9.15	33.8%	1.05	0.79	24.5%	0.00	0.00	0.0%
1995	0.98	0.69	29.8%	12.92	8.47	34.5%	0.98	0.74	24.2%	0.00	0.00	0.0%
1996	0.90	0.63	29.6%	12.07	7.83	35.1%	0.92	0.70	23.5%	0.00	0.00	0.0%
1997	0.83	0.59	29.2%	11.26	7.25	35.6%	0.87	0.67	22.6%	0.00	0.00	0.0%
1998	0.76	0.54	28.7%	10.48	6.72	35.9%	0.82	0.64	21.3%	0.00	0.00	0.0%
1999	0.70	0.50	27.9%	9.77	6.25	36.0%	0.78	0.62	19.9%	0.00	0.00	0.0%
2000	0.66	0.48	27.6%	9.13	5.96	34.7%	0.74	0.60	18.6%	0.00	0.00	0.0%
2001	0.62	0.45	27.2%	8.52	5.56	34.7%	0.71	0.59	17.3%	0.00	0.00	0.0%
2002	0.59	0.43	26.7%	7.98	5.23	34.4%	0.68	0.57	16.2%	0.00	0.00	0.0%
2003	0.56	0.42	24.9%	7.45	4.91	34.1%	0.66	0.56	15.1%	0.00	0.00	0.0%
2004	0.53	0.40	24.0%	6.95	4.59	33.9%	0.64	0.55	14.2%	0.00	0.00	0.0%
2005	0.51	0.39	23.5%	6.50	4.31	33.7%	0.63	0.54	13.4%	0.00	0.00	0.0%
2006	0.49	0.38	23.2%	6.16	4.10	33.5%	0.62	0.54	12.8%	0.00	0.00	0.0%
2007	0.48	0.37	23.1%	5.87	3.91	33.3%	0.61	0.53	12.4%	0.00	0.00	0.0%
2008	0.47	0.36	22.9%	5.63	3.76	33.1%	0.60	0.53	12.0%	0.00	0.00	0.0%
2009	0.46	0.36	22.8%	5.45	3.66	33.0%	0.60	0.53	11.7%	0.00	0.00	0.0%
2010	0.46	0.35	22.6%	5.33	3.58	32.8%	0.60	0.53	11.3%	0.00	0.00	0.0%
2011	0.45	0.35	22.4%	5.24	3.53	32.6%	0.59	0.53	11.0%	0.00	0.00	0.0%
2012	0.45	0.35	22.2%	5.18	3.50	32.5%	0.59	0.53	10.8%	0.00	0.00	0.0%
2013	0.45	0.35	22.1%	5.13	3.47	32.4%	0.59	0.53	10.6%	0.00	0.00	0.0%
2014	0.45	0.35	22.2%	5.09	3.44	32.5%	0.59	0.52	10.6%	0.00	0.00	0.0%
2015	0.45	0.35	22.2%	5.06	3.41	32.5%	0.59	0.52	10.6%	0.00	0.00	0.0%
2016	0.44	0.35	22.2%	5.02	3.38	32.6%	0.59	0.52	10.6%	0.00	0.00	0.0%
2017	0.44	0.34	22.2%	4.98	3.36	32.6%	0.59	0.52	10.5%	0.00	0.00	0.0%
2018	0.44	0.34	22.2%	4.96	3.34	32.7%	0.59	0.52	10.5%	0.00	0.00	0.0%
2019	0.44	0.34	22.2%	4.95	3.33	32.7%	0.59	0.52	10.5%	0.00	0.00	0.0%
2020	0.44	0.34	22.2%	4.95	3.33	32.7%	0.59	0.52	10.5%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, one year before first inspection, annual
**
** Output file: SENS_SB1997_NEW1_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:42
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.81	21.7%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	19.9%	28.51	21.59	24.3%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.86	23.8%	26.53	19.24	27.5%	1.79	1.51	15.4%	0.00	0.00	0.0%
1987	2.23	1.64	26.5%	25.24	17.51	30.6%	1.68	1.38	17.4%	0.00	0.00	0.0%
1988	1.98	1.41	29.1%	23.44	15.78	32.7%	1.55	1.25	19.6%	0.00	0.00	0.0%
1989	1.78	1.23	31.2%	21.74	14.33	34.1%	1.46	1.14	21.6%	0.00	0.00	0.0%
1990	1.60	1.08	32.2%	19.91	13.19	33.7%	1.36	1.04	23.2%	0.00	0.00	0.0%
1991	1.49	0.99	34.0%	19.24	12.49	35.1%	1.31	0.99	24.2%	0.00	0.00	0.0%
1992	1.35	0.88	34.8%	17.78	11.53	35.1%	1.20	0.91	24.5%	0.00	0.00	0.0%
1993	1.24	0.81	34.6%	16.65	10.72	35.6%	1.13	0.86	24.4%	0.00	0.00	0.0%
1994	1.14	0.75	34.4%	15.62	9.95	36.3%	1.07	0.82	24.1%	0.00	0.00	0.0%
1995	1.05	0.69	34.4%	14.50	9.18	36.7%	1.03	0.79	23.4%	0.00	0.00	0.0%
1996	0.97	0.64	34.2%	13.45	8.48	36.9%	0.99	0.77	22.3%	0.00	0.00	0.0%
1997	0.89	0.58	34.9%	12.44	7.69	38.2%	0.97	0.75	22.4%	0.00	0.00	0.0%
1998	0.83	0.55	33.7%	11.60	7.27	37.4%	0.95	0.76	20.7%	0.00	0.00	0.0%
1999	0.77	0.52	33.1%	10.81	6.79	37.1%	0.94	0.76	19.5%	0.00	0.00	0.0%
2000	0.72	0.50	30.7%	10.04	6.40	36.3%	0.93	0.76	18.5%	0.00	0.00	0.0%
2001	0.69	0.48	30.4%	9.51	6.17	35.2%	0.93	0.76	17.7%	0.00	0.00	0.0%
2002	0.66	0.46	30.2%	9.02	5.83	35.3%	0.92	0.76	17.0%	0.00	0.00	0.0%
2003	0.63	0.45	28.7%	8.49	5.48	35.5%	0.91	0.76	16.5%	0.00	0.00	0.0%
2004	0.61	0.44	27.9%	7.97	5.12	35.8%	0.91	0.76	16.3%	0.00	0.00	0.0%
2005	0.58	0.42	27.7%	7.54	4.83	35.9%	0.90	0.75	16.0%	0.00	0.00	0.0%
2006	0.57	0.41	27.4%	7.19	4.61	35.9%	0.89	0.75	15.8%	0.00	0.00	0.0%
2007	0.55	0.40	27.1%	6.90	4.43	35.8%	0.89	0.75	15.5%	0.00	0.00	0.0%
2008	0.55	0.40	27.0%	6.73	4.33	35.7%	0.89	0.75	15.3%	0.00	0.00	0.0%
2009	0.54	0.40	26.8%	6.62	4.26	35.6%	0.89	0.75	15.1%	0.00	0.00	0.0%
2010	0.54	0.40	26.7%	6.55	4.22	35.6%	0.89	0.75	14.9%	0.00	0.00	0.0%
2011	0.54	0.39	26.5%	6.50	4.19	35.5%	0.89	0.76	14.8%	0.00	0.00	0.0%
2012	0.54	0.39	26.3%	6.46	4.17	35.4%	0.89	0.76	14.6%	0.00	0.00	0.0%
2013	0.53	0.39	26.2%	6.42	4.15	35.4%	0.89	0.76	14.5%	0.00	0.00	0.0%
2014	0.53	0.39	26.3%	6.39	4.11	35.6%	0.89	0.76	14.5%	0.00	0.00	0.0%
2015	0.53	0.39	26.3%	6.35	4.08	35.7%	0.89	0.76	14.5%	0.00	0.00	0.0%
2016	0.53	0.39	26.3%	6.31	4.06	35.7%	0.89	0.76	14.5%	0.00	0.00	0.0%
2017	0.53	0.39	26.4%	6.28	4.03	35.7%	0.89	0.76	14.5%	0.00	0.00	0.0%
2018	0.53	0.39	26.4%	6.25	4.02	35.7%	0.89	0.76	14.5%	0.00	0.00	0.0%
2019	0.53	0.39	26.4%	6.25	4.02	35.7%	0.89	0.76	14.5%	0.00	0.00	0.0%
2020	0.53	0.39	26.4%	6.25	4.02	35.7%	0.89	0.76	14.5%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, one year before first inspection, annual
**
** Output file: SENS_SB1997_NEW1_ANN.OUT
**
** Date of this run: 1/15/ 91
** 12:42
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.2%	32.80	25.57	22.0%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.1%	31.04	23.14	25.5%	2.16	1.88	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.6%	29.25	20.93	28.5%	2.05	1.73	15.5%	0.00	0.00	0.0%
1987	2.45	1.78	27.5%	27.39	18.89	31.0%	1.97	1.61	17.9%	0.00	0.00	0.0%
1988	2.23	1.56	30.2%	25.65	17.10	33.3%	1.89	1.51	20.1%	0.00	0.00	0.0%
1989	2.04	1.37	32.7%	24.16	15.63	35.3%	1.83	1.43	22.0%	0.00	0.00	0.0%
1990	1.88	1.23	34.6%	22.93	14.43	37.0%	1.78	1.37	23.1%	0.00	0.00	0.0%
1991	1.74	1.11	36.0%	21.79	13.38	38.6%	1.73	1.32	23.6%	0.00	0.00	0.0%
1992	1.61	1.02	37.0%	20.74	12.47	39.8%	1.68	1.28	23.8%	0.00	0.00	0.0%
1993	1.50	0.94	37.6%	19.82	11.67	41.1%	1.65	1.26	23.8%	0.00	0.00	0.0%
1994	1.41	0.87	37.9%	18.91	10.95	42.1%	1.61	1.24	23.5%	0.00	0.00	0.0%
1995	1.32	0.82	38.0%	18.08	10.33	42.9%	1.59	1.22	23.0%	0.00	0.00	0.0%
1996	1.25	0.77	38.0%	17.36	9.78	43.7%	1.57	1.22	22.4%	0.00	0.00	0.0%
1997	1.19	0.74	37.9%	16.73	9.32	44.3%	1.55	1.21	21.8%	0.00	0.00	0.0%
1998	1.13	0.70	37.9%	16.16	8.92	44.8%	1.54	1.21	21.2%	0.00	0.00	0.0%
1999	1.08	0.67	38.1%	15.67	8.57	45.3%	1.53	1.21	20.7%	0.00	0.00	0.0%
2000	1.04	0.66	36.7%	15.23	8.38	45.0%	1.52	1.21	20.2%	0.00	0.00	0.0%
2001	1.00	0.63	36.7%	14.86	8.25	44.5%	1.51	1.21	19.8%	0.00	0.00	0.0%
2002	0.96	0.61	36.6%	14.55	8.04	44.7%	1.51	1.21	19.4%	0.00	0.00	0.0%
2003	0.94	0.61	35.5%	14.36	7.88	45.1%	1.50	1.21	19.1%	0.00	0.00	0.0%
2004	0.92	0.60	34.4%	14.19	7.75	45.4%	1.49	1.21	18.8%	0.00	0.00	0.0%
2005	0.90	0.59	34.3%	14.04	7.62	45.7%	1.49	1.21	18.6%	0.00	0.00	0.0%
2006	0.89	0.59	34.1%	13.95	7.55	45.9%	1.48	1.21	18.4%	0.00	0.00	0.0%
2007	0.88	0.58	34.0%	13.87	7.48	46.0%	1.48	1.21	18.2%	0.00	0.00	0.0%
2008	0.88	0.58	33.9%	13.82	7.44	46.1%	1.47	1.21	17.9%	0.00	0.00	0.0%
2009	0.88	0.58	33.7%	13.79	7.43	46.2%	1.47	1.21	17.7%	0.00	0.00	0.0%
2010	0.87	0.58	33.5%	13.78	7.42	46.2%	1.47	1.21	17.5%	0.00	0.00	0.0%
2011	0.87	0.58	33.4%	13.77	7.41	46.2%	1.47	1.22	17.3%	0.00	0.00	0.0%
2012	0.87	0.58	33.2%	13.76	7.42	46.1%	1.47	1.22	17.1%	0.00	0.00	0.0%
2013	0.87	0.58	33.0%	13.76	7.42	46.1%	1.47	1.22	16.9%	0.00	0.00	0.0%
2014	0.87	0.58	33.1%	13.75	7.39	46.3%	1.47	1.22	16.9%	0.00	0.00	0.0%
2015	0.87	0.58	33.1%	13.75	7.38	46.3%	1.47	1.22	16.8%	0.00	0.00	0.0%
2016	0.87	0.58	33.1%	13.74	7.38	46.3%	1.47	1.22	16.8%	0.00	0.00	0.0%
2017	0.87	0.58	33.1%	13.74	7.38	46.3%	1.47	1.22	16.7%	0.00	0.00	0.0%
2018	0.87	0.58	33.1%	13.74	7.37	46.3%	1.47	1.22	16.7%	0.00	0.00	0.0%
2019	0.87	0.58	33.1%	13.74	7.37	46.3%	1.47	1.22	16.7%	0.00	0.00	0.0%
2020	0.87	0.58	33.1%	13.74	7.37	46.3%	1.47	1.22	16.7%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, two free years before first inspection, ann
**
**      Output file: SENS_SB1997_NEW2_ANN.OUT
**
** Date of this run:  1/15/  91
**                   12:49
**
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THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	SB 1997
Mechanic Performance:	ENHANCED
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	2
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, two free years before first inspection, ann
**
** Output file: SENS_SB1997_NEW2_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:49
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.1%	28.39	23.15	18.5%	2.01	1.80	10.6%	0.00	0.00	0.0%
1985	2.53	2.04	19.2%	26.40	20.74	21.4%	1.90	1.66	12.6%	0.00	0.00	0.0%
1986	2.29	1.80	21.1%	24.48	18.55	24.2%	1.79	1.53	14.7%	0.00	0.00	0.0%
1987	2.06	1.59	22.8%	22.65	16.60	26.7%	1.69	1.41	16.7%	0.00	0.00	0.0%
1988	1.86	1.40	24.6%	20.93	14.91	28.8%	1.60	1.30	18.8%	0.00	0.00	0.0%
1989	1.68	1.23	26.5%	19.32	13.43	30.5%	1.51	1.19	20.7%	0.00	0.00	0.0%
1990	1.52	1.10	27.8%	17.93	12.24	31.7%	1.41	1.09	22.3%	0.00	0.00	0.0%
1991	1.38	0.98	28.7%	16.68	11.26	32.5%	1.31	1.00	23.5%	0.00	0.00	0.0%
1992	1.26	0.89	29.3%	15.61	10.47	32.9%	1.21	0.92	24.1%	0.00	0.00	0.0%
1993	1.16	0.81	29.6%	14.70	9.81	33.3%	1.13	0.85	24.4%	0.00	0.00	0.0%
1994	1.06	0.75	29.7%	13.82	9.15	33.8%	1.05	0.79	24.5%	0.00	0.00	0.0%
1995	0.98	0.69	29.8%	12.92	8.47	34.4%	0.98	0.74	24.2%	0.00	0.00	0.0%
1996	0.90	0.63	29.5%	12.07	7.84	35.1%	0.92	0.70	23.5%	0.00	0.00	0.0%
1997	0.83	0.59	29.1%	11.26	7.26	35.5%	0.87	0.67	22.6%	0.00	0.00	0.0%
1998	0.76	0.54	28.6%	10.48	6.73	35.8%	0.82	0.64	21.4%	0.00	0.00	0.0%
1999	0.70	0.51	27.8%	9.77	6.26	35.9%	0.78	0.62	20.0%	0.00	0.00	0.0%
2000	0.66	0.48	27.5%	9.13	5.97	34.6%	0.74	0.60	18.6%	0.00	0.00	0.0%
2001	0.62	0.45	27.1%	8.52	5.57	34.6%	0.71	0.59	17.4%	0.00	0.00	0.0%
2002	0.59	0.43	26.5%	7.98	5.23	34.4%	0.68	0.57	16.3%	0.00	0.00	0.0%
2003	0.56	0.42	24.7%	7.45	4.91	34.0%	0.66	0.56	15.2%	0.00	0.00	0.0%
2004	0.53	0.41	23.8%	6.95	4.60	33.8%	0.64	0.55	14.3%	0.00	0.00	0.0%
2005	0.51	0.39	23.3%	6.50	4.31	33.7%	0.63	0.54	13.5%	0.00	0.00	0.0%
2006	0.49	0.38	23.0%	6.16	4.10	33.4%	0.62	0.54	12.9%	0.00	0.00	0.0%
2007	0.48	0.37	22.9%	5.87	3.92	33.3%	0.61	0.53	12.5%	0.00	0.00	0.0%
2008	0.47	0.36	22.7%	5.63	3.76	33.1%	0.60	0.53	12.1%	0.00	0.00	0.0%
2009	0.46	0.36	22.6%	5.45	3.66	32.9%	0.60	0.53	11.8%	0.00	0.00	0.0%
2010	0.46	0.35	22.4%	5.33	3.58	32.8%	0.60	0.53	11.4%	0.00	0.00	0.0%
2011	0.45	0.35	22.2%	5.24	3.53	32.6%	0.59	0.53	11.1%	0.00	0.00	0.0%
2012	0.45	0.35	22.0%	5.18	3.50	32.4%	0.59	0.53	10.9%	0.00	0.00	0.0%
2013	0.45	0.35	21.9%	5.13	3.47	32.3%	0.59	0.53	10.6%	0.00	0.00	0.0%
2014	0.45	0.35	22.0%	5.09	3.44	32.5%	0.59	0.52	10.7%	0.00	0.00	0.0%
2015	0.45	0.35	22.0%	5.06	3.41	32.5%	0.59	0.52	10.7%	0.00	0.00	0.0%
2016	0.44	0.35	22.0%	5.02	3.39	32.6%	0.59	0.52	10.7%	0.00	0.00	0.0%
2017	0.44	0.35	22.0%	4.98	3.36	32.6%	0.59	0.52	10.6%	0.00	0.00	0.0%
2018	0.44	0.34	22.0%	4.96	3.34	32.7%	0.59	0.52	10.6%	0.00	0.00	0.0%
2019	0.44	0.34	22.0%	4.95	3.33	32.7%	0.59	0.52	10.6%	0.00	0.00	0.0%
2020	0.44	0.34	22.0%	4.95	3.33	32.7%	0.59	0.52	10.6%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, two free years before first inspection, ann
**
** Output file: SENS_SB1997_NEW2_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:49
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.81	21.7%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	19.9%	28.51	21.59	24.3%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.86	23.8%	26.53	19.24	27.5%	1.79	1.51	15.4%	0.00	0.00	0.0%
1987	2.23	1.64	26.5%	25.24	17.51	30.6%	1.68	1.38	17.4%	0.00	0.00	0.0%
1988	1.98	1.41	29.1%	23.44	15.78	32.7%	1.55	1.25	19.6%	0.00	0.00	0.0%
1989	1.78	1.23	31.2%	21.74	14.33	34.1%	1.46	1.14	21.6%	0.00	0.00	0.0%
1990	1.60	1.08	32.2%	19.91	13.19	33.7%	1.36	1.04	23.2%	0.00	0.00	0.0%
1991	1.49	0.99	34.0%	19.24	12.49	35.1%	1.31	0.99	24.2%	0.00	0.00	0.0%
1992	1.35	0.88	34.8%	17.78	11.53	35.1%	1.20	0.91	24.5%	0.00	0.00	0.0%
1993	1.24	0.81	34.6%	16.65	10.73	35.6%	1.13	0.86	24.4%	0.00	0.00	0.0%
1994	1.14	0.75	34.4%	15.62	9.96	36.2%	1.07	0.82	24.1%	0.00	0.00	0.0%
1995	1.05	0.69	34.4%	14.50	9.19	36.6%	1.03	0.79	23.4%	0.00	0.00	0.0%
1996	0.97	0.64	34.1%	13.45	8.49	36.8%	0.99	0.77	22.3%	0.00	0.00	0.0%
1997	0.89	0.58	34.8%	12.44	7.71	38.0%	0.97	0.75	22.4%	0.00	0.00	0.0%
1998	0.83	0.55	33.6%	11.60	7.28	37.3%	0.95	0.76	20.7%	0.00	0.00	0.0%
1999	0.77	0.52	33.0%	10.81	6.81	37.0%	0.94	0.76	19.5%	0.00	0.00	0.0%
2000	0.72	0.50	30.5%	10.04	6.42	36.1%	0.93	0.76	18.5%	0.00	0.00	0.0%
2001	0.69	0.48	30.2%	9.51	6.18	35.0%	0.93	0.76	17.7%	0.00	0.00	0.0%
2002	0.66	0.46	30.0%	9.02	5.85	35.1%	0.92	0.76	17.0%	0.00	0.00	0.0%
2003	0.63	0.45	28.5%	8.49	5.50	35.3%	0.91	0.76	16.5%	0.00	0.00	0.0%
2004	0.61	0.44	27.6%	7.97	5.13	35.6%	0.91	0.76	16.3%	0.00	0.00	0.0%
2005	0.58	0.42	27.4%	7.54	4.85	35.7%	0.90	0.75	16.1%	0.00	0.00	0.0%
2006	0.57	0.41	27.2%	7.19	4.62	35.7%	0.89	0.75	15.8%	0.00	0.00	0.0%
2007	0.55	0.40	26.8%	6.90	4.45	35.6%	0.89	0.75	15.5%	0.00	0.00	0.0%
2008	0.55	0.40	26.7%	6.73	4.34	35.5%	0.89	0.75	15.3%	0.00	0.00	0.0%
2009	0.54	0.40	26.6%	6.62	4.27	35.4%	0.89	0.75	15.1%	0.00	0.00	0.0%
2010	0.54	0.40	26.4%	6.55	4.24	35.3%	0.89	0.75	15.0%	0.00	0.00	0.0%
2011	0.54	0.40	26.2%	6.50	4.21	35.3%	0.89	0.76	14.8%	0.00	0.00	0.0%
2012	0.54	0.40	26.1%	6.46	4.18	35.2%	0.89	0.76	14.6%	0.00	0.00	0.0%
2013	0.53	0.40	25.9%	6.42	4.16	35.2%	0.89	0.76	14.5%	0.00	0.00	0.0%
2014	0.53	0.39	26.0%	6.39	4.12	35.4%	0.89	0.76	14.5%	0.00	0.00	0.0%
2015	0.53	0.39	26.1%	6.35	4.10	35.5%	0.89	0.76	14.5%	0.00	0.00	0.0%
2016	0.53	0.39	26.1%	6.31	4.07	35.5%	0.89	0.76	14.5%	0.00	0.00	0.0%
2017	0.53	0.39	26.1%	6.28	4.05	35.5%	0.89	0.76	14.5%	0.00	0.00	0.0%
2018	0.53	0.39	26.1%	6.25	4.03	35.5%	0.89	0.76	14.5%	0.00	0.00	0.0%
2019	0.53	0.39	26.1%	6.25	4.03	35.5%	0.89	0.76	14.5%	0.00	0.00	0.0%
2020	0.53	0.39	26.1%	6.25	4.03	35.5%	0.89	0.76	14.5%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, two free years before first inspection, ann
**
** Output file: SENS_SB1997_NEW2_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:49
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.2%	32.80	25.57	22.0%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.1%	31.04	23.14	25.5%	2.16	1.88	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.6%	29.25	20.93	28.5%	2.05	1.73	15.5%	0.00	0.00	0.0%
1987	2.45	1.78	27.5%	27.39	18.89	31.0%	1.97	1.61	17.9%	0.00	0.00	0.0%
1988	2.23	1.56	30.2%	25.65	17.10	33.3%	1.89	1.51	20.1%	0.00	0.00	0.0%
1989	2.04	1.37	32.7%	24.16	15.63	35.3%	1.83	1.43	22.0%	0.00	0.00	0.0%
1990	1.88	1.23	34.6%	22.93	14.44	37.0%	1.78	1.37	23.1%	0.00	0.00	0.0%
1991	1.74	1.12	36.0%	21.79	13.39	38.6%	1.73	1.32	23.6%	0.00	0.00	0.0%
1992	1.61	1.02	36.9%	20.74	12.49	39.8%	1.68	1.28	23.8%	0.00	0.00	0.0%
1993	1.50	0.94	37.6%	19.82	11.69	41.0%	1.65	1.26	23.8%	0.00	0.00	0.0%
1994	1.41	0.87	37.8%	18.91	10.99	41.9%	1.61	1.24	23.4%	0.00	0.00	0.0%
1995	1.32	0.82	37.9%	18.08	10.37	42.6%	1.59	1.23	22.9%	0.00	0.00	0.0%
1996	1.25	0.78	37.8%	17.36	9.83	43.4%	1.57	1.22	22.3%	0.00	0.00	0.0%
1997	1.19	0.74	37.7%	16.73	9.38	43.9%	1.55	1.22	21.7%	0.00	0.00	0.0%
1998	1.13	0.70	37.7%	16.16	8.98	44.4%	1.54	1.21	21.1%	0.00	0.00	0.0%
1999	1.08	0.67	37.8%	15.67	8.64	44.9%	1.53	1.21	20.6%	0.00	0.00	0.0%
2000	1.04	0.66	36.4%	15.23	8.46	44.5%	1.52	1.21	20.1%	0.00	0.00	0.0%
2001	1.00	0.63	36.3%	14.86	8.32	44.0%	1.51	1.21	19.7%	0.00	0.00	0.0%
2002	0.96	0.61	36.2%	14.55	8.12	44.2%	1.51	1.21	19.3%	0.00	0.00	0.0%
2003	0.94	0.61	35.0%	14.36	7.97	44.5%	1.50	1.21	19.0%	0.00	0.00	0.0%
2004	0.92	0.61	34.0%	14.19	7.83	44.8%	1.49	1.21	18.7%	0.00	0.00	0.0%
2005	0.90	0.60	33.8%	14.04	7.71	45.1%	1.49	1.21	18.5%	0.00	0.00	0.0%
2006	0.89	0.59	33.6%	13.95	7.64	45.2%	1.48	1.21	18.3%	0.00	0.00	0.0%
2007	0.88	0.59	33.5%	13.87	7.57	45.4%	1.48	1.21	18.1%	0.00	0.00	0.0%
2008	0.88	0.59	33.4%	13.82	7.54	45.5%	1.47	1.21	17.8%	0.00	0.00	0.0%
2009	0.88	0.58	33.2%	13.79	7.52	45.5%	1.47	1.21	17.6%	0.00	0.00	0.0%
2010	0.87	0.59	33.1%	13.78	7.51	45.5%	1.47	1.21	17.4%	0.00	0.00	0.0%
2011	0.87	0.59	32.9%	13.77	7.51	45.5%	1.47	1.22	17.2%	0.00	0.00	0.0%
2012	0.87	0.59	32.7%	13.76	7.51	45.4%	1.47	1.22	17.0%	0.00	0.00	0.0%
2013	0.87	0.59	32.5%	13.76	7.51	45.4%	1.47	1.22	16.8%	0.00	0.00	0.0%
2014	0.87	0.59	32.6%	13.75	7.48	45.6%	1.47	1.22	16.8%	0.00	0.00	0.0%
2015	0.87	0.59	32.6%	13.75	7.48	45.6%	1.47	1.22	16.7%	0.00	0.00	0.0%
2016	0.87	0.59	32.6%	13.74	7.47	45.6%	1.47	1.22	16.7%	0.00	0.00	0.0%
2017	0.87	0.59	32.6%	13.74	7.47	45.6%	1.47	1.22	16.6%	0.00	0.00	0.0%
2018	0.87	0.59	32.6%	13.74	7.47	45.6%	1.47	1.22	16.6%	0.00	0.00	0.0%
2019	0.87	0.59	32.6%	13.74	7.47	45.6%	1.47	1.22	16.6%	0.00	0.00	0.0%
2020	0.87	0.59	32.6%	13.74	7.47	45.6%	1.47	1.22	16.6%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, three years before first inspection, annual
**
**      Output file: SENS_SB1997_NEW3_ANN.OUT
**
** Date of this run:  1/15/  91
**                   12:52
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	SB 1997
Mechanic Performance:	ENHANCED
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	3
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, three years before first inspection, annual
**
** Output file: SENS_SB1997_NEW3_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:52
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.1%	28.39	23.15	18.5%	2.01	1.80	10.6%	0.00	0.00	0.0%
1985	2.53	2.04	19.2%	26.40	20.74	21.4%	1.90	1.66	12.6%	0.00	0.00	0.0%
1986	2.29	1.80	21.1%	24.48	18.55	24.2%	1.79	1.53	14.7%	0.00	0.00	0.0%
1987	2.06	1.59	22.8%	22.65	16.60	26.7%	1.69	1.41	16.7%	0.00	0.00	0.0%
1988	1.86	1.40	24.6%	20.93	14.91	28.8%	1.60	1.30	18.8%	0.00	0.00	0.0%
1989	1.68	1.23	26.5%	19.32	13.43	30.5%	1.51	1.19	20.7%	0.00	0.00	0.0%
1990	1.52	1.10	27.8%	17.93	12.25	31.7%	1.41	1.09	22.3%	0.00	0.00	0.0%
1991	1.38	0.98	28.7%	16.68	11.26	32.5%	1.31	1.00	23.5%	0.00	0.00	0.0%
1992	1.26	0.89	29.3%	15.61	10.47	32.9%	1.21	0.92	24.1%	0.00	0.00	0.0%
1993	1.16	0.81	29.5%	14.70	9.82	33.2%	1.13	0.85	24.4%	0.00	0.00	0.0%
1994	1.06	0.75	29.7%	13.82	9.16	33.7%	1.05	0.79	24.5%	0.00	0.00	0.0%
1995	0.98	0.69	29.7%	12.92	8.49	34.3%	0.98	0.74	24.2%	0.00	0.00	0.0%
1996	0.90	0.64	29.4%	12.07	7.85	34.9%	0.92	0.70	23.5%	0.00	0.00	0.0%
1997	0.83	0.59	28.9%	11.26	7.28	35.4%	0.87	0.67	22.6%	0.00	0.00	0.0%
1998	0.76	0.55	28.4%	10.48	6.75	35.6%	0.82	0.64	21.4%	0.00	0.00	0.0%
1999	0.70	0.51	27.6%	9.77	6.28	35.7%	0.78	0.62	20.0%	0.00	0.00	0.0%
2000	0.66	0.48	27.2%	9.13	5.99	34.4%	0.74	0.60	18.6%	0.00	0.00	0.0%
2001	0.62	0.45	26.8%	8.52	5.59	34.4%	0.71	0.59	17.3%	0.00	0.00	0.0%
2002	0.59	0.44	26.2%	7.98	5.26	34.1%	0.68	0.57	16.2%	0.00	0.00	0.0%
2003	0.56	0.42	24.4%	7.45	4.93	33.8%	0.66	0.56	15.2%	0.00	0.00	0.0%
2004	0.53	0.41	23.4%	6.95	4.62	33.5%	0.64	0.55	14.2%	0.00	0.00	0.0%
2005	0.51	0.39	23.0%	6.50	4.33	33.4%	0.63	0.54	13.4%	0.00	0.00	0.0%
2006	0.49	0.38	22.6%	6.16	4.12	33.2%	0.62	0.54	12.9%	0.00	0.00	0.0%
2007	0.48	0.37	22.5%	5.87	3.93	33.0%	0.61	0.53	12.4%	0.00	0.00	0.0%
2008	0.47	0.36	22.3%	5.63	3.78	32.8%	0.60	0.53	12.1%	0.00	0.00	0.0%
2009	0.46	0.36	22.2%	5.45	3.67	32.7%	0.60	0.53	11.7%	0.00	0.00	0.0%
2010	0.46	0.36	22.0%	5.33	3.60	32.5%	0.60	0.53	11.4%	0.00	0.00	0.0%
2011	0.45	0.35	21.8%	5.24	3.55	32.4%	0.59	0.53	11.1%	0.00	0.00	0.0%
2012	0.45	0.35	21.7%	5.18	3.51	32.2%	0.59	0.53	10.8%	0.00	0.00	0.0%
2013	0.45	0.35	21.5%	5.13	3.49	32.1%	0.59	0.53	10.6%	0.00	0.00	0.0%
2014	0.45	0.35	21.6%	5.09	3.45	32.2%	0.59	0.52	10.7%	0.00	0.00	0.0%
2015	0.45	0.35	21.6%	5.06	3.43	32.3%	0.59	0.52	10.6%	0.00	0.00	0.0%
2016	0.44	0.35	21.6%	5.02	3.40	32.3%	0.59	0.52	10.6%	0.00	0.00	0.0%
2017	0.44	0.35	21.6%	4.98	3.37	32.4%	0.59	0.52	10.6%	0.00	0.00	0.0%
2018	0.44	0.35	21.7%	4.96	3.35	32.4%	0.59	0.52	10.6%	0.00	0.00	0.0%
2019	0.44	0.35	21.7%	4.95	3.34	32.5%	0.59	0.52	10.6%	0.00	0.00	0.0%
2020	0.44	0.35	21.7%	4.95	3.34	32.5%	0.59	0.52	10.6%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, three years before first inspection, annual
*
** Output file: SENS_SB1997_NEW3_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:52
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.81	21.7%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	19.9%	28.51	21.59	24.3%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.86	23.8%	26.53	19.24	27.5%	1.79	1.51	15.4%	0.00	0.00	0.0%
1987	2.23	1.64	26.5%	25.24	17.51	30.6%	1.68	1.38	17.4%	0.00	0.00	0.0%
1988	1.98	1.41	29.1%	23.44	15.78	32.7%	1.55	1.25	19.6%	0.00	0.00	0.0%
1989	1.78	1.23	31.2%	21.74	14.33	34.1%	1.46	1.14	21.6%	0.00	0.00	0.0%
1990	1.60	1.08	32.2%	19.91	13.19	33.7%	1.36	1.04	23.2%	0.00	0.00	0.0%
1991	1.49	0.99	34.0%	19.24	12.50	35.0%	1.31	0.99	24.2%	0.00	0.00	0.0%
1992	1.35	0.88	34.7%	17.78	11.54	35.1%	1.20	0.91	24.5%	0.00	0.00	0.0%
1993	1.24	0.81	34.5%	16.65	10.74	35.5%	1.13	0.86	24.4%	0.00	0.00	0.0%
1994	1.14	0.75	34.3%	15.62	9.98	36.1%	1.07	0.82	24.1%	0.00	0.00	0.0%
1995	1.05	0.69	34.2%	14.50	9.22	36.4%	1.03	0.79	23.3%	0.00	0.00	0.0%
1996	0.97	0.64	33.9%	13.45	8.53	36.6%	0.99	0.77	22.2%	0.00	0.00	0.0%
1997	0.89	0.58	34.6%	12.44	7.74	37.8%	0.97	0.75	22.3%	0.00	0.00	0.0%
1998	0.83	0.55	33.3%	11.60	7.31	37.0%	0.95	0.76	20.6%	0.00	0.00	0.0%
1999	0.77	0.52	32.6%	10.81	6.84	36.7%	0.94	0.76	19.4%	0.00	0.00	0.0%
2000	0.72	0.50	30.1%	10.04	6.46	35.7%	0.93	0.76	18.4%	0.00	0.00	0.0%
2001	0.69	0.48	29.8%	9.51	6.23	34.5%	0.93	0.76	17.6%	0.00	0.00	0.0%
2002	0.66	0.47	29.6%	9.02	5.90	34.6%	0.92	0.76	16.9%	0.00	0.00	0.0%
2003	0.63	0.45	28.0%	8.49	5.54	34.8%	0.91	0.76	16.4%	0.00	0.00	0.0%
2004	0.61	0.44	27.1%	7.97	5.18	35.0%	0.91	0.76	16.1%	0.00	0.00	0.0%
2005	0.58	0.43	26.9%	7.54	4.89	35.1%	0.90	0.76	15.9%	0.00	0.00	0.0%
2006	0.57	0.42	26.6%	7.19	4.67	35.1%	0.89	0.75	15.6%	0.00	0.00	0.0%
2007	0.55	0.41	26.3%	6.90	4.49	35.0%	0.89	0.75	15.4%	0.00	0.00	0.0%
2008	0.55	0.40	26.2%	6.73	4.38	35.0%	0.89	0.75	15.2%	0.00	0.00	0.0%
2009	0.54	0.40	26.1%	6.62	4.31	34.8%	0.89	0.75	15.0%	0.00	0.00	0.0%
2010	0.54	0.40	25.9%	6.55	4.27	34.8%	0.89	0.76	14.8%	0.00	0.00	0.0%
2011	0.54	0.40	25.7%	6.50	4.25	34.7%	0.89	0.76	14.6%	0.00	0.00	0.0%
2012	0.54	0.40	25.5%	6.46	4.22	34.6%	0.89	0.76	14.5%	0.00	0.00	0.0%
2013	0.53	0.40	25.3%	6.42	4.20	34.6%	0.89	0.76	14.3%	0.00	0.00	0.0%
2014	0.53	0.40	25.5%	6.39	4.16	34.8%	0.89	0.76	14.3%	0.00	0.00	0.0%
2015	0.53	0.40	25.5%	6.35	4.14	34.9%	0.89	0.76	14.3%	0.00	0.00	0.0%
2016	0.53	0.39	25.5%	6.31	4.11	34.9%	0.89	0.76	14.3%	0.00	0.00	0.0%
2017	0.53	0.39	25.5%	6.28	4.09	34.9%	0.89	0.76	14.3%	0.00	0.00	0.0%
2018	0.53	0.39	25.5%	6.25	4.07	34.9%	0.89	0.76	14.3%	0.00	0.00	0.0%
2019	0.53	0.39	25.5%	6.25	4.07	34.9%	0.89	0.76	14.3%	0.00	0.00	0.0%
2020	0.53	0.39	25.5%	6.25	4.07	34.9%	0.89	0.76	14.3%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, three years before first inspection, annual
**
** Output file: SENS_SB1997_NEW3_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:52
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.2%	32.80	25.57	22.0%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.1%	31.04	23.14	25.5%	2.16	1.88	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.6%	29.25	20.93	28.5%	2.05	1.73	15.5%	0.00	0.00	0.0%
1987	2.45	1.78	27.5%	27.39	18.89	31.0%	1.97	1.61	17.9%	0.00	0.00	0.0%
1988	2.23	1.56	30.2%	25.65	17.10	33.3%	1.89	1.51	20.1%	0.00	0.00	0.0%
1989	2.04	1.37	32.7%	24.16	15.63	35.3%	1.83	1.43	22.0%	0.00	0.00	0.0%
1990	1.88	1.23	34.6%	22.93	14.44	37.0%	1.78	1.37	23.1%	0.00	0.00	0.0%
1991	1.74	1.12	35.9%	21.79	13.40	38.5%	1.73	1.32	23.6%	0.00	0.00	0.0%
1992	1.61	1.02	36.8%	20.74	12.52	39.6%	1.68	1.28	23.7%	0.00	0.00	0.0%
1993	1.50	0.94	37.4%	19.82	11.75	40.7%	1.65	1.26	23.6%	0.00	0.00	0.0%
1994	1.41	0.88	37.5%	18.91	11.06	41.5%	1.61	1.24	23.3%	0.00	0.00	0.0%
1995	1.32	0.82	37.6%	18.08	10.46	42.1%	1.59	1.23	22.7%	0.00	0.00	0.0%
1996	1.25	0.78	37.4%	17.36	9.94	42.7%	1.57	1.22	22.1%	0.00	0.00	0.0%
1997	1.19	0.75	37.2%	16.73	9.50	43.2%	1.55	1.22	21.5%	0.00	0.00	0.0%
1998	1.13	0.71	37.1%	16.16	9.12	43.6%	1.54	1.22	20.9%	0.00	0.00	0.0%
1999	1.08	0.68	37.1%	15.67	8.79	43.9%	1.53	1.22	20.3%	0.00	0.00	0.0%
2000	1.04	0.67	35.7%	15.23	8.62	43.4%	1.52	1.22	19.8%	0.00	0.00	0.0%
2001	1.00	0.64	35.5%	14.86	8.49	42.8%	1.51	1.22	19.4%	0.00	0.00	0.0%
2002	0.96	0.62	35.3%	14.55	8.30	43.0%	1.51	1.22	19.0%	0.00	0.00	0.0%
2003	0.94	0.62	34.1%	14.36	8.15	43.2%	1.50	1.22	18.7%	0.00	0.00	0.0%
2004	0.92	0.62	33.0%	14.19	8.01	43.5%	1.49	1.22	18.4%	0.00	0.00	0.0%
2005	0.90	0.61	32.8%	14.04	7.90	43.8%	1.49	1.22	18.1%	0.00	0.00	0.0%
2006	0.89	0.60	32.6%	13.95	7.83	43.9%	1.48	1.22	17.9%	0.00	0.00	0.0%
2007	0.88	0.60	32.4%	13.87	7.77	44.0%	1.48	1.22	17.7%	0.00	0.00	0.0%
2008	0.88	0.59	32.3%	13.82	7.73	44.1%	1.47	1.22	17.5%	0.00	0.00	0.0%
2009	0.88	0.59	32.1%	13.79	7.71	44.1%	1.47	1.22	17.2%	0.00	0.00	0.0%
2010	0.87	0.60	31.9%	13.78	7.71	44.1%	1.47	1.22	17.0%	0.00	0.00	0.0%
2011	0.87	0.60	31.7%	13.77	7.71	44.0%	1.47	1.22	16.8%	0.00	0.00	0.0%
2012	0.87	0.60	31.6%	13.76	7.71	44.0%	1.47	1.22	16.6%	0.00	0.00	0.0%
2013	0.87	0.60	31.4%	13.76	7.72	43.9%	1.47	1.23	16.4%	0.00	0.00	0.0%
2014	0.87	0.60	31.5%	13.75	7.69	44.1%	1.47	1.23	16.4%	0.00	0.00	0.0%
2015	0.87	0.60	31.4%	13.75	7.69	44.1%	1.47	1.23	16.3%	0.00	0.00	0.0%
2016	0.87	0.60	31.4%	13.74	7.68	44.1%	1.47	1.23	16.3%	0.00	0.00	0.0%
2017	0.87	0.60	31.4%	13.74	7.68	44.1%	1.47	1.23	16.2%	0.00	0.00	0.0%
2018	0.87	0.60	31.4%	13.74	7.67	44.1%	1.47	1.23	16.2%	0.00	0.00	0.0%
2019	0.87	0.60	31.4%	13.74	7.67	44.1%	1.47	1.23	16.2%	0.00	0.00	0.0%
2020	0.87	0.60	31.4%	13.74	7.67	44.1%	1.47	1.23	16.2%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
 * SB 1997 program, four years before first inspection, annual
**
**      Output file: SENS_SB1997_NEW4_ANN.OUT
**
** Date of this run:  1/15/  91
**                   12:55
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	SB 1997
Mechanic Performance:	ENHANCED
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	4
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, four years before first inspection, annual
**
** Output file: SENS_SB1997_NEW4_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:55
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.1%	28.39	23.15	18.5%	2.01	1.80	10.6%	0.00	0.00	0.0%
1985	2.53	2.04	19.2%	26.40	20.74	21.4%	1.90	1.66	12.6%	0.00	0.00	0.0%
1986	2.29	1.80	21.1%	24.48	18.55	24.2%	1.79	1.53	14.7%	0.00	0.00	0.0%
1987	2.06	1.59	22.8%	22.65	16.60	26.7%	1.69	1.41	16.7%	0.00	0.00	0.0%
1988	1.86	1.40	24.6%	20.93	14.91	28.8%	1.60	1.30	18.8%	0.00	0.00	0.0%
1989	1.68	1.23	26.5%	19.32	13.43	30.5%	1.51	1.19	20.7%	0.00	0.00	0.0%
1990	1.52	1.10	27.8%	17.93	12.25	31.7%	1.41	1.09	22.3%	0.00	0.00	0.0%
1991	1.38	0.98	28.7%	16.68	11.26	32.5%	1.31	1.00	23.5%	0.00	0.00	0.0%
1992	1.26	0.89	29.3%	15.61	10.48	32.9%	1.21	0.92	24.1%	0.00	0.00	0.0%
1993	1.16	0.81	29.5%	14.70	9.83	33.1%	1.13	0.85	24.4%	0.00	0.00	0.0%
1994	1.06	0.75	29.5%	13.82	9.18	33.6%	1.05	0.79	24.4%	0.00	0.00	0.0%
1995	0.98	0.69	29.5%	12.92	8.51	34.1%	0.98	0.74	24.1%	0.00	0.00	0.0%
1996	0.90	0.64	29.2%	12.07	7.88	34.7%	0.92	0.70	23.5%	0.00	0.00	0.0%
1997	0.83	0.59	28.7%	11.26	7.31	35.1%	0.87	0.67	22.5%	0.00	0.00	0.0%
1998	0.76	0.55	28.0%	10.48	6.78	35.3%	0.82	0.65	21.3%	0.00	0.00	0.0%
1999	0.70	0.51	27.2%	9.77	6.32	35.3%	0.78	0.62	19.8%	0.00	0.00	0.0%
2000	0.66	0.48	26.8%	9.13	6.03	34.0%	0.74	0.60	18.5%	0.00	0.00	0.0%
2001	0.62	0.46	26.3%	8.52	5.63	33.9%	0.71	0.59	17.2%	0.00	0.00	0.0%
2002	0.59	0.44	25.7%	7.98	5.29	33.6%	0.68	0.57	16.1%	0.00	0.00	0.0%
2003	0.56	0.43	23.9%	7.45	4.97	33.3%	0.66	0.56	15.0%	0.00	0.00	0.0%
2004	0.53	0.41	22.9%	6.95	4.65	33.0%	0.64	0.55	14.1%	0.00	0.00	0.0%
2005	0.51	0.40	22.4%	6.50	4.37	32.9%	0.63	0.54	13.3%	0.00	0.00	0.0%
2006	0.49	0.38	22.1%	6.16	4.15	32.6%	0.62	0.54	12.7%	0.00	0.00	0.0%
2007	0.48	0.38	21.9%	5.87	3.96	32.5%	0.61	0.53	12.3%	0.00	0.00	0.0%
2008	0.47	0.37	21.8%	5.63	3.81	32.3%	0.60	0.53	11.9%	0.00	0.00	0.0%
2009	0.46	0.36	21.6%	5.45	3.70	32.2%	0.60	0.53	11.6%	0.00	0.00	0.0%
2010	0.46	0.36	21.4%	5.33	3.62	32.0%	0.60	0.53	11.3%	0.00	0.00	0.0%
2011	0.45	0.36	21.3%	5.24	3.57	31.9%	0.59	0.53	10.9%	0.00	0.00	0.0%
2012	0.45	0.36	21.1%	5.18	3.54	31.7%	0.59	0.53	10.7%	0.00	0.00	0.0%
2013	0.45	0.35	20.9%	5.13	3.51	31.6%	0.59	0.53	10.5%	0.00	0.00	0.0%
2014	0.45	0.35	21.0%	5.09	3.48	31.7%	0.59	0.53	10.5%	0.00	0.00	0.0%
2015	0.45	0.35	21.0%	5.06	3.45	31.8%	0.59	0.52	10.5%	0.00	0.00	0.0%
2016	0.44	0.35	21.0%	5.02	3.42	31.8%	0.59	0.52	10.5%	0.00	0.00	0.0%
2017	0.44	0.35	21.1%	4.98	3.39	31.9%	0.59	0.52	10.5%	0.00	0.00	0.0%
2018	0.44	0.35	21.1%	4.96	3.37	32.0%	0.59	0.52	10.4%	0.00	0.00	0.0%
2019	0.44	0.35	21.1%	4.95	3.37	32.0%	0.59	0.52	10.4%	0.00	0.00	0.0%
2020	0.44	0.35	21.1%	4.95	3.37	32.0%	0.59	0.52	10.4%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, four years before first inspection, annual
*
** Output file: SENS_SB1997_NEW4_ANN.OUT
**
** Date of this run: 1/15/ 91
** 12:55
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.81	21.7%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	19.9%	28.51	21.59	24.3%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.86	23.8%	26.53	19.24	27.5%	1.79	1.51	15.4%	0.00	0.00	0.0%
1987	2.23	1.64	26.5%	25.24	17.51	30.6%	1.68	1.38	17.4%	0.00	0.00	0.0%
1988	1.98	1.41	29.1%	23.44	15.78	32.7%	1.55	1.25	19.6%	0.00	0.00	0.0%
1989	1.78	1.23	31.2%	21.74	14.33	34.1%	1.46	1.14	21.6%	0.00	0.00	0.0%
1990	1.60	1.08	32.2%	19.91	13.19	33.7%	1.36	1.04	23.2%	0.00	0.00	0.0%
1991	1.49	0.99	34.0%	19.24	12.50	35.0%	1.31	0.99	24.2%	0.00	0.00	0.0%
1992	1.35	0.88	34.7%	17.78	11.55	35.0%	1.20	0.91	24.4%	0.00	0.00	0.0%
1993	1.24	0.82	34.4%	16.65	10.76	35.3%	1.13	0.86	24.4%	0.00	0.00	0.0%
1994	1.14	0.75	34.1%	15.62	10.01	35.9%	1.07	0.82	24.0%	0.00	0.00	0.0%
1995	1.05	0.69	34.0%	14.50	9.26	36.1%	1.03	0.79	23.2%	0.00	0.00	0.0%
1996	0.97	0.64	33.6%	13.45	8.58	36.2%	0.99	0.77	22.1%	0.00	0.00	0.0%
1997	0.89	0.59	34.1%	12.44	7.81	37.3%	0.97	0.75	22.1%	0.00	0.00	0.0%
1998	0.83	0.56	32.9%	11.60	7.37	36.5%	0.95	0.76	20.3%	0.00	0.00	0.0%
1999	0.77	0.52	32.1%	10.81	6.91	36.1%	0.94	0.76	19.1%	0.00	0.00	0.0%
2000	0.72	0.51	29.5%	10.04	6.53	35.0%	0.93	0.76	18.1%	0.00	0.00	0.0%
2001	0.69	0.49	29.0%	9.51	6.31	33.7%	0.93	0.77	17.2%	0.00	0.00	0.0%
2002	0.66	0.47	28.8%	9.02	5.98	33.7%	0.92	0.77	16.5%	0.00	0.00	0.0%
2003	0.63	0.46	27.1%	8.49	5.62	33.8%	0.91	0.77	16.0%	0.00	0.00	0.0%
2004	0.61	0.45	26.2%	7.97	5.26	34.0%	0.91	0.76	15.7%	0.00	0.00	0.0%
2005	0.58	0.43	26.0%	7.54	4.97	34.1%	0.90	0.76	15.5%	0.00	0.00	0.0%
2006	0.57	0.42	25.7%	7.19	4.74	34.1%	0.89	0.76	15.2%	0.00	0.00	0.0%
2007	0.55	0.41	25.4%	6.90	4.56	34.0%	0.89	0.76	14.9%	0.00	0.00	0.0%
2008	0.55	0.41	25.2%	6.73	4.45	33.9%	0.89	0.76	14.7%	0.00	0.00	0.0%
2009	0.54	0.41	25.1%	6.62	4.38	33.8%	0.89	0.76	14.6%	0.00	0.00	0.0%
2010	0.54	0.40	24.9%	6.55	4.35	33.7%	0.89	0.76	14.4%	0.00	0.00	0.0%
2011	0.54	0.40	24.7%	6.50	4.32	33.6%	0.89	0.76	14.2%	0.00	0.00	0.0%
2012	0.54	0.40	24.5%	6.46	4.30	33.5%	0.89	0.76	14.0%	0.00	0.00	0.0%
2013	0.53	0.40	24.3%	6.42	4.27	33.4%	0.89	0.76	13.9%	0.00	0.00	0.0%
2014	0.53	0.40	24.4%	6.39	4.24	33.6%	0.89	0.76	13.9%	0.00	0.00	0.0%
2015	0.53	0.40	24.5%	6.35	4.21	33.7%	0.89	0.76	13.9%	0.00	0.00	0.0%
2016	0.53	0.40	24.5%	6.31	4.18	33.7%	0.89	0.76	13.9%	0.00	0.00	0.0%
2017	0.53	0.40	24.5%	6.28	4.16	33.7%	0.89	0.76	13.9%	0.00	0.00	0.0%
2018	0.53	0.40	24.5%	6.25	4.14	33.7%	0.89	0.76	13.9%	0.00	0.00	0.0%
2019	0.53	0.40	24.5%	6.25	4.14	33.8%	0.89	0.76	13.9%	0.00	0.00	0.0%
2020	0.53	0.40	24.5%	6.25	4.14	33.8%	0.89	0.76	13.9%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, four years before first inspection, annual
**
** Output file: SENS_SB1997_NEW4_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:55
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.2%	32.80	25.57	22.0%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.1%	31.04	23.14	25.5%	2.16	1.88	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.6%	29.25	20.93	28.5%	2.05	1.73	15.5%	0.00	0.00	0.0%
1987	2.45	1.78	27.5%	27.39	18.89	31.0%	1.97	1.61	17.9%	0.00	0.00	0.0%
1988	2.23	1.56	30.2%	25.65	17.10	33.3%	1.89	1.51	20.1%	0.00	0.00	0.0%
1989	2.04	1.37	32.7%	24.16	15.63	35.3%	1.83	1.43	22.0%	0.00	0.00	0.0%
1990	1.88	1.23	34.6%	22.93	14.44	37.0%	1.78	1.37	23.1%	0.00	0.00	0.0%
1991	1.74	1.12	35.9%	21.79	13.43	38.4%	1.73	1.32	23.5%	0.00	0.00	0.0%
1992	1.61	1.02	36.7%	20.74	12.58	39.4%	1.68	1.29	23.6%	0.00	0.00	0.0%
1993	1.50	0.95	37.1%	19.82	11.83	40.3%	1.65	1.26	23.5%	0.00	0.00	0.0%
1994	1.41	0.88	37.1%	18.91	11.17	40.9%	1.61	1.24	23.0%	0.00	0.00	0.0%
1995	1.32	0.83	37.1%	18.08	10.60	41.4%	1.59	1.23	22.4%	0.00	0.00	0.0%
1996	1.25	0.79	36.8%	17.36	10.11	41.8%	1.57	1.23	21.7%	0.00	0.00	0.0%
1997	1.19	0.75	36.4%	16.73	9.69	42.1%	1.55	1.23	21.0%	0.00	0.00	0.0%
1998	1.13	0.72	36.2%	16.16	9.33	42.3%	1.54	1.23	20.4%	0.00	0.00	0.0%
1999	1.08	0.69	36.1%	15.67	9.02	42.4%	1.53	1.23	19.8%	0.00	0.00	0.0%
2000	1.04	0.68	34.5%	15.23	8.86	41.8%	1.52	1.23	19.2%	0.00	0.00	0.0%
2001	1.00	0.65	34.3%	14.86	8.75	41.1%	1.51	1.23	18.8%	0.00	0.00	0.0%
2002	0.96	0.63	34.0%	14.55	8.56	41.1%	1.51	1.23	18.4%	0.00	0.00	0.0%
2003	0.94	0.63	32.7%	14.36	8.42	41.3%	1.50	1.23	18.0%	0.00	0.00	0.0%
2004	0.92	0.63	31.5%	14.19	8.30	41.5%	1.49	1.23	17.7%	0.00	0.00	0.0%
2005	0.90	0.62	31.3%	14.04	8.18	41.7%	1.49	1.23	17.5%	0.00	0.00	0.0%
2006	0.89	0.61	31.1%	13.95	8.12	41.8%	1.48	1.23	17.2%	0.00	0.00	0.0%
2007	0.88	0.61	30.8%	13.87	8.06	41.9%	1.48	1.23	17.0%	0.00	0.00	0.0%
2008	0.88	0.61	30.7%	13.82	8.03	41.9%	1.47	1.23	16.8%	0.00	0.00	0.0%
2009	0.88	0.61	30.5%	13.79	8.01	41.9%	1.47	1.23	16.5%	0.00	0.00	0.0%
2010	0.87	0.61	30.3%	13.78	8.01	41.9%	1.47	1.23	16.3%	0.00	0.00	0.0%
2011	0.87	0.61	30.1%	13.77	8.01	41.8%	1.47	1.23	16.1%	0.00	0.00	0.0%
2012	0.87	0.61	29.9%	13.76	8.02	41.7%	1.47	1.24	15.9%	0.00	0.00	0.0%
2013	0.87	0.61	29.7%	13.76	8.03	41.6%	1.47	1.24	15.7%	0.00	0.00	0.0%
2014	0.87	0.61	29.7%	13.75	8.01	41.8%	1.47	1.24	15.6%	0.00	0.00	0.0%
2015	0.87	0.61	29.7%	13.75	8.00	41.8%	1.47	1.24	15.6%	0.00	0.00	0.0%
2016	0.87	0.61	29.7%	13.74	8.00	41.8%	1.47	1.24	15.5%	0.00	0.00	0.0%
2017	0.87	0.61	29.7%	13.74	7.99	41.8%	1.47	1.24	15.5%	0.00	0.00	0.0%
2018	0.87	0.61	29.7%	13.74	7.99	41.8%	1.47	1.24	15.5%	0.00	0.00	0.0%
2019	0.87	0.61	29.7%	13.74	7.99	41.8%	1.47	1.24	15.5%	0.00	0.00	0.0%
2020	0.87	0.61	29.7%	13.74	7.99	41.8%	1.47	1.24	15.5%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
 * SB 1997 program, five years before first inspection, annual
**
**      Output file: SENS_SB1997_NEW5_ANN.OUT
**
** Date of this run:  1/15/  91
**                   12:58
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	SB 1997
Mechanic Performance:	ENHANCED
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	5
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, five years before first inspection, annual
**
** Output file: SENS_SB1997_NEW5_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:58
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.1%	28.39	23.15	18.5%	2.01	1.80	10.6%	0.00	0.00	0.0%
1985	2.53	2.04	19.2%	26.40	20.74	21.4%	1.90	1.66	12.6%	0.00	0.00	0.0%
1986	2.29	1.80	21.1%	24.48	18.55	24.2%	1.79	1.53	14.7%	0.00	0.00	0.0%
1987	2.06	1.59	22.8%	22.65	16.60	26.7%	1.69	1.41	16.7%	0.00	0.00	0.0%
1988	1.86	1.40	24.6%	20.93	14.91	28.8%	1.60	1.30	18.8%	0.00	0.00	0.0%
1989	1.68	1.23	26.5%	19.32	13.43	30.5%	1.51	1.19	20.7%	0.00	0.00	0.0%
1990	1.52	1.10	27.8%	17.93	12.25	31.7%	1.41	1.09	22.3%	0.00	0.00	0.0%
1991	1.38	0.98	28.7%	16.68	11.27	32.4%	1.31	1.00	23.4%	0.00	0.00	0.0%
1992	1.26	0.89	29.2%	15.61	10.49	32.8%	1.21	0.92	24.1%	0.00	0.00	0.0%
1993	1.16	0.82	29.4%	14.70	9.85	33.0%	1.13	0.85	24.3%	0.00	0.00	0.0%
1994	1.06	0.75	29.4%	13.82	9.21	33.4%	1.05	0.79	24.4%	0.00	0.00	0.0%
1995	0.98	0.69	29.2%	12.92	8.55	33.8%	0.98	0.75	24.0%	0.00	0.00	0.0%
1996	0.90	0.64	28.8%	12.07	7.93	34.3%	0.92	0.71	23.3%	0.00	0.00	0.0%
1997	0.83	0.59	28.3%	11.26	7.36	34.6%	0.87	0.67	22.3%	0.00	0.00	0.0%
1998	0.76	0.55	27.6%	10.48	6.84	34.8%	0.82	0.65	21.1%	0.00	0.00	0.0%
1999	0.70	0.51	26.6%	9.77	6.38	34.7%	0.78	0.63	19.6%	0.00	0.00	0.0%
2000	0.66	0.49	26.2%	9.13	6.09	33.3%	0.74	0.61	18.2%	0.00	0.00	0.0%
2001	0.62	0.46	25.6%	8.52	5.69	33.2%	0.71	0.59	16.9%	0.00	0.00	0.0%
2002	0.59	0.44	24.9%	7.98	5.36	32.8%	0.68	0.58	15.8%	0.00	0.00	0.0%
2003	0.56	0.43	23.0%	7.45	5.04	32.4%	0.66	0.56	14.7%	0.00	0.00	0.0%
2004	0.53	0.42	22.0%	6.95	4.72	32.1%	0.64	0.55	13.7%	0.00	0.00	0.0%
2005	0.51	0.40	21.5%	6.50	4.43	31.9%	0.63	0.55	12.9%	0.00	0.00	0.0%
2006	0.49	0.39	21.2%	6.16	4.21	31.6%	0.62	0.54	12.3%	0.00	0.00	0.0%
2007	0.48	0.38	21.0%	5.87	4.02	31.5%	0.61	0.54	11.9%	0.00	0.00	0.0%
2008	0.47	0.37	20.8%	5.63	3.86	31.3%	0.60	0.53	11.5%	0.00	0.00	0.0%
2009	0.46	0.37	20.7%	5.45	3.75	31.2%	0.60	0.53	11.2%	0.00	0.00	0.0%
2010	0.46	0.36	20.5%	5.33	3.68	31.0%	0.60	0.53	10.9%	0.00	0.00	0.0%
2011	0.45	0.36	20.4%	5.24	3.62	30.9%	0.59	0.53	10.6%	0.00	0.00	0.0%
2012	0.45	0.36	20.2%	5.18	3.59	30.7%	0.59	0.53	10.3%	0.00	0.00	0.0%
2013	0.45	0.36	20.0%	5.13	3.57	30.6%	0.59	0.53	10.1%	0.00	0.00	0.0%
2014	0.45	0.36	20.1%	5.09	3.53	30.7%	0.59	0.53	10.1%	0.00	0.00	0.0%
2015	0.45	0.36	20.1%	5.06	3.50	30.7%	0.59	0.53	10.1%	0.00	0.00	0.0%
2016	0.44	0.35	20.1%	5.02	3.47	30.8%	0.59	0.53	10.1%	0.00	0.00	0.0%
2017	0.44	0.35	20.2%	4.98	3.44	30.9%	0.59	0.53	10.1%	0.00	0.00	0.0%
2018	0.44	0.35	20.2%	4.96	3.42	31.0%	0.59	0.53	10.1%	0.00	0.00	0.0%
2019	0.44	0.35	20.2%	4.95	3.42	31.0%	0.59	0.53	10.1%	0.00	0.00	0.0%
2020	0.44	0.35	20.2%	4.95	3.42	31.0%	0.59	0.53	10.1%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
* SB 1997 program, five years before first inspection, annual
**
** Output file: SENS_SB1997_NEW5_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:58
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.81	21.7%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	19.9%	28.51	21.59	24.3%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.86	23.8%	26.53	19.24	27.5%	1.79	1.51	15.4%	0.00	0.00	0.0%
1987	2.23	1.64	26.5%	25.24	17.51	30.6%	1.68	1.38	17.4%	0.00	0.00	0.0%
1988	1.98	1.41	29.1%	23.44	15.78	32.7%	1.55	1.25	19.6%	0.00	0.00	0.0%
1989	1.78	1.23	31.2%	21.74	14.33	34.1%	1.46	1.14	21.6%	0.00	0.00	0.0%
1990	1.60	1.08	32.2%	19.91	13.19	33.7%	1.36	1.04	23.2%	0.00	0.00	0.0%
1991	1.49	0.99	33.9%	19.24	12.51	35.0%	1.31	0.99	24.1%	0.00	0.00	0.0%
1992	1.35	0.88	34.6%	17.78	11.57	34.9%	1.20	0.91	24.4%	0.00	0.00	0.0%
1993	1.24	0.82	34.3%	16.65	10.80	35.1%	1.13	0.86	24.3%	0.00	0.00	0.0%
1994	1.14	0.76	33.9%	15.62	10.06	35.6%	1.07	0.82	23.8%	0.00	0.00	0.0%
1995	1.05	0.70	33.6%	14.50	9.32	35.7%	1.03	0.79	23.0%	0.00	0.00	0.0%
1996	0.97	0.65	33.1%	13.45	8.65	35.7%	0.99	0.77	21.8%	0.00	0.00	0.0%
1997	0.89	0.59	33.5%	12.44	7.90	36.5%	0.97	0.76	21.7%	0.00	0.00	0.0%
1998	0.83	0.56	32.3%	11.60	7.46	35.7%	0.95	0.76	20.0%	0.00	0.00	0.0%
1999	0.77	0.53	31.3%	10.81	7.01	35.1%	0.94	0.77	18.7%	0.00	0.00	0.0%
2000	0.72	0.51	28.6%	10.04	6.64	33.9%	0.93	0.77	17.6%	0.00	0.00	0.0%
2001	0.69	0.50	28.0%	9.51	6.42	32.5%	0.93	0.77	16.7%	0.00	0.00	0.0%
2002	0.66	0.48	27.6%	9.02	6.10	32.4%	0.92	0.77	15.9%	0.00	0.00	0.0%
2003	0.63	0.47	25.9%	8.49	5.75	32.3%	0.91	0.77	15.3%	0.00	0.00	0.0%
2004	0.61	0.45	24.9%	7.97	5.38	32.5%	0.91	0.77	15.1%	0.00	0.00	0.0%
2005	0.58	0.44	24.6%	7.54	5.09	32.5%	0.90	0.77	14.8%	0.00	0.00	0.0%
2006	0.57	0.43	24.3%	7.19	4.86	32.5%	0.89	0.76	14.5%	0.00	0.00	0.0%
2007	0.55	0.42	24.0%	6.90	4.67	32.3%	0.89	0.76	14.2%	0.00	0.00	0.0%
2008	0.55	0.42	23.9%	6.73	4.56	32.2%	0.89	0.76	14.1%	0.00	0.00	0.0%
2009	0.54	0.41	23.7%	6.62	4.49	32.1%	0.89	0.76	13.9%	0.00	0.00	0.0%
2010	0.54	0.41	23.5%	6.55	4.46	32.0%	0.89	0.77	13.7%	0.00	0.00	0.0%
2011	0.54	0.41	23.3%	6.50	4.43	31.9%	0.89	0.77	13.5%	0.00	0.00	0.0%
2012	0.54	0.41	23.1%	6.46	4.41	31.8%	0.89	0.77	13.3%	0.00	0.00	0.0%
2013	0.53	0.41	22.9%	6.42	4.39	31.7%	0.89	0.77	13.1%	0.00	0.00	0.0%
2014	0.53	0.41	23.0%	6.39	4.35	31.9%	0.89	0.77	13.1%	0.00	0.00	0.0%
2015	0.53	0.41	23.0%	6.35	4.32	31.9%	0.89	0.77	13.1%	0.00	0.00	0.0%
2016	0.53	0.41	23.0%	6.31	4.29	32.0%	0.89	0.77	13.1%	0.00	0.00	0.0%
2017	0.53	0.41	23.1%	6.28	4.27	32.0%	0.89	0.77	13.1%	0.00	0.00	0.0%
2018	0.53	0.41	23.1%	6.25	4.25	32.0%	0.89	0.77	13.2%	0.00	0.00	0.0%
2019	0.53	0.41	23.1%	6.25	4.25	32.0%	0.89	0.77	13.2%	0.00	0.00	0.0%
2020	0.53	0.41	23.1%	6.25	4.25	32.0%	0.89	0.77	13.2%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** SB 1997 program, five years before first inspection, annual
**
** Output file: SENS_SB1997_NEW5_ANN.OUT
**
** Date of this run: 1/15/ 91
**   12:58
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.2%	32.80	25.57	22.0%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.1%	31.04	23.14	25.5%	2.16	1.88	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.6%	29.25	20.93	28.5%	2.05	1.73	15.5%	0.00	0.00	0.0%
1987	2.45	1.78	27.5%	27.39	18.89	31.0%	1.97	1.61	17.9%	0.00	0.00	0.0%
1988	2.23	1.56	30.2%	25.65	17.10	33.3%	1.89	1.51	20.1%	0.00	0.00	0.0%
1989	2.04	1.37	32.7%	24.16	15.63	35.3%	1.83	1.43	22.0%	0.00	0.00	0.0%
1990	1.88	1.23	34.6%	22.93	14.44	37.0%	1.78	1.37	23.0%	0.00	0.00	0.0%
1991	1.74	1.12	35.8%	21.79	13.45	38.2%	1.73	1.32	23.5%	0.00	0.00	0.0%
1992	1.61	1.03	36.5%	20.74	12.64	39.0%	1.68	1.29	23.5%	0.00	0.00	0.0%
1993	1.50	0.95	36.8%	19.82	11.93	39.8%	1.65	1.26	23.2%	0.00	0.00	0.0%
1994	1.41	0.89	36.7%	18.91	11.32	40.2%	1.61	1.25	22.7%	0.00	0.00	0.0%
1995	1.32	0.84	36.4%	18.08	10.78	40.4%	1.59	1.24	22.0%	0.00	0.00	0.0%
1996	1.25	0.80	36.0%	17.36	10.32	40.6%	1.57	1.24	21.2%	0.00	0.00	0.0%
1997	1.19	0.77	35.4%	16.73	9.93	40.6%	1.55	1.23	20.5%	0.00	0.00	0.0%
1998	1.13	0.73	35.1%	16.16	9.60	40.6%	1.54	1.24	19.7%	0.00	0.00	0.0%
1999	1.08	0.70	34.9%	15.67	9.31	40.6%	1.53	1.24	19.1%	0.00	0.00	0.0%
2000	1.04	0.69	33.1%	15.23	9.17	39.8%	1.52	1.24	18.5%	0.00	0.00	0.0%
2001	1.00	0.67	32.7%	14.86	9.08	38.9%	1.51	1.24	18.0%	0.00	0.00	0.0%
2002	0.96	0.65	32.3%	14.55	8.91	38.8%	1.51	1.24	17.6%	0.00	0.00	0.0%
2003	0.94	0.65	31.0%	14.36	8.77	38.9%	1.50	1.24	17.2%	0.00	0.00	0.0%
2004	0.92	0.65	29.7%	14.19	8.66	39.0%	1.49	1.24	16.9%	0.00	0.00	0.0%
2005	0.90	0.64	29.4%	14.04	8.55	39.1%	1.49	1.24	16.6%	0.00	0.00	0.0%
2006	0.89	0.63	29.1%	13.95	8.50	39.1%	1.48	1.24	16.3%	0.00	0.00	0.0%
2007	0.88	0.63	28.8%	13.87	8.44	39.1%	1.48	1.24	16.1%	0.00	0.00	0.0%
2008	0.88	0.63	28.6%	13.82	8.41	39.1%	1.47	1.24	15.8%	0.00	0.00	0.0%
2009	0.88	0.63	28.4%	13.79	8.40	39.1%	1.47	1.24	15.6%	0.00	0.00	0.0%
2010	0.87	0.63	28.2%	13.78	8.40	39.0%	1.47	1.24	15.3%	0.00	0.00	0.0%
2011	0.87	0.63	28.0%	13.77	8.41	38.9%	1.47	1.25	15.1%	0.00	0.00	0.0%
2012	0.87	0.63	27.7%	13.76	8.42	38.8%	1.47	1.25	14.9%	0.00	0.00	0.0%
2013	0.87	0.63	27.5%	13.76	8.43	38.7%	1.47	1.25	14.7%	0.00	0.00	0.0%
2014	0.87	0.63	27.5%	13.75	8.42	38.8%	1.47	1.25	14.6%	0.00	0.00	0.0%
2015	0.87	0.63	27.5%	13.75	8.41	38.8%	1.47	1.25	14.6%	0.00	0.00	0.0%
2016	0.87	0.63	27.5%	13.74	8.40	38.9%	1.47	1.25	14.5%	0.00	0.00	0.0%
2017	0.87	0.63	27.5%	13.74	8.40	38.9%	1.47	1.25	14.5%	0.00	0.00	0.0%
2018	0.87	0.63	27.5%	13.74	8.40	38.9%	1.47	1.25	14.5%	0.00	0.00	0.0%
2019	0.87	0.63	27.5%	13.74	8.40	38.9%	1.47	1.25	14.5%	0.00	0.00	0.0%
2020	0.87	0.63	27.5%	13.74	8.40	38.9%	1.47	1.25	14.5%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, no free years before first inspection, annual
**
**      Output file: SENS_MAXEFFORT_NEW0_ANN.OUT
**
** Date of this run:  1/15/  91
**                   13:52
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	0
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, no free years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW0_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:52
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.4%	24.48	18.49	24.5%	1.79	1.53	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.2%	22.65	16.52	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.2%	20.93	14.80	29.3%	1.60	1.29	19.3%	0.00	0.00	0.0%
1989	1.68	1.22	27.2%	19.32	13.27	31.3%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.8%	17.93	12.04	32.9%	1.41	1.08	23.6%	0.00	0.00	0.0%
1991	1.38	0.96	30.1%	16.68	10.98	34.2%	1.31	0.98	25.3%	0.00	0.00	0.0%
1992	1.26	0.86	31.4%	15.61	10.12	35.2%	1.21	0.89	26.7%	0.00	0.00	0.0%
1993	1.16	0.78	32.3%	14.70	9.39	36.1%	1.13	0.81	27.8%	0.00	0.00	0.0%
1994	1.06	0.71	33.2%	13.82	8.66	37.3%	1.05	0.75	28.8%	0.00	0.00	0.0%
1995	0.98	0.64	34.1%	12.92	7.93	38.6%	0.98	0.69	29.5%	0.00	0.00	0.0%
1996	0.90	0.59	34.8%	12.07	7.25	39.9%	0.92	0.65	29.8%	0.00	0.00	0.0%
1997	0.83	0.54	35.3%	11.26	6.63	41.1%	0.87	0.61	29.9%	0.00	0.00	0.0%
1998	0.76	0.49	35.8%	10.48	6.08	42.0%	0.82	0.58	29.6%	0.00	0.00	0.0%
1999	0.70	0.45	36.2%	9.77	5.60	42.7%	0.78	0.55	29.2%	0.00	0.00	0.0%
2000	0.66	0.42	36.8%	9.13	5.31	41.9%	0.74	0.53	28.7%	0.00	0.00	0.0%
2001	0.62	0.39	37.2%	8.52	4.91	42.3%	0.71	0.51	28.2%	0.00	0.00	0.0%
2002	0.59	0.37	37.4%	7.98	4.59	42.5%	0.68	0.49	27.7%	0.00	0.00	0.0%
2003	0.56	0.36	36.3%	7.45	4.29	42.5%	0.66	0.48	27.2%	0.00	0.00	0.0%
2004	0.53	0.34	36.0%	6.95	3.99	42.6%	0.64	0.47	26.7%	0.00	0.00	0.0%
2005	0.51	0.33	36.0%	6.50	3.72	42.7%	0.63	0.46	26.2%	0.00	0.00	0.0%
2006	0.49	0.32	36.0%	6.16	3.53	42.7%	0.62	0.46	25.9%	0.00	0.00	0.0%
2007	0.48	0.31	36.1%	5.87	3.36	42.7%	0.61	0.45	25.6%	0.00	0.00	0.0%
2008	0.47	0.30	36.2%	5.63	3.23	42.7%	0.60	0.45	25.3%	0.00	0.00	0.0%
2009	0.46	0.29	36.2%	5.45	3.13	42.6%	0.60	0.45	25.1%	0.00	0.00	0.0%
2010	0.46	0.29	36.1%	5.33	3.06	42.6%	0.60	0.45	24.8%	0.00	0.00	0.0%
2011	0.45	0.29	36.1%	5.24	3.02	42.5%	0.59	0.45	24.6%	0.00	0.00	0.0%
2012	0.45	0.29	36.0%	5.18	2.98	42.4%	0.59	0.45	24.4%	0.00	0.00	0.0%
2013	0.45	0.29	36.0%	5.13	2.96	42.3%	0.59	0.45	24.3%	0.00	0.00	0.0%
2014	0.45	0.29	36.1%	5.09	2.93	42.4%	0.59	0.44	24.3%	0.00	0.00	0.0%
2015	0.45	0.28	36.1%	5.06	2.91	42.4%	0.59	0.44	24.3%	0.00	0.00	0.0%
2016	0.44	0.28	36.1%	5.02	2.89	42.5%	0.59	0.44	24.2%	0.00	0.00	0.0%
2017	0.44	0.28	36.1%	4.98	2.86	42.5%	0.59	0.44	24.2%	0.00	0.00	0.0%
2018	0.44	0.28	36.1%	4.96	2.85	42.6%	0.59	0.44	24.2%	0.00	0.00	0.0%
2019	0.44	0.28	36.1%	4.95	2.84	42.6%	0.59	0.44	24.2%	0.00	0.00	0.0%
2020	0.44	0.28	36.1%	4.95	2.84	42.6%	0.59	0.44	24.2%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, no free years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW0_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:52
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.78	21.8%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.21	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.64	26.6%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	20.0%	0.00	0.00	0.0%
1989	1.78	1.22	31.6%	21.74	14.22	34.6%	1.46	1.13	22.2%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.03	34.6%	1.36	1.03	24.3%	0.00	0.00	0.0%
1991	1.49	0.97	35.0%	19.24	12.26	36.3%	1.31	0.97	25.9%	0.00	0.00	0.0%
1992	1.35	0.86	36.3%	17.78	11.22	36.9%	1.20	0.88	27.0%	0.00	0.00	0.0%
1993	1.24	0.79	36.9%	16.65	10.32	38.0%	1.13	0.82	28.0%	0.00	0.00	0.0%
1994	1.14	0.72	37.4%	15.62	9.47	39.4%	1.07	0.76	28.8%	0.00	0.00	0.0%
1995	1.05	0.65	38.3%	14.50	8.62	40.6%	1.03	0.73	29.3%	0.00	0.00	0.0%
1996	0.97	0.59	39.0%	13.45	7.86	41.6%	0.99	0.70	29.5%	0.00	0.00	0.0%
1997	0.89	0.53	40.4%	12.44	7.05	43.3%	0.97	0.67	30.4%	0.00	0.00	0.0%
1998	0.83	0.50	40.2%	11.60	6.56	43.5%	0.95	0.67	29.8%	0.00	0.00	0.0%
1999	0.77	0.46	40.7%	10.81	6.05	44.0%	0.94	0.66	29.6%	0.00	0.00	0.0%
2000	0.72	0.44	39.3%	10.04	5.65	43.7%	0.93	0.66	29.5%	0.00	0.00	0.0%
2001	0.69	0.41	39.8%	9.51	5.40	43.3%	0.93	0.65	29.4%	0.00	0.00	0.0%
2002	0.66	0.39	40.4%	9.02	5.06	43.9%	0.92	0.65	29.4%	0.00	0.00	0.0%
2003	0.63	0.38	39.5%	8.49	4.71	44.5%	0.91	0.65	29.3%	0.00	0.00	0.0%
2004	0.61	0.37	39.0%	7.97	4.38	45.0%	0.91	0.64	29.3%	0.00	0.00	0.0%
2005	0.58	0.36	39.1%	7.54	4.12	45.4%	0.90	0.64	29.3%	0.00	0.00	0.0%
2006	0.57	0.35	39.0%	7.19	3.91	45.6%	0.89	0.63	29.2%	0.00	0.00	0.0%
2007	0.55	0.34	38.9%	6.90	3.75	45.6%	0.89	0.63	29.1%	0.00	0.00	0.0%
2008	0.55	0.33	38.9%	6.73	3.65	45.7%	0.89	0.63	29.0%	0.00	0.00	0.0%
2009	0.54	0.33	38.9%	6.62	3.59	45.7%	0.89	0.63	28.9%	0.00	0.00	0.0%
2010	0.54	0.33	38.8%	6.55	3.55	45.8%	0.89	0.63	28.9%	0.00	0.00	0.0%
2011	0.54	0.33	38.8%	6.50	3.52	45.8%	0.89	0.63	28.8%	0.00	0.00	0.0%
2012	0.54	0.33	38.7%	6.46	3.50	45.8%	0.89	0.63	28.7%	0.00	0.00	0.0%
2013	0.53	0.33	38.7%	6.42	3.48	45.9%	0.89	0.63	28.6%	0.00	0.00	0.0%
2014	0.53	0.33	38.8%	6.39	3.44	46.1%	0.89	0.63	28.7%	0.00	0.00	0.0%
2015	0.53	0.32	38.8%	6.35	3.42	46.2%	0.89	0.63	28.6%	0.00	0.00	0.0%
2016	0.53	0.32	38.8%	6.31	3.40	46.2%	0.89	0.63	28.6%	0.00	0.00	0.0%
2017	0.53	0.32	38.8%	6.28	3.38	46.1%	0.89	0.63	28.6%	0.00	0.00	0.0%
2018	0.53	0.32	38.8%	6.25	3.37	46.1%	0.89	0.63	28.6%	0.00	0.00	0.0%
2019	0.53	0.32	38.8%	6.25	3.36	46.1%	0.89	0.63	28.6%	0.00	0.00	0.0%
2020	0.53	0.32	38.8%	6.25	3.36	46.1%	0.89	0.63	28.6%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, no free years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW0_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:52
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.3%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.2%	31.04	23.07	25.7%	2.16	1.87	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.7%	29.25	20.86	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.6%	27.39	18.80	31.4%	1.97	1.61	18.2%	0.00	0.00	0.0%
1988	2.23	1.55	30.3%	25.65	16.98	33.8%	1.89	1.50	20.6%	0.00	0.00	0.0%
1989	2.04	1.37	33.0%	24.16	15.44	36.1%	1.83	1.41	22.8%	0.00	0.00	0.0%
1990	1.88	1.22	35.2%	22.93	14.12	38.4%	1.78	1.34	24.6%	0.00	0.00	0.0%
1991	1.74	1.10	37.1%	21.79	12.93	40.6%	1.73	1.28	26.0%	0.00	0.00	0.0%
1992	1.61	0.99	38.7%	20.74	11.89	42.7%	1.68	1.23	27.2%	0.00	0.00	0.0%
1993	1.50	0.90	40.0%	19.82	10.95	44.7%	1.65	1.18	28.1%	0.00	0.00	0.0%
1994	1.41	0.83	41.0%	18.91	10.11	46.5%	1.61	1.15	28.8%	0.00	0.00	0.0%
1995	1.32	0.77	41.9%	18.08	9.36	48.2%	1.59	1.12	29.2%	0.00	0.00	0.0%
1996	1.25	0.71	42.7%	17.36	8.70	49.9%	1.57	1.10	29.6%	0.00	0.00	0.0%
1997	1.19	0.67	43.4%	16.73	8.14	51.3%	1.55	1.09	29.8%	0.00	0.00	0.0%
1998	1.13	0.63	44.2%	16.16	7.66	52.6%	1.54	1.08	30.0%	0.00	0.00	0.0%
1999	1.08	0.59	45.2%	15.67	7.24	53.8%	1.53	1.07	30.1%	0.00	0.00	0.0%
2000	1.04	0.58	44.5%	15.23	7.00	54.1%	1.52	1.06	30.2%	0.00	0.00	0.0%
2001	1.00	0.55	45.1%	14.86	6.82	54.1%	1.51	1.05	30.3%	0.00	0.00	0.0%
2002	0.96	0.52	45.6%	14.55	6.57	54.8%	1.51	1.05	30.3%	0.00	0.00	0.0%
2003	0.94	0.52	44.9%	14.36	6.38	55.5%	1.50	1.04	30.4%	0.00	0.00	0.0%
2004	0.92	0.51	44.3%	14.19	6.21	56.2%	1.49	1.04	30.4%	0.00	0.00	0.0%
2005	0.90	0.50	44.6%	14.04	6.07	56.8%	1.49	1.04	30.4%	0.00	0.00	0.0%
2006	0.89	0.49	44.7%	13.95	5.98	57.2%	1.48	1.03	30.4%	0.00	0.00	0.0%
2007	0.88	0.49	44.8%	13.87	5.89	57.5%	1.48	1.03	30.4%	0.00	0.00	0.0%
2008	0.88	0.48	44.9%	13.82	5.84	57.8%	1.47	1.03	30.3%	0.00	0.00	0.0%
2009	0.88	0.48	44.9%	13.79	5.80	58.0%	1.47	1.03	30.3%	0.00	0.00	0.0%
2010	0.87	0.48	44.9%	13.78	5.77	58.1%	1.47	1.03	30.2%	0.00	0.00	0.0%
2011	0.87	0.48	44.8%	13.77	5.76	58.2%	1.47	1.03	30.1%	0.00	0.00	0.0%
2012	0.87	0.48	44.8%	13.76	5.75	58.2%	1.47	1.03	30.0%	0.00	0.00	0.0%
2013	0.87	0.48	44.7%	13.76	5.74	58.3%	1.47	1.03	29.9%	0.00	0.00	0.0%
2014	0.87	0.48	44.8%	13.75	5.71	58.4%	1.47	1.03	29.9%	0.00	0.00	0.0%
2015	0.87	0.48	44.8%	13.75	5.71	58.5%	1.47	1.03	29.9%	0.00	0.00	0.0%
2016	0.87	0.48	44.8%	13.74	5.71	58.5%	1.47	1.03	29.8%	0.00	0.00	0.0%
2017	0.87	0.48	44.8%	13.74	5.70	58.5%	1.47	1.03	29.8%	0.00	0.00	0.0%
2018	0.87	0.48	44.8%	13.74	5.70	58.5%	1.47	1.03	29.8%	0.00	0.00	0.0%
2019	0.87	0.48	44.8%	13.74	5.70	58.5%	1.47	1.03	29.8%	0.00	0.00	0.0%
2020	0.87	0.48	44.8%	13.74	5.70	58.5%	1.47	1.03	29.8%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, one year before first inspection, annual
**
**      Output file: SENS_MAXEFFORT_NEW1_ANN.OUT
**
** Date of this run:  1/15/  91
**                   13:48
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, one year before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW1_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:48
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.4%	24.48	18.49	24.5%	1.79	1.53	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.2%	22.65	16.52	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.2%	20.93	14.80	29.3%	1.60	1.29	19.3%	0.00	0.00	0.0%
1989	1.68	1.22	27.2%	19.32	13.27	31.3%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.8%	17.93	12.04	32.9%	1.41	1.08	23.6%	0.00	0.00	0.0%
1991	1.38	0.96	30.1%	16.68	10.98	34.2%	1.31	0.98	25.3%	0.00	0.00	0.0%
1992	1.26	0.86	31.3%	15.61	10.12	35.2%	1.21	0.89	26.7%	0.00	0.00	0.0%
1993	1.16	0.78	32.3%	14.70	9.39	36.1%	1.13	0.81	27.8%	0.00	0.00	0.0%
1994	1.06	0.71	33.2%	13.82	8.66	37.3%	1.05	0.75	28.8%	0.00	0.00	0.0%
1995	0.98	0.64	34.1%	12.92	7.93	38.6%	0.98	0.69	29.5%	0.00	0.00	0.0%
1996	0.90	0.59	34.8%	12.07	7.25	39.9%	0.92	0.65	29.8%	0.00	0.00	0.0%
1997	0.83	0.54	35.3%	11.26	6.63	41.1%	0.87	0.61	29.8%	0.00	0.00	0.0%
1998	0.76	0.49	35.8%	10.48	6.08	42.0%	0.82	0.58	29.6%	0.00	0.00	0.0%
1999	0.70	0.45	36.1%	9.77	5.60	42.7%	0.78	0.55	29.1%	0.00	0.00	0.0%
2000	0.66	0.42	36.7%	9.13	5.31	41.9%	0.74	0.53	28.6%	0.00	0.00	0.0%
2001	0.62	0.39	37.2%	8.52	4.91	42.3%	0.71	0.51	28.1%	0.00	0.00	0.0%
2002	0.59	0.37	37.3%	7.98	4.59	42.4%	0.68	0.49	27.6%	0.00	0.00	0.0%
2003	0.56	0.36	36.2%	7.45	4.29	42.5%	0.66	0.48	27.1%	0.00	0.00	0.0%
2004	0.53	0.34	35.9%	6.95	3.99	42.5%	0.64	0.47	26.6%	0.00	0.00	0.0%
2005	0.51	0.33	35.9%	6.50	3.73	42.7%	0.63	0.46	26.1%	0.00	0.00	0.0%
2006	0.49	0.32	35.9%	6.16	3.53	42.7%	0.62	0.46	25.8%	0.00	0.00	0.0%
2007	0.48	0.31	36.0%	5.87	3.36	42.7%	0.61	0.45	25.5%	0.00	0.00	0.0%
2008	0.47	0.30	36.0%	5.63	3.23	42.6%	0.60	0.45	25.2%	0.00	0.00	0.0%
2009	0.46	0.30	36.0%	5.45	3.13	42.6%	0.60	0.45	25.0%	0.00	0.00	0.0%
2010	0.46	0.29	36.0%	5.33	3.06	42.5%	0.60	0.45	24.7%	0.00	0.00	0.0%
2011	0.45	0.29	35.9%	5.24	3.02	42.5%	0.59	0.45	24.5%	0.00	0.00	0.0%
2012	0.45	0.29	35.8%	5.18	2.99	42.4%	0.59	0.45	24.3%	0.00	0.00	0.0%
2013	0.45	0.29	35.8%	5.13	2.96	42.3%	0.59	0.45	24.2%	0.00	0.00	0.0%
2014	0.45	0.29	35.9%	5.09	2.94	42.4%	0.59	0.44	24.2%	0.00	0.00	0.0%
2015	0.45	0.29	35.9%	5.06	2.91	42.4%	0.59	0.44	24.2%	0.00	0.00	0.0%
2016	0.44	0.28	35.9%	5.02	2.89	42.5%	0.59	0.44	24.1%	0.00	0.00	0.0%
2017	0.44	0.28	35.9%	4.98	2.86	42.5%	0.59	0.44	24.1%	0.00	0.00	0.0%
2018	0.44	0.28	35.9%	4.96	2.85	42.6%	0.59	0.44	24.1%	0.00	0.00	0.0%
2019	0.44	0.28	35.9%	4.95	2.84	42.6%	0.59	0.44	24.1%	0.00	0.00	0.0%
2020	0.44	0.28	35.9%	4.95	2.84	42.6%	0.59	0.44	24.1%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, one year before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW1_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:48
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.78	21.8%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.21	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.64	26.6%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	20.0%	0.00	0.00	0.0%
1989	1.78	1.22	31.6%	21.74	14.22	34.6%	1.46	1.13	22.2%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.03	34.6%	1.36	1.03	24.3%	0.00	0.00	0.0%
1991	1.49	0.97	35.0%	19.24	12.26	36.3%	1.31	0.97	25.9%	0.00	0.00	0.0%
1992	1.35	0.86	36.3%	17.78	11.22	36.9%	1.20	0.88	27.0%	0.00	0.00	0.0%
1993	1.24	0.79	36.9%	16.65	10.32	38.0%	1.13	0.82	28.0%	0.00	0.00	0.0%
1994	1.14	0.72	37.4%	15.62	9.47	39.4%	1.07	0.77	28.8%	0.00	0.00	0.0%
1995	1.05	0.65	38.3%	14.50	8.62	40.5%	1.03	0.73	29.3%	0.00	0.00	0.0%
1996	0.97	0.59	39.0%	13.45	7.86	41.6%	0.99	0.70	29.5%	0.00	0.00	0.0%
1997	0.89	0.53	40.4%	12.44	7.05	43.3%	0.97	0.67	30.3%	0.00	0.00	0.0%
1998	0.83	0.50	40.2%	11.60	6.56	43.5%	0.95	0.67	29.7%	0.00	0.00	0.0%
1999	0.77	0.46	40.7%	10.81	6.05	44.0%	0.94	0.66	29.6%	0.00	0.00	0.0%
2000	0.72	0.44	39.2%	10.04	5.65	43.7%	0.93	0.66	29.4%	0.00	0.00	0.0%
2001	0.69	0.41	39.8%	9.51	5.40	43.2%	0.93	0.65	29.4%	0.00	0.00	0.0%
2002	0.66	0.39	40.3%	9.02	5.06	43.9%	0.92	0.65	29.3%	0.00	0.00	0.0%
2003	0.63	0.38	39.4%	8.49	4.71	44.5%	0.91	0.65	29.2%	0.00	0.00	0.0%
2004	0.61	0.37	38.9%	7.97	4.38	45.0%	0.91	0.64	29.2%	0.00	0.00	0.0%
2005	0.58	0.36	39.0%	7.54	4.12	45.4%	0.90	0.64	29.2%	0.00	0.00	0.0%
2006	0.57	0.35	38.9%	7.19	3.92	45.5%	0.89	0.63	29.1%	0.00	0.00	0.0%
2007	0.55	0.34	38.8%	6.90	3.75	45.6%	0.89	0.63	29.0%	0.00	0.00	0.0%
2008	0.55	0.33	38.8%	6.73	3.66	45.7%	0.89	0.63	28.9%	0.00	0.00	0.0%
2009	0.54	0.33	38.8%	6.62	3.59	45.7%	0.89	0.63	28.8%	0.00	0.00	0.0%
2010	0.54	0.33	38.7%	6.55	3.55	45.7%	0.89	0.63	28.8%	0.00	0.00	0.0%
2011	0.54	0.33	38.7%	6.50	3.52	45.8%	0.89	0.63	28.7%	0.00	0.00	0.0%
2012	0.54	0.33	38.6%	6.46	3.50	45.8%	0.89	0.63	28.6%	0.00	0.00	0.0%
2013	0.53	0.33	38.6%	6.42	3.48	45.9%	0.89	0.63	28.5%	0.00	0.00	0.0%
2014	0.53	0.33	38.7%	6.39	3.44	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2015	0.53	0.33	38.7%	6.35	3.42	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2016	0.53	0.32	38.7%	6.31	3.40	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2017	0.53	0.32	38.7%	6.28	3.38	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2018	0.53	0.32	38.7%	6.25	3.37	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2019	0.53	0.32	38.7%	6.25	3.37	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2020	0.53	0.32	38.7%	6.25	3.37	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, one year before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW1_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:48
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.3%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.2%	31.04	23.07	25.7%	2.16	1.87	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.7%	29.25	20.86	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.6%	27.39	18.80	31.4%	1.97	1.61	18.2%	0.00	0.00	0.0%
1988	2.23	1.55	30.3%	25.65	16.98	33.8%	1.89	1.50	20.6%	0.00	0.00	0.0%
1989	2.04	1.37	33.0%	24.16	15.44	36.1%	1.83	1.41	22.8%	0.00	0.00	0.0%
1990	1.88	1.22	35.2%	22.93	14.12	38.4%	1.78	1.34	24.6%	0.00	0.00	0.0%
1991	1.74	1.10	37.1%	21.79	12.93	40.6%	1.73	1.28	26.0%	0.00	0.00	0.0%
1992	1.61	0.99	38.7%	20.74	11.89	42.6%	1.68	1.23	27.1%	0.00	0.00	0.0%
1993	1.50	0.90	40.0%	19.82	10.96	44.7%	1.65	1.18	28.1%	0.00	0.00	0.0%
1994	1.41	0.83	41.0%	18.91	10.11	46.5%	1.61	1.15	28.7%	0.00	0.00	0.0%
1995	1.32	0.77	41.9%	18.08	9.37	48.2%	1.59	1.13	29.2%	0.00	0.00	0.0%
1996	1.25	0.72	42.7%	17.36	8.71	49.8%	1.57	1.11	29.5%	0.00	0.00	0.0%
1997	1.19	0.67	43.4%	16.73	8.15	51.3%	1.55	1.09	29.7%	0.00	0.00	0.0%
1998	1.13	0.63	44.2%	16.16	7.67	52.5%	1.54	1.08	29.9%	0.00	0.00	0.0%
1999	1.08	0.59	45.1%	15.67	7.25	53.7%	1.53	1.07	30.0%	0.00	0.00	0.0%
2000	1.04	0.58	44.4%	15.23	7.01	54.0%	1.52	1.06	30.1%	0.00	0.00	0.0%
2001	1.00	0.55	45.0%	14.86	6.83	54.0%	1.51	1.06	30.1%	0.00	0.00	0.0%
2002	0.96	0.52	45.5%	14.55	6.59	54.7%	1.51	1.05	30.2%	0.00	0.00	0.0%
2003	0.94	0.52	44.9%	14.36	6.40	55.4%	1.50	1.05	30.2%	0.00	0.00	0.0%
2004	0.92	0.51	44.3%	14.19	6.23	56.1%	1.49	1.04	30.2%	0.00	0.00	0.0%
2005	0.90	0.50	44.5%	14.04	6.08	56.7%	1.49	1.04	30.3%	0.00	0.00	0.0%
2006	0.89	0.49	44.6%	13.95	5.99	57.1%	1.48	1.03	30.3%	0.00	0.00	0.0%
2007	0.88	0.49	44.7%	13.87	5.91	57.4%	1.48	1.03	30.2%	0.00	0.00	0.0%
2008	0.88	0.48	44.8%	13.82	5.85	57.6%	1.47	1.03	30.2%	0.00	0.00	0.0%
2009	0.88	0.48	44.8%	13.79	5.82	57.8%	1.47	1.03	30.1%	0.00	0.00	0.0%
2010	0.87	0.48	44.8%	13.78	5.79	58.0%	1.47	1.03	30.0%	0.00	0.00	0.0%
2011	0.87	0.48	44.7%	13.77	5.77	58.1%	1.47	1.03	29.9%	0.00	0.00	0.0%
2012	0.87	0.48	44.7%	13.76	5.77	58.1%	1.47	1.03	29.8%	0.00	0.00	0.0%
2013	0.87	0.48	44.6%	13.76	5.76	58.2%	1.47	1.03	29.7%	0.00	0.00	0.0%
2014	0.87	0.48	44.7%	13.75	5.73	58.3%	1.47	1.03	29.7%	0.00	0.00	0.0%
2015	0.87	0.48	44.7%	13.75	5.73	58.3%	1.47	1.03	29.7%	0.00	0.00	0.0%
2016	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%
2017	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%
2018	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%
2019	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%
2020	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%

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** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, two free years before first inspection, annual
**
**      Output file: SENS_MAXEFFORT_NEW2_ANN.OUT
**
** Date of this run:  1/15/  91
**                   13:55
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	2
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, two free years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW2_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:55
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.4%	24.48	18.49	24.5%	1.79	1.53	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.2%	22.65	16.52	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.2%	20.93	14.80	29.3%	1.60	1.29	19.3%	0.00	0.00	0.0%
1989	1.68	1.22	27.2%	19.32	13.27	31.3%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.8%	17.93	12.04	32.9%	1.41	1.08	23.6%	0.00	0.00	0.0%
1991	1.38	0.96	30.1%	16.68	10.98	34.2%	1.31	0.98	25.3%	0.00	0.00	0.0%
1992	1.26	0.86	31.3%	15.61	10.12	35.2%	1.21	0.89	26.7%	0.00	0.00	0.0%
1993	1.16	0.78	32.3%	14.70	9.39	36.1%	1.13	0.81	27.8%	0.00	0.00	0.0%
1994	1.06	0.71	33.2%	13.82	8.67	37.3%	1.05	0.75	28.8%	0.00	0.00	0.0%
1995	0.98	0.64	34.0%	12.92	7.93	38.6%	0.98	0.69	29.4%	0.00	0.00	0.0%
1996	0.90	0.59	34.7%	12.07	7.25	39.9%	0.92	0.65	29.7%	0.00	0.00	0.0%
1997	0.83	0.54	35.2%	11.26	6.64	41.0%	0.87	0.61	29.8%	0.00	0.00	0.0%
1998	0.76	0.49	35.6%	10.48	6.09	41.9%	0.82	0.58	29.5%	0.00	0.00	0.0%
1999	0.70	0.45	35.9%	9.77	5.61	42.6%	0.78	0.55	29.0%	0.00	0.00	0.0%
2000	0.66	0.42	36.5%	9.13	5.31	41.8%	0.74	0.53	28.5%	0.00	0.00	0.0%
2001	0.62	0.39	36.9%	8.52	4.92	42.2%	0.71	0.51	28.0%	0.00	0.00	0.0%
2002	0.59	0.37	37.0%	7.98	4.60	42.3%	0.68	0.50	27.5%	0.00	0.00	0.0%
2003	0.56	0.36	35.9%	7.45	4.29	42.4%	0.66	0.48	26.9%	0.00	0.00	0.0%
2004	0.53	0.34	35.5%	6.95	4.00	42.4%	0.64	0.47	26.4%	0.00	0.00	0.0%
2005	0.51	0.33	35.5%	6.50	3.73	42.6%	0.63	0.46	25.9%	0.00	0.00	0.0%
2006	0.49	0.32	35.5%	6.16	3.54	42.5%	0.62	0.46	25.6%	0.00	0.00	0.0%
2007	0.48	0.31	35.6%	5.87	3.37	42.5%	0.61	0.46	25.3%	0.00	0.00	0.0%
2008	0.47	0.30	35.6%	5.63	3.23	42.5%	0.60	0.45	25.0%	0.00	0.00	0.0%
2009	0.46	0.30	35.6%	5.45	3.14	42.5%	0.60	0.45	24.7%	0.00	0.00	0.0%
2010	0.46	0.29	35.6%	5.33	3.07	42.4%	0.60	0.45	24.5%	0.00	0.00	0.0%
2011	0.45	0.29	35.5%	5.24	3.02	42.4%	0.59	0.45	24.3%	0.00	0.00	0.0%
2012	0.45	0.29	35.4%	5.18	2.99	42.3%	0.59	0.45	24.1%	0.00	0.00	0.0%
2013	0.45	0.29	35.4%	5.13	2.97	42.2%	0.59	0.45	23.9%	0.00	0.00	0.0%
2014	0.45	0.29	35.5%	5.09	2.94	42.3%	0.59	0.45	24.0%	0.00	0.00	0.0%
2015	0.45	0.29	35.5%	5.06	2.92	42.3%	0.59	0.45	23.9%	0.00	0.00	0.0%
2016	0.44	0.29	35.5%	5.02	2.89	42.4%	0.59	0.45	23.9%	0.00	0.00	0.0%
2017	0.44	0.29	35.5%	4.98	2.87	42.4%	0.59	0.45	23.9%	0.00	0.00	0.0%
2018	0.44	0.28	35.5%	4.96	2.85	42.5%	0.59	0.45	23.8%	0.00	0.00	0.0%
2019	0.44	0.28	35.5%	4.95	2.85	42.5%	0.59	0.45	23.8%	0.00	0.00	0.0%
2020	0.44	0.28	35.5%	4.95	2.85	42.5%	0.59	0.45	23.8%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, two free years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW2_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:55
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.78	21.8%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.21	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.64	26.6%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	20.0%	0.00	0.00	0.0%
1989	1.78	1.22	31.6%	21.74	14.22	34.6%	1.46	1.13	22.2%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.03	34.6%	1.36	1.03	24.3%	0.00	0.00	0.0%
1991	1.49	0.97	35.0%	19.24	12.26	36.3%	1.31	0.97	25.9%	0.00	0.00	0.0%
1992	1.35	0.86	36.3%	17.78	11.22	36.9%	1.20	0.88	27.0%	0.00	0.00	0.0%
1993	1.24	0.79	36.8%	16.65	10.33	38.0%	1.13	0.82	28.0%	0.00	0.00	0.0%
1994	1.14	0.72	37.3%	15.62	9.47	39.3%	1.07	0.77	28.7%	0.00	0.00	0.0%
1995	1.05	0.65	38.2%	14.50	8.63	40.5%	1.03	0.73	29.2%	0.00	0.00	0.0%
1996	0.97	0.59	38.9%	13.45	7.87	41.5%	0.99	0.70	29.4%	0.00	0.00	0.0%
1997	0.89	0.53	40.2%	12.44	7.07	43.2%	0.97	0.67	30.2%	0.00	0.00	0.0%
1998	0.83	0.50	40.0%	11.60	6.57	43.4%	0.95	0.67	29.6%	0.00	0.00	0.0%
1999	0.77	0.46	40.5%	10.81	6.07	43.8%	0.94	0.66	29.4%	0.00	0.00	0.0%
2000	0.72	0.44	39.0%	10.04	5.67	43.6%	0.93	0.66	29.2%	0.00	0.00	0.0%
2001	0.69	0.42	39.5%	9.51	5.42	43.0%	0.93	0.66	29.1%	0.00	0.00	0.0%
2002	0.66	0.40	40.0%	9.02	5.08	43.7%	0.92	0.65	29.0%	0.00	0.00	0.0%
2003	0.63	0.38	39.1%	8.49	4.73	44.3%	0.91	0.65	28.9%	0.00	0.00	0.0%
2004	0.61	0.37	38.6%	7.97	4.40	44.8%	0.91	0.64	29.0%	0.00	0.00	0.0%
2005	0.58	0.36	38.6%	7.54	4.14	45.1%	0.90	0.64	29.0%	0.00	0.00	0.0%
2006	0.57	0.35	38.6%	7.19	3.93	45.3%	0.89	0.64	28.8%	0.00	0.00	0.0%
2007	0.55	0.34	38.4%	6.90	3.77	45.4%	0.89	0.63	28.7%	0.00	0.00	0.0%
2008	0.55	0.34	38.4%	6.73	3.67	45.4%	0.89	0.63	28.6%	0.00	0.00	0.0%
2009	0.54	0.33	38.4%	6.62	3.61	45.5%	0.89	0.63	28.6%	0.00	0.00	0.0%
2010	0.54	0.33	38.3%	6.55	3.57	45.5%	0.89	0.63	28.5%	0.00	0.00	0.0%
2011	0.54	0.33	38.3%	6.50	3.54	45.5%	0.89	0.64	28.4%	0.00	0.00	0.0%
2012	0.54	0.33	38.2%	6.46	3.52	45.6%	0.89	0.64	28.3%	0.00	0.00	0.0%
2013	0.53	0.33	38.2%	6.42	3.49	45.6%	0.89	0.64	28.2%	0.00	0.00	0.0%
2014	0.53	0.33	38.3%	6.39	3.46	45.8%	0.89	0.64	28.2%	0.00	0.00	0.0%
2015	0.53	0.33	38.3%	6.35	3.44	45.9%	0.89	0.64	28.2%	0.00	0.00	0.0%
2016	0.53	0.33	38.3%	6.31	3.42	45.9%	0.89	0.64	28.2%	0.00	0.00	0.0%
2017	0.53	0.33	38.3%	6.28	3.40	45.9%	0.89	0.64	28.2%	0.00	0.00	0.0%
2018	0.53	0.33	38.3%	6.25	3.39	45.8%	0.89	0.64	28.2%	0.00	0.00	0.0%
2019	0.53	0.33	38.3%	6.25	3.38	45.8%	0.89	0.64	28.2%	0.00	0.00	0.0%
2020	0.53	0.33	38.3%	6.25	3.38	45.8%	0.89	0.64	28.2%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, two free years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW2_ANN.OUT
**
** Date of this run: 1/15/ 91
** 13:55
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.3%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.2%	31.04	23.07	25.7%	2.16	1.87	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.7%	29.25	20.86	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.6%	27.39	18.80	31.4%	1.97	1.61	18.2%	0.00	0.00	0.0%
1988	2.23	1.55	30.3%	25.65	16.98	33.8%	1.89	1.50	20.6%	0.00	0.00	0.0%
1989	2.04	1.37	33.0%	24.16	15.44	36.1%	1.83	1.41	22.8%	0.00	0.00	0.0%
1990	1.88	1.22	35.2%	22.93	14.12	38.4%	1.78	1.34	24.6%	0.00	0.00	0.0%
1991	1.74	1.10	37.1%	21.79	12.94	40.6%	1.73	1.28	26.0%	0.00	0.00	0.0%
1992	1.61	0.99	38.6%	20.74	11.91	42.6%	1.68	1.23	27.1%	0.00	0.00	0.0%
1993	1.50	0.90	39.9%	19.82	10.98	44.6%	1.65	1.19	28.0%	0.00	0.00	0.0%
1994	1.41	0.83	40.9%	18.91	10.15	46.3%	1.61	1.15	28.6%	0.00	0.00	0.0%
1995	1.32	0.77	41.8%	18.08	9.42	47.9%	1.59	1.13	29.0%	0.00	0.00	0.0%
1996	1.25	0.72	42.5%	17.36	8.77	49.5%	1.57	1.11	29.3%	0.00	0.00	0.0%
1997	1.19	0.67	43.1%	16.73	8.22	50.9%	1.55	1.09	29.5%	0.00	0.00	0.0%
1998	1.13	0.63	43.9%	16.16	7.74	52.1%	1.54	1.08	29.6%	0.00	0.00	0.0%
1999	1.08	0.60	44.8%	15.67	7.33	53.2%	1.53	1.07	29.7%	0.00	0.00	0.0%
2000	1.04	0.58	44.0%	15.23	7.09	53.4%	1.52	1.07	29.7%	0.00	0.00	0.0%
2001	1.00	0.55	44.5%	14.86	6.92	53.4%	1.51	1.06	29.8%	0.00	0.00	0.0%
2002	0.96	0.53	45.0%	14.55	6.68	54.1%	1.51	1.06	29.8%	0.00	0.00	0.0%
2003	0.94	0.52	44.3%	14.36	6.49	54.8%	1.50	1.05	29.8%	0.00	0.00	0.0%
2004	0.92	0.52	43.7%	14.19	6.32	55.4%	1.49	1.05	29.8%	0.00	0.00	0.0%
2005	0.90	0.51	43.9%	14.04	6.18	56.0%	1.49	1.04	29.8%	0.00	0.00	0.0%
2006	0.89	0.50	44.0%	13.95	6.09	56.4%	1.48	1.04	29.8%	0.00	0.00	0.0%
2007	0.88	0.49	44.1%	13.87	6.01	56.7%	1.48	1.04	29.8%	0.00	0.00	0.0%
2008	0.88	0.49	44.2%	13.82	5.95	56.9%	1.47	1.03	29.7%	0.00	0.00	0.0%
2009	0.88	0.49	44.2%	13.79	5.92	57.1%	1.47	1.03	29.7%	0.00	0.00	0.0%
2010	0.87	0.49	44.1%	13.78	5.89	57.2%	1.47	1.04	29.6%	0.00	0.00	0.0%
2011	0.87	0.49	44.1%	13.77	5.88	57.3%	1.47	1.04	29.5%	0.00	0.00	0.0%
2012	0.87	0.49	44.0%	13.76	5.87	57.3%	1.47	1.04	29.4%	0.00	0.00	0.0%
2013	0.87	0.49	43.9%	13.76	5.86	57.4%	1.47	1.04	29.3%	0.00	0.00	0.0%
2014	0.87	0.49	44.0%	13.75	5.84	57.5%	1.47	1.04	29.3%	0.00	0.00	0.0%
2015	0.87	0.49	44.0%	13.75	5.83	57.6%	1.47	1.04	29.2%	0.00	0.00	0.0%
2016	0.87	0.49	44.0%	13.74	5.83	57.6%	1.47	1.04	29.2%	0.00	0.00	0.0%
2017	0.87	0.49	44.0%	13.74	5.83	57.6%	1.47	1.04	29.1%	0.00	0.00	0.0%
2018	0.87	0.49	44.0%	13.74	5.82	57.6%	1.47	1.04	29.1%	0.00	0.00	0.0%
2019	0.87	0.49	44.0%	13.74	5.82	57.6%	1.47	1.04	29.1%	0.00	0.00	0.0%
2020	0.87	0.49	44.0%	13.74	5.82	57.6%	1.47	1.04	29.1%	0.00	0.00	0.0%

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** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, three years before first inspection, annual
**
**      Output file: SENS_MAXEFFORT_NEW3_ANN.OUT
**
** Date of this run:  1/15/  91
**                   13:59
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	3
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, three years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW3_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:59
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.4%	24.48	18.49	24.5%	1.79	1.53	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.2%	22.65	16.52	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.2%	20.93	14.80	29.3%	1.60	1.29	19.3%	0.00	0.00	0.0%
1989	1.68	1.22	27.2%	19.32	13.27	31.3%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.8%	17.93	12.04	32.9%	1.41	1.08	23.6%	0.00	0.00	0.0%
1991	1.38	0.96	30.1%	16.68	10.98	34.1%	1.31	0.98	25.3%	0.00	0.00	0.0%
1992	1.26	0.86	31.3%	15.61	10.12	35.1%	1.21	0.89	26.7%	0.00	0.00	0.0%
1993	1.16	0.78	32.2%	14.70	9.40	36.1%	1.13	0.81	27.8%	0.00	0.00	0.0%
1994	1.06	0.71	33.1%	13.82	8.68	37.2%	1.05	0.75	28.7%	0.00	0.00	0.0%
1995	0.98	0.65	33.9%	12.92	7.95	38.5%	0.98	0.69	29.3%	0.00	0.00	0.0%
1996	0.90	0.59	34.5%	12.07	7.27	39.7%	0.92	0.65	29.6%	0.00	0.00	0.0%
1997	0.83	0.54	34.9%	11.26	6.66	40.8%	0.87	0.61	29.6%	0.00	0.00	0.0%
1998	0.76	0.49	35.3%	10.48	6.11	41.7%	0.82	0.58	29.3%	0.00	0.00	0.0%
1999	0.70	0.45	35.6%	9.77	5.63	42.3%	0.78	0.55	28.8%	0.00	0.00	0.0%
2000	0.66	0.42	36.0%	9.13	5.34	41.5%	0.74	0.53	28.3%	0.00	0.00	0.0%
2001	0.62	0.39	36.4%	8.52	4.95	41.9%	0.71	0.51	27.7%	0.00	0.00	0.0%
2002	0.59	0.38	36.5%	7.98	4.63	42.0%	0.68	0.50	27.2%	0.00	0.00	0.0%
2003	0.56	0.36	35.3%	7.45	4.32	42.0%	0.66	0.49	26.6%	0.00	0.00	0.0%
2004	0.53	0.35	34.9%	6.95	4.02	42.1%	0.64	0.47	26.1%	0.00	0.00	0.0%
2005	0.51	0.33	34.9%	6.50	3.76	42.2%	0.63	0.47	25.6%	0.00	0.00	0.0%
2006	0.49	0.32	34.9%	6.16	3.56	42.2%	0.62	0.46	25.2%	0.00	0.00	0.0%
2007	0.48	0.31	34.9%	5.87	3.39	42.2%	0.61	0.46	24.9%	0.00	0.00	0.0%
2008	0.47	0.31	34.9%	5.63	3.25	42.2%	0.60	0.45	24.6%	0.00	0.00	0.0%
2009	0.46	0.30	34.9%	5.45	3.16	42.1%	0.60	0.45	24.3%	0.00	0.00	0.0%
2010	0.46	0.30	34.9%	5.33	3.09	42.1%	0.60	0.45	24.1%	0.00	0.00	0.0%
2011	0.45	0.30	34.8%	5.24	3.04	42.0%	0.59	0.45	23.9%	0.00	0.00	0.0%
2012	0.45	0.29	34.7%	5.18	3.01	41.9%	0.59	0.45	23.7%	0.00	0.00	0.0%
2013	0.45	0.29	34.7%	5.13	2.99	41.8%	0.59	0.45	23.5%	0.00	0.00	0.0%
2014	0.45	0.29	34.7%	5.09	2.96	41.9%	0.59	0.45	23.6%	0.00	0.00	0.0%
2015	0.45	0.29	34.7%	5.06	2.94	41.9%	0.59	0.45	23.5%	0.00	0.00	0.0%
2016	0.44	0.29	34.8%	5.02	2.91	42.0%	0.59	0.45	23.5%	0.00	0.00	0.0%
2017	0.44	0.29	34.8%	4.98	2.89	42.0%	0.59	0.45	23.5%	0.00	0.00	0.0%
2018	0.44	0.29	34.8%	4.96	2.87	42.1%	0.59	0.45	23.4%	0.00	0.00	0.0%
2019	0.44	0.29	34.8%	4.95	2.86	42.1%	0.59	0.45	23.4%	0.00	0.00	0.0%
2020	0.44	0.29	34.8%	4.95	2.86	42.1%	0.59	0.45	23.4%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, three years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW3_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:59
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.78	21.8%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.21	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.64	26.6%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	20.0%	0.00	0.00	0.0%
1989	1.78	1.22	31.6%	21.74	14.22	34.6%	1.46	1.13	22.2%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.03	34.6%	1.36	1.03	24.3%	0.00	0.00	0.0%
1991	1.49	0.97	35.0%	19.24	12.26	36.3%	1.31	0.97	25.8%	0.00	0.00	0.0%
1992	1.35	0.86	36.2%	17.78	11.23	36.9%	1.20	0.88	27.0%	0.00	0.00	0.0%
1993	1.24	0.79	36.7%	16.65	10.34	37.9%	1.13	0.82	27.9%	0.00	0.00	0.0%
1994	1.14	0.72	37.2%	15.62	9.50	39.2%	1.07	0.77	28.6%	0.00	0.00	0.0%
1995	1.05	0.65	38.0%	14.50	8.66	40.3%	1.03	0.73	29.1%	0.00	0.00	0.0%
1996	0.97	0.59	38.6%	13.45	7.91	41.2%	0.99	0.70	29.1%	0.00	0.00	0.0%
1997	0.89	0.54	39.9%	12.44	7.11	42.9%	0.97	0.68	29.9%	0.00	0.00	0.0%
1998	0.83	0.50	39.7%	11.60	6.61	43.0%	0.95	0.67	29.2%	0.00	0.00	0.0%
1999	0.77	0.46	40.0%	10.81	6.11	43.4%	0.94	0.67	29.0%	0.00	0.00	0.0%
2000	0.72	0.44	38.4%	10.04	5.72	43.1%	0.93	0.66	28.8%	0.00	0.00	0.0%
2001	0.69	0.42	38.9%	9.51	5.47	42.5%	0.93	0.66	28.7%	0.00	0.00	0.0%
2002	0.66	0.40	39.3%	9.02	5.13	43.1%	0.92	0.66	28.5%	0.00	0.00	0.0%
2003	0.63	0.39	38.3%	8.49	4.79	43.6%	0.91	0.65	28.4%	0.00	0.00	0.0%
2004	0.61	0.38	37.8%	7.97	4.45	44.1%	0.91	0.65	28.4%	0.00	0.00	0.0%
2005	0.58	0.36	37.8%	7.54	4.19	44.4%	0.90	0.64	28.4%	0.00	0.00	0.0%
2006	0.57	0.35	37.7%	7.19	3.98	44.6%	0.89	0.64	28.3%	0.00	0.00	0.0%
2007	0.55	0.35	37.6%	6.90	3.82	44.7%	0.89	0.64	28.2%	0.00	0.00	0.0%
2008	0.55	0.34	37.6%	6.73	3.72	44.7%	0.89	0.64	28.1%	0.00	0.00	0.0%
2009	0.54	0.34	37.6%	6.62	3.65	44.8%	0.89	0.64	28.0%	0.00	0.00	0.0%
2010	0.54	0.34	37.5%	6.55	3.62	44.8%	0.89	0.64	27.9%	0.00	0.00	0.0%
2011	0.54	0.34	37.4%	6.50	3.59	44.8%	0.89	0.64	27.8%	0.00	0.00	0.0%
2012	0.54	0.34	37.3%	6.46	3.56	44.8%	0.89	0.64	27.7%	0.00	0.00	0.0%
2013	0.53	0.33	37.3%	6.42	3.54	44.9%	0.89	0.64	27.6%	0.00	0.00	0.0%
2014	0.53	0.33	37.4%	6.39	3.51	45.1%	0.89	0.64	27.6%	0.00	0.00	0.0%
2015	0.53	0.33	37.4%	6.35	3.48	45.1%	0.89	0.64	27.6%	0.00	0.00	0.0%
2016	0.53	0.33	37.4%	6.31	3.46	45.1%	0.89	0.64	27.6%	0.00	0.00	0.0%
2017	0.53	0.33	37.4%	6.28	3.44	45.1%	0.89	0.64	27.6%	0.00	0.00	0.0%
2018	0.53	0.33	37.4%	6.25	3.43	45.1%	0.89	0.64	27.6%	0.00	0.00	0.0%
2019	0.53	0.33	37.4%	6.25	3.43	45.1%	0.89	0.64	27.6%	0.00	0.00	0.0%
2020	0.53	0.33	37.4%	6.25	3.43	45.1%	0.89	0.64	27.6%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, three years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW3_ANN.OUT
**
** Date of this run: 1/15/ 91
**   13:59
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.3%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.2%	31.04	23.07	25.7%	2.16	1.87	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.7%	29.25	20.86	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.6%	27.39	18.80	31.4%	1.97	1.61	18.2%	0.00	0.00	0.0%
1988	2.23	1.55	30.3%	25.65	16.98	33.8%	1.89	1.50	20.6%	0.00	0.00	0.0%
1989	2.04	1.37	33.0%	24.16	15.44	36.1%	1.83	1.41	22.8%	0.00	0.00	0.0%
1990	1.88	1.22	35.2%	22.93	14.12	38.4%	1.78	1.34	24.6%	0.00	0.00	0.0%
1991	1.74	1.10	37.0%	21.79	12.96	40.5%	1.73	1.28	25.9%	0.00	0.00	0.0%
1992	1.61	0.99	38.5%	20.74	11.95	42.4%	1.68	1.23	27.0%	0.00	0.00	0.0%
1993	1.50	0.91	39.7%	19.82	11.05	44.3%	1.65	1.19	27.8%	0.00	0.00	0.0%
1994	1.41	0.84	40.5%	18.91	10.24	45.9%	1.61	1.16	28.3%	0.00	0.00	0.0%
1995	1.32	0.77	41.3%	18.08	9.52	47.3%	1.59	1.13	28.6%	0.00	0.00	0.0%
1996	1.25	0.72	42.0%	17.36	8.89	48.8%	1.57	1.12	28.9%	0.00	0.00	0.0%
1997	1.19	0.68	42.5%	16.73	8.36	50.0%	1.55	1.10	29.0%	0.00	0.00	0.0%
1998	1.13	0.64	43.1%	16.16	7.90	51.1%	1.54	1.09	29.0%	0.00	0.00	0.0%
1999	1.08	0.61	43.9%	15.67	7.50	52.1%	1.53	1.08	29.1%	0.00	0.00	0.0%
2000	1.04	0.59	43.0%	15.23	7.28	52.2%	1.52	1.08	29.1%	0.00	0.00	0.0%
2001	1.00	0.56	43.5%	14.86	7.11	52.1%	1.51	1.07	29.1%	0.00	0.00	0.0%
2002	0.96	0.54	43.9%	14.55	6.88	52.7%	1.51	1.07	29.1%	0.00	0.00	0.0%
2003	0.94	0.53	43.1%	14.36	6.70	53.4%	1.50	1.06	29.0%	0.00	0.00	0.0%
2004	0.92	0.53	42.4%	14.19	6.54	53.9%	1.49	1.06	29.0%	0.00	0.00	0.0%
2005	0.90	0.52	42.6%	14.04	6.40	54.5%	1.49	1.06	29.0%	0.00	0.00	0.0%
2006	0.89	0.51	42.6%	13.95	6.31	54.8%	1.48	1.05	29.0%	0.00	0.00	0.0%
2007	0.88	0.51	42.7%	13.87	6.23	55.1%	1.48	1.05	28.9%	0.00	0.00	0.0%
2008	0.88	0.50	42.7%	13.82	6.18	55.3%	1.47	1.05	28.9%	0.00	0.00	0.0%
2009	0.88	0.50	42.7%	13.79	6.15	55.4%	1.47	1.05	28.8%	0.00	0.00	0.0%
2010	0.87	0.50	42.7%	13.78	6.12	55.6%	1.47	1.05	28.6%	0.00	0.00	0.0%
2011	0.87	0.50	42.6%	13.77	6.11	55.6%	1.47	1.05	28.5%	0.00	0.00	0.0%
2012	0.87	0.50	42.5%	13.76	6.11	55.6%	1.47	1.05	28.5%	0.00	0.00	0.0%
2013	0.87	0.50	42.4%	13.76	6.10	55.7%	1.47	1.05	28.4%	0.00	0.00	0.0%
2014	0.87	0.50	42.5%	13.75	6.08	55.8%	1.47	1.05	28.3%	0.00	0.00	0.0%
2015	0.87	0.50	42.5%	13.75	6.07	55.8%	1.47	1.05	28.3%	0.00	0.00	0.0%
2016	0.87	0.50	42.5%	13.74	6.07	55.8%	1.47	1.05	28.2%	0.00	0.00	0.0%
2017	0.87	0.50	42.5%	13.74	6.06	55.9%	1.47	1.05	28.2%	0.00	0.00	0.0%
2018	0.87	0.50	42.5%	13.74	6.06	55.9%	1.47	1.05	28.2%	0.00	0.00	0.0%
2019	0.87	0.50	42.5%	13.74	6.06	55.9%	1.47	1.05	28.2%	0.00	0.00	0.0%
2020	0.87	0.50	42.5%	13.74	6.06	55.9%	1.47	1.05	28.2%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, four years before first inspection, annual
**
**      Output file: SENS_MAXEFFORT_NEW4_ANN.OUT
**
** Date of this run:  1/15/  91
**                   14: 2
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	4
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, four years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW4_ANN.OUT
**
** Date of this run: 1/15/ 91
**   14: 2
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.4%	24.48	18.49	24.5%	1.79	1.53	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.2%	22.65	16.52	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.2%	20.93	14.80	29.3%	1.60	1.29	19.3%	0.00	0.00	0.0%
1989	1.68	1.22	27.2%	19.32	13.27	31.3%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.8%	17.93	12.04	32.9%	1.41	1.08	23.6%	0.00	0.00	0.0%
1991	1.38	0.96	30.1%	16.68	10.99	34.1%	1.31	0.98	25.3%	0.00	0.00	0.0%
1992	1.26	0.86	31.2%	15.61	10.13	35.1%	1.21	0.89	26.6%	0.00	0.00	0.0%
1993	1.16	0.78	32.1%	14.70	9.41	35.9%	1.13	0.82	27.7%	0.00	0.00	0.0%
1994	1.06	0.71	32.9%	13.82	8.70	37.0%	1.05	0.75	28.6%	0.00	0.00	0.0%
1995	0.98	0.65	33.6%	12.92	7.98	38.2%	0.98	0.69	29.2%	0.00	0.00	0.0%
1996	0.90	0.59	34.1%	12.07	7.31	39.4%	0.92	0.65	29.4%	0.00	0.00	0.0%
1997	0.83	0.54	34.5%	11.26	6.70	40.5%	0.87	0.61	29.4%	0.00	0.00	0.0%
1998	0.76	0.50	34.8%	10.48	6.16	41.3%	0.82	0.58	29.0%	0.00	0.00	0.0%
1999	0.70	0.46	34.9%	9.77	5.68	41.8%	0.78	0.56	28.4%	0.00	0.00	0.0%
2000	0.66	0.43	35.3%	9.13	5.39	41.0%	0.74	0.54	27.8%	0.00	0.00	0.0%
2001	0.62	0.40	35.6%	8.52	5.00	41.3%	0.71	0.52	27.2%	0.00	0.00	0.0%
2002	0.59	0.38	35.6%	7.98	4.68	41.4%	0.68	0.50	26.7%	0.00	0.00	0.0%
2003	0.56	0.37	34.4%	7.45	4.37	41.4%	0.66	0.49	26.0%	0.00	0.00	0.0%
2004	0.53	0.35	34.0%	6.95	4.07	41.4%	0.64	0.48	25.5%	0.00	0.00	0.0%
2005	0.51	0.34	33.9%	6.50	3.80	41.5%	0.63	0.47	25.0%	0.00	0.00	0.0%
2006	0.49	0.33	33.8%	6.16	3.61	41.4%	0.62	0.47	24.6%	0.00	0.00	0.0%
2007	0.48	0.32	33.9%	5.87	3.44	41.4%	0.61	0.46	24.2%	0.00	0.00	0.0%
2008	0.47	0.31	33.9%	5.63	3.30	41.4%	0.60	0.46	24.0%	0.00	0.00	0.0%
2009	0.46	0.31	33.9%	5.45	3.20	41.4%	0.60	0.46	23.7%	0.00	0.00	0.0%
2010	0.46	0.30	33.8%	5.33	3.13	41.3%	0.60	0.46	23.5%	0.00	0.00	0.0%
2011	0.45	0.30	33.7%	5.24	3.08	41.3%	0.59	0.46	23.2%	0.00	0.00	0.0%
2012	0.45	0.30	33.6%	5.18	3.05	41.2%	0.59	0.45	23.0%	0.00	0.00	0.0%
2013	0.45	0.30	33.6%	5.13	3.03	41.1%	0.59	0.45	22.9%	0.00	0.00	0.0%
2014	0.45	0.30	33.6%	5.09	3.00	41.1%	0.59	0.45	22.9%	0.00	0.00	0.0%
2015	0.45	0.30	33.6%	5.06	2.97	41.2%	0.59	0.45	22.9%	0.00	0.00	0.0%
2016	0.44	0.29	33.7%	5.02	2.95	41.3%	0.59	0.45	22.8%	0.00	0.00	0.0%
2017	0.44	0.29	33.7%	4.98	2.92	41.3%	0.59	0.45	22.8%	0.00	0.00	0.0%
2018	0.44	0.29	33.7%	4.96	2.91	41.4%	0.59	0.45	22.8%	0.00	0.00	0.0%
2019	0.44	0.29	33.7%	4.95	2.90	41.4%	0.59	0.45	22.8%	0.00	0.00	0.0%
2020	0.44	0.29	33.7%	4.95	2.90	41.4%	0.59	0.45	22.8%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, four years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW4_ANN.OUT
**
** Date of this run: 1/15/ 91
**   14: 2
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.78	21.8%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.21	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.64	26.6%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	20.0%	0.00	0.00	0.0%
1989	1.78	1.22	31.6%	21.74	14.22	34.6%	1.46	1.13	22.2%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.03	34.6%	1.36	1.03	24.3%	0.00	0.00	0.0%
1991	1.49	0.97	35.0%	19.24	12.27	36.2%	1.31	0.97	25.8%	0.00	0.00	0.0%
1992	1.35	0.86	36.2%	17.78	11.24	36.8%	1.20	0.88	26.9%	0.00	0.00	0.0%
1993	1.24	0.79	36.6%	16.65	10.37	37.7%	1.13	0.82	27.7%	0.00	0.00	0.0%
1994	1.14	0.72	37.0%	15.62	9.53	38.9%	1.07	0.77	28.4%	0.00	0.00	0.0%
1995	1.05	0.66	37.6%	14.50	8.71	39.9%	1.03	0.73	28.8%	0.00	0.00	0.0%
1996	0.97	0.60	38.1%	13.45	7.97	40.8%	0.99	0.71	28.7%	0.00	0.00	0.0%
1997	0.89	0.54	39.3%	12.44	7.18	42.3%	0.97	0.68	29.4%	0.00	0.00	0.0%
1998	0.83	0.51	39.0%	11.60	6.68	42.4%	0.95	0.68	28.7%	0.00	0.00	0.0%
1999	0.77	0.47	39.2%	10.81	6.19	42.7%	0.94	0.67	28.4%	0.00	0.00	0.0%
2000	0.72	0.45	37.5%	10.04	5.80	42.2%	0.93	0.67	28.1%	0.00	0.00	0.0%
2001	0.69	0.43	37.8%	9.51	5.56	41.5%	0.93	0.67	27.9%	0.00	0.00	0.0%
2002	0.66	0.41	38.2%	9.02	5.23	42.0%	0.92	0.66	27.7%	0.00	0.00	0.0%
2003	0.63	0.40	37.1%	8.49	4.89	42.4%	0.91	0.66	27.5%	0.00	0.00	0.0%
2004	0.61	0.38	36.4%	7.97	4.55	42.9%	0.91	0.66	27.5%	0.00	0.00	0.0%
2005	0.58	0.37	36.4%	7.54	4.28	43.2%	0.90	0.65	27.4%	0.00	0.00	0.0%
2006	0.57	0.36	36.4%	7.19	4.07	43.3%	0.89	0.65	27.3%	0.00	0.00	0.0%
2007	0.55	0.35	36.2%	6.90	3.91	43.4%	0.89	0.65	27.2%	0.00	0.00	0.0%
2008	0.55	0.35	36.2%	6.73	3.81	43.4%	0.89	0.65	27.1%	0.00	0.00	0.0%
2009	0.54	0.35	36.1%	6.62	3.74	43.4%	0.89	0.65	27.0%	0.00	0.00	0.0%
2010	0.54	0.34	36.1%	6.55	3.70	43.5%	0.89	0.65	26.9%	0.00	0.00	0.0%
2011	0.54	0.34	36.0%	6.50	3.67	43.5%	0.89	0.65	26.8%	0.00	0.00	0.0%
2012	0.54	0.34	35.9%	6.46	3.65	43.5%	0.89	0.65	26.7%	0.00	0.00	0.0%
2013	0.53	0.34	35.8%	6.42	3.63	43.5%	0.89	0.65	26.6%	0.00	0.00	0.0%
2014	0.53	0.34	35.9%	6.39	3.60	43.6%	0.89	0.65	26.6%	0.00	0.00	0.0%
2015	0.53	0.34	35.9%	6.35	3.57	43.7%	0.89	0.65	26.6%	0.00	0.00	0.0%
2016	0.53	0.34	35.9%	6.31	3.55	43.7%	0.89	0.65	26.6%	0.00	0.00	0.0%
2017	0.53	0.34	35.9%	6.28	3.53	43.7%	0.89	0.65	26.6%	0.00	0.00	0.0%
2018	0.53	0.34	35.9%	6.25	3.52	43.7%	0.89	0.65	26.6%	0.00	0.00	0.0%
2019	0.53	0.34	35.9%	6.25	3.51	43.7%	0.89	0.65	26.6%	0.00	0.00	0.0%
2020	0.53	0.34	35.9%	6.25	3.51	43.7%	0.89	0.65	26.6%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, four years before first inspection, annual
**
** Output file: SENS_MAXEFFORT_NEW4_ANN.OUT
**
** Date of this run: 1/15/ 91
** 14: 2
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.3%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.2%	31.04	23.07	25.7%	2.16	1.87	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.7%	29.25	20.86	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.6%	27.39	18.80	31.4%	1.97	1.61	18.2%	0.00	0.00	0.0%
1988	2.23	1.55	30.3%	25.65	16.98	33.8%	1.89	1.50	20.6%	0.00	0.00	0.0%
1989	2.04	1.37	33.0%	24.16	15.44	36.1%	1.83	1.41	22.8%	0.00	0.00	0.0%
1990	1.88	1.22	35.2%	22.93	14.13	38.4%	1.78	1.34	24.6%	0.00	0.00	0.0%
1991	1.74	1.10	36.9%	21.79	12.99	40.4%	1.73	1.28	25.9%	0.00	0.00	0.0%
1992	1.61	1.00	38.3%	20.74	12.01	42.1%	1.68	1.23	26.8%	0.00	0.00	0.0%
1993	1.50	0.91	39.4%	19.82	11.14	43.8%	1.65	1.19	27.5%	0.00	0.00	0.0%
1994	1.41	0.84	40.1%	18.91	10.37	45.2%	1.61	1.16	27.9%	0.00	0.00	0.0%
1995	1.32	0.78	40.7%	18.08	9.68	46.4%	1.59	1.14	28.1%	0.00	0.00	0.0%
1996	1.25	0.73	41.2%	17.36	9.09	47.7%	1.57	1.13	28.2%	0.00	0.00	0.0%
1997	1.19	0.69	41.5%	16.73	8.58	48.7%	1.55	1.11	28.2%	0.00	0.00	0.0%
1998	1.13	0.66	42.0%	16.16	8.15	49.6%	1.54	1.11	28.2%	0.00	0.00	0.0%
1999	1.08	0.62	42.6%	15.67	7.77	50.4%	1.53	1.10	28.1%	0.00	0.00	0.0%
2000	1.04	0.61	41.5%	15.23	7.57	50.3%	1.52	1.09	28.0%	0.00	0.00	0.0%
2001	1.00	0.58	41.8%	14.86	7.42	50.1%	1.51	1.09	27.9%	0.00	0.00	0.0%
2002	0.96	0.55	42.1%	14.55	7.20	50.5%	1.51	1.09	27.9%	0.00	0.00	0.0%
2003	0.94	0.55	41.3%	14.36	7.02	51.1%	1.50	1.08	27.8%	0.00	0.00	0.0%
2004	0.92	0.55	40.5%	14.19	6.87	51.6%	1.49	1.08	27.8%	0.00	0.00	0.0%
2005	0.90	0.54	40.5%	14.04	6.74	52.0%	1.49	1.08	27.7%	0.00	0.00	0.0%
2006	0.89	0.53	40.5%	13.95	6.66	52.3%	1.48	1.07	27.7%	0.00	0.00	0.0%
2007	0.88	0.52	40.5%	13.87	6.58	52.5%	1.48	1.07	27.6%	0.00	0.00	0.0%
2008	0.88	0.52	40.5%	13.82	6.54	52.7%	1.47	1.07	27.5%	0.00	0.00	0.0%
2009	0.88	0.52	40.5%	13.79	6.50	52.8%	1.47	1.07	27.4%	0.00	0.00	0.0%
2010	0.87	0.52	40.4%	13.78	6.49	52.9%	1.47	1.07	27.3%	0.00	0.00	0.0%
2011	0.87	0.52	40.3%	13.77	6.48	53.0%	1.47	1.07	27.1%	0.00	0.00	0.0%
2012	0.87	0.52	40.2%	13.76	6.48	52.9%	1.47	1.07	27.0%	0.00	0.00	0.0%
2013	0.87	0.52	40.1%	13.76	6.47	52.9%	1.47	1.07	26.9%	0.00	0.00	0.0%
2014	0.87	0.52	40.1%	13.75	6.46	53.0%	1.47	1.07	26.9%	0.00	0.00	0.0%
2015	0.87	0.52	40.1%	13.75	6.45	53.1%	1.47	1.07	26.8%	0.00	0.00	0.0%
2016	0.87	0.52	40.1%	13.74	6.45	53.1%	1.47	1.07	26.8%	0.00	0.00	0.0%
2017	0.87	0.52	40.1%	13.74	6.44	53.1%	1.47	1.07	26.8%	0.00	0.00	0.0%
2018	0.87	0.52	40.1%	13.74	6.44	53.1%	1.47	1.07	26.7%	0.00	0.00	0.0%
2019	0.87	0.52	40.1%	13.74	6.44	53.1%	1.47	1.07	26.7%	0.00	0.00	0.0%
2020	0.87	0.52	40.1%	13.74	6.44	53.1%	1.47	1.07	26.7%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, five years before first inspection, ann
**
**      Output file: SENS_MAXEFFORT_NEW5_ANN.OUT
**
** Date of this run:  1/15/  91
**                   14: 6
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	5
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, five years before first inspection, ann
**
** Output file: SENS_MAXEFFORT_NEW5_ANN.OUT
**
** Date of this run: 1/15/ 91
** 14: 6
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.4%	24.48	18.49	24.5%	1.79	1.53	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.2%	22.65	16.52	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.2%	20.93	14.80	29.3%	1.60	1.29	19.3%	0.00	0.00	0.0%
1989	1.68	1.22	27.2%	19.32	13.27	31.3%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.8%	17.93	12.04	32.9%	1.41	1.08	23.6%	0.00	0.00	0.0%
1991	1.38	0.96	30.1%	16.68	10.99	34.1%	1.31	0.98	25.3%	0.00	0.00	0.0%
1992	1.26	0.87	31.2%	15.61	10.15	35.0%	1.21	0.89	26.6%	0.00	0.00	0.0%
1993	1.16	0.79	31.9%	14.70	9.44	35.8%	1.13	0.82	27.6%	0.00	0.00	0.0%
1994	1.06	0.72	32.6%	13.82	8.74	36.8%	1.05	0.75	28.4%	0.00	0.00	0.0%
1995	0.98	0.65	33.3%	12.92	8.03	37.9%	0.98	0.70	28.9%	0.00	0.00	0.0%
1996	0.90	0.60	33.7%	12.07	7.36	39.0%	0.92	0.65	29.1%	0.00	0.00	0.0%
1997	0.83	0.55	33.9%	11.26	6.77	39.9%	0.87	0.62	29.0%	0.00	0.00	0.0%
1998	0.76	0.50	34.1%	10.48	6.22	40.6%	0.82	0.59	28.6%	0.00	0.00	0.0%
1999	0.70	0.46	34.1%	9.77	5.75	41.1%	0.78	0.56	27.9%	0.00	0.00	0.0%
2000	0.66	0.43	34.3%	9.13	5.47	40.1%	0.74	0.54	27.2%	0.00	0.00	0.0%
2001	0.62	0.41	34.5%	8.52	5.08	40.4%	0.71	0.52	26.5%	0.00	0.00	0.0%
2002	0.59	0.39	34.4%	7.98	4.76	40.3%	0.68	0.51	25.9%	0.00	0.00	0.0%
2003	0.56	0.38	33.1%	7.45	4.45	40.2%	0.66	0.49	25.2%	0.00	0.00	0.0%
2004	0.53	0.36	32.6%	6.95	4.16	40.2%	0.64	0.48	24.6%	0.00	0.00	0.0%
2005	0.51	0.34	32.4%	6.50	3.88	40.3%	0.63	0.48	24.0%	0.00	0.00	0.0%
2006	0.49	0.33	32.3%	6.16	3.69	40.1%	0.62	0.47	23.6%	0.00	0.00	0.0%
2007	0.48	0.32	32.3%	5.87	3.51	40.1%	0.61	0.47	23.3%	0.00	0.00	0.0%
2008	0.47	0.32	32.3%	5.63	3.37	40.1%	0.60	0.46	23.0%	0.00	0.00	0.0%
2009	0.46	0.31	32.3%	5.45	3.27	40.1%	0.60	0.46	22.7%	0.00	0.00	0.0%
2010	0.46	0.31	32.2%	5.33	3.20	40.0%	0.60	0.46	22.5%	0.00	0.00	0.0%
2011	0.45	0.31	32.2%	5.24	3.15	39.9%	0.59	0.46	22.2%	0.00	0.00	0.0%
2012	0.45	0.31	32.1%	5.18	3.12	39.8%	0.59	0.46	22.0%	0.00	0.00	0.0%
2013	0.45	0.31	32.0%	5.13	3.10	39.7%	0.59	0.46	21.8%	0.00	0.00	0.0%
2014	0.45	0.30	32.0%	5.09	3.07	39.7%	0.59	0.46	21.8%	0.00	0.00	0.0%
2015	0.45	0.30	32.0%	5.06	3.04	39.8%	0.59	0.46	21.8%	0.00	0.00	0.0%
2016	0.44	0.30	32.0%	5.02	3.02	39.9%	0.59	0.46	21.8%	0.00	0.00	0.0%
2017	0.44	0.30	32.1%	4.98	2.99	39.9%	0.59	0.46	21.8%	0.00	0.00	0.0%
2018	0.44	0.30	32.1%	4.96	2.97	40.0%	0.59	0.46	21.7%	0.00	0.00	0.0%
2019	0.44	0.30	32.1%	4.95	2.97	40.0%	0.59	0.46	21.7%	0.00	0.00	0.0%
2020	0.44	0.30	32.1%	4.95	2.97	40.0%	0.59	0.46	21.7%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, five years before first inspection, ann
**
** Output file: SENS_MAXEFFORT_NEW5_ANN.OUT
**
** Date of this run: 1/15/ 91
**   14: 6
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.3%	30.42	23.78	21.8%	2.04	1.82	10.7%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.0%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.21	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.64	26.6%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	20.0%	0.00	0.00	0.0%
1989	1.78	1.22	31.6%	21.74	14.22	34.6%	1.46	1.13	22.2%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.03	34.5%	1.36	1.03	24.3%	0.00	0.00	0.0%
1991	1.49	0.97	34.9%	19.24	12.28	36.2%	1.31	0.97	25.8%	0.00	0.00	0.0%
1992	1.35	0.86	36.0%	17.78	11.27	36.6%	1.20	0.88	26.8%	0.00	0.00	0.0%
1993	1.24	0.79	36.4%	16.65	10.41	37.5%	1.13	0.82	27.5%	0.00	0.00	0.0%
1994	1.14	0.73	36.6%	15.62	9.59	38.6%	1.07	0.77	28.1%	0.00	0.00	0.0%
1995	1.05	0.66	37.2%	14.50	8.78	39.4%	1.03	0.74	28.3%	0.00	0.00	0.0%
1996	0.97	0.61	37.5%	13.45	8.06	40.1%	0.99	0.71	28.2%	0.00	0.00	0.0%
1997	0.89	0.55	38.4%	12.44	7.29	41.4%	0.97	0.69	28.6%	0.00	0.00	0.0%
1998	0.83	0.51	38.2%	11.60	6.78	41.5%	0.95	0.69	28.0%	0.00	0.00	0.0%
1999	0.77	0.48	38.1%	10.81	6.31	41.6%	0.94	0.68	27.5%	0.00	0.00	0.0%
2000	0.72	0.46	36.2%	10.04	5.93	41.0%	0.93	0.68	27.1%	0.00	0.00	0.0%
2001	0.69	0.44	36.3%	9.51	5.70	40.1%	0.93	0.68	26.8%	0.00	0.00	0.0%
2002	0.66	0.42	36.5%	9.02	5.38	40.4%	0.92	0.68	26.5%	0.00	0.00	0.0%
2003	0.63	0.41	35.3%	8.49	5.04	40.7%	0.91	0.67	26.2%	0.00	0.00	0.0%
2004	0.61	0.40	34.5%	7.97	4.70	41.0%	0.91	0.67	26.1%	0.00	0.00	0.0%
2005	0.58	0.38	34.5%	7.54	4.43	41.3%	0.90	0.67	26.0%	0.00	0.00	0.0%
2006	0.57	0.37	34.4%	7.19	4.21	41.4%	0.89	0.66	25.9%	0.00	0.00	0.0%
2007	0.55	0.36	34.2%	6.90	4.04	41.4%	0.89	0.66	25.7%	0.00	0.00	0.0%
2008	0.55	0.36	34.2%	6.73	3.94	41.4%	0.89	0.66	25.6%	0.00	0.00	0.0%
2009	0.54	0.36	34.1%	6.62	3.88	41.4%	0.89	0.66	25.5%	0.00	0.00	0.0%
2010	0.54	0.36	34.0%	6.55	3.84	41.4%	0.89	0.66	25.4%	0.00	0.00	0.0%
2011	0.54	0.35	33.9%	6.50	3.81	41.4%	0.89	0.66	25.3%	0.00	0.00	0.0%
2012	0.54	0.35	33.8%	6.46	3.79	41.4%	0.89	0.66	25.2%	0.00	0.00	0.0%
2013	0.53	0.35	33.7%	6.42	3.77	41.3%	0.89	0.66	25.1%	0.00	0.00	0.0%
2014	0.53	0.35	33.7%	6.39	3.74	41.5%	0.89	0.66	25.1%	0.00	0.00	0.0%
2015	0.53	0.35	33.8%	6.35	3.71	41.6%	0.89	0.66	25.1%	0.00	0.00	0.0%
2016	0.53	0.35	33.8%	6.31	3.69	41.6%	0.89	0.66	25.1%	0.00	0.00	0.0%
2017	0.53	0.35	33.8%	6.28	3.67	41.6%	0.89	0.66	25.1%	0.00	0.00	0.0%
2018	0.53	0.35	33.8%	6.25	3.65	41.6%	0.89	0.66	25.1%	0.00	0.00	0.0%
2019	0.53	0.35	33.8%	6.25	3.65	41.6%	0.89	0.66	25.1%	0.00	0.00	0.0%
2020	0.53	0.35	33.8%	6.25	3.65	41.6%	0.89	0.66	25.1%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, five years before first inspection, ann
**
** Output file: SENS_MAXEFFORT_NEW5_ANN.OUT
**
** Date of this run: 1/15/ 91
** 14: 6
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.68	17.3%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.2%	31.04	23.07	25.7%	2.16	1.87	13.1%	0.00	0.00	0.0%
1986	2.70	2.03	24.7%	29.25	20.86	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.6%	27.39	18.80	31.4%	1.97	1.61	18.2%	0.00	0.00	0.0%
1988	2.23	1.55	30.3%	25.65	16.98	33.8%	1.89	1.50	20.6%	0.00	0.00	0.0%
1989	2.04	1.37	33.0%	24.16	15.44	36.1%	1.83	1.41	22.8%	0.00	0.00	0.0%
1990	1.88	1.22	35.2%	22.93	14.13	38.4%	1.78	1.34	24.6%	0.00	0.00	0.0%
1991	1.74	1.10	36.8%	21.79	13.02	40.2%	1.73	1.28	25.7%	0.00	0.00	0.0%
1992	1.61	1.00	38.1%	20.74	12.09	41.7%	1.68	1.24	26.5%	0.00	0.00	0.0%
1993	1.50	0.92	38.9%	19.82	11.27	43.2%	1.65	1.20	27.1%	0.00	0.00	0.0%
1994	1.41	0.85	39.4%	18.91	10.54	44.3%	1.61	1.17	27.3%	0.00	0.00	0.0%
1995	1.32	0.79	39.9%	18.08	9.89	45.3%	1.59	1.15	27.4%	0.00	0.00	0.0%
1996	1.25	0.75	40.1%	17.36	9.34	46.2%	1.57	1.14	27.3%	0.00	0.00	0.0%
1997	1.19	0.71	40.2%	16.73	8.87	47.0%	1.55	1.13	27.2%	0.00	0.00	0.0%
1998	1.13	0.67	40.5%	16.16	8.47	47.6%	1.54	1.12	27.0%	0.00	0.00	0.0%
1999	1.08	0.64	40.9%	15.67	8.12	48.2%	1.53	1.12	26.8%	0.00	0.00	0.0%
2000	1.04	0.63	39.7%	15.23	7.94	47.9%	1.52	1.11	26.7%	0.00	0.00	0.0%
2001	1.00	0.60	39.8%	14.86	7.81	47.4%	1.51	1.11	26.5%	0.00	0.00	0.0%
2002	0.96	0.58	39.9%	14.55	7.61	47.7%	1.51	1.11	26.4%	0.00	0.00	0.0%
2003	0.94	0.57	38.9%	14.36	7.45	48.1%	1.50	1.11	26.3%	0.00	0.00	0.0%
2004	0.92	0.57	38.0%	14.19	7.31	48.5%	1.49	1.10	26.2%	0.00	0.00	0.0%
2005	0.90	0.56	38.0%	14.04	7.19	48.8%	1.49	1.10	26.1%	0.00	0.00	0.0%
2006	0.89	0.55	37.9%	13.95	7.12	49.0%	1.48	1.10	26.0%	0.00	0.00	0.0%
2007	0.88	0.55	37.8%	13.87	7.04	49.2%	1.48	1.09	25.9%	0.00	0.00	0.0%
2008	0.88	0.55	37.8%	13.82	7.00	49.3%	1.47	1.09	25.8%	0.00	0.00	0.0%
2009	0.88	0.55	37.7%	13.79	6.98	49.4%	1.47	1.09	25.6%	0.00	0.00	0.0%
2010	0.87	0.55	37.6%	13.78	6.96	49.5%	1.47	1.10	25.5%	0.00	0.00	0.0%
2011	0.87	0.55	37.4%	13.77	6.96	49.5%	1.47	1.10	25.3%	0.00	0.00	0.0%
2012	0.87	0.55	37.3%	13.76	6.96	49.4%	1.47	1.10	25.2%	0.00	0.00	0.0%
2013	0.87	0.55	37.1%	13.76	6.97	49.4%	1.47	1.10	25.1%	0.00	0.00	0.0%
2014	0.87	0.55	37.1%	13.75	6.96	49.4%	1.47	1.10	25.0%	0.00	0.00	0.0%
2015	0.87	0.55	37.2%	13.75	6.95	49.4%	1.47	1.10	25.0%	0.00	0.00	0.0%
2016	0.87	0.55	37.2%	13.74	6.94	49.5%	1.47	1.10	24.9%	0.00	0.00	0.0%
2017	0.87	0.55	37.2%	13.74	6.93	49.5%	1.47	1.10	24.9%	0.00	0.00	0.0%
2018	0.87	0.55	37.2%	13.74	6.93	49.5%	1.47	1.10	24.9%	0.00	0.00	0.0%
2019	0.87	0.55	37.2%	13.74	6.93	49.5%	1.47	1.10	24.9%	0.00	0.00	0.0%
2020	0.87	0.55	37.2%	13.74	6.93	49.5%	1.47	1.10	24.9%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, no free years before first inspection, bi
**
**      Output file: SENS_MAXEFFORT_NEW0_BIENNIAL.OUT
**
** Date of this run:  1/15/  91
**                   13:31
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	0
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, no free years before first inspection, bi
**
** Output file: SENS_MAXEFFORT_NEW0_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:31
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.37	14.7%	28.39	24.19	14.8%	2.01	1.84	8.3%	0.00	0.00	0.0%
1985	2.53	2.12	16.1%	26.40	21.96	16.8%	1.90	1.71	9.7%	0.00	0.00	0.0%
1986	2.29	1.89	17.1%	24.48	19.92	18.7%	1.79	1.59	11.3%	0.00	0.00	0.0%
1987	2.06	1.69	18.0%	22.65	18.08	20.2%	1.69	1.48	12.8%	0.00	0.00	0.0%
1988	1.86	1.50	19.1%	20.93	16.45	21.4%	1.60	1.37	14.3%	0.00	0.00	0.0%
1989	1.68	1.34	20.2%	19.32	14.98	22.5%	1.51	1.27	15.9%	0.00	0.00	0.0%
1990	1.52	1.20	21.0%	17.93	13.74	23.4%	1.41	1.16	17.4%	0.00	0.00	0.0%
1991	1.38	1.08	21.8%	16.68	12.65	24.2%	1.31	1.07	18.6%	0.00	0.00	0.0%
1992	1.26	0.97	22.5%	15.61	11.71	25.0%	1.21	0.98	19.5%	0.00	0.00	0.0%
1993	1.16	0.89	23.1%	14.70	10.89	25.9%	1.13	0.90	20.4%	0.00	0.00	0.0%
1994	1.06	0.81	23.9%	13.82	10.05	27.3%	1.05	0.83	21.2%	0.00	0.00	0.0%
1995	0.98	0.74	24.8%	12.92	9.19	28.9%	0.98	0.77	21.8%	0.00	0.00	0.0%
1996	0.90	0.67	25.5%	12.07	8.38	30.5%	0.92	0.72	22.2%	0.00	0.00	0.0%
1997	0.83	0.61	26.2%	11.26	7.64	32.1%	0.87	0.67	22.5%	0.00	0.00	0.0%
1998	0.76	0.56	26.9%	10.48	6.97	33.5%	0.82	0.63	22.5%	0.00	0.00	0.0%
1999	0.70	0.51	27.4%	9.77	6.37	34.7%	0.78	0.60	22.4%	0.00	0.00	0.0%
2000	0.66	0.47	28.2%	9.13	5.97	34.6%	0.74	0.58	22.2%	0.00	0.00	0.0%
2001	0.62	0.44	28.9%	8.52	5.50	35.4%	0.71	0.55	22.0%	0.00	0.00	0.0%
2002	0.59	0.42	29.3%	7.98	5.11	35.9%	0.68	0.53	21.9%	0.00	0.00	0.0%
2003	0.56	0.40	28.6%	7.45	4.75	36.3%	0.66	0.52	21.7%	0.00	0.00	0.0%
2004	0.53	0.38	28.5%	6.95	4.40	36.6%	0.64	0.50	21.5%	0.00	0.00	0.0%
2005	0.51	0.36	28.7%	6.50	4.10	37.0%	0.63	0.49	21.2%	0.00	0.00	0.0%
2006	0.49	0.35	28.9%	6.16	3.87	37.1%	0.62	0.49	21.0%	0.00	0.00	0.0%
2007	0.48	0.34	29.1%	5.87	3.68	37.3%	0.61	0.48	20.8%	0.00	0.00	0.0%
2008	0.47	0.33	29.3%	5.63	3.52	37.5%	0.60	0.48	20.6%	0.00	0.00	0.0%
2009	0.46	0.33	29.5%	5.45	3.40	37.6%	0.60	0.48	20.5%	0.00	0.00	0.0%
2010	0.46	0.32	29.6%	5.33	3.32	37.7%	0.60	0.47	20.4%	0.00	0.00	0.0%
2011	0.45	0.32	29.7%	5.24	3.26	37.8%	0.59	0.47	20.3%	0.00	0.00	0.0%
2012	0.45	0.32	29.7%	5.18	3.22	37.9%	0.59	0.47	20.2%	0.00	0.00	0.0%
2013	0.45	0.32	29.7%	5.13	3.19	37.9%	0.59	0.47	20.1%	0.00	0.00	0.0%
2014	0.45	0.31	29.7%	5.09	3.16	37.9%	0.59	0.47	20.1%	0.00	0.00	0.0%
2015	0.45	0.31	29.8%	5.06	3.14	37.9%	0.59	0.47	20.1%	0.00	0.00	0.0%
2016	0.44	0.31	29.8%	5.02	3.11	38.0%	0.59	0.47	20.1%	0.00	0.00	0.0%
2017	0.44	0.31	29.8%	4.98	3.09	38.0%	0.59	0.47	20.0%	0.00	0.00	0.0%
2018	0.44	0.31	29.8%	4.96	3.07	38.1%	0.59	0.47	20.0%	0.00	0.00	0.0%
2019	0.44	0.31	29.8%	4.95	3.06	38.1%	0.59	0.47	20.0%	0.00	0.00	0.0%
2020	0.44	0.31	29.8%	4.95	3.06	38.1%	0.59	0.47	20.0%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, no free years before first inspection, bi
**
** Output file: SENS_MAXEFFORT_NEW0_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:31
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.58	14.1%	30.42	25.05	17.7%	2.04	1.87	8.6%	0.00	0.00	0.0%
1985	2.71	2.26	16.7%	28.51	23.10	19.0%	1.92	1.72	10.3%	0.00	0.00	0.0%
1986	2.44	1.96	19.4%	26.53	21.02	20.8%	1.79	1.57	12.1%	0.00	0.00	0.0%
1987	2.23	1.76	21.1%	25.24	19.43	23.0%	1.68	1.45	13.7%	0.00	0.00	0.0%
1988	1.98	1.54	22.5%	23.44	17.86	23.8%	1.55	1.31	15.4%	0.00	0.00	0.0%
1989	1.78	1.36	23.6%	21.74	16.48	24.2%	1.46	1.21	16.9%	0.00	0.00	0.0%
1990	1.60	1.21	24.1%	19.91	15.20	23.6%	1.36	1.11	18.4%	0.00	0.00	0.0%
1991	1.49	1.12	25.3%	19.24	14.52	24.5%	1.31	1.05	19.6%	0.00	0.00	0.0%
1992	1.35	1.00	26.0%	17.78	13.39	24.7%	1.20	0.96	20.3%	0.00	0.00	0.0%
1993	1.24	0.92	26.4%	16.65	12.39	25.6%	1.13	0.89	21.1%	0.00	0.00	0.0%
1994	1.14	0.84	27.0%	15.62	11.34	27.4%	1.07	0.84	22.0%	0.00	0.00	0.0%
1995	1.05	0.76	28.0%	14.50	10.30	29.0%	1.03	0.80	22.6%	0.00	0.00	0.0%
1996	0.97	0.69	29.0%	13.45	9.35	30.5%	0.99	0.76	23.2%	0.00	0.00	0.0%
1997	0.89	0.62	30.0%	12.44	8.42	32.3%	0.97	0.74	23.5%	0.00	0.00	0.0%
1998	0.83	0.57	31.0%	11.60	7.66	34.0%	0.95	0.73	23.8%	0.00	0.00	0.0%
1999	0.77	0.52	31.8%	10.81	6.99	35.3%	0.94	0.71	24.1%	0.00	0.00	0.0%
2000	0.72	0.50	30.8%	10.04	6.45	35.8%	0.93	0.71	24.2%	0.00	0.00	0.0%
2001	0.69	0.47	31.6%	9.51	6.09	35.9%	0.93	0.70	24.4%	0.00	0.00	0.0%
2002	0.66	0.45	32.4%	9.02	5.68	37.0%	0.92	0.69	24.4%	0.00	0.00	0.0%
2003	0.63	0.43	31.7%	8.49	5.29	37.7%	0.91	0.69	24.4%	0.00	0.00	0.0%
2004	0.61	0.42	31.3%	7.97	4.93	38.2%	0.91	0.68	24.5%	0.00	0.00	0.0%
2005	0.58	0.40	31.5%	7.54	4.63	38.6%	0.90	0.68	24.5%	0.00	0.00	0.0%
2006	0.57	0.39	31.6%	7.19	4.38	39.0%	0.89	0.67	24.5%	0.00	0.00	0.0%
2007	0.55	0.38	31.8%	6.90	4.17	39.5%	0.89	0.67	24.4%	0.00	0.00	0.0%
2008	0.55	0.37	32.0%	6.73	4.05	39.9%	0.89	0.67	24.4%	0.00	0.00	0.0%
2009	0.54	0.37	32.2%	6.62	3.96	40.2%	0.89	0.67	24.3%	0.00	0.00	0.0%
2010	0.54	0.36	32.3%	6.55	3.89	40.5%	0.89	0.67	24.3%	0.00	0.00	0.0%
2011	0.54	0.36	32.4%	6.50	3.85	40.8%	0.89	0.67	24.3%	0.00	0.00	0.0%
2012	0.54	0.36	32.5%	6.46	3.81	41.1%	0.89	0.67	24.3%	0.00	0.00	0.0%
2013	0.53	0.36	32.5%	6.42	3.78	41.2%	0.89	0.67	24.3%	0.00	0.00	0.0%
2014	0.53	0.36	32.6%	6.39	3.75	41.3%	0.89	0.67	24.2%	0.00	0.00	0.0%
2015	0.53	0.36	32.6%	6.35	3.72	41.4%	0.89	0.67	24.2%	0.00	0.00	0.0%
2016	0.53	0.36	32.6%	6.31	3.70	41.4%	0.89	0.67	24.2%	0.00	0.00	0.0%
2017	0.53	0.36	32.6%	6.28	3.68	41.4%	0.89	0.67	24.2%	0.00	0.00	0.0%
2018	0.53	0.36	32.6%	6.25	3.67	41.4%	0.89	0.67	24.2%	0.00	0.00	0.0%
2019	0.53	0.36	32.6%	6.25	3.66	41.4%	0.89	0.67	24.2%	0.00	0.00	0.0%
2020	0.53	0.36	32.6%	6.25	3.66	41.4%	0.89	0.67	24.2%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, no free years before first inspection, bi
**
** Output file: SENS_MAXEFFORT_NEW0_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:31
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.74	15.2%	32.80	26.50	19.2%	2.28	2.08	8.7%	0.00	0.00	0.0%
1985	2.96	2.42	18.3%	31.04	24.24	21.9%	2.16	1.92	10.8%	0.00	0.00	0.0%
1986	2.70	2.13	20.9%	29.25	22.17	24.2%	2.05	1.79	12.8%	0.00	0.00	0.0%
1987	2.45	1.89	22.9%	27.39	20.22	26.2%	1.97	1.68	14.8%	0.00	0.00	0.0%
1988	2.23	1.68	24.9%	25.65	18.45	28.1%	1.89	1.58	16.7%	0.00	0.00	0.0%
1989	2.04	1.49	26.8%	24.16	16.92	30.0%	1.83	1.49	18.4%	0.00	0.00	0.0%
1990	1.88	1.34	28.7%	22.93	15.54	32.2%	1.78	1.42	20.1%	0.00	0.00	0.0%
1991	1.74	1.21	30.3%	21.79	14.30	34.4%	1.73	1.36	21.4%	0.00	0.00	0.0%
1992	1.61	1.10	31.7%	20.74	13.21	36.3%	1.68	1.31	22.5%	0.00	0.00	0.0%
1993	1.50	1.01	32.9%	19.82	12.21	38.4%	1.65	1.26	23.4%	0.00	0.00	0.0%
1994	1.41	0.93	33.9%	18.91	11.31	40.2%	1.61	1.23	24.1%	0.00	0.00	0.0%
1995	1.32	0.86	34.9%	18.08	10.51	41.9%	1.59	1.20	24.7%	0.00	0.00	0.0%
1996	1.25	0.80	35.8%	17.36	9.80	43.5%	1.57	1.17	25.1%	0.00	0.00	0.0%
1997	1.19	0.75	36.6%	16.73	9.20	45.0%	1.55	1.16	25.4%	0.00	0.00	0.0%
1998	1.13	0.71	37.5%	16.16	8.69	46.3%	1.54	1.14	25.7%	0.00	0.00	0.0%
1999	1.08	0.67	38.5%	15.67	8.24	47.4%	1.53	1.13	25.9%	0.00	0.00	0.0%
2000	1.04	0.64	37.8%	15.23	7.96	47.7%	1.52	1.12	26.1%	0.00	0.00	0.0%
2001	1.00	0.61	38.4%	14.86	7.76	47.8%	1.51	1.12	26.2%	0.00	0.00	0.0%
2002	0.96	0.59	38.8%	14.55	7.50	48.4%	1.51	1.11	26.2%	0.00	0.00	0.0%
2003	0.94	0.58	38.3%	14.36	7.30	49.1%	1.50	1.11	26.3%	0.00	0.00	0.0%
2004	0.92	0.57	37.8%	14.19	7.12	49.8%	1.49	1.10	26.3%	0.00	0.00	0.0%
2005	0.90	0.56	38.1%	14.04	6.97	50.4%	1.49	1.10	26.3%	0.00	0.00	0.0%
2006	0.89	0.55	38.3%	13.95	6.87	50.8%	1.48	1.09	26.4%	0.00	0.00	0.0%
2007	0.88	0.54	38.5%	13.87	6.76	51.3%	1.48	1.09	26.4%	0.00	0.00	0.0%
2008	0.88	0.54	38.7%	13.82	6.69	51.6%	1.47	1.08	26.3%	0.00	0.00	0.0%
2009	0.88	0.54	38.8%	13.79	6.64	51.9%	1.47	1.08	26.3%	0.00	0.00	0.0%
2010	0.87	0.53	38.9%	13.78	6.60	52.1%	1.47	1.08	26.2%	0.00	0.00	0.0%
2011	0.87	0.53	39.0%	13.77	6.57	52.2%	1.47	1.08	26.2%	0.00	0.00	0.0%
2012	0.87	0.53	39.0%	13.76	6.56	52.3%	1.47	1.08	26.2%	0.00	0.00	0.0%
2013	0.87	0.53	39.1%	13.76	6.55	52.4%	1.47	1.08	26.1%	0.00	0.00	0.0%
2014	0.87	0.53	39.1%	13.75	6.54	52.4%	1.47	1.08	26.1%	0.00	0.00	0.0%
2015	0.87	0.53	39.1%	13.75	6.53	52.5%	1.47	1.09	26.0%	0.00	0.00	0.0%
2016	0.87	0.53	39.1%	13.74	6.52	52.5%	1.47	1.09	26.0%	0.00	0.00	0.0%
2017	0.87	0.53	39.1%	13.74	6.52	52.5%	1.47	1.09	25.9%	0.00	0.00	0.0%
2018	0.87	0.53	39.1%	13.74	6.52	52.6%	1.47	1.09	25.9%	0.00	0.00	0.0%
2019	0.87	0.53	39.1%	13.74	6.52	52.6%	1.47	1.09	25.9%	0.00	0.00	0.0%
2020	0.87	0.53	39.1%	13.74	6.52	52.6%	1.47	1.09	25.9%	0.00	0.00	0.0%

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** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
 *
** Max efforts program, biennial inspections
**
**      Output file: SENS_MAXEFFORT_NEW1_BIENNIAL.OUT
**
** Date of this run:  1/15/  91
**                   13:28
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, biennial inspections
**
** Output file: SENS_MAXEFFORT_NEW1_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:28
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.37	14.7%	28.39	24.19	14.8%	2.01	1.84	8.3%	0.00	0.00	0.0%
1985	2.53	2.12	16.1%	26.40	21.96	16.8%	1.90	1.71	9.7%	0.00	0.00	0.0%
1986	2.29	1.89	17.1%	24.48	19.92	18.7%	1.79	1.59	11.3%	0.00	0.00	0.0%
1987	2.06	1.69	18.0%	22.65	18.08	20.2%	1.69	1.48	12.8%	0.00	0.00	0.0%
1988	1.86	1.50	19.1%	20.93	16.45	21.4%	1.60	1.37	14.3%	0.00	0.00	0.0%
1989	1.68	1.34	20.2%	19.32	14.98	22.5%	1.51	1.27	15.9%	0.00	0.00	0.0%
1990	1.52	1.20	21.0%	17.93	13.74	23.4%	1.41	1.16	17.4%	0.00	0.00	0.0%
1991	1.38	1.08	21.8%	16.68	12.65	24.2%	1.31	1.07	18.6%	0.00	0.00	0.0%
1992	1.26	0.97	22.5%	15.61	11.71	25.0%	1.21	0.98	19.5%	0.00	0.00	0.0%
1993	1.16	0.89	23.1%	14.70	10.89	25.9%	1.13	0.90	20.4%	0.00	0.00	0.0%
1994	1.06	0.81	23.9%	13.82	10.05	27.3%	1.05	0.83	21.2%	0.00	0.00	0.0%
1995	0.98	0.74	24.8%	12.92	9.19	28.8%	0.98	0.77	21.8%	0.00	0.00	0.0%
1996	0.90	0.67	25.5%	12.07	8.38	30.5%	0.92	0.72	22.2%	0.00	0.00	0.0%
1997	0.83	0.61	26.2%	11.26	7.64	32.1%	0.87	0.67	22.4%	0.00	0.00	0.0%
1998	0.76	0.56	26.8%	10.48	6.97	33.5%	0.82	0.64	22.5%	0.00	0.00	0.0%
1999	0.70	0.51	27.3%	9.77	6.38	34.7%	0.78	0.60	22.4%	0.00	0.00	0.0%
2000	0.66	0.47	28.2%	9.13	5.97	34.6%	0.74	0.58	22.2%	0.00	0.00	0.0%
2001	0.62	0.44	28.9%	8.52	5.50	35.4%	0.71	0.55	22.0%	0.00	0.00	0.0%
2002	0.59	0.42	29.2%	7.98	5.11	35.9%	0.68	0.53	21.8%	0.00	0.00	0.0%
2003	0.56	0.40	28.5%	7.45	4.75	36.3%	0.66	0.52	21.6%	0.00	0.00	0.0%
2004	0.53	0.38	28.4%	6.95	4.40	36.6%	0.64	0.50	21.4%	0.00	0.00	0.0%
2005	0.51	0.36	28.6%	6.50	4.10	36.9%	0.63	0.49	21.1%	0.00	0.00	0.0%
2006	0.49	0.35	28.8%	6.16	3.88	37.1%	0.62	0.49	20.9%	0.00	0.00	0.0%
2007	0.48	0.34	29.0%	5.87	3.68	37.2%	0.61	0.48	20.7%	0.00	0.00	0.0%
2008	0.47	0.33	29.2%	5.63	3.52	37.5%	0.60	0.48	20.5%	0.00	0.00	0.0%
2009	0.46	0.33	29.3%	5.45	3.40	37.6%	0.60	0.48	20.4%	0.00	0.00	0.0%
2010	0.46	0.32	29.5%	5.33	3.32	37.7%	0.60	0.47	20.3%	0.00	0.00	0.0%
2011	0.45	0.32	29.5%	5.24	3.26	37.8%	0.59	0.47	20.2%	0.00	0.00	0.0%
2012	0.45	0.32	29.6%	5.18	3.22	37.9%	0.59	0.47	20.1%	0.00	0.00	0.0%
2013	0.45	0.32	29.6%	5.13	3.19	37.9%	0.59	0.47	20.1%	0.00	0.00	0.0%
2014	0.45	0.31	29.6%	5.09	3.16	37.9%	0.59	0.47	20.1%	0.00	0.00	0.0%
2015	0.45	0.31	29.6%	5.06	3.14	37.9%	0.59	0.47	20.0%	0.00	0.00	0.0%
2016	0.44	0.31	29.6%	5.02	3.11	38.0%	0.59	0.47	20.0%	0.00	0.00	0.0%
2017	0.44	0.31	29.7%	4.98	3.09	38.0%	0.59	0.47	20.0%	0.00	0.00	0.0%
2018	0.44	0.31	29.7%	4.96	3.07	38.1%	0.59	0.47	20.0%	0.00	0.00	0.0%
2019	0.44	0.31	29.7%	4.95	3.06	38.1%	0.59	0.47	20.0%	0.00	0.00	0.0%
2020	0.44	0.31	29.7%	4.95	3.06	38.1%	0.59	0.47	20.0%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, biennial inspections
**
** Output file: SENS_MAXEFFORT_NEW1_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:28
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.58	14.1%	30.42	25.05	17.7%	2.04	1.87	8.6%	0.00	0.00	0.0%
1985	2.71	2.26	16.7%	28.51	23.10	19.0%	1.92	1.72	10.3%	0.00	0.00	0.0%
1986	2.44	1.96	19.4%	26.53	21.02	20.8%	1.79	1.57	12.1%	0.00	0.00	0.0%
1987	2.23	1.76	21.1%	25.24	19.43	23.0%	1.68	1.45	13.7%	0.00	0.00	0.0%
1988	1.98	1.54	22.5%	23.44	17.86	23.8%	1.55	1.31	15.4%	0.00	0.00	0.0%
1989	1.78	1.36	23.6%	21.74	16.48	24.2%	1.46	1.21	16.9%	0.00	0.00	0.0%
1990	1.60	1.21	24.1%	19.91	15.20	23.6%	1.36	1.11	18.4%	0.00	0.00	0.0%
1991	1.49	1.12	25.3%	19.24	14.52	24.5%	1.31	1.05	19.6%	0.00	0.00	0.0%
1992	1.35	1.00	26.0%	17.78	13.39	24.7%	1.20	0.96	20.3%	0.00	0.00	0.0%
1993	1.24	0.92	26.4%	16.65	12.39	25.6%	1.13	0.89	21.1%	0.00	0.00	0.0%
1994	1.14	0.84	27.0%	15.62	11.34	27.4%	1.07	0.84	22.0%	0.00	0.00	0.0%
1995	1.05	0.76	28.0%	14.50	10.30	28.9%	1.03	0.80	22.6%	0.00	0.00	0.0%
1996	0.97	0.69	29.0%	13.45	9.35	30.5%	0.99	0.76	23.1%	0.00	0.00	0.0%
1997	0.89	0.62	30.0%	12.44	8.42	32.3%	0.97	0.74	23.5%	0.00	0.00	0.0%
1998	0.83	0.57	31.0%	11.60	7.66	34.0%	0.95	0.73	23.8%	0.00	0.00	0.0%
1999	0.77	0.53	31.8%	10.81	6.99	35.3%	0.94	0.71	24.0%	0.00	0.00	0.0%
2000	0.72	0.50	30.7%	10.04	6.45	35.8%	0.93	0.71	24.2%	0.00	0.00	0.0%
2001	0.69	0.47	31.6%	9.51	6.10	35.9%	0.93	0.70	24.3%	0.00	0.00	0.0%
2002	0.66	0.45	32.4%	9.02	5.69	37.0%	0.92	0.70	24.4%	0.00	0.00	0.0%
2003	0.63	0.43	31.7%	8.49	5.30	37.6%	0.91	0.69	24.4%	0.00	0.00	0.0%
2004	0.61	0.42	31.3%	7.97	4.93	38.1%	0.91	0.68	24.4%	0.00	0.00	0.0%
2005	0.58	0.40	31.5%	7.54	4.63	38.6%	0.90	0.68	24.4%	0.00	0.00	0.0%
2006	0.57	0.39	31.6%	7.19	4.39	39.0%	0.89	0.68	24.4%	0.00	0.00	0.0%
2007	0.55	0.38	31.7%	6.90	4.18	39.5%	0.89	0.67	24.3%	0.00	0.00	0.0%
2008	0.55	0.37	31.9%	6.73	4.05	39.8%	0.89	0.67	24.3%	0.00	0.00	0.0%
2009	0.54	0.37	32.1%	6.62	3.96	40.2%	0.89	0.67	24.3%	0.00	0.00	0.0%
2010	0.54	0.37	32.2%	6.55	3.90	40.5%	0.89	0.67	24.3%	0.00	0.00	0.0%
2011	0.54	0.36	32.3%	6.50	3.85	40.8%	0.89	0.67	24.2%	0.00	0.00	0.0%
2012	0.54	0.36	32.4%	6.46	3.81	41.0%	0.89	0.67	24.2%	0.00	0.00	0.0%
2013	0.53	0.36	32.5%	6.42	3.78	41.2%	0.89	0.67	24.2%	0.00	0.00	0.0%
2014	0.53	0.36	32.5%	6.39	3.75	41.3%	0.89	0.67	24.2%	0.00	0.00	0.0%
2015	0.53	0.36	32.5%	6.35	3.72	41.4%	0.89	0.67	24.2%	0.00	0.00	0.0%
2016	0.53	0.36	32.5%	6.31	3.70	41.4%	0.89	0.67	24.1%	0.00	0.00	0.0%
2017	0.53	0.36	32.5%	6.28	3.68	41.4%	0.89	0.67	24.1%	0.00	0.00	0.0%
2018	0.53	0.36	32.5%	6.25	3.67	41.3%	0.89	0.67	24.1%	0.00	0.00	0.0%
2019	0.53	0.36	32.5%	6.25	3.66	41.3%	0.89	0.67	24.1%	0.00	0.00	0.0%
2020	0.53	0.36	32.5%	6.25	3.66	41.3%	0.89	0.67	24.1%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, biennial inspections
**
** Output file: SENS_MAXEFFORT_NEW1_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
** 13:28
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.74	15.2%	32.80	26.50	19.2%	2.28	2.08	8.7%	0.00	0.00	0.0%
1985	2.96	2.42	18.3%	31.04	24.24	21.9%	2.16	1.92	10.8%	0.00	0.00	0.0%
1986	2.70	2.13	20.9%	29.25	22.17	24.2%	2.05	1.79	12.8%	0.00	0.00	0.0%
1987	2.45	1.89	22.9%	27.39	20.22	26.2%	1.97	1.68	14.8%	0.00	0.00	0.0%
1988	2.23	1.68	24.9%	25.65	18.45	28.1%	1.89	1.58	16.7%	0.00	0.00	0.0%
1989	2.04	1.49	26.8%	24.16	16.92	30.0%	1.83	1.49	18.4%	0.00	0.00	0.0%
1990	1.88	1.34	28.7%	22.93	15.54	32.2%	1.78	1.42	20.1%	0.00	0.00	0.0%
1991	1.74	1.21	30.3%	21.79	14.30	34.4%	1.73	1.36	21.4%	0.00	0.00	0.0%
1992	1.61	1.10	31.7%	20.74	13.21	36.3%	1.68	1.31	22.5%	0.00	0.00	0.0%
1993	1.50	1.01	32.9%	19.82	12.22	38.3%	1.65	1.26	23.4%	0.00	0.00	0.0%
1994	1.41	0.93	33.9%	18.91	11.32	40.2%	1.61	1.23	24.1%	0.00	0.00	0.0%
1995	1.32	0.86	34.9%	18.08	10.52	41.8%	1.59	1.20	24.6%	0.00	0.00	0.0%
1996	1.25	0.80	35.8%	17.36	9.81	43.5%	1.57	1.18	25.0%	0.00	0.00	0.0%
1997	1.19	0.75	36.6%	16.73	9.21	44.9%	1.55	1.16	25.4%	0.00	0.00	0.0%
1998	1.13	0.71	37.5%	16.16	8.70	46.2%	1.54	1.15	25.6%	0.00	0.00	0.0%
1999	1.08	0.67	38.4%	15.67	8.25	47.3%	1.53	1.13	25.8%	0.00	0.00	0.0%
2000	1.04	0.64	37.8%	15.23	7.98	47.6%	1.52	1.13	26.0%	0.00	0.00	0.0%
2001	1.00	0.61	38.3%	14.86	7.77	47.7%	1.51	1.12	26.1%	0.00	0.00	0.0%
2002	0.96	0.59	38.8%	14.55	7.52	48.3%	1.51	1.11	26.1%	0.00	0.00	0.0%
2003	0.94	0.58	38.3%	14.36	7.32	49.0%	1.50	1.11	26.2%	0.00	0.00	0.0%
2004	0.92	0.57	37.8%	14.19	7.14	49.7%	1.49	1.10	26.2%	0.00	0.00	0.0%
2005	0.90	0.56	38.0%	14.04	6.99	50.2%	1.49	1.10	26.2%	0.00	0.00	0.0%
2006	0.89	0.55	38.2%	13.95	6.89	50.7%	1.48	1.09	26.2%	0.00	0.00	0.0%
2007	0.88	0.54	38.4%	13.87	6.78	51.1%	1.48	1.09	26.2%	0.00	0.00	0.0%
2008	0.88	0.54	38.6%	13.82	6.71	51.4%	1.47	1.09	26.2%	0.00	0.00	0.0%
2009	0.88	0.54	38.7%	13.79	6.66	51.7%	1.47	1.09	26.2%	0.00	0.00	0.0%
2010	0.87	0.53	38.9%	13.78	6.62	52.0%	1.47	1.09	26.1%	0.00	0.00	0.0%
2011	0.87	0.53	38.9%	13.77	6.59	52.1%	1.47	1.09	26.1%	0.00	0.00	0.0%
2012	0.87	0.53	39.0%	13.76	6.58	52.2%	1.47	1.09	26.1%	0.00	0.00	0.0%
2013	0.87	0.53	39.0%	13.76	6.57	52.2%	1.47	1.09	26.0%	0.00	0.00	0.0%
2014	0.87	0.53	39.0%	13.75	6.56	52.3%	1.47	1.09	25.9%	0.00	0.00	0.0%
2015	0.87	0.53	39.0%	13.75	6.55	52.3%	1.47	1.09	25.9%	0.00	0.00	0.0%
2016	0.87	0.53	39.0%	13.74	6.55	52.4%	1.47	1.09	25.8%	0.00	0.00	0.0%
2017	0.87	0.53	39.0%	13.74	6.54	52.4%	1.47	1.09	25.8%	0.00	0.00	0.0%
2018	0.87	0.53	39.0%	13.74	6.54	52.4%	1.47	1.09	25.8%	0.00	0.00	0.0%
2019	0.87	0.53	39.0%	13.74	6.54	52.4%	1.47	1.09	25.8%	0.00	0.00	0.0%
2020	0.87	0.53	39.0%	13.74	6.54	52.4%	1.47	1.09	25.8%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, two free years before first inspection, bi
**
**      Output file: SENS_MAXEFFORT_NEW2_BIENNIAL.OUT
**
** Date of this run:  1/15/  91
**                   13:35
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	2
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, two free years before first inspection, bi
**
** Output file: SENS_MAXEFFORT_NEW2_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
** 13:35
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.37	14.7%	28.39	24.19	14.8%	2.01	1.84	8.3%	0.00	0.00	0.0%
1985	2.53	2.12	16.1%	26.40	21.96	16.8%	1.90	1.71	9.7%	0.00	0.00	0.0%
1986	2.29	1.89	17.1%	24.48	19.92	18.7%	1.79	1.59	11.3%	0.00	0.00	0.0%
1987	2.06	1.69	18.0%	22.65	18.08	20.2%	1.69	1.48	12.8%	0.00	0.00	0.0%
1988	1.86	1.50	19.1%	20.93	16.45	21.4%	1.60	1.37	14.3%	0.00	0.00	0.0%
1989	1.68	1.34	20.2%	19.32	14.98	22.5%	1.51	1.27	15.9%	0.00	0.00	0.0%
1990	1.52	1.20	21.0%	17.93	13.74	23.4%	1.41	1.16	17.4%	0.00	0.00	0.0%
1991	1.38	1.08	21.8%	16.68	12.65	24.2%	1.31	1.07	18.6%	0.00	0.00	0.0%
1992	1.26	0.97	22.5%	15.61	11.71	24.9%	1.21	0.98	19.5%	0.00	0.00	0.0%
1993	1.16	0.89	23.1%	14.70	10.89	25.9%	1.13	0.90	20.4%	0.00	0.00	0.0%
1994	1.06	0.81	23.9%	13.82	10.06	27.2%	1.05	0.83	21.1%	0.00	0.00	0.0%
1995	0.98	0.74	24.7%	12.92	9.20	28.8%	0.98	0.77	21.7%	0.00	0.00	0.0%
1996	0.90	0.67	25.4%	12.07	8.39	30.5%	0.92	0.72	22.2%	0.00	0.00	0.0%
1997	0.83	0.61	26.1%	11.26	7.65	32.0%	0.87	0.67	22.4%	0.00	0.00	0.0%
1998	0.76	0.56	26.7%	10.48	6.98	33.4%	0.82	0.64	22.4%	0.00	0.00	0.0%
1999	0.70	0.51	27.2%	9.77	6.38	34.6%	0.78	0.60	22.3%	0.00	0.00	0.0%
2000	0.66	0.47	28.0%	9.13	5.98	34.5%	0.74	0.58	22.1%	0.00	0.00	0.0%
2001	0.62	0.44	28.7%	8.52	5.51	35.3%	0.71	0.55	21.9%	0.00	0.00	0.0%
2002	0.59	0.42	29.0%	7.98	5.12	35.8%	0.68	0.54	21.7%	0.00	0.00	0.0%
2003	0.56	0.40	28.3%	7.45	4.76	36.1%	0.66	0.52	21.5%	0.00	0.00	0.0%
2004	0.53	0.38	28.2%	6.95	4.41	36.5%	0.64	0.50	21.3%	0.00	0.00	0.0%
2005	0.51	0.37	28.3%	6.50	4.11	36.8%	0.63	0.50	21.0%	0.00	0.00	0.0%
2006	0.49	0.35	28.5%	6.16	3.88	36.9%	0.62	0.49	20.8%	0.00	0.00	0.0%
2007	0.48	0.34	28.7%	5.87	3.69	37.1%	0.61	0.48	20.6%	0.00	0.00	0.0%
2008	0.47	0.33	28.9%	5.63	3.52	37.4%	0.60	0.48	20.4%	0.00	0.00	0.0%
2009	0.46	0.33	29.0%	5.45	3.41	37.5%	0.60	0.48	20.3%	0.00	0.00	0.0%
2010	0.46	0.32	29.1%	5.33	3.33	37.6%	0.60	0.48	20.2%	0.00	0.00	0.0%
2011	0.45	0.32	29.2%	5.24	3.27	37.7%	0.59	0.47	20.1%	0.00	0.00	0.0%
2012	0.45	0.32	29.3%	5.18	3.22	37.8%	0.59	0.47	20.0%	0.00	0.00	0.0%
2013	0.45	0.32	29.3%	5.13	3.20	37.8%	0.59	0.47	19.9%	0.00	0.00	0.0%
2014	0.45	0.32	29.3%	5.09	3.17	37.8%	0.59	0.47	19.9%	0.00	0.00	0.0%
2015	0.45	0.32	29.3%	5.06	3.15	37.8%	0.59	0.47	19.9%	0.00	0.00	0.0%
2016	0.44	0.31	29.3%	5.02	3.12	37.9%	0.59	0.47	19.9%	0.00	0.00	0.0%
2017	0.44	0.31	29.3%	4.98	3.09	37.9%	0.59	0.47	19.8%	0.00	0.00	0.0%
2018	0.44	0.31	29.4%	4.96	3.07	38.0%	0.59	0.47	19.8%	0.00	0.00	0.0%
2019	0.44	0.31	29.4%	4.95	3.07	38.0%	0.59	0.47	19.8%	0.00	0.00	0.0%
2020	0.44	0.31	29.4%	4.95	3.07	38.0%	0.59	0.47	19.8%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
: Max efforts program, two free years before first inspection, bi
**
** Output file: SENS_MAXEFFORT_NEW2_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:35
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.58	14.1%	30.42	25.05	17.7%	2.04	1.87	8.6%	0.00	0.00	0.0%
1985	2.71	2.26	16.7%	28.51	23.10	19.0%	1.92	1.72	10.3%	0.00	0.00	0.0%
1986	2.44	1.96	19.4%	26.53	21.02	20.8%	1.79	1.57	12.1%	0.00	0.00	0.0%
1987	2.23	1.76	21.1%	25.24	19.43	23.0%	1.68	1.45	13.7%	0.00	0.00	0.0%
1988	1.98	1.54	22.5%	23.44	17.86	23.8%	1.55	1.31	15.4%	0.00	0.00	0.0%
1989	1.78	1.36	23.6%	21.74	16.48	24.2%	1.46	1.21	16.9%	0.00	0.00	0.0%
1990	1.60	1.21	24.1%	19.91	15.20	23.6%	1.36	1.11	18.4%	0.00	0.00	0.0%
1991	1.49	1.12	25.3%	19.24	14.52	24.5%	1.31	1.05	19.6%	0.00	0.00	0.0%
1992	1.35	1.00	26.0%	17.78	13.40	24.6%	1.20	0.96	20.3%	0.00	0.00	0.0%
1993	1.24	0.92	26.3%	16.65	12.39	25.6%	1.13	0.89	21.0%	0.00	0.00	0.0%
1994	1.14	0.84	26.9%	15.62	11.35	27.3%	1.07	0.84	21.9%	0.00	0.00	0.0%
1995	1.05	0.76	28.0%	14.50	10.31	28.9%	1.03	0.80	22.5%	0.00	0.00	0.0%
1996	0.97	0.69	28.9%	13.45	9.37	30.4%	0.99	0.76	23.0%	0.00	0.00	0.0%
1997	0.89	0.63	29.8%	12.44	8.44	32.2%	0.97	0.74	23.4%	0.00	0.00	0.0%
1998	0.83	0.57	30.8%	11.60	7.67	33.9%	0.95	0.73	23.7%	0.00	0.00	0.0%
1999	0.77	0.53	31.6%	10.81	7.01	35.2%	0.94	0.72	23.9%	0.00	0.00	0.0%
2000	0.72	0.50	30.5%	10.04	6.47	35.6%	0.93	0.71	24.0%	0.00	0.00	0.0%
2001	0.69	0.47	31.4%	9.51	6.12	35.7%	0.93	0.70	24.1%	0.00	0.00	0.0%
2002	0.66	0.45	32.1%	9.02	5.71	36.7%	0.92	0.70	24.2%	0.00	0.00	0.0%
2003	0.63	0.43	31.4%	8.49	5.32	37.4%	0.91	0.69	24.2%	0.00	0.00	0.0%
2004	0.61	0.42	31.0%	7.97	4.95	37.9%	0.91	0.69	24.2%	0.00	0.00	0.0%
2005	0.58	0.40	31.2%	7.54	4.65	38.3%	0.90	0.68	24.2%	0.00	0.00	0.0%
2006	0.57	0.39	31.3%	7.19	4.41	38.7%	0.89	0.68	24.2%	0.00	0.00	0.0%
2007	0.55	0.38	31.4%	6.90	4.20	39.2%	0.89	0.67	24.1%	0.00	0.00	0.0%
2008	0.55	0.37	31.6%	6.73	4.07	39.6%	0.89	0.67	24.1%	0.00	0.00	0.0%
2009	0.54	0.37	31.8%	6.62	3.98	39.9%	0.89	0.67	24.1%	0.00	0.00	0.0%
2010	0.54	0.37	31.9%	6.55	3.92	40.2%	0.89	0.67	24.0%	0.00	0.00	0.0%
2011	0.54	0.37	32.0%	6.50	3.87	40.5%	0.89	0.67	24.0%	0.00	0.00	0.0%
2012	0.54	0.36	32.1%	6.46	3.83	40.7%	0.89	0.67	24.0%	0.00	0.00	0.0%
2013	0.53	0.36	32.1%	6.42	3.80	40.9%	0.89	0.67	24.0%	0.00	0.00	0.0%
2014	0.53	0.36	32.1%	6.39	3.77	41.0%	0.89	0.67	23.9%	0.00	0.00	0.0%
2015	0.53	0.36	32.2%	6.35	3.74	41.1%	0.89	0.67	23.9%	0.00	0.00	0.0%
2016	0.53	0.36	32.2%	6.31	3.72	41.1%	0.89	0.67	23.9%	0.00	0.00	0.0%
2017	0.53	0.36	32.2%	6.28	3.70	41.1%	0.89	0.67	23.9%	0.00	0.00	0.0%
2018	0.53	0.36	32.2%	6.25	3.69	41.1%	0.89	0.67	23.9%	0.00	0.00	0.0%
2019	0.53	0.36	32.2%	6.25	3.68	41.1%	0.89	0.67	23.9%	0.00	0.00	0.0%
2020	0.53	0.36	32.2%	6.25	3.68	41.1%	0.89	0.67	23.9%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, two free years before first inspection, bi
**
** Output file: SENS_MAXEFFORT_NEW2_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:35
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.74	15.2%	32.80	26.50	19.2%	2.28	2.08	8.7%	0.00	0.00	0.0%
1985	2.96	2.42	18.3%	31.04	24.24	21.9%	2.16	1.92	10.8%	0.00	0.00	0.0%
1986	2.70	2.13	20.9%	29.25	22.17	24.2%	2.05	1.79	12.8%	0.00	0.00	0.0%
1987	2.45	1.89	22.9%	27.39	20.22	26.2%	1.97	1.68	14.8%	0.00	0.00	0.0%
1988	2.23	1.68	24.9%	25.65	18.45	28.1%	1.89	1.58	16.7%	0.00	0.00	0.0%
1989	2.04	1.49	26.8%	24.16	16.92	30.0%	1.83	1.49	18.4%	0.00	0.00	0.0%
1990	1.88	1.34	28.7%	22.93	15.54	32.2%	1.78	1.42	20.1%	0.00	0.00	0.0%
1991	1.74	1.21	30.3%	21.79	14.31	34.3%	1.73	1.36	21.4%	0.00	0.00	0.0%
1992	1.61	1.10	31.7%	20.74	13.23	36.2%	1.68	1.31	22.4%	0.00	0.00	0.0%
1993	1.50	1.01	32.9%	19.82	12.25	38.2%	1.65	1.26	23.3%	0.00	0.00	0.0%
1994	1.41	0.93	33.8%	18.91	11.36	39.9%	1.61	1.23	24.0%	0.00	0.00	0.0%
1995	1.32	0.86	34.8%	18.08	10.56	41.6%	1.59	1.20	24.5%	0.00	0.00	0.0%
1996	1.25	0.80	35.6%	17.36	9.87	43.1%	1.57	1.18	24.9%	0.00	0.00	0.0%
1997	1.19	0.75	36.4%	16.73	9.28	44.5%	1.55	1.16	25.2%	0.00	0.00	0.0%
1998	1.13	0.71	37.2%	16.16	8.77	45.7%	1.54	1.15	25.4%	0.00	0.00	0.0%
1999	1.08	0.67	38.1%	15.67	8.33	46.8%	1.53	1.14	25.5%	0.00	0.00	0.0%
2000	1.04	0.65	37.4%	15.23	8.06	47.1%	1.52	1.13	25.7%	0.00	0.00	0.0%
2001	1.00	0.62	37.9%	14.86	7.86	47.1%	1.51	1.12	25.8%	0.00	0.00	0.0%
2002	0.96	0.59	38.3%	14.55	7.61	47.7%	1.51	1.12	25.8%	0.00	0.00	0.0%
2003	0.94	0.58	37.8%	14.36	7.41	48.4%	1.50	1.11	25.8%	0.00	0.00	0.0%
2004	0.92	0.58	37.3%	14.19	7.24	49.0%	1.49	1.11	25.9%	0.00	0.00	0.0%
2005	0.90	0.56	37.5%	14.04	7.09	49.5%	1.49	1.10	25.9%	0.00	0.00	0.0%
2006	0.89	0.56	37.7%	13.95	6.98	49.9%	1.48	1.10	25.9%	0.00	0.00	0.0%
2007	0.88	0.55	37.9%	13.87	6.88	50.4%	1.48	1.09	25.9%	0.00	0.00	0.0%
2008	0.88	0.54	38.0%	13.82	6.81	50.7%	1.47	1.09	25.9%	0.00	0.00	0.0%
2009	0.88	0.54	38.2%	13.79	6.76	51.0%	1.47	1.09	25.8%	0.00	0.00	0.0%
2010	0.87	0.54	38.3%	13.78	6.72	51.2%	1.47	1.09	25.7%	0.00	0.00	0.0%
2011	0.87	0.54	38.3%	13.77	6.70	51.3%	1.47	1.09	25.7%	0.00	0.00	0.0%
2012	0.87	0.54	38.4%	13.76	6.69	51.4%	1.47	1.09	25.7%	0.00	0.00	0.0%
2013	0.87	0.54	38.4%	13.76	6.68	51.5%	1.47	1.09	25.6%	0.00	0.00	0.0%
2014	0.87	0.54	38.4%	13.75	6.67	51.5%	1.47	1.09	25.6%	0.00	0.00	0.0%
2015	0.87	0.54	38.4%	13.75	6.66	51.5%	1.47	1.09	25.5%	0.00	0.00	0.0%
2016	0.87	0.54	38.4%	13.74	6.65	51.6%	1.47	1.09	25.5%	0.00	0.00	0.0%
2017	0.87	0.54	38.4%	13.74	6.65	51.6%	1.47	1.09	25.4%	0.00	0.00	0.0%
2018	0.87	0.54	38.4%	13.74	6.65	51.6%	1.47	1.09	25.4%	0.00	0.00	0.0%
2019	0.87	0.54	38.4%	13.74	6.65	51.6%	1.47	1.09	25.4%	0.00	0.00	0.0%
2020	0.87	0.54	38.4%	13.74	6.65	51.6%	1.47	1.09	25.4%	0.00	0.00	0.0%

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** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
 *
** Max efforts program, three years before first inspection, bi
**
**      Output file: SENS_MAXEFFORT_NEW3_BIENNIAL.OUT
**
** Date of this run:  1/15/  91
**                   13:39
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	3
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, three years before first inspection, bi
**
** Output file: SENS_MAXEFFORT_NEW3_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
** 13:39
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.37	14.7%	28.39	24.19	14.8%	2.01	1.84	8.3%	0.00	0.00	0.0%
1985	2.53	2.12	16.1%	26.40	21.96	16.8%	1.90	1.71	9.7%	0.00	0.00	0.0%
1986	2.29	1.89	17.1%	24.48	19.92	18.7%	1.79	1.59	11.3%	0.00	0.00	0.0%
1987	2.06	1.69	18.0%	22.65	18.08	20.2%	1.69	1.48	12.8%	0.00	0.00	0.0%
1988	1.86	1.50	19.1%	20.93	16.45	21.4%	1.60	1.37	14.3%	0.00	0.00	0.0%
1989	1.68	1.34	20.2%	19.32	14.98	22.5%	1.51	1.27	15.9%	0.00	0.00	0.0%
1990	1.52	1.20	21.0%	17.93	13.74	23.4%	1.41	1.16	17.3%	0.00	0.00	0.0%
1991	1.38	1.08	21.7%	16.68	12.65	24.2%	1.31	1.07	18.6%	0.00	0.00	0.0%
1992	1.26	0.97	22.4%	15.61	11.72	24.9%	1.21	0.98	19.5%	0.00	0.00	0.0%
1993	1.16	0.89	23.1%	14.70	10.90	25.8%	1.13	0.90	20.3%	0.00	0.00	0.0%
1994	1.06	0.81	23.8%	13.82	10.07	27.1%	1.05	0.83	21.1%	0.00	0.00	0.0%
1995	0.98	0.74	24.6%	12.92	9.22	28.7%	0.98	0.77	21.7%	0.00	0.00	0.0%
1996	0.90	0.67	25.3%	12.07	8.41	30.3%	0.92	0.72	22.1%	0.00	0.00	0.0%
1997	0.83	0.61	25.9%	11.26	7.67	31.8%	0.87	0.67	22.3%	0.00	0.00	0.0%
1998	0.76	0.56	26.4%	10.48	7.00	33.2%	0.82	0.64	22.3%	0.00	0.00	0.0%
1999	0.70	0.51	26.8%	9.77	6.41	34.4%	0.78	0.61	22.1%	0.00	0.00	0.0%
2000	0.66	0.48	27.6%	9.13	6.01	34.2%	0.74	0.58	21.9%	0.00	0.00	0.0%
2001	0.62	0.45	28.2%	8.52	5.54	35.0%	0.71	0.56	21.7%	0.00	0.00	0.0%
2002	0.59	0.42	28.5%	7.98	5.15	35.4%	0.68	0.54	21.5%	0.00	0.00	0.0%
2003	0.56	0.40	27.8%	7.45	4.79	35.8%	0.66	0.52	21.3%	0.00	0.00	0.0%
2004	0.53	0.39	27.6%	6.95	4.44	36.1%	0.64	0.51	21.0%	0.00	0.00	0.0%
2005	0.51	0.37	27.8%	6.50	4.13	36.4%	0.63	0.50	20.7%	0.00	0.00	0.0%
2006	0.49	0.36	27.9%	6.16	3.91	36.6%	0.62	0.49	20.5%	0.00	0.00	0.0%
2007	0.48	0.35	28.1%	5.87	3.71	36.7%	0.61	0.49	20.3%	0.00	0.00	0.0%
2008	0.47	0.34	28.3%	5.63	3.55	37.0%	0.60	0.48	20.1%	0.00	0.00	0.0%
2009	0.46	0.33	28.5%	5.45	3.43	37.1%	0.60	0.48	20.0%	0.00	0.00	0.0%
2010	0.46	0.33	28.6%	5.33	3.35	37.2%	0.60	0.48	19.9%	0.00	0.00	0.0%
2011	0.45	0.32	28.6%	5.24	3.28	37.3%	0.59	0.48	19.8%	0.00	0.00	0.0%
2012	0.45	0.32	28.7%	5.18	3.24	37.4%	0.59	0.47	19.7%	0.00	0.00	0.0%
2013	0.45	0.32	28.7%	5.13	3.21	37.4%	0.59	0.47	19.6%	0.00	0.00	0.0%
2014	0.45	0.32	28.7%	5.09	3.19	37.4%	0.59	0.47	19.6%	0.00	0.00	0.0%
2015	0.45	0.32	28.7%	5.06	3.16	37.4%	0.59	0.47	19.6%	0.00	0.00	0.0%
2016	0.44	0.32	28.7%	5.02	3.14	37.5%	0.59	0.47	19.5%	0.00	0.00	0.0%
2017	0.44	0.32	28.8%	4.98	3.11	37.5%	0.59	0.47	19.5%	0.00	0.00	0.0%
2018	0.44	0.31	28.8%	4.96	3.09	37.6%	0.59	0.47	19.5%	0.00	0.00	0.0%
2019	0.44	0.31	28.8%	4.95	3.09	37.6%	0.59	0.47	19.5%	0.00	0.00	0.0%
2020	0.44	0.31	28.8%	4.95	3.09	37.6%	0.59	0.47	19.5%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
Max efforts program, three years before first inspection, bi
**
** Output file: SENS_MAXEFFORT_NEW3_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
** 13:39
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.58	14.1%	30.42	25.05	17.7%	2.04	1.87	8.6%	0.00	0.00	0.0%
1985	2.71	2.26	16.7%	28.51	23.10	19.0%	1.92	1.72	10.3%	0.00	0.00	0.0%
1986	2.44	1.96	19.4%	26.53	21.02	20.8%	1.79	1.57	12.1%	0.00	0.00	0.0%
1987	2.23	1.76	21.1%	25.24	19.43	23.0%	1.68	1.45	13.7%	0.00	0.00	0.0%
1988	1.98	1.54	22.5%	23.44	17.86	23.8%	1.55	1.31	15.4%	0.00	0.00	0.0%
1989	1.78	1.36	23.6%	21.74	16.48	24.2%	1.46	1.21	16.9%	0.00	0.00	0.0%
1990	1.60	1.21	24.1%	19.91	15.20	23.6%	1.36	1.11	18.4%	0.00	0.00	0.0%
1991	1.49	1.12	25.3%	19.24	14.53	24.5%	1.31	1.05	19.6%	0.00	0.00	0.0%
1992	1.35	1.00	26.0%	17.78	13.41	24.6%	1.20	0.96	20.3%	0.00	0.00	0.0%
1993	1.24	0.92	26.2%	16.65	12.41	25.5%	1.13	0.90	21.0%	0.00	0.00	0.0%
1994	1.14	0.84	26.8%	15.62	11.37	27.2%	1.07	0.84	21.8%	0.00	0.00	0.0%
1995	1.05	0.76	27.8%	14.50	10.34	28.7%	1.03	0.80	22.4%	0.00	0.00	0.0%
1996	0.97	0.69	28.7%	13.45	9.40	30.1%	0.99	0.76	22.8%	0.00	0.00	0.0%
1997	0.89	0.63	29.5%	12.44	8.48	31.8%	0.97	0.74	23.1%	0.00	0.00	0.0%
1998	0.83	0.58	30.5%	11.60	7.71	33.5%	0.95	0.73	23.4%	0.00	0.00	0.0%
1999	0.77	0.53	31.2%	10.81	7.05	34.7%	0.94	0.72	23.6%	0.00	0.00	0.0%
2000	0.72	0.50	30.0%	10.04	6.52	35.1%	0.93	0.71	23.7%	0.00	0.00	0.0%
2001	0.69	0.48	30.8%	9.51	6.17	35.1%	0.93	0.71	23.7%	0.00	0.00	0.0%
2002	0.66	0.45	31.5%	9.02	5.76	36.1%	0.92	0.70	23.8%	0.00	0.00	0.0%
2003	0.63	0.44	30.7%	8.49	5.37	36.7%	0.91	0.70	23.7%	0.00	0.00	0.0%
2004	0.61	0.42	30.3%	7.97	5.01	37.2%	0.91	0.69	23.7%	0.00	0.00	0.0%
2005	0.58	0.41	30.4%	7.54	4.70	37.6%	0.90	0.69	23.8%	0.00	0.00	0.0%
2006	0.57	0.39	30.6%	7.19	4.46	38.0%	0.89	0.68	23.7%	0.00	0.00	0.0%
2007	0.55	0.38	30.7%	6.90	4.24	38.5%	0.89	0.68	23.6%	0.00	0.00	0.0%
2008	0.55	0.38	30.9%	6.73	4.11	38.9%	0.89	0.68	23.6%	0.00	0.00	0.0%
2009	0.54	0.37	31.0%	6.62	4.02	39.2%	0.89	0.68	23.6%	0.00	0.00	0.0%
2010	0.54	0.37	31.2%	6.55	3.96	39.5%	0.89	0.68	23.5%	0.00	0.00	0.0%
2011	0.54	0.37	31.2%	6.50	3.91	39.8%	0.89	0.68	23.5%	0.00	0.00	0.0%
2012	0.54	0.37	31.3%	6.46	3.87	40.0%	0.89	0.68	23.5%	0.00	0.00	0.0%
2013	0.53	0.37	31.3%	6.42	3.84	40.1%	0.89	0.68	23.5%	0.00	0.00	0.0%
2014	0.53	0.37	31.4%	6.39	3.82	40.2%	0.89	0.68	23.4%	0.00	0.00	0.0%
2015	0.53	0.36	31.4%	6.35	3.79	40.3%	0.89	0.68	23.4%	0.00	0.00	0.0%
2016	0.53	0.36	31.4%	6.31	3.77	40.3%	0.89	0.68	23.4%	0.00	0.00	0.0%
2017	0.53	0.36	31.4%	6.28	3.75	40.3%	0.89	0.68	23.4%	0.00	0.00	0.0%
2018	0.53	0.36	31.4%	6.25	3.73	40.3%	0.89	0.68	23.4%	0.00	0.00	0.0%
2019	0.53	0.36	31.4%	6.25	3.73	40.3%	0.89	0.68	23.4%	0.00	0.00	0.0%
2020	0.53	0.36	31.4%	6.25	3.73	40.3%	0.89	0.68	23.4%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
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** Max efforts program, three years before first inspection, bi
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** Output file: SENS_MAXEFFORT_NEW3_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:39
** Calendar Year I/M Benefits Medium Duty Vehicles
**
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Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.74	15.2%	32.80	26.50	19.2%	2.28	2.08	8.7%	0.00	0.00	0.0%
1985	2.96	2.42	18.3%	31.04	24.24	21.9%	2.16	1.92	10.8%	0.00	0.00	0.0%
1986	2.70	2.13	20.9%	29.25	22.17	24.2%	2.05	1.79	12.8%	0.00	0.00	0.0%
1987	2.45	1.89	22.9%	27.39	20.22	26.2%	1.97	1.68	14.8%	0.00	0.00	0.0%
1988	2.23	1.68	24.9%	25.65	18.45	28.1%	1.89	1.58	16.7%	0.00	0.00	0.0%
1989	2.04	1.49	26.8%	24.16	16.92	30.0%	1.83	1.49	18.4%	0.00	0.00	0.0%
1990	1.88	1.34	28.7%	22.93	15.54	32.2%	1.78	1.42	20.1%	0.00	0.00	0.0%
1991	1.74	1.21	30.3%	21.79	14.33	34.2%	1.73	1.36	21.3%	0.00	0.00	0.0%
1992	1.61	1.11	31.6%	20.74	13.27	36.0%	1.68	1.31	22.3%	0.00	0.00	0.0%
1993	1.50	1.01	32.7%	19.82	12.31	37.9%	1.65	1.27	23.1%	0.00	0.00	0.0%
1994	1.41	0.93	33.5%	18.91	11.44	39.5%	1.61	1.23	23.7%	0.00	0.00	0.0%
1995	1.32	0.87	34.4%	18.08	10.66	41.0%	1.59	1.21	24.2%	0.00	0.00	0.0%
1996	1.25	0.81	35.1%	17.36	9.99	42.5%	1.57	1.18	24.5%	0.00	0.00	0.0%
1997	1.19	0.76	35.8%	16.73	9.42	43.7%	1.55	1.17	24.7%	0.00	0.00	0.0%
1998	1.13	0.72	36.5%	16.16	8.92	44.8%	1.54	1.16	24.9%	0.00	0.00	0.0%
1999	1.08	0.68	37.3%	15.67	8.50	45.8%	1.53	1.15	25.0%	0.00	0.00	0.0%
2000	1.04	0.66	36.5%	15.23	8.24	45.9%	1.52	1.14	25.1%	0.00	0.00	0.0%
2001	1.00	0.63	37.0%	14.86	8.05	45.8%	1.51	1.13	25.1%	0.00	0.00	0.0%
2002	0.96	0.60	37.3%	14.55	7.81	46.3%	1.51	1.13	25.1%	0.00	0.00	0.0%
2003	0.94	0.59	36.7%	14.36	7.61	47.0%	1.50	1.12	25.2%	0.00	0.00	0.0%
2004	0.92	0.59	36.1%	14.19	7.44	47.5%	1.49	1.12	25.2%	0.00	0.00	0.0%
2005	0.90	0.57	36.3%	14.04	7.30	48.0%	1.49	1.11	25.1%	0.00	0.00	0.0%
2006	0.89	0.57	36.4%	13.95	7.20	48.4%	1.48	1.11	25.1%	0.00	0.00	0.0%
2007	0.88	0.56	36.6%	13.87	7.10	48.8%	1.48	1.11	25.1%	0.00	0.00	0.0%
2008	0.88	0.56	36.7%	13.82	7.03	49.1%	1.47	1.10	25.1%	0.00	0.00	0.0%
2009	0.88	0.55	36.8%	13.79	6.98	49.4%	1.47	1.10	25.0%	0.00	0.00	0.0%
2010	0.87	0.55	36.9%	13.78	6.95	49.6%	1.47	1.10	24.9%	0.00	0.00	0.0%
2011	0.87	0.55	37.0%	13.77	6.92	49.7%	1.47	1.10	24.9%	0.00	0.00	0.0%
2012	0.87	0.55	37.0%	13.76	6.92	49.7%	1.47	1.10	24.9%	0.00	0.00	0.0%
2013	0.87	0.55	37.0%	13.76	6.91	49.8%	1.47	1.10	24.8%	0.00	0.00	0.0%
2014	0.87	0.55	37.0%	13.75	6.90	49.8%	1.47	1.10	24.7%	0.00	0.00	0.0%
2015	0.87	0.55	37.0%	13.75	6.89	49.9%	1.47	1.10	24.7%	0.00	0.00	0.0%
2016	0.87	0.55	37.0%	13.74	6.88	49.9%	1.47	1.10	24.6%	0.00	0.00	0.0%
2017	0.87	0.55	37.0%	13.74	6.88	49.9%	1.47	1.11	24.6%	0.00	0.00	0.0%
2018	0.87	0.55	37.0%	13.74	6.88	49.9%	1.47	1.11	24.6%	0.00	0.00	0.0%
2019	0.87	0.55	37.0%	13.74	6.88	49.9%	1.47	1.11	24.6%	0.00	0.00	0.0%
2020	0.87	0.55	37.0%	13.74	6.88	49.9%	1.47	1.11	24.6%	0.00	0.00	0.0%

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** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
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** Max efforts program, four years before first inspection, bie
**
**      Output file: SENS_MAXEFFORT_NEW4_BIENNIAL.OUT
**
** Date of this run:  1/15/  91
**                   13:42
**
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THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	4
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, four years before first inspection, bie
**
** Output file: SENS_MAXEFFORT_NEW4_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
** 13:42
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.37	14.7%	28.39	24.19	14.8%	2.01	1.84	8.3%	0.00	0.00	0.0%
1985	2.53	2.12	16.1%	26.40	21.96	16.8%	1.90	1.71	9.7%	0.00	0.00	0.0%
1986	2.29	1.89	17.1%	24.48	19.92	18.7%	1.79	1.59	11.3%	0.00	0.00	0.0%
1987	2.06	1.69	18.0%	22.65	18.08	20.2%	1.69	1.48	12.8%	0.00	0.00	0.0%
1988	1.86	1.50	19.1%	20.93	16.45	21.4%	1.60	1.37	14.3%	0.00	0.00	0.0%
1989	1.68	1.34	20.2%	19.32	14.98	22.5%	1.51	1.27	15.9%	0.00	0.00	0.0%
1990	1.52	1.20	21.0%	17.93	13.74	23.4%	1.41	1.16	17.3%	0.00	0.00	0.0%
1991	1.38	1.08	21.7%	16.68	12.65	24.1%	1.31	1.07	18.6%	0.00	0.00	0.0%
1992	1.26	0.98	22.4%	15.61	11.73	24.9%	1.21	0.98	19.5%	0.00	0.00	0.0%
1993	1.16	0.89	23.0%	14.70	10.92	25.7%	1.13	0.90	20.3%	0.00	0.00	0.0%
1994	1.06	0.81	23.6%	13.82	10.10	27.0%	1.05	0.83	21.0%	0.00	0.00	0.0%
1995	0.98	0.74	24.3%	12.92	9.25	28.4%	0.98	0.77	21.5%	0.00	0.00	0.0%
1996	0.90	0.67	25.0%	12.07	8.45	30.0%	0.92	0.72	21.9%	0.00	0.00	0.0%
1997	0.83	0.62	25.5%	11.26	7.71	31.5%	0.87	0.68	22.1%	0.00	0.00	0.0%
1998	0.76	0.56	26.0%	10.48	7.04	32.8%	0.82	0.64	22.0%	0.00	0.00	0.0%
1999	0.70	0.52	26.3%	9.77	6.46	33.9%	0.78	0.61	21.8%	0.00	0.00	0.0%
2000	0.66	0.48	27.0%	9.13	6.06	33.6%	0.74	0.58	21.6%	0.00	0.00	0.0%
2001	0.62	0.45	27.6%	8.52	5.59	34.4%	0.71	0.56	21.3%	0.00	0.00	0.0%
2002	0.59	0.43	27.8%	7.98	5.20	34.8%	0.68	0.54	21.1%	0.00	0.00	0.0%
2003	0.56	0.41	27.1%	7.45	4.83	35.1%	0.66	0.52	20.8%	0.00	0.00	0.0%
2004	0.53	0.39	26.8%	6.95	4.49	35.4%	0.64	0.51	20.5%	0.00	0.00	0.0%
2005	0.51	0.37	26.9%	6.50	4.18	35.7%	0.63	0.50	20.2%	0.00	0.00	0.0%
2006	0.49	0.36	27.1%	6.16	3.95	35.8%	0.62	0.49	20.0%	0.00	0.00	0.0%
2007	0.48	0.35	27.3%	5.87	3.75	36.0%	0.61	0.49	19.8%	0.00	0.00	0.0%
2008	0.47	0.34	27.5%	5.63	3.59	36.3%	0.60	0.49	19.6%	0.00	0.00	0.0%
2009	0.46	0.33	27.6%	5.45	3.47	36.4%	0.60	0.48	19.5%	0.00	0.00	0.0%
2010	0.46	0.33	27.7%	5.33	3.38	36.6%	0.60	0.48	19.4%	0.00	0.00	0.0%
2011	0.45	0.33	27.8%	5.24	3.32	36.7%	0.59	0.48	19.3%	0.00	0.00	0.0%
2012	0.45	0.33	27.8%	5.18	3.28	36.7%	0.59	0.48	19.2%	0.00	0.00	0.0%
2013	0.45	0.32	27.8%	5.13	3.25	36.7%	0.59	0.48	19.1%	0.00	0.00	0.0%
2014	0.45	0.32	27.8%	5.09	3.23	36.7%	0.59	0.47	19.1%	0.00	0.00	0.0%
2015	0.45	0.32	27.8%	5.06	3.20	36.7%	0.59	0.47	19.0%	0.00	0.00	0.0%
2016	0.44	0.32	27.8%	5.02	3.17	36.8%	0.59	0.47	19.0%	0.00	0.00	0.0%
2017	0.44	0.32	27.9%	4.98	3.15	36.9%	0.59	0.47	19.0%	0.00	0.00	0.0%
2018	0.44	0.32	27.9%	4.96	3.13	36.9%	0.59	0.47	19.0%	0.00	0.00	0.0%
2019	0.44	0.32	27.9%	4.95	3.12	37.0%	0.59	0.47	19.0%	0.00	0.00	0.0%
2020	0.44	0.32	27.9%	4.95	3.12	37.0%	0.59	0.47	19.0%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
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** Max efforts program, four years before first inspection, bie
**
** Output file: SENS_MAXEFFORT_NEW4_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:42
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.58	14.1%	30.42	25.05	17.7%	2.04	1.87	8.6%	0.00	0.00	0.0%
1985	2.71	2.26	16.7%	28.51	23.10	19.0%	1.92	1.72	10.3%	0.00	0.00	0.0%
1986	2.44	1.96	19.4%	26.53	21.02	20.8%	1.79	1.57	12.1%	0.00	0.00	0.0%
1987	2.23	1.76	21.1%	25.24	19.43	23.0%	1.68	1.45	13.7%	0.00	0.00	0.0%
1988	1.98	1.54	22.5%	23.44	17.86	23.8%	1.55	1.31	15.4%	0.00	0.00	0.0%
1989	1.78	1.36	23.6%	21.74	16.48	24.2%	1.46	1.21	16.9%	0.00	0.00	0.0%
1990	1.60	1.21	24.1%	19.91	15.20	23.6%	1.36	1.11	18.4%	0.00	0.00	0.0%
1991	1.49	1.12	25.3%	19.24	14.53	24.5%	1.31	1.05	19.6%	0.00	0.00	0.0%
1992	1.35	1.00	25.9%	17.78	13.42	24.5%	1.20	0.96	20.2%	0.00	0.00	0.0%
1993	1.24	0.92	26.1%	16.65	12.43	25.3%	1.13	0.90	20.9%	0.00	0.00	0.0%
1994	1.14	0.84	26.6%	15.62	11.41	26.9%	1.07	0.84	21.6%	0.00	0.00	0.0%
1995	1.05	0.76	27.5%	14.50	10.39	28.3%	1.03	0.80	22.1%	0.00	0.00	0.0%
1996	0.97	0.69	28.3%	13.45	9.46	29.7%	0.99	0.77	22.5%	0.00	0.00	0.0%
1997	0.89	0.63	29.0%	12.44	8.55	31.3%	0.97	0.75	22.7%	0.00	0.00	0.0%
1998	0.83	0.58	29.9%	11.60	7.78	32.9%	0.95	0.73	23.0%	0.00	0.00	0.0%
1999	0.77	0.54	30.5%	10.81	7.13	34.0%	0.94	0.72	23.1%	0.00	0.00	0.0%
2000	0.72	0.51	29.2%	10.04	6.60	34.3%	0.93	0.72	23.0%	0.00	0.00	0.0%
2001	0.69	0.48	29.9%	9.51	6.26	34.2%	0.93	0.71	23.1%	0.00	0.00	0.0%
2002	0.66	0.46	30.5%	9.02	5.86	35.0%	0.92	0.71	23.0%	0.00	0.00	0.0%
2003	0.63	0.44	29.6%	8.49	5.47	35.6%	0.91	0.70	22.9%	0.00	0.00	0.0%
2004	0.61	0.43	29.1%	7.97	5.10	36.0%	0.91	0.70	22.9%	0.00	0.00	0.0%
2005	0.58	0.41	29.2%	7.54	4.79	36.4%	0.90	0.69	22.9%	0.00	0.00	0.0%
2006	0.57	0.40	29.3%	7.19	4.55	36.8%	0.89	0.69	22.9%	0.00	0.00	0.0%
2007	0.55	0.39	29.4%	6.90	4.33	37.3%	0.89	0.69	22.8%	0.00	0.00	0.0%
2008	0.55	0.38	29.6%	6.73	4.20	37.6%	0.89	0.69	22.8%	0.00	0.00	0.0%
2009	0.54	0.38	29.8%	6.62	4.11	37.9%	0.89	0.69	22.7%	0.00	0.00	0.0%
2010	0.54	0.38	29.9%	6.55	4.05	38.2%	0.89	0.69	22.7%	0.00	0.00	0.0%
2011	0.54	0.38	30.0%	6.50	4.00	38.5%	0.89	0.69	22.6%	0.00	0.00	0.0%
2012	0.54	0.37	30.0%	6.46	3.96	38.7%	0.89	0.69	22.6%	0.00	0.00	0.0%
2013	0.53	0.37	30.0%	6.42	3.93	38.8%	0.89	0.69	22.6%	0.00	0.00	0.0%
2014	0.53	0.37	30.0%	6.39	3.90	38.9%	0.89	0.69	22.5%	0.00	0.00	0.0%
2015	0.53	0.37	30.1%	6.35	3.88	38.9%	0.89	0.69	22.5%	0.00	0.00	0.0%
2016	0.53	0.37	30.1%	6.31	3.85	39.0%	0.89	0.69	22.5%	0.00	0.00	0.0%
2017	0.53	0.37	30.1%	6.28	3.83	39.0%	0.89	0.69	22.5%	0.00	0.00	0.0%
2018	0.53	0.37	30.1%	6.25	3.82	39.0%	0.89	0.69	22.5%	0.00	0.00	0.0%
2019	0.53	0.37	30.1%	6.25	3.81	39.0%	0.89	0.69	22.5%	0.00	0.00	0.0%
2020	0.53	0.37	30.1%	6.25	3.81	39.0%	0.89	0.69	22.5%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, four years before first inspection, bie
**
** Output file: SENS_MAXEFFORT_NEW4_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
** 13:42
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.74	15.2%	32.80	26.50	19.2%	2.28	2.08	8.7%	0.00	0.00	0.0%
1985	2.96	2.42	18.3%	31.04	24.24	21.9%	2.16	1.92	10.8%	0.00	0.00	0.0%
1986	2.70	2.13	20.9%	29.25	22.17	24.2%	2.05	1.79	12.8%	0.00	0.00	0.0%
1987	2.45	1.89	22.9%	27.39	20.22	26.2%	1.97	1.68	14.8%	0.00	0.00	0.0%
1988	2.23	1.68	24.9%	25.65	18.45	28.1%	1.89	1.58	16.7%	0.00	0.00	0.0%
1989	2.04	1.49	26.8%	24.16	16.92	30.0%	1.83	1.49	18.4%	0.00	0.00	0.0%
1990	1.88	1.34	28.7%	22.93	15.55	32.2%	1.78	1.42	20.1%	0.00	0.00	0.0%
1991	1.74	1.22	30.2%	21.79	14.35	34.1%	1.73	1.36	21.3%	0.00	0.00	0.0%
1992	1.61	1.11	31.4%	20.74	13.32	35.7%	1.68	1.31	22.1%	0.00	0.00	0.0%
1993	1.50	1.02	32.4%	19.82	12.40	37.4%	1.65	1.27	22.9%	0.00	0.00	0.0%
1994	1.41	0.94	33.1%	18.91	11.56	38.9%	1.61	1.24	23.3%	0.00	0.00	0.0%
1995	1.32	0.87	33.8%	18.08	10.82	40.2%	1.59	1.21	23.7%	0.00	0.00	0.0%
1996	1.25	0.82	34.4%	17.36	10.17	41.4%	1.57	1.19	23.9%	0.00	0.00	0.0%
1997	1.19	0.77	34.9%	16.73	9.63	42.5%	1.55	1.18	24.0%	0.00	0.00	0.0%
1998	1.13	0.73	35.5%	16.16	9.16	43.3%	1.54	1.17	24.1%	0.00	0.00	0.0%
1999	1.08	0.69	36.1%	15.67	8.75	44.1%	1.53	1.16	24.1%	0.00	0.00	0.0%
2000	1.04	0.67	35.2%	15.23	8.51	44.1%	1.52	1.15	24.2%	0.00	0.00	0.0%
2001	1.00	0.64	35.5%	14.86	8.33	43.9%	1.51	1.15	24.1%	0.00	0.00	0.0%
2002	0.96	0.62	35.7%	14.55	8.10	44.3%	1.51	1.14	24.1%	0.00	0.00	0.0%
2003	0.94	0.61	35.0%	14.36	7.92	44.8%	1.50	1.14	24.1%	0.00	0.00	0.0%
2004	0.92	0.60	34.4%	14.19	7.76	45.3%	1.49	1.13	24.1%	0.00	0.00	0.0%
2005	0.90	0.59	34.5%	14.04	7.62	45.8%	1.49	1.13	24.0%	0.00	0.00	0.0%
2006	0.89	0.58	34.6%	13.95	7.53	46.1%	1.48	1.13	24.0%	0.00	0.00	0.0%
2007	0.88	0.58	34.7%	13.87	7.43	46.4%	1.48	1.12	24.0%	0.00	0.00	0.0%
2008	0.88	0.57	34.8%	13.82	7.37	46.7%	1.47	1.12	23.9%	0.00	0.00	0.0%
2009	0.88	0.57	34.9%	13.79	7.32	46.9%	1.47	1.12	23.8%	0.00	0.00	0.0%
2010	0.87	0.57	34.9%	13.78	7.29	47.1%	1.47	1.12	23.7%	0.00	0.00	0.0%
2011	0.87	0.57	35.0%	13.77	7.27	47.2%	1.47	1.12	23.7%	0.00	0.00	0.0%
2012	0.87	0.57	35.0%	13.76	7.27	47.2%	1.47	1.12	23.6%	0.00	0.00	0.0%
2013	0.87	0.57	34.9%	13.76	7.26	47.2%	1.47	1.12	23.6%	0.00	0.00	0.0%
2014	0.87	0.57	34.9%	13.75	7.26	47.2%	1.47	1.12	23.5%	0.00	0.00	0.0%
2015	0.87	0.57	34.9%	13.75	7.25	47.3%	1.47	1.12	23.4%	0.00	0.00	0.0%
2016	0.87	0.57	34.9%	13.74	7.24	47.3%	1.47	1.12	23.4%	0.00	0.00	0.0%
2017	0.87	0.57	34.9%	13.74	7.23	47.3%	1.47	1.12	23.3%	0.00	0.00	0.0%
2018	0.87	0.57	34.9%	13.74	7.23	47.4%	1.47	1.12	23.3%	0.00	0.00	0.0%
2019	0.87	0.57	34.9%	13.74	7.23	47.4%	1.47	1.12	23.3%	0.00	0.00	0.0%
2020	0.87	0.57	34.9%	13.74	7.23	47.4%	1.47	1.12	23.3%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, five years before first inspection, bie
**
**      Output file: SENS_MAXEFFORT_NEW5_BIENNIAL.OUT
**
** Date of this run:  1/15/  91
**                   13:45
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	5
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, five years before first inspection, bie
**
** Output file: SENS_MAXEFFORT_NEW5_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
** 13:45
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.37	14.7%	28.39	24.19	14.8%	2.01	1.84	8.3%	0.00	0.00	0.0%
1985	2.53	2.12	16.1%	26.40	21.96	16.8%	1.90	1.71	9.7%	0.00	0.00	0.0%
1986	2.29	1.89	17.1%	24.48	19.92	18.7%	1.79	1.59	11.3%	0.00	0.00	0.0%
1987	2.06	1.69	18.0%	22.65	18.08	20.2%	1.69	1.48	12.8%	0.00	0.00	0.0%
1988	1.86	1.50	19.1%	20.93	16.45	21.4%	1.60	1.37	14.3%	0.00	0.00	0.0%
1989	1.68	1.34	20.2%	19.32	14.98	22.5%	1.51	1.27	15.9%	0.00	0.00	0.0%
1990	1.52	1.20	21.0%	17.93	13.75	23.4%	1.41	1.16	17.3%	0.00	0.00	0.0%
1991	1.38	1.08	21.7%	16.68	12.66	24.1%	1.31	1.07	18.5%	0.00	0.00	0.0%
1992	1.26	0.98	22.3%	15.61	11.74	24.8%	1.21	0.98	19.4%	0.00	0.00	0.0%
1993	1.16	0.89	22.8%	14.70	10.94	25.6%	1.13	0.90	20.2%	0.00	0.00	0.0%
1994	1.06	0.81	23.4%	13.82	10.13	26.7%	1.05	0.83	20.9%	0.00	0.00	0.0%
1995	0.98	0.74	24.0%	12.92	9.29	28.1%	0.98	0.77	21.3%	0.00	0.00	0.0%
1996	0.90	0.68	24.6%	12.07	8.50	29.6%	0.92	0.72	21.6%	0.00	0.00	0.0%
1997	0.83	0.62	25.0%	11.26	7.77	31.0%	0.87	0.68	21.7%	0.00	0.00	0.0%
1998	0.76	0.57	25.4%	10.48	7.11	32.2%	0.82	0.64	21.6%	0.00	0.00	0.0%
1999	0.70	0.52	25.6%	9.77	6.53	33.2%	0.78	0.61	21.4%	0.00	0.00	0.0%
2000	0.66	0.49	26.2%	9.13	6.13	32.8%	0.74	0.59	21.0%	0.00	0.00	0.0%
2001	0.62	0.46	26.6%	8.52	5.67	33.5%	0.71	0.56	20.7%	0.00	0.00	0.0%
2002	0.59	0.43	26.8%	7.98	5.28	33.8%	0.68	0.54	20.4%	0.00	0.00	0.0%
2003	0.56	0.42	25.9%	7.45	4.91	34.1%	0.66	0.53	20.1%	0.00	0.00	0.0%
2004	0.53	0.40	25.7%	6.95	4.57	34.3%	0.64	0.51	19.8%	0.00	0.00	0.0%
2005	0.51	0.38	25.7%	6.50	4.26	34.5%	0.63	0.50	19.4%	0.00	0.00	0.0%
2006	0.49	0.37	25.8%	6.16	4.03	34.6%	0.62	0.50	19.2%	0.00	0.00	0.0%
2007	0.48	0.36	26.0%	5.87	3.83	34.8%	0.61	0.49	19.0%	0.00	0.00	0.0%
2008	0.47	0.35	26.2%	5.63	3.66	35.0%	0.60	0.49	18.8%	0.00	0.00	0.0%
2009	0.46	0.34	26.3%	5.45	3.54	35.1%	0.60	0.49	18.7%	0.00	0.00	0.0%
2010	0.46	0.34	26.4%	5.33	3.45	35.3%	0.60	0.49	18.5%	0.00	0.00	0.0%
2011	0.45	0.33	26.5%	5.24	3.39	35.4%	0.59	0.48	18.4%	0.00	0.00	0.0%
2012	0.45	0.33	26.5%	5.18	3.35	35.4%	0.59	0.48	18.3%	0.00	0.00	0.0%
2013	0.45	0.33	26.5%	5.13	3.32	35.4%	0.59	0.48	18.3%	0.00	0.00	0.0%
2014	0.45	0.33	26.4%	5.09	3.29	35.3%	0.59	0.48	18.2%	0.00	0.00	0.0%
2015	0.45	0.33	26.5%	5.06	3.27	35.4%	0.59	0.48	18.2%	0.00	0.00	0.0%
2016	0.44	0.33	26.5%	5.02	3.24	35.5%	0.59	0.48	18.2%	0.00	0.00	0.0%
2017	0.44	0.33	26.5%	4.98	3.21	35.6%	0.59	0.48	18.2%	0.00	0.00	0.0%
2018	0.44	0.32	26.6%	4.96	3.19	35.6%	0.59	0.48	18.1%	0.00	0.00	0.0%
2019	0.44	0.32	26.6%	4.95	3.18	35.7%	0.59	0.48	18.1%	0.00	0.00	0.0%
2020	0.44	0.32	26.6%	4.95	3.18	35.7%	0.59	0.48	18.1%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
* Max efforts program, five years before first inspection, bie
**
** Output file: SENS_MAXEFFORT_NEW5_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
**   13:45
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.58	14.1%	30.42	25.05	17.7%	2.04	1.87	8.6%	0.00	0.00	0.0%
1985	2.71	2.26	16.7%	28.51	23.10	19.0%	1.92	1.72	10.3%	0.00	0.00	0.0%
1986	2.44	1.96	19.4%	26.53	21.02	20.8%	1.79	1.57	12.1%	0.00	0.00	0.0%
1987	2.23	1.76	21.1%	25.24	19.43	23.0%	1.68	1.45	13.7%	0.00	0.00	0.0%
1988	1.98	1.54	22.5%	23.44	17.86	23.8%	1.55	1.31	15.4%	0.00	0.00	0.0%
1989	1.78	1.36	23.6%	21.74	16.48	24.2%	1.46	1.21	16.9%	0.00	0.00	0.0%
1990	1.60	1.21	24.0%	19.91	15.21	23.6%	1.36	1.11	18.4%	0.00	0.00	0.0%
1991	1.49	1.12	25.2%	19.24	14.54	24.4%	1.31	1.05	19.5%	0.00	0.00	0.0%
1992	1.35	1.00	25.8%	17.78	13.44	24.4%	1.20	0.96	20.1%	0.00	0.00	0.0%
1993	1.24	0.92	25.9%	16.65	12.47	25.1%	1.13	0.90	20.7%	0.00	0.00	0.0%
1994	1.14	0.84	26.3%	15.62	11.47	26.6%	1.07	0.85	21.4%	0.00	0.00	0.0%
1995	1.05	0.77	27.1%	14.50	10.46	27.8%	1.03	0.81	21.8%	0.00	0.00	0.0%
1996	0.97	0.70	27.7%	13.45	9.55	29.0%	0.99	0.77	22.0%	0.00	0.00	0.0%
1997	0.89	0.64	28.2%	12.44	8.66	30.4%	0.97	0.75	22.0%	0.00	0.00	0.0%
1998	0.83	0.59	29.2%	11.60	7.88	32.1%	0.95	0.74	22.4%	0.00	0.00	0.0%
1999	0.77	0.54	29.6%	10.81	7.24	33.0%	0.94	0.73	22.3%	0.00	0.00	0.0%
2000	0.72	0.52	28.1%	10.04	6.73	33.0%	0.93	0.73	22.2%	0.00	0.00	0.0%
2001	0.69	0.49	28.5%	9.51	6.40	32.8%	0.93	0.72	22.1%	0.00	0.00	0.0%
2002	0.66	0.47	29.0%	9.02	6.00	33.5%	0.92	0.72	22.0%	0.00	0.00	0.0%
2003	0.63	0.45	28.0%	8.49	5.62	33.9%	0.91	0.71	21.8%	0.00	0.00	0.0%
2004	0.61	0.44	27.5%	7.97	5.25	34.2%	0.91	0.71	21.7%	0.00	0.00	0.0%
2005	0.58	0.42	27.6%	7.54	4.93	34.5%	0.90	0.70	21.7%	0.00	0.00	0.0%
2006	0.57	0.41	27.6%	7.19	4.68	34.9%	0.89	0.70	21.7%	0.00	0.00	0.0%
2007	0.55	0.40	27.7%	6.90	4.46	35.3%	0.89	0.70	21.6%	0.00	0.00	0.0%
2008	0.55	0.39	27.9%	6.73	4.33	35.6%	0.89	0.70	21.5%	0.00	0.00	0.0%
2009	0.54	0.39	28.0%	6.62	4.24	35.9%	0.89	0.70	21.5%	0.00	0.00	0.0%
2010	0.54	0.39	28.1%	6.55	4.18	36.2%	0.89	0.70	21.4%	0.00	0.00	0.0%
2011	0.54	0.39	28.2%	6.50	4.13	36.5%	0.89	0.70	21.4%	0.00	0.00	0.0%
2012	0.54	0.38	28.2%	6.46	4.09	36.6%	0.89	0.70	21.3%	0.00	0.00	0.0%
2013	0.53	0.38	28.2%	6.42	4.06	36.7%	0.89	0.70	21.3%	0.00	0.00	0.0%
2014	0.53	0.38	28.2%	6.39	4.04	36.8%	0.89	0.70	21.2%	0.00	0.00	0.0%
2015	0.53	0.38	28.2%	6.35	4.01	36.8%	0.89	0.70	21.2%	0.00	0.00	0.0%
2016	0.53	0.38	28.2%	6.31	3.99	36.9%	0.89	0.70	21.2%	0.00	0.00	0.0%
2017	0.53	0.38	28.3%	6.28	3.96	36.9%	0.89	0.70	21.2%	0.00	0.00	0.0%
2018	0.53	0.38	28.3%	6.25	3.95	36.9%	0.89	0.70	21.2%	0.00	0.00	0.0%
2019	0.53	0.38	28.3%	6.25	3.94	36.9%	0.89	0.70	21.2%	0.00	0.00	0.0%
2020	0.53	0.38	28.3%	6.25	3.94	36.9%	0.89	0.70	21.2%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
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** Max efforts program, five years before first inspection, bie
**
** Output file: SENS_MAXEFFORT_NEW5_BIENNIAL.OUT
**
** Date of this run: 1/15/ 91
** 13:45
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.74	15.2%	32.80	26.50	19.2%	2.28	2.08	8.7%	0.00	0.00	0.0%
1985	2.96	2.42	18.3%	31.04	24.24	21.9%	2.16	1.92	10.8%	0.00	0.00	0.0%
1986	2.70	2.13	20.9%	29.25	22.17	24.2%	2.05	1.79	12.8%	0.00	0.00	0.0%
1987	2.45	1.89	22.9%	27.39	20.22	26.2%	1.97	1.68	14.8%	0.00	0.00	0.0%
1988	2.23	1.68	24.9%	25.65	18.45	28.1%	1.89	1.58	16.7%	0.00	0.00	0.0%
1989	2.04	1.49	26.8%	24.16	16.92	30.0%	1.83	1.49	18.4%	0.00	0.00	0.0%
1990	1.88	1.34	28.7%	22.93	15.55	32.2%	1.78	1.42	20.1%	0.00	0.00	0.0%
1991	1.74	1.22	30.1%	21.79	14.38	34.0%	1.73	1.36	21.2%	0.00	0.00	0.0%
1992	1.61	1.11	31.2%	20.74	13.39	35.4%	1.68	1.32	21.9%	0.00	0.00	0.0%
1993	1.50	1.02	32.0%	19.82	12.51	36.9%	1.65	1.28	22.5%	0.00	0.00	0.0%
1994	1.41	0.95	32.5%	18.91	11.71	38.1%	1.61	1.25	22.8%	0.00	0.00	0.0%
1995	1.32	0.88	33.1%	18.08	11.01	39.1%	1.59	1.22	23.1%	0.00	0.00	0.0%
1996	1.25	0.83	33.5%	17.36	10.40	40.1%	1.57	1.21	23.1%	0.00	0.00	0.0%
1997	1.19	0.79	33.8%	16.73	9.89	40.9%	1.55	1.19	23.1%	0.00	0.00	0.0%
1998	1.13	0.74	34.2%	16.16	9.45	41.5%	1.54	1.18	23.1%	0.00	0.00	0.0%
1999	1.08	0.71	34.6%	15.67	9.08	42.1%	1.53	1.18	23.0%	0.00	0.00	0.0%
2000	1.04	0.69	33.6%	15.23	8.86	41.8%	1.52	1.17	23.0%	0.00	0.00	0.0%
2001	1.00	0.66	33.7%	14.86	8.70	41.4%	1.51	1.17	22.9%	0.00	0.00	0.0%
2002	0.96	0.63	33.7%	14.55	8.49	41.7%	1.51	1.16	22.8%	0.00	0.00	0.0%
2003	0.94	0.63	32.9%	14.36	8.31	42.1%	1.50	1.16	22.7%	0.00	0.00	0.0%
2004	0.92	0.62	32.2%	14.19	8.16	42.5%	1.49	1.16	22.6%	0.00	0.00	0.0%
2005	0.90	0.61	32.2%	14.04	8.03	42.8%	1.49	1.15	22.6%	0.00	0.00	0.0%
2006	0.89	0.60	32.2%	13.95	7.95	43.0%	1.48	1.15	22.5%	0.00	0.00	0.0%
2007	0.88	0.60	32.3%	13.87	7.86	43.3%	1.48	1.14	22.5%	0.00	0.00	0.0%
2008	0.88	0.59	32.3%	13.82	7.80	43.6%	1.47	1.14	22.4%	0.00	0.00	0.0%
2009	0.88	0.59	32.4%	13.79	7.76	43.8%	1.47	1.14	22.3%	0.00	0.00	0.0%
2010	0.87	0.59	32.4%	13.78	7.73	43.9%	1.47	1.14	22.2%	0.00	0.00	0.0%
2011	0.87	0.59	32.4%	13.77	7.72	44.0%	1.47	1.14	22.1%	0.00	0.00	0.0%
2012	0.87	0.59	32.4%	13.76	7.72	43.9%	1.47	1.14	22.0%	0.00	0.00	0.0%
2013	0.87	0.59	32.3%	13.76	7.72	43.9%	1.47	1.15	21.9%	0.00	0.00	0.0%
2014	0.87	0.59	32.3%	13.75	7.72	43.9%	1.47	1.15	21.8%	0.00	0.00	0.0%
2015	0.87	0.59	32.3%	13.75	7.71	43.9%	1.47	1.15	21.8%	0.00	0.00	0.0%
2016	0.87	0.59	32.3%	13.74	7.70	44.0%	1.47	1.15	21.7%	0.00	0.00	0.0%
2017	0.87	0.59	32.3%	13.74	7.69	44.0%	1.47	1.15	21.7%	0.00	0.00	0.0%
2018	0.87	0.59	32.3%	13.74	7.69	44.0%	1.47	1.15	21.7%	0.00	0.00	0.0%
2019	0.87	0.59	32.3%	13.74	7.69	44.0%	1.47	1.15	21.7%	0.00	0.00	0.0%
2020	0.87	0.59	32.3%	13.74	7.69	44.0%	1.47	1.15	21.7%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
 *
** Max efforts program, idle inspections, stricter standards
**
**      Output file: SENS_MAXEFFORT_IDLE_STRICTER.OUT
**
** Date of this run:  1/15/  91
**                   14: 9
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, idle inspections, stricter standards
**
** Output file: SENS_MAXEFFORT_IDLE_STRICTER.OUT
**
** Date of this run: 1/15/ 91
**   14: 9
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.3%	24.48	18.50	24.4%	1.79	1.53	14.8%	0.00	0.00	0.0%
1987	2.06	1.58	23.1%	22.65	16.54	27.0%	1.69	1.41	17.0%	0.00	0.00	0.0%
1988	1.86	1.39	25.0%	20.93	14.83	29.2%	1.60	1.29	19.1%	0.00	0.00	0.0%
1989	1.68	1.22	27.0%	19.32	13.32	31.1%	1.51	1.19	21.1%	0.00	0.00	0.0%
1990	1.52	1.09	28.4%	17.93	12.10	32.5%	1.41	1.09	22.9%	0.00	0.00	0.0%
1991	1.38	0.97	29.6%	16.68	11.07	33.6%	1.31	0.99	24.3%	0.00	0.00	0.0%
1992	1.26	0.87	30.6%	15.61	10.24	34.4%	1.21	0.91	25.2%	0.00	0.00	0.0%
1993	1.16	0.80	31.2%	14.70	9.54	35.1%	1.13	0.84	25.8%	0.00	0.00	0.0%
1994	1.06	0.73	31.7%	13.82	8.84	36.0%	1.05	0.77	26.2%	0.00	0.00	0.0%
1995	0.98	0.66	32.2%	12.92	8.13	37.0%	0.98	0.72	26.3%	0.00	0.00	0.0%
1996	0.90	0.61	32.4%	12.07	7.47	38.1%	0.92	0.68	26.0%	0.00	0.00	0.0%
1997	0.83	0.56	32.5%	11.26	6.88	38.9%	0.87	0.65	25.4%	0.00	0.00	0.0%
1998	0.76	0.51	32.4%	10.48	6.34	39.5%	0.82	0.62	24.5%	0.00	0.00	0.0%
1999	0.70	0.48	32.2%	9.77	5.87	39.9%	0.78	0.60	23.4%	0.00	0.00	0.0%
2000	0.66	0.45	32.3%	9.13	5.58	38.9%	0.74	0.58	22.3%	0.00	0.00	0.0%
2001	0.62	0.42	32.2%	8.52	5.19	39.1%	0.71	0.56	21.3%	0.00	0.00	0.0%
2002	0.59	0.40	31.9%	7.98	4.86	39.0%	0.68	0.54	20.4%	0.00	0.00	0.0%
2003	0.56	0.39	30.4%	7.45	4.56	38.9%	0.66	0.53	19.4%	0.00	0.00	0.0%
2004	0.53	0.37	29.7%	6.95	4.26	38.7%	0.64	0.52	18.6%	0.00	0.00	0.0%
2005	0.51	0.36	29.4%	6.50	3.98	38.7%	0.63	0.51	17.9%	0.00	0.00	0.0%
2006	0.49	0.35	29.2%	6.16	3.78	38.5%	0.62	0.51	17.4%	0.00	0.00	0.0%
2007	0.48	0.34	29.1%	5.87	3.61	38.4%	0.61	0.51	17.0%	0.00	0.00	0.0%
2008	0.47	0.33	29.0%	5.63	3.47	38.3%	0.60	0.50	16.6%	0.00	0.00	0.0%
2009	0.46	0.33	28.8%	5.45	3.37	38.2%	0.60	0.50	16.3%	0.00	0.00	0.0%
2010	0.46	0.33	28.7%	5.33	3.30	38.0%	0.60	0.50	16.0%	0.00	0.00	0.0%
2011	0.45	0.32	28.6%	5.24	3.25	37.9%	0.59	0.50	15.7%	0.00	0.00	0.0%
2012	0.45	0.32	28.4%	5.18	3.22	37.8%	0.59	0.50	15.5%	0.00	0.00	0.0%
2013	0.45	0.32	28.3%	5.13	3.20	37.7%	0.59	0.50	15.3%	0.00	0.00	0.0%
2014	0.45	0.32	28.4%	5.09	3.17	37.8%	0.59	0.50	15.3%	0.00	0.00	0.0%
2015	0.45	0.32	28.4%	5.06	3.15	37.8%	0.59	0.50	15.3%	0.00	0.00	0.0%
2016	0.44	0.32	28.4%	5.02	3.12	37.8%	0.59	0.50	15.2%	0.00	0.00	0.0%
2017	0.44	0.32	28.4%	4.98	3.09	37.9%	0.59	0.50	15.2%	0.00	0.00	0.0%
2018	0.44	0.32	28.4%	4.96	3.08	37.9%	0.59	0.50	15.2%	0.00	0.00	0.0%
2019	0.44	0.32	28.4%	4.95	3.07	37.9%	0.59	0.50	15.2%	0.00	0.00	0.0%
2020	0.44	0.32	28.4%	4.95	3.07	37.9%	0.59	0.50	15.2%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, idle inspections, stricter standards
**
** Output file: SENS_MAXEFFORT_IDLE_STRICTER.OUT
**
** Date of this run: 1/15/ 91
**   14: 9
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.4%	30.42	23.78	21.8%	2.04	1.82	10.8%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.1%	0.00	0.00	0.0%
1986	2.44	1.85	24.0%	26.53	19.20	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.63	26.7%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.4%	23.44	15.71	33.0%	1.55	1.24	19.9%	0.00	0.00	0.0%
1989	1.78	1.22	31.6%	21.74	14.24	34.5%	1.46	1.14	22.0%	0.00	0.00	0.0%
1990	1.60	1.08	32.8%	19.91	13.06	34.4%	1.36	1.03	23.8%	0.00	0.00	0.0%
1991	1.49	0.97	34.8%	19.24	12.32	36.0%	1.31	0.98	25.1%	0.00	0.00	0.0%
1992	1.35	0.87	35.9%	17.78	11.31	36.4%	1.20	0.89	25.8%	0.00	0.00	0.0%
1993	1.24	0.79	36.1%	16.65	10.45	37.2%	1.13	0.84	26.1%	0.00	0.00	0.0%
1994	1.14	0.73	36.4%	15.62	9.63	38.3%	1.07	0.79	26.3%	0.00	0.00	0.0%
1995	1.05	0.66	36.8%	14.50	8.82	39.2%	1.03	0.76	26.0%	0.00	0.00	0.0%
1996	0.97	0.61	37.1%	13.45	8.09	39.9%	0.99	0.74	25.4%	0.00	0.00	0.0%
1997	0.89	0.55	38.2%	12.44	7.30	41.4%	0.97	0.72	25.8%	0.00	0.00	0.0%
1998	0.83	0.52	37.5%	11.60	6.83	41.1%	0.95	0.72	24.5%	0.00	0.00	0.0%
1999	0.77	0.48	37.4%	10.81	6.34	41.3%	0.94	0.72	23.8%	0.00	0.00	0.0%
2000	0.72	0.46	35.5%	10.04	5.95	40.8%	0.93	0.72	23.1%	0.00	0.00	0.0%
2001	0.69	0.44	35.6%	9.51	5.71	40.0%	0.93	0.72	22.6%	0.00	0.00	0.0%
2002	0.66	0.42	35.8%	9.02	5.38	40.4%	0.92	0.72	22.1%	0.00	0.00	0.0%
2003	0.63	0.41	34.5%	8.49	5.03	40.7%	0.91	0.71	21.7%	0.00	0.00	0.0%
2004	0.61	0.40	33.8%	7.97	4.69	41.1%	0.91	0.71	21.6%	0.00	0.00	0.0%
2005	0.58	0.39	33.7%	7.54	4.42	41.3%	0.90	0.71	21.4%	0.00	0.00	0.0%
2006	0.57	0.38	33.5%	7.19	4.21	41.4%	0.89	0.70	21.2%	0.00	0.00	0.0%
2007	0.55	0.37	33.3%	6.90	4.04	41.4%	0.89	0.70	21.0%	0.00	0.00	0.0%
2008	0.55	0.36	33.3%	6.73	3.94	41.4%	0.89	0.70	20.9%	0.00	0.00	0.0%
2009	0.54	0.36	33.2%	6.62	3.88	41.4%	0.89	0.70	20.8%	0.00	0.00	0.0%
2010	0.54	0.36	33.0%	6.55	3.84	41.4%	0.89	0.70	20.6%	0.00	0.00	0.0%
2011	0.54	0.36	32.9%	6.50	3.81	41.3%	0.89	0.71	20.5%	0.00	0.00	0.0%
2012	0.54	0.36	32.8%	6.46	3.79	41.3%	0.89	0.71	20.3%	0.00	0.00	0.0%
2013	0.53	0.36	32.7%	6.42	3.77	41.3%	0.89	0.71	20.2%	0.00	0.00	0.0%
2014	0.53	0.36	32.8%	6.39	3.73	41.5%	0.89	0.71	20.2%	0.00	0.00	0.0%
2015	0.53	0.36	32.8%	6.35	3.71	41.6%	0.89	0.71	20.2%	0.00	0.00	0.0%
2016	0.53	0.36	32.8%	6.31	3.69	41.6%	0.89	0.71	20.2%	0.00	0.00	0.0%
2017	0.53	0.36	32.8%	6.28	3.67	41.6%	0.89	0.71	20.2%	0.00	0.00	0.0%
2018	0.53	0.35	32.8%	6.25	3.65	41.6%	0.89	0.71	20.2%	0.00	0.00	0.0%
2019	0.53	0.35	32.8%	6.25	3.65	41.6%	0.89	0.71	20.2%	0.00	0.00	0.0%
2020	0.53	0.35	32.8%	6.25	3.65	41.6%	0.89	0.71	20.2%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, idle inspections, stricter standards
**
** Output file: SENS_MAXEFFORT_IDLE_STRICTER.OUT
**
** Date of this run: 1/15/ 91
** 14: 9
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.67	17.4%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.4%	31.04	23.07	25.7%	2.16	1.87	13.2%	0.00	0.00	0.0%
1986	2.70	2.03	24.8%	29.25	20.85	28.7%	2.05	1.73	15.8%	0.00	0.00	0.0%
1987	2.45	1.77	27.8%	27.39	18.80	31.4%	1.97	1.61	18.2%	0.00	0.00	0.0%
1988	2.23	1.55	30.5%	25.65	16.98	33.8%	1.89	1.50	20.6%	0.00	0.00	0.0%
1989	2.04	1.37	33.2%	24.16	15.46	36.0%	1.83	1.42	22.7%	0.00	0.00	0.0%
1990	1.88	1.22	35.3%	22.93	14.18	38.1%	1.78	1.35	24.2%	0.00	0.00	0.0%
1991	1.74	1.10	37.0%	21.79	13.04	40.1%	1.73	1.29	25.2%	0.00	0.00	0.0%
1992	1.61	1.00	38.4%	20.74	12.06	41.9%	1.68	1.25	25.8%	0.00	0.00	0.0%
1993	1.50	0.91	39.4%	19.82	11.17	43.6%	1.65	1.22	26.2%	0.00	0.00	0.0%
1994	1.41	0.84	40.1%	18.91	10.39	45.1%	1.61	1.19	26.3%	0.00	0.00	0.0%
1995	1.32	0.78	40.7%	18.08	9.70	46.4%	1.59	1.17	26.2%	0.00	0.00	0.0%
1996	1.25	0.74	41.1%	17.36	9.09	47.6%	1.57	1.16	26.0%	0.00	0.00	0.0%
1997	1.19	0.70	41.4%	16.73	8.59	48.7%	1.55	1.15	25.7%	0.00	0.00	0.0%
1998	1.13	0.66	41.8%	16.16	8.14	49.6%	1.54	1.15	25.4%	0.00	0.00	0.0%
1999	1.08	0.62	42.4%	15.67	7.76	50.4%	1.53	1.15	25.1%	0.00	0.00	0.0%
2000	1.04	0.61	41.3%	15.23	7.55	50.4%	1.52	1.14	24.8%	0.00	0.00	0.0%
2001	1.00	0.58	41.6%	14.86	7.40	50.2%	1.51	1.14	24.6%	0.00	0.00	0.0%
2002	0.96	0.56	41.8%	14.55	7.18	50.6%	1.51	1.14	24.3%	0.00	0.00	0.0%
2003	0.94	0.55	40.9%	14.36	7.01	51.2%	1.50	1.14	24.2%	0.00	0.00	0.0%
2004	0.92	0.55	40.0%	14.19	6.86	51.7%	1.49	1.14	24.0%	0.00	0.00	0.0%
2005	0.90	0.54	40.1%	14.04	6.72	52.1%	1.49	1.13	23.8%	0.00	0.00	0.0%
2006	0.89	0.53	40.1%	13.95	6.65	52.4%	1.48	1.13	23.7%	0.00	0.00	0.0%
2007	0.88	0.53	40.0%	13.87	6.57	52.6%	1.48	1.13	23.6%	0.00	0.00	0.0%
2008	0.88	0.53	40.0%	13.82	6.52	52.8%	1.47	1.13	23.4%	0.00	0.00	0.0%
2009	0.88	0.53	39.9%	13.79	6.49	52.9%	1.47	1.13	23.2%	0.00	0.00	0.0%
2010	0.87	0.53	39.8%	13.78	6.48	53.0%	1.47	1.13	23.0%	0.00	0.00	0.0%
2011	0.87	0.53	39.7%	13.77	6.47	53.0%	1.47	1.13	22.9%	0.00	0.00	0.0%
2012	0.87	0.53	39.6%	13.76	6.47	53.0%	1.47	1.13	22.7%	0.00	0.00	0.0%
2013	0.87	0.53	39.5%	13.76	6.46	53.0%	1.47	1.14	22.6%	0.00	0.00	0.0%
2014	0.87	0.53	39.6%	13.75	6.44	53.2%	1.47	1.14	22.5%	0.00	0.00	0.0%
2015	0.87	0.53	39.5%	13.75	6.43	53.2%	1.47	1.14	22.5%	0.00	0.00	0.0%
2016	0.87	0.53	39.5%	13.74	6.43	53.2%	1.47	1.14	22.4%	0.00	0.00	0.0%
2017	0.87	0.53	39.5%	13.74	6.43	53.2%	1.47	1.14	22.4%	0.00	0.00	0.0%
2018	0.87	0.53	39.5%	13.74	6.43	53.2%	1.47	1.14	22.4%	0.00	0.00	0.0%
2019	0.87	0.53	39.5%	13.74	6.43	53.2%	1.47	1.14	22.4%	0.00	0.00	0.0%
2020	0.87	0.53	39.5%	13.74	6.43	53.2%	1.47	1.14	22.4%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, all loaded mode
**
**      Output file: SENS_MAXEFFORT_LOADED.OUT
**
** Date of this run:  1/15/  91
**                   14:19
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	ALL SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, all loaded mode
**
** Output file: SENS_MAXEFFORT_LOADED.OUT
**
** Date of this run: 1/15/ 91
** 14:19
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	++++++ HC ++++++			+++++++ CO ++++++			++++++ NOx +++++			+++++ EVAP +++++		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.65	12.8%	0.00	0.00	0.0%
1986	2.29	1.80	21.4%	24.48	18.49	24.5%	1.79	1.52	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.2%	22.65	16.53	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.1%	20.93	14.81	29.3%	1.60	1.29	19.4%	0.00	0.00	0.0%
1989	1.68	1.22	27.1%	19.32	13.29	31.2%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.7%	17.93	12.06	32.8%	1.41	1.08	23.6%	0.00	0.00	0.0%
1991	1.38	0.96	30.0%	16.68	11.01	34.0%	1.31	0.98	25.2%	0.00	0.00	0.0%
1992	1.26	0.87	31.1%	15.61	10.15	34.9%	1.21	0.89	26.5%	0.00	0.00	0.0%
1993	1.16	0.79	31.9%	14.70	9.43	35.8%	1.13	0.82	27.4%	0.00	0.00	0.0%
1994	1.06	0.72	32.6%	13.82	8.71	37.0%	1.05	0.75	28.2%	0.00	0.00	0.0%
1995	0.98	0.65	33.3%	12.92	7.98	38.2%	0.98	0.70	28.7%	0.00	0.00	0.0%
1996	0.90	0.60	33.8%	12.07	7.31	39.4%	0.92	0.65	28.9%	0.00	0.00	0.0%
1997	0.83	0.55	34.1%	11.26	6.70	40.5%	0.87	0.62	28.7%	0.00	0.00	0.0%
1998	0.76	0.50	34.4%	10.48	6.15	41.3%	0.82	0.59	28.3%	0.00	0.00	0.0%
1999	0.70	0.46	34.4%	9.77	5.67	41.9%	0.78	0.56	27.6%	0.00	0.00	0.0%
2000	0.66	0.43	34.8%	9.13	5.38	41.1%	0.74	0.54	26.9%	0.00	0.00	0.0%
2001	0.62	0.40	35.0%	8.52	4.99	41.5%	0.71	0.52	26.3%	0.00	0.00	0.0%
2002	0.59	0.38	35.0%	7.98	4.66	41.5%	0.68	0.51	25.7%	0.00	0.00	0.0%
2003	0.56	0.37	33.7%	7.45	4.36	41.5%	0.66	0.50	25.0%	0.00	0.00	0.0%
2004	0.53	0.36	33.2%	6.95	4.06	41.5%	0.64	0.48	24.5%	0.00	0.00	0.0%
2005	0.51	0.34	33.0%	6.50	3.80	41.6%	0.63	0.48	23.9%	0.00	0.00	0.0%
2006	0.49	0.33	32.9%	6.16	3.60	41.5%	0.62	0.47	23.5%	0.00	0.00	0.0%
2007	0.48	0.32	32.9%	5.87	3.43	41.5%	0.61	0.47	23.2%	0.00	0.00	0.0%
2008	0.47	0.31	32.9%	5.63	3.30	41.4%	0.60	0.46	22.9%	0.00	0.00	0.0%
2009	0.46	0.31	32.8%	5.45	3.20	41.3%	0.60	0.46	22.7%	0.00	0.00	0.0%
2010	0.46	0.31	32.7%	5.33	3.13	41.2%	0.60	0.46	22.4%	0.00	0.00	0.0%
2011	0.45	0.31	32.6%	5.24	3.09	41.1%	0.59	0.46	22.2%	0.00	0.00	0.0%
2012	0.45	0.30	32.5%	5.18	3.05	41.0%	0.59	0.46	22.0%	0.00	0.00	0.0%
2013	0.45	0.30	32.4%	5.13	3.03	40.9%	0.59	0.46	21.8%	0.00	0.00	0.0%
2014	0.45	0.30	32.5%	5.09	3.00	41.0%	0.59	0.46	21.9%	0.00	0.00	0.0%
2015	0.45	0.30	32.5%	5.06	2.98	41.1%	0.59	0.46	21.8%	0.00	0.00	0.0%
2016	0.44	0.30	32.5%	5.02	2.96	41.1%	0.59	0.46	21.8%	0.00	0.00	0.0%
2017	0.44	0.30	32.5%	4.98	2.93	41.1%	0.59	0.46	21.8%	0.00	0.00	0.0%
2018	0.44	0.30	32.5%	4.96	2.91	41.2%	0.59	0.46	21.8%	0.00	0.00	0.0%
2019	0.44	0.30	32.5%	4.95	2.91	41.2%	0.59	0.46	21.8%	0.00	0.00	0.0%
2020	0.44	0.30	32.5%	4.95	2.91	41.2%	0.59	0.46	21.8%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, all loaded mode
**
** Output file: SENS_MAXEFFORT_LOADED.OUT
**
** Date of this run: 1/15/ 91
**   14:19
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.4%	30.42	23.78	21.8%	2.04	1.82	10.8%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.1%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.20	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.64	26.7%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	19.9%	0.00	0.00	0.0%
1989	1.78	1.22	31.7%	21.74	14.23	34.5%	1.46	1.14	22.1%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.04	34.5%	1.36	1.03	24.1%	0.00	0.00	0.0%
1991	1.49	0.97	35.0%	19.24	12.28	36.2%	1.31	0.97	25.5%	0.00	0.00	0.0%
1992	1.35	0.86	36.2%	17.78	11.24	36.8%	1.20	0.88	26.5%	0.00	0.00	0.0%
1993	1.24	0.79	36.6%	16.65	10.36	37.8%	1.13	0.82	27.3%	0.00	0.00	0.0%
1994	1.14	0.72	37.0%	15.62	9.52	39.1%	1.07	0.78	27.8%	0.00	0.00	0.0%
1995	1.05	0.66	37.7%	14.50	8.68	40.1%	1.03	0.74	28.1%	0.00	0.00	0.0%
1996	0.97	0.60	38.2%	13.45	7.93	41.1%	0.99	0.71	28.0%	0.00	0.00	0.0%
1997	0.89	0.54	39.5%	12.44	7.12	42.8%	0.97	0.69	28.7%	0.00	0.00	0.0%
1998	0.83	0.51	39.0%	11.60	6.64	42.8%	0.95	0.69	27.9%	0.00	0.00	0.0%
1999	0.77	0.47	39.3%	10.81	6.14	43.2%	0.94	0.68	27.6%	0.00	0.00	0.0%
2000	0.72	0.45	37.6%	10.04	5.74	42.9%	0.93	0.68	27.3%	0.00	0.00	0.0%
2001	0.69	0.43	37.9%	9.51	5.49	42.3%	0.93	0.68	27.1%	0.00	0.00	0.0%
2002	0.66	0.41	38.3%	9.02	5.15	42.9%	0.92	0.67	26.9%	0.00	0.00	0.0%
2003	0.63	0.40	37.2%	8.49	4.80	43.4%	0.91	0.67	26.7%	0.00	0.00	0.0%
2004	0.61	0.38	36.6%	7.97	4.47	43.9%	0.91	0.66	26.7%	0.00	0.00	0.0%
2005	0.58	0.37	36.6%	7.54	4.20	44.3%	0.90	0.66	26.7%	0.00	0.00	0.0%
2006	0.57	0.36	36.5%	7.19	4.00	44.4%	0.89	0.66	26.5%	0.00	0.00	0.0%
2007	0.55	0.35	36.3%	6.90	3.83	44.5%	0.89	0.65	26.4%	0.00	0.00	0.0%
2008	0.55	0.35	36.3%	6.73	3.74	44.5%	0.89	0.65	26.3%	0.00	0.00	0.0%
2009	0.54	0.35	36.2%	6.62	3.67	44.5%	0.89	0.65	26.2%	0.00	0.00	0.0%
2010	0.54	0.34	36.1%	6.55	3.63	44.5%	0.89	0.66	26.1%	0.00	0.00	0.0%
2011	0.54	0.34	36.0%	6.50	3.60	44.5%	0.89	0.66	26.0%	0.00	0.00	0.0%
2012	0.54	0.34	36.0%	6.46	3.58	44.6%	0.89	0.66	25.9%	0.00	0.00	0.0%
2013	0.53	0.34	35.9%	6.42	3.56	44.6%	0.89	0.66	25.8%	0.00	0.00	0.0%
2014	0.53	0.34	36.0%	6.39	3.52	44.8%	0.89	0.66	25.8%	0.00	0.00	0.0%
2015	0.53	0.34	36.0%	6.35	3.50	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2016	0.53	0.34	36.0%	6.31	3.48	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2017	0.53	0.34	36.0%	6.28	3.46	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2018	0.53	0.34	36.0%	6.25	3.45	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2019	0.53	0.34	36.0%	6.25	3.44	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2020	0.53	0.34	36.0%	6.25	3.44	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, all loaded mode
**
** Output file: SENS_MAXEFFORT_LOADED.OUT
**
** Date of this run: 1/15/ 91
**   14:19
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.67	17.4%	32.80	25.51	22.2%	2.28	2.04	10.7%	0.00	0.00	0.0%
1985	2.96	2.33	21.3%	31.04	23.07	25.7%	2.16	1.87	13.2%	0.00	0.00	0.0%
1986	2.70	2.03	24.8%	29.25	20.85	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.7%	27.39	18.80	31.4%	1.97	1.61	18.1%	0.00	0.00	0.0%
1988	2.23	1.55	30.4%	25.65	16.98	33.8%	1.89	1.51	20.5%	0.00	0.00	0.0%
1989	2.04	1.37	33.1%	24.16	15.45	36.1%	1.83	1.42	22.6%	0.00	0.00	0.0%
1990	1.88	1.22	35.3%	22.93	14.16	38.2%	1.78	1.35	24.2%	0.00	0.00	0.0%
1991	1.74	1.10	37.0%	21.79	13.00	40.3%	1.73	1.29	25.4%	0.00	0.00	0.0%
1992	1.61	0.99	38.5%	20.74	11.98	42.2%	1.68	1.24	26.3%	0.00	0.00	0.0%
1993	1.50	0.91	39.6%	19.82	11.07	44.1%	1.65	1.20	27.0%	0.00	0.00	0.0%
1994	1.41	0.84	40.4%	18.91	10.25	45.8%	1.61	1.17	27.4%	0.00	0.00	0.0%
1995	1.32	0.78	41.2%	18.08	9.52	47.3%	1.59	1.15	27.7%	0.00	0.00	0.0%
1996	1.25	0.73	41.8%	17.36	8.88	48.8%	1.57	1.13	27.9%	0.00	0.00	0.0%
1997	1.19	0.68	42.3%	16.73	8.34	50.2%	1.55	1.12	27.9%	0.00	0.00	0.0%
1998	1.13	0.65	42.9%	16.16	7.87	51.3%	1.54	1.11	28.0%	0.00	0.00	0.0%
1999	1.08	0.61	43.6%	15.67	7.46	52.4%	1.53	1.10	28.0%	0.00	0.00	0.0%
2000	1.04	0.59	42.7%	15.23	7.22	52.6%	1.52	1.09	28.0%	0.00	0.00	0.0%
2001	1.00	0.57	43.2%	14.86	7.05	52.6%	1.51	1.09	28.0%	0.00	0.00	0.0%
2002	0.96	0.54	43.5%	14.55	6.81	53.2%	1.51	1.08	28.0%	0.00	0.00	0.0%
2003	0.94	0.54	42.8%	14.36	6.62	53.9%	1.50	1.08	27.9%	0.00	0.00	0.0%
2004	0.92	0.53	42.0%	14.19	6.46	54.5%	1.49	1.08	27.9%	0.00	0.00	0.0%
2005	0.90	0.52	42.2%	14.04	6.31	55.0%	1.49	1.07	27.9%	0.00	0.00	0.0%
2006	0.89	0.51	42.2%	13.95	6.23	55.4%	1.48	1.07	27.9%	0.00	0.00	0.0%
2007	0.88	0.51	42.3%	13.87	6.14	55.7%	1.48	1.07	27.8%	0.00	0.00	0.0%
2008	0.88	0.51	42.3%	13.82	6.09	55.9%	1.47	1.06	27.7%	0.00	0.00	0.0%
2009	0.88	0.51	42.3%	13.79	6.06	56.1%	1.47	1.06	27.6%	0.00	0.00	0.0%
2010	0.87	0.51	42.2%	13.78	6.03	56.2%	1.47	1.07	27.5%	0.00	0.00	0.0%
2011	0.87	0.51	42.1%	13.77	6.02	56.3%	1.47	1.07	27.4%	0.00	0.00	0.0%
2012	0.87	0.51	42.0%	13.76	6.01	56.3%	1.47	1.07	27.3%	0.00	0.00	0.0%
2013	0.87	0.51	41.9%	13.76	6.00	56.4%	1.47	1.07	27.2%	0.00	0.00	0.0%
2014	0.87	0.51	42.0%	13.75	5.98	56.5%	1.47	1.07	27.2%	0.00	0.00	0.0%
2015	0.87	0.50	42.0%	13.75	5.97	56.5%	1.47	1.07	27.2%	0.00	0.00	0.0%
2016	0.87	0.50	42.0%	13.74	5.97	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%
2017	0.87	0.50	42.0%	13.74	5.96	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%
2018	0.87	0.50	42.0%	13.74	5.96	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%
2019	0.87	0.50	42.0%	13.74	5.96	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%
2020	0.87	0.50	42.0%	13.74	5.96	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, loaded mode for 80 & later vehicles
**
**      Output file: SENS_MAXEFFORT_80LOADED.OUT
**
** Date of this run:  1/15/  91
**                   14:12
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDLE/SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, loaded mode for 80 & later vehicles
**
** Output file: SENS_MAXEFFORT_80LOADED.OUT
**
** Date of this run: 1/15/ 91
**   14:12
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.3%	24.48	18.49	24.5%	1.79	1.52	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.1%	22.65	16.53	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.1%	20.93	14.81	29.3%	1.60	1.29	19.3%	0.00	0.00	0.0%
1989	1.68	1.22	27.0%	19.32	13.29	31.2%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.6%	17.93	12.06	32.8%	1.41	1.08	23.5%	0.00	0.00	0.0%
1991	1.38	0.97	29.9%	16.68	11.01	34.0%	1.31	0.98	25.2%	0.00	0.00	0.0%
1992	1.26	0.87	31.0%	15.61	10.15	34.9%	1.21	0.89	26.4%	0.00	0.00	0.0%
1993	1.16	0.79	31.8%	14.70	9.43	35.8%	1.13	0.82	27.4%	0.00	0.00	0.0%
1994	1.06	0.72	32.6%	13.82	8.71	36.9%	1.05	0.75	28.2%	0.00	0.00	0.0%
1995	0.98	0.65	33.3%	12.92	7.98	38.2%	0.98	0.70	28.7%	0.00	0.00	0.0%
1996	0.90	0.60	33.7%	12.07	7.31	39.4%	0.92	0.65	28.9%	0.00	0.00	0.0%
1997	0.83	0.55	34.1%	11.26	6.70	40.5%	0.87	0.62	28.7%	0.00	0.00	0.0%
1998	0.76	0.50	34.3%	10.48	6.15	41.3%	0.82	0.59	28.3%	0.00	0.00	0.0%
1999	0.70	0.46	34.4%	9.77	5.67	41.9%	0.78	0.56	27.6%	0.00	0.00	0.0%
2000	0.66	0.43	34.8%	9.13	5.38	41.1%	0.74	0.54	26.9%	0.00	0.00	0.0%
2001	0.62	0.40	35.0%	8.52	4.99	41.5%	0.71	0.52	26.3%	0.00	0.00	0.0%
2002	0.59	0.38	34.9%	7.98	4.67	41.5%	0.68	0.51	25.7%	0.00	0.00	0.0%
2003	0.56	0.37	33.6%	7.45	4.36	41.5%	0.66	0.50	25.0%	0.00	0.00	0.0%
2004	0.53	0.36	33.1%	6.95	4.06	41.5%	0.64	0.48	24.5%	0.00	0.00	0.0%
2005	0.51	0.34	33.0%	6.50	3.80	41.6%	0.63	0.48	23.9%	0.00	0.00	0.0%
2006	0.49	0.33	32.9%	6.16	3.60	41.5%	0.62	0.47	23.5%	0.00	0.00	0.0%
2007	0.48	0.32	32.9%	5.87	3.43	41.5%	0.61	0.47	23.2%	0.00	0.00	0.0%
2008	0.47	0.31	32.9%	5.63	3.30	41.4%	0.60	0.46	22.9%	0.00	0.00	0.0%
2009	0.46	0.31	32.8%	5.45	3.20	41.3%	0.60	0.46	22.7%	0.00	0.00	0.0%
2010	0.46	0.31	32.7%	5.33	3.13	41.2%	0.60	0.46	22.4%	0.00	0.00	0.0%
2011	0.45	0.31	32.6%	5.24	3.09	41.1%	0.59	0.46	22.2%	0.00	0.00	0.0%
2012	0.45	0.30	32.5%	5.18	3.05	41.0%	0.59	0.46	22.0%	0.00	0.00	0.0%
2013	0.45	0.30	32.4%	5.13	3.03	40.9%	0.59	0.46	21.8%	0.00	0.00	0.0%
2014	0.45	0.30	32.5%	5.09	3.00	41.0%	0.59	0.46	21.9%	0.00	0.00	0.0%
2015	0.45	0.30	32.5%	5.06	2.98	41.1%	0.59	0.46	21.8%	0.00	0.00	0.0%
2016	0.44	0.30	32.5%	5.02	2.96	41.1%	0.59	0.46	21.8%	0.00	0.00	0.0%
2017	0.44	0.30	32.5%	4.98	2.93	41.1%	0.59	0.46	21.8%	0.00	0.00	0.0%
2018	0.44	0.30	32.5%	4.96	2.91	41.2%	0.59	0.46	21.8%	0.00	0.00	0.0%
2019	0.44	0.30	32.5%	4.95	2.91	41.2%	0.59	0.46	21.8%	0.00	0.00	0.0%
2020	0.44	0.30	32.5%	4.95	2.91	41.2%	0.59	0.46	21.8%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, loaded mode for 80 & later vehicles
**
** Output file: SENS_MAXEFFORT_80LOADED.OUT
**
** Date of this run: 1/15/ 91
**   14:12
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.4%	30.42	23.78	21.8%	2.04	1.82	10.8%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.1%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.20	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.63	26.7%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	19.9%	0.00	0.00	0.0%
1989	1.78	1.22	31.7%	21.74	14.23	34.5%	1.46	1.14	22.1%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.04	34.5%	1.36	1.03	24.0%	0.00	0.00	0.0%
1991	1.49	0.97	35.0%	19.24	12.28	36.2%	1.31	0.97	25.5%	0.00	0.00	0.0%
1992	1.35	0.86	36.2%	17.78	11.25	36.8%	1.20	0.88	26.5%	0.00	0.00	0.0%
1993	1.24	0.79	36.6%	16.65	10.36	37.7%	1.13	0.82	27.2%	0.00	0.00	0.0%
1994	1.14	0.72	37.0%	15.62	9.52	39.1%	1.07	0.78	27.8%	0.00	0.00	0.0%
1995	1.05	0.66	37.7%	14.50	8.68	40.1%	1.03	0.74	28.0%	0.00	0.00	0.0%
1996	0.97	0.60	38.2%	13.45	7.93	41.1%	0.99	0.71	28.0%	0.00	0.00	0.0%
1997	0.89	0.54	39.5%	12.44	7.12	42.8%	0.97	0.69	28.7%	0.00	0.00	0.0%
1998	0.83	0.51	39.0%	11.60	6.64	42.8%	0.95	0.69	27.9%	0.00	0.00	0.0%
1999	0.77	0.47	39.3%	10.81	6.14	43.2%	0.94	0.68	27.5%	0.00	0.00	0.0%
2000	0.72	0.45	37.6%	10.04	5.74	42.9%	0.93	0.68	27.2%	0.00	0.00	0.0%
2001	0.69	0.43	37.9%	9.51	5.49	42.3%	0.93	0.68	27.1%	0.00	0.00	0.0%
2002	0.66	0.41	38.3%	9.02	5.15	42.9%	0.92	0.67	26.8%	0.00	0.00	0.0%
2003	0.63	0.40	37.2%	8.49	4.80	43.4%	0.91	0.67	26.7%	0.00	0.00	0.0%
2004	0.61	0.38	36.6%	7.97	4.47	43.9%	0.91	0.66	26.7%	0.00	0.00	0.0%
2005	0.58	0.37	36.6%	7.54	4.20	44.2%	0.90	0.66	26.7%	0.00	0.00	0.0%
2006	0.57	0.36	36.5%	7.19	4.00	44.4%	0.89	0.66	26.5%	0.00	0.00	0.0%
2007	0.55	0.35	36.3%	6.90	3.83	44.5%	0.89	0.65	26.4%	0.00	0.00	0.0%
2008	0.55	0.35	36.3%	6.73	3.74	44.5%	0.89	0.65	26.3%	0.00	0.00	0.0%
2009	0.54	0.35	36.2%	6.62	3.67	44.5%	0.89	0.65	26.2%	0.00	0.00	0.0%
2010	0.54	0.34	36.1%	6.55	3.63	44.5%	0.89	0.66	26.1%	0.00	0.00	0.0%
2011	0.54	0.34	36.0%	6.50	3.60	44.5%	0.89	0.66	26.0%	0.00	0.00	0.0%
2012	0.54	0.34	36.0%	6.46	3.58	44.6%	0.89	0.66	25.9%	0.00	0.00	0.0%
2013	0.53	0.34	35.9%	6.42	3.56	44.6%	0.89	0.66	25.8%	0.00	0.00	0.0%
2014	0.53	0.34	36.0%	6.39	3.52	44.8%	0.89	0.66	25.8%	0.00	0.00	0.0%
2015	0.53	0.34	36.0%	6.35	3.50	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2016	0.53	0.34	36.0%	6.31	3.48	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2017	0.53	0.34	36.0%	6.28	3.46	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2018	0.53	0.34	36.0%	6.25	3.45	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2019	0.53	0.34	36.0%	6.25	3.44	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%
2020	0.53	0.34	36.0%	6.25	3.44	44.9%	0.89	0.66	25.8%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, loaded mode for 80 & later vehicles
**
** Output file: SENS_MAXEFFORT_80LOADED.OUT
**
** Date of this run: 1/15/ 91
**   14:12
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.67	17.4%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.4%	31.04	23.07	25.7%	2.16	1.87	13.2%	0.00	0.00	0.0%
1986	2.70	2.03	24.8%	29.25	20.86	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.7%	27.39	18.81	31.3%	1.97	1.61	18.1%	0.00	0.00	0.0%
1988	2.23	1.55	30.5%	25.65	16.99	33.8%	1.89	1.51	20.4%	0.00	0.00	0.0%
1989	2.04	1.37	33.1%	24.16	15.46	36.0%	1.83	1.42	22.6%	0.00	0.00	0.0%
1990	1.88	1.22	35.3%	22.93	14.16	38.2%	1.78	1.35	24.2%	0.00	0.00	0.0%
1991	1.74	1.10	37.1%	21.79	13.00	40.3%	1.73	1.29	25.3%	0.00	0.00	0.0%
1992	1.61	0.99	38.5%	20.74	11.98	42.2%	1.68	1.24	26.2%	0.00	0.00	0.0%
1993	1.50	0.91	39.7%	19.82	11.07	44.1%	1.65	1.20	26.9%	0.00	0.00	0.0%
1994	1.41	0.84	40.5%	18.91	10.25	45.8%	1.61	1.17	27.4%	0.00	0.00	0.0%
1995	1.32	0.78	41.2%	18.08	9.52	47.3%	1.59	1.15	27.7%	0.00	0.00	0.0%
1996	1.25	0.73	41.8%	17.36	8.88	48.8%	1.57	1.13	27.8%	0.00	0.00	0.0%
1997	1.19	0.68	42.3%	16.73	8.34	50.2%	1.55	1.12	27.9%	0.00	0.00	0.0%
1998	1.13	0.65	42.9%	16.16	7.87	51.3%	1.54	1.11	28.0%	0.00	0.00	0.0%
1999	1.08	0.61	43.6%	15.67	7.46	52.4%	1.53	1.10	28.0%	0.00	0.00	0.0%
2000	1.04	0.59	42.8%	15.23	7.22	52.6%	1.52	1.10	28.0%	0.00	0.00	0.0%
2001	1.00	0.57	43.2%	14.86	7.05	52.6%	1.51	1.09	28.0%	0.00	0.00	0.0%
2002	0.96	0.54	43.6%	14.55	6.81	53.2%	1.51	1.09	28.0%	0.00	0.00	0.0%
2003	0.94	0.54	42.8%	14.36	6.62	53.9%	1.50	1.08	27.9%	0.00	0.00	0.0%
2004	0.92	0.53	42.0%	14.19	6.46	54.5%	1.49	1.08	27.9%	0.00	0.00	0.0%
2005	0.90	0.52	42.2%	14.04	6.31	55.0%	1.49	1.07	27.9%	0.00	0.00	0.0%
2006	0.89	0.51	42.2%	13.95	6.23	55.4%	1.48	1.07	27.9%	0.00	0.00	0.0%
2007	0.88	0.51	42.3%	13.87	6.14	55.7%	1.48	1.07	27.8%	0.00	0.00	0.0%
2008	0.88	0.51	42.3%	13.82	6.09	55.9%	1.47	1.06	27.7%	0.00	0.00	0.0%
2009	0.88	0.51	42.3%	13.79	6.06	56.1%	1.47	1.06	27.6%	0.00	0.00	0.0%
2010	0.87	0.51	42.2%	13.78	6.03	56.2%	1.47	1.07	27.5%	0.00	0.00	0.0%
2011	0.87	0.51	42.1%	13.77	6.02	56.3%	1.47	1.07	27.4%	0.00	0.00	0.0%
2012	0.87	0.51	42.0%	13.76	6.01	56.3%	1.47	1.07	27.3%	0.00	0.00	0.0%
2013	0.87	0.51	41.9%	13.76	6.00	56.4%	1.47	1.07	27.2%	0.00	0.00	0.0%
2014	0.87	0.51	42.0%	13.75	5.98	56.5%	1.47	1.07	27.2%	0.00	0.00	0.0%
2015	0.87	0.50	42.0%	13.75	5.97	56.5%	1.47	1.07	27.2%	0.00	0.00	0.0%
2016	0.87	0.50	42.0%	13.74	5.97	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%
2017	0.87	0.50	42.0%	13.74	5.96	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%
2018	0.87	0.50	42.0%	13.74	5.96	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%
2019	0.87	0.50	42.0%	13.74	5.96	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%
2020	0.87	0.50	42.0%	13.74	5.96	56.6%	1.47	1.07	27.1%	0.00	0.00	0.0%

```
** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, 80 & later loaded mode, stricter standards
**
**      Output file: SENS_MAXEFFORT_80LOADED_STRICTER.OUT
**
** Date of this run:  1/15/  91
**                   14:16
**
```

THIS RUN REFLECTS THE FOLLOWING PROGRAM OPTIONS:

Program start year:	1984
Inspection Frequency:	BIENNIAL
Change of Ownership Rate:	17.00 %
Inspection Test Type:	IDL/2500
Visual/Functional Checks:	88 LEVEL
Emission Standard Stringency:	88 LEVEL
Repair Cost Limits:	$50
Mechanic Performance:	88 LEVEL
Model Years Included:	
Max. Age for Inspected Vehicles:	20
Earliest Model Year in Program:	1965
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

Program start year:	1990
Inspection Frequency:	ANNUAL
Change of Ownership Rate:	0.00 %
Inspection Test Type:	IDLE/SLD
Visual/Functional Checks:	BETTER
Emission Standard Stringency:	STRICTER
Repair Cost Limits:	NO LIMIT
Mechanic Performance:	BEST
Model Years Included:	
Max. Age for Inspected Vehicles:	25
Earliest Model Year in Program:	1966
Vehicle Exemptions:	
Years Before Inspection for New Cars:	1
Inspection-free Year After Pass?	NO
Fraction of hard-to-repair vehicles:	0.24

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, 80 & later loaded mode, stricter standards
**
** Output file: SENS_MAXEFFORT_80LOADED_STRICTER.OUT
**
** Date of this run: 1/15/ 91
**   14:16
** Calendar Year I/M Benefits Passenger Cars
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.75	3.75	0.0%	36.30	36.30	0.0%	2.44	2.44	0.0%	0.00	0.00	0.0%
1981	3.50	3.50	0.0%	34.22	34.22	0.0%	2.33	2.33	0.0%	0.00	0.00	0.0%
1982	3.26	3.26	0.0%	32.23	32.23	0.0%	2.23	2.23	0.0%	0.00	0.00	0.0%
1983	3.02	3.02	0.0%	30.32	30.32	0.0%	2.12	2.12	0.0%	0.00	0.00	0.0%
1984	2.78	2.30	17.3%	28.39	23.12	18.6%	2.01	1.79	10.7%	0.00	0.00	0.0%
1985	2.53	2.04	19.4%	26.40	20.70	21.6%	1.90	1.66	12.7%	0.00	0.00	0.0%
1986	2.29	1.80	21.3%	24.48	18.49	24.5%	1.79	1.52	14.9%	0.00	0.00	0.0%
1987	2.06	1.58	23.1%	22.65	16.53	27.0%	1.69	1.40	17.1%	0.00	0.00	0.0%
1988	1.86	1.39	25.1%	20.93	14.80	29.3%	1.60	1.29	19.3%	0.00	0.00	0.0%
1989	1.68	1.22	27.1%	19.32	13.28	31.3%	1.51	1.18	21.6%	0.00	0.00	0.0%
1990	1.52	1.08	28.7%	17.93	12.04	32.9%	1.41	1.08	23.6%	0.00	0.00	0.0%
1991	1.38	0.96	30.0%	16.68	10.98	34.2%	1.31	0.98	25.3%	0.00	0.00	0.0%
1992	1.26	0.86	31.2%	15.61	10.12	35.2%	1.21	0.89	26.7%	0.00	0.00	0.0%
1993	1.16	0.78	32.2%	14.70	9.39	36.1%	1.13	0.81	27.8%	0.00	0.00	0.0%
1994	1.06	0.71	33.1%	13.82	8.66	37.3%	1.05	0.75	28.8%	0.00	0.00	0.0%
1995	0.98	0.65	34.0%	12.92	7.93	38.6%	0.98	0.69	29.5%	0.00	0.00	0.0%
1996	0.90	0.59	34.7%	12.07	7.25	39.9%	0.92	0.65	29.8%	0.00	0.00	0.0%
1997	0.83	0.54	35.2%	11.26	6.63	41.1%	0.87	0.61	29.8%	0.00	0.00	0.0%
1998	0.76	0.49	35.7%	10.48	6.08	42.0%	0.82	0.58	29.6%	0.00	0.00	0.0%
1999	0.70	0.45	36.1%	9.77	5.60	42.7%	0.78	0.55	29.1%	0.00	0.00	0.0%
2000	0.66	0.42	36.6%	9.13	5.31	41.9%	0.74	0.53	28.6%	0.00	0.00	0.0%
2001	0.62	0.39	37.1%	8.52	4.91	42.3%	0.71	0.51	28.1%	0.00	0.00	0.0%
2002	0.59	0.37	37.2%	7.98	4.59	42.4%	0.68	0.49	27.6%	0.00	0.00	0.0%
2003	0.56	0.36	36.1%	7.45	4.29	42.5%	0.66	0.48	27.1%	0.00	0.00	0.0%
2004	0.53	0.34	35.8%	6.95	3.99	42.5%	0.64	0.47	26.6%	0.00	0.00	0.0%
2005	0.51	0.33	35.8%	6.50	3.73	42.7%	0.63	0.46	26.1%	0.00	0.00	0.0%
2006	0.49	0.32	35.9%	6.16	3.53	42.6%	0.62	0.46	25.8%	0.00	0.00	0.0%
2007	0.48	0.31	36.0%	5.87	3.36	42.7%	0.61	0.45	25.5%	0.00	0.00	0.0%
2008	0.47	0.30	36.0%	5.63	3.23	42.6%	0.60	0.45	25.2%	0.00	0.00	0.0%
2009	0.46	0.30	36.0%	5.45	3.13	42.6%	0.60	0.45	25.0%	0.00	0.00	0.0%
2010	0.46	0.29	36.0%	5.33	3.06	42.5%	0.60	0.45	24.7%	0.00	0.00	0.0%
2011	0.45	0.29	35.9%	5.24	3.02	42.5%	0.59	0.45	24.5%	0.00	0.00	0.0%
2012	0.45	0.29	35.8%	5.18	2.99	42.4%	0.59	0.45	24.3%	0.00	0.00	0.0%
2013	0.45	0.29	35.8%	5.13	2.96	42.3%	0.59	0.45	24.2%	0.00	0.00	0.0%
2014	0.45	0.29	35.9%	5.09	2.94	42.4%	0.59	0.44	24.2%	0.00	0.00	0.0%
2015	0.45	0.29	35.9%	5.06	2.91	42.4%	0.59	0.44	24.2%	0.00	0.00	0.0%
2016	0.44	0.28	35.9%	5.02	2.89	42.5%	0.59	0.44	24.1%	0.00	0.00	0.0%
2017	0.44	0.28	35.9%	4.98	2.86	42.5%	0.59	0.44	24.1%	0.00	0.00	0.0%
2018	0.44	0.28	35.9%	4.96	2.85	42.6%	0.59	0.44	24.1%	0.00	0.00	0.0%
2019	0.44	0.28	35.9%	4.95	2.84	42.6%	0.59	0.44	24.1%	0.00	0.00	0.0%
2020	0.44	0.28	35.9%	4.95	2.84	42.6%	0.59	0.44	24.1%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, 80 & later loaded mode, stricter standards
**
** Output file: SENS_MAXEFFORT_80LOADED_STRICTER.OUT
**
** Date of this run: 1/15/ 91
** 14:16
** Calendar Year I/M Benefits Light Duty Trucks
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	3.85	3.85	0.0%	36.95	36.95	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1981	3.62	3.62	0.0%	35.02	35.02	0.0%	2.34	2.34	0.0%	0.00	0.00	0.0%
1982	3.38	3.38	0.0%	33.25	33.25	0.0%	2.28	2.28	0.0%	0.00	0.00	0.0%
1983	3.20	3.20	0.0%	31.96	31.96	0.0%	2.17	2.17	0.0%	0.00	0.00	0.0%
1984	3.00	2.51	16.4%	30.42	23.78	21.8%	2.04	1.82	10.8%	0.00	0.00	0.0%
1985	2.71	2.17	20.0%	28.51	21.56	24.4%	1.92	1.67	13.1%	0.00	0.00	0.0%
1986	2.44	1.85	23.9%	26.53	19.20	27.6%	1.79	1.51	15.5%	0.00	0.00	0.0%
1987	2.23	1.64	26.7%	25.24	17.45	30.8%	1.68	1.38	17.6%	0.00	0.00	0.0%
1988	1.98	1.40	29.3%	23.44	15.71	33.0%	1.55	1.24	20.0%	0.00	0.00	0.0%
1989	1.78	1.22	31.6%	21.74	14.22	34.6%	1.46	1.13	22.2%	0.00	0.00	0.0%
1990	1.60	1.07	32.8%	19.91	13.03	34.6%	1.36	1.03	24.2%	0.00	0.00	0.0%
1991	1.49	0.97	35.0%	19.24	12.26	36.3%	1.31	0.97	25.8%	0.00	0.00	0.0%
1992	1.35	0.86	36.3%	17.78	11.21	36.9%	1.20	0.88	27.0%	0.00	0.00	0.0%
1993	1.24	0.79	36.8%	16.65	10.32	38.0%	1.13	0.82	27.9%	0.00	0.00	0.0%
1994	1.14	0.72	37.4%	15.62	9.47	39.4%	1.07	0.77	28.8%	0.00	0.00	0.0%
1995	1.05	0.65	38.3%	14.50	8.62	40.5%	1.03	0.73	29.3%	0.00	0.00	0.0%
1996	0.97	0.59	39.0%	13.45	7.86	41.6%	0.99	0.70	29.4%	0.00	0.00	0.0%
1997	0.89	0.53	40.4%	12.44	7.05	43.3%	0.97	0.67	30.3%	0.00	0.00	0.0%
1998	0.83	0.50	40.2%	11.60	6.56	43.5%	0.95	0.67	29.7%	0.00	0.00	0.0%
1999	0.77	0.46	40.7%	10.81	6.05	44.0%	0.94	0.66	29.6%	0.00	0.00	0.0%
2000	0.72	0.44	39.2%	10.04	5.65	43.7%	0.93	0.66	29.4%	0.00	0.00	0.0%
2001	0.69	0.41	39.8%	9.51	5.40	43.2%	0.93	0.65	29.4%	0.00	0.00	0.0%
2002	0.66	0.39	40.3%	9.02	5.06	43.9%	0.92	0.65	29.3%	0.00	0.00	0.0%
2003	0.63	0.38	39.4%	8.49	4.71	44.5%	0.91	0.65	29.2%	0.00	0.00	0.0%
2004	0.61	0.37	38.9%	7.97	4.38	45.0%	0.91	0.64	29.2%	0.00	0.00	0.0%
2005	0.58	0.36	39.0%	7.54	4.12	45.4%	0.90	0.64	29.2%	0.00	0.00	0.0%
2006	0.57	0.35	38.9%	7.19	3.92	45.5%	0.89	0.63	29.1%	0.00	0.00	0.0%
2007	0.55	0.34	38.8%	6.90	3.75	45.6%	0.89	0.63	29.0%	0.00	0.00	0.0%
2008	0.55	0.33	38.8%	6.73	3.66	45.7%	0.89	0.63	28.9%	0.00	0.00	0.0%
2009	0.54	0.33	38.8%	6.62	3.59	45.7%	0.89	0.63	28.8%	0.00	0.00	0.0%
2010	0.54	0.33	38.7%	6.55	3.55	45.7%	0.89	0.63	28.7%	0.00	0.00	0.0%
2011	0.54	0.33	38.7%	6.50	3.52	45.8%	0.89	0.63	28.7%	0.00	0.00	0.0%
2012	0.54	0.33	38.6%	6.46	3.50	45.8%	0.89	0.63	28.6%	0.00	0.00	0.0%
2013	0.53	0.33	38.6%	6.42	3.48	45.9%	0.89	0.63	28.5%	0.00	0.00	0.0%
2014	0.53	0.33	38.7%	6.39	3.44	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2015	0.53	0.33	38.7%	6.35	3.42	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2016	0.53	0.32	38.7%	6.31	3.40	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2017	0.53	0.32	38.7%	6.28	3.38	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2018	0.53	0.32	38.7%	6.25	3.37	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2019	0.53	0.32	38.7%	6.25	3.37	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%
2020	0.53	0.32	38.7%	6.25	3.37	46.1%	0.89	0.63	28.5%	0.00	0.00	0.0%

** CALIMFAC v 1.10
** California Motor Vehicle Emissions Factor Model
**
** Max efforts program, 80 & later loaded mode, stricter standards
**
** Output file: SENS_MAXEFFORT_80LOADED_STRICTER.OUT
**
** Date of this run: 1/15/ 91
** 14:16
** Calendar Year I/M Benefits Medium Duty Vehicles
**
**

Cal	HC			CO			NOx			EVAP		
Year	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED	NO IM	IM	RED
1980	4.33	4.33	0.0%	41.94	41.94	0.0%	2.64	2.64	0.0%	0.00	0.00	0.0%
1981	4.05	4.05	0.0%	39.27	39.27	0.0%	2.57	2.57	0.0%	0.00	0.00	0.0%
1982	3.77	3.77	0.0%	36.77	36.77	0.0%	2.48	2.48	0.0%	0.00	0.00	0.0%
1983	3.52	3.52	0.0%	34.63	34.63	0.0%	2.40	2.40	0.0%	0.00	0.00	0.0%
1984	3.24	2.67	17.4%	32.80	25.51	22.2%	2.28	2.04	10.6%	0.00	0.00	0.0%
1985	2.96	2.33	21.3%	31.04	23.08	25.7%	2.16	1.87	13.2%	0.00	0.00	0.0%
1986	2.70	2.03	24.8%	29.25	20.86	28.7%	2.05	1.73	15.7%	0.00	0.00	0.0%
1987	2.45	1.77	27.7%	27.39	18.81	31.3%	1.97	1.61	18.2%	0.00	0.00	0.0%
1988	2.23	1.55	30.4%	25.65	16.98	33.8%	1.89	1.50	20.6%	0.00	0.00	0.0%
1989	2.04	1.37	33.1%	24.16	15.44	36.1%	1.83	1.41	22.8%	0.00	0.00	0.0%
1990	1.88	1.22	35.4%	22.93	14.12	38.4%	1.78	1.34	24.6%	0.00	0.00	0.0%
1991	1.74	1.09	37.2%	21.79	12.94	40.6%	1.73	1.28	26.0%	0.00	0.00	0.0%
1992	1.61	0.99	38.8%	20.74	11.89	42.6%	1.68	1.23	27.1%	0.00	0.00	0.0%
1993	1.50	0.90	40.1%	19.82	10.96	44.7%	1.65	1.18	28.1%	0.00	0.00	0.0%
1994	1.41	0.83	41.1%	18.91	10.12	46.5%	1.61	1.15	28.7%	0.00	0.00	0.0%
1995	1.32	0.77	42.0%	18.08	9.37	48.2%	1.59	1.13	29.2%	0.00	0.00	0.0%
1996	1.25	0.71	42.8%	17.36	8.71	49.8%	1.57	1.11	29.5%	0.00	0.00	0.0%
1997	1.19	0.67	43.5%	16.73	8.15	51.3%	1.55	1.09	29.7%	0.00	0.00	0.0%
1998	1.13	0.63	44.3%	16.16	7.67	52.5%	1.54	1.08	29.9%	0.00	0.00	0.0%
1999	1.08	0.59	45.2%	15.67	7.25	53.7%	1.53	1.07	30.0%	0.00	0.00	0.0%
2000	1.04	0.58	44.5%	15.23	7.01	54.0%	1.52	1.06	30.1%	0.00	0.00	0.0%
2001	1.00	0.55	45.1%	14.86	6.83	54.0%	1.51	1.06	30.1%	0.00	0.00	0.0%
2002	0.96	0.52	45.6%	14.55	6.59	54.7%	1.51	1.05	30.2%	0.00	0.00	0.0%
2003	0.94	0.52	44.9%	14.36	6.40	55.4%	1.50	1.05	30.2%	0.00	0.00	0.0%
2004	0.92	0.51	44.3%	14.19	6.23	56.1%	1.49	1.04	30.2%	0.00	0.00	0.0%
2005	0.90	0.50	44.5%	14.04	6.08	56.7%	1.49	1.04	30.2%	0.00	0.00	0.0%
2006	0.89	0.49	44.6%	13.95	5.99	57.1%	1.48	1.03	30.3%	0.00	0.00	0.0%
2007	0.88	0.49	44.7%	13.87	5.91	57.4%	1.48	1.03	30.2%	0.00	0.00	0.0%
2008	0.88	0.48	44.8%	13.82	5.85	57.6%	1.47	1.03	30.2%	0.00	0.00	0.0%
2009	0.88	0.48	44.8%	13.79	5.82	57.8%	1.47	1.03	30.1%	0.00	0.00	0.0%
2010	0.87	0.48	44.8%	13.78	5.79	58.0%	1.47	1.03	30.0%	0.00	0.00	0.0%
2011	0.87	0.48	44.7%	13.77	5.77	58.1%	1.47	1.03	29.9%	0.00	0.00	0.0%
2012	0.87	0.48	44.7%	13.76	5.77	58.1%	1.47	1.03	29.8%	0.00	0.00	0.0%
2013	0.87	0.48	44.6%	13.76	5.76	58.2%	1.47	1.03	29.7%	0.00	0.00	0.0%
2014	0.87	0.48	44.7%	13.75	5.73	58.3%	1.47	1.03	29.7%	0.00	0.00	0.0%
2015	0.87	0.48	44.7%	13.75	5.73	58.3%	1.47	1.03	29.7%	0.00	0.00	0.0%
2016	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%
2017	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%
2018	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%
2019	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%
2020	0.87	0.48	44.7%	13.74	5.72	58.4%	1.47	1.03	29.6%	0.00	0.00	0.0%