

Kansas City PM Characterization Study

Final Report

Appendix H

Other Round 2 Data

Assessment and Standards Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

Sponsors:

National Renewable Energy Laboratory, U.S. Department of Energy
Federal Highway Administration, U.S. Department of Transportation
STAPPA-ALAPCO Emission Inventory Improvement Program
Coordinating Research Council Inc. (Project No. E-69)

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Agency

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Weighted Emissions and Fuel Economy

Weighted Regulated Emissions and Fuel Economy for the Round 1 Kansas City Test Fleet.

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		Miles	Lbs		gm/mile	gm/mile	gm/mile	gm/mile	mpg
84032	2001 Chevrolet Cavalier	57066	3000	6.4	0.124	0.10	0.43	361.4	23.75
84034	1999 IsuzuTrooper	63387	4500	14.8	0.122	0.47	2.18	506.3	16.88
84035	2001 GMC Yukon	75374	5500	18.8	0.292	0.52	3.54	704.4	12.11
84036	1995 Ford Escort	102663	2750	5.6	0.197	1.64	6.70	349.6	23.86
84037	1979 Ford F250	02285	3500	10.5	1.557	1.26	32.78	667.6	11.89
84039	2001 Ford F150	48831	5500	16.2	0.219	0.18	2.07	674.6	12.69
84040	1990 Dodge Spirit	109270	3000	8.7	0.358	2.40	8.98	407.7	20.35
84042	1996 Honda Civic	131492	2500	6.9	0.313	0.63	4.76	319.3	26.27
84043	1991 Honda Civic	216571	2500	6.9	0.570	2.33	10.46	289.5	27.97
84047	1996 Mazda 626	26614	3000	7.7	0.143	0.07	0.87	439.4	19.51
84048	1989 Dodge Caravan	161033	3500	7.6	1.104	3.44	9.09	422.1	19.57
84050	2002 Honda Civic	50405	3000	5.3	0.079	0.06	2.89	366.9	23.16
84051	1995 Chevy Corsica	111484	3000	5.9	0.175	0.86	5.17	361.2	23.27
84052	1988 Olds Cutlass	81545	3000	6.4	0.469	2.11	5.25	460.4	18.31
84054	1995 GMC Jimmy	102924	3500	10.7	0.208	1.11	2.84	511.6	16.66
84055	1998 Jeep Cherokee	131884	3500	11.8	1.066	4.15	9.77	507.5	16.36
84056	2002 Nissan Frontier P/U	38153	4500	16.5	0.105	0.30	3.47	535.0	15.92
84057	2001 Saturn SL1	51541	2500	6.1	0.517	0.10	16.26	281.4	27.90
84058	1999 Chrysler 300M	73246	3500	5.8	0.130	0.33	0.92	461.2	18.59
84061	1990 Chevy Cavalier	81297	2750	5.6	0.536	1.07	4.90	352.5	23.79
84063	1998 Saturn SC	74642	2500	6.0	0.135	0.56	0.79	341.7	25.07
84064	1994 Mercury Villager	131405	4000	8.4	0.277	1.28	3.40	444.1	19.12
84066	1995 Jeep Wrangler	71165	3000	15.7	0.467	0.38	15.86	437.5	18.56
84067	1995 Dodge Caravan	138912	4000	7.0	0.438	1.58	5.54	446.3	18.86
84068	2001 Toyota Solara	48090	3500	7.0	0.109	0.32	2.01	465.7	18.35
84069	1997 Dodge Caravan Sport	90070	3500	7.2	0.214	0.68	1.44	446.5	19.15
84071	1989 Pontiac Grand Am	116827	3000	5.9	2.231	5.35	11.26	341.2	23.53
84072	2003 Chevy S_10 P/U	19374	3500	12.0	0.095	0.19	0.54	515.0	16.68
84073	1995 Chevy Blazer	100766	3500	10.7	0.395	1.44	6.09	457.5	18.38
84074	1986 Nissan P/U	138620	3500	11.4	0.358	4.53	12.23	390.8	20.94
84076	1968 FordMustang	98864	3000	8.0	4.724	3.37	68.23	477.5	14.36
84077	1999 Honda Civic	76504	2500	5.1	0.072	0.21	3.18	264.2	31.95
84078	1997 Honda Accord	79593	3000	4.9	0.122	0.31	2.76	382.0	22.26
84079	1989 Honda Accord	209991	2750	6.0	1.863	0.98	64.21	370.4	18.04
84082	2003 Ford Taurus	25287	3500	6.8	0.059	0.11	0.44	458.9	18.72
84083	2000 Honda Accord	77962	3000	7.8	0.087	0.18	3.13	368.6	23.03
84084	1998 Chevy Malibu	99436	3000	5.8	0.122	0.65	1.02	414.7	20.66

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		Miles	Lbs		gm/mile	gm/mile	gm/mile	gm/mile	mpg
84086	2004 Honda Odyssey	21035	4500	12.0	0.097	0.11	1.34	509.9	16.80
84087	2000 Hyundai Tiburon	89226	3000	5.9	0.115	0.36	1.11	396.0	21.62
84088	1998 Chevrolet Lumina	70740	3500	5.5	0.235	0.54	2.34	448.2	19.02
84090	1999 Ford Mustang	39505	3500	9.7	0.130	0.35	1.21	469.4	18.25
84091	1991 Cadillac Seville	70502	3500	6.2	0.284	0.72	5.53	521.9	16.20
84092	1999 Saturn	53427	2500	5.5	0.065	0.89	0.50	314.9	27.25
84093	1997 Nissan Sentra	119201	2750	7.0	0.191	0.60	1.52	367.8	23.22
84094	1993 Ford Explorer	120280	4000	10.2	0.303	1.90	8.50	513.9	16.30
84096	1999 Isuzu Rodeo	114937	4000	14.0	1.044	1.63	10.30	489.9	16.90
84097	2002 Mercury Sable	24589	3500	6.8	0.077	0.09	0.20	436.6	19.69
84098	1999 Ford Ranger	91045	3500	12.1	0.161	0.36	1.39	486.2	17.61
84099	1999 Toyota Avalon	114759	3500	5.9	0.318	0.38	1.75	413.8	20.62
84101	2004 Toyota Camry	169043	3500	7.2	0.558	2.16	22.96	383.2	20.45
84102	1998 Honda Civic	149665	2500	5.1	0.189	0.59	7.15	253.9	32.39
84103	2000 Nissan Maxima	74273	3500	7.4	0.172	0.48	1.00	426.3	20.09
84105	1997 Toyota Corolla	146471	2750	7.8	0.324	0.54	4.39	301.7	27.80
84107	1989 Buick LeSabre	108562	3500	7.0	0.266	0.74	3.81	453.5	18.70
84108	1990 Honda Civic	214131	2500	6.5	0.644	2.66	12.27	325.4	24.83
84113	1993 Pontiac Grand Prix	172185	3500	5.0	0.887	1.73	19.54	435.5	18.36
84119	1995 Jeep Cherokee	171701	4000	13.1	1.838	5.77	14.08	510.1	16.00
84121	2001 Volvo S80	55523	4000	4.0	0.079	0.08	0.40	456.8	18.81
84122	1999 Dodge Caravan	104207	4000	7.3	0.164	0.34	1.31	474.0	18.06
84125	1995 Ford Explorer	160621	4500	11.5	0.219	2.24	6.12	544.8	15.51
84126	1988 Ford Thunderbird	178221	3500	9.1	0.847	1.73	11.69	510.8	16.19
84127	2000 Chrysler Town and Country	85431	4500	9.3	0.218	0.44	2.36	554.4	15.41
84128	2000 Toyota Camry	48465	3500	7.3	0.244	0.46	3.05	402.2	21.11
84129	1999 Toyota Celica GT	72233	3000	6.5	0.242	0.44	3.29	371.4	22.81
84131	1997 Chevy Cavalier	128172	3000	5.4	0.151	0.59	3.75	363.7	23.26
84133	1998 Buick Century	71195	3500	5.9	0.149	0.35	1.25	441.8	19.38
84134	1997 Mercury Grand Marquis	74497	4000	9.5	0.280	1.62	8.33	522.1	16.06
84135	1993 Ford Probe	129131	3000	8.1	0.431	0.57	5.04	388.4	21.65
84138	1995 Ford Bronco	198053	5000	10.7	0.538	2.50	6.92	648.1	13.03
84139	1999 Ford Escort	66820	2750	5.6	0.080	0.72	3.49	336.0	25.19
84140	2002 Chevy Blazer	35072	3500	11.3	0.090	0.22	1.02	508.2	16.88
84141	1990 Honda Accord	170433	3000	5.9	0.442	0.97	6.65	368.1	22.66
84144	1993 Plymouth Voyager	170027	4000	7.3	0.844	2.03	8.24	452.1	18.41
84145	1990 Jeep Cherokee	261848	3500	10.8	1.154	2.07	13.76	280.7	28.14
84146	1988 Ford Ranger	74743	3500	10.2	1.184	1.63	9.86	378.0	21.67
84148	1991 Dodge Dynasty	91324	3000	6.8	1.165	3.45	7.71	431.5	19.25
84149	2002 Ford Escort SE	26748	3000	7.3	0.078	0.09	0.71	342.8	25.01
84150	2000 Honda Odyssey	68979	4500	9.6	0.161	0.37	4.54	515.0	16.47
84153	2000 Ford F150 PU	61040	4500	16.9	0.116	0.41	0.66	573.4	14.98
84154	1979 Ford F150 PU	53503	3500	11.7	12.132	4.69	113.51	572.0	10.93
84157	1994 Nissan Sentra	127063	2750	7.1	0.462	0.82	5.66	298.4	27.88

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		Miles	Lbs		gm/mile	gm/mile	gm/mile	gm/mile	mpg
84160	2001 Ford Focus	52253	3000	7.3	0.125	0.35	2.09	383.7	22.22
84161	1997 Volvo 850	65093	3500	6.0	0.245	0.79	1.00	482.7	17.75
84162	1983 Chrysler Lebaron	43291	2750	5.5	0.475	0.81	24.26	425.9	18.49
84164	1999 Plymouth Voyager	74703	4000	6.6	0.188	0.27	1.46	456.6	18.74
84165	1991 Mazda Protege	185576	2750	7.9	3.395	4.42	13.01	314.7	24.91
84167	1999 Ford Ranger P/U	92926	3500	11.4	0.294	0.61	5.65	415.7	20.23
84168	1996 Buick Regal Grand Sport	139861	3500	5.6	0.145	0.78	1.98	448.6	19.04
84171	1988 Honda Civic DX	205828	2250	6.4	1.186	1.37	14.86	278.1	28.21
84172	1986 Cadillac Cimmaron	17610	3000	5.9	0.454	0.94	5.75	431.4	19.48
84173	1996 Mercury Sable	110411	3500	6.9	0.468	1.12	5.20	377.9	22.21
84174	1994 Mercury Topaz	32694	3000	6.1	0.368	1.30	1.67	534.5	15.99
84178	1997 Toyota Camry	129432	3500	7.3	0.228	0.61	2.68	398.6	21.33
84179	1998 Jeep Cherokee	82874	3500	11.8	0.490	1.29	6.71	501.0	16.78
84182	1995 Ford Thunderbird	135049	4000	10.6	0.467	1.41	12.13	565.3	14.70
84183	2000 Toyota Corolla	70126	2750	7.5	0.144	0.59	1.55	333.8	25.57
84184	2000 Honda Civic	40410	2750	7.0	0.152	0.11	7.08	321.8	25.82
84185	1996 Toyota Corolla	148865	2750	6.6	0.358	0.68	4.87	310.8	26.94
84188	1977 Chevy Monte Carlo	35553	4000	11.6	4.706	2.12	66.09	504.6	13.82
84189	1984 Ford F150 Pickup	72318	3500	12.9	18.474	1.50	199.74	349.1	11.96
84191	2000 Toyota Camry	47780	3500	7.3	0.218	0.38	2.13	381.5	22.33
84192	2001 GMC Sonoma	60059	3500	11.3	0.067	0.19	1.09	505.6	16.96
84193	2001 Hyundai Sante Fe	70621	4000	8.7	0.102	0.56	2.99	436.0	19.52
84195	1999 Chevy Lumina	42985	3500	5.4	0.135	0.40	1.01	450.6	19.02
84196	1993 GMC Safari	283231	4000	12.5	2.068	3.04	15.06	477.9	16.95
84197	1990 Buick Regal	103881	3000	6.8	0.352	2.07	6.53	422.6	19.84
84201	1985 Chev S10	30305	3000	10.4	5.676	3.47	78.62	416.6	15.44
84205	1998 Ford F150	98670	4500	13.3	0.144	0.56	3.59	606.3	14.06
84206	1994 Chevy P/U	99225	4000	12.2	0.807	0.66	13.11	578.7	14.30
84208	1989 Lincoln Towncar	82512	4000	12.7	2.217	3.90	28.56	502.7	15.53
84209	1996 Dodge Stratus	126733	3000	7.5	0.518	3.77	12.39	406.7	20.12
84210	1988 Mazda MX6	222715	3000	6.8	0.821	2.87	11.59	340.6	23.83
84211	1986 Ford Tempo	60031	2500	6.9	0.463	1.04	9.69	419.2	19.75
84213	1985 Olds Regency 98	188058	3500	7.9	0.597	0.98	23.60	555.2	14.49
84214	1994 Pontiac Bonneville	125226	3500	5.3	0.154	0.63	1.93	493.8	17.31
84215	1992 Nissan Maxima	53987	3500	8.5	0.193	0.63	2.05	453.0	18.84
84216	1990 Ford F150 P/U	71131	4000	15.5	0.511	2.29	1.37	561.0	15.24
84219	1994 Chrysler Concorde	169018	3500	7.8	1.002	2.42	9.15	446.0	18.57
84220	1992 Ford Escort	12788	2750	6.4	1.368	1.26	49.94	326.0	21.06
84221	1985 Ford LTD Crown Victoria	100260	3500	9.3	1.276	0.74	27.44	544.5	14.55
84223	2005 Dodge Caravan	18159	4000	8.0	0.051	0.17	0.68	478.5	17.95
84224	2002 Ford Taurus	72468	3500	6.5	0.062	0.13	0.53	440.3	19.51
84225	2000 Honda Civic LX	35766	2750	7.0	0.120	0.09	7.07	302.7	27.39
84227	1997 Buick Century	86430	3500	5.9	0.168	0.41	1.30	429.0	19.95
84228	1992 Pontiac Grand Am	140191	3000	4.7	1.249	1.46	33.01	424.1	17.94

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		Miles	Lbs		gm/mile	gm/mile	gm/mile	gm/mile	mpg
84229	2000 Olds Silhouette	85292	4000	11.5	0.156	0.48	1.40	546.8	15.67
84230	1993 Nissan Sentra	87073	2500	6.2	0.314	0.51	7.48	336.2	24.67
84231	1994 Olds Eighty Eight	128014	3500	6.5	0.186	0.40	2.09	484.8	17.62
84233	1989 Toyota Corolla	181875	2500	5.9	0.846	1.49	13.29	309.5	25.85
84234	1991 VW Cabriolet	63829	2750	8.0	0.229	1.04	3.26	337.4	25.08
84235	1990 Geo Prizm	176712	2500	6.9	2.145	4.98	14.26	310.2	25.38
84236	1992 Olds Achieva	177104	3000	4.9	0.461	2.34	6.69	395.9	21.11
84238	1988 Pontiac 6000 Wagon	133737	3500	6.8	0.719	1.60	6.85	419.2	19.92
84239	1987 Ford Taurus	33610	3000	6.9	0.415	1.38	7.47	499.3	16.80
84240	1998 Infiniti I30	50005	3500	6.4	0.184	0.25	0.58	432.2	19.85
84241	1998 Ford Contour	118535	3000	4.8	0.605	0.36	22.17	418.0	18.93
84242	1997 Plymouth Voyager	70430	3500	6.7	0.248	0.43	1.34	454.4	18.82
84244	1992 Ford Escort	11345	2750	7.4	1.561	2.83	20.24	329.0	23.55
84245	1987 Honda Accord	19268	2750	6.0	3.011	2.16	18.35	385.4	20.33
84246	1994 Eagle Talon	109747	3500	10.6	0.731	1.22	10.72	496.2	16.70
84248	1987 Ford Ranger	1705	3000	10.4	1.083	1.64	8.67	437.7	18.93
84250	1987 Ford Escort	78217	2500	7.4	2.935	2.57	27.34	317.7	23.29
84252	2001 Ford Taurus	30917	3500	6.8	0.163	0.06	1.24	470.0	18.22
84253	1997 Mercury Sable	104330	3500	8.0	0.210	0.93	5.06	446.2	18.93
84256	1989 Chevy S10 P/U	174034	3000	10.4	0.425	1.44	8.88	447.8	18.59
84257	1983 Volvo GL	184224	3000	10.5	0.556	2.20	5.71	466.9	18.02
84261	1989 Toyota Camry	269020	3500	7.7	1.218	2.01	11.74	170.7	44.62
84263	1989 Dodge Ram P/U	132325	3500	15.0	1.209	2.59	43.05	398.7	18.31
84265	1984 Buick Century	1878	3000	7.3	11.214	1.24	135.03	521.1	11.21
84266	2000 Kia Sephia	58660	2750	6.3	0.090	0.14	0.32	361.7	23.75
84267	1989 Chevrolet Cavalier	58439	2750	6.7	0.336	1.19	5.59	376.8	22.26
84268	1994 Ford F150 P/U	169749	4500	12.9	0.725	3.84	2.75	591.6	14.39
84270	1986 Mercury Grand Marquis	36277	4000	10.7	0.949	1.72	11.19	500.9	16.51
84271	1979 Buick LeSabre	37608	3500	10.5	1.283	7.53	11.88	508.1	16.22
84272	2001 Honda Accord	39702	3500	7.8	0.076	0.08	1.14	426.5	20.09
84274	1995 Ford Aspire	188078	2250	6.1	0.501	1.88	7.33	307.3	26.87
84276	1989 Buick Park Avenue	128607	3500	6.0	0.207	1.12	2.49	467.7	18.23
84277	1978 MG MGB	42926	2750	6.1	14.547	1.03	150.16	267.5	15.70
84278	1990 GMC Jimmy	130254	3500	14.5	0.571	0.63	10.77	426.7	19.33
84279	2001 Toyota Camry 3.0L	61415	4000	7.0	0.114	0.18	4.11	470.0	18.05
84280	1999 Ford Escort	74102	2750	4.9	0.079	0.65	2.94	315.3	26.89
84281	1995 Chevy Suburban	73848	5000	10.8	0.469	1.22	11.19	660.0	12.68
84283	1986 Dodge P/U	47582	3500	12.8	5.775	1.65	79.25	433.1	14.96
84284	1987 Chevy Caprice Wagon	29828	4500	9.6	1.318	4.59	29.82	520.2	15.07
84285	2000 Honda Civic	46677	2750	7.0	0.131	0.14	5.75	339.5	24.67
84286	1997 Olds. Silhouette	111026	4000	10.1	0.230	2.22	5.18	535.5	15.81
84287	1995 GMC Sierra P/U	171370	4000	12.2	0.639	1.56	7.60	492.0	17.02
84289	1984 Olds Custom Cruiser Wagon	8983	4500	11.6	4.981	4.96	69.64	458.7	14.75
84291	1997 Honda Civic	75783	2500	5.0	0.277	0.36	4.36	285.0	29.41

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		Miles	Lbs		gm/mile	gm/mile	gm/mile	gm/mile	mpg
84292	1997 Toyota Camry	127414	3500	7.3	0.282	0.77	7.67	414.6	20.14
84293	1984 Volvo GL Wagon	299703	3000	10.7	1.102	2.56	10.11	410.3	20.04
84295	1987 Chevy Caprice Classic	85915	4000	9.7	4.017	2.56	44.97	501.6	14.72
84296	1998 Honda Civic	115370	2500	5.1	0.093	0.08	3.67	277.4	30.37
84297	1996 Dodge Stratus	146579	3000	7.5	0.359	0.63	8.55	389.7	21.30
84298	1999 Dodge Durango	92681	5000	16.9	0.235	0.87	7.69	702.4	12.04
84300	1990 Buick Lesabre	59413	3500	6.8	0.183	0.39	1.89	461.6	18.50
84301	1989 Pontiac Grand Prix	149395	3500	4.5	3.365	1.66	32.08	470.3	16.21
84302	1993 Ford F150 P/U	184984	4500	12.8	0.534	1.91	6.20	539.1	15.64
84303	2002 Olds Silhouette	40271	4500	16.2	0.073	0.25	0.76	519.6	16.52
84304	2001 Honda Civic	49751	2750	8.0	0.051	0.15	1.08	329.6	25.97
84305	1999 Chevy Malibu	76627	3500	5.8	0.130	0.53	1.71	411.4	20.77
84307	1992 Honda Accord	74582	3000	5.7	0.217	0.60	3.61	394.6	21.47
84309	1973 Mercedes 280 SE	81588	4000	11.4	9.252	2.16	174.36	507.2	10.63
84310	2003 Chevy Venture	24915	4500	16.2	0.073	0.22	0.83	534.6	16.05
84311	1989 Toyota Corolla	80749	2500	5.9	0.394	1.13	11.50	332.5	24.47
84314	1989 Plymouth Sundance	144672	2750	6.9	0.697	2.38	18.96	361.9	21.86
84315	1991 Plymouth Voyager	158771	3500	7.6	0.990	1.93	6.74	370.9	22.38
84316	1996 Dodge Avenger	124729	3000	4.4	0.859	0.77	7.94	349.0	23.64
84317	2000 Nissan Altima	95313	3500	7.9	0.133	0.88	5.95	416.0	20.22
84318	1997 Nissan Sentra	154255	2750	7.0	0.286	1.08	3.84	340.6	24.77
84319	1998 Toyota Camry	127663	3500	6.4	0.209	0.63	2.59	389.5	21.84
84322	1990 Toyota Camry	202804	3000	5.9	0.299	1.28	7.47	314.1	26.34
84323	2004 Kia Rio Cinco	6260	2750	6.7	0.037	0.05	0.60	324.7	26.42
84324	1999 Toyota Camry	60286	3500	6.4	0.247	0.47	4.91	405.6	20.79
84325	1998 Nissan Maxima	111655	3000	6.1	0.410	0.41	2.16	405.9	20.97
84327	1998 Ford Taurus	77804	3500	5.0	0.124	0.26	1.86	442.9	19.29
84329	1997 Jeep Wrangler	94832	3500	16.1	0.204	0.27	2.22	509.1	16.77
84330	2004 Chevrolet Cavalier	8420	3000	3.9	0.078	0.03	0.63	348.9	24.58
84334	1990 Chevrolet Caprice Estate Wagon	72464	4500	9.6	3.097	1.93	59.03	618.4	11.94
84335	1988 Mercury Grand Marquis	87717	4000	12.5	0.665	1.19	4.84	513.9	16.44
84336	1987 Toyota P/U	225176	2750	9.6	0.591	3.37	1.11	381.5	22.36
84337	2003 Ford Ranger P/U	11678	3500	4.1	0.066	0.19	0.45	479.2	17.93
84338	2001 Saturn	63172	3000	6.4	0.060	0.09	0.56	383.4	22.39
84339	1999 Plymouth Grand Voyager	75489	4000	6.6	0.186	0.39	1.28	504.1	16.99
84342	1994 Toyota Camry	128229	3500	7.2	0.186	0.33	1.32	452.1	18.93
84343	2004 Kia Sedona	6344	4000	6.8	0.050	0.00	0.55	516.6	16.63
84344	2000 Toyota Sienna	131771	4000	6.5	0.380	0.65	2.25	526.6	16.20
84347	1995 Toyota Corolla	106201	2500	6.0	0.355	0.86	5.18	339.7	24.67
84349	2003 Chevrolet Tracker	22365	3000	12.7	0.097	0.19	0.48	428.9	20.02
84351	1996 Ford Contour	98572	3000	5.6	0.186	0.42	6.33	377.3	22.20
84353	1993 Saturn Wagon	220839	3000	4.8	0.620	0.97	11.63	321.1	25.22
84354	1989 Ford F150	61510	4000	15.3	1.374	5.85	6.79	599.2	14.02
84355	2001 Chevrolet Lumina	57829	3500	7.0	0.072	0.23	1.07	452.4	18.95

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		Miles	Lbs		gm/mile	gm/mile	gm/mile	gm/mile	mpg
84356	1997 Pontiac Grand Am	120921	3000	3.8	0.187	1.37	5.10	371.7	22.63
84357	1995 Mercury Tracer	146970	2750	4.5	1.086	0.57	44.54	304.5	22.78
84359	1992 Toyota Corolla	84923	2750	8.6	0.205	1.10	3.16	339.1	24.98
84361	2002 Nissan Maxima	80356	3500	5.0	0.095	0.09	1.11	445.1	19.25
84362	1998 Ford Taurus	91855	3500	5.0	0.130	0.17	1.59	419.9	20.36
84363	1996 Toyota Corolla	288784	2750	6.6	0.651	1.49	7.27	325.0	25.44
84365	1993 Ford Taurus	69365	3500	5.5	0.309	0.66	6.42	483.6	17.40
84366	1989 Olds Cutlass Wagon	118187	3000	5.7	0.231	0.75	3.30	417.1	20.35
84367	1980Mercedes 450 SEL	185888	4000	8.3	15.310	0.25	268.12	323.0	10.88
84368	1997 Saturn SL	170227	2500	6.7	0.242	0.55	1.67	313.0	27.21
84369	1996 Volvo 850 Wagon	81784	3500	7.3	0.288	1.38	4.79	475.0	17.81
84370	1995 Ford Taurus	70394	3500	5.4	0.157	0.55	2.19	427.2	19.97
84372	1994 Toyota Camry	88215	3500	7.2	0.218	0.24	1.23	409.1	20.91
84373	1990 Chevrolet Astrovan	235476	4000	12.0	6.621	0.52	166.23	379.7	13.02
84375	2001 Ford Windstar	37923	4500	10.1	0.057	0.19	1.24	506.7	16.92
84376	2000 Honda Odyssey	117948	4500	9.6	0.850	0.62	13.90	503.0	16.32
84377	1997 Honda Accord	77801	3000	4.9	0.120	0.23	1.32	344.5	24.81
84379	1998 Pontiac Grand Am	75722	3000	4.4	0.144	0.55	5.63	427.9	19.69
84380	1995 Lincoln Continental	100959	4000	5.7	0.411	1.00	4.70	427.0	19.76
84381	1994 Mercury Marquis	127784	4000	10.7	0.494	0.95	6.55	478.2	17.57
84382	1999 VW Cabrio	38317	3000	6.9	0.131	0.36	2.11	355.5	23.96
84383	1996 Toyota Camry	164875	3500	6.9	0.085	0.31	2.27	400.9	21.27
84384	1996 Geo Prizm	169535	2750	7.0	0.559	1.01	7.65	324.9	25.42
84386	1990 Nissan Maxima	258738	2750	5.8	0.574	0.76	4.60	398.4	21.13

Correlation Testing Data

Comparison of SEMTECH and Dyno Emission Measurement

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84032	1	0.53	2.36	7.21	7.77	0.53	0.63	584.67	586.11	15.86	1.12
84032	2	0.02	0.01	0.14	0.05	0.05	0.05	338.13	338.79	1.61	8.59
84032	3	0.05	0.03	0.15	0.11	0.33	0.40	460.53	462.20	6.00	1.19
84032	A	0.05	0.12	0.49	0.43	0.09	0.10	358.89	359.64	2.62	10.91
84034	1	0.57	1.09	4.14	3.45	1.43	1.50	848.87	836.92	9.26	1.20
84034	2	0.07	0.07	3.15	2.14	0.49	0.40	523.01	472.95	2.19	8.72
84034	3	0.09	0.07	2.01	1.33	0.51	0.44	712.83	631.57	4.24	1.22
84034	A	0.10	0.12	3.12	2.15	0.54	0.46	553.22	502.92	2.70	11.13
84035	1	1.10	2.22	12.39	12.25	2.56	2.80	1079.75	1053.73	6.32	1.20
84035	2	0.21	0.18	4.67	3.16	0.47	0.39	809.65	665.10	6.27	8.64
84035	3	0.18	0.19	1.21	0.74	0.39	0.39	893.91	838.55	0.96	1.20
84035	A	0.26	0.29	4.84	3.47	0.58	0.51	829.64	697.48	5.91	11.03
84036	1	1.74	1.79	15.03	12.97	2.78	2.86	616.58	577.11	6.60	1.18
84036	2	0.10	0.10	7.03	6.34	1.58	1.56	314.28	326.66	1.63	8.63
84036	3	0.31	0.26	7.59	5.66	1.55	1.56	514.53	442.04	0.73	1.18
84036	A	0.20	0.20	7.48	6.64	1.64	1.63	343.57	347.55	1.82	10.99
84037	1	8.98	9.33	157.35	154.15	1.38	1.45	971.63	935.24	11.88	1.20
84037	2	1.78	1.02	49.48	25.05	1.84	1.15	1016.34	635.31	9.52	8.67
84037	3	2.15	2.44	33.06	32.90	2.50	2.38	806.51	757.62	2.56	1.19
84037	A	2.18	1.55	54.00	32.34	1.86	1.25	999.49	659.41	9.16	11.06
84039	1	1.38	1.70	10.33	10.69	0.67	0.71	956.87	1005.49	7.83	1.23
84039	2	0.10	0.14	2.04	1.64	0.22	0.16	658.23	635.99	2.39	8.76
84039	3	0.08	0.12	1.09	0.73	0.02	0.01	857.38	833.81	2.19	1.19
84039	A	0.17	0.22	2.42	2.05	0.23	0.18	687.53	668.97	2.66	11.17
84040	1	1.88	1.91	23.61	20.81	3.56	3.81	624.56	599.08	2.53	1.17
84040	2	0.29	0.25	9.56	8.07	2.48	2.32	395.08	387.23	4.96	8.55
84040	3	0.76	0.57	16.07	11.23	2.15	2.20	572.60	599.08	2.53	1.17
84040	A	0.40	0.36	10.73	8.95	2.51	2.38	419.13	405.32	4.84	10.89
84042	1	3.03	3.04	16.66	15.25	2.87	2.82	519.65	470.51	15.37	1.14
84042	2	0.15	0.15	4.81	4.17	0.55	0.51	300.54	305.30	1.80	8.65
84042	3	0.53	0.39	6.91	4.38	0.68	0.60	456.19	373.53	4.66	1.16
84042	A	0.32	0.31	5.54	4.74	0.67	0.63	322.05	318.20	2.68	10.96
84043	1	2.89	2.96	23.68	20.48	2.70	3.14	441.70	405.65	5.89	1.22
84043	2	0.47	0.41	11.47	9.81	2.41	2.26	309.64	277.19	3.57	8.62
84043	3	1.01	0.74	14.70	10.28	2.54	2.31	476.13	339.91	0.87	1.19
84043	A	0.63	0.57	12.34	10.41	2.43	2.31	328.11	288.37	3.50	11.03
84047	1	1.38	1.79	4.78	5.27	0.56	0.70	670.92	710.46	9.67	1.18
84047	2	0.04	0.04	0.52	0.41	0.05	0.04	404.65	413.05	1.10	8.64
84047	3	0.19	0.19	4.27	3.39	0.02	0.00	523.51	540.98	3.27	1.19
84047	A	0.12	0.14	1.00	0.87	0.07	0.07	426.67	437.27	1.69	11.01
84048	1	6.19	6.61	17.30	15.82	6.33	6.73	613.59	607.88	239.55	1.19
84048	2	0.59	0.72	8.74	8.29	3.07	3.07	378.71	399.16	47.17	8.64
84048	3	1.67	1.77	17.27	13.54	4.90	5.27	578.25	538.36	89.24	1.18
84048	A	0.95	1.10	9.77	9.04	3.36	3.41	404.66	419.55	60.03	11.01

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84050	1	1.02	0.98	14.07	11.56	0.44	0.45	661.16	579.28	1.73	1.18
84050	2	0.02	0.03	2.68	2.36	0.05	0.03	394.99	345.72	1.53	8.66
84050	3	0.05	0.04	3.94	2.94	0.08	0.03	600.97	453.41	1.58	1.18
84050	A	0.07	0.08	3.35	2.88	0.07	0.06	422.82	365.13	1.55	11.01
84051	1	1.67	1.69	22.01	19.78	2.89	3.12	579.39	548.13	0.53	1.18
84051	2	0.07	0.08	4.02	4.21	0.71	0.73	312.83	341.88	0.55	8.61
84051	3	0.33	0.28	8.37	6.22	0.74	0.81	515.12	449.61	0.43	1.16
84051	A	0.17	0.18	5.25	5.15	0.83	0.86	340.36	359.84	0.54	10.95
84052	1	3.54	3.68	24.79	22.90	4.00	4.05	722.87	696.45	6.27	1.19
84052	2	0.24	0.21	5.05	4.05	1.96	1.91	470.72	430.18	5.47	8.71
84052	3	1.29	1.35	8.11	6.95	2.82	3.01	652.76	631.04	5.59	1.19
84052	A	0.48	0.47	6.28	5.22	2.13	2.10	496.24	457.68	5.52	11.09
84054	1	2.74	2.92	25.78	24.00	3.64	3.75	745.11	732.62	7.50	1.20
84054	2	0.04	0.04	1.62	1.40	1.01	0.93	494.26	483.33	1.22	8.57
84054	3	0.23	0.24	5.62	4.86	1.29	1.29	682.47	646.47	16.58	1.18
84054	A	0.19	0.21	3.16	2.83	1.17	1.10	520.38	507.74	2.60	10.95
84055	1	2.89	2.93	25.06	23.41	5.42	5.26	856.50	786.43	5.07	1.21
84055	2	0.90	0.86	10.44	8.57	4.99	4.03	572.19	476.31	4.64	8.65
84055	3	2.28	2.16	16.32	13.58	4.84	4.56	729.99	641.51	7.21	1.19
84055	A	1.10	1.06	11.62	9.70	5.00	4.13	598.08	504.10	4.84	11.05
84056	1	0.57	0.69	4.00	4.35	0.63	0.81	749.34	813.63	2.28	1.18
84056	2	0.08	0.07	4.01	3.51	0.30	0.27	509.49	505.05	1.45	8.62
84056	3	0.08	0.06	1.83	1.69	0.23	0.24	667.51	652.20	0.53	1.19
84056	A	0.10	0.10	3.86	3.43	0.31	0.30	532.78	531.17	1.43	10.99
84057	1	0.34	0.40	2.61	2.60	0.97	0.94	493.85	465.98	1.99	1.18
84057	2	0.54	0.55	17.95	17.52	0.06	0.05	253.61	264.70	1.15	8.64
84057	3	0.20	0.21	9.17	9.20	0.02	0.01	381.88	342.36	0.93	1.20
84057	A	0.51	0.51	16.55	16.17	0.10	0.09	274.90	280.47	1.17	11.02
84058	1	1.79	2.01	8.74	9.15	1.34	1.59	687.11	723.18	1.79	1.16
84058	2	0.03	0.03	0.47	0.39	0.23	0.25	429.74	431.38	1.06	8.63
84058	3	0.03	0.05	1.55	1.57	0.37	0.45	582.43	624.35	0.83	1.17
84058	A	0.12	0.13	0.97	0.92	0.29	0.33	453.18	459.34	1.08	10.96
84060	1	0.97	1.15	7.15	7.82	1.04	1.14	783.31	801.38	1.46	1.18
84060	2	0.03	0.02	0.45	0.33	0.93	0.90	418.65	441.95	1.06	8.59
84060	3	0.33	0.30	4.98	4.49	1.28	1.22	659.86	612.09	0.42	1.18
84060	A	0.10	0.10	1.11	1.00	0.96	0.93	454.28	472.34	1.04	10.95
84061	1	2.64	2.44	22.30	17.66	2.23	2.28	642.39	525.64	4.63	1.16
84061	2	0.42	0.38	4.79	4.05	0.98	0.94	375.25	332.48	1.35	8.62
84061	3	1.28	1.09	7.91	5.85	1.90	1.78	661.00	453.24	1.59	1.19
84061	A	0.59	0.53	5.90	4.87	1.11	1.06	408.73	350.69	1.53	10.97
84062	1	0.80	0.91	6.27	6.84	1.38	1.58	791.19	819.89	2.58	1.17
84062	2	0.02	0.01	0.30	0.20	0.82	0.87	406.40	449.28	1.04	8.61
84062	3	0.12	0.13	1.79	1.53	1.06	1.06	646.36	614.59	3.40	1.18
84062	A	0.07	0.07	0.71	0.64	0.86	0.92	442.69	479.74	1.28	10.97

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84063	1	1.88	1.90	5.45	5.03	4.31	4.34	596.93	547.42	3.90	1.19
84063	2	0.03	0.03	0.36	0.50	0.33	0.34	282.37	323.17	2.06	8.65
84063	3	0.13	0.11	1.61	1.14	0.43	0.44	447.23	398.35	1.33	1.18
84063	A	0.13	0.13	0.71	0.78	0.54	0.55	310.08	340.02	2.11	11.03
84064	1	3.17	3.42	16.65	15.65	5.01	5.64	700.59	701.62	2.88	1.17
84064	2	0.09	0.08	3.33	2.63	1.00	1.00	395.52	415.91	0.48	8.63
84064	3	0.42	0.42	4.61	3.45	1.42	1.44	624.03	577.38	-0.56	1.18
84064	A	0.27	0.28	4.10	3.36	1.23	1.27	426.96	441.66	0.53	10.98
84066	1	2.93	2.72	33.03	26.24	1.80	1.76	703.09	585.20	2.44	1.19
84066	2	1.07	0.34	29.21	15.52	0.53	0.29	668.03	418.83	7.02	8.59
84066	3	0.36	0.34	8.26	6.29	0.50	0.40	704.36	523.08	1.71	1.18
84066	A	1.12	0.46	27.96	15.44	0.59	0.37	672.38	434.73	6.42	10.97
84067	1	3.11	3.28	18.92	17.01	3.86	4.32	668.66	672.55	4.31	1.19
84067	2	0.22	0.24	5.08	4.68	1.32	1.39	398.11	419.32	1.76	8.65
84067	3	0.64	0.77	7.99	7.47	1.76	1.86	600.11	587.91	1.95	1.17
84067	A	0.40	0.44	5.99	5.51	1.48	1.58	425.97	443.94	1.90	11.01
84068	1	1.21	1.38	7.87	7.60	1.40	1.82	765.86	787.08	2.69	1.17
84068	2	0.03	0.03	2.23	1.76	0.23	0.23	407.80	433.48	0.23	8.63
84068	3	0.09	0.11	0.81	0.54	0.23	0.30	620.12	602.44	0.38	1.18
84068	A	0.09	0.11	2.42	1.97	0.29	0.32	440.70	463.20	0.36	10.98
84069	1	2.39	2.55	16.72	15.40	2.80	3.12	682.98	688.80	2.29	1.20
84069	2	0.06	0.07	0.57	0.54	0.48	0.51	378.15	418.70	0.45	8.64
84069	3	0.21	0.23	2.60	2.24	0.86	0.93	593.22	587.64	0.15	1.18
84069	A	0.20	0.21	1.56	1.44	0.63	0.68	408.86	444.44	0.53	11.02
84071	1	6.45	4.62	34.71	21.97	3.36	6.86	721.07	525.68	72.64	1.20
84071	2	2.29	2.00	12.53	10.15	3.64	5.09	377.35	320.91	34.89	8.68
84071	3	4.28	3.27	24.20	16.65	4.44	6.66	621.86	443.14	58.50	1.20
84071	A	2.63	2.23	14.42	11.21	3.68	5.29	410.91	340.00	38.48	11.07
84072	1	1.03	1.31	6.83	7.71	0.68	0.74	875.23	885.01	2.74	1.18
84072	2	0.02	0.03	0.28	0.15	0.17	0.17	458.76	479.75	1.55	8.64
84072	3	0.03	0.02	0.33	0.14	0.03	0.03	663.60	647.54	1.05	1.20
84072	A	0.07	0.10	0.63	0.54	0.19	0.19	494.59	512.39	1.57	11.02
84073	1	4.43	4.26	61.16	58.73	4.18	4.17	711.77	686.39	6.24	1.18
84073	2	0.12	0.13	2.47	2.89	1.23	1.25	409.87	431.75	3.01	8.67
84073	3	0.71	0.83	9.03	7.49	1.80	1.81	623.49	592.39	1.07	1.17
84073	A	0.38	0.39	5.93	6.07	1.42	1.44	439.84	455.74	3.05	11.02
84074	1	4.11	3.04	53.18	36.36	8.73	7.32	763.90	606.18	21.91	1.20
84074	2	0.29	0.19	16.28	10.82	5.99	4.34	486.82	368.73	5.98	8.64
84074	3	0.65	0.47	16.50	10.92	5.85	4.76	659.23	479.46	0.64	1.18
84074	A	0.51	0.36	18.22	12.17	6.12	4.52	512.97	388.82	6.45	11.02
84076	1	14.08	13.62	217.35	195.51	2.44	2.05	722.49	653.31	56.60	1.16
84076	2	4.24	4.03	53.15	58.36	4.04	3.42	498.53	456.20	14.49	8.65
84076	3	6.12	6.69	105.31	95.12	2.89	3.37	554.53	572.73	5.91	1.20
84076	A	4.88	4.70	65.22	67.86	3.88	3.34	513.96	474.27	16.08	11.00

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84077	1	0.83	0.89	6.77	6.80	1.33	1.56	442.15	435.48	2.81	1.17
84077	2	0.04	0.03	3.24	3.17	0.12	0.12	235.64	248.02	0.75	8.65
84077	3	0.04	0.02	0.66	0.44	0.24	0.24	327.15	329.13	0.88	1.18
84077	A	0.08	0.07	3.24	3.17	0.19	0.20	252.50	263.19	0.87	11.00
84078	1	1.35	1.47	16.17	16.79	1.58	1.73	633.67	616.78	0.02	1.17
84078	2	0.05	0.05	1.52	2.05	0.24	0.23	323.25	357.64	0.51	8.63
84078	3	0.07	0.04	1.48	1.27	0.26	0.27	535.53	492.73	0.98	1.19
84078	A	0.12	0.12	2.27	2.75	0.31	0.31	353.85	380.25	0.51	10.99
84079	1	18.29	15.83	386.54	271.47	0.92	0.96	704.67	502.85	286.59	1.16
84079	2	1.67	1.01	88.08	52.66	1.65	0.92	673.70	351.55	19.72	8.59
84079	3	2.94	2.34	61.31	51.17	2.01	1.71	676.51	478.69	6.42	1.17
84079	A	2.60	1.86	101.49	63.78	1.64	0.98	675.47	368.01	32.48	10.93
84081	1	5.04	5.35	36.90	34.95	7.10	6.88	658.16	653.31	5.45	1.18
84081	2	2.07	2.10	14.75	13.29	6.44	5.54	400.34	384.22	1.28	8.64
84081	3	3.30	3.55	21.86	20.33	7.04	7.07	556.98	544.60	0.54	1.17
84081	A	2.31	2.36	16.38	14.89	6.51	5.71	424.33	409.04	1.44	10.99
84082	1	0.52	0.73	3.16	3.80	0.21	0.21	762.61	793.14	3.69	1.17
84082	2	0.02	0.02	0.29	0.16	0.10	0.10	414.55	426.49	0.71	8.64
84082	3	0.10	0.07	1.80	1.59	0.09	0.09	614.18	593.51	3.12	1.18
84082	A	0.05	0.06	0.55	0.44	0.11	0.11	446.18	456.78	1.03	10.99
84083	1	0.98	1.05	13.43	13.30	0.88	0.81	655.20	583.79	4.18	1.18
84083	2	0.03	0.03	2.32	2.61	0.18	0.16	332.82	345.71	0.62	8.63
84083	3	0.08	0.05	2.35	2.02	0.04	0.03	559.66	472.03	0.75	1.19
84083	A	0.09	0.09	2.89	3.12	0.20	0.18	365.09	366.75	0.81	11.00
84084	1	1.69	1.90	13.45	14.14	2.70	2.64	673.20	683.10	0.66	1.19
84084	2	0.02	0.02	0.31	0.24	0.64	0.54	367.67	388.32	0.66	8.63
84084	3	0.08	0.08	1.37	1.12	0.47	0.43	560.65	528.13	0.80	1.19
84084	A	0.11	0.12	1.07	1.02	0.74	0.65	396.86	413.29	0.67	11.00
84086	1	1.50	1.55	6.64	6.89	0.77	0.88	1009.42	1007.97	15.26	1.07
84086	2	0.03	0.03	1.17	1.13	0.07	0.07	503.47	469.96	2.14	8.56
84086	3	0.03	0.01	0.25	0.06	0.12	0.14	614.67	617.44	0.63	1.19
84086	A	0.10	0.10	1.36	1.33	0.10	0.11	535.43	505.90	2.66	10.82
84087	1	1.72	1.78	10.70	10.34	1.18	1.08	665.10	624.05	11.26	1.18
84087	2	0.03	0.02	0.74	0.62	0.35	0.31	350.55	371.50	1.30	8.65
84087	3	0.04	0.03	0.69	0.48	0.47	0.42	575.65	514.68	0.50	1.18
84087	A	0.12	0.11	1.26	1.11	0.40	0.35	382.21	394.33	1.76	11.01
84088	1	2.10	2.13	11.66	11.37	3.44	2.55	692.20	687.52	1.98	1.18
84088	2	0.10	0.11	1.56	1.70	1.24	0.42	382.31	420.79	1.20	8.63
84088	3	0.35	0.36	3.65	3.47	1.08	0.43	595.54	587.04	1.61	1.18
84088	A	0.22	0.23	2.23	2.32	1.35	0.53	413.00	446.05	1.27	11.00
84090	1	1.63	1.93	11.37	11.62	1.58	1.35	727.62	753.58	4.23	1.19
84090	2	0.02	0.02	0.65	0.53	0.26	0.26	435.30	441.95	0.50	8.69
84090	3	0.14	0.16	2.18	2.01	0.72	0.76	558.00	584.52	-0.07	1.20
84090	A	0.11	0.13	1.31	1.21	0.36	0.35	458.94	467.92	0.65	11.08

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84091	1	3.73	3.85	59.03	59.71	0.62	0.56	893.49	859.77	1.51	1.18
84091	2	0.05	0.07	2.55	2.45	0.82	0.69	481.64	484.44	0.95	8.61
84091	3	0.27	0.30	4.40	3.80	1.32	1.22	748.61	708.24	1.40	1.18
84091	A	0.26	0.28	5.61	5.52	0.84	0.72	521.32	519.31	1.01	10.98
84092	1	0.80	0.88	8.00	8.43	1.74	1.56	511.66	489.37	2.65	1.17
84092	2	0.01	0.02	0.11	0.06	0.93	0.84	262.28	298.65	1.27	8.65
84092	3	0.05	0.06	0.38	0.19	1.00	0.91	413.34	378.78	2.31	1.18
84092	A	0.05	0.07	0.54	0.50	0.97	0.88	285.43	313.93	1.41	11.00
84093	1	1.49	1.61	4.33	4.56	1.35	1.26	650.56	630.15	3.27	1.18
84093	2	0.05	0.04	1.33	1.30	0.64	0.56	306.70	344.45	1.19	8.61
84093	3	0.46	1.01	2.16	1.84	0.69	0.59	458.20	448.33	1.07	1.18
84093	A	0.15	0.19	1.54	1.50	0.68	0.60	334.93	366.35	1.29	10.97
84094	1	2.70	3.26	29.38	29.14	4.06	3.76	788.53	805.57	1.56	1.16
84094	2	0.13	0.12	8.49	7.20	2.37	1.75	496.61	481.35	2.08	8.64
84094	3	0.45	0.49	10.01	8.42	2.65	2.30	659.61	665.20	1.57	1.18
84094	A	0.28	0.30	9.66	8.40	2.47	1.89	522.59	510.49	2.02	10.98
84096	1	5.19	6.00	28.90	29.00	3.31	3.37	723.71	761.18	14.14	1.16
84096	2	0.57	0.58	8.29	8.20	1.82	1.52	480.22	461.38	4.40	8.67
84096	3	2.69	3.27	24.81	22.80	1.78	1.58	698.98	612.32	7.42	1.17
84096	A	0.95	1.04	10.44	10.25	1.89	1.62	507.19	486.87	5.10	11.01
84097	1	0.93	1.14	1.34	1.22	0.63	0.67	723.43	743.59	4.07	1.20
84097	2	0.01	0.02	0.23	0.12	0.07	0.06	408.18	408.34	0.45	8.64
84097	3	0.03	0.04	0.55	0.46	0.02	0.03	482.71	545.77	2.45	1.18
84097	A	0.06	0.08	0.31	0.20	0.09	0.09	429.70	435.30	0.78	11.02
84098	1	2.00	2.14	13.20	13.85	2.18	1.90	767.51	770.11	3.05	1.18
84098	2	0.05	0.04	0.87	0.62	0.31	0.27	439.63	456.43	0.34	8.64
84098	3	0.26	0.26	2.38	1.76	0.31	0.36	619.62	621.82	1.53	1.17
84098	A	0.16	0.16	1.61	1.38	0.41	0.36	468.78	483.86	0.56	10.99
84099	1	3.62	3.93	13.82	14.01	2.87	2.67	742.87	729.78	14.89	1.16
84099	2	0.11	0.11	1.16	1.04	0.25	0.22	341.81	383.52	2.76	8.59
84099	3	0.31	0.32	1.80	1.49	0.71	0.62	545.80	540.10	1.62	1.16
84099	A	0.30	0.32	1.85	1.74	0.42	0.38	376.14	411.83	3.30	10.91
84101	1	3.09	3.21	40.75	39.65	4.96	4.46	636.89	599.91	38.03	1.20
84101	2	0.43	0.41	26.39	22.57	2.41	1.98	353.81	360.17	9.07	8.69
84101	3	0.43	0.42	13.98	11.78	2.94	2.61	530.93	485.53	3.04	1.19
84101	A	0.56	0.55	26.29	22.72	2.58	2.16	380.55	381.24	10.17	11.07
84102	1	1.25	1.31	16.79	15.58	3.12	2.83	388.21	380.64	2.67	1.17
84102	2	0.11	0.12	6.72	6.69	0.53	0.46	234.09	240.12	0.56	8.65
84102	3	0.21	0.23	6.65	6.38	0.58	0.55	296.33	321.70	0.66	1.19
84102	A	0.18	0.19	7.23	7.13	0.67	0.59	246.24	252.93	0.68	11.00
84103	1	2.02	2.28	9.47	10.19	1.86	1.82	679.39	705.38	2.21	1.17
84103	2	0.05	0.05	0.52	0.41	0.47	0.39	399.77	398.24	0.33	8.65
84103	3	0.17	0.19	1.95	1.72	0.73	0.66	535.91	548.69	0.28	1.18
84103	A	0.16	0.17	1.08	1.00	0.56	0.48	423.43	424.34	0.42	11.01

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84104	1	2.04	2.29	10.81	11.01	2.87	2.66	746.19	753.50	3.72	1.19
84104	2	0.06	0.05	1.43	1.45	0.72	0.59	438.74	464.06	1.53	8.64
84104	3	0.28	0.27	4.86	4.50	1.01	0.86	671.97	633.61	0.92	1.19
84104	A	0.18	0.18	2.16	2.16	0.86	0.71	470.87	490.80	1.60	11.02
84105	1	3.12	3.18	23.16	22.03	2.38	2.11	485.44	431.15	4.88	1.18
84105	2	0.15	0.16	3.90	3.53	0.46	0.43	264.91	288.90	1.04	8.63
84105	3	0.28	0.28	2.21	1.62	0.90	0.77	411.39	353.26	0.86	1.18
84105	A	0.31	0.32	4.77	4.36	0.59	0.54	286.23	300.67	1.22	10.99
84107	1	2.44	2.86	9.78	9.97	2.59	2.39	765.51	757.31	8.85	1.19
84107	2	0.10	0.10	3.56	3.28	0.76	0.63	422.48	421.88	3.78	8.66
84107	3	0.46	0.48	6.10	5.48	0.87	0.83	629.22	597.25	2.04	1.19
84107	A	0.25	0.27	4.06	3.78	0.86	0.73	454.52	451.40	3.92	11.03
84108	1	3.34	2.66	30.20	21.67	4.96	4.11	620.02	494.13	11.57	1.15
84108	2	0.48	0.49	13.03	11.64	3.01	2.54	322.89	308.32	2.76	8.64
84108	3	1.21	1.09	16.60	12.62	3.58	2.98	498.31	399.39	-0.21	1.18
84108	A	0.68	0.64	14.14	12.21	3.15	2.65	349.93	323.96	3.00	10.97
84109	1	1.95	2.10	11.78	11.53	2.81	2.58	740.65	728.32	3.34	1.18
84109	2	0.05	0.05	1.29	1.21	0.75	0.62	437.03	448.84	1.06	8.62
84109	3	0.26	0.27	4.67	4.27	1.13	0.95	666.46	622.67	0.13	1.18
84109	A	0.16	0.17	2.07	1.96	0.88	0.75	468.47	475.23	1.11	10.98
84110	1	1.79	1.87	11.17	10.47	2.21	2.06	543.92	541.22	4.03	1.18
84110	2	0.06	0.06	4.80	4.64	0.52	0.48	325.82	330.77	9.31	8.65
84110	3	0.56	0.64	7.34	6.16	0.82	0.79	458.33	437.36	23.99	1.19
84110	A	0.19	0.19	5.31	5.04	0.63	0.58	346.26	349.00	10.05	11.02
84111	1	1.71	1.83	14.20	13.38	3.53	3.30	687.48	698.37	47.71	1.20
84111	2	0.07	0.06	1.76	1.57	0.91	0.76	421.53	438.99	1.78	8.74
84111	3	0.36	0.30	4.10	3.76	1.10	0.97	626.69	612.26	1.05	1.20
84111	A	0.18	0.17	2.57	2.33	1.06	0.91	449.39	464.32	4.11	11.14
84115	1	2.19	2.29	15.30	10.85	1.64	2.11	559.47	562.20	7.18	1.17
84115	2	0.09	0.08	7.30	5.53	0.49	0.59	342.64	343.38	7.87	8.64
84115	3	0.36	0.68	9.24	7.10	0.93	1.06	453.97	455.96	5.12	1.19
84115	A	0.22	0.23	7.84	5.92	0.58	0.70	361.49	362.39	7.64	11.00
84116	1	1.89	2.20	17.31	15.07	2.98	3.44	701.37	704.34	3.13	1.18
84116	2	0.09	0.06	1.91	1.49	0.63	0.74	443.02	443.91	1.80	8.65
84116	3	0.47	0.43	5.29	4.91	0.85	1.20	556.87	559.89	1.28	1.20
84116	A	0.21	0.20	2.94	2.43	0.77	0.91	464.24	465.33	1.83	11.03
84119	1	3.82	4.87	27.91	32.72	6.66	7.02	794.85	798.55	-2.48	1.17
84119	2	1.37	1.56	11.80	12.07	5.63	5.59	478.00	479.23	7.18	8.65
84119	3	2.43	3.05	20.83	24.16	5.44	6.19	632.55	636.02	-0.65	1.19
84119	A	1.57	1.83	13.25	13.96	5.67	5.70	504.90	506.36	6.14	11.00
84121	1	0.92	1.05	4.65	3.82	1.14	1.13	746.76	749.90	0.26	1.15
84121	2	0.01	0.02	0.25	0.17	0.01	0.02	424.21	425.12	0.76	8.60
84121	3	0.07	0.09	0.68	0.77	0.00	0.01	607.44	609.37	-0.02	1.17
84121	A	0.06	0.08	0.50	0.39	0.06	0.08	453.09	454.15	0.68	10.92

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84122	1	1.82	2.18	13.77	14.61	1.96	2.17	736.43	739.78	5.23	1.18
84122	2	0.04	0.04	0.51	0.42	0.24	0.22	442.77	443.67	1.68	8.62
84122	3	0.16	0.21	1.22	2.58	0.49	0.53	615.12	617.51	0.86	1.18
84122	A	0.14	0.17	1.25	1.31	0.35	0.34	469.83	470.91	1.81	10.98
84123	1	1.98	2.11	34.72	28.94	1.10	1.14	416.18	417.92	3.95	1.18
84123	2	0.78	0.82	26.81	26.05	1.00	1.03	251.14	251.75	3.52	8.67
84123	3	0.99	1.15	17.38	22.33	1.18	1.14	317.55	318.39	2.56	1.21
84123	A	0.85	0.91	26.57	25.94	1.02	1.04	264.32	264.99	3.47	11.06
84126	1	4.01	4.62	30.80	26.36	2.87	3.77	772.66	775.82	9.73	1.17
84126	2	0.55	0.57	8.76	10.63	1.48	1.64	480.96	482.23	2.59	8.67
84126	3	1.35	1.47	11.55	12.48	1.13	1.30	624.38	627.24	2.27	1.19
84126	A	0.78	0.84	10.08	11.56	1.53	1.73	505.74	507.19	2.93	11.02
84128	1	2.41	2.66	16.95	17.95	2.22	2.37	691.05	694.92	10.36	1.16
84128	2	0.11	0.10	1.92	2.25	0.29	0.31	376.60	377.44	4.28	8.63
84128	3	0.27	0.27	2.69	2.02	0.69	0.86	475.81	477.66	1.60	1.17
84128	A	0.24	0.24	2.74	3.03	0.41	0.45	399.38	400.40	4.40	10.95
84129	1	2.08	2.43	26.68	30.13	1.33	1.45	526.74	528.68	10.27	1.15
84129	2	0.11	0.13	1.86	1.82	0.32	0.37	351.80	352.44	2.21	8.56
84129	3	0.09	0.10	1.74	1.98	0.35	0.52	476.05	478.70	0.27	1.12
84129	A	0.21	0.24	3.12	3.27	0.38	0.43	368.91	369.72	2.49	10.83
84131	1	1.64	1.88	23.79	21.68	2.25	2.56	625.03	627.89	1.85	1.18
84131	2	0.05	0.05	3.34	2.78	0.44	0.46	340.32	340.89	2.33	8.59
84131	3	0.12	0.14	3.44	2.29	0.55	0.80	435.26	436.58	0.40	1.17
84131	A	0.14	0.15	4.41	3.73	0.55	0.59	361.60	362.30	2.17	10.94
84132	1	3.83	4.41	27.37	27.16	3.49	3.84	691.82	693.33	15.18	1.22
84132	2	0.70	0.74	10.30	9.14	2.24	2.36	441.05	441.81	3.57	8.73
84132	3	2.46	2.89	25.35	28.65	2.20	2.87	535.14	536.59	6.38	1.19
84132	A	0.99	1.08	12.24	11.43	2.30	2.47	460.73	461.58	4.38	11.15
84133	1	1.74	1.92	12.34	12.22	2.19	2.57	737.44	741.14	3.09	1.18
84133	2	0.05	0.03	0.36	0.25	0.20	0.23	410.83	411.59	0.69	8.62
84133	3	0.27	0.33	4.30	5.72	0.18	0.21	571.26	573.95	1.43	1.18
84133	A	0.15	0.15	1.25	1.25	0.30	0.35	438.83	439.81	0.86	10.99
84134	1	2.87	3.76	29.01	29.02	2.73	2.82	817.17	850.61	6.24	1.20
84134	2	0.08	0.07	7.83	6.74	1.56	1.49	493.87	487.13	1.89	8.70
84134	3	0.40	0.36	13.75	12.43	2.04	2.32	708.48	688.14	0.43	1.19
84134	A	0.25	0.28	9.34	8.29	1.66	1.61	525.48	519.88	2.02	11.09
84135	1	4.33	4.81	37.49	37.59	3.77	3.71	622.05	602.30	16.34	1.15
84135	2	0.17	0.18	2.79	3.19	0.42	0.39	327.25	368.51	1.37	8.60
84135	3	0.39	0.38	4.90	4.40	0.52	0.50	482.32	462.73	2.69	1.18
84135	A	0.40	0.43	4.70	5.02	0.59	0.57	352.89	386.86	2.22	10.93
84137	1	1.63	4.19	10.04	22.93	0.99	3.56	298.13	675.31	6.11	1.20
84137	2	0.28	0.77	3.50	8.89	0.53	2.27	159.78	444.00	4.55	8.73
84137	3	1.07	2.19	8.33	16.73	0.91	2.84	294.90	550.24	2.02	1.20
84137	A	0.40	1.04	4.17	10.16	0.58	2.37	176.30	463.33	4.46	11.13

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84140	1	1.00	1.19	6.47	6.66	0.51	0.50	847.47	850.53	3.39	1.19
84140	2	0.03	0.03	0.75	0.74	0.23	0.21	421.90	473.66	0.91	8.60
84140	3	0.03	0.03	0.30	0.15	0.02	0.02	653.78	647.27	-1.13	1.19
84140	A	0.08	0.09	1.02	1.01	0.23	0.21	460.13	505.35	0.90	10.99
84145	1	4.53	4.76	49.57	48.86	2.97	2.72	412.36	411.73	3.60	1.19
84145	2	0.85	0.86	12.27	11.15	2.34	2.00	266.72	264.00	1.16	8.66
84145	3	1.97	2.16	20.74	19.89	2.64	2.42	376.55	378.50	1.35	1.20
84145	A	1.12	1.15	14.79	13.71	2.39	2.07	281.88	279.58	1.30	11.05
84146	1	5.19	4.61	21.48	16.88	4.70	4.24	708.18	583.89	6.76	1.14
84146	2	1.15	0.87	12.03	9.26	1.78	1.45	422.89	357.36	10.20	8.62
84146	3	3.46	2.61	18.40	11.28	2.35	1.89	666.57	468.84	-1.96	1.17
84146	A	1.51	1.18	12.94	9.78	1.97	1.62	453.86	376.33	9.20	10.93
84148	1	13.31	7.24	57.86	27.15	9.74	4.25	2986.14	623.53	51.84	1.20
84148	2	0.83	0.65	7.28	5.19	4.17	3.17	402.84	410.74	47.58	8.67
84148	3	6.97	3.10	116.69	24.27	3.57	6.12	336.26	516.52	25.61	1.20
84148	A	1.91	1.16	17.53	7.67	4.42	3.43	533.70	429.21	46.28	11.07
84149	1	0.80	1.14	3.44	4.68	0.16	0.24	488.88	556.24	4.63	1.20
84149	2	0.02	0.02	0.59	0.53	0.07	0.08	271.66	323.19	0.71	8.68
84149	3	0.03	0.01	0.16	0.02	0.05	0.05	428.21	414.37	0.85	1.20
84149	A	0.07	0.08	0.71	0.71	0.07	0.09	293.88	341.68	0.92	11.07
84150	1	2.09	2.12	17.78	14.60	1.31	1.47	863.68	842.34	12.89	1.15
84150	2	0.06	0.06	4.08	4.11	0.33	0.31	477.44	478.36	4.15	8.61
84150	3	0.05	0.04	1.89	1.27	0.36	0.37	687.09	690.02	6.36	1.19
84150	A	0.16	0.16	4.60	4.44	0.38	0.37	511.06	511.43	4.74	10.95
84151	1	1.07	1.09	9.32	8.56	1.43	1.38	685.41	628.53	7.47	1.17
84151	2	0.03	0.04	1.48	3.15	0.15	0.15	340.11	377.71	1.34	8.67
84151	3	0.04	0.03	1.93	1.57	0.09	0.07	576.08	512.45	-0.97	1.18
84151	A	0.08	0.09	1.92	3.32	0.21	0.21	373.98	399.82	1.50	11.03
84153	1	1.46	1.71	10.13	10.20	1.00	0.89	854.42	864.09	32.37	1.15
84153	2	0.03	0.02	0.25	0.07	0.48	0.39	548.14	543.41	5.42	8.58
84153	3	0.17	0.17	1.44	1.20	0.23	0.19	694.98	693.49	6.72	1.16
84153	A	0.11	0.12	0.83	0.66	0.49	0.40	573.64	569.86	6.87	10.88
84154	1	36.04	24.65	385.29	252.57	4.90	4.21	1101.41	773.18	163.38	1.15
84154	2	22.30	11.10	167.55	104.83	6.96	4.69	935.44	553.38	80.53	8.44
84154	3	21.18	14.65	128.56	104.03	4.47	3.42	766.04	537.18	15.38	1.15
84154	A	23.02	12.04	177.32	112.41	6.65	4.58	932.19	563.62	80.35	10.74
84156	1	0.94	1.06	7.32	7.47	1.25	1.26	664.98	638.42	7.92	1.19
84156	2	0.07	0.06	5.06	4.73	0.19	0.17	327.45	370.29	1.69	8.66
84156	3	0.04	0.02	2.00	1.46	0.12	0.10	567.46	499.16	2.43	1.19
84156	A	0.11	0.11	4.96	4.64	0.24	0.22	361.58	393.14	2.07	11.05
84157	1	4.52	3.84	22.48	16.70	2.60	2.55	480.94	417.84	7.76	1.19
84157	2	0.27	0.25	5.57	4.98	0.72	0.67	286.72	285.45	2.45	8.66
84157	3	0.19	0.55	1.84	5.61	0.46	1.41	70.73	356.38	5.67	1.19
84157	A	0.49	0.46	6.19	5.64	0.80	0.82	281.97	297.23	2.95	11.04

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84160	1	1.16	1.34	4.13	4.48	0.46	0.51	715.35	647.40	1.29	1.18
84160	2	0.07	0.06	2.32	2.06	0.41	0.35	362.19	361.46	0.48	8.64
84160	3	0.05	0.04	0.62	0.40	0.18	0.15	562.52	449.32	1.93	1.18
84160	A	0.13	0.12	2.29	2.07	0.39	0.35	394.08	382.20	0.62	11.00
84161	1	3.50	3.70	7.71	7.74	0.81	1.03	847.26	850.38	18.97	1.15
84161	2	0.06	0.06	0.64	0.66	0.76	0.78	448.39	449.99	6.22	8.62
84161	3	0.07	0.08	0.44	0.10	0.52	0.62	583.50	585.81	1.30	1.21
84161	A	0.23	0.25	0.99	0.98	0.75	0.78	478.11	479.84	6.52	10.99
84162	1	4.29	3.64	153.51	129.37	2.88	2.60	713.69	653.94	15.11	1.18
84162	2	0.46	0.30	22.28	19.31	1.26	0.69	721.88	401.99	27.92	8.58
84162	3	0.39	0.33	4.32	4.14	1.18	0.96	577.64	516.93	2.82	1.17
84162	A	0.65	0.47	27.86	23.98	1.34	0.81	711.57	422.92	25.54	10.93
84164	1	2.46	2.61	17.69	18.20	1.95	1.98	696.78	710.32	7.83	1.20
84164	2	0.05	0.05	0.49	0.39	0.16	0.16	376.62	428.71	0.99	8.72
84164	3	0.17	0.16	2.71	2.34	0.35	0.34	595.32	582.72	-0.59	1.22
84164	A	0.18	0.19	1.54	1.46	0.27	0.26	408.60	454.16	1.23	11.15
84165	1	7.62	6.94	32.92	27.26	5.42	4.93	542.84	479.72	30.51	1.17
84165	2	3.15	3.08	12.76	12.17	4.66	4.34	301.38	299.36	19.93	8.59
84165	3	5.89	4.70	15.87	12.44	5.37	4.86	440.77	374.54	3.96	1.18
84165	A	3.57	3.39	14.02	12.96	4.75	4.40	323.41	313.81	19.37	10.94
84166	1	3.31	3.44	19.72	19.11	2.97	2.96	695.81	693.40	2.08	1.15
84166	2	0.16	0.13	7.20	6.45	1.22	1.11	405.86	411.80	0.37	8.63
84166	3	0.67	0.69	7.08	6.23	1.71	1.70	567.18	543.06	3.13	1.18
84166	A	0.36	0.34	7.82	7.07	1.35	1.24	431.62	435.04	0.65	10.96
84168	1	1.77	2.07	15.42	14.06	1.80	2.01	738.23	740.83	2.11	1.20
84168	2	0.03	0.02	1.34	1.21	0.68	0.67	417.32	418.73	0.21	8.69
84168	3	0.12	0.24	1.90	2.55	1.01	1.17	582.46	584.72	-1.03	1.19
84168	A	0.12	0.14	2.11	1.97	0.76	0.78	445.32	446.85	0.23	11.08
84169	1	2.35	2.69	20.01	17.76	2.26	3.04	696.15	698.60	0.67	1.17
84169	2	0.11	0.09	5.17	3.94	1.04	1.17	401.34	402.66	0.14	8.64
84169	3	0.57	0.69	6.50	6.08	1.02	1.44	522.52	524.54	-1.04	1.18
84169	A	0.26	0.27	6.02	4.80	1.10	1.28	424.72	426.15	0.09	10.98
84171	1	29.32	4.16	196.69	22.67	12.97	2.46	2314.63	413.44	44.50	1.14
84171	2	1.29	0.99	19.86	14.54	1.48	1.30	341.43	266.39	42.99	8.60
84171	3	2.22	1.42	23.84	12.33	2.00	1.44	495.09	317.61	10.22	1.19
84171	A	2.77	1.18	29.06	14.79	2.09	1.37	451.70	277.37	40.79	10.93
84172	1	1.96	4.33	6.71	22.34	0.16	2.43	86.29	686.25	27.09	1.20
84172	2	0.29	0.22	6.59	4.66	0.83	0.87	490.58	404.58	13.58	8.65
84172	3	0.53	0.48	8.86	6.59	0.65	0.65	539.56	539.31	2.26	1.18
84172	A	0.39	0.45	6.75	5.72	0.78	0.93	472.75	428.61	13.51	11.03
84173	1	5.14	5.88	15.96	16.33	2.54	2.65	615.91	644.76	16.77	1.18
84173	2	0.16	0.14	4.68	4.46	1.07	1.02	333.19	350.11	0.75	8.57
84173	3	0.55	0.60	6.27	6.02	1.23	1.22	472.36	512.46	-1.95	1.19
84173	A	0.45	0.47	5.38	5.18	1.16	1.12	357.56	376.71	1.39	10.94

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84174	1	4.18	4.71	7.34	7.34	1.49	1.37	882.04	827.64	4.33	1.22
84174	2	0.12	0.10	1.80	1.27	1.55	1.28	498.61	498.86	4.15	8.68
84174	3	0.46	0.46	2.74	2.08	1.47	1.34	782.93	724.27	-0.79	1.21
84174	A	0.36	0.37	2.16	1.65	1.54	1.29	538.76	532.00	3.81	11.11
84175	1	6.07	6.29	33.70	33.67	2.91	2.64	730.00	701.51	20.52	1.19
84175	2	0.90	0.84	5.69	5.24	1.94	1.59	434.37	421.83	2.91	8.60
84175	3	2.89	2.74	21.83	20.05	2.74	2.51	594.52	566.51	0.82	1.18
84175	A	1.31	1.26	8.27	7.75	2.05	1.71	460.86	446.42	3.69	10.97
84177	1	5.13	5.34	33.65	32.11	6.88	7.07	629.00	666.30	5.31	1.17
84177	2	2.06	2.07	14.02	13.48	5.75	5.38	372.86	383.39	1.00	8.64
84177	3	3.33	3.59	21.98	21.63	6.18	6.58	510.40	535.89	1.20	1.19
84177	A	2.31	2.35	15.58	15.00	5.84	5.55	395.52	408.46	1.24	11.00
84178	1	2.07	2.20	12.36	12.57	2.93	2.85	650.21	654.94	8.73	1.18
84178	2	0.10	0.10	2.30	2.02	0.49	0.45	335.72	374.23	0.77	8.63
84178	3	0.38	0.41	4.33	3.55	1.05	1.02	510.39	492.40	0.00	1.16
84178	A	0.22	0.23	2.96	2.67	0.65	0.61	363.72	396.68	1.13	10.96
84179	1	2.32	2.38	20.13	18.41	3.10	2.87	861.92	824.73	2.21	1.20
84179	2	0.36	0.36	6.58	5.97	1.45	1.15	473.35	467.44	1.86	8.69
84179	3	0.64	0.63	8.22	6.76	2.00	1.68	703.93	647.54	2.61	1.20
84179	A	0.48	0.49	7.40	6.67	1.57	1.28	509.54	498.51	1.93	11.09
84180	1	5.18	5.61	19.27	17.76	4.44	4.04	708.39	705.50	25.90	1.16
84180	2	0.98	0.97	9.25	8.11	2.17	1.83	432.86	439.59	8.96	8.56
84180	3	2.79	2.73	16.47	15.03	2.93	2.64	637.35	608.94	1.44	1.19
84180	A	1.32	1.33	10.27	9.09	2.34	2.00	461.23	465.02	9.30	10.91
84182	1	4.19	4.40	63.05	65.17	3.96	3.54	847.85	861.45	25.31	1.17
84182	2	0.35	0.20	16.00	8.46	2.38	1.20	909.37	529.87	11.48	8.63
84182	3	0.98	0.98	23.14	18.22	2.97	2.35	869.17	760.09	9.45	1.18
84182	A	0.71	0.47	20.37	12.04	2.55	1.40	900.91	562.68	12.05	10.98
84183	1	1.95	1.94	12.08	9.77	1.39	1.32	572.61	525.15	1.53	1.17
84183	2	0.04	0.04	1.09	0.95	0.50	0.54	267.31	315.09	1.03	8.67
84183	3	0.27	0.18	4.52	3.00	0.74	0.73	472.88	408.83	-1.78	1.20
84183	A	0.15	0.14	1.89	1.54	0.57	0.59	297.19	332.35	0.86	11.04
84184	1	1.40	1.37	11.79	11.46	0.35	0.31	574.79	524.72	3.81	1.18
84184	2	0.10	0.09	8.55	7.30	0.10	0.08	274.22	301.42	1.91	8.65
84184	3	0.03	0.02	0.83	0.56	0.38	0.29	481.15	414.72	0.45	1.19
84184	A	0.16	0.15	8.19	7.05	0.13	0.11	303.94	320.72	1.90	11.01
84185	1	2.54	2.70	14.05	13.46	2.55	2.20	497.80	439.96	6.16	1.18
84185	2	0.21	0.21	4.87	4.44	0.65	0.57	278.19	297.19	3.36	8.62
84185	3	0.46	0.48	4.30	3.56	1.08	0.84	429.55	369.98	0.02	1.16
84185	A	0.34	0.36	5.31	4.85	0.78	0.68	299.76	309.48	3.28	10.95
84187	1	5.09	5.34	32.64	31.23	7.57	7.57	621.04	659.96	5.14	1.20
84187	2	2.06	2.13	15.98	15.26	6.99	6.37	387.53	405.57	1.47	8.66
84187	3	3.28	3.51	20.42	20.00	7.85	7.97	544.32	574.61	1.34	1.19
84187	A	2.30	2.39	17.16	16.43	7.08	6.54	410.54	430.52	1.66	11.05

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84188	1	16.17	12.95	207.51	163.52	2.28	2.11	912.05	780.49	326.39	1.24
84188	2	6.16	4.13	79.78	59.19	2.73	2.09	603.20	473.71	25.64	8.69
84188	3	5.82	5.08	80.61	67.12	2.42	2.29	693.17	611.57	9.66	1.21
84188	A	6.68	4.67	86.71	65.36	2.69	2.10	626.10	499.83	40.68	11.14
84189	1	3.30	33.15	252.83	202.14	5.25	4.34	674.38	569.42	662.61	1.12
84189	2	2.09	16.60	243.52	192.37	1.75	1.33	401.33	325.32	261.48	8.56
84189	3	3.52	31.09	373.03	272.68	2.48	1.67	611.33	465.91	345.43	1.18
84189	A	2.25	18.42	252.90	198.38	1.98	1.51	429.35	347.12	287.15	10.86
84191	1	2.73	2.47	16.38	15.75	2.32	2.30	642.93	631.40	4.37	1.17
84191	2	0.18	0.08	1.46	1.34	0.24	0.24	322.72	357.76	2.17	8.65
84191	3	0.35	0.27	2.82	1.94	0.71	0.70	507.09	477.44	1.11	1.17
84191	A	0.32	0.22	2.32	2.11	0.38	0.38	351.62	379.88	2.21	10.99
84192	1	0.73	0.76	5.56	6.09	0.54	0.52	836.69	869.81	0.30	1.16
84192	2	0.06	0.03	0.91	0.88	0.18	0.17	424.89	471.13	5.90	8.66
84192	3	0.06	0.02	0.22	-0.01	0.24	0.23	638.84	639.64	0.02	1.18
84192	A	0.09	0.07	1.10	1.09	0.21	0.19	460.46	502.92	5.21	11.00
84193	1	0.81	1.33	9.78	9.16	1.82	1.90	725.25	739.98	8.90	1.19
84193	2	0.05	0.04	3.18	2.63	0.48	0.48	373.27	407.31	5.88	8.67
84193	3	0.04	0.02	3.18	2.51	0.60	0.50	569.65	545.96	2.45	1.19
84193	A	0.09	0.10	3.52	2.97	0.56	0.56	405.09	434.16	5.80	11.05
84195	1	0.85	1.90	11.98	11.96	2.64	2.42	692.47	702.22	1.97	1.17
84195	2	0.03	0.02	0.22	0.13	0.39	0.29	377.03	423.12	0.37	8.64
84195	3	0.18	0.24	4.32	4.01	0.37	0.29	590.98	579.11	1.47	1.18
84195	A	0.09	0.13	1.10	1.00	0.51	0.40	407.91	448.15	0.53	10.99
84196	1	2.03	5.90	60.99	61.44	5.26	4.86	745.97	735.04	1.31	1.25
84196	2	1.14	1.77	13.07	12.31	3.27	2.81	456.01	450.06	3.96	8.82
84196	3	1.65	2.71	14.78	12.94	5.06	4.31	652.97	593.84	64.48	1.24
84196	A	1.23	2.06	15.75	14.98	3.50	3.03	485.34	475.38	8.06	11.31
84197	1	3.31	4.00	22.30	22.23	4.48	4.49	672.00	694.42	3.62	1.20
84197	2	0.12	0.10	5.35	5.43	1.88	1.85	328.23	394.44	0.73	8.64
84197	3	0.60	0.70	9.22	8.38	3.00	2.99	526.75	544.68	1.47	1.19
84197	A	0.32	0.35	6.51	6.51	2.09	2.07	360.07	420.63	0.93	11.04
84198	1	3.68	3.97	25.70	25.09	1.70	1.76	543.37	561.76	9.10	1.20
84198	2	0.18	0.18	2.39	3.50	0.49	0.50	260.98	325.91	1.78	8.65
84198	3	0.81	0.72	9.00	7.61	0.75	0.72	453.39	449.92	1.05	1.19
84198	A	0.41	0.42	4.07	4.92	0.58	0.58	289.04	346.82	2.12	11.04
84200	1	4.10	4.62	34.35	34.84	1.62	1.66	549.39	566.46	15.32	1.20
84200	2	0.21	0.20	3.49	4.46	0.62	0.61	267.90	335.91	3.15	8.67
84200	3	0.91	0.89	8.59	7.50	0.62	0.60	445.17	445.80	2.35	1.21
84200	A	0.46	0.48	5.45	6.26	0.67	0.66	294.91	355.58	3.73	11.07
84201	1	11.30	11.09	102.78	84.49	4.56	4.26	659.12	617.00	28.36	1.21
84201	2	5.54	5.24	66.27	74.52	3.99	3.46	413.78	397.26	1.04	8.68
84201	3	7.14	6.77	132.85	120.34	3.22	3.08	509.68	471.29	147.72	1.19
84201	A	5.95	5.66	72.76	78.19	3.97	3.47	433.29	413.92	12.54	11.08

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84205	1	1.36	1.58	8.20	8.17	2.25	2.07	910.18	946.31	16.02	1.18
84205	2	0.08	0.06	4.26	3.27	0.70	0.48	582.16	571.36	8.61	8.69
84205	3	0.12	0.11	3.09	2.77	0.64	0.50	746.47	727.23	1.25	1.21
84205	A	0.15	0.14	4.38	3.49	0.77	0.56	610.43	601.46	8.48	11.08
84206	1	5.82	5.73	83.59	83.84	2.46	1.97	845.60	849.19	3.07	1.19
84206	2	0.52	0.45	9.40	8.52	0.80	0.57	546.39	546.54	1.24	8.58
84206	3	1.63	1.60	18.18	16.70	0.93	0.72	753.98	728.67	1.51	1.17
84206	A	0.87	0.80	13.89	13.02	0.89	0.65	576.25	574.84	1.36	10.94
84208	1	7.23	8.00	60.46	59.79	7.41	6.36	760.92	774.31	209.50	1.19
84208	2	1.84	1.75	28.50	25.74	4.49	3.71	487.97	472.51	42.76	8.65
84208	3	3.45	3.75	41.75	39.20	5.10	4.50	645.47	652.55	86.98	1.18
84208	A	2.23	2.21	31.08	28.44	4.68	3.90	513.00	500.58	54.47	11.03
84209	1	1.44	2.17	25.25	21.04	6.85	6.32	714.79	632.47	3.69	1.19
84209	2	0.42	0.42	10.38	12.00	4.12	3.46	367.44	382.70	2.15	8.67
84209	3	0.58	0.52	15.82	10.00	6.23	5.76	599.24	513.09	-1.74	1.19
84209	A	0.48	0.52	11.52	12.33	4.41	3.77	401.39	404.63	1.96	11.05
84210	1	1.63	5.40	51.25	47.47	5.53	4.92	562.56	524.53	101.68	1.13
84210	2	0.61	0.50	9.73	8.97	3.09	2.74	318.78	321.49	7.26	8.60
84210	3	1.20	1.58	20.38	18.45	3.48	3.06	460.84	429.59	8.66	1.15
84210	A	0.70	0.82	12.51	11.52	3.24	2.87	340.46	338.87	12.06	10.88
84211	1	1.70	3.01	40.01	37.27	2.16	1.94	715.82	682.37	14.21	1.17
84211	2	0.32	0.24	9.25	7.77	1.12	0.95	406.82	393.29	34.91	8.54
84211	3	1.14	1.36	14.04	12.06	1.71	1.52	534.52	514.69	7.31	1.17
84211	A	0.45	0.46	11.18	9.59	1.22	1.04	431.67	416.66	31.94	10.89
84213	1	1.95	3.58	49.63	45.96	3.21	2.78	881.42	864.66	6.10	1.19
84213	2	0.56	0.39	31.33	22.41	1.10	0.84	529.62	521.13	6.33	8.64
84213	3	1.17	0.96	19.53	16.38	1.69	1.37	774.44	701.66	2.54	1.19
84213	A	0.68	0.59	31.47	23.22	1.25	0.97	564.77	551.42	6.06	11.02
84214	1	0.91	2.06	8.57	8.47	3.43	2.67	864.38	766.77	21.30	1.14
84214	2	0.00	0.04	1.69	1.51	0.68	0.50	437.47	461.30	6.26	8.66
84214	3	0.02	0.17	2.55	2.43	1.27	0.83	783.76	670.25	2.19	1.19
84214	A	0.05	0.15	2.09	1.92	0.85	0.63	479.04	490.94	6.73	10.99
84215	1	1.22	2.72	14.28	12.92	4.98	3.99	686.42	669.62	3.11	1.19
84215	2	0.04	0.05	1.90	1.50	0.65	0.47	414.67	427.58	3.98	8.64
84215	3	0.00	0.03	0.73	0.51	0.09	0.09	585.37	569.96	1.56	1.20
84215	A	0.10	0.19	2.46	2.03	0.84	0.63	440.71	450.10	3.77	11.03
84218	1	1.30	5.43	7.36	27.19	4.48	7.27	214.91	668.85	4.59	1.18
84218	2	0.41	2.26	2.92	13.58	1.59	6.14	78.14	398.89	0.61	8.61
84218	3	0.51	3.80	2.97	20.05	1.84	8.01	95.97	580.22	1.40	1.18
84218	A	0.46	2.53	3.15	14.72	1.75	6.33	86.17	425.28	0.87	10.96
84229	1	0.08	2.29	1.87	23.21	1.48	3.70	1164.31	821.41	4.32	1.20
84229	2	0.05	0.03	1.61	0.19	0.74	0.31	812.09	522.05	7.07	8.66
84229	3	.	0.08	.	0.24	.	0.30	.	608.60	2.82	1.22
84229	A	.	0.15	.	1.39	.	0.48	.	543.76	6.63	11.08

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84242	1	1.25	3.00	13.89	13.97	2.83	2.15	701.16	714.87	14.47	1.21
84242	2	0.08	0.09	0.54	0.52	0.45	0.30	395.38	425.98	1.38	8.66
84242	3	0.17	0.21	2.39	2.12	1.01	0.73	602.11	582.96	-0.33	1.20
84242	A	0.15	0.25	1.37	1.34	0.62	0.43	425.81	452.08	1.95	11.07
84244	1	1.38	5.09	56.83	51.87	3.05	3.67	492.42	459.64	8.11	1.19
84244	2	0.91	1.29	22.17	18.95	3.04	2.89	353.73	314.27	24.58	8.68
84244	3	1.14	2.29	12.71	11.65	3.79	3.64	426.71	403.22	1.35	1.20
84244	A	0.95	1.56	23.32	20.15	3.09	2.98	365.96	327.95	22.12	11.07
84245	1	1.30	3.08	23.55	19.90	4.38	3.31	620.61	521.54	5.74	1.18
84245	2	1.11	2.89	27.67	18.42	3.28	1.96	572.90	370.19	54.41	8.66
84245	3	1.27	3.91	16.58	12.14	4.73	3.41	596.02	435.62	6.40	1.22
84245	A	1.13	2.97	26.69	18.05	3.44	2.13	576.97	382.58	48.53	11.05
84246	1	1.59	5.07	18.43	18.40	2.64	2.50	710.55	679.23	38.30	1.17
84246	2	0.53	0.50	13.35	10.76	1.62	1.11	483.74	472.71	23.71	8.59
84246	3	0.45	0.39	2.19	1.98	1.84	1.50	628.29	621.74	9.94	1.20
84246	A	0.58	0.73	12.84	10.54	1.68	1.21	505.35	493.75	23.50	10.96
84250	1	1.62	7.94	99.65	65.43	3.71	3.81	532.42	464.26	14.89	1.14
84250	2	0.87	2.29	24.99	22.35	2.66	2.52	323.93	303.67	10.32	8.52
84250	3	1.36	7.34	95.48	61.82	2.22	2.32	433.99	371.83	4.17	1.17
84250	A	0.95	2.93	33.67	27.26	2.68	2.57	342.18	316.52	10.13	10.83
84252	1	0.70	1.95	2.90	3.12	0.47	0.39	789.09	804.96	8.28	1.20
84252	2	0.09	0.06	1.26	1.15	0.08	0.03	433.07	437.71	0.43	8.65
84252	3	0.07	0.07	1.06	0.94	0.11	0.08	586.89	596.28	-1.09	1.19
84252	A	0.12	0.16	1.33	1.24	0.11	0.06	462.30	467.93	0.74	11.05
84253	1	1.06	2.15	27.37	25.79	2.63	2.25	731.56	720.26	5.87	1.16
84253	2	0.08	0.08	4.54	3.76	0.97	0.82	424.73	419.55	1.23	8.64
84253	3	0.25	0.43	7.11	6.11	1.43	1.27	590.09	557.80	1.45	1.18
84253	A	0.14	0.21	5.88	5.04	1.08	0.92	451.60	444.32	1.48	10.98
84256	1	1.75	4.70	89.04	71.54	2.74	2.55	734.37	704.72	48.11	1.25
84256	2	0.11	0.13	4.65	4.40	1.47	1.36	398.69	417.71	4.18	8.72
84256	3	0.57	0.88	16.15	16.62	1.61	1.50	619.42	594.94	0.80	1.21
84256	A	0.23	0.42	9.99	8.86	1.54	1.44	432.05	445.46	6.31	11.17
84257	1	1.60	4.34	38.53	33.19	3.48	3.25	767.76	678.37	-1.33	1.19
84257	2	0.27	0.26	4.01	3.65	2.37	2.00	441.52	442.26	4.49	8.66
84257	3	1.18	1.43	13.71	10.98	4.32	3.76	698.08	581.00	3.64	1.18
84257	A	0.40	0.55	6.47	5.69	2.56	2.19	476.04	464.02	4.13	11.03
84258	1	2.30	2.66	8.42	8.19	4.04	3.38	787.33	831.13	6.93	1.20
84258	2	0.12	0.13	3.40	3.68	1.90	1.35	425.75	452.16	5.05	8.65
84258	3	0.48	0.55	7.69	8.33	2.27	1.82	624.83	620.66	0.59	1.18
84258	A	0.26	0.29	3.96	4.23	2.04	1.49	458.31	483.61	4.84	11.03
84259	1	6.03	6.17	39.86	38.12	6.95	7.74	647.38	684.21	7.58	1.18
84259	2	2.21	2.17	13.84	13.47	5.82	5.95	380.46	392.90	0.80	8.65
84259	3	3.42	3.54	21.27	21.39	6.24	7.12	497.51	520.83	2.00	1.18
84259	A	2.49	2.47	15.68	15.28	5.91	6.12	402.19	416.70	1.23	11.01

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84261	1	2.07	3.62	12.68	13.44	3.89	4.07	327.84	354.63	20.40	1.15
84261	2	0.72	1.00	11.09	11.67	1.72	1.79	138.23	152.96	9.14	8.71
84261	3	1.82	2.37	10.06	10.61	3.20	3.25	237.16	256.62	6.91	1.17
84261	A	0.87	1.22	11.10	11.69	1.93	2.00	154.42	170.06	9.55	11.03
84262	1	1.65	4.60	29.44	26.27	2.95	2.79	779.85	792.37	7.33	1.19
84262	2	0.18	0.17	7.79	6.97	1.69	1.56	431.32	457.31	3.30	8.63
84262	3	0.58	0.65	13.54	11.95	2.28	0.81	640.75	627.91	1.23	1.19
84262	A	0.28	0.44	9.32	8.32	1.80	1.57	463.88	486.53	3.36	11.01
84263	1	1.64	4.07	59.16	56.59	7.49	7.53	602.51	596.23	60.10	1.18
84263	2	0.81	1.05	55.04	44.09	2.25	2.18	365.17	378.89	18.28	8.63
84263	3	0.83	1.01	14.96	14.04	4.43	3.97	503.76	466.64	7.37	1.23
84263	A	0.86	1.20	52.41	42.59	2.68	2.58	387.27	396.37	19.66	11.04
84265	1	2.82	24.96	226.45	200.03	2.31	2.58	836.88	771.55	86.02	1.19
84265	2	0.68	10.01	39.25	129.88	0.53	1.12	243.91	486.25	166.92	8.61
84265	3	2.59	14.68	168.03	118.87	2.09	1.59	907.52	697.45	33.45	1.19
84265	A	0.92	11.11	57.84	132.78	0.73	1.23	320.45	515.74	153.49	10.99
84266	1	0.63	1.65	3.23	3.42	0.82	0.93	604.08	571.90	5.55	1.22
84266	2	0.02	0.00	0.25	0.14	0.08	0.08	290.47	339.48	2.13	8.74
84266	3	0.01	-0.01	0.12	-0.07	0.19	0.23	487.99	457.67	1.08	1.21
84266	A	0.05	0.09	0.40	0.30	0.13	0.14	320.85	359.95	2.24	11.17
84267	1	1.41	3.01	35.85	32.69	3.09	2.86	702.52	605.76	9.53	1.18
84267	2	0.14	0.15	4.13	3.94	1.12	1.05	332.97	352.50	3.28	8.63
84267	3	0.69	0.71	6.71	5.93	1.89	1.71	560.70	489.06	2.70	1.18
84267	A	0.24	0.34	5.95	5.56	1.28	1.19	367.62	374.95	3.57	10.98
84268	1	2.28	5.75	26.78	25.97	4.83	4.45	949.25	931.87	23.54	1.21
84268	2	0.31	0.32	1.23	0.71	4.49	3.69	599.79	554.46	27.18	8.75
84268	3	1.52	2.06	12.29	10.75	5.75	4.91	771.92	729.75	8.25	1.20
84268	A	0.50	0.72	3.31	2.72	4.59	3.81	629.69	586.28	25.69	11.16
84270	1	2.25	4.45	26.13	25.23	3.95	3.88	824.57	841.95	14.32	1.21
84270	2	0.59	0.69	11.29	10.19	1.76	1.58	474.39	463.99	26.61	8.75
84270	3	1.02	1.45	12.65	11.97	1.96	1.84	647.65	665.12	5.05	1.21
84270	A	0.71	0.94	12.16	11.10	1.89	1.71	504.60	497.67	24.48	11.17
84271	1	2.42	9.51	63.71	51.86	8.65	7.78	863.85	807.49	57.37	1.21
84271	2	0.75	0.77	10.56	9.52	9.18	7.45	516.64	482.49	2.81	8.69
84271	3	1.28	1.58	10.84	10.48	9.58	8.19	637.21	588.64	3.35	0.97
84271	A	0.86	1.28	13.26	11.80	9.17	7.51	540.77	505.67	5.70	10.87
84272	1	1.12	1.15	9.15	9.72	0.77	0.90	742.88	707.71	6.58	1.19
84272	2	0.02	0.02	0.55	0.67	0.04	0.03	375.97	399.27	1.66	8.67
84272	3	0.01	0.01	0.98	0.71	0.09	0.07	582.88	527.90	1.89	1.20
84272	A	0.08	0.08	1.03	1.14	0.08	0.08	409.29	424.22	1.93	11.06
84274	1	4.10	3.69	19.27	17.13	3.14	2.83	567.10	485.33	32.42	1.16
84274	2	0.32	0.31	7.87	7.03	2.04	1.80	263.23	292.17	4.25	8.63
84274	3	0.71	0.60	4.79	3.30	2.61	2.07	457.56	348.10	2.00	1.19
84274	A	0.53	0.50	8.24	7.29	2.14	1.87	292.09	305.88	5.53	10.98

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84276	1	2.64	2.75	13.37	11.83	2.73	2.54	852.63	810.33	13.54	1.19
84276	2	0.04	0.04	1.53	1.50	1.29	1.03	434.43	432.97	1.29	8.64
84276	3	0.49	0.46	9.03	7.85	1.43	1.24	692.53	617.44	1.37	1.21
84276	A	0.20	0.21	2.67	2.48	1.38	1.12	474.20	465.55	1.93	11.04
84277	1	28.38	23.77	407.51	182.70	1.42	1.53	689.78	383.25	250.94	1.17
84277	2	18.34	13.03	288.70	145.32	1.21	1.00	490.81	257.17	266.07	8.66
84277	3	28.16	26.65	441.69	175.14	0.74	0.88	582.32	285.13	200.66	1.15
84277	A	19.51	14.49	304.96	149.22	1.19	1.02	507.06	265.49	260.93	10.98
84278	1	5.62	5.59	88.74	84.34	1.88	1.87	618.90	616.14	40.24	1.17
84278	2	0.24	0.19	5.78	5.47	0.71	0.59	423.10	405.79	10.44	8.61
84278	3	1.66	1.72	23.87	23.07	0.36	0.26	528.23	518.67	3.22	1.18
84278	A	0.61	0.57	11.29	10.73	0.74	0.63	440.40	424.36	11.48	10.96
84279	1	0.60	1.25	4.13	4.42	0.85	1.01	768.47	798.12	3.32	1.17
84279	2	0.06	0.05	5.93	4.27	0.16	0.12	407.43	435.95	4.95	8.62
84279	3	0.08	0.08	0.74	0.51	0.23	0.23	660.58	621.07	3.30	1.17
84279	A	0.09	0.11	5.48	4.02	0.20	0.18	443.29	467.22	4.75	10.97
84280	1	1.08	1.11	16.29	13.17	1.63	1.63	469.86	446.57	3.07	1.23
84280	2	0.02	0.02	2.57	2.34	0.65	0.60	283.98	299.70	0.90	8.80
84280	3	0.03	0.04	3.12	2.73	0.60	0.55	447.92	397.93	1.27	1.24
84280	A	0.08	0.08	3.34	2.93	0.70	0.65	305.53	314.33	1.04	11.26
84281	1	4.87	4.59	77.37	72.81	5.27	4.79	1029.78	976.74	9.19	1.20
84281	2	0.19	0.19	8.03	6.77	1.36	1.02	679.69	621.70	10.37	8.64
84281	3	0.88	0.89	22.92	19.90	1.29	1.02	897.81	816.85	3.80	1.18
84281	A	0.49	0.47	12.69	11.12	1.56	1.22	713.07	653.66	9.86	11.02
84283	1	27.02	23.07	328.09	306.28	1.72	1.79	582.77	540.81	180.44	1.19
84283	2	6.15	4.07	88.20	58.54	2.50	1.64	684.68	425.12	69.56	8.62
84283	3	14.31	14.11	175.73	162.76	1.76	1.62	451.80	406.45	28.77	1.18
84283	A	7.79	5.75	106.71	78.62	2.41	1.65	663.41	429.87	72.54	11.00
84284	1	5.41	5.28	58.24	48.77	7.17	6.73	832.99	773.46	20.33	1.21
84284	2	1.01	0.85	36.54	24.98	5.67	4.49	523.02	489.24	80.00	8.63
84284	3	4.13	4.02	77.01	69.34	5.09	4.11	763.71	666.60	15.13	1.20
84284	A	1.46	1.31	40.52	29.33	5.71	4.58	556.28	516.67	72.32	11.04
84285	1	0.84	1.09	6.34	7.59	1.03	1.26	483.66	524.68	6.17	1.19
84285	2	0.08	0.08	6.26	5.92	0.07	0.07	272.92	318.32	1.87	8.67
84285	3	0.01	0.02	1.50	1.48	0.10	0.08	440.31	447.43	0.00	1.19
84285	A	0.12	0.13	5.94	5.70	0.12	0.14	295.44	337.93	1.96	11.05
84286	1	1.87	2.64	28.38	27.59	5.61	4.98	847.06	829.06	4.49	1.19
84286	2	0.05	0.04	2.59	2.37	2.15	1.71	507.13	489.64	2.66	8.69
84286	3	0.96	0.84	25.50	24.85	8.09	6.71	856.70	862.91	4.03	1.13
84286	A	0.20	0.23	5.43	5.15	2.72	2.21	547.65	531.74	2.84	11.02
84287	1	7.18	4.72	47.15	30.33	3.68	3.06	902.88	721.90	19.71	1.15
84287	2	0.84	0.38	9.48	5.79	2.65	1.46	706.77	463.90	51.96	8.60
84287	3	1.42	0.97	20.27	13.80	2.21	1.60	773.39	633.25	21.98	1.15
84287	A	1.20	0.64	12.12	7.57	2.67	1.55	721.21	488.37	48.31	10.90

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84289	1	10.71	10.32	119.84	102.83	8.70	8.24	835.49	758.39	51.78	1.17
84289	2	4.78	4.12	75.01	64.36	5.35	4.73	484.38	428.56	181.78	8.63
84289	3	13.24	11.68	109.94	103.79	5.94	5.34	656.18	581.92	15.34	1.18
84289	A	5.66	4.96	79.72	69.04	5.56	4.96	514.29	456.03	163.71	10.98
84290	1	5.07	5.20	35.33	29.58	7.43	6.95	677.75	639.47	8.01	1.18
84290	2	2.10	2.15	15.05	13.11	6.97	6.03	411.65	380.71	4.01	8.62
84290	3	3.43	3.48	23.70	19.62	7.82	7.20	586.50	533.41	36.51	1.20
84290	A	2.34	2.40	16.70	14.42	7.05	6.16	437.55	404.72	6.47	10.99
84291	1	1.91	2.67	9.53	12.50	1.97	2.26	352.67	405.31	7.31	1.21
84291	2	0.11	0.13	3.11	3.87	0.26	0.25	209.42	271.19	5.40	8.69
84291	3	0.26	0.32	4.49	4.21	0.32	0.26	376.37	352.31	4.23	1.20
84291	A	0.21	0.28	3.54	4.34	0.35	0.36	228.46	283.81	5.42	11.09
84292	1	2.34	2.41	13.67	12.74	4.04	3.77	720.64	666.03	61.79	1.18
84292	2	0.17	0.15	10.35	7.55	0.75	0.57	402.94	389.18	9.14	8.61
84292	3	0.30	0.30	4.26	3.32	1.21	0.97	593.72	511.81	1.62	1.18
84292	A	0.29	0.28	10.10	7.53	0.95	0.76	432.66	411.99	11.35	10.98
84293	1	6.78	5.76	48.47	39.34	3.26	2.81	747.61	569.08	9.20	1.17
84293	2	0.83	0.73	9.46	8.04	3.10	2.51	448.38	390.55	6.51	8.64
84293	3	2.24	2.36	16.20	14.13	3.18	2.77	621.65	513.87	1745.37	1.20
84293	A	1.23	1.10	11.93	10.07	3.11	2.55	475.82	408.26	127.11	11.01
84295	1	23.48	17.61	141.60	115.18	3.09	2.71	862.29	747.36	461.01	1.14
84295	2	7.02	3.15	42.77	38.38	3.23	2.44	530.01	471.13	36.48	8.69
84295	3	10.59	5.04	88.90	75.21	4.88	3.68	767.70	668.67	40.62	1.19
84295	A	8.09	4.00	50.87	44.74	3.34	2.54	562.93	498.48	57.90	11.02
84296	1	0.53	0.88	6.53	7.75	0.24	0.35	372.42	429.11	6.83	1.19
84296	2	0.05	0.05	3.52	3.50	0.06	0.06	239.83	262.57	2.95	8.65
84296	3	0.04	0.04	3.01	2.59	0.11	0.10	401.51	336.58	1.23	1.17
84296	A	0.08	0.09	3.64	3.66	0.07	0.08	257.72	276.26	3.03	11.01
84297	1	2.57	2.67	20.28	19.09	1.78	.	700.39	611.41	3.71	1.17
84297	2	0.24	0.23	8.73	8.16	0.81	.	374.92	366.09	1.74	8.52
84297	3	0.30	0.25	6.51	4.95	0.73	.	645.36	494.39	-0.02	1.19
84297	A	0.37	0.36	9.17	8.50	0.86	.	410.81	387.82	1.72	10.89
84298	1	2.25	2.44	36.45	36.88	2.63	2.34	1243.05	1114.30	4.59	1.20
84298	2	0.13	0.09	8.82	5.91	1.06	0.76	872.42	656.36	30.19	8.63
84298	3	0.39	0.38	7.30	6.16	1.19	1.06	995.82	869.06	2.01	1.18
84298	A	0.26	0.23	10.17	7.55	1.15	0.86	900.28	694.88	26.93	11.00
84300	1	2.15	2.33	16.73	16.33	1.37	1.48	754.34	740.48	6.59	1.17
84300	2	0.05	0.05	0.97	0.95	0.36	0.32	425.99	431.93	0.88	8.63
84300	3	0.22	0.22	3.72	3.03	0.44	0.45	631.31	603.95	2.31	1.18
84300	A	0.17	0.18	1.96	1.88	0.42	0.39	456.95	459.54	1.27	10.98
84301	1	16.60	17.11	62.68	55.07	4.35	4.17	872.61	721.46	12.74	1.19
84301	2	4.16	2.21	59.65	30.19	2.52	1.39	825.85	440.80	9.88	8.70
84301	3	8.65	7.54	43.42	34.88	3.72	3.21	738.13	612.17	5.16	1.19
84301	A	5.12	3.35	58.69	31.80	2.70	1.66	822.24	467.13	9.71	11.08

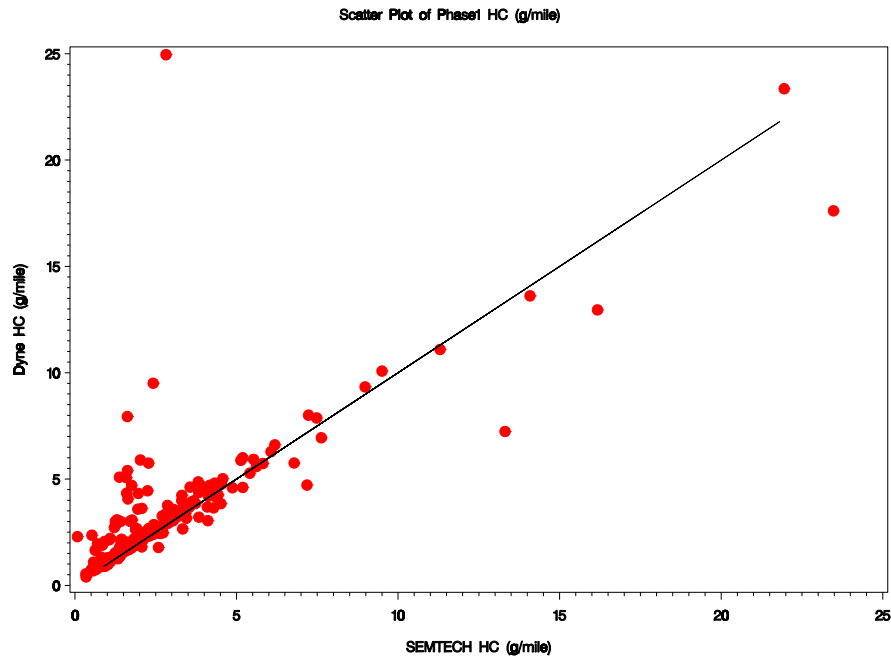
RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84302	1	2.83	3.16	29.50	29.18	3.05	3.04	851.06	837.37	7.12	1.21
84302	2	0.30	0.31	4.95	4.23	2.10	1.81	547.73	507.43	7.07	8.70
84302	3	1.21	1.40	13.20	12.79	2.17	2.11	693.69	659.69	6.63	1.21
84302	A	0.50	0.53	6.81	6.14	2.16	1.90	573.72	535.35	7.04	11.12
84303	1	0.94	1.12	8.04	9.05	1.62	1.64	784.78	798.50	3.01	1.19
84303	2	0.01	0.02	0.49	0.30	0.25	0.16	567.73	489.65	2.42	8.67
84303	3	0.01	0.01	0.41	0.22	0.27	0.24	609.59	639.17	3.01	1.20
84303	A	0.06	0.07	0.88	0.75	0.32	0.25	581.99	516.09	2.49	11.06
84304	1	0.51	0.74	3.27	3.72	0.61	0.84	519.16	509.48	2.94	1.19
84304	2	0.01	0.01	1.08	0.97	0.12	0.10	284.98	312.94	2.18	8.67
84304	3	0.01	0.01	0.74	0.40	0.22	0.19	494.55	387.60	0.67	1.19
84304	A	0.04	0.05	1.17	1.07	0.15	0.15	311.60	328.26	2.12	11.05
84305	1	1.82	1.99	24.12	25.45	2.42	2.40	660.45	662.09	1.77	1.19
84305	2	0.02	0.02	0.41	0.34	0.48	0.42	375.56	385.42	1.27	8.69
84305	3	0.10	0.10	1.48	1.19	0.38	0.38	565.05	530.70	0.78	1.19
84305	A	0.12	0.13	1.72	1.70	0.58	0.52	403.45	409.78	1.27	11.07
84307	1	2.10	2.44	20.61	19.89	3.76	3.80	633.22	612.02	6.63	1.16
84307	2	0.09	0.09	2.86	2.72	0.40	0.40	355.73	371.59	1.39	8.62
84307	3	0.12	0.12	3.42	2.76	0.87	0.74	574.48	501.98	1.48	1.19
84307	A	0.20	0.22	3.81	3.60	0.60	0.60	385.04	392.86	1.67	10.97
84308	1	2.19	2.52	20.08	20.29	4.18	4.07	659.07	648.44	6.90	1.17
84308	2	0.12	0.12	7.51	7.20	2.21	1.91	378.97	387.23	3.96	8.62
84308	3	0.38	0.39	10.76	9.57	2.32	2.08	554.52	511.68	1.84	1.21
84308	A	0.25	0.27	8.39	8.04	2.32	2.04	405.69	409.38	3.96	11.00
84309	1	26.00	21.81	561.82	442.72	1.41	1.61	984.45	769.78	134.20	1.18
84309	2	11.10	8.32	214.80	155.37	2.51	2.17	671.10	478.69	40.23	8.66
84309	3	12.34	10.99	242.08	196.63	2.31	2.20	719.75	603.34	16.98	1.20
84309	A	11.96	9.21	234.68	173.08	2.44	2.14	690.72	502.38	43.46	11.04
84310	1	0.98	1.03	12.34	11.35	1.17	1.11	852.70	821.22	13.31	1.20
84310	2	0.04	0.02	0.41	0.22	0.25	0.17	622.50	503.75	5.87	8.67
84310	3	0.08	0.07	0.61	0.49	0.21	0.17	647.53	650.77	1.11	1.21
84310	A	0.09	0.07	1.05	0.82	0.30	0.22	636.26	530.59	5.92	11.08
84311	1	2.99	3.42	49.55	50.02	2.55	2.89	448.13	479.10	26.82	1.19
84311	2	0.21	0.23	9.45	9.77	1.03	1.02	255.31	316.91	8.64	8.64
84311	3	0.23	0.24	4.07	3.75	1.28	1.24	428.94	402.02	2.04	1.18
84311	A	0.36	0.39	11.17	11.45	1.13	1.13	277.29	331.19	9.14	11.01
84312	1	1.68	1.93	18.87	19.24	3.92	3.76	640.53	633.92	1.32	1.19
84312	2	0.11	0.10	7.03	6.87	2.20	1.88	374.23	381.34	0.86	8.62
84312	3	0.38	0.40	11.48	10.35	2.63	2.16	576.32	523.90	2.58	1.19
84312	A	0.21	0.22	7.96	7.76	2.32	2.00	402.17	404.40	1.00	11.01
84314	1	4.37	4.15	56.55	45.70	4.22	3.78	616.98	534.70	11.49	1.19
84314	2	0.54	0.47	21.46	17.17	2.82	2.31	355.99	343.10	3.46	8.60
84314	3	1.21	0.88	30.99	19.39	2.65	2.21	590.57	452.79	1.19	1.20
84314	A	0.79	0.69	23.95	18.81	2.88	2.38	385.99	360.73	3.72	10.99

RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84315	1	5.53	5.93	22.57	19.73	4.59	4.15	604.79	555.30	105.79	1.14
84315	2	0.53	0.62	5.49	5.34	1.96	1.71	330.68	350.33	56.11	8.58
84315	3	1.85	2.02	16.70	14.49	3.70	3.22	516.00	476.53	86.61	1.17
84315	A	0.88	0.99	7.13	6.70	2.21	1.93	357.28	369.35	60.71	10.90
84316	1	4.58	5.02	24.36	21.46	3.26	2.87	587.59	534.01	52.72	1.18
84316	2	0.58	0.59	8.21	7.22	0.74	0.62	340.56	328.44	51.09	8.58
84316	3	1.19	1.15	8.12	6.43	1.37	1.01	543.90	448.47	27.97	1.19
84316	A	0.83	0.86	9.04	7.90	0.92	0.76	367.52	347.47	49.57	10.95
84318	1	1.42	2.10	7.52	9.19	1.89	2.28	414.14	494.57	6.64	1.20
84318	2	0.14	0.18	2.59	3.47	0.89	1.01	245.28	323.60	3.48	8.63
84318	3	0.22	0.27	4.13	4.31	1.04	1.05	390.71	419.10	1.77	1.20
84318	A	0.21	0.28	2.95	3.83	0.96	1.08	264.34	339.20	3.53	11.03
84319	1	2.14	2.22	15.31	13.32	3.43	3.47	680.09	621.45	12.30	1.16
84319	2	0.08	0.08	2.09	1.85	0.47	0.44	365.81	367.45	3.92	8.63
84319	3	0.38	0.36	5.40	3.97	1.14	0.94	604.62	475.46	0.31	1.19
84319	A	0.21	0.21	2.99	2.58	0.66	0.62	398.40	387.87	4.10	10.99
84321	1	2.53	2.74	15.16	13.81	4.12	4.09	754.62	740.64	3.06	1.18
84321	2	0.06	0.05	0.34	0.25	0.29	0.26	401.93	402.30	1.39	8.66
84321	3	0.15	0.16	0.84	0.51	0.48	0.53	601.76	560.62	0.40	1.18
84321	A	0.19	0.20	1.14	0.97	0.50	0.48	433.83	430.66	1.41	11.02
84322	1	2.14	2.26	18.44	16.08	2.43	2.21	532.31	469.70	7.78	1.20
84322	2	0.20	0.18	8.16	7.02	1.40	1.19	346.28	298.07	10.49	8.76
84322	3	0.27	0.26	7.75	6.40	2.07	1.75	484.08	387.04	4.70	1.19
84322	A	0.30	0.30	8.67	7.44	1.50	1.28	365.19	313.03	9.96	11.15
84324	1	2.48	2.51	23.49	22.08	2.52	2.51	705.06	652.23	7.69	1.17
84324	2	0.12	0.11	4.70	4.02	0.33	0.34	372.09	381.81	3.01	8.63
84324	3	0.27	0.29	3.21	2.71	0.66	0.62	603.50	499.23	0.73	1.18
84324	A	0.25	0.25	5.57	4.86	0.46	0.47	405.25	403.80	3.10	10.99
84325	1	3.31	4.24	6.55	6.66	2.43	2.67	601.86	644.62	14.00	1.20
84325	2	0.21	0.18	1.75	1.78	0.30	0.27	377.28	380.26	2.49	8.64
84325	3	0.34	0.42	3.46	3.33	0.49	0.53	481.26	524.24	2.13	1.18
84325	A	0.38	0.41	2.12	2.14	0.42	0.41	396.19	404.01	3.06	11.02
84327	1	1.59	1.65	12.58	12.83	1.55	1.50	760.85	747.09	2.39	1.19
84327	2	0.04	0.03	1.61	1.26	0.21	0.17	413.89	412.13	0.49	8.63
84327	3	0.13	0.15	1.39	1.14	0.56	0.47	604.59	585.98	0.29	1.18
84327	A	0.12	0.12	2.17	1.85	0.31	0.26	445.01	441.46	0.57	11.00
84328	1	2.81	2.92	15.16	14.08	4.37	4.10	767.11	750.80	2.59	1.18
84328	2	0.06	0.05	0.34	0.22	0.44	0.25	397.17	396.20	0.38	8.62
84328	3	0.17	0.19	0.84	0.36	0.95	0.55	586.04	549.71	-0.47	1.19
84328	A	0.21	0.21	1.14	0.94	0.68	0.47	429.30	425.13	0.44	10.99
84329	1	2.29	2.32	19.95	18.23	2.09	1.86	833.24	764.60	-1.21	1.17
84329	2	0.11	0.08	2.70	1.39	0.30	0.14	685.50	479.97	12.06	8.65
84329	3	0.20	0.20	1.22	0.51	0.97	0.72	710.83	639.13	2.07	1.20
84329	A	0.23	0.20	3.49	2.19	0.44	0.27	694.82	505.63	10.69	11.02

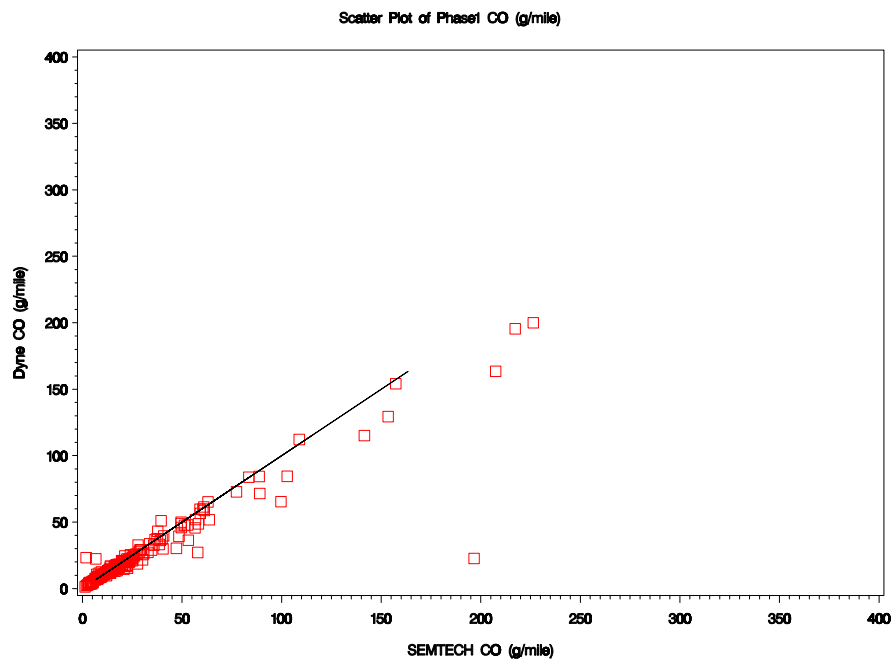
RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84355	1	0.65	0.94	7.25	10.70	1.71	1.90	628.39	731.92	2.21	1.23
84355	2	0.02	0.02	0.54	0.49	0.16	0.14	392.33	425.20	1.00	8.75
84355	3	0.03	0.04	0.76	0.74	0.17	0.16	533.20	550.15	1.48	1.22
84355	A	0.05	0.07	0.92	1.05	0.25	0.23	414.86	450.20	1.10	11.21
84356	1	1.91	2.27	21.33	24.56	4.15	4.36	641.45	686.57	7.63	1.22
84356	2	0.06	0.06	3.80	3.90	1.15	1.16	326.86	341.59	3.85	8.76
84356	3	0.17	0.17	5.48	5.17	1.63	1.60	501.60	490.41	0.86	1.21
84356	A	0.17	0.19	4.85	5.07	1.34	1.36	355.85	370.06	3.84	11.19
84357	1	1.76	1.76	20.91	20.24	2.09	2.09	536.58	504.72	5.97	1.20
84357	2	0.72	0.67	44.99	47.99	0.39	0.41	278.80	284.72	8.28	8.69
84357	3	3.35	5.38	15.37	13.80	1.40	1.38	416.54	379.05	5.39	1.22
84357	A	0.96	1.06	41.62	44.14	0.55	0.56	302.17	302.85	7.96	11.12
84359	1	2.59	1.78	22.57	15.36	2.31	2.29	760.69	507.45	5.13	1.24
84359	2	0.09	0.10	2.58	2.48	0.96	0.97	389.94	322.90	5.69	8.79
84359	3	0.38	0.29	4.03	1.94	2.07	1.85	580.64	395.92	-0.30	1.23
84359	A	0.24	0.20	3.75	3.13	1.11	1.10	422.94	337.80	5.24	11.26
84360	1	5.36	5.44	32.75	31.28	5.75	7.86	683.84	658.38	6.38	1.20
84360	2	2.17	2.05	14.00	12.91	4.64	6.24	398.71	381.41	0.63	8.74
84360	3	3.68	3.52	23.58	20.96	5.97	7.98	592.59	538.64	1.42	1.22
84360	A	2.44	2.33	15.65	14.43	4.79	6.45	427.20	406.81	0.98	11.17

Plots of Dynamometer Measurements vs. SEMTECH Measurements

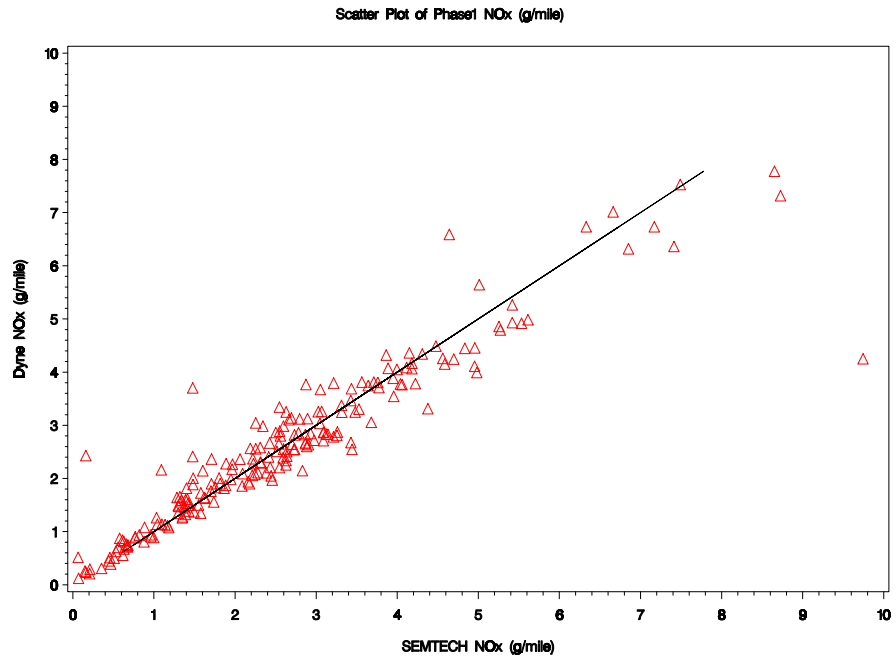
In the following plots of emissions by test phase, the symbols and colors used vary. Phase 1 emissions are depicted in red, phase 2 emissions in green, and phase 3 emissions in brown. HC, CO, NO_x, and CO₂ are depicted using dots, squares, triangles, and circle-crosses, respectively. Note that the 1:1 line depicted is for reference purposes; it is not a regression line.



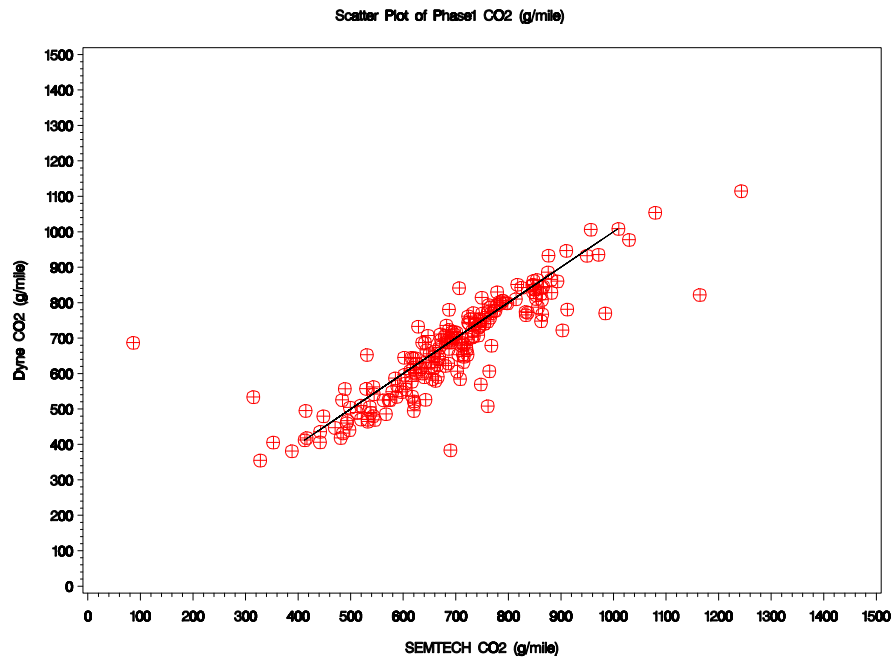
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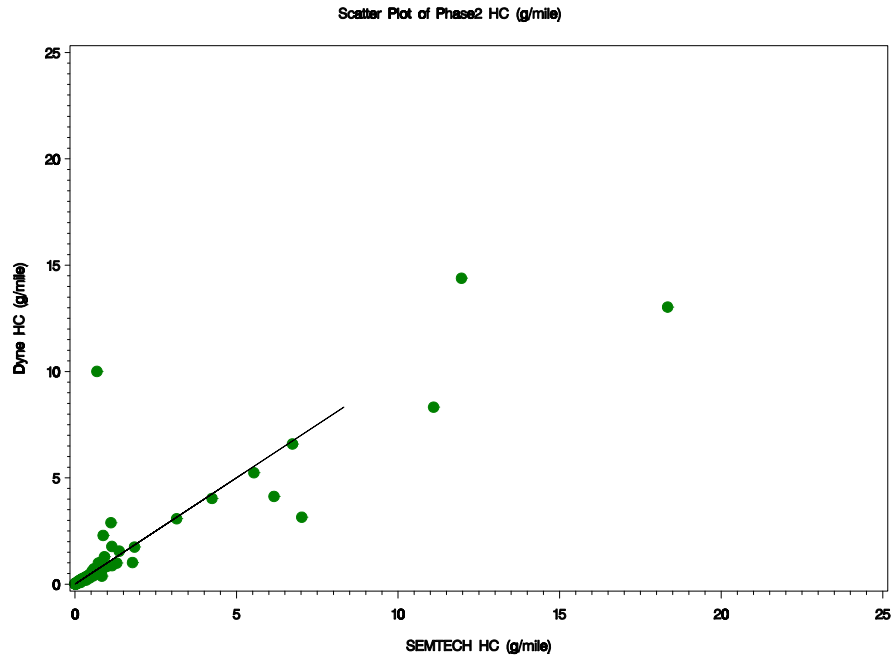
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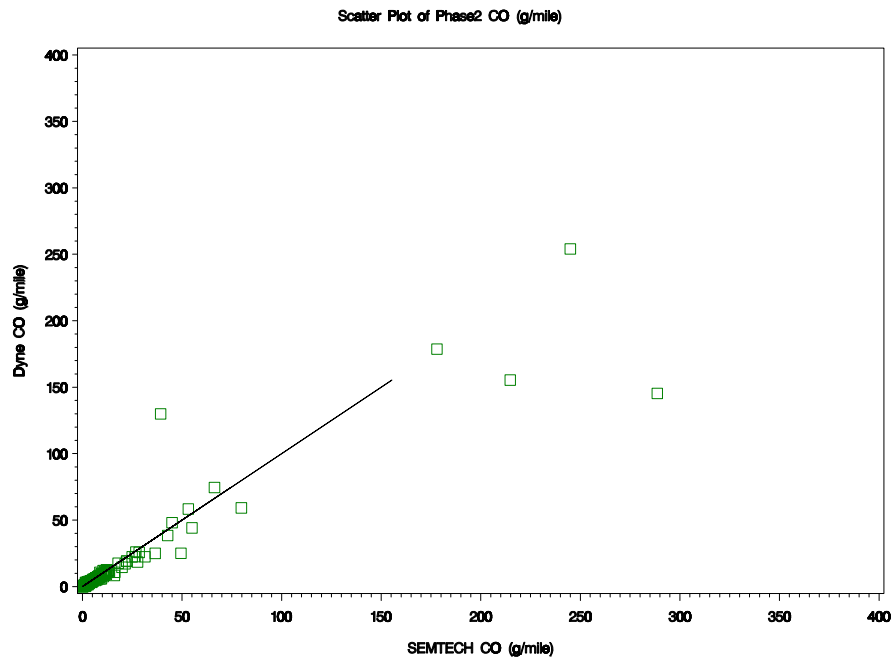
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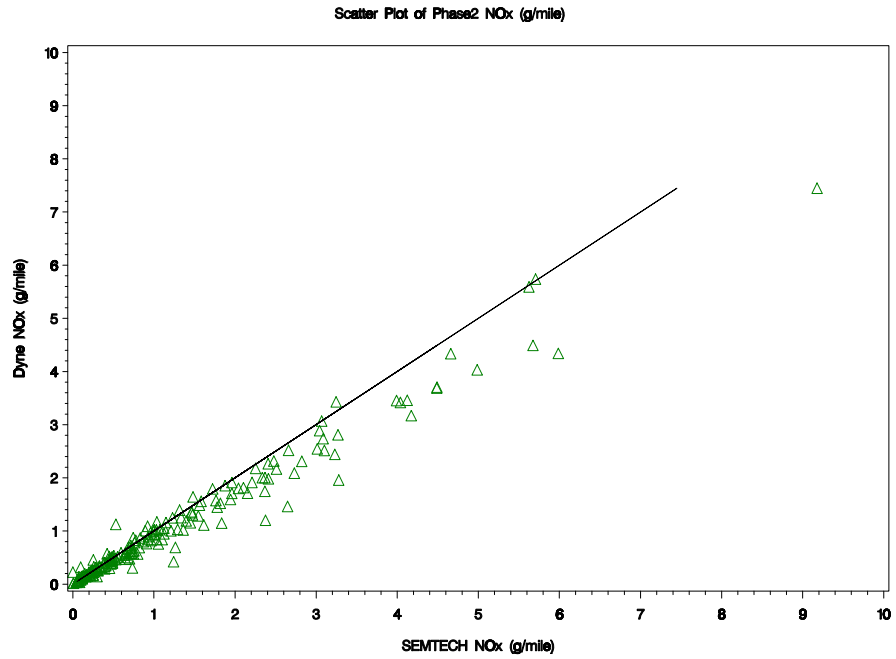
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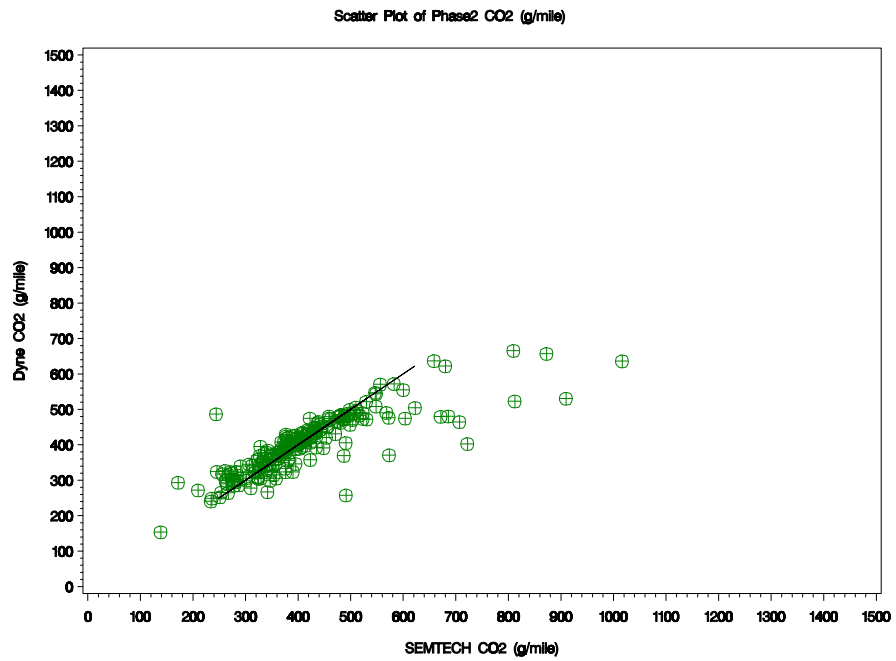
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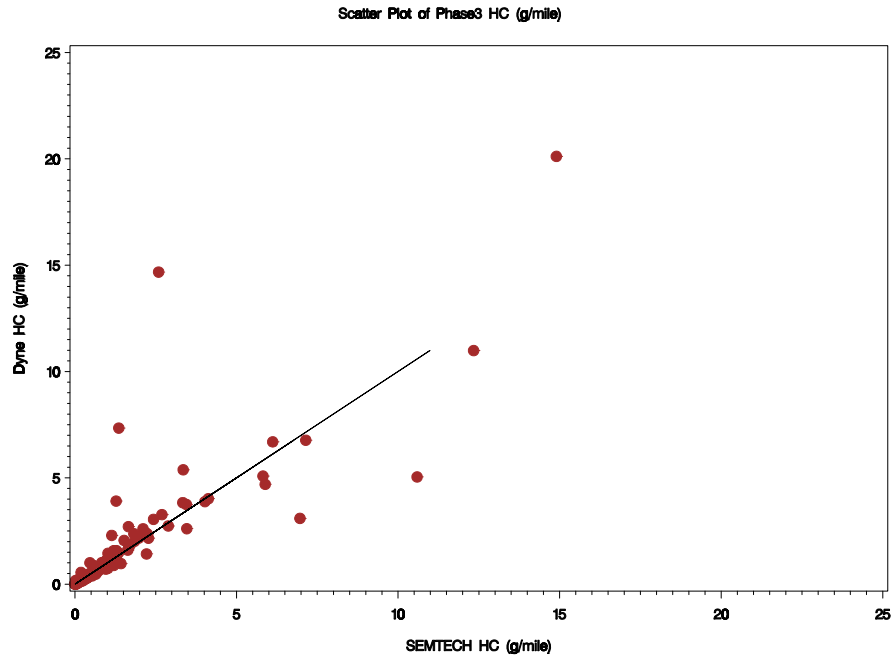
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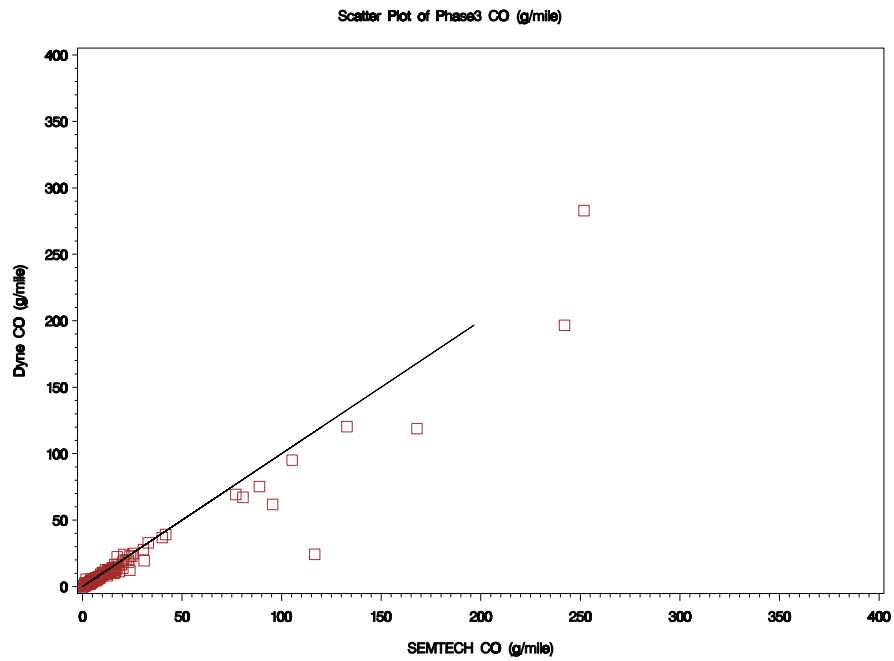
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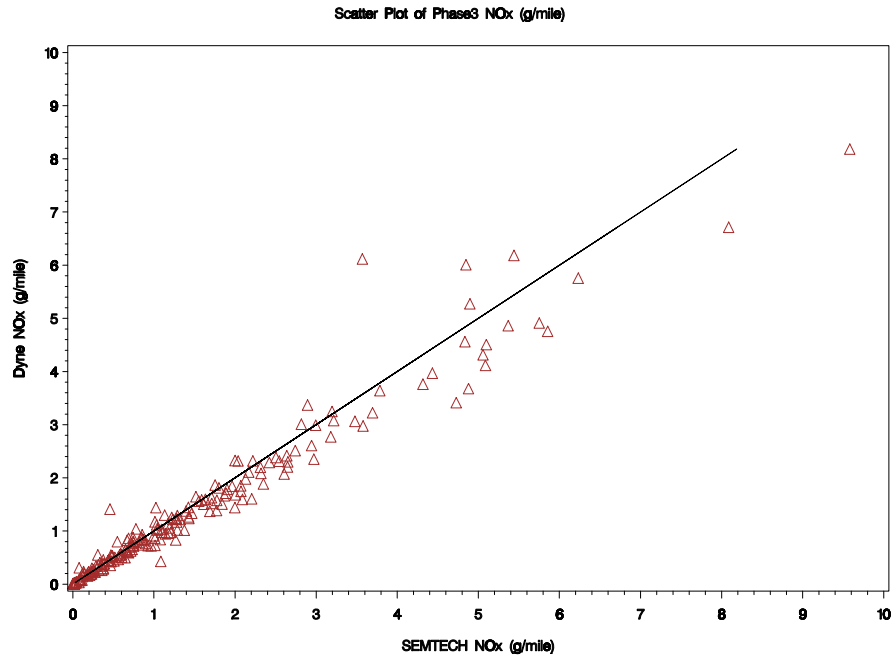
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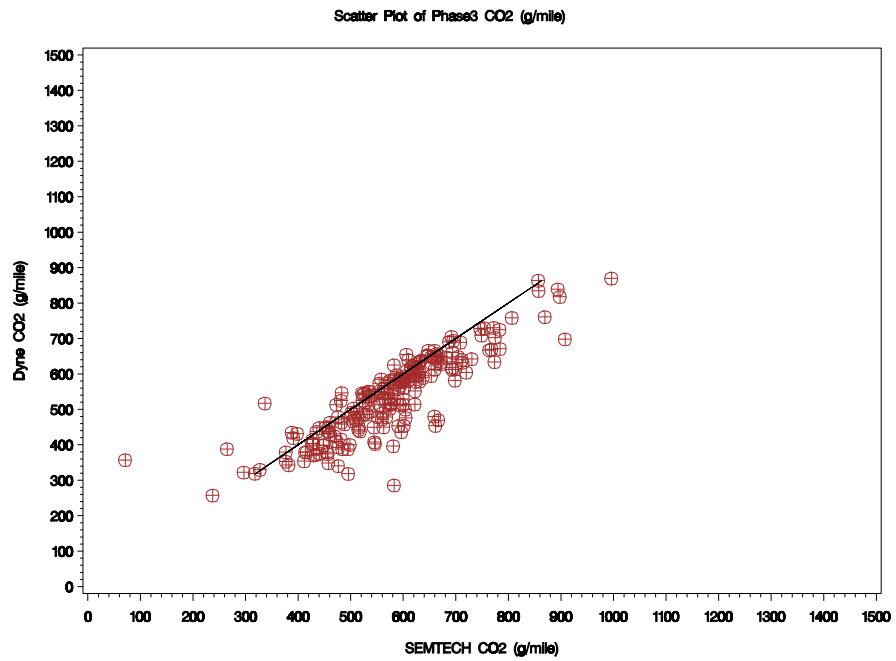
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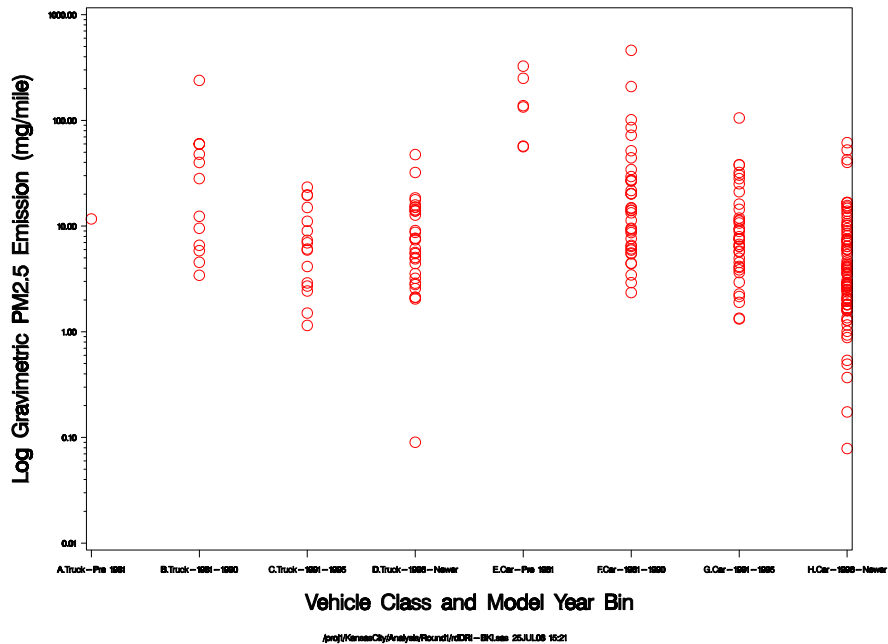
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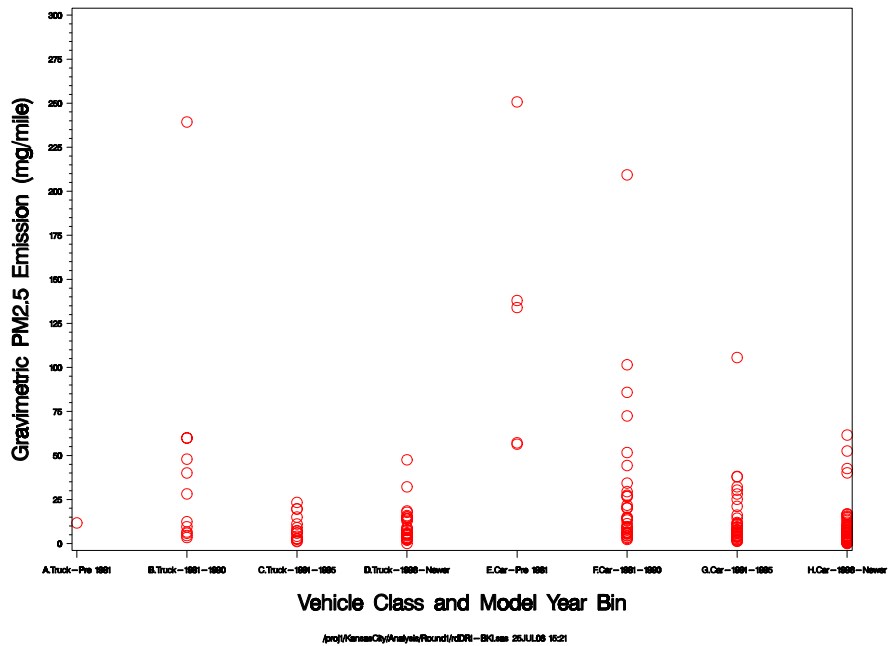
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Plots of Dynamometer Measurements and PM_{2.5} Measured by Gravimetric Mass-DRI

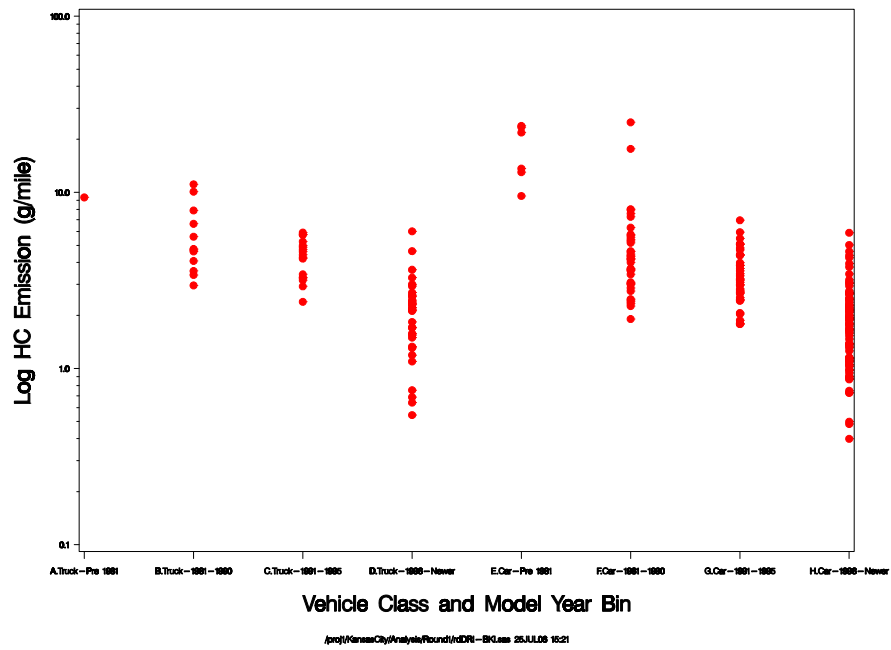
Bag 1– Cold Start (Log Scale)



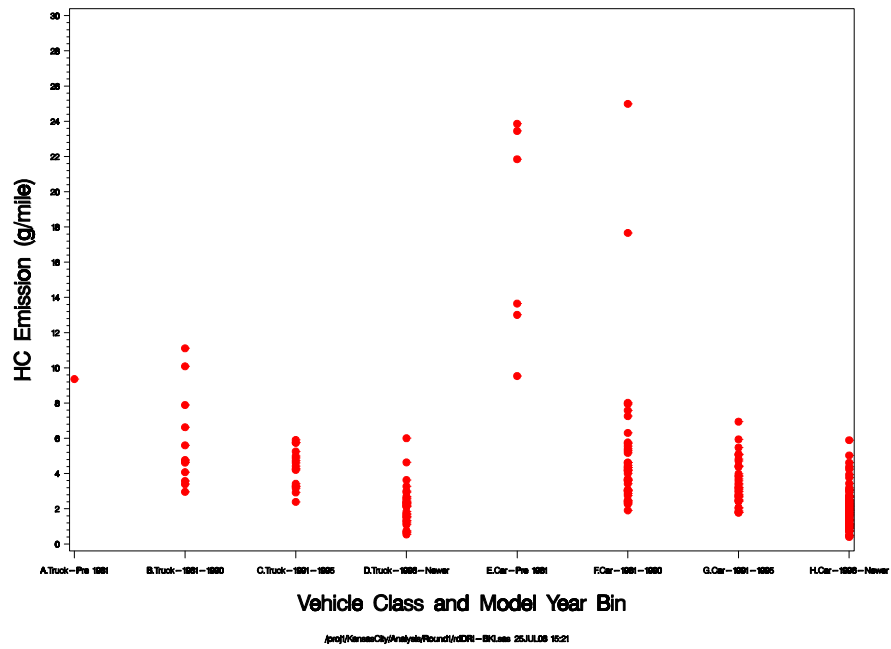
Bag 1– Cold Start (Linear Scale)



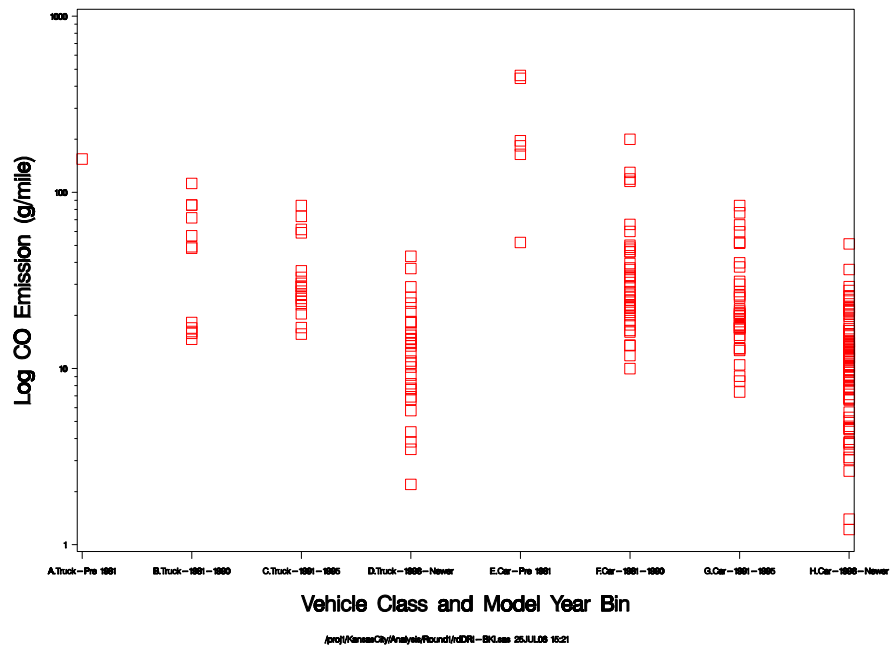
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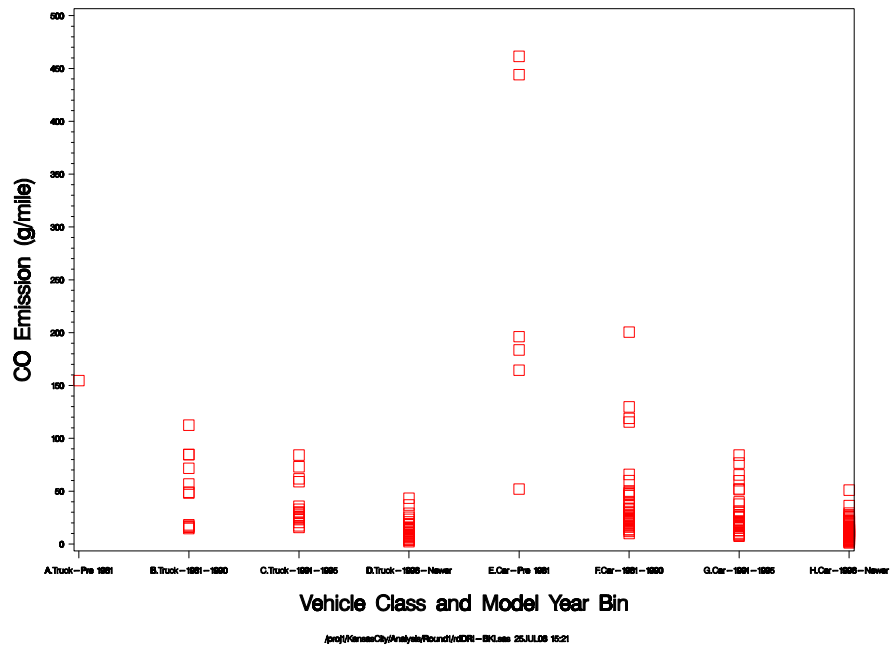
Bag 1- Cold Start (Linear Scale)



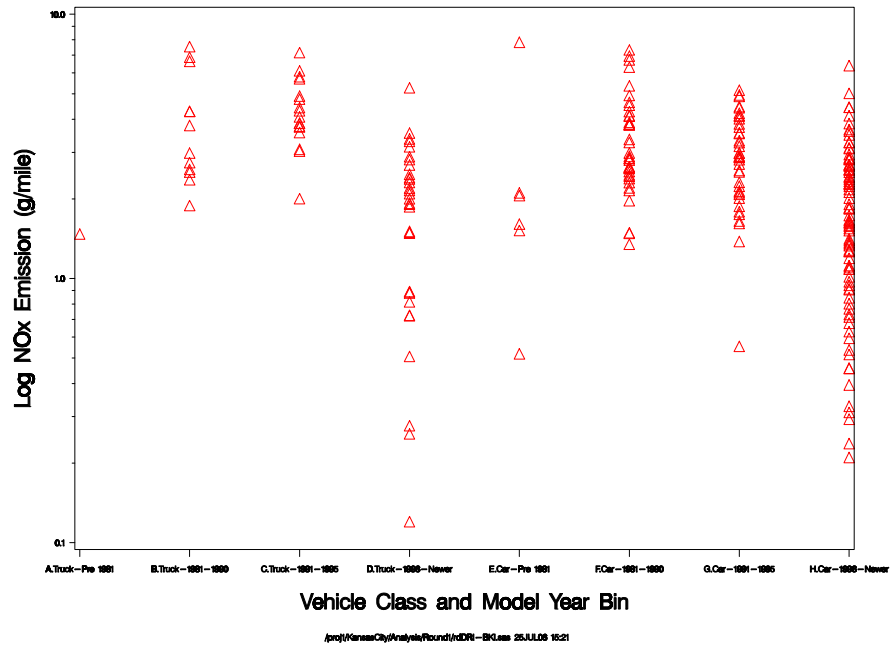
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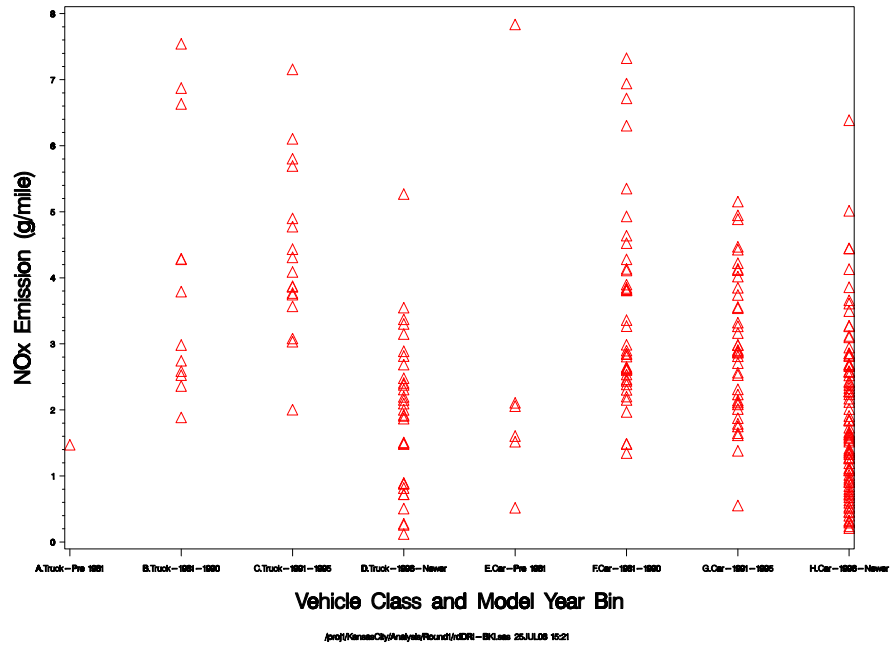
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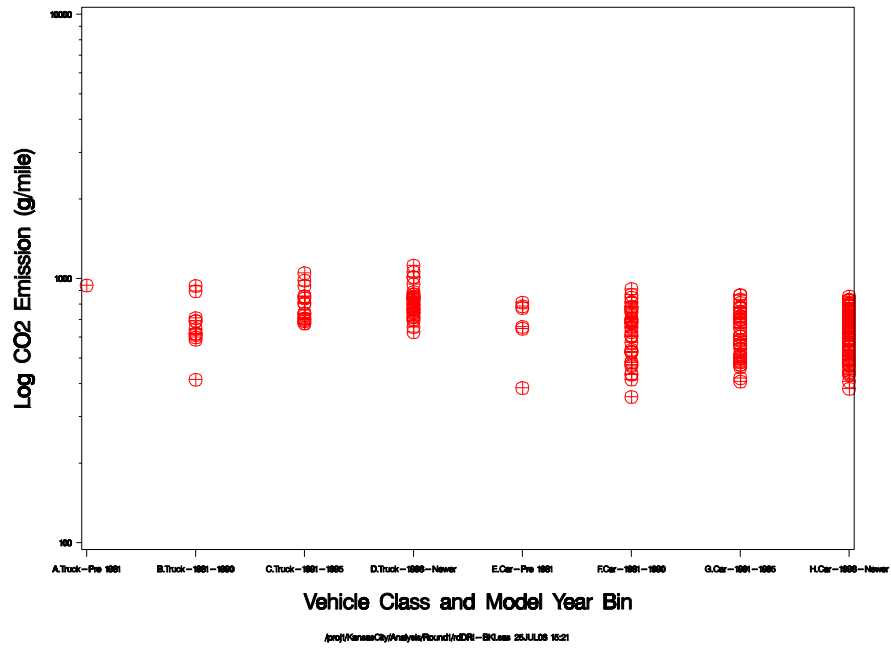
Bag 1- Cold Start (Log Scale)



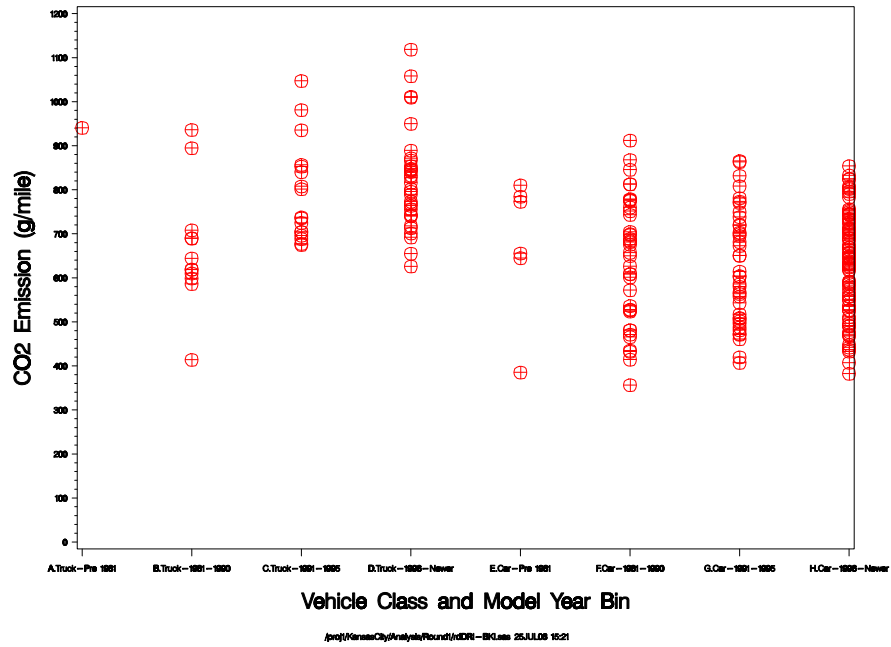
Bag 1- Cold Start (Linear Scale)



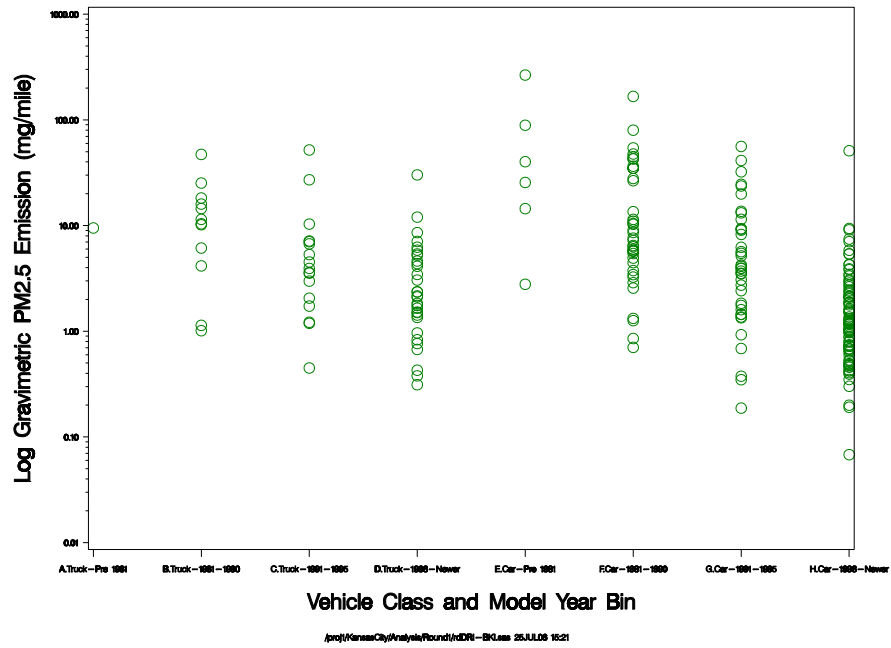
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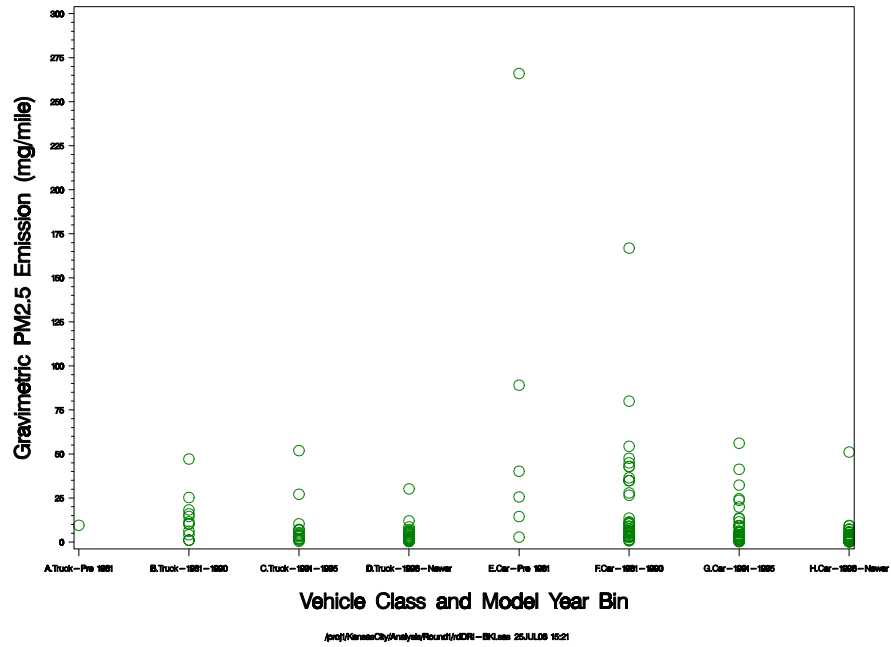
Bag 1– Cold Start (Linear Scale)



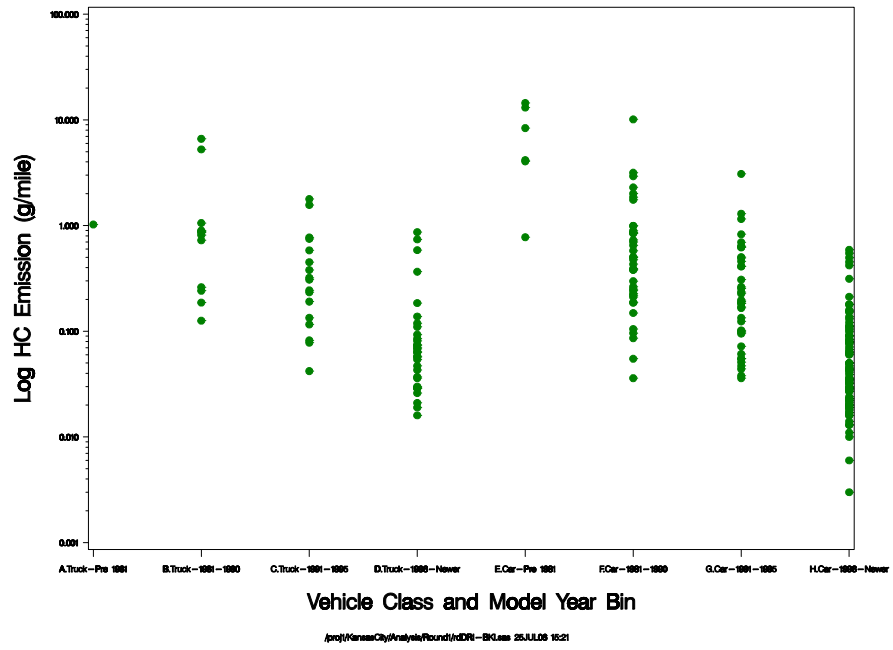
Bag 2— Transient (Log Scale)



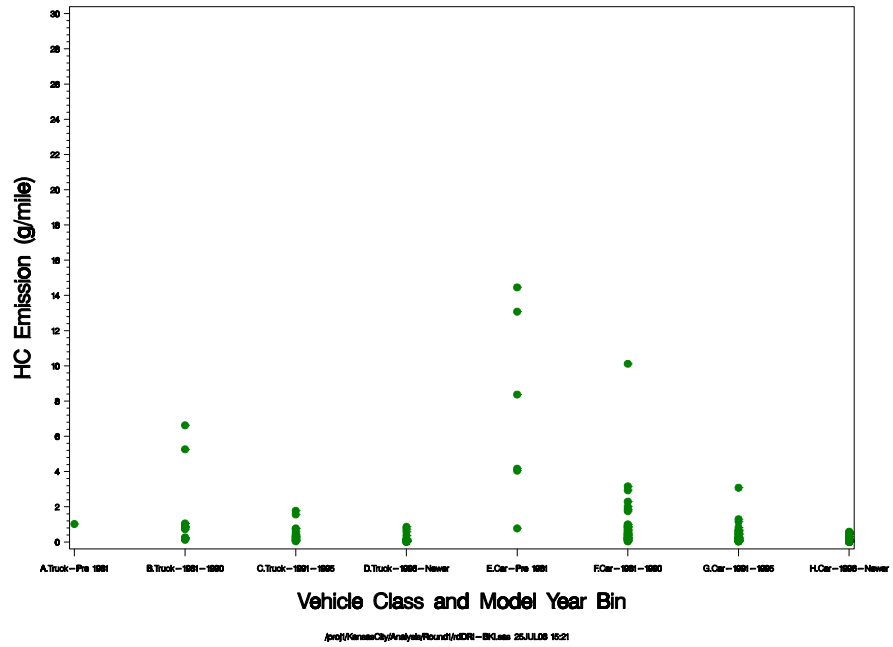
Bag 2— Transient (Linear Scale)



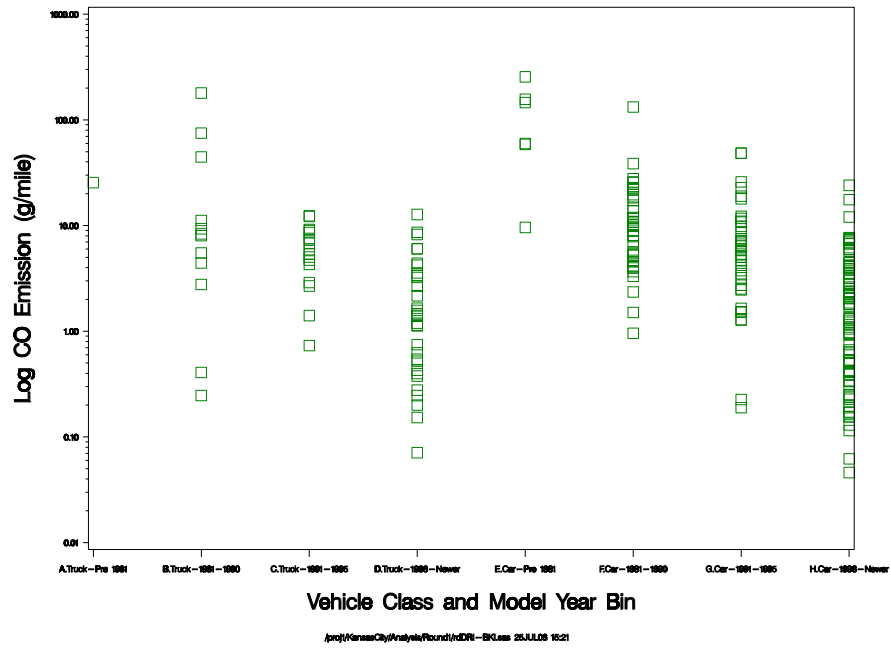
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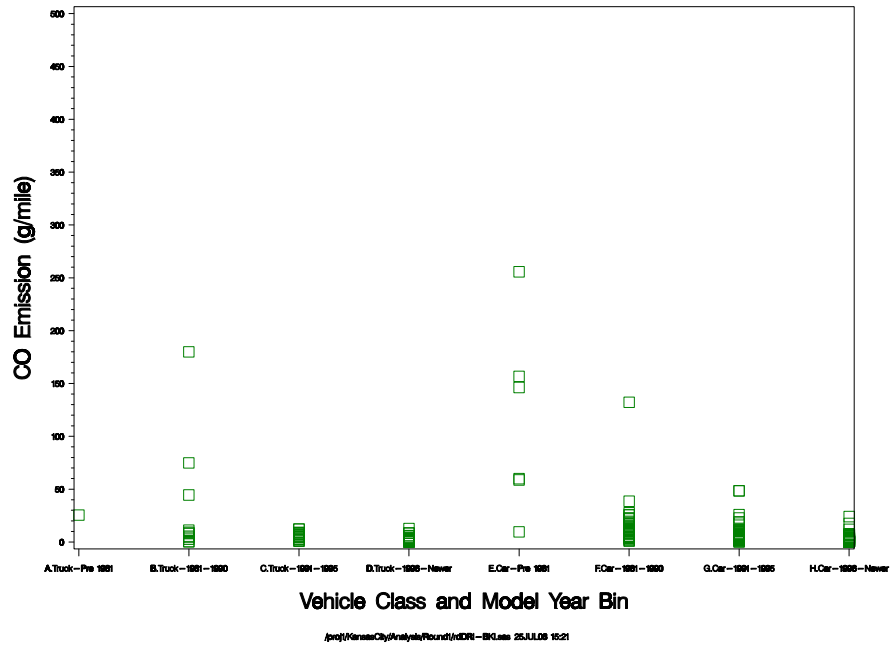
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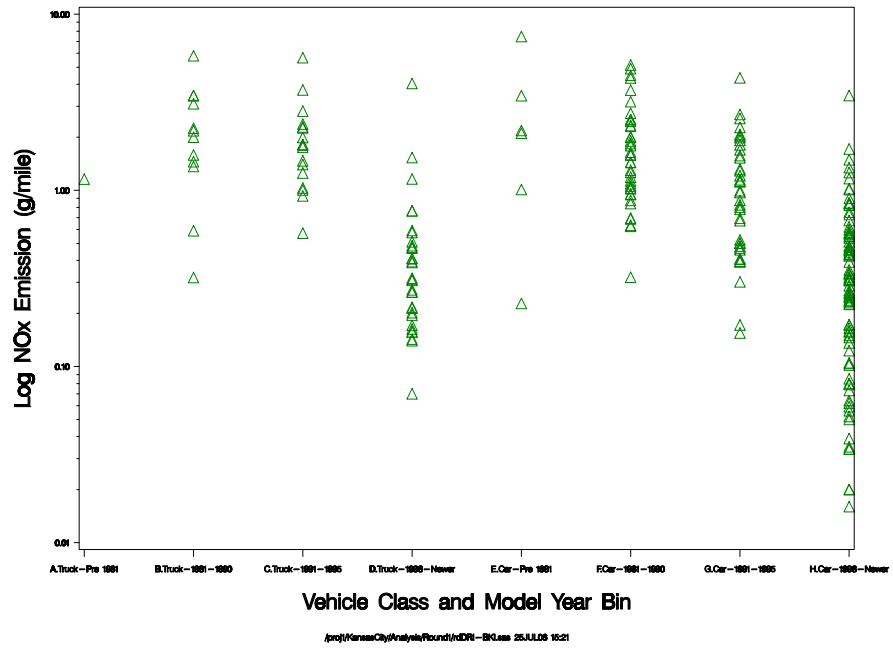
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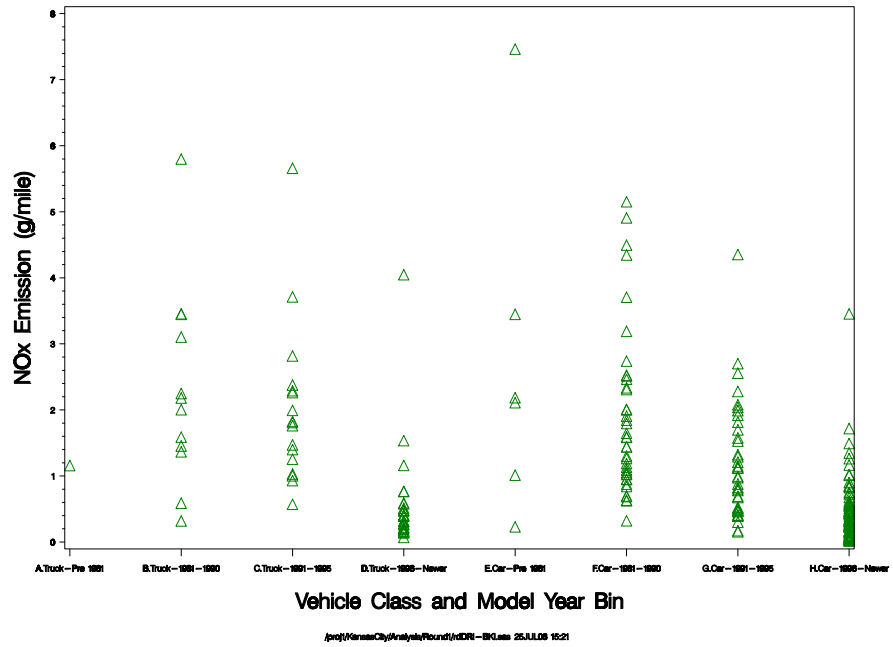
Bag 2— Transient (Linear Scale)



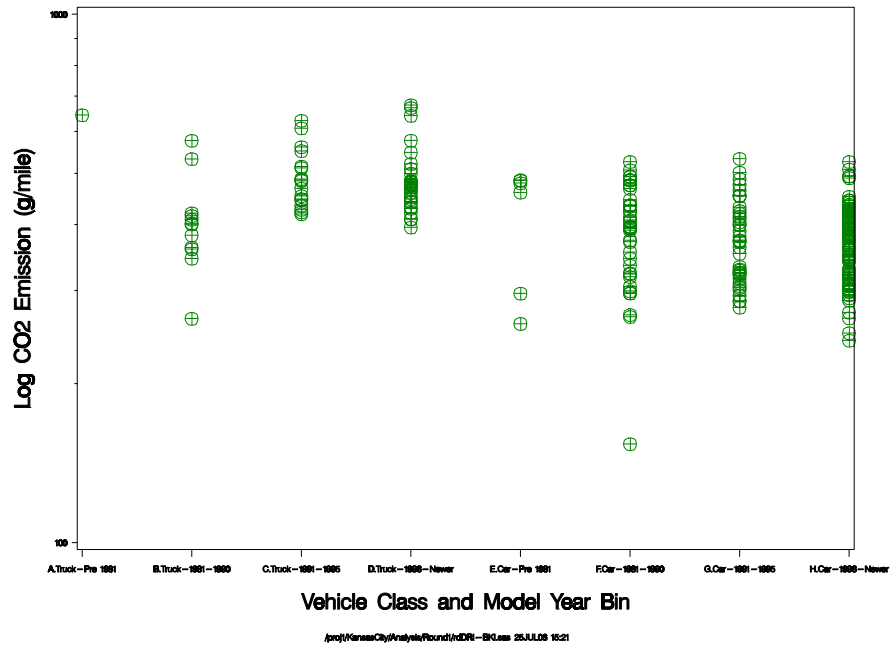
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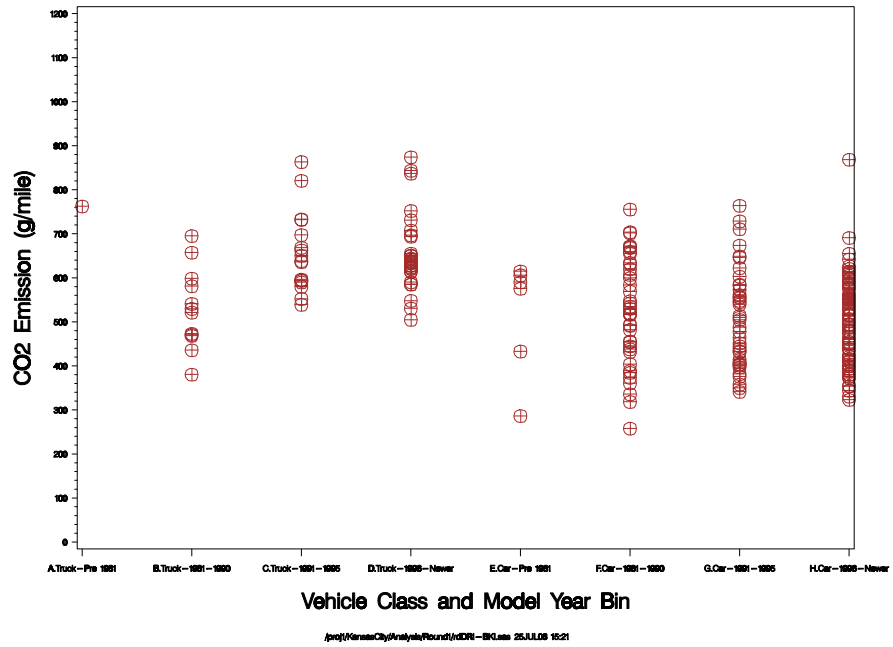
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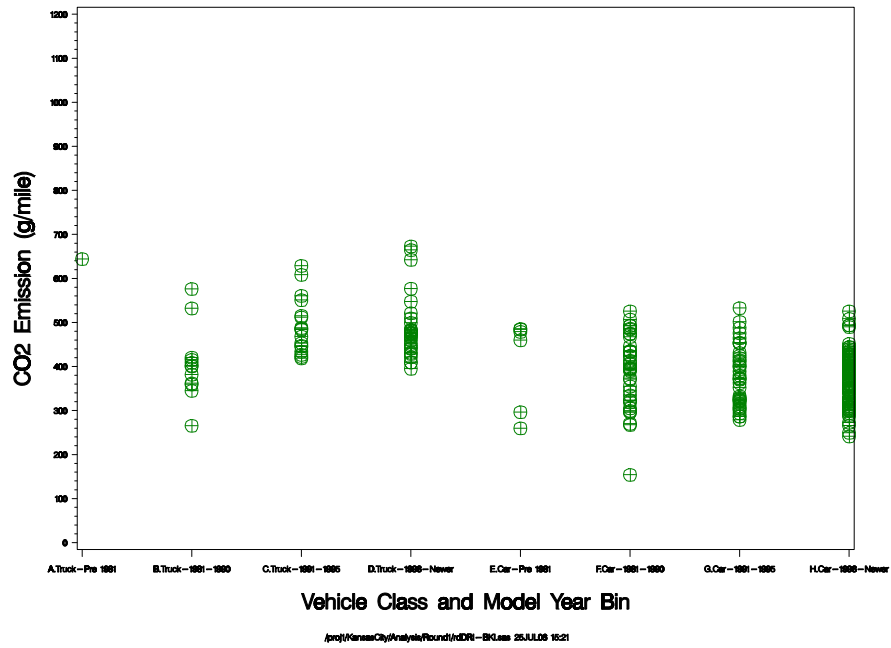
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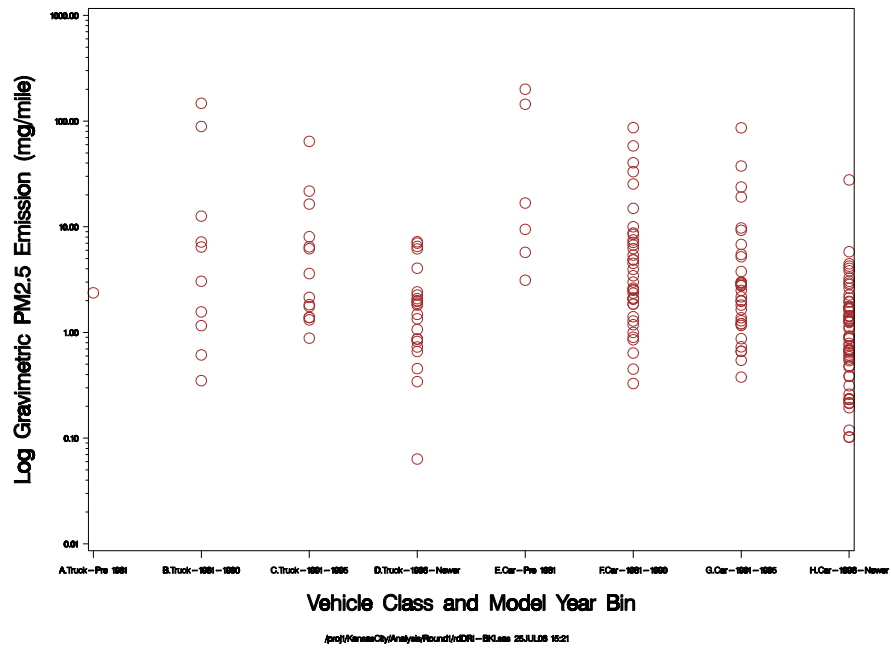
Bag 3— Warm Start (Linear Scale)



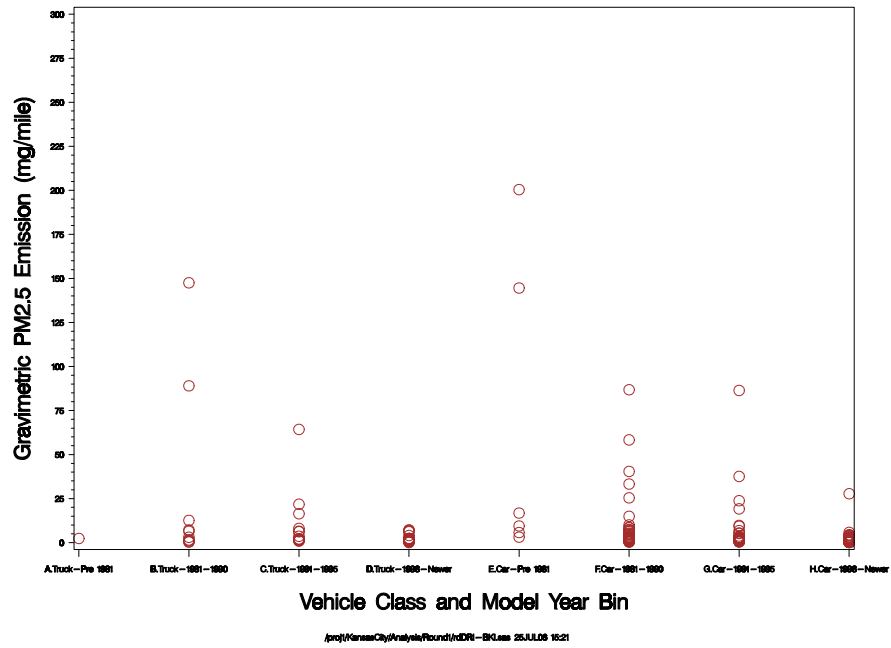
Bag 2— Transient (Linear Scale)



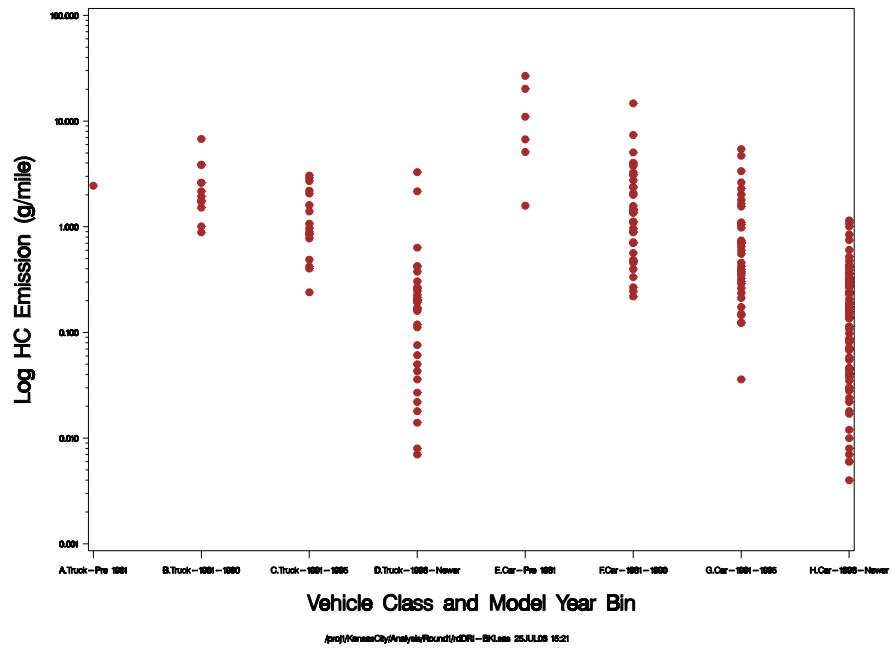
Bag 3— Warm Start (Log Scale)



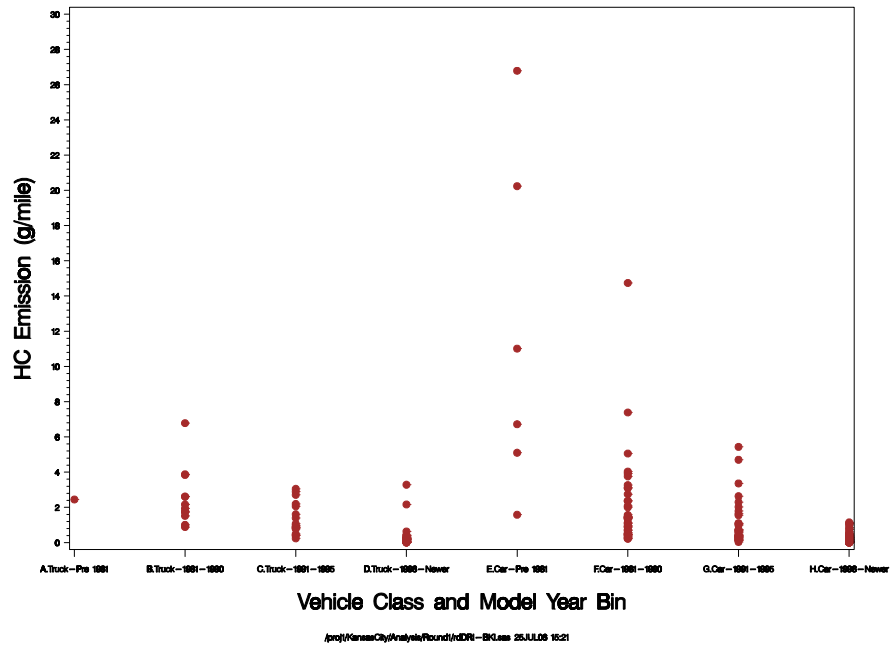
Bag 3– Warm Start (Linear Scale)



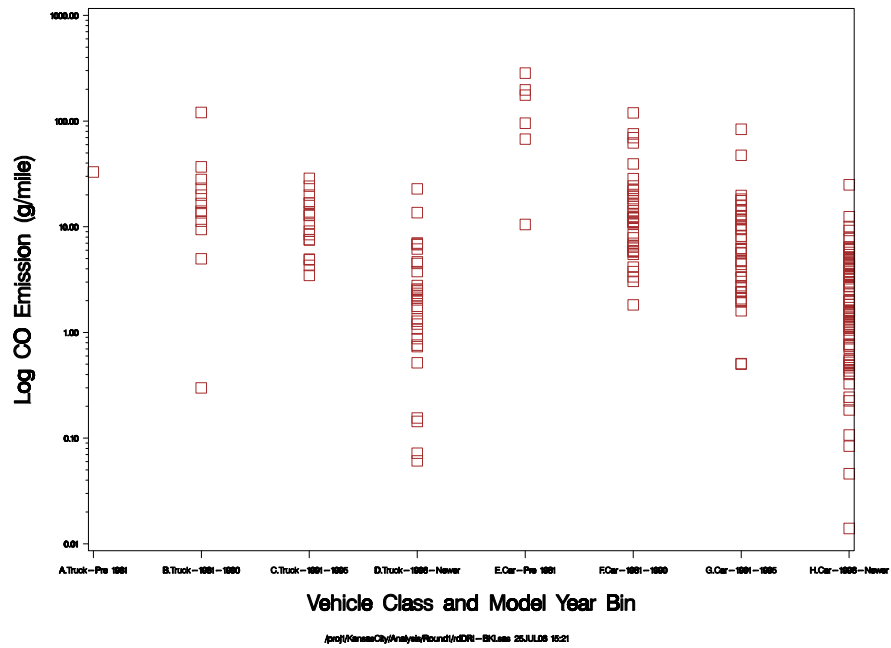
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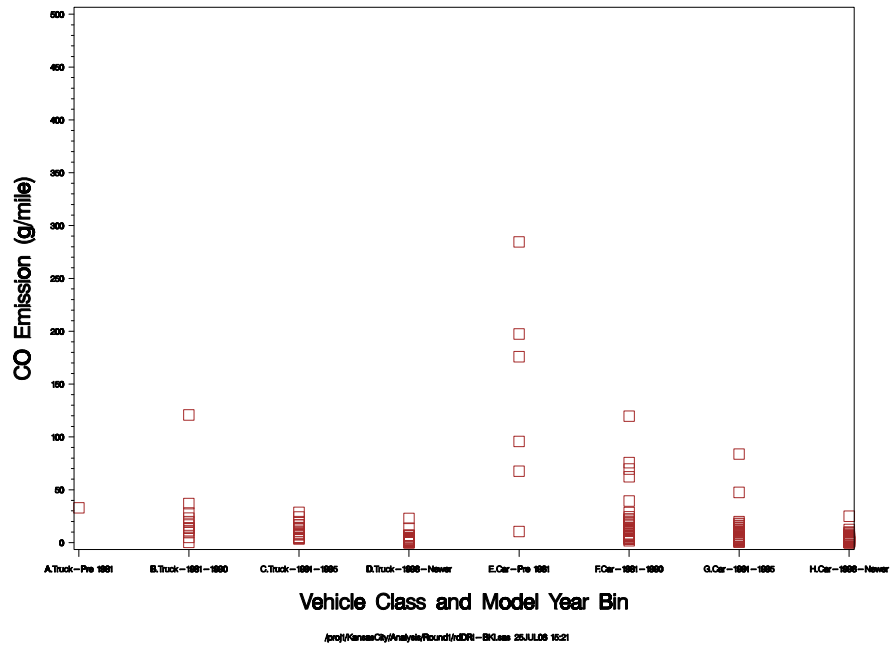
Bag 3– Warm Start (Linear Scale)



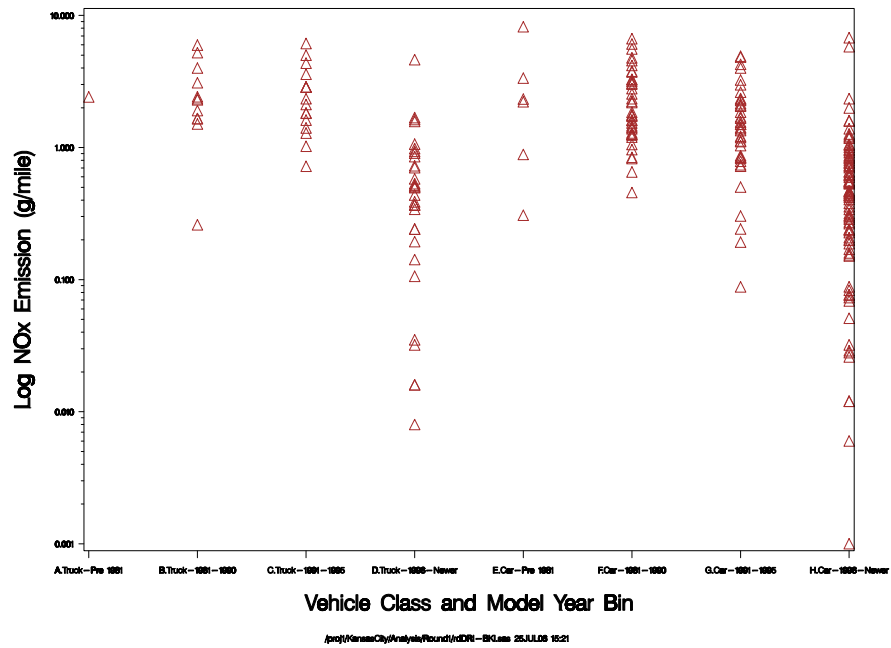
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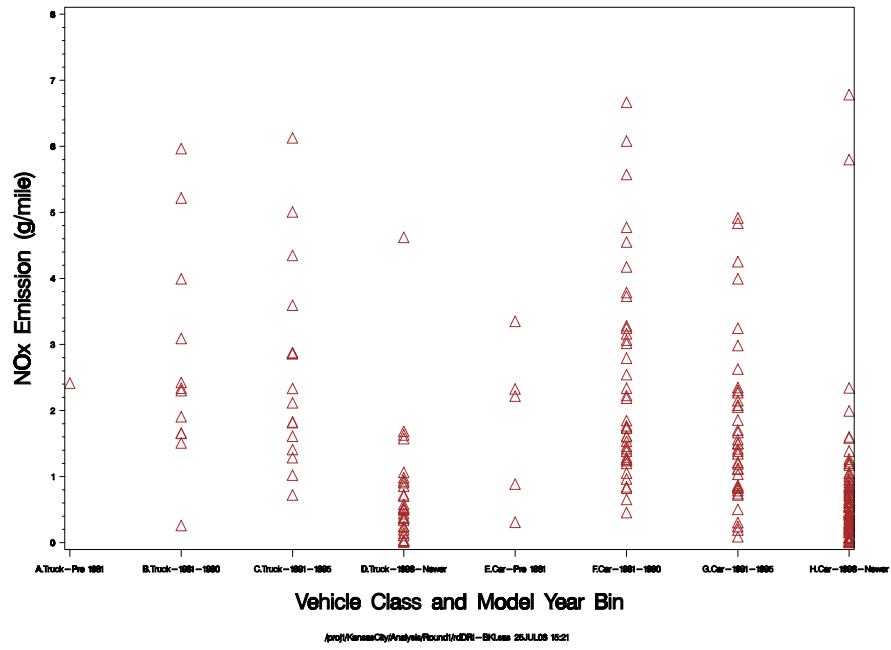
Bag 3– Warm Start (Linear Scale)



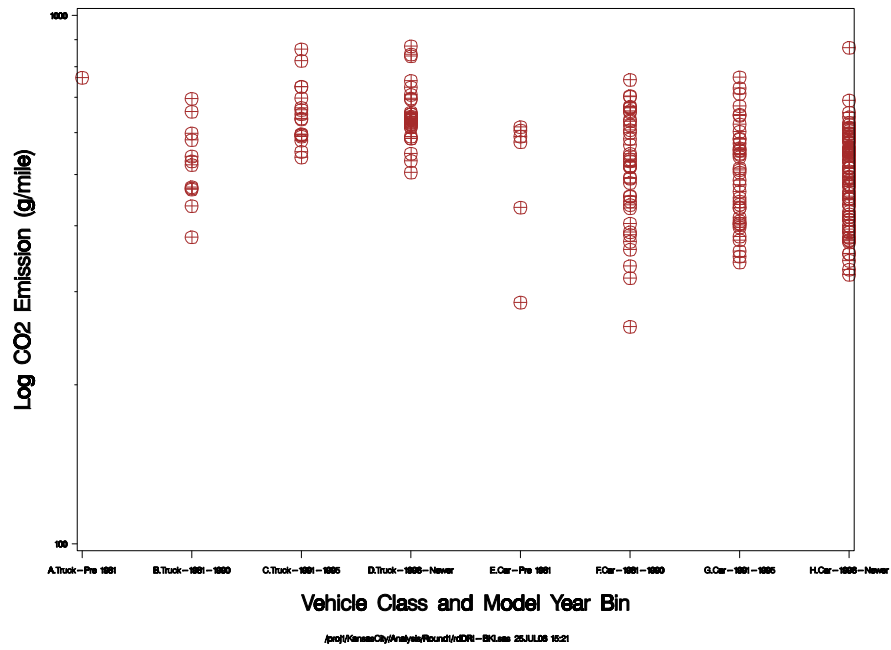
Bag 3– Warm Start (Log Scale)



Bag 3– Warm Start (Linear Scale)

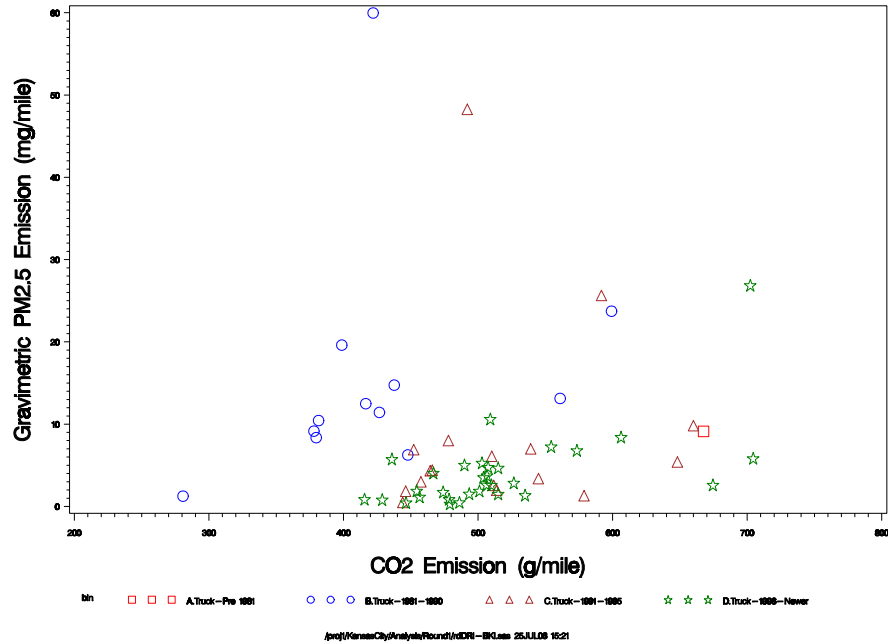


Bag 3– Warm Start (Log Scale)

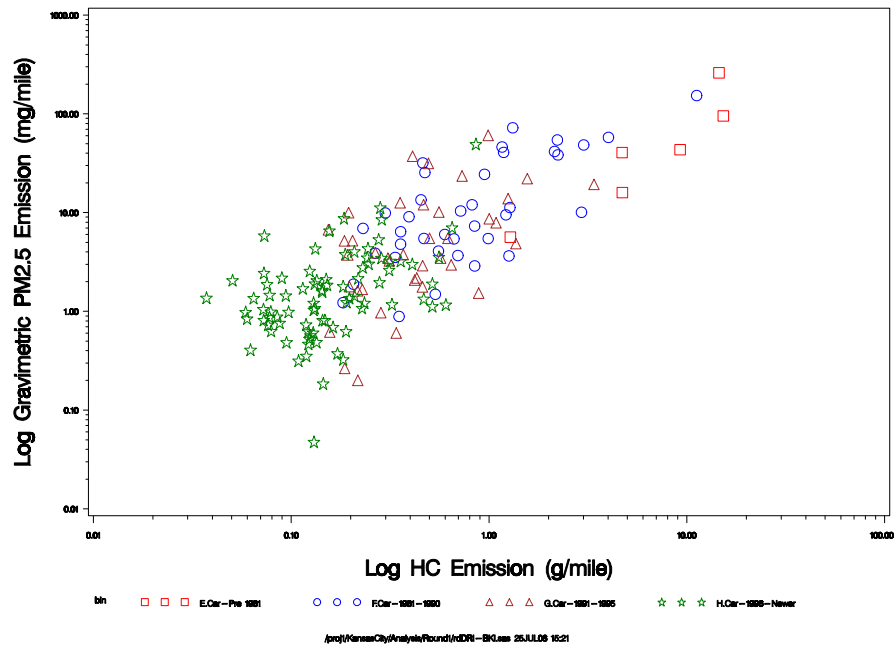


Scatter Plots of Dynamometer Measurements vs. PM_{2.5} Measured by Gravimetric Mass-DRI

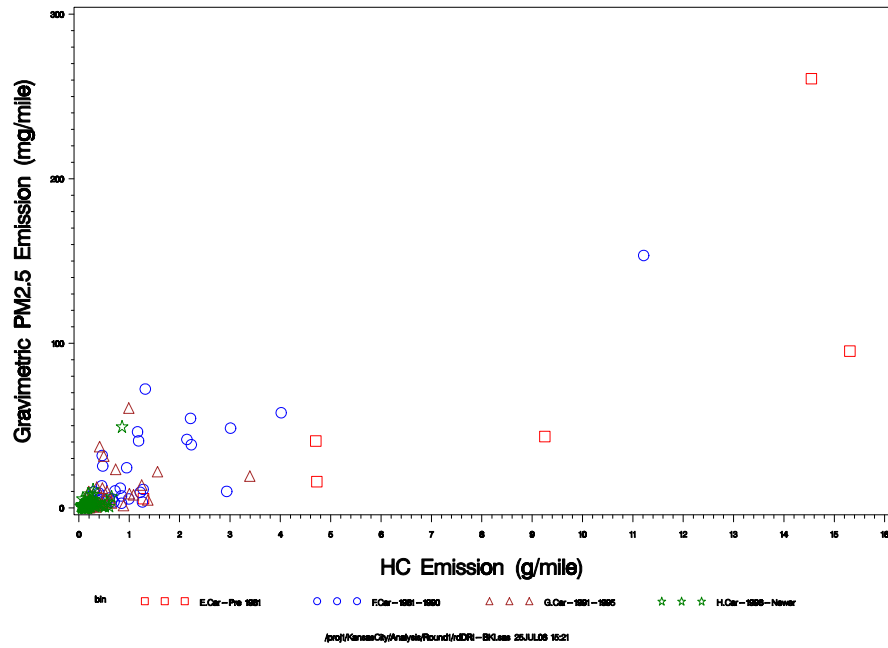
Scatter Plot of Composite PM2.5 vs Composite CO2 (Linear Scale) – TRUCK



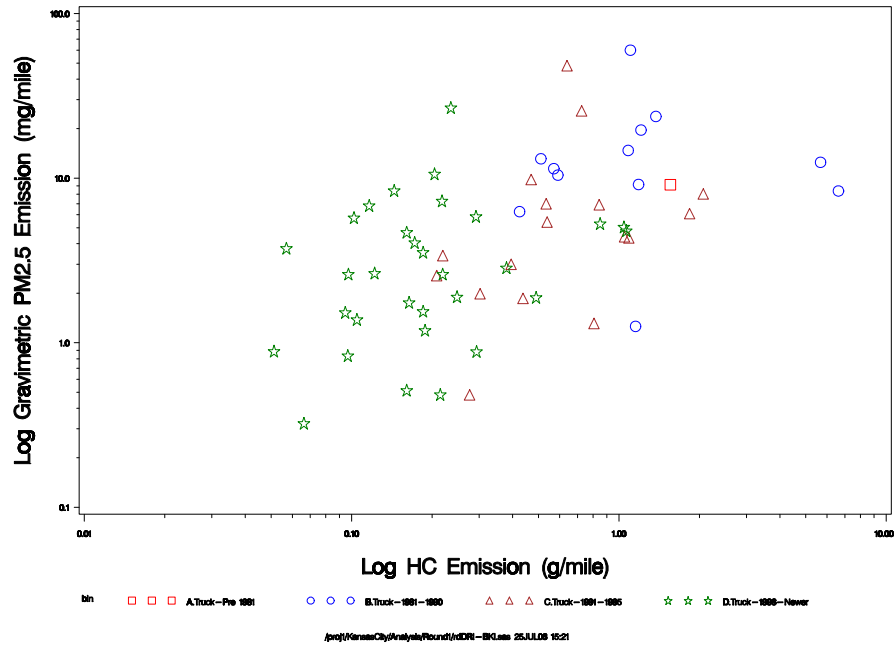
Scatter Plot of Composite PM2.5 vs Composite HC (Log Scale) – CAR



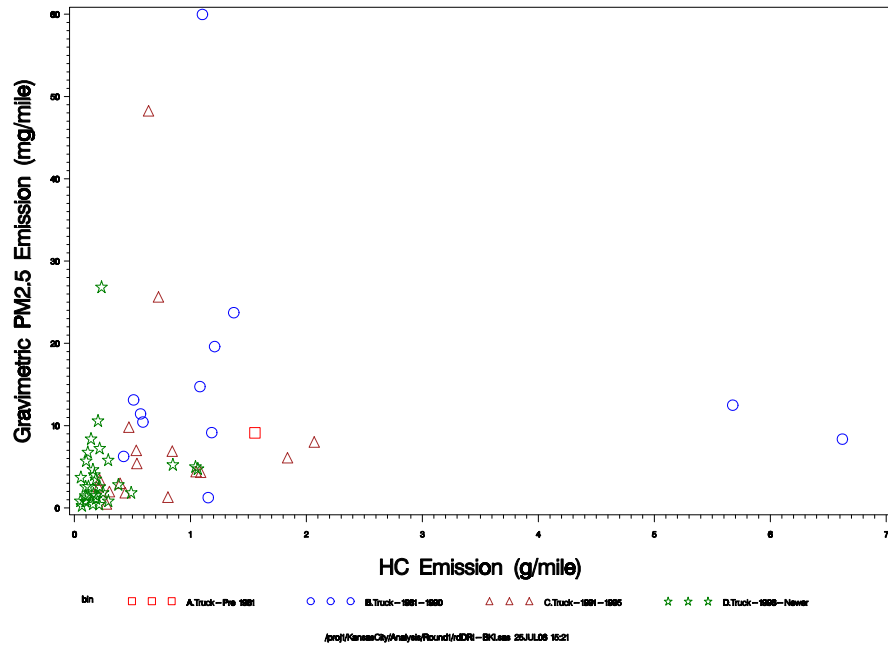
Scatter Plot of Composite PM2.5 vs Composite HC (Linear Scale) – CAR



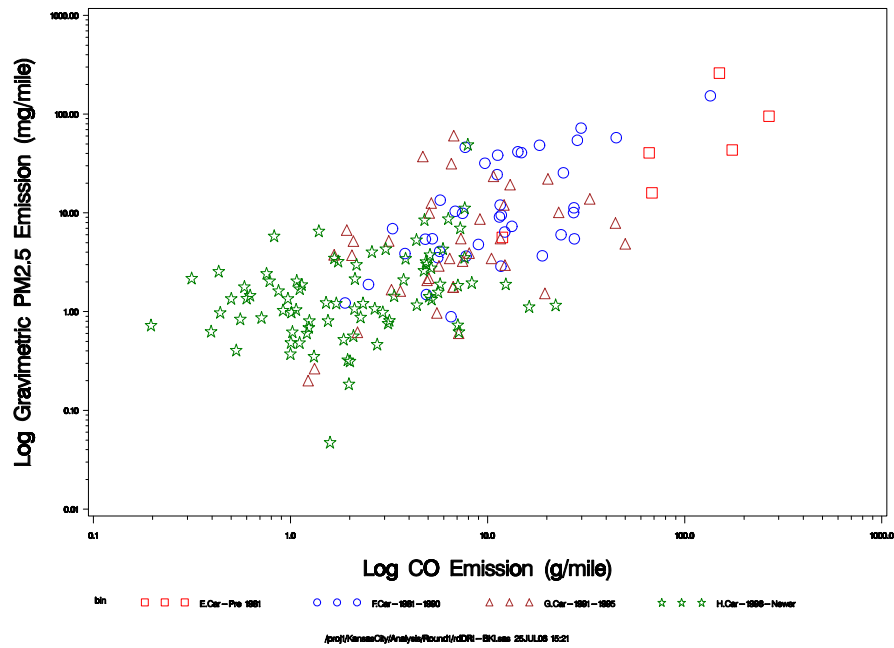
Scatter Plot of Composite PM2.5 vs Composite HC (Log Scale) – TRUCK



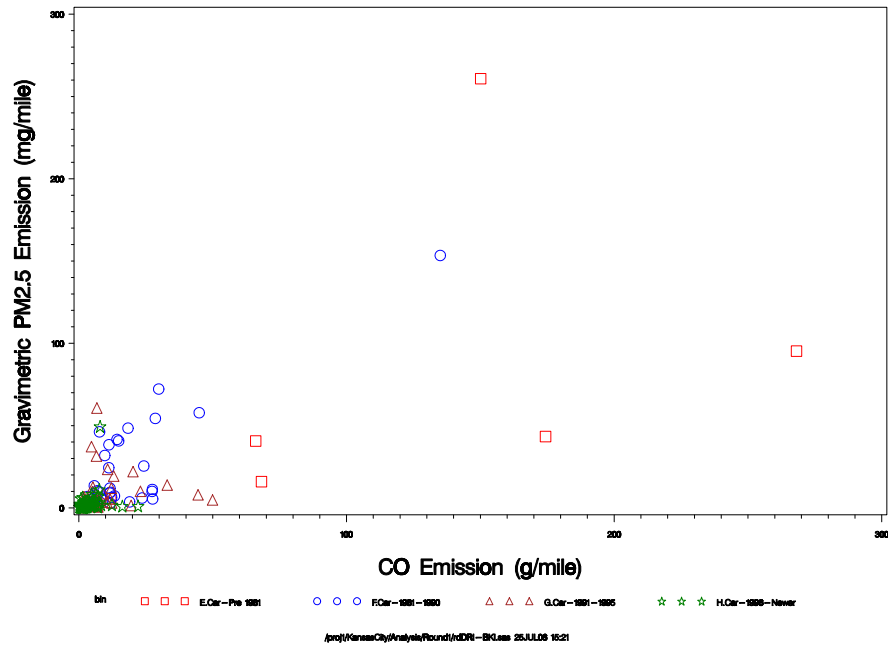
Scatter Plot of Composite PM2.5 vs Composite HC (Linear Scale) – TRUCK



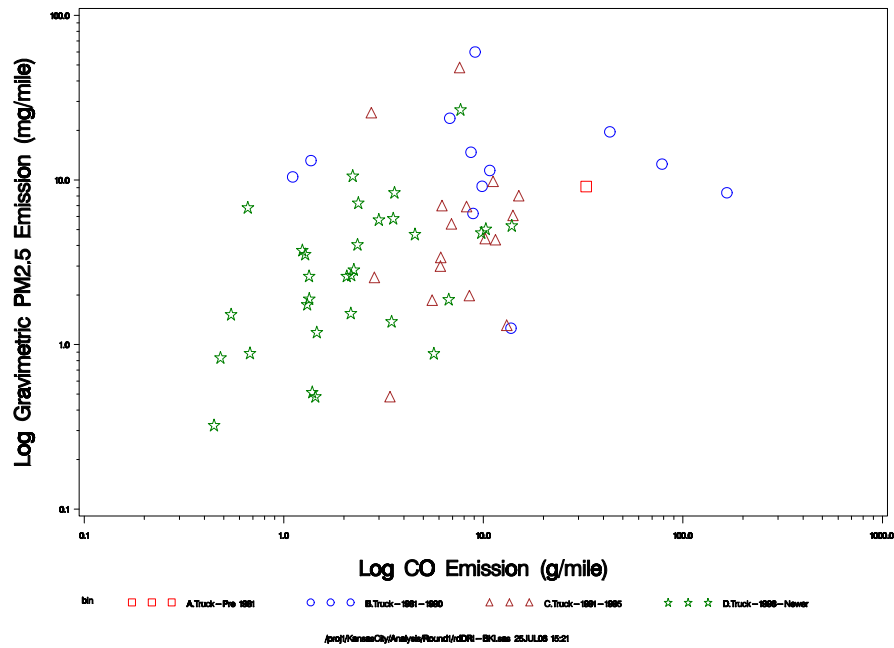
Scatter Plot of Composite PM2.5 vs Composite CO (Log Scale) – CAR



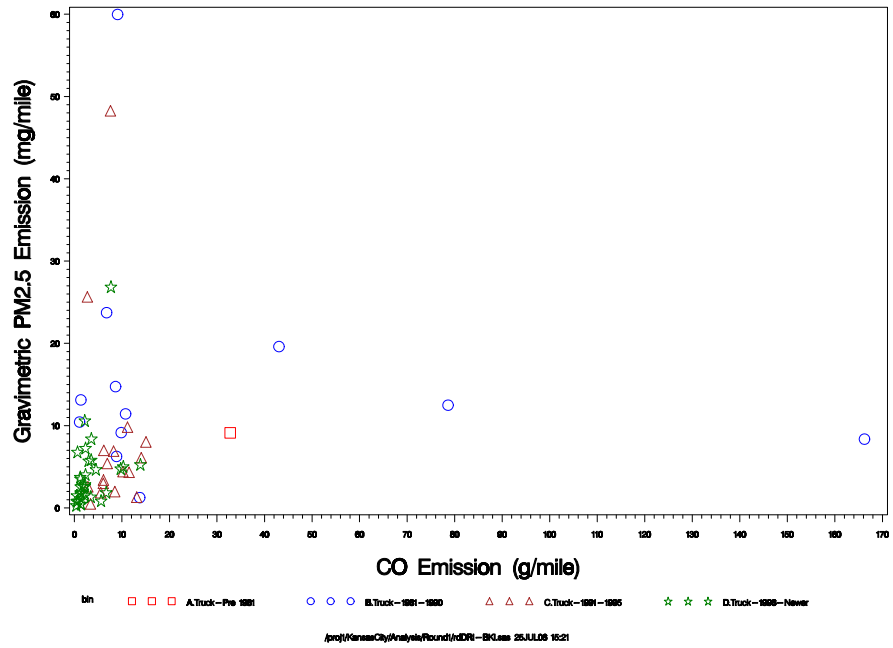
Scatter Plot of Composite PM2.5 vs Composite CO (Linear Scale) – CAR



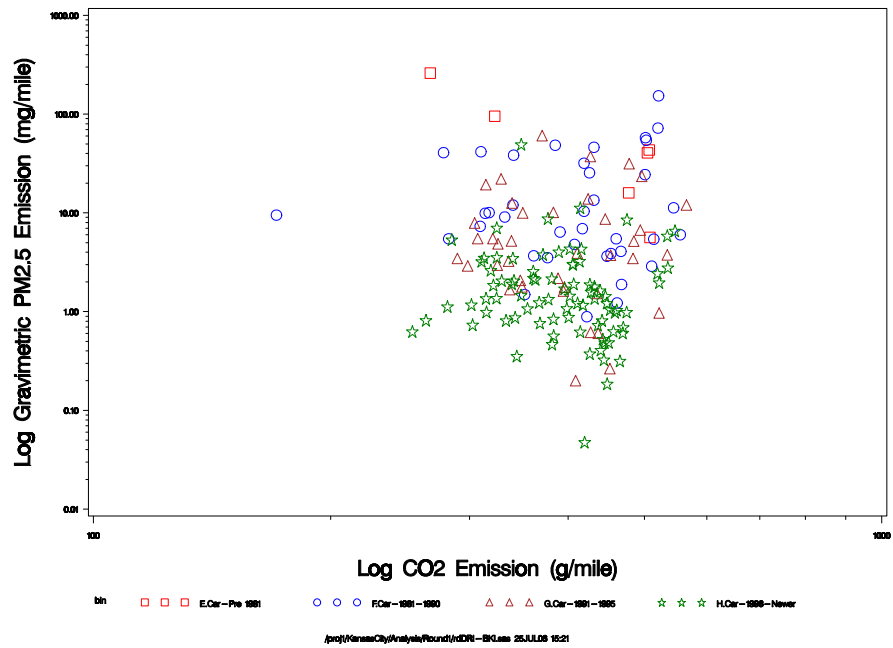
Scatter Plot of Composite PM2.5 vs Composite CO (Log Scale)– TRUCK



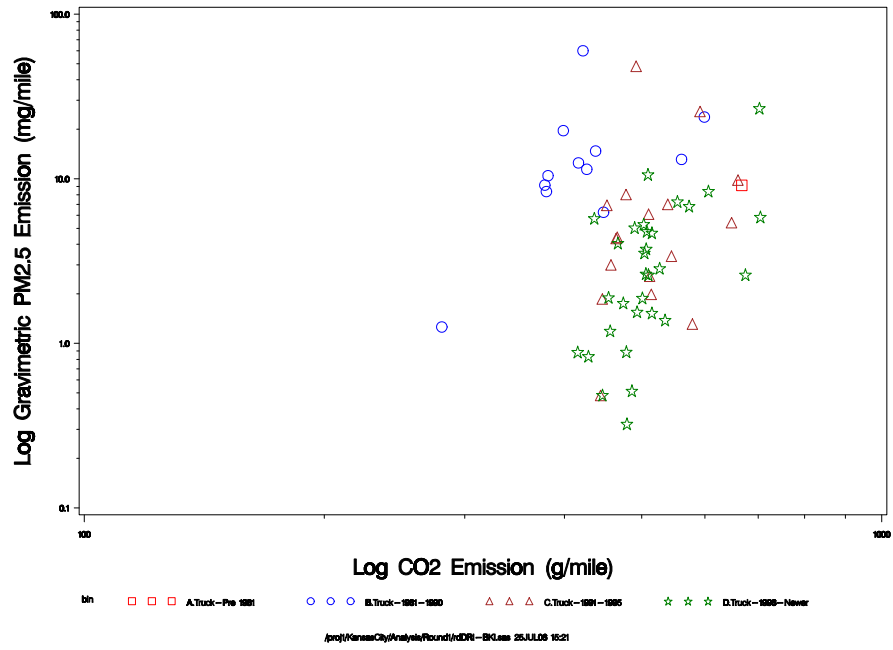
Scatter Plot of Composite PM2.5 vs Composite CO (Linear Scale) – TRUCK



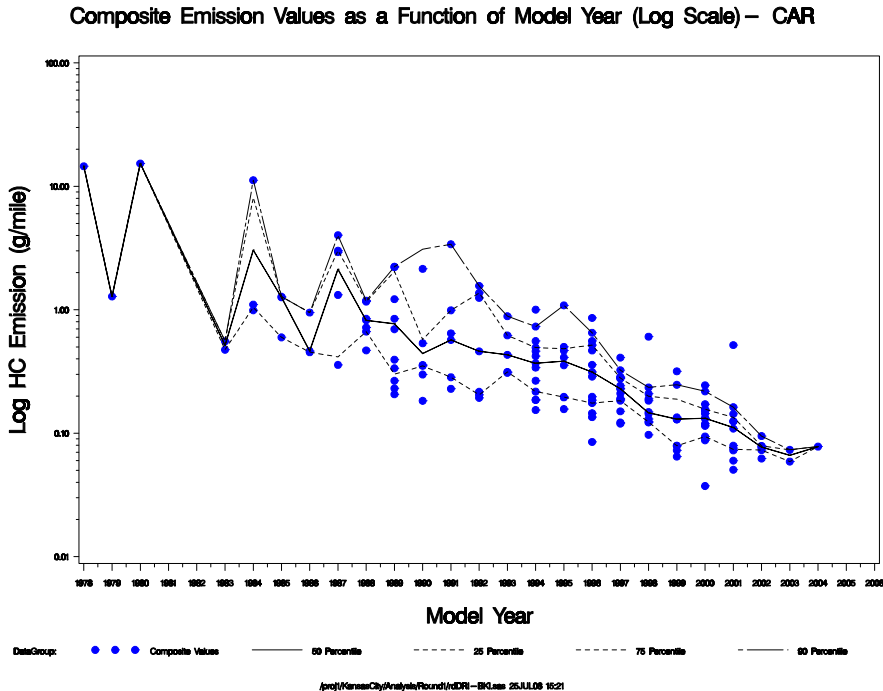
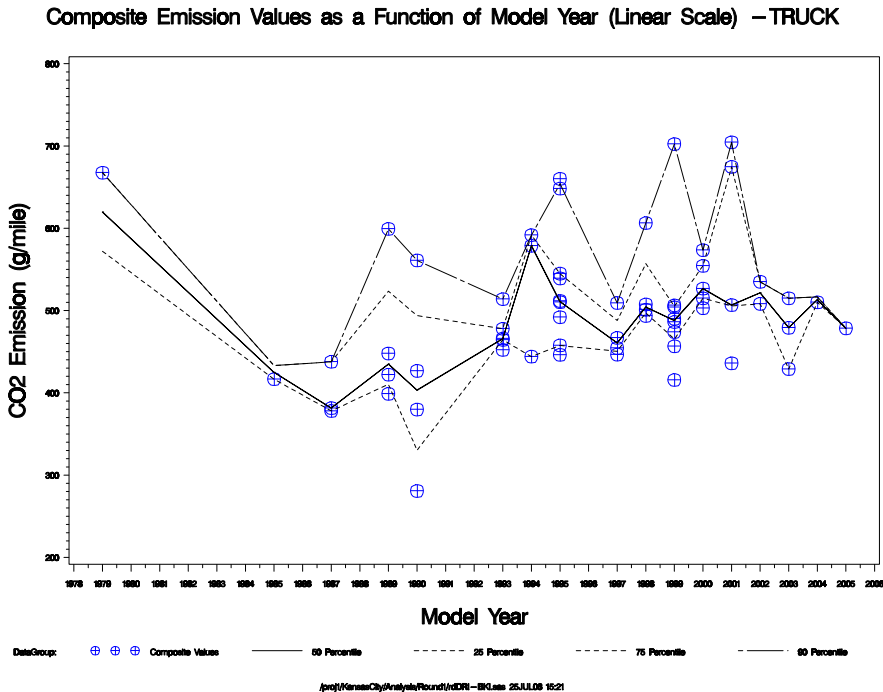
Scatter Plot of Composite PM2.5 vs Composite CO2 (Log Scale) – CAR



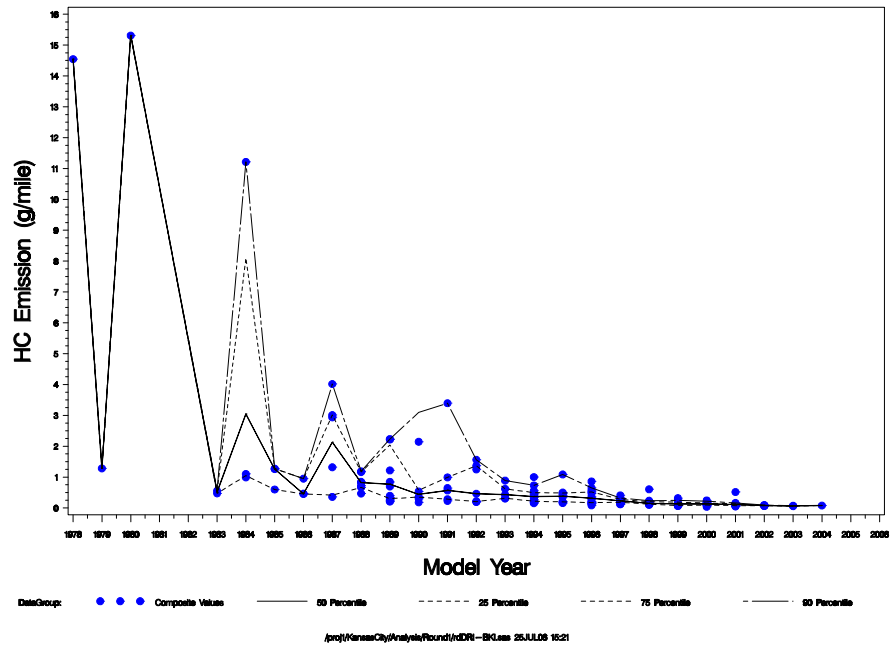
Scatter Plot of Composite PM2.5 vs Composite CO2 (Log Scale) – TRUCK



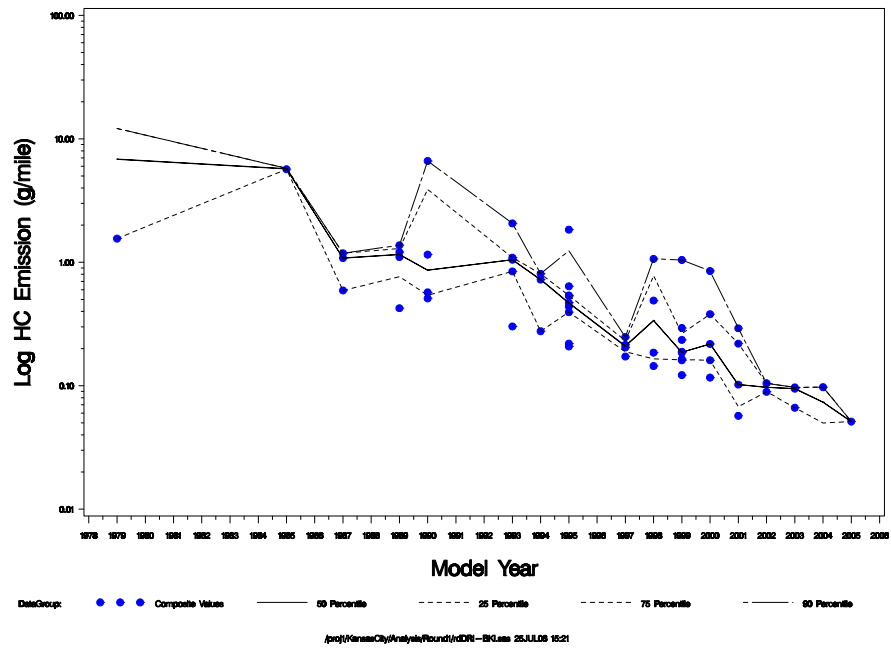
Plots of Dynamometer Measurements as a Function of Model Year



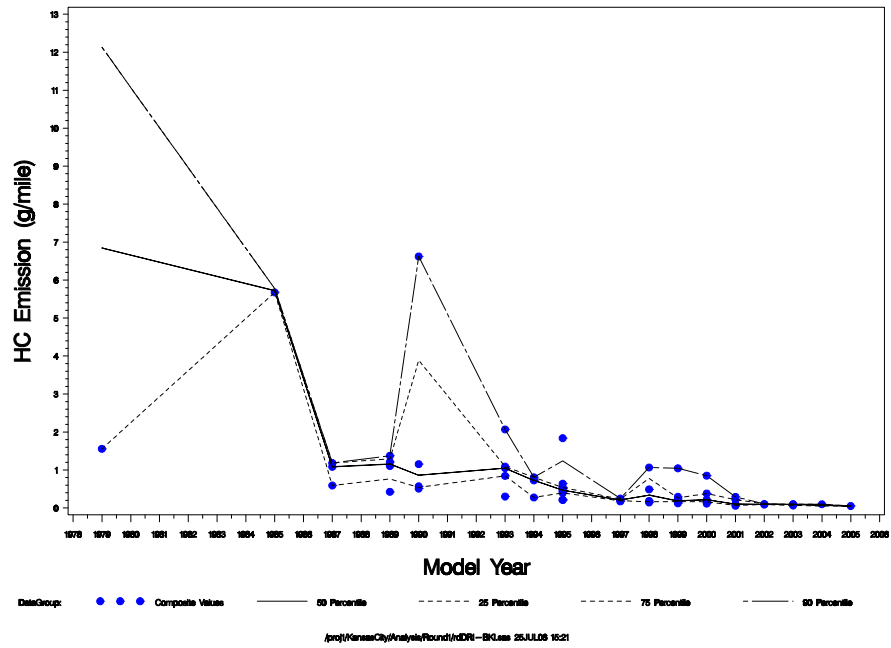
Composite Emission Values as a Function of Model Year (Linear Scale) – CAR



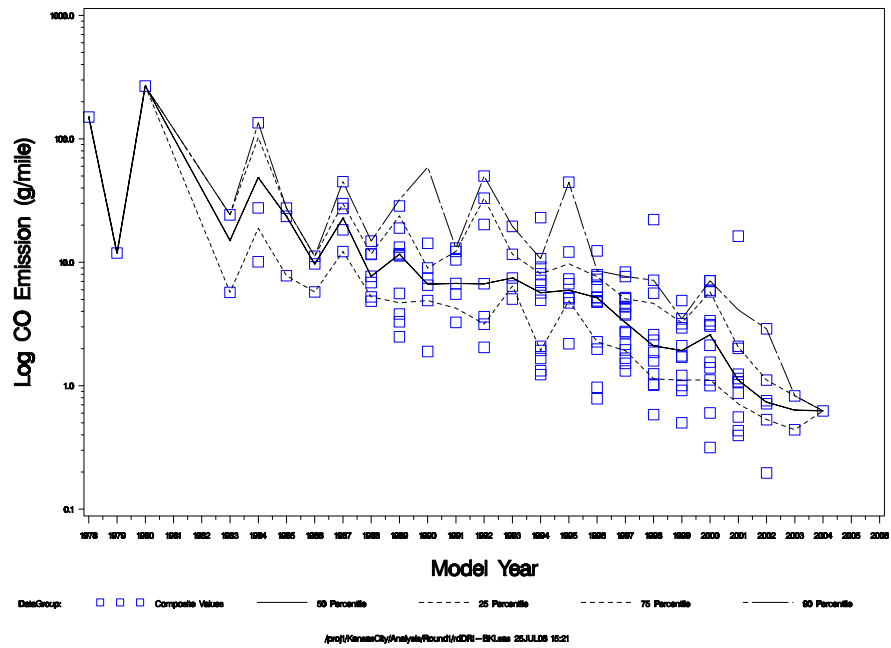
Composite Emission Values as a Function of Model Year (Log Scale) – TRUCK



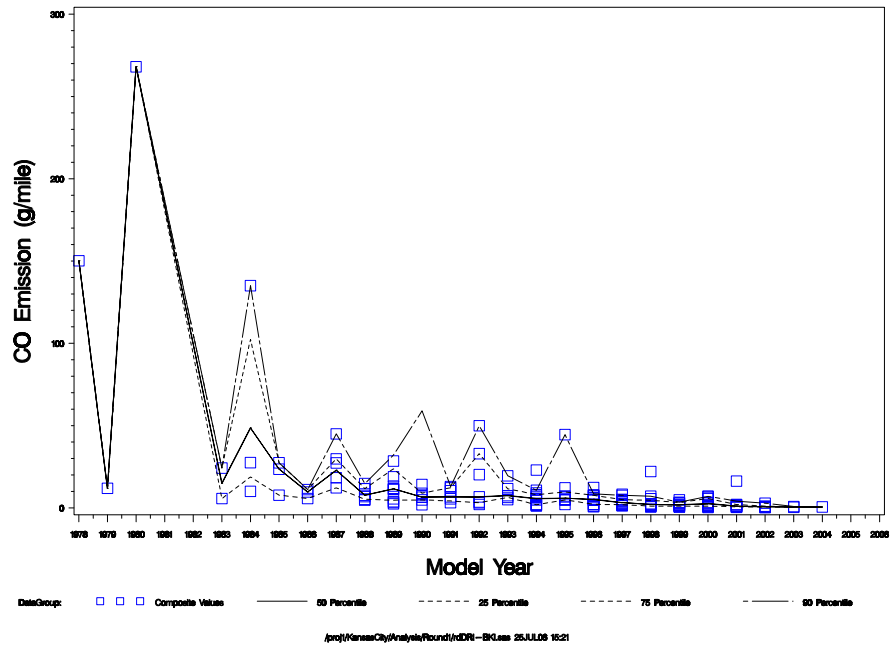
Composite Emission Values as a Function of Model Year (Linear Scale) – TRUCK



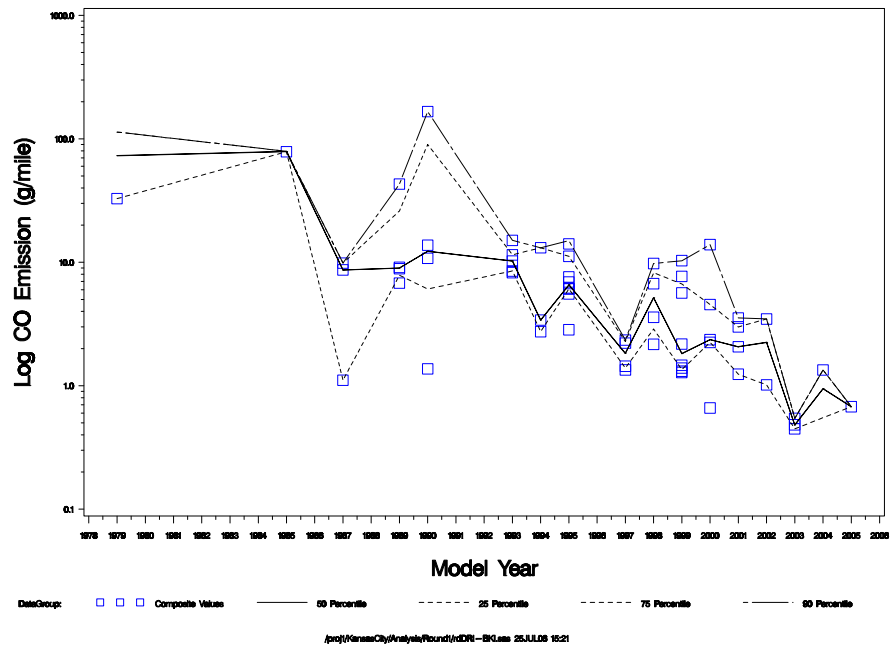
Composite Emission Values as a Function of Model Year (Log Scale) – CAR



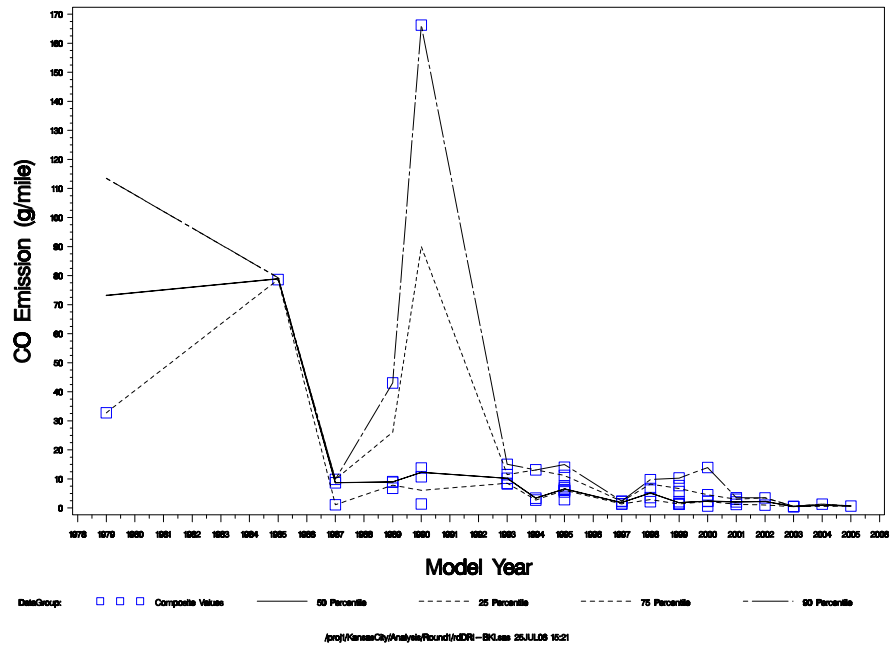
Composite Emission Values as a Function of Model Year (Linear Scale) – CAR



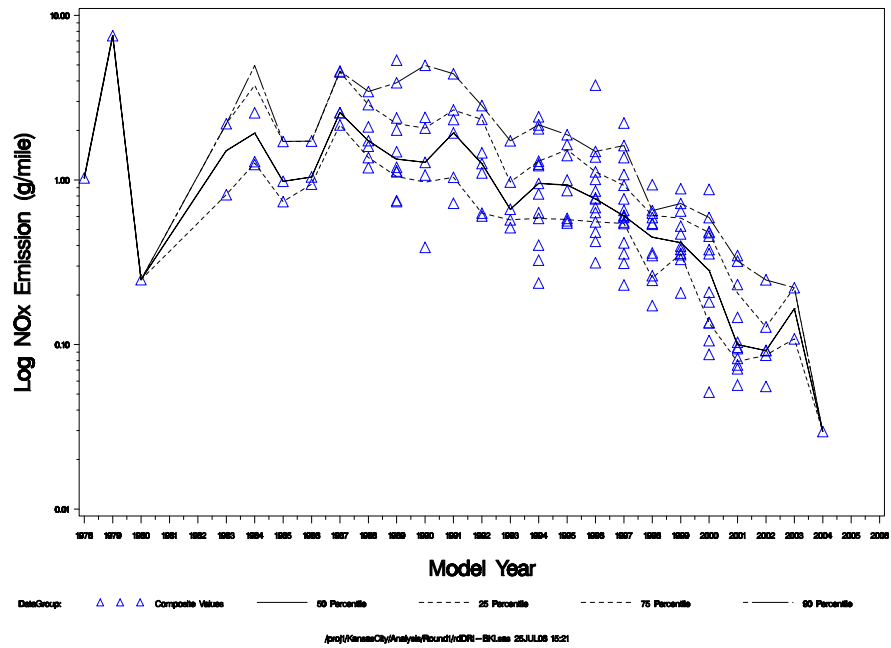
Composite Emission Values as a Function of Model Year (Log Scale) – TRUCK



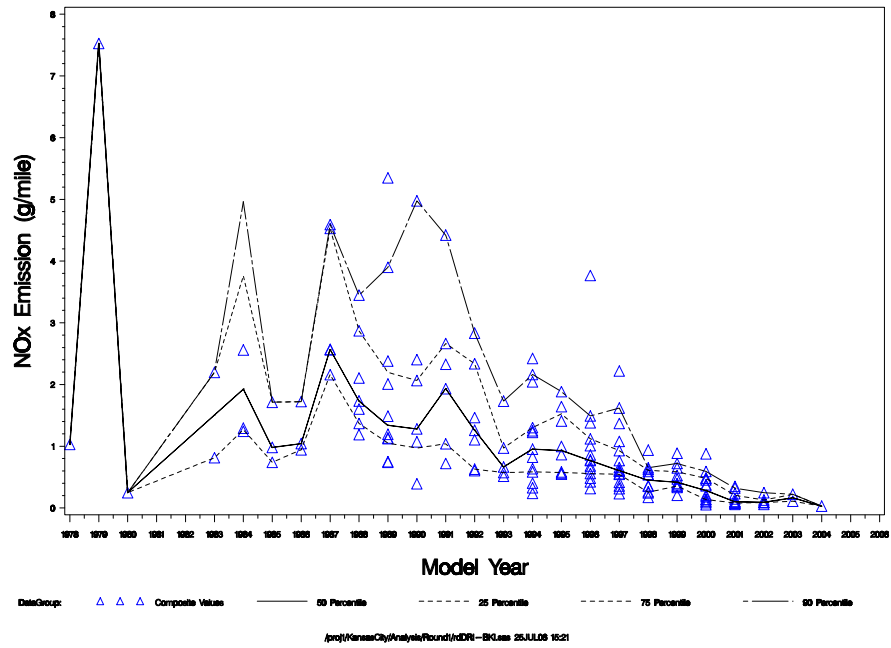
Composite Emission Values as a Function of Model Year (Linear Scale) – TRUCK



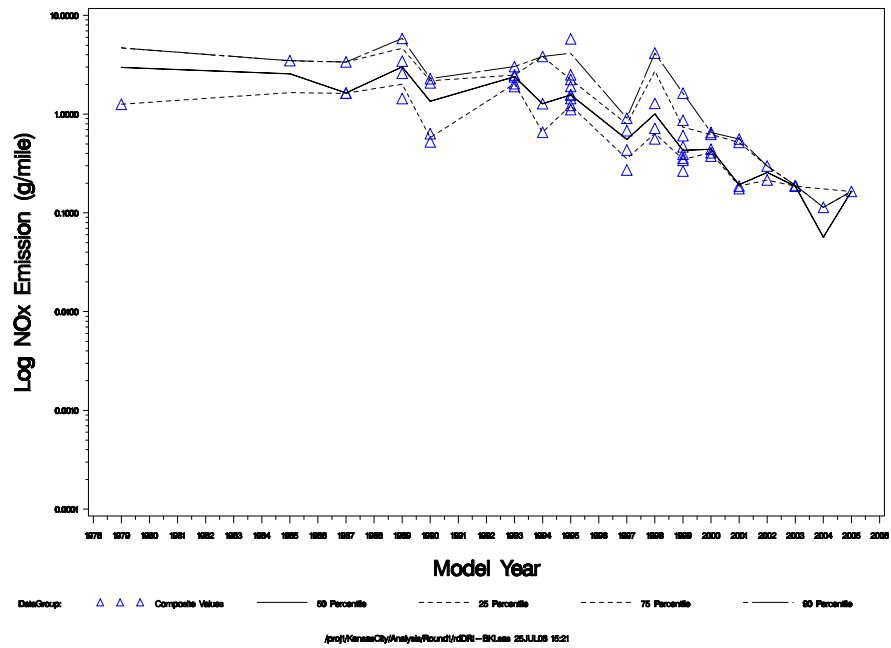
Composite Emission Values as a Function of Model Year (Log Scale) – CAR



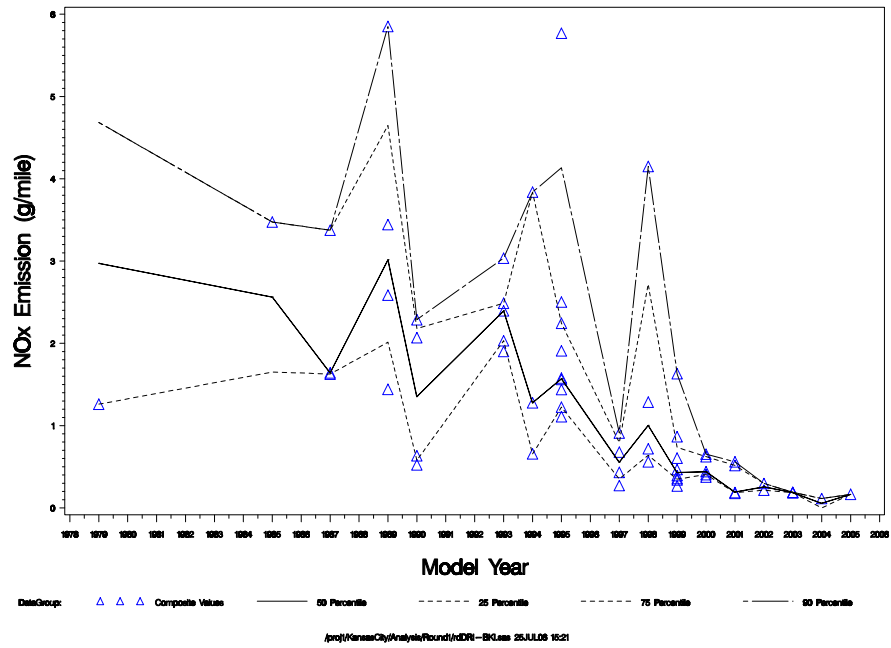
Composite Emission Values as a Function of Model Year (Linear Scale) – CAR



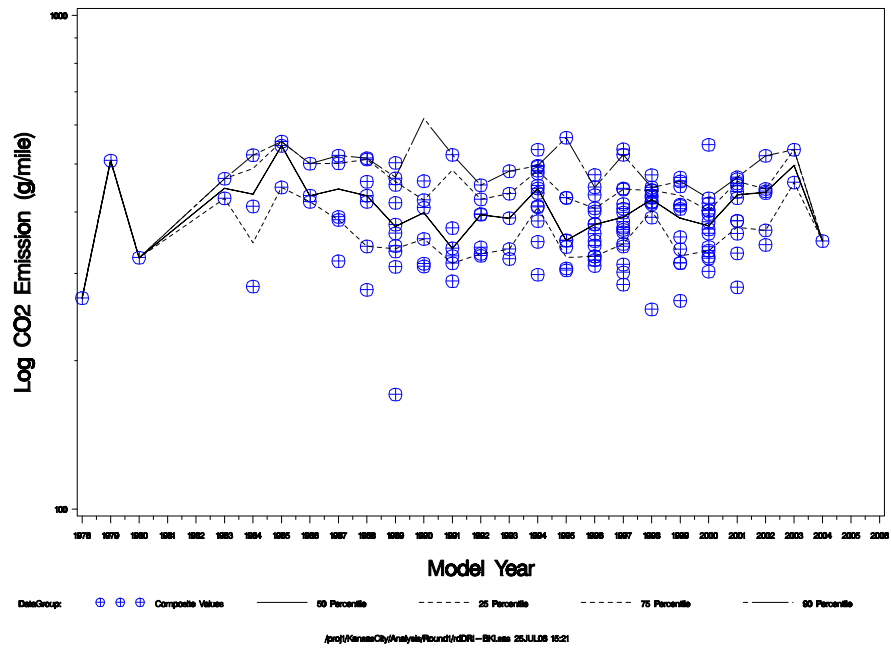
Composite Emission Values as a Function of Model Year (Log Scale) – TRUCK



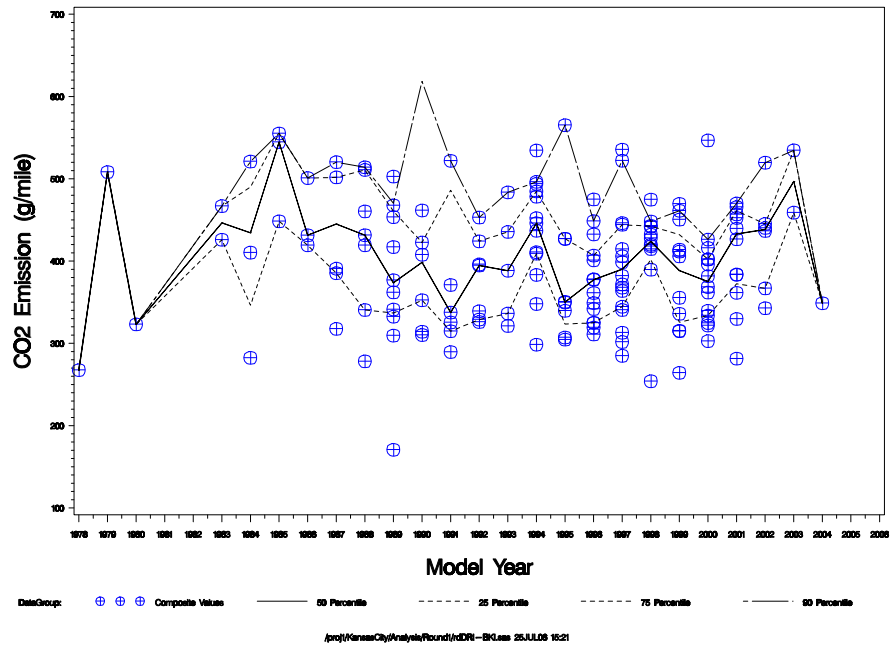
Composite Emission Values as a Function of Model Year (Linear Scale) – TRUCK



Composite Emission Values as a Function of Model Year (Log Scale) – CAR



Composite Emission Values as a Function of Model Year (Linear Scale) – CAR



Composite Emission Values as a Function of Model Year (Log Scale) – TRUCK

