

Kansas City PM Characterization Study

Final Report

Appendix G

Other Round 1 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)

Prepared for EPA by
Eastern Research Group, Incorporated
Austin, TX

Bevilacqua-Knight Incorporated
Oakland, CA

NuStats LLC
Austin, TX

Desert Research Institute
Reno, NV

EPA Contract No. GS 10F-0036K

October 27, 2006
Revised April 2008 by EPA staff



United States
Environmental Protection
Agency

EPA420-R-08-009
April 2008

Weighted Emissions and Fuel Economy

Weighted Regulated Emissions and Fuel Economy for the Round 2 Kansas City Test Fleet.

RUN #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84393	1999 Chrysler 300M	90240	3500	5.8	0.34	0.30	3.19	451.26	18.82
84394	2000 Honda Odyssey	74601	4500	9.6	0.31	0.30	5.25	532.05	15.90
84396	1995 Ford Escort	106996	2750	5.6	0.30	1.39	8.74	387.69	21.40
84397	1975 Chevrolet Silverado 20 PU	2893	4000	13.9	4.96	3.55	73.86	563.04	12.40
84398	2001 Honda Accord	62350	3500	7.8	0.20	0.16	3.07	404.32	21.01
84399	1997 Honda Accord	82926	3000	4.9	0.25	0.29	6.72	401.31	20.86
84401	1998 Plymouth Voyager	168876	4000	7.0	0.34	0.96	4.57	497.11	17.03
84402	1991 Honda Civic	220022	2500	6.5	1.02	2.62	17.42	339.37	23.27
84403	2000 Dodge Caravan	85198	3500	7.2	0.61	0.33	5.21	475.94	17.71
84404	1997 Dodge Caravan	96455	3500	7.2	0.58	0.83	5.83	520.99	16.18
84406	1995 Toyota Corolla	107983	2500	6.0	0.79	0.99	9.47	358.70	22.89
84407	1989 Pontiac GrandAm	123575	3000	5.9	2.90	4.59	24.18	368.82	20.71
84408	2002 Mercury Sable	29501	3500	6.8	0.38	0.23	0.86	488.23	17.54
84409	1999 Chevrolet Malibu	79925	3500	5.8	0.50	1.15	8.38	434.57	19.16
84411	1996 Saturn SC	78346	2500	6.0	0.53	0.84	5.42	385.40	21.76
84412	1996 Honda Civic	140479	2500	6.9	0.56	0.47	9.62	307.12	26.57
84413	1979 Ford F250 PU	5797	3500	10.5	1.88	1.42	34.23	708.01	11.21
84414	2003 Chevrolet Impala	11340	3500	2.9	0.12	0.11	1.60	451.14	18.96
84415	1999 Dodge Durango	95999	5000	16.9	0.33	1.63	8.13	717.79	11.77
84416	1998 Honda Civic	118218	2500	5.1	0.19	0.08	6.60	282.54	29.33
84418	1997 Pontiac Grand Am	58100	3000	3.8	0.24	0.90	3.92	439.87	19.27
84419	1998 Chevrolet Lumina	79187	3500	5.5	0.45	0.52	6.90	443.85	18.87
84420	2000 Honda Accord	84180	3500	7.5	0.25	0.36	5.16	381.06	22.07
84421	2000 Saturn Sedan	51721	2750	4.0	0.24	0.41	2.29	364.46	23.34
84422	1998 Jeep Cherokee	137053	3500	11.8	1.50	5.27	16.91	524.61	15.49

RUN #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84424	1995 Ford Explorer	162634	4500	11.5	0.24	2.39	4.04	582.51	14.60
84425	1995 Jeep Grand Cherokee Laredo	179121	4000	13.1	2.23	5.50	16.13	535.87	15.15
84426	2001 Saturn Sedan	44251	2750	3.7	0.22	0.10	6.53	307.26	27.05
84427	2001 Mitsubishi Galant	51764	2750	3.7	0.11	0.13	0.88	355.37	24.11
84428	1998 Chevrolet Malibu	107047	3500	5.9	0.38	0.72	5.57	420.56	20.00
84430	1990 Dodge Spirit	93661	3000	8.2	0.63	1.75	16.22	391.82	20.53
84431	1991 Mercury Grand Marquis S/W	19292	4000	10.3	1.15	1.36	12.66	512.73	16.05
84432	1999 Saturn Sedan	98565	2500	5.5	0.41	0.29	2.92	301.79	27.98
84433	1997 Jeep Wrangler	97532	3500	16.1	0.28	0.32	3.62	489.05	17.37
84436	1995 Chevrolet S10 PU	124976	3500	10.8	0.37	0.64	9.30	494.16	16.88
84437	1994 Toyota Camry	131874	3500	7.2	0.30	0.34	2.59	432.41	19.68
84438	2001 Buick Century	33749	3500	5.3	0.11	0.10	2.14	440.98	19.36
84439	1995 Pontiac Bonneville	168145	3500	5.3	0.39	1.64	5.67	465.18	18.11
84440	1995 Buick Park Avenue	144956	4000	7.2	0.36	1.10	5.39	496.96	16.99
84442	1994 Toyota Camry	131894	3500	7.2	0.30	0.35	2.63	473.49	17.99
84443	1991 Geo Prizm	132326	2500	7.4	0.60	1.94	6.63	333.20	24.92
84444	2003 Chevrolet Tracker	29519	3000	12.7	0.31	0.20	1.20	451.84	18.93
84445	2001 Saturn Sedan	67290	3000	6.4	0.24	0.24	2.18	425.97	20.01
84446	2000 Toyota Sienna	137493	4000	6.5	0.76	0.63	5.18	512.24	16.47
84448	1999 Plymouth Voyager	79230	4000	6.4	0.44	0.41	6.22	524.29	16.08
84449	1994 Buick Regal	92177	3500	5.6	0.44	1.14	7.93	475.53	17.59
84451	1994 Buick Regal	92214	3500	5.6	0.40	1.25	7.13	463.18	18.10
84452	1995 Ford Taurus	139316	3500	6.5	0.27	1.10	6.27	461.35	18.24
84453	1995 Nissan Maxima	181395	3500	6.5	0.53	1.08	4.10	431.58	19.58
84455	1995 Ford Mustang	146289	3500	7.5	0.24	0.44	4.66	429.22	19.69
84456	1993 Pontiac Grand Prix	177931	3500	5.0	1.46	1.54	25.72	490.92	16.07
84457	1995 Ford Crown Vic	179731	4000	8.5	0.49	2.03	6.97	493.93	17.00

RUN #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84458	1993 Ford Aerostar	147319	3500	11.1	0.69	1.31	16.85	491.60	16.55
84459	1992 Ford Aerostar	164560	3500	11.4	0.43	1.85	8.80	470.54	17.72
84462	1989 Plymouth Voyager	145307	3500	7.6	3.33	1.16	99.70	393.33	15.36
84463	1995 Ford Contour	104083	3000	5.0	0.25	0.77	7.56	367.51	22.64
84464	1994 Dodge Intrepid	145950	3500	5.1	0.61	0.89	5.95	447.10	18.78
84465	1994 Chevrolet Lumina APV	124172	4000	8.9	0.23	0.92	3.34	525.91	16.19
84467	1988 Ford Ranger PU	77528	3500	10.2	1.62	1.82	17.68	361.70	21.82
84468	1994 Chevrolet Lumina APV	124200	4000	8.9	0.23	0.78	3.54	500.24	16.99
84469	1989 Dodge Caravan	162878	3500	7.6	1.39	2.59	15.30	443.27	18.25
84470	1973 Mercedes 280 SE	86134	4000	11.4	16.18	2.14	212.80	518.00	9.54
84472	1977 Chevrolet Monte Carlo	36999	4000	11.6	4.28	2.04	59.50	492.55	14.37
84473	1996 Ford Explorer	109593	4500	11.8	0.19	0.83	3.18	577.33	14.77
84474	1988 Honda Civic	207265	2250	6.4	1.08	1.23	10.66	269.45	29.73
84475	1986 Ford Tempo	70396	2500	6.9	1.61	0.85	31.43	400.69	18.92
84477	1989 Dodge Ram 50	133981	3500	15.0	1.50	1.81	58.74	423.59	16.54
84479	1996 Dodge Caravan	118369	4000	7.2	0.39	0.77	5.40	495.16	17.05
84482	1979 Buick Lasabre	40364	3500	10.5	1.11	6.99	12.85	512.47	16.06
84483	1996 Dodge Neon	79848	2500	7.2	0.38	0.41	4.00	353.76	23.83
84484	1979 Buick Lesabre	40385	3500	10.5	1.05	7.08	12.37	509.20	16.18
84485	1991 Cadillac Fleetwood	97124	4000	6.9	1.10	1.03	25.17	573.71	13.96
84487	1992 Mazda B2200 PU	101090	3000	10.7	0.96	2.87	46.03	422.81	17.28
84488	1995 Buick Lesabre	126036	3500	7.1	0.19	0.85	3.01	473.81	17.97
84489	1987 Toyota PU	232098	2750	9.6	0.67	3.12	3.14	386.87	21.85
84490	1991 Cadillac Fleetwood	97144	4000	6.9	0.97	1.02	25.02	558.72	14.32
84492	1984 Chevy C-10 Silverado	82259	4000	15.2	1.46	1.64	21.02	547.12	14.72
84493	2004 Ford Freestar Minivan	14714	4500	10.0	0.06	0.03	0.51	464.40	18.50
84494	1997 Ford Ranger PU	118470	3500	10.9	0.22	1.20	4.63	376.85	22.37

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		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84495	1996 GMC Sonoma PU	51863	3000	9.2	0.32	0.52	5.61	364.50	23.00
84497	1995 Toyota 4 Runner	85898	4000	12.9	0.37	0.56	7.47	568.66	14.80
84498	2001 Toyota Sienna	59734	4000	10.0	0.28	0.42	3.33	472.34	17.99
84499	1995 Acura Integra	80579	2750	7.2	0.47	0.32	8.94	349.67	23.57
84500	1998 Nissan Frontier PU	112521	3500	11.0	0.53	1.90	6.10	411.04	20.39
84502	1996 Chrysler Concorde	111502	3500	7.7	0.45	0.49	3.86	529.94	16.02
84503	2002 Ford Taurus	26406	4000	8.0	0.11	0.20	0.77	478.12	17.95
84504	2000 Chrysler Concorde	65330	3000	11.3	0.38	0.38	2.82	436.22	19.48
84505	1993 Dodge Intrepid	210298	3500	6.8	0.62	1.70	6.65	441.11	18.98
84508	1992 Honda Civic	124705	2250	4.6	0.47	0.59	11.66	274.72	29.23
84509	1992 Chevrolet Astrovan	217165	4000	12.5	2.13	3.50	17.45	518.77	15.57
84510	1994 Chevrolet Suburban	187410	5500	10.8	2.75	3.76	31.84	628.93	12.52
84512	1982 Chevrolet Caprice	88587	4000	4.6	18.05	0.70	180.26	376.77	12.03
84514	2002 Chrysler Concorde	34231	3500	7.8	0.22	0.21	1.30	472.65	18.11
84515	1999 Dodge Stratus	108838	3000	5.5	0.33	0.71	8.40	405.03	20.53
84517	1998 Dodge Caravan	80989	4000	7.9	0.40	0.66	3.62	513.63	16.54
84518	1994 Buick Skylark	200811	3000	5.4	0.58	0.75	9.26	437.18	18.98
84519	1992 Dodge Caravan	213493	3500	8.0	1.13	3.20	11.23	467.29	17.62
84520	2001 Ford Taurus	47479	3500	6.8	0.13	0.18	1.07	475.69	18.02
84521	1997 Honda Accord	101888	3000	4.9	0.25	0.49	5.06	406.63	20.72
84522	1996 Chevrolet 1500 PU	46711	4000	12.2	0.29	0.41	2.89	506.94	16.80
84524	1995 Isuzu PU	87225	3000	12.0	0.41	1.27	6.62	352.20	23.66
84526	1991 Lincoln Towncar	188033	4000	7.1	0.79	1.20	9.29	508.24	16.39
84527	1995 Dodge Ram 1500 PU	93425	4000	15.0	0.66	0.55	10.27	654.32	12.80
84528	1994 Mercury Grand Marquis	130521	4000	10.7	0.61	1.59	8.85	528.16	15.83
84529	1993 Plymouth Sundance	84652	2750	6.3	1.10	1.47	20.93	387.47	20.31
84531	1992 Geo Tracker	48704	2750	14.5	0.73	1.72	22.10	353.40	22.05

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		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84532	2003 Pontiac Montana	49337	4500	10.1	0.21	0.26	3.84	509.28	16.68
84533	1999 Chevrolet Suburban	88900	5000	12.5	0.31	1.08	4.23	673.62	12.64
84534	1993 Subaru Legacy	114227	3500	9.0	0.58	0.71	5.24	414.02	20.30
84537	2000 Jeep Cherokee	88513	3500	12.5	0.30	0.74	4.49	535.46	15.84
84538	1998 Ford Ranger PU	48208	3500	11.7	0.14	1.11	2.79	512.19	16.65
84539	1996 Chevrolet Tahoe	69010	4500	12.5	0.61	0.76	7.53	592.89	14.19
84541	1996 Dodge Caravan	161280	4000	7.2	0.70	1.06	13.63	469.33	17.46
84542	1996 Dodge Caravan	161308	4000	7.2	0.75	1.09	14.93	481.07	16.98
84543	2000 Jeep Cherokee	88541	3500	12.5	0.24	0.76	4.07	536.32	15.84
84546	1999 Dodge Dakota PU	64155	3500	9.6	0.37	0.72	5.54	503.25	16.78
84547	1995 Toyota Corolla	103068	2750	6.0	0.39	0.42	3.77	306.40	27.46
84548	1995 Dodge Intrepid	138989	3500	5.9	0.47	0.63	3.77	429.21	19.72
84550	1988 Lincoln Continental	31667	4000	8.3	2.50	2.08	17.54	527.39	15.30
84551	2002 Isuzu Axiom	46363	4000	13.4	0.25	0.24	4.16	523.63	16.21
84552	2002 Oldsmobile Silhouette	61168	4000	9.2	0.17	0.20	3.27	485.60	17.52
84554	1992 Ford F50 PU	134791	4500	14.6	0.67	1.45	9.33	613.82	13.65
84556	2001 Chrysler Town & Country	75545	4500	8.4	0.27	0.84	4.15	495.20	17.13
84557	2000 Buick Park Avenue	67099	4000	6.6	0.21	0.34	2.07	504.83	16.92
84558	2001 Chevrolet S-10 PU	106236	4000	9.8	0.65	0.37	5.84	549.97	15.34
84562	2004 Dodge Dakota PU	8627	4000	12.6	0.10	0.10	0.78	505.30	16.98
84563	2003 Ford Ranger 4X4 PU	18757	3500	11.5	0.17	0.14	1.88	528.98	16.17
84564	1998 Dodge Caravan	127230	4000	7.9	0.27	0.68	3.47	485.11	17.52
84566	1995 Honda Odyssey	109044	3500	9.8	0.51	0.50	8.00	468.35	17.84
84567	1992 Cadillac Sedan De-Ville	155895	4000	6.9	12.49	0.40	247.44	402.09	10.38
84568	1999 Ford Ranger PU	126851	3500	9.0	0.62	1.40	9.17	393.04	21.03
84569	1995 Ford Taurus	203067	3500	5.4	0.30	0.89	6.38	431.84	19.44
84570	1994 Chevrolet S10 PU	63902	3000	9.8	0.33	0.49	9.14	394.01	21.03

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		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84572	1994 Mercury Topaz	41482	2750	7.0	0.42	1.10	8.04	409.75	20.32
84573	1993 Buick Park Avenue	74444	4000	6.1	0.22	1.01	3.09	521.44	16.34
84574	1993 Ford Taurus	39476	3500	5.5	0.35	0.89	7.84	417.99	19.95
84575	1994 Chevrolet Lumina	126825	3500	5.4	0.89	1.54	18.57	441.69	18.17
84577	1998 Ford Aerostar	0	4000	7.9	0.22	1.67	7.19	505.33	16.64
84580	2002 Chrysler Town & Country	84580	4500	11.1	0.19	0.61	3.16	513.29	16.59
84581	1995 Chevrolet Corsica	78767	3000	5.9	0.40	0.78	6.26	415.79	20.17
84582	1988 BMW 528e	287806	3500	10.7	2.08	1.37	24.52	378.95	20.31
84584	1995 Nissan PU	86705	3500	12.0	0.31	0.32	4.68	392.23	21.49
84585	1993 Ford Escort SW	99988	2750	6.6	0.15	1.83	3.98	324.07	26.02
84587	1996 Mercury Villager	166799	4000	7.9	0.64	1.12	4.87	488.31	17.29
84588	1978 Buick Regal	81379	4000	9.9	1.79	1.54	44.64	637.58	12.07
84589	2001 Saturn	56662	2750	6.1	0.14	0.17	1.49	306.50	27.83
84591	1993 Toyota 4Runner	178462	4000	12.9	0.36	1.64	7.15	552.38	15.24
84592	1979 Ford LTD	65850	4000	10.7	5.77	1.90	76.23	346.40	17.79
84593	1998 Honda Accord	75067	3000	4.0	0.13	0.16	3.31	370.68	22.88
84595	1988 Ford Escort	133085	2750	6.0	0.15	1.14	4.17	340.49	24.77
84596	1997 Ford Taurus	97601	3500	6.7	0.22	0.80	5.50	463.01	18.22
84597	1994 Pontiac Sunbird	145869	2750	5.2	0.87	0.46	17.65	355.20	22.32
84599	1998 Toyota Avalon	29575	3500	5.8	0.57	0.28	3.29	429.75	19.71
84600	1993 Ford Explorer	47980	4000	10.2	0.42	1.25	8.53	573.83	14.63
84601	1979 Buick Regal	5864	3500	11.8	4.54	2.81	61.35	481.09	14.55
84603	1979 Nissan Datsun 210 Wagon	47114	2500	9.8	2.85	3.36	13.43	311.23	25.24
84605	1977 Nissan 280Z	94782	3000	9.9	1.70	2.59	16.29	501.77	16.16
84608	1996 Nissan Quest	125651	4000	10.0	0.44	0.35	4.98	464.19	18.18
84609	1978 Buick Regal	64571	3500	10.8	3.64	2.94	45.12	490.61	15.03
84611	1989 Toyota Camry	168091	3500	8.4	0.43	1.54	6.12	448.77	18.72

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		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84612	2000 Ford Ranger PU	33680	3500	12.0	0.14	0.55	2.09	490.19	17.43
84613	1990 Oldsmobile Delta 88	185694	3500	6.8	3.12	1.14	12.82	528.23	15.43
84614	1978 Oldsmobile Delta 88	73729	4000	8.7	4.10	2.29	45.07	551.99	13.55
84616	1999 Plymouth Voyager	113389	4000	7.2	0.15	0.25	0.99	468.89	18.28
84617	1997 Chevrolet Suburban	145147	5500	11.2	0.34	1.08	4.94	620.41	13.68
84618	1992 Plymouth Voyager	154297	4000	7.5	0.66	4.05	19.71	449.67	17.83
84620	1992 Ford Ranger PU	19758	3500	11.3	2.76	3.11	21.51	418.54	18.68
84621	1992 Ford Ranger PU	13586	3500	11.1	0.51	1.15	7.47	453.47	18.44
84622	1999 Toyota Camry	64134	3500	6.4	0.47	0.43	4.09	397.33	21.24
84623	1989 Plymouth Acclaim	164203	3000	6.9	0.82	3.44	18.47	358.92	22.05
84626	1987 Dodge D100 PU	23200	3500	13.2	1.20	1.70	36.39	431.72	17.47
84627	1987 Ford F150 PU	410	4000	10.4	14.92	3.78	69.16	552.85	12.17
84628	2002 Chevrolet Trailblazer	77758	4500	10.0	0.41	0.31	4.76	585.30	14.49
84629	1996 Acura TL2.5	117642	3500	8.1	0.40	0.17	6.73	422.92	19.80
84630	1989 Honda Accord	139963	2750	6.0	1.14	0.51	29.39	372.77	20.38
84632	1987 Ford F150 PU	428	4000	13.9	15.24	3.70	88.78	574.24	11.32
84633	1987 Volvo 740 Turbo	248178	3000	9.9	1.29	1.23	59.49	394.30	17.50
84634	1988 Plymouth Voyager	162874	4000	7.8	1.06	3.16	11.64	465.97	17.66
84635	1989 Ford Crown Vic	62847	3500	11.0	1.51	1.54	16.40	471.33	17.16
84637	1980 Oldsmobile Cutlass Supreme	79420	3500	10.5	3.79	3.91	69.56	467.34	14.63
84638	1996 Chrysler Town & Country	213656	4000	8.5	1.30	1.35	22.88	473.64	16.76
84639	1995 Chevrolet Cavalier	140500	2750	4.8	0.32	0.75	5.40	328.84	25.44
84640	1994 Ford Explorer	98974	4000	10.6	0.26	1.33	7.94	529.41	15.86
84642	1989 Dodge Spirit	139488	3000	8.4	0.54	1.50	19.26	395.15	20.16
84643	1987 Ford Escort	12845	2500	7.4	1.82	2.64	29.84	342.81	21.78
84644	2001 Nissan Pathfinder	66284	4000	15.3	0.21	0.36	3.18	530.67	16.05
84645	1993 Volvo 960	197094	3500	10.3	0.48	0.48	4.84	439.84	19.17

RUN #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84646	1988 Honda Accord	209194	2750	6.4	0.70	1.41	15.78	370.72	21.65
84648	1987 Dodge Dakota PU	112838	3500	10.6	1.10	1.73	22.31	518.99	15.44
84649	1995 GMC Sonoma PU	56578	3500	9.8	0.73	0.71	7.08	465.34	17.98
84650	1990 Chevrolet Lumina APV	136313	3500	8.1	0.60	1.55	11.29	457.83	18.03
84653	1977 Chevrolet C-20 PU	37697	4000	13.9	3.91	5.20	71.68	699.01	10.45
84655	1990 Buick Electra Park Avenue	169860	3500	6.3	0.39	1.28	4.83	473.98	17.83
84656	1990 Chevrolet Lumina APV	123632	3500	8.1	0.43	1.32	8.00	428.15	19.47
84658	1989 Chevrolet Astrovan	215908	3500	12.0	0.87	2.86	11.21	382.92	21.35
84659	1988 Chrysler Le Baron	117003	3000	8.3	1.74	2.73	31.37	422.16	18.05
84660	1988 Dodge Caravan	61439	3500	8.0	1.27	3.01	7.11	459.86	18.12
84661	1990 Buick Century	148959	3000	6.8	0.29	1.34	3.69	430.31	19.70
84662	1990 Cadillac Eldorado	185384	3500	6.2	2.18	5.03	41.55	522.94	14.47
84663	1989 Chevrolet Corsica	98999	3000	5.3	0.92	1.60	12.66	377.50	21.51
84665	1989 Toyota 4X4 PU	262316	3500	10.9	0.58	2.80	12.08	508.23	16.27
84666	1988 Ford F150 PU	14075	4000	14.6	1.07	2.91	12.56	603.30	13.74
84667	1982 Ford F250 PU	85513	3500	11.9	6.90	3.31	65.84	608.67	11.74
84668	1991 Oldsmobile Delta 88	139412	3500	7.0	0.17	1.37	1.94	461.19	18.52
84669	1990 Dodge Spirit	109931	3000	8.7	1.03	2.71	20.44	398.80	19.83
84670	1989 Mercury Topaz	6137	2750	6.6	0.70	1.25	14.16	389.90	20.78
84672	1983 Toyota Tercel	87900	2250	6.7	0.41	0.91	5.95	267.15	30.99
84673	1983 GMC Vandura	52728	4500	16.2	6.61	0.65	216.76	680.41	8.27
84674	1979 Pontiac Firebird	45370	4000	10.8	2.49	2.71	42.62	503.43	14.89
84675	1993 Ford Tempo	25053	2750	6.1	0.34	2.00	4.90	397.57	21.19
84676	1990 Ford Bronco	25202	4500	13.3	0.89	2.31	17.66	516.46	15.74
84677	1988 Buick Park Avenue	146833	3500	6.3	0.27	0.61	4.17	450.50	18.80
84679	1983 Toyota PU	97635	3000	9.9	1.20	1.37	14.49	343.11	23.29
84680	1973 Chevrolet PU	57484	4000	12.6	16.97	2.37	112.12	533.55	11.30

RUN #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84681	1993 Ford Tempo	25073	2750	6.1	0.31	2.10	4.10	402.94	20.98
84682	1990 Toyota Camry	138235	3500	9.0	2.40	0.90	46.46	437.65	16.62
84683	1990 Ford Ranger PU	72976	3500	11.1	1.04	2.87	12.93	405.99	20.04
84685	1988 Ford F150 PU	62947	4000	13.5	1.21	1.92	5.52	608.22	13.87
84686	1986 Ford F150 PU	94737	3500	12.5	3.26	3.92	18.29	441.90	17.91
84687	1976 Chevrolet El Camino	61809	4000	12.1	1.90	1.60	44.19	626.96	12.26
84688	1993 Ford Taurus	92978	3500	9.5	0.41	1.29	6.49	460.94	18.22
84689	1992 GMC Jimmy	90871	3500	9.5	0.26	0.67	6.79	309.46	26.82
84690	1989 Oldsmobile Cutlass Cierra	220970	3000	5.4	0.68	1.27	9.34	380.07	21.69
84692	1988 Buick Century	94555	3000	6.4	7.65	0.26	159.81	285.99	15.35
84693	1988 Ford F150 PU	97172	4000	14.6	1.01	1.92	15.65	545.57	15.02
84694	1983 Chevrolet C10 PU	98799	3500	14.0	1.92	4.45	20.78	495.45	16.12
84695	1989 Oldsmobile Cutlass Ciera	220989	3000	5.4	0.63	1.21	7.41	392.20	21.21
84696	1987 Toyota PU	169293	2750	9.6	3.74	3.61	25.34	392.74	19.38
84699	1985 Chevrolet Caprice	58223	3500	8.7	5.20	2.49	62.01	516.95	13.66
84700	1978 Ford PU	73447	4000	11.7	6.12	3.40	65.73	616.47	11.65
84701	1990 Ford F150 PU	38803	4000	13.5	0.50	2.22	3.40	395.97	21.37
84702	1989 Chevrolet G20 Van	27435	4000	16.2	1.27	1.69	12.63	590.26	14.02
84703	1987 Chevrolet Blazer	153398	3500	9.8	1.10	5.35	26.50	508.48	15.55
84705	1980 Chevrolet Malibu	31253	3500	9.5	2.26	0.79	75.66	488.70	14.01
84707	1973 Chevrolet Impala	94178	4000	11.4	2.75	2.13	38.88	676.81	11.53
84708	2003 Dodge Caravan	10200	4000	7.2	0.10	0.52	1.11	462.54	18.53
84709	1989 Ford Ranger PU	28864	3000	11.1	1.12	1.33	18.08	366.95	21.58
84710	1984 Chevrolet Monte Carlo	68810	3500	10.6	1.30	0.66	21.38	414.02	19.06
84712	1979 Chevrolet Nova	86117	3500	9.6	6.38	2.10	75.98	398.81	16.01
84713	1996 Chevrolet Blazer	94350	4000	10.7	0.36	0.61	6.19	510.93	16.50
84714	1994 Saturn SW	132333	2500	6.1	0.34	0.27	5.26	303.24	27.54

RUN #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84715	1988 Mazda B2200 PU	220307	3000	10.6	2.09	1.77	38.05	362.78	20.07
84719	1990 Oldsmobile Cutlass Supreme	85449	3500	4.5	0.32	1.13	6.95	436.29	19.21
84720	1989 Chevrolet 1500 PU	140678	4000	12.8	1.82	2.99	17.69	618.05	13.21
84722	1998 Ford Windstar	99476	4000	7.9	0.18	1.46	2.16	500.17	17.08
84723	1991 Chevrolet Cavalier	182349	2750	5.8	1.95	3.72	14.57	355.49	22.39
84724	1990 Oldsmobile Cutlass Ciera	171475	3000	5.4	0.53	1.51	6.44	410.41	20.39
84726	1990 Ford Aerostar	19648	3500	10.3	0.60	1.42	15.86	455.19	17.86
84727	1982 Ford Grenada	64654	3500	10.6	0.77	1.15	14.22	515.33	15.94
84728	2002 Ford Escape 2wd	36209	3500	7.5	0.14	0.14	0.67	445.87	19.24
84729	2001 Toyota Camry	46869	3500	6.7	0.18	0.29	2.88	389.04	21.84
84730	1995 Chevrolet S10 PU	75640	3500	9.8	1.04	0.58	9.79	481.29	17.22
84732	1979 Jeep CJ76	8518	3000	10.6	3.76	4.62	69.57	443.55	15.25
84733	1998 Buick Skylark	65464	3500	5.9	0.25	0.64	2.20	451.62	18.88
84734	1993 Plymouth Voyager	166916	4000	7.3	0.59	1.61	7.89	459.29	18.18
84735	1988 Honda Accord	209393	2750	6.4	0.52	0.94	12.21	338.33	23.97
84737	1984 Chevrolet Celebrity	64091	3000	6.7	0.26	0.90	10.68	379.58	21.67
84738	1976 Pontiac Gran Prix	60909	4500	10.7	4.63	2.19	145.70	617.79	10.00
84739	1998 Mazda Protoge	88569	2750	6.8	0.53	0.78	7.78	352.39	23.50
84740	1990 Buick Lesabre	107876	3500	6.8	0.57	0.86	8.18	491.03	17.02
84743	1999 Mazda Protoge	122968	2750	6.9	0.20	1.09	5.42	296.15	28.20
84745	1990 Honda Civic	133966	2250	4.6	0.66	1.98	12.64	278.81	28.63
84748	2002 Dodge Caravan	60790	4500	9.3	0.10	0.75	1.86	492.12	17.38
84749	2001 Toyota Sienna	80227	4000	9.4	0.13	0.25	1.66	430.95	19.84
84751	1998 Ford Escort	55309	2750	6.0	0.16	1.31	5.98	333.06	25.10
84752	1978 Ford F100 PU	58917	3500	12.2	0.45	1.52	2.59	247.09	34.09
84753	2003 Dodge Caravan	47649	4500	7.9	0.13	0.20	1.05	487.95	17.57
84754	2003 Chrysler Town & Country	20787	4500	8.9	0.08	0.34	0.51	483.28	17.77

RUN #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	HC	NOx	CO	CO2	Fuel Economy
		<i>Miles</i>	<i>Lbs</i>		<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>gm/mile</i>	<i>mpg</i>
84755	2002 Honda Odyssey	60753	4500	12.7	0.10	0.13	2.40	504.12	16.94
84757	2001 Jeep Grand Cherokee	90011	4000	11.7	0.19	0.46	1.52	499.68	17.12
84758	1979 Chevrolet C10 Beauville	84025	4000	14.6	3.20	1.54	53.92	628.05	11.91
84759	2005 Ford Focus	6701	3000	11.7	0.06	0.03	1.02	359.02	23.86
84760	2004 Ford Escape	10519	3500	10.4	0.10	0.06	1.04	456.46	18.78
84761	2004 Kia Sedona	16609	5000	10.7	0.09	0.07	1.05	532.36	16.11
84763	2003 Honda Odyssey	44752	4500	12.4	0.13	0.14	1.75	514.21	16.64
84765	1985 Chevrolet Impala	75914	4000	11.1	4.28	1.53	103.88	468.18	13.35
84766	2000 Dodge Caravan	93162	4000	10.0	0.14	0.35	1.49	490.98	17.43
84767	1998 Nissan Frontier PU	107615	3500	11.0	0.36	2.11	9.87	411.01	20.13
84768	1995 Ford F150 PU	147342	4500	11.6	0.70	1.38	3.20	580.36	14.65
84770	1995 Ford F250 PU	52586	4500	11.6	0.56	2.28	5.70	609.75	13.87
84771	1994 Chevrolet Astrovan	133318	4000	12.3	3.06	2.93	22.62	469.66	16.73
84772	1992 Dodge Caravan	143971	4000	7.0	0.49	2.51	6.82	472.29	17.77
84773	1998 Toyota 4Runner	115768	4000	11.7	0.18	0.59	1.66	479.71	17.83
84774	1995 Dodge Caravan	136837	4000	7.6	0.38	0.29	3.57	456.49	18.58
84775	1997 Chevrolet Suburban	137630	5000	10.8	1.19	2.59	12.19	619.22	13.41
84777	1987 Oldsmobile Cutlass	87020	3500	9.6	0.88	3.48	15.65	464.68	17.50

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		
84393	1	8.39	5.08	70.31	39.51	2.06	1.82	1252.15	758.15	22.65	1.19
84393	2	0.16	0.08	2.41	1.16	0.21	0.20	712.89	420.63	1.20	8.65
84393	3	0.05	0.04	4.14	1.38	0.49	0.35	1105.15	584.45	3.60	1.19
84393	A	0.58	0.34	6.07	3.17	0.33	0.30	768.10	449.54	2.48	11.04
84394	1	7.56	4.70	109.27	60.26	1.60	0.92	1461.93	851.64	79.98	1.14
84394	2	0.14	0.07	4.39	2.26	0.37	0.26	789.95	499.45	18.82	8.47
84394	3	0.08	0.06	7.65	2.92	0.87	0.37	1251.15	686.66	6.30	1.14
84394	A	0.51	0.31	9.95	5.26	0.47	0.30	855.25	530.00	21.09	10.74
84396	1	2.58	3.19	25.08	28.29	3.26	3.73	628.00	656.60	59.23	1.19
84396	2	0.13	0.12	8.77	7.68	1.21	1.24	351.21	364.62	8.26	8.63
84396	3	0.28	0.29	7.99	6.78	1.48	1.43	442.74	451.71	2.23	1.19
84396	A	0.27	0.30	9.56	8.69	1.34	1.38	371.92	385.82	10.49	11.01
84397	1	22.00	13.23	259.15	128.75	4.93	4.10	1342.98	860.53	212.62	1.21
84397	2	7.18	4.16	110.79	68.33	4.29	3.58	758.59	539.03	71.50	8.86
84397	3	16.12	8.78	191.20	98.88	3.67	2.61	1048.35	597.34	95.84	1.19
84397	A	8.56	4.94	123.99	73.51	4.28	3.54	808.69	559.58	80.42	11.26
84398	1	5.36	3.09	50.55	30.49	2.79	1.32	1431.06	736.07	34.25	1.20
84398	2	0.11	0.04	2.90	1.67	0.13	0.09	650.29	374.39	3.69	8.65
84398	3	0.03	0.02	1.32	0.52	0.11	0.10	1032.81	508.72	5.52	1.20
84398	A	0.38	0.20	5.30	3.11	0.27	0.16	717.85	402.69	5.41	11.05
84399	1	5.72	3.18	119.68	63.02	2.21	1.29	1264.16	668.49	8.85	1.19
84399	2	0.17	0.09	6.50	3.71	0.40	0.24	654.58	376.77	2.50	8.66
84399	3	0.12	0.07	4.58	2.03	0.34	0.17	1150.17	488.81	2.42	1.19
84399	A	0.46	0.25	12.26	6.68	0.49	0.29	720.62	399.66	2.82	11.05
84401	1	7.99	4.89	81.22	46.87	4.68	3.32	1419.41	823.17	36.31	1.17
84401	2	0.17	0.08	3.87	2.17	1.20	0.83	754.66	466.99	3.05	8.63
84401	3	0.43	0.22	8.54	3.62	1.30	0.82	1083.24	606.75	3.01	1.20
84401	A	0.59	0.34	8.18	4.57	1.39	0.95	811.75	495.01	4.75	11.00
84402	1	8.58	9.52	134.24	126.29	2.91	3.01	576.75	516.09	179.94	1.17
84402	2	0.66	0.52	14.09	11.17	2.78	2.55	357.68	322.40	12.28	8.62
84402	3	1.46	1.12	23.71	15.15	3.62	3.11	510.69	402.65	3.99	1.18
84402	A	1.12	1.02	20.92	17.36	2.85	2.61	379.47	337.87	20.31	10.98
84403	1	24.43	9.71	145.12	83.62	2.41	1.75	1403.08	800.46	97.40	1.19
84403	2	0.67	0.11	1.60	0.87	0.32	0.24	725.19	443.30	2.48	8.79
84403	3	0.75	0.20	6.03	2.27	0.65	0.45	1140.85	623.90	5.11	1.22
84403	A	1.90	0.60	9.31	5.20	0.45	0.33	789.19	474.11	7.52	11.20
84407	1	6.20	10.65	200.41	107.28	7.86	6.29	1091.31	616.01	469.83	1.25
84407	2	0.86	2.39	24.45	18.66	4.86	4.43	486.30	345.51	137.09	8.76
84407	3	2.62	3.28	96.83	29.52	7.34	5.17	1026.90	458.48	85.61	1.23
84407	A	1.27	2.90	39.00	24.18	5.20	4.58	557.01	367.97	151.32	11.25
84409	1	10.13	8.67	138.04	152.82	1.54	1.89	741.33	724.76	27.69	1.21
84409	2	0.08	0.04	0.42	0.28	0.94	1.15	406.54	407.18	3.25	8.69
84409	3	0.17	0.14	3.00	2.42	0.38	0.45	575.88	547.19	3.41	1.08
84409	A	0.61	0.50	7.85	8.41	0.94	1.15	434.76	432.62	4.54	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		
84411	1	8.62	7.88	43.71	39.69	3.42	4.23	742.03	732.21	206.29	1.11
84411	2	0.09	0.15	0.22	3.83	0.41	0.68	145.26	360.76	81.48	8.63
84411	3	0.00	0.14	0.17	0.84	0.00	0.43	4.92	434.97	18.29	1.17
84411	A	0.52	0.53	2.42	5.39	0.54	0.84	166.12	384.08	83.29	10.91
84412	1	3.06	6.07	81.68	77.85	1.14	1.27	489.68	441.33	0.69	1.17
84412	2	0.14	0.25	2.75	5.82	0.17	0.42	166.36	292.74	2.96	8.61
84412	3	0.00	0.42	0.19	6.63	0.00	0.52	3.97	375.46	6.58	1.17
84412	A	0.28	0.56	6.64	9.57	0.21	0.47	171.91	305.99	3.09	10.95
84413	1	1.99	13.86	23.60	278.20	0.87	1.04	624.26	1168.74	66.63	1.22
84413	2	1.35	1.16	26.86	21.00	1.45	1.35	635.34	665.04	154.58	8.83
84413	3	.	1.85	.	11.77	.	2.38	.	799.21	18.28	1.17
84413	A	.	1.87	.	33.86	.	1.40	.	700.36	140.91	11.22
84414	1	1.71	1.94	26.14	28.85	0.74	0.55	891.37	865.17	12.46	1.20
84414	2	0.01	0.02	0.14	0.10	0.16	0.08	415.96	415.58	1.90	8.74
84414	3	0.00	0.01	0.07	0.04	0.22	0.11	580.10	570.85	3.53	1.23
84414	A	0.09	0.12	1.48	1.59	0.20	0.11	452.20	449.79	2.56	11.17
84415	1	3.92	4.65	86.43	103.96	3.27	3.31	1186.71	1169.20	25.18	1.25
84415	2	0.06	0.07	2.92	2.49	1.41	1.57	650.24	672.41	28.77	8.76
84415	3	0.33	0.32	6.24	4.90	0.77	0.88	897.32	878.95	6.40	1.21
84415	A	0.29	0.33	7.68	8.11	1.47	1.62	696.66	713.39	27.03	11.22
84416	1	1.66	1.84	27.24	27.28	0.34	0.32	501.60	475.00	8.69	1.17
84416	2	0.11	0.11	6.45	5.64	0.09	0.07	304.03	265.67	3.42	8.67
84416	3	0.07	0.06	5.24	4.04	0.10	0.07	401.72	342.44	5.59	1.21
84416	A	0.19	0.19	7.44	6.63	0.10	0.08	321.06	281.73	3.84	11.04
84419	1	5.70	6.03	98.88	104.30	3.21	2.77	767.50	722.94	19.09	1.22
84419	2	0.14	0.12	1.46	1.45	0.45	0.39	442.53	417.81	3.34	8.73
84419	3	0.31	0.26	2.63	1.79	0.44	0.40	608.24	540.17	5.03	1.22
84419	A	0.44	0.44	6.61	6.88	0.60	0.52	470.93	442.39	4.29	11.17
84420	1	2.54	3.72	35.21	43.96	1.37	1.39	829.11	652.32	80.85	1.24
84420	2	0.06	0.06	3.69	3.02	0.35	0.31	433.93	356.70	13.85	8.76
84420	3	0.06	0.05	4.11	2.30	0.19	0.15	643.20	459.99	8.57	1.22
84420	A	0.19	0.25	5.40	5.15	0.39	0.35	469.59	379.66	17.05	11.22
84421	1	3.12	3.60	30.09	31.69	1.69	1.63	687.08	644.40	36.56	1.19
84421	2	0.06	0.05	0.74	0.56	0.36	0.34	365.98	340.05	2.42	8.68
84421	3	0.26	0.15	3.57	2.09	0.46	0.40	544.39	446.63	2.80	1.17
84421	A	0.23	0.24	2.45	2.28	0.43	0.41	394.82	363.08	4.21	11.04
84422	1	5.56	5.23	54.79	47.44	7.56	6.94	866.21	785.14	8.44	1.18
84422	2	1.33	1.18	16.63	14.88	5.57	5.10	516.94	499.61	19.90	8.76
84422	3	3.26	2.70	23.22	18.99	6.61	5.81	689.25	613.66	10.81	1.22
84422	A	1.69	1.50	19.07	16.83	5.74	5.25	547.06	522.20	18.68	11.16
84424	1	2.56	2.43	24.78	20.77	5.44	5.37	1111.12	1009.46	5.45	1.20
84424	2	0.11	0.09	2.79	2.54	2.22	2.16	555.81	546.49	14.81	8.67
84424	3	0.56	0.51	13.71	10.28	2.88	2.83	745.28	674.49	8.85	1.17
84424	A	0.27	0.24	4.69	4.02	2.43	2.37	597.83	579.49	13.91	11.05
84425	1	10.67	8.97	90.61	67.56	8.02	7.17	1052.84	841.12	90.72	1.25
84425	2	1.82	1.73	14.08	12.73	5.91	5.33	532.29	505.45	26.26	8.72

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		
84425	3	3.39	3.03	20.95	17.23	6.46	5.87	740.95	632.32	5.93	1.25
84425	A	2.40	2.21	18.67	16.01	6.07	5.47	574.97	532.63	28.28	11.22
84426	1	1.79	2.05	18.01	18.67	0.54	0.49	628.01	561.74	27.00	1.21
84426	2	0.12	0.13	6.40	6.19	0.09	0.07	319.75	285.95	5.68	8.74
84426	3	0.09	0.07	1.74	1.05	0.08	0.07	467.95	370.11	7.40	1.23
84426	A	0.20	0.22	6.68	6.48	0.11	0.10	346.19	306.34	6.91	11.19
84427	1	1.57	1.74	13.78	14.48	1.11	1.09	648.67	626.15	8.49	1.23
84427	2	0.01	0.02	0.19	0.09	0.08	0.07	352.97	331.64	1.03	8.74
84427	3	0.02	0.02	0.34	0.17	0.13	0.12	492.58	426.21	1.34	1.22
84427	A	0.10	0.11	0.92	0.86	0.14	0.13	378.39	353.87	1.45	11.19
84428	1	5.56	6.30	90.13	91.99	2.30	2.09	740.90	691.49	60.99	1.23
84428	2	0.05	0.05	0.74	0.65	0.72	0.64	401.43	394.45	15.18	8.73
84428	3	0.13	0.14	2.00	1.70	0.66	0.56	538.16	516.30	6.58	1.21
84428	A	0.35	0.38	5.61	5.57	0.80	0.71	429.14	418.70	17.01	11.17
84430	1	6.66	6.58	167.39	154.86	1.99	1.98	630.28	551.50	66.40	1.17
84430	2	0.45	0.29	12.60	8.37	1.78	1.74	426.45	374.24	22.18	8.63
84430	3	0.88	0.58	18.57	11.60	1.59	1.55	616.71	473.01	10.36	1.18
84430	A	0.80	0.63	20.97	16.13	1.78	1.74	449.98	390.15	23.64	10.98
84431	1	5.23	10.05	76.54	104.50	1.95	2.60	631.31	764.80	84.07	1.20
84431	2	0.49	0.65	4.75	8.05	1.20	1.29	465.89	483.16	25.88	8.72
84431	3	0.65	0.85	2.08	2.11	1.17	1.29	592.46	663.60	4.28	1.22
84431	A	0.86	1.15	10.00	12.64	1.25	1.36	487.00	510.38	27.39	11.13
84432	1	5.62	5.87	34.13	35.67	2.09	2.18	602.80	550.77	47.80	1.24
84432	2	0.11	0.10	1.30	1.07	0.20	0.16	313.54	281.24	4.27	8.76
84432	3	0.15	0.15	1.51	1.00	0.55	0.39	442.32	358.48	3.71	1.21
84432	A	0.41	0.41	3.05	2.91	0.32	0.29	337.72	300.92	6.55	11.20
84433	1	3.30	2.85	38.34	29.46	2.22	2.11	908.34	723.69	11.52	1.21
84433	2	0.12	0.12	2.96	2.27	0.22	0.19	503.29	465.12	30.18	8.68
84433	3	0.26	0.24	1.21	0.60	0.69	0.64	682.23	581.77	6.06	1.19
84433	A	0.30	0.28	4.68	3.58	0.35	0.32	537.00	486.68	27.54	11.07
84436	1	4.91	4.58	100.57	87.09	3.33	3.05	930.09	781.45	8.93	1.23
84436	2	0.10	0.10	4.44	4.43	0.58	0.48	502.46	464.92	3.72	8.78
84436	3	0.53	0.54	12.10	11.41	1.16	0.89	715.91	615.16	1.93	1.20
84436	A	0.38	0.36	10.11	9.28	0.77	0.64	540.07	491.97	3.87	11.22
84437	1	4.14	4.64	42.43	45.08	2.83	2.93	793.87	773.21	16.20	1.21
84437	2	0.05	0.05	0.38	0.22	0.20	0.19	400.99	403.06	1.28	8.72
84437	3	0.10	0.11	0.65	0.26	0.28	0.26	538.08	521.38	1.53	1.22
84437	A	0.27	0.30	2.61	2.58	0.35	0.34	431.28	430.76	2.08	11.15
84438	1	1.69	1.75	36.28	38.12	1.46	1.19	778.82	715.24	5.05	1.24
84438	2	0.02	0.02	0.20	0.10	0.05	0.04	439.89	412.78	2.56	8.71
84438	3	0.02	0.02	0.15	0.01	0.12	0.07	616.41	557.00	2.40	1.21
84438	A	0.11	0.11	2.10	2.13	0.13	0.10	469.97	439.08	2.68	11.16
84439	1	3.20	3.57	34.07	34.83	4.39	4.21	879.92	838.82	31.68	1.20
84439	2	0.17	0.18	4.38	3.99	1.59	1.53	443.14	431.64	6.31	8.72
84439	3	0.67	0.66	5.80	4.82	1.25	1.09	633.96	585.69	1.91	1.20
84439	A	0.37	0.39	6.03	5.65	1.71	1.63	479.21	463.43	7.32	11.12

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		
84442	1	4.34	4.84	43.94	46.57	2.89	2.94	845.02	848.69	17.69	1.20
84442	2	0.05	0.05	0.32	0.20	0.24	0.21	419.03	441.75	1.72	8.68
84442	3	0.11	0.13	0.55	0.34	0.26	0.24	561.62	570.64	1.45	1.19
84442	A	0.28	0.30	2.61	2.62	0.38	0.35	451.12	471.80	2.53	11.06
84443	1	4.81	6.06	48.61	52.08	3.02	2.79	514.86	521.76	77.41	1.21
84443	2	0.32	0.27	4.32	4.17	2.03	1.83	330.46	316.83	16.61	8.76
84443	3	0.73	0.68	4.73	3.15	3.07	2.60	447.61	380.36	5.16	1.19
84443	A	0.59	0.60	6.72	6.60	2.15	1.93	348.42	331.88	19.00	11.16
84444	1	4.03	5.13	15.16	16.47	0.64	0.65	753.94	769.61	36.18	1.24
84444	2	0.06	0.04	0.44	0.36	0.16	0.17	414.49	425.67	17.99	8.74
84444	3	0.01	0.02	0.11	-0.01	0.14	0.18	511.23	506.19	5.45	1.24
84444	A	0.27	0.31	1.21	1.19	0.19	0.20	439.68	449.71	18.07	11.22
84445	1	3.80	4.29	34.51	38.72	1.08	1.15	749.39	755.23	31.19	1.18
84445	2	0.08	0.02	0.64	0.20	0.06	0.19	241.22	398.93	1.68	8.75
84445	3	0.00	0.05	0.22	0.27	0.00	0.20	24.45	503.14	2.45	1.21
84445	A	0.26	0.24	2.37	2.18	0.11	0.24	252.55	424.38	3.24	11.14
84446	1	9.65	11.57	73.02	77.07	2.13	2.12	997.08	934.34	192.76	1.20
84446	2	0.30	0.14	1.22	1.10	0.58	0.48	496.38	473.24	22.60	8.70
84446	3	0.49	0.48	3.46	2.60	1.55	1.36	720.06	654.77	6.07	1.21
84446	A	0.80	0.76	5.09	5.17	0.73	0.62	537.87	509.89	30.30	11.11
84448	1	5.90	6.66	93.92	101.45	2.35	2.07	883.12	859.36	102.70	1.20
84448	2	0.13	0.09	0.98	0.87	0.33	0.31	503.30	492.13	19.31	8.69
84448	3	0.19	0.19	2.52	1.99	0.45	0.39	674.71	647.09	6.47	1.22
84448	A	0.44	0.44	5.98	6.21	0.44	0.41	535.31	522.17	22.75	11.11
84449	1	5.73	6.63	95.32	103.37	3.19	3.02	814.13	787.95	55.87	1.22
84449	2	0.13	0.08	2.85	2.36	1.03	1.01	463.57	445.89	8.11	8.73
84449	3	0.29	0.27	7.02	5.49	1.19	1.22	627.89	586.90	1.37	1.22
84449	A	0.44	0.44	8.05	7.91	1.15	1.13	493.77	473.77	10.15	11.17
84450	1	12.65	13.31	138.09	126.25	5.32	5.02	777.00	711.39	186.76	1.21
84450	2	2.70	2.43	24.05	22.00	5.22	4.68	423.43	398.59	12.06	8.72
84450	3	4.00	3.61	32.28	25.01	7.28	6.30	608.39	537.60	7.46	1.25
84450	A	3.30	3.09	30.51	27.69	5.37	4.81	454.71	424.96	20.88	11.18
84451	1	5.23	5.52	75.65	80.77	2.99	3.27	777.86	751.03	39.06	1.19
84451	2	0.10	0.10	3.33	2.85	1.03	1.10	452.31	435.12	2.84	8.68
84451	3	0.26	0.31	6.49	5.75	1.30	1.49	604.31	578.39	1.46	1.20
84451	A	0.38	0.40	7.35	7.10	1.15	1.24	480.06	461.47	4.62	11.08
84452	1	2.96	3.07	38.13	35.22	3.07	3.20	891.29	861.97	10.30	1.15
84452	2	0.12	0.11	5.05	4.61	0.92	0.97	437.66	428.62	6.23	8.70
84452	3	0.32	0.27	8.07	6.19	1.11	1.17	599.83	554.43	1.04	1.21
84452	A	0.28	0.27	6.99	6.26	1.04	1.09	472.58	459.17	6.07	11.07
84453	1	4.85	5.26	24.15	24.70	3.77	3.79	695.89	678.96	34.87	1.22
84453	2	0.19	0.24	2.33	2.65	0.76	0.90	353.58	408.55	5.19	8.70
84453	3	0.53	0.57	6.75	6.28	1.20	1.19	509.50	506.72	1.89	1.22
84453	A	0.46	0.53	3.80	4.07	0.95	1.07	382.63	429.73	6.53	11.15
84455	1	2.77	3.05	31.59	31.60	1.01	1.00	806.58	751.45	10.96	1.22
84455	2	0.06	0.06	3.54	3.07	0.41	0.40	406.08	399.89	1.29	8.84

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		
84455	3	0.37	0.34	5.43	3.98	0.49	0.47	590.94	535.62	1.83	1.22
84455	A	0.23	0.24	5.13	4.62	0.45	0.44	439.62	427.58	1.83	11.28
84456	1	16.58	11.66	175.39	119.76	5.18	4.57	1003.16	710.90	70.87	1.18
84456	2	1.19	0.70	30.82	19.54	1.34	1.35	555.14	466.17	36.65	8.66
84456	3	6.62	3.51	70.30	30.43	1.74	1.53	842.01	596.54	20.54	1.20
84456	A	2.36	1.46	41.02	25.46	1.57	1.53	598.07	487.81	37.30	11.03
84457	1	5.69	5.93	26.18	19.28	4.28	4.84	920.85	891.67	86.09	1.23
84457	2	0.17	0.15	8.75	6.05	1.48	1.80	457.77	458.35	19.08	8.71
84457	3	0.61	0.60	14.57	8.60	2.25	2.72	642.33	611.96	12.71	1.21
84457	A	0.49	0.49	10.07	6.93	1.68	2.02	494.92	492.17	22.22	11.15
84458	1	5.31	5.15	70.07	72.76	2.83	2.52	898.05	799.69	21.09	1.14
84458	2	0.41	0.40	14.21	14.05	1.23	1.16	476.51	462.23	21.19	8.67
84458	3	1.14	1.09	14.20	11.07	2.26	2.20	677.35	605.23	3.05	1.20
84458	A	0.71	0.68	17.01	16.79	1.38	1.30	511.47	489.03	19.93	11.02
84459	1	4.31	4.38	66.55	69.02	3.66	3.27	893.89	782.59	12.97	1.21
84459	2	0.14	0.13	5.40	4.89	1.80	1.66	466.42	443.56	4.46	8.72
84459	3	1.54	1.28	16.57	11.78	3.38	3.09	639.50	546.85	1.59	1.23
84459	A	0.45	0.43	9.34	8.73	2.01	1.84	500.59	468.54	4.70	11.16
84461	1	7.98	7.73	84.41	69.40	5.90	5.92	701.86	653.87	46.54	1.21
84461	2	2.46	2.22	17.97	15.05	5.49	4.94	404.78	382.08	2.98	8.72
84461	3	3.80	3.39	27.29	20.43	7.82	6.00	587.57	510.60	3.06	1.22
84461	A	2.85	2.59	22.12	18.28	5.67	5.07	433.21	405.38	5.26	11.16
84462	1	22.28	19.20	387.71	356.11	0.39	0.52	507.73	478.33	350.87	1.21
84462	2	2.62	2.51	89.08	90.28	1.09	1.07	371.45	373.72	21.90	8.69
84462	3	1.26	1.61	15.79	16.45	3.09	2.67	576.80	554.49	5.93	1.22
84462	A	3.56	3.32	99.70	99.11	1.19	1.15	393.09	391.90	38.05	11.12
84463	1	2.04	2.27	26.36	25.44	2.67	2.87	619.12	615.31	16.76	1.24
84463	2	0.12	0.10	8.09	6.39	0.53	0.64	355.14	344.76	112.62	8.76
84463	3	0.51	0.61	10.45	7.93	0.71	0.81	491.20	450.40	21.50	1.22
84463	A	0.25	0.25	9.23	7.51	0.66	0.77	378.72	366.52	101.18	11.22
84464	1	6.39	7.06	82.85	87.56	2.61	2.76	741.18	710.55	96.83	1.22
84464	2	0.22	0.18	1.39	0.98	0.68	0.72	444.39	421.62	31.12	8.70
84464	3	1.05	1.07	7.48	6.32	1.56	1.49	592.83	545.28	7.26	1.20
84464	A	0.61	0.61	6.11	5.93	0.84	0.88	470.42	445.46	32.94	11.12
84465	1	2.89	3.36	37.61	42.48	4.68	4.73	904.00	899.81	12.06	1.20
84465	2	0.04	0.03	1.12	0.85	0.67	0.70	473.37	492.16	213.26	8.70
84465	3	0.37	0.40	5.86	5.37	0.78	0.77	632.23	639.34	10.42	1.21
84465	A	0.21	0.23	3.35	3.32	0.88	0.92	506.96	523.56	188.71	11.11
84467	1	10.50	9.88	146.84	130.22	2.51	2.43	590.92	521.32	83.37	1.17
84467	2	1.49	1.04	14.71	11.48	1.74	1.74	386.36	344.11	21.02	8.56
84467	3	3.69	2.73	19.06	11.26	2.40	2.34	553.07	441.74	7.88	1.20
84467	A	2.11	1.61	21.89	17.60	1.83	1.81	408.71	360.11	23.32	10.93
84468	1	3.01	3.38	35.61	40.24	3.47	3.50	862.73	848.85	18.84	1.20
84468	2	0.04	0.03	1.44	1.15	0.58	0.63	452.81	468.40	4.61	8.65
84468	3	0.35	0.38	6.34	6.06	0.60	0.63	609.86	606.72	2.73	1.21
84468	A	0.22	0.23	3.57	3.54	0.73	0.78	485.25	498.02	5.22	11.06

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		
84469	1	11.69	12.01	152.16	146.60	2.78	2.82	686.62	634.85	702.22	1.20
84469	2	0.81	0.72	9.85	7.79	2.52	2.48	431.57	422.28	105.13	8.71
84469	3	1.63	1.70	15.49	10.60	3.68	3.64	570.00	534.99	140.33	1.22
84469	A	1.44	1.38	17.70	15.24	2.62	2.58	454.60	441.30	138.65	11.13
84470	1	112.93	30.11	607.87	475.60	1.23	1.21	915.30	742.04	946.09	1.26
84470	2	56.86	14.75	204.28	185.41	2.16	2.20	543.20	491.55	315.70	8.75
84470	3	79.73	22.74	373.01	319.11	1.73	1.38	664.02	552.76	73.61	1.23
84470	A	61.47	16.14	237.74	210.51	2.08	2.09	571.61	509.39	332.68	11.24
84472	1	67.47	20.31	512.79	377.33	1.29	0.83	783.58	617.52	936.92	1.36
84472	2	5.04	3.21	54.99	39.96	1.91	2.08	512.73	474.21	40.18	8.84
84472	3	5.85	4.22	62.71	38.24	2.42	2.27	738.91	575.25	37.68	1.24
84472	A	8.72	4.26	82.10	59.14	1.91	2.02	544.44	489.49	91.37	11.43
84473	1	2.50	2.69	28.33	26.89	3.79	3.80	1066.90	1003.41	21.99	1.21
84473	2	0.06	0.04	1.88	1.57	0.68	0.63	549.09	539.87	13.15	8.67
84473	3	0.25	0.20	6.95	5.45	1.03	1.05	745.52	686.98	7.48	1.20
84473	A	0.20	0.19	3.63	3.17	0.87	0.83	590.07	574.45	13.22	11.08
84474	1	6.21	5.33	66.09	46.77	2.81	2.46	489.19	383.51	76.22	1.17
84474	2	0.99	0.79	11.57	8.54	1.16	1.13	306.23	259.16	66.56	8.61
84474	3	1.91	1.57	15.82	10.17	1.95	1.55	408.17	307.58	19.83	1.17
84474	A	1.32	1.08	14.67	10.62	1.30	1.22	322.60	268.88	63.87	10.96
84475	1	9.09	10.00	158.89	146.84	2.99	3.09	670.09	650.93	172.56	1.18
84475	2	1.24	1.04	24.05	24.67	0.70	0.71	386.16	378.82	38.58	8.67
84475	3	2.73	2.62	35.98	30.10	0.95	0.93	501.54	464.19	11.36	1.20
84475	A	1.75	1.61	31.84	31.35	0.84	0.85	408.81	398.80	43.59	11.05
84477	1	8.78	9.77	185.06	183.74	4.84	4.16	683.71	616.84	321.05	1.18
84477	2	1.05	1.04	52.69	54.35	1.69	1.56	413.02	404.45	64.27	8.62
84477	3	0.93	0.95	16.36	13.74	3.58	2.99	587.39	491.80	17.90	1.19
84477	A	1.45	1.49	57.06	58.25	1.98	1.80	439.23	421.54	74.32	10.99
84479	1	3.82	4.18	49.13	50.06	3.12	2.97	818.71	784.73	14.58	1.20
84479	2	0.17	0.16	3.18	2.76	0.64	0.63	470.68	466.26	6.14	8.72
84479	3	0.40	0.45	5.94	5.63	0.84	0.83	618.49	608.30	26.34	1.22
84479	A	0.38	0.39	5.78	5.43	0.78	0.76	499.39	492.78	7.99	11.14
84480	1	7.81	8.20	85.63	75.59	6.61	6.15	766.18	717.55	49.90	1.20
84480	2	2.45	2.35	18.92	17.11	5.70	5.20	424.64	409.46	3.99	8.68
84480	3	3.98	3.66	28.17	20.85	7.61	6.71	620.07	550.38	4.83	1.18
84480	A	2.84	2.74	23.02	20.41	5.88	5.36	455.89	435.12	6.44	11.05
84482	1	10.27	11.31	135.97	134.87	5.26	5.01	766.75	773.53	106.11	1.25
84482	2	0.54	0.47	6.17	6.03	8.40	7.01	493.39	486.94	9.25	8.76
84482	3	1.16	1.19	3.57	3.07	9.72	8.05	665.38	599.72	4.31	1.21
84482	A	1.11	1.11	13.01	12.75	8.32	6.97	520.14	510.14	14.10	11.22
84483	1	4.97	5.27	34.80	33.96	2.11	2.06	653.24	585.31	27.05	1.20
84483	2	0.15	0.11	2.76	2.38	0.29	0.28	358.31	333.05	4.07	8.71
84483	3	0.16	0.14	3.02	1.91	0.90	0.86	530.83	422.25	0.41	1.23
84483	A	0.41	0.38	4.48	3.99	0.43	0.41	386.15	352.43	5.01	11.13
84484	1	10.13	11.15	142.62	142.06	5.39	5.39	807.61	831.30	110.15	1.19
84484	2	0.53	0.46	5.78	5.49	8.58	7.12	483.53	482.37	3.19	8.75

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		
84484	3	1.06	0.97	4.96	3.96	8.76	7.40	633.30	574.59	2.80	1.24
84484	A	1.06	1.04	12.85	12.39	8.43	7.05	511.04	506.80	8.66	11.18
84485	1	12.86	12.35	331.18	313.38	2.42	2.28	855.05	759.15	94.91	1.22
84485	2	0.56	0.42	10.90	8.87	0.91	0.89	590.32	545.67	16.73	8.70
84485	3	1.52	1.18	16.71	11.15	1.75	1.73	896.49	762.59	4.55	1.15
84485	A	1.28	1.10	28.15	25.09	1.04	1.02	624.86	571.32	20.05	11.07
84487	1	7.38	7.82	195.84	183.22	2.43	2.61	623.65	598.96	152.90	1.25
84487	2	0.67	0.59	45.26	40.47	2.67	2.72	407.97	400.62	15.83	8.73
84487	3	0.33	0.30	10.43	5.70	5.57	4.85	587.49	536.65	6.17	1.20
84487	A	1.01	0.96	50.98	45.73	2.86	2.86	432.14	420.65	22.53	11.18
84488	1	2.58	2.81	23.67	22.95	3.04	3.12	878.89	841.26	20.19	1.19
84488	2	0.04	0.03	2.19	1.71	0.65	0.70	448.71	440.89	1.63	8.70
84488	3	0.22	0.21	5.77	4.54	0.89	0.95	620.57	593.63	1.58	1.18
84488	A	0.19	0.19	3.56	3.00	0.79	0.84	482.94	472.03	2.58	11.08
84489	1	4.17	4.31	54.98	54.21	3.43	3.17	678.64	611.67	33.33	1.22
84489	2	0.34	0.31	0.59	0.29	3.43	3.21	386.98	363.72	14.95	8.75
84489	3	2.97	2.52	0.46	0.17	2.11	2.00	568.63	485.57	7.49	1.22
84489	A	0.73	0.67	3.44	3.12	3.34	3.12	414.93	385.26	15.40	11.19
84490	1	12.06	10.94	348.24	315.90	2.38	2.30	890.59	776.33	26.63	1.21
84490	2	0.51	0.39	10.86	8.98	0.85	0.88	572.17	529.38	2.62	8.68
84490	3	0.94	0.80	9.79	6.47	1.91	1.89	879.98	739.72	2.02	1.15
84490	A	1.13	0.97	28.26	24.95	1.00	1.02	609.41	556.44	3.84	11.04
84492	1	42.79	18.97	368.23	344.71	2.67	2.75	861.46	780.12	727.21	1.22
84492	2	0.59	0.46	3.94	3.03	1.64	1.57	551.05	519.30	16.06	8.77
84492	3	0.86	0.81	4.14	2.97	1.74	1.61	755.39	681.92	7.41	1.23
84492	A	2.83	1.46	23.16	20.95	1.70	1.63	581.85	544.35	52.72	11.21
84493	1	0.73	0.80	7.38	7.33	0.39	0.40	826.17	795.35	5.90	1.21
84493	2	0.01	0.02	0.25	0.14	0.01	0.01	440.14	435.35	0.74	8.74
84493	3	0.01	0.01	0.35	0.13	0.01	0.01	626.25	556.02	1.86	1.22
84493	A	0.05	0.06	0.63	0.51	0.03	0.03	473.60	462.63	1.09	11.18
84494	1	2.70	2.92	23.98	19.82	2.26	2.28	642.09	582.78	11.94	1.17
84494	2	0.06	0.07	4.11	3.71	1.16	1.13	376.53	358.76	2.20	8.64
84494	3	0.21	0.19	5.86	4.24	1.20	1.17	486.75	428.19	2.93	1.23
84494	A	0.21	0.22	5.27	4.58	1.22	1.19	398.22	375.23	2.75	11.04
84495	1	4.31	4.13	63.49	55.27	1.96	1.82	613.87	546.04	9.38	1.20
84495	2	0.16	0.11	3.95	2.86	0.47	0.45	368.06	346.86	1.70	8.64
84495	3	0.26	0.22	5.40	3.87	0.43	0.35	512.52	432.78	1.41	1.19
84495	A	0.38	0.32	7.18	5.67	0.55	0.52	390.95	363.23	2.08	11.04
84497	1	4.95	5.39	104.38	106.50	0.78	0.77	966.21	860.05	22.89	1.25
84497	2	0.09	0.07	3.04	1.71	0.58	0.52	560.51	541.69	26.36	8.79
84497	3	0.21	0.18	4.93	2.87	0.91	0.77	725.56	626.15	1.66	1.27
84497	A	0.36	0.37	8.60	7.42	0.61	0.55	593.97	564.85	24.40	11.31
84498	1	4.69	4.97	30.69	26.19	1.51	1.57	917.12	880.87	35.17	1.17
84498	2	0.07	0.02	2.77	2.06	0.37	0.35	455.35	437.88	9.21	8.66
84498	3	0.15	0.10	4.20	2.59	0.41	0.39	633.26	578.59	2.81	1.17
84498	A	0.32	0.28	4.33	3.33	0.43	0.42	491.62	470.13	10.10	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		
84499	1	5.04	6.07	70.97	79.61	1.32	1.42	574.41	553.36	18.17	1.21
84499	2	0.16	0.16	5.39	5.14	0.28	0.26	329.41	331.55	3.92	8.67
84499	3	0.13	0.15	3.76	2.68	0.27	0.24	430.52	401.81	3.74	1.23
84499	A	0.41	0.47	8.72	8.90	0.34	0.32	349.35	348.21	4.66	11.11
84500	1	3.23	3.56	23.89	22.58	4.99	4.08	683.41	636.43	24.22	1.24
84500	2	0.32	0.32	5.53	5.00	1.78	1.74	381.26	390.30	3.83	8.74
84500	3	0.80	0.90	7.87	6.76	2.10	2.09	434.99	471.26	2.42	1.22
84500	A	0.51	0.53	6.67	6.06	1.98	1.89	401.17	409.04	4.82	11.20
84503	1	1.54	1.58	4.58	3.72	1.42	1.63	850.46	815.70	7.38	1.22
84503	2	0.02	0.03	0.83	0.54	0.12	0.12	443.34	444.55	2.60	8.75
84503	3	0.05	0.06	1.47	1.13	0.17	0.19	629.14	624.86	1.87	1.18
84503	A	0.11	0.11	1.07	0.74	0.19	0.20	477.64	476.38	2.80	11.15
84504	1	3.51	3.93	22.09	22.21	2.32	2.15	731.36	708.03	17.27	1.18
84504	2	0.20	0.18	2.01	1.75	0.32	0.28	414.76	409.97	1.79	8.72
84504	3	0.19	0.20	2.48	1.98	0.38	0.34	577.70	553.07	-0.08	1.17
84504	A	0.37	0.38	3.07	2.82	0.42	0.38	442.28	434.87	2.46	11.07
84505	1	4.57	4.84	58.90	58.32	5.43	5.17	755.05	714.39	11.46	1.14
84505	2	0.34	0.33	4.58	3.62	1.45	1.44	437.09	416.43	9.00	8.68
84505	3	1.28	1.26	9.79	7.57	2.57	2.36	608.07	532.91	1.89	1.21
84505	A	0.62	0.62	7.69	6.63	1.73	1.69	465.15	439.47	8.63	11.03
84507	1	7.61	6.79	75.83	54.66	6.25	5.96	745.09	645.15	23.59	1.21
84507	2	2.43	2.17	16.17	13.51	5.69	4.98	411.29	377.84	1.06	8.70
84507	3	3.94	3.43	28.49	20.44	7.27	6.27	620.44	517.20	3.85	1.22
84507	A	2.80	2.51	20.14	16.15	5.83	5.12	443.27	401.66	2.44	11.13
84508	1	4.36	4.85	122.88	129.88	1.31	1.35	396.15	401.82	14.37	1.18
84508	2	0.24	0.22	5.33	5.22	0.56	0.55	249.92	261.52	2.11	8.65
84508	3	0.24	0.27	5.41	4.67	0.55	0.52	337.67	334.75	1.35	1.17
84508	A	0.45	0.47	11.38	11.61	0.60	0.59	263.38	273.72	2.69	11.00
84509	1	8.21	7.76	120.40	108.71	8.09	6.86	924.96	784.89	125.94	1.25
84509	2	1.94	1.73	13.44	11.90	3.75	3.26	550.65	492.42	8.01	8.72
84509	3	3.23	2.79	17.43	13.57	4.71	3.84	773.05	617.44	4.02	1.21
84509	A	2.37	2.13	19.49	17.24	4.05	3.49	586.33	516.86	14.08	11.18
84510	1	10.38	9.96	200.10	192.17	7.00	6.34	981.22	911.32	48.13	1.24
84510	2	2.51	2.22	24.45	22.14	3.87	3.58	612.21	594.65	22.37	8.77
84510	3	4.26	3.74	34.39	29.12	4.24	3.89	848.36	793.83	2.14	1.22
84510	A	3.04	2.74	34.42	31.65	4.06	3.75	648.26	625.32	22.33	11.23
84512	1	127.53	28.76	412.26	310.92	1.64	1.34	795.00	615.13	389.15	1.33
84512	2	68.55	16.45	210.88	169.91	0.60	0.64	403.10	354.10	177.78	8.70
84512	3	73.75	27.34	264.23	184.08	0.90	0.86	565.32	422.03	70.35	1.32
84512	A	72.24	17.97	226.14	179.00	0.68	0.70	437.15	374.06	181.76	11.34
84514	1	3.56	3.75	18.86	18.31	1.53	1.41	816.78	793.32	14.74	1.19
84514	2	0.11	0.02	0.52	0.31	0.19	0.14	450.40	443.60	3.32	8.60
84514	3	0.05	-0.02	0.74	0.36	0.14	0.10	579.55	568.85	2.41	1.18
84514	A	0.29	0.21	1.49	1.26	0.26	0.21	478.55	470.46	3.85	10.97
84515	1	4.39	4.52	56.29	54.64	2.88	2.55	810.04	664.20	38.50	1.23
84515	2	0.18	0.10	7.22	5.80	0.66	0.59	446.13	380.85	3.76	8.78

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		
84515	3	0.26	0.15	9.21	5.60	0.99	0.76	729.07	489.29	1.42	1.23
84515	A	0.41	0.33	9.98	8.38	0.80	0.71	485.14	403.43	5.43	11.23
84517	1	5.48	6.33	42.24	46.19	2.69	2.53	851.53	838.78	124.67	1.20
84517	2	0.11	0.06	1.29	1.15	0.60	0.56	477.64	483.29	17.14	8.72
84517	3	0.24	0.22	3.62	3.05	0.52	0.47	639.31	623.99	3.12	1.20
84517	A	0.40	0.40	3.58	3.62	0.70	0.65	508.30	511.52	21.76	11.13
84518	1	6.90	7.78	104.45	111.82	2.16	2.04	734.85	701.11	22.41	1.20
84518	2	0.22	0.13	4.29	3.38	0.66	0.67	415.32	413.07	1.42	8.71
84518	3	0.69	0.85	8.26	6.45	0.72	0.72	554.98	522.25	3.94	1.22
84518	A	0.60	0.58	9.81	9.26	0.74	0.75	441.86	435.76	2.69	11.13
84519	1	13.15	11.28	126.97	85.21	5.28	4.08	1014.21	698.30	129.25	1.20
84519	2	0.67	0.48	8.81	6.62	3.43	3.04	509.12	443.44	17.44	8.63
84519	3	1.92	1.67	19.16	13.13	5.58	4.40	768.87	566.62	13.15	1.17
84519	A	1.41	1.13	15.74	11.19	3.67	3.19	553.44	465.20	23.01	11.00
84520	1	1.65	1.75	7.57	7.71	0.79	0.83	919.02	866.40	15.22	1.22
84520	2	0.05	0.04	0.85	0.72	0.14	0.14	444.76	441.22	2.13	8.68
84520	3	0.05	0.05	0.75	0.48	0.19	0.17	619.04	589.70	0.09	1.22
84520	A	0.13	0.13	1.20	1.07	0.18	0.18	482.03	474.17	2.68	11.13
84521	1	3.01	3.46	34.16	35.48	2.82	2.97	694.79	693.07	14.39	1.19
84521	2	0.09	0.08	3.57	3.43	0.34	0.34	373.61	381.20	2.00	8.73
84521	3	0.10	0.10	3.01	2.83	0.42	0.41	519.64	490.01	1.39	1.21
84521	A	0.24	0.25	5.12	5.04	0.47	0.48	400.40	404.90	2.60	11.13
84522	1	4.21	4.35	42.17	39.29	2.29	2.32	928.65	861.85	10.50	1.24
84522	2	0.09	0.06	1.14	0.80	0.30	0.30	498.86	474.72	5.74	8.76
84522	3	0.13	0.11	1.85	1.05	0.39	0.41	701.36	616.20	2.10	1.21
84522	A	0.32	0.29	3.42	2.88	0.41	0.41	536.22	505.22	5.74	11.21
84524	1	5.09	5.91	93.99	100.53	2.04	2.14	511.12	513.99	30.01	1.27
84524	2	0.12	0.07	1.55	1.08	1.18	1.24	345.92	337.21	3.01	8.74
84524	3	0.41	0.38	3.72	2.30	0.98	1.01	446.62	402.72	-0.13	1.23
84524	A	0.41	0.41	6.75	6.58	1.22	1.27	361.99	351.43	4.26	11.23
84526	1	8.28	8.99	84.01	84.08	2.67	3.00	812.48	796.74	55.40	1.23
84526	2	0.29	0.26	5.24	4.84	0.95	1.05	474.28	477.19	53.65	8.82
84526	3	1.13	1.19	10.99	8.70	1.59	1.71	691.95	656.97	31.10	1.23
84526	A	0.77	0.79	9.82	9.29	1.08	1.20	507.29	506.58	52.17	11.28
84527	1	8.30	7.35	159.29	139.57	2.60	2.18	1259.81	980.73	30.69	1.24
84527	2	0.31	0.23	3.67	2.70	0.51	0.42	691.08	620.22	15.59	8.70
84527	3	1.18	0.85	10.77	6.23	1.15	0.98	1003.98	771.25	1.18	1.22
84527	A	0.80	0.65	12.57	10.28	0.67	0.55	743.67	650.11	15.39	11.15
84528	1	4.59	5.10	41.22	41.52	6.13	5.98	951.80	948.80	54.90	1.20
84528	2	0.36	0.30	8.97	6.83	1.23	1.33	490.58	492.34	143.40	8.71
84528	3	1.05	1.06	12.52	8.98	1.47	1.52	665.71	637.90	60.56	1.20
84528	A	0.63	0.61	10.91	8.79	1.50	1.58	526.88	526.18	133.10	11.11
84529	1	18.01	16.72	311.28	302.40	1.08	1.15	510.78	480.64	419.60	1.21
84529	2	0.48	0.22	6.27	5.25	1.55	1.46	373.17	374.49	38.97	8.77
84529	3	0.63	0.51	9.27	6.71	1.85	1.69	517.81	463.62	6.05	1.21
84529	A	1.41	1.10	22.32	20.87	1.55	1.46	390.26	386.18	56.52	11.19

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		
84531	1	7.73	8.61	154.71	168.00	1.95	2.00	479.90	498.79	68.05	1.20
84531	2	0.51	0.29	14.98	14.44	1.67	1.67	341.37	339.87	16.99	8.72
84531	3	0.41	0.37	10.98	8.55	1.89	1.95	427.92	394.55	2.14	1.21
84531	A	0.88	0.73	22.05	22.00	1.70	1.71	354.69	351.92	18.61	11.12
84532	1	2.88	3.31	49.53	58.48	1.36	1.47	750.69	794.84	10.93	1.27
84532	2	0.05	0.03	0.71	0.68	0.21	0.19	471.75	479.97	5.83	8.73
84532	3	0.07	0.06	0.88	0.77	0.22	0.21	656.16	622.19	1.61	1.22
84532	A	0.21	0.21	3.57	3.84	0.28	0.26	500.88	507.07	5.81	11.21
84533	1	3.21	3.22	44.66	41.13	4.42	4.03	1151.09	1069.26	11.87	1.22
84533	2	0.15	0.13	2.45	1.99	0.96	0.90	649.80	636.21	6.47	8.74
84533	3	0.55	0.45	6.84	4.22	1.10	1.00	898.13	796.18	2.28	1.21
84533	A	0.34	0.31	4.98	4.21	1.15	1.07	693.60	670.09	6.46	11.17
84534	1	6.92	7.57	46.18	46.99	2.22	2.16	694.21	693.88	37.99	1.24
84534	2	0.23	0.16	2.94	2.60	0.58	0.57	374.93	387.00	29.12	8.70
84534	3	0.39	0.42	6.57	5.78	1.44	1.27	529.56	511.81	8.24	1.22
84534	A	0.59	0.58	5.45	5.20	0.73	0.71	402.44	412.17	28.13	11.15
84536	1	8.04	7.93	82.15	69.75	6.30	5.38	758.84	688.07	48.30	1.22
84536	2	2.52	2.33	17.32	15.13	5.40	4.59	409.04	391.94	3.88	8.66
84536	3	3.99	3.59	28.41	20.91	6.82	5.21	590.62	515.45	2.49	1.21
84536	A	2.91	2.71	21.50	18.43	5.54	4.68	440.18	416.26	6.14	11.09
84537	1	2.59	2.40	38.94	31.96	2.29	2.14	1053.99	888.38	20.12	1.21
84537	2	0.18	0.19	3.89	3.09	0.71	0.64	544.25	502.30	2.26	8.71
84537	3	0.16	0.10	2.20	1.26	1.09	0.92	779.46	656.44	2.02	1.21
84537	A	0.30	0.30	5.61	4.48	0.82	0.73	587.41	533.31	3.18	11.13
84538	1	1.91	2.00	23.36	19.23	3.67	3.55	851.10	838.89	3.50	1.20
84538	2	0.04	0.03	2.44	1.83	1.00	0.99	468.85	482.43	0.93	8.71
84538	3	0.08	0.09	2.88	2.33	0.67	0.75	625.80	607.53	1.09	1.23
84538	A	0.14	0.14	3.56	2.77	1.11	1.10	499.99	509.84	1.07	11.14
84539	1	5.14	5.39	48.04	41.98	4.61	4.10	1023.53	940.51	27.43	1.21
84539	2	0.33	0.31	6.16	5.38	0.60	0.57	572.71	560.30	2.59	8.77
84539	3	1.04	0.90	11.86	8.40	0.60	0.55	812.04	706.00	3.59	1.16
84539	A	0.63	0.61	8.76	7.49	0.82	0.75	612.67	589.85	3.95	11.14
84541	1	5.02	5.12	60.81	55.70	4.52	3.60	941.56	818.08	64.91	1.20
84541	2	0.54	0.45	14.95	11.59	1.08	0.90	506.29	438.38	3.09	8.75
84541	3	0.71	0.62	9.68	7.14	1.45	1.15	696.98	567.13	3.64	1.25
84541	A	0.79	0.70	16.98	13.57	1.29	1.05	542.43	467.28	6.33	11.20
84542	1	4.22	4.52	43.34	42.21	4.14	4.08	851.99	830.68	48.34	1.20
84542	2	0.52	0.52	14.44	13.57	0.88	0.91	428.30	447.88	2.44	8.71
84542	3	0.76	0.78	11.63	9.91	0.99	1.04	603.23	604.11	3.63	1.21
84542	A	0.73	0.74	15.74	14.81	1.06	1.08	462.55	478.70	4.91	11.13
84543	1	1.86	1.76	30.53	23.14	2.46	2.25	1030.65	873.56	12.77	1.24
84543	2	0.15	0.15	3.93	3.09	0.73	0.65	545.36	504.02	3.58	8.78
84543	3	0.18	0.17	2.43	1.25	1.13	0.85	775.20	654.46	2.35	1.23
84543	A	0.24	0.24	5.25	4.03	0.85	0.75	587.66	534.29	3.98	11.25
84544	1	8.25	7.68	83.95	64.55	6.00	5.88	725.71	658.37	47.00	1.23
84544	2	2.46	2.29	18.37	15.56	5.49	4.98	404.19	388.53	5.28	8.74

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		
84544	3	4.04	3.66	32.66	23.39	7.37	6.43	599.19	532.41	5.65	1.21
84544	A	2.87	2.67	22.81	18.70	5.64	5.13	434.62	412.84	7.52	11.18
84546	1	3.86	3.64	48.23	38.92	3.42	3.23	802.76	706.48	8.20	1.20
84546	2	0.23	0.17	4.65	3.45	0.54	0.53	497.85	475.88	1.98	8.59
84546	3	0.42	0.33	9.77	6.11	1.27	1.12	769.13	658.71	7.85	1.21
84546	A	0.44	0.37	7.32	5.51	0.74	0.72	533.03	500.90	2.72	11.00
84547	1	3.69	4.73	33.96	35.99	1.88	1.97	524.58	520.34	40.26	1.21
84547	2	0.15	0.13	2.21	2.03	0.33	0.33	281.66	288.64	17.21	8.68
84547	3	0.25	0.25	2.16	1.55	0.45	0.41	355.02	352.02	6.38	1.21
84547	A	0.34	0.38	3.87	3.78	0.42	0.42	299.57	305.26	17.67	11.11
84548	1	3.40	3.69	30.29	30.37	1.88	1.83	710.42	695.01	9.46	1.22
84548	2	0.24	0.24	2.42	2.04	0.49	0.50	396.97	404.19	2.50	8.71
84548	3	0.83	0.87	6.71	5.67	1.37	1.32	552.27	516.11	2.04	1.20
84548	A	0.45	0.47	4.20	3.79	0.63	0.63	424.38	427.29	2.84	11.13
84550	1	11.03	11.13	94.84	77.88	6.84	6.87	861.48	849.30	125.34	1.16
84550	2	1.88	1.82	13.22	13.40	1.80	1.80	477.54	496.41	17.48	8.77
84550	3	4.80	4.79	28.53	25.88	2.03	1.98	654.54	649.15	8.67	1.24
84550	A	2.54	2.50	18.43	17.53	2.07	2.07	509.46	524.94	22.27	11.18
84551	1	3.44	3.84	36.05	39.26	1.05	1.14	957.85	917.08	16.49	1.24
84551	2	0.05	0.04	2.95	2.19	0.21	0.19	475.25	489.01	5.22	8.72
84551	3	0.03	0.04	1.95	1.55	0.12	0.10	597.73	616.42	2.68	1.23
84551	A	0.23	0.25	4.64	4.14	0.25	0.24	509.68	520.95	5.64	11.19
84552	1	2.54	2.88	54.01	59.17	1.80	1.69	859.71	837.67	8.72	1.19
84552	2	0.02	0.01	0.30	0.18	0.14	0.11	451.96	451.44	1.78	8.68
84552	3	0.05	0.04	0.52	0.52	0.28	0.21	665.01	625.67	0.35	1.21
84552	A	0.16	0.17	3.13	3.27	0.24	0.20	488.16	483.63	2.04	11.08
84554	1	7.34	7.12	115.03	99.78	3.22	3.27	1009.92	921.32	20.80	1.20
84554	2	0.33	0.24	4.08	3.74	1.36	1.36	605.10	583.27	14.30	8.66
84554	3	1.30	1.20	13.20	10.31	1.09	1.03	794.62	708.29	1.71	1.21
84554	A	0.76	0.67	10.46	9.22	1.44	1.44	639.27	609.71	13.76	11.08
84556	1	3.17	3.43	21.83	22.22	4.57	4.47	851.63	843.48	46.83	1.22
84556	2	0.09	0.08	3.20	3.00	0.60	0.61	446.84	461.77	2.32	8.68
84556	3	0.24	0.25	5.16	4.56	0.83	0.86	640.17	622.69	1.66	1.19
84556	A	0.27	0.27	4.32	4.12	0.83	0.83	481.60	493.01	4.63	11.09
84557	1	3.07	3.60	30.88	33.19	2.47	2.47	904.71	886.13	19.75	1.19
84557	2	0.04	0.03	0.49	0.36	0.24	0.21	474.89	469.17	1.80	8.62
84557	3	0.02	0.01	0.38	0.18	0.29	0.29	675.45	643.31	1.27	1.20
84557	A	0.20	0.21	2.07	2.06	0.36	0.34	511.55	503.02	2.70	11.01
84558	1	13.04	11.04	85.38	74.30	0.86	0.68	962.55	887.69	602.07	1.21
84558	2	0.28	0.07	2.30	2.07	0.36	0.34	528.73	513.90	4.99	8.71
84558	3	0.13	0.10	1.17	0.83	0.57	0.52	778.96	723.46	1.45	1.16
84558	A	0.96	0.65	6.70	5.77	0.40	0.37	569.08	547.54	36.01	11.08
84560	1	2.96	2.71	23.24	18.03	2.04	1.81	704.85	562.17	11.21	1.23
84560	2	0.17	0.11	2.99	1.86	0.33	0.24	425.31	326.13	6.10	8.72
84560	3	0.22	0.00	2.07	0.00	0.72	0.01	577.96	11.58	2.25	1.23
84560	A	0.32	0.24	4.01	2.59	0.45	0.31	450.99	316.54	6.10	11.18

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		
84562	1	1.59	1.51	13.87	12.98	0.11	0.09	908.30	823.33	7.66	1.23
84562	2	0.03	0.02	0.19	0.07	0.12	0.10	504.23	472.54	4.41	8.66
84562	3	0.04	0.05	0.52	0.27	0.13	0.09	748.38	642.19	1.63	1.20
84562	A	0.11	0.10	0.95	0.78	0.12	0.10	543.05	503.15	4.39	11.09
84563	1	2.02	2.14	27.83	24.64	0.36	0.35	952.18	939.33	5.37	1.20
84563	2	0.07	0.06	0.89	0.66	0.13	0.14	488.11	494.00	0.73	8.70
84563	3	0.02	0.02	0.34	0.13	0.02	0.02	657.52	636.44	0.00	1.21
84563	A	0.17	0.17	2.27	1.87	0.14	0.14	524.23	527.05	0.92	11.10
84564	1	3.52	4.03	41.92	45.70	3.15	2.79	804.52	782.75	37.02	1.21
84564	2	0.06	0.04	1.15	1.00	0.58	0.56	448.03	456.51	3.70	8.68
84564	3	0.23	0.22	3.37	2.68	0.56	0.55	599.57	591.76	3.63	1.22
84564	A	0.25	0.26	3.44	3.46	0.71	0.67	477.35	483.15	5.44	11.11
84566	1	5.31	6.24	83.69	91.65	2.05	2.21	716.85	725.92	108.75	1.18
84566	2	0.23	0.20	3.73	3.54	0.37	0.39	427.71	445.41	33.83	8.73
84566	3	0.24	0.29	2.81	2.18	0.49	0.50	560.31	536.46	20.53	1.20
84566	A	0.50	0.51	7.86	7.98	0.47	0.49	452.12	466.10	36.75	11.11
84567	1	30.55	28.73	607.13	529.63	0.41	0.54	742.90	668.03	245.13	1.23
84567	2	11.10	11.19	244.47	234.76	0.14	0.30	368.57	361.91	33.16	8.70
84567	3	16.33	15.88	198.05	174.65	1.50	1.55	737.60	680.91	30.53	1.19
84567	A	12.49	12.44	260.54	246.30	0.25	0.40	413.85	400.09	44.26	11.12
84568	1	3.62	3.58	30.58	25.77	2.18	2.33	703.73	620.77	15.70	1.11
84568	2	0.54	0.42	10.65	8.04	1.38	1.34	369.43	373.28	3.55	8.62
84568	3	1.24	0.99	13.45	9.74	1.50	1.35	571.06	464.04	3.00	1.20
84568	A	0.74	0.61	11.84	9.03	1.43	1.39	400.19	391.76	4.11	10.93
84569	1	2.80	3.02	32.76	30.02	2.67	2.63	801.17	754.91	20.19	1.22
84569	2	0.16	0.13	5.50	4.91	0.76	0.78	411.43	403.27	2.60	8.60
84569	3	0.38	0.35	8.34	6.82	0.92	0.88	596.53	524.58	0.15	1.20
84569	A	0.32	0.30	7.14	6.38	0.88	0.88	444.84	430.50	3.37	11.02
84570	1	2.86	2.38	61.32	45.97	2.60	2.25	760.44	614.90	4.00	1.22
84570	2	0.28	0.18	8.62	6.58	0.43	0.40	417.64	372.92	0.87	8.72
84570	3	0.85	0.61	19.75	12.74	0.36	0.32	588.23	465.00	0.41	1.21
84570	A	0.46	0.33	12.20	9.09	0.54	0.49	447.77	392.10	1.00	11.16
84572	1	4.19	4.97	82.40	91.53	1.60	1.56	593.15	580.45	12.11	1.23
84572	2	0.14	0.12	3.50	3.29	1.05	1.07	379.24	392.25	3.25	8.72
84572	3	0.60	0.62	4.37	3.56	1.03	1.03	482.58	478.15	2.07	1.21
84572	A	0.39	0.42	7.76	8.00	1.07	1.10	397.89	408.23	3.64	11.16
84573	1	3.11	3.31	29.44	29.34	3.36	3.09	935.53	893.59	38.72	1.24
84573	2	0.04	0.03	1.82	1.56	0.85	0.84	485.95	483.48	3.04	8.69
84573	3	0.19	0.18	2.95	2.09	1.65	1.54	731.56	686.40	4.21	1.19
84573	A	0.22	0.22	3.37	3.08	1.04	1.01	526.77	519.34	5.03	11.12
84574	1	3.68	3.92	62.46	60.96	2.21	2.05	716.35	692.76	4.65	1.19
84574	2	0.10	0.09	3.55	3.40	0.80	0.79	384.10	389.79	0.87	8.69
84574	3	0.89	0.92	24.16	23.55	1.36	1.29	562.87	544.31	0.58	1.22
84574	A	0.34	0.35	8.06	7.80	0.91	0.89	413.90	416.33	1.05	11.10
84575	1	9.47	10.65	211.00	212.85	2.31	2.22	687.15	651.82	58.49	1.22
84575	2	0.34	0.25	7.68	6.39	1.42	1.42	421.86	419.84	2.93	8.75

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		
84575	3	1.81	1.59	28.65	24.33	2.63	2.50	579.32	532.08	1.97	1.23
84575	A	0.92	0.89	19.86	18.51	1.55	1.54	446.92	439.91	5.78	11.19
84577	1	2.81	2.93	42.00	37.95	4.58	3.69	916.71	854.84	32.81	1.19
84577	2	0.06	0.06	6.12	5.40	1.88	1.50	482.23	471.28	4.65	8.68
84577	3	0.14	0.14	8.87	6.48	2.96	2.31	721.10	647.21	2.62	1.20
84577	A	0.21	0.22	8.18	7.16	2.10	1.67	521.50	503.33	5.97	11.07
84578	1	7.93	7.45	84.77	66.25	6.42	6.17	758.51	678.12	32.10	1.21
84578	2	2.57	2.33	18.67	15.86	5.26	4.98	414.82	392.47	3.74	8.65
84578	3	4.36	3.75	30.48	21.70	6.75	5.89	624.20	527.04	4.60	1.20
84578	A	2.97	2.70	22.94	18.92	5.42	5.10	447.29	416.83	5.29	11.06
84580	1	0.01	2.86	0.10	30.00	0.01	3.19	1.86	991.02	35.23	1.08
84580	2	0.00	0.05	0.00	1.65	0.00	0.46	0.00	474.85	8.10	8.79
84580	3	0.00	0.16	0.04	3.73	0.00	0.80	0.64	644.34	2.37	1.22
84580	A	0.00	0.19	0.01	3.12	0.00	0.61	0.13	510.78	8.98	11.08
84581	1	4.94	4.72	66.04	62.92	1.38	1.38	720.64	656.17	5.68	1.24
84581	2	0.18	0.12	3.18	2.58	0.77	0.76	400.54	391.25	0.66	8.76
84581	3	0.73	0.61	11.35	9.07	0.57	0.55	576.23	522.48	2.95	1.21
84581	A	0.47	0.40	7.08	6.24	0.79	0.78	429.74	414.46	1.09	11.21
84582	1	8.26	9.56	79.73	81.73	2.11	2.29	558.70	560.54	55.80	1.17
84582	2	1.68	1.58	23.43	21.50	1.42	1.34	359.04	361.22	13.05	8.55
84582	3	2.68	2.73	22.17	18.28	1.16	1.07	470.07	450.52	17.46	1.22
84582	A	2.09	2.07	26.27	24.39	1.44	1.37	377.35	377.87	15.57	10.94
84584	1	3.10	3.20	27.72	25.96	2.55	2.45	584.36	541.54	21.33	1.27
84584	2	0.15	0.14	3.94	3.44	0.22	0.19	371.94	374.03	5.09	8.77
84584	3	0.23	0.23	4.09	2.90	0.39	0.32	548.06	477.01	2.93	1.25
84584	A	0.32	0.31	5.25	4.62	0.36	0.32	395.96	390.46	5.82	11.29
84587	1	9.21	10.55	60.42	66.64	2.92	3.14	784.13	763.59	148.35	1.21
84587	2	0.20	0.09	1.55	1.33	0.92	0.98	444.82	463.00	4.89	8.70
84587	3	0.23	0.22	4.46	2.84	1.14	1.34	564.83	573.73	1.06	1.20
84587	A	0.68	0.64	4.86	4.85	1.04	1.12	471.10	486.39	12.14	11.11
84588	1	21.73	14.78	373.53	341.85	1.09	1.17	946.95	876.68	160.26	1.24
84588	2	1.19	0.97	30.81	27.78	1.50	1.52	620.93	607.26	11.49	8.76
84588	3	2.21	2.03	30.54	23.68	1.94	1.97	874.20	781.81	9.96	1.26
84588	A	2.35	1.78	49.00	44.23	1.51	1.53	656.38	634.10	19.30	11.26
84589	1	1.71	2.11	18.52	19.53	0.35	0.35	579.58	563.31	600.02	1.21
84589	2	0.04	0.03	0.59	0.53	0.17	0.16	282.08	286.20	1.77	8.78
84589	3	0.02	0.02	0.29	0.18	0.22	0.20	392.62	357.28	0.42	1.24
84589	A	0.12	0.14	1.51	1.50	0.18	0.17	305.59	305.68	32.80	11.23
84591	1	3.87	4.14	55.38	58.30	2.95	2.78	915.04	868.61	6.77	1.22
84591	2	0.14	0.13	5.04	4.23	1.66	1.55	511.62	522.03	24.37	8.70
84591	3	0.37	0.36	7.83	5.14	1.84	1.74	693.44	650.19	0.93	1.23
84591	A	0.36	0.36	7.94	7.16	1.74	1.63	546.21	549.47	21.79	11.15
84592	1	53.12	20.94	268.65	210.67	1.22	0.94	491.38	403.40	247.18	1.60
84592	2	9.30	5.12	78.11	73.38	2.27	1.86	362.04	335.32	74.48	10.54
84592	3	2.51	2.01	12.05	8.90	3.46	2.87	485.01	397.15	12.39	1.79
84592	A	11.23	5.76	83.51	75.85	2.31	1.89	379.45	344.28	79.12	13.93

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		
84593	1	1.82	2.09	28.86	29.80	1.29	1.23	680.45	622.05	22.17	1.20
84593	2	0.05	0.02	2.08	1.89	0.10	0.11	336.81	348.89	2.37	8.64
84593	3	0.05	0.04	2.17	1.18	0.03	0.05	486.95	432.70	1.99	1.20
84593	A	0.14	0.13	3.48	3.30	0.16	0.16	365.10	369.05	3.38	11.04
84595	1	2.06	2.22	26.85	26.82	2.75	2.83	613.66	596.83	12.88	1.20
84595	2	0.05	0.04	3.72	3.06	1.06	1.05	309.79	319.63	1.57	8.63
84595	3	0.03	0.04	1.31	0.80	0.81	0.85	387.34	399.50	1.10	1.19
84595	A	0.15	0.15	4.76	4.15	1.14	1.13	331.06	339.68	2.13	11.03
84596	1	2.61	2.76	43.96	44.56	2.58	2.43	798.00	740.10	1.67	1.21
84596	2	0.08	0.07	3.41	3.28	0.64	0.67	438.02	437.63	1.89	8.68
84596	3	0.32	0.26	4.70	3.33	1.12	1.14	591.70	542.37	0.77	1.21
84596	A	0.23	0.22	5.63	5.46	0.77	0.80	467.60	460.89	1.80	11.11
84597	1	5.71	6.17	109.37	114.25	1.65	1.70	622.76	576.68	17.74	1.21
84597	2	0.57	0.55	12.54	12.57	0.36	0.35	327.84	333.74	3.69	8.74
84597	3	1.07	0.92	10.35	7.96	0.88	0.91	507.79	445.78		1.21
84597	A	0.87	0.87	17.46	17.55	0.46	0.46	355.75	354.16		11.16
84599	1	8.45	10.00	47.73	51.64	1.59	1.58	811.42	792.13	87.70	1.19
84599	2	0.15	0.05	0.94	0.67	0.20	0.20	391.20	399.59	8.61	8.76
84599	3	0.11	0.11	0.84	0.44	0.35	0.39	531.64	516.90	2.20	1.22
84599	A	0.58	0.57	3.35	3.28	0.28	0.28	422.68	427.98	12.22	11.17
84600	1	5.30	5.64	78.56	75.34	2.40	2.29	986.52	893.41	57.31	1.21
84600	2	0.14	0.10	4.99	4.61	1.19	1.14	555.32	540.20	22.18	8.75
84600	3	0.55	0.54	10.69	7.51	1.74	1.65	794.00	710.69	5.49	1.23
84600	A	0.44	0.42	9.23	8.50	1.29	1.24	594.55	570.58	22.84	11.18
84601	1	17.07	15.53	209.68	154.87	3.46	3.08	899.42	721.70	180.28	1.19
84601	2	5.01	3.82	71.14	53.92	2.76	2.70	498.02	460.62	42.57	8.69
84601	3	6.56	5.26	125.44	84.79	4.17	3.72	654.91	522.33	17.76	1.23
84601	A	5.73	4.53	81.91	61.33	2.89	2.79	529.17	478.50	47.94	11.11
84603	1	6.29	6.34	108.98	118.91	0.89	1.04	527.42	519.99	32.32	1.15
84603	2	3.29	2.42	7.87	8.02	3.27	3.44	279.52	293.65	6.41	8.62
84603	3	8.08	5.81	6.04	4.78	3.07	3.55	373.22	351.12	2.66	1.19
84603	A	3.78	2.85	12.84	13.40	3.13	3.33	298.54	309.04	7.46	10.96
84605	1	18.20	14.82	204.08	152.45	1.57	1.95	796.86	669.45	148.40	1.14
84605	2	1.63	0.81	17.10	8.94	2.44	2.61	489.41	481.38	48.49	8.63
84605	3	4.84	3.50	25.38	9.39	2.17	2.43	705.33	596.36	12.12	1.19
84605	A	2.69	1.70	27.17	16.19	2.38	2.57	519.96	498.77	50.99	10.96
84606	1	9.23	9.35	96.47	79.62	5.91	5.62	748.72	679.46	51.20	1.18
84606	2	2.35	2.26	18.53	16.45	5.15	4.82	402.34	391.20	3.23	8.66
84606	3	3.96	3.58	31.44	21.77	6.88	5.96	602.65	510.53	3.62	1.21
84606	A	2.82	2.72	23.48	20.08	5.31	4.94	434.25	414.42	5.73	11.05
84609	1	24.39	16.28	158.74	99.24	2.87	2.69	934.84	676.56	100.22	1.25
84609	2	4.56	2.88	51.87	42.62	3.05	2.96	546.07	468.65	22.75	8.72
84609	3	5.46	3.46	42.26	28.83	3.14	2.61	871.73	593.44	2.79	1.19
84609	A	5.69	3.64	56.98	44.72	3.05	2.92	589.28	488.40	25.56	11.16
84611	1	5.33	6.63	70.55	83.29	3.43	3.27	727.76	727.69	39.63	1.21
84611	2	0.12	0.07	1.88	1.77	1.42	1.41	409.15	424.40	3.68	8.68

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		
84611	3	0.21	0.23	3.13	2.57	2.02	1.87	531.73	519.40	1.53	1.19
84611	A	0.40	0.43	5.58	6.11	1.57	1.54	434.32	446.87	5.42	11.08
84612	1	0.11	2.08	0.80	19.42	0.06	1.28	30.07	818.39	2.94	1.22
84612	2	0.03	0.03	1.27	1.20	0.24	0.53	377.18	459.70	0.56	8.81
84612	3	0.03	0.04	0.43	0.12	0.21	0.20	633.33	609.92	1.50	1.19
84612	A	0.03	0.14	1.19	2.08	0.23	0.55	376.53	488.62	0.75	11.22
84616	1	1.73	1.87	12.48	11.97	2.22	2.18	796.07	770.26	4.66	1.15
84616	2	0.03	0.05	0.41	0.26	0.13	0.13	427.68	440.01	0.78	8.60
84616	3	0.14	0.16	2.50	2.06	0.26	0.29	591.36	585.08	1.82	1.20
84616	A	0.13	0.15	1.17	0.98	0.25	0.25	457.91	466.89	1.05	10.96
84617	1	3.49	3.36	33.94	27.29	5.12	4.54	1057.26	909.02	16.83	1.25
84617	2	0.15	0.14	4.12	3.40	0.91	0.87	621.47	588.33	5.21	8.76
84617	3	0.52	0.46	9.81	6.84	1.12	1.01	954.93	769.02	2.80	1.20
84617	A	0.35	0.34	6.11	4.92	1.15	1.07	667.77	617.99	5.67	11.21
84618	1	7.08	3.49	182.52	83.66	7.52	5.75	1194.58	666.23	19.45	1.23
84618	2	0.53	0.48	14.64	15.92	3.24	3.92	506.80	424.82	5.71	8.76
84618	3	1.62	0.75	37.95	16.56	6.77	4.26	1269.70	573.42	3.82	1.17
84618	A	0.95	0.66	25.04	19.55	3.70	4.04	594.72	447.57	6.31	11.16
84620	1	14.94	9.09	105.74	52.98	1.63	2.67	960.70	676.29	17.56	1.09
84620	2	4.36	2.31	35.55	19.06	1.91	3.13	419.91	399.81	7.94	8.57
84620	3	9.63	3.87	86.84	28.34	3.35	2.92	881.15	442.65	3.00	1.24
84620	A	5.25	2.76	42.57	21.38	2.00	3.09	478.64	416.35	8.05	10.90
84621	1	5.31	5.33	86.34	87.42	1.88	1.74	739.44	675.55	8.18	1.15
84621	2	0.21	0.19	3.45	2.93	1.06	1.09	445.89	429.86	4.27	8.73
84621	3	1.55	1.18	12.03	7.28	1.40	1.34	678.75	564.03	5.67	1.19
84621	A	0.56	0.51	8.29	7.47	1.12	1.14	476.73	451.38	4.56	11.07
84622	1	12.22	6.63	87.56	38.97	3.29	2.10	1180.31	686.31	71.43	1.17
84622	2	0.19	0.13	2.14	2.17	0.42	0.33	528.80	372.11	4.00	8.64
84622	3	0.54	0.22	8.77	2.61	1.10	0.45	1213.62	479.37	6.44	1.18
84622	A	0.83	0.47	6.99	4.09	0.61	0.43	609.37	395.53	7.62	10.98
84623	1	15.87	8.30	396.59	198.86	4.80	3.12	891.39	501.67	155.11	1.21
84623	2	0.82	0.39	16.90	8.27	3.41	3.43	497.47	341.74	21.02	8.68
84623	3	1.54	0.64	31.04	10.23	7.26	3.67	1168.03	446.51	6.81	1.19
84623	A	1.66	0.82	37.82	18.40	3.75	3.43	564.77	357.33	27.09	11.08
84624	1	9.02	8.36	109.72	88.34	4.85	4.68	709.87	636.64	46.80	1.20
84624	2	2.44	2.16	20.53	17.89	4.74	4.28	394.42	372.95	1.55	8.77
84624	3	3.78	3.26	31.09	22.20	6.68	5.62	587.65	503.89	2.22	1.23
84624	A	2.87	2.56	25.89	21.85	4.88	4.40	424.38	395.84	3.93	11.21
84626	1	11.58	11.77	291.83	294.30	0.81	0.87	711.59	646.66	180.91	1.26
84626	2	0.43	0.43	19.03	19.64	1.89	1.69	431.17	414.83	11.17	8.69
84626	3	2.90	2.59	45.82	41.58	2.68	2.25	538.27	449.15	-0.49	1.20
84626	A	1.21	1.20	35.85	36.13	1.89	1.69	454.01	429.85	19.60	11.15
84627	1	93.36	31.68	265.84	206.90	3.50	3.77	837.52	662.71	199.52	1.17
84627	2	31.11	12.78	71.50	57.39	3.75	3.69	622.29	539.75	242.74	8.71
84627	3	62.25	27.95	139.19	106.19	3.87	4.10	688.57	554.90	125.74	1.26
84627	A	36.53	14.84	86.27	68.54	3.75	3.72	638.02	547.12	232.12	11.15

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		
84628	1	6.66	6.63	50.17	51.28	0.84	0.87	1032.95	990.97	64.23	1.24
84628	2	0.12	0.06	2.33	2.11	0.30	0.28	533.72	545.81	12.17	8.68
84628	3	0.05	0.06	2.75	1.91	0.25	0.24	767.50	723.54	6.74	1.23
84628	A	0.46	0.41	4.92	4.74	0.32	0.31	576.61	582.37	14.58	11.16
84629	1	5.32	6.03	61.44	68.37	1.55	1.49	765.56	731.11	21.38	1.05
84629	2	0.16	0.13	4.12	4.01	0.12	0.10	406.67	399.03	4.56	8.61
84629	3	0.04	0.04	0.67	0.44	0.12	0.10	536.47	492.35	1.93	1.21
84629	A	0.40	0.40	6.58	6.78	0.19	0.17	432.73	421.14	5.16	10.87
84630	1	11.41	12.54	225.28	225.01	0.54	0.67	505.54	476.63	44.11	1.20
84630	2	0.75	0.54	21.21	19.64	0.46	0.47	382.62	358.74	7.57	8.64
84630	3	0.25	0.20	5.82	3.87	1.03	0.89	542.21	452.28	23.06	1.20
84630	A	1.28	1.14	30.95	29.30	0.50	0.51	400.17	371.43	10.56	11.04
84632	1	95.50	31.43	289.21	227.16	3.11	3.23	776.72	632.48	165.03	1.21
84632	2	35.98	13.26	102.24	83.83	3.57	3.49	637.13	555.86	98.68	8.78
84632	3	57.42	27.71	56.74	36.39	6.24	5.90	863.28	673.25	57.43	1.15
84632	A	40.53	15.16	108.94	88.15	3.73	3.63	659.57	567.58	99.41	11.13
84633	1	5.88	5.14	141.42	120.40	1.73	1.69	685.05	542.73		1.28
84633	2	1.20	1.10	63.14	59.25	1.17	1.12	403.19	374.56		8.80
84633	3	0.80	0.65	13.28	8.42	2.43	2.20	629.00	496.36		1.24
84633	A	1.42	1.29	63.89	59.03	1.29	1.23	433.92	392.32		11.32
84634	1	8.61	9.62	89.41	86.27	4.56	3.99	772.92	698.27	158.66	1.18
84634	2	0.53	0.48	7.52	7.03	3.65	2.99	443.79	440.67	15.52	8.57
84634	3	2.65	2.07	17.98	13.02	4.70	4.43	635.43	585.95	18.72	1.18
84634	A	1.10	1.06	12.48	11.56	3.77	3.14	473.99	464.05	23.18	10.92
84635	1	8.25	8.35	110.37	94.56	3.48	3.68	779.87	733.45	206.47	1.26
84635	2	1.22	1.06	14.13	12.16	1.35	1.42	453.77	447.08	55.01	9.11
84635	3	2.30	2.08	14.17	10.53	1.28	1.36	601.50	550.24	94.86	1.36
84635	A	1.67	1.51	19.13	16.34	1.45	1.53	481.67	469.67	65.85	11.73
84637	1	26.33	21.72	527.52	438.92	1.87	1.40	577.17	514.47	1654.02	1.27
84637	2	2.83	2.69	48.44	49.11	4.14	3.98	443.87	454.28	65.06	8.89
84637	3	3.37	3.50	39.64	36.09	5.02	4.57	607.07	567.15	15.25	1.23
84637	A	4.13	3.78	73.58	69.22	4.08	3.89	462.42	465.32	146.94	11.39
84638	1	5.72	5.78	73.85	70.18	2.90	2.96	817.57	771.69	13.86	1.19
84638	2	1.11	1.01	21.47	20.25	1.18	1.25	437.21	445.23	2.00	8.63
84638	3	1.70	1.55	22.91	17.83	1.17	1.29	610.36	582.65	1.39	1.21
84638	A	1.39	1.29	24.27	22.69	1.27	1.34	468.83	471.90	2.57	11.03
84639	1	3.86	3.99	62.67	61.95	2.26	2.22	543.98	484.65	7.97	1.16
84639	2	0.13	0.09	3.00	2.17	0.58	0.62	337.34	313.92	1.44	8.51
84639	3	0.52	0.43	7.55	4.52	1.22	1.26	479.50	389.68	1.75	1.15
84639	A	0.35	0.32	6.37	5.41	0.71	0.75	357.61	327.89	1.80	10.82
84640	1	2.97	3.06	35.85	30.10	3.30	3.23	932.59	877.25	0.00	1.21
84640	2	0.10	0.08	7.58	6.41	1.20	1.21	495.62	497.82		8.74
84640	3	0.43	0.39	14.17	10.42	1.03	1.18	672.51	627.16		1.22
84640	A	0.27	0.26	9.53	7.92	1.30	1.32	531.04	526.67		11.17
84642	1	5.23	5.57	172.83	160.46	1.83	1.91	595.88	549.83	36.66	1.21
84642	2	0.34	0.25	13.50	11.43	1.54	1.47	402.35	378.73	4.06	8.63

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		
84642	3	0.47	0.32	15.00	9.12	1.44	1.38	601.61	466.65	4.00	1.18
84642	A	0.60	0.54	22.01	19.15	1.55	1.49	426.25	393.81	5.78	11.02
84643	1	10.12	10.40	176.30	161.76	2.19	2.19	519.12	467.52	459.38	1.13
84643	2	1.51	1.32	26.09	23.26	2.81	2.67	352.31	330.86	136.54	8.48
84643	3	2.08	1.93	21.21	15.91	2.76	2.51	469.79	390.90	35.88	1.14
84643	A	1.98	1.81	33.33	29.75	2.78	2.63	368.63	341.79	146.04	10.75
84644	1	2.95	3.02	24.80	26.62	1.81	1.62	857.67	784.30	16.88	1.26
84644	2	0.07	0.05	2.04	1.83	0.30	0.29	509.64	506.34	4.55	8.77
84644	3	0.04	0.03	2.39	1.87	0.23	0.25	664.07	607.94	2.12	1.22
84644	A	0.23	0.21	3.30	3.17	0.38	0.36	539.31	528.40	5.05	11.24
84645	1	7.58	7.98	79.86	75.85	0.84	1.13	740.25	691.16	23.98	1.23
84645	2	0.07	0.05	0.94	0.73	0.41	0.42	419.43	414.38	5.66	8.70
84645	3	0.19	0.17	3.21	2.14	0.74	0.73	594.85	545.17	1.74	1.19
84645	A	0.48	0.48	5.28	4.82	0.46	0.48	448.69	438.10	6.37	11.12
84646	1	6.95	6.07	142.28	116.08	1.98	1.97	636.11	507.63	15.14	1.16
84646	2	0.46	0.37	13.07	10.30	1.30	1.29	418.27	357.05	6.00	8.59
84646	3	1.07	0.89	16.20	10.01	2.41	2.46	537.75	419.88	3.13	1.21
84646	A	0.84	0.70	19.91	15.70	1.42	1.41	437.79	369.17	6.27	10.95
84648	1	7.05	7.08	75.60	69.45	2.56	2.94	825.05	750.31	43.39	1.21
84648	2	0.74	0.71	17.70	18.64	1.84	1.68	503.19	494.91	39.18	8.73
84648	3	1.27	1.38	31.87	29.78	1.28	1.17	654.29	594.15	6.85	1.24
84648	A	1.11	1.09	21.77	22.08	1.84	1.71	530.95	515.29	37.11	11.17
84649	1	13.35	11.55	127.95	93.66	2.21	1.98	917.93	660.42	26.99	1.21
84649	2	0.17	0.10	2.71	1.98	0.71	0.63	526.31	445.29	5.61	8.65
84649	3	0.79	0.48	9.65	5.40	0.92	0.73	743.76	541.82	2.06	1.21
84649	A	0.91	0.73	9.82	7.07	0.81	0.71	562.10	463.40	6.49	11.07
84650	1	8.01	7.32	137.75	117.17	3.95	4.09	770.78	686.16	33.90	1.18
84650	2	0.20	0.16	5.48	4.84	1.31	1.35	452.02	434.87	6.46	8.76
84650	3	1.47	1.29	18.59	14.61	2.29	2.20	648.79	553.00	3.21	1.20
84650	A	0.69	0.60	13.19	11.24	1.51	1.55	481.95	455.82	7.63	11.15
84651	1	9.77	9.58	101.18	82.64	5.13	5.48	766.92	691.08	71.62	1.18
84651	2	2.55	2.30	19.61	17.09	4.41	4.50	407.49	388.32	4.27	8.67
84651	3	4.16	3.66	32.27	23.05	5.90	5.65	599.09	513.51	5.51	1.20
84651	A	3.03	2.77	24.70	20.88	4.55	4.63	439.31	412.64	7.82	11.06
84653	1	18.19	15.05	471.03	424.59	1.85	2.00	927.10	827.81	595.95	1.25
84653	2	4.93	3.11	64.39	49.43	6.06	5.29	715.27	675.31	89.23	8.69
84653	3	7.18	5.34	111.37	77.11	5.66	5.17	875.32	742.87	14.56	1.20
84653	A	5.79	3.91	89.24	71.68	5.81	5.10	737.72	688.25	111.61	11.15
84655	1	3.88	4.16	30.28	29.73	4.65	4.66	860.07	794.85	20.72	1.22
84655	2	0.14	0.13	2.98	3.12	1.05	1.05	449.09	443.65	4.73	8.66
84655	3	0.78	0.77	7.84	6.82	1.59	1.58	644.25	589.76	1.48	1.19
84655	A	0.38	0.39	4.75	4.79	1.28	1.28	484.11	472.30	5.35	11.07
84656	1	6.62	5.76	103.25	77.32	3.35	3.58	777.61	658.59	26.59	1.17
84656	2	0.12	0.09	4.33	3.70	1.07	1.11	421.31	405.04	7.12	8.62
84656	3	0.72	0.69	13.75	10.43	2.30	2.22	597.50	518.71	3.26	1.24
84656	A	0.50	0.43	10.14	7.96	1.28	1.31	452.44	426.19	7.84	11.03

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		
84658	1	5.40	5.92	99.31	98.33	4.04	4.02	584.81	541.68	92.75	1.46
84658	2	0.55	0.52	6.83	5.67	2.83	2.69	379.61	363.62	1.30	9.29
84658	3	0.85	0.88	8.52	7.17	4.35	3.91	519.42	471.08	1.57	1.30
84658	A	0.85	0.86	12.34	11.18	3.00	2.85	401.29	381.53	6.65	12.05
84659	1	9.71	8.90	181.32	167.06	3.16	3.37	643.05	572.30	66.92	1.15
84659	2	2.71	1.36	29.98	24.59	3.03	2.71	409.89	401.52	12.81	8.67
84659	3	1.53	1.28	19.30	14.75	2.35	2.34	637.36	555.71	12.87	1.18
84659	A	2.98	1.73	36.83	31.08	2.99	2.72	437.14	420.67	15.53	11.00
84660	1	8.85	9.61	51.84	48.80	4.39	4.74	724.09	684.11	717.53	1.15
84660	2	0.81	0.70	5.22	4.44	2.69	2.80	442.51	438.16	127.94	8.64
84660	3	2.55	2.40	14.19	10.33	3.78	4.26	582.53	539.93	119.92	1.21
84660	A	1.34	1.27	8.20	7.09	2.85	3.00	466.47	457.67	157.13	10.99
84661	1	3.47	3.40	33.72	26.81	4.09	4.21	776.47	707.21	20.70	1.23
84661	2	0.09	0.06	2.41	1.92	1.10	1.13	417.05	403.95	3.17	8.75
84661	3	0.92	0.78	11.72	8.18	1.82	1.76	603.69	525.81	2.83	1.21
84661	A	0.32	0.29	4.71	3.67	1.31	1.34	448.87	428.46	4.07	11.18
84662	1	14.31	14.25	388.31	356.11	1.98	2.21	786.02	724.97	57.88	1.23
84662	2	1.69	1.35	26.38	23.49	5.32	5.00	527.26	496.81	17.84	8.65
84662	3	3.65	3.16	32.41	24.91	7.94	7.22	779.37	658.46	4.76	1.21
84662	A	2.49	2.17	45.92	41.43	5.32	5.01	558.34	520.33	19.07	11.09
84663	1	6.03	5.87	93.38	82.67	2.28	2.33	679.69	568.80	63.57	1.20
84663	2	0.76	0.56	12.60	8.80	1.48	1.52	414.57	360.32	19.97	8.70
84663	3	2.16	1.63	14.52	7.95	2.20	1.99	605.53	434.18	19.72	1.19
84663	A	1.13	0.91	16.97	12.60	1.57	1.60	441.54	376.29	22.22	11.10
84665	1	7.68	7.95	157.71	151.10	2.79	2.83	923.47	785.62	65.48	1.26
84665	2	0.19	0.13	4.38	3.87	2.80	2.74	511.27	482.71	7.22	8.78
84665	3	0.52	0.49	9.68	7.27	3.56	3.36	667.57	572.57	2.69	1.25
84665	A	0.61	0.58	12.99	12.07	2.86	2.79	544.58	505.47	10.04	11.29
84666	1	9.39	10.59	181.08	183.35	3.10	3.43	905.29	888.81	44.48	1.28
84666	2	0.48	0.42	1.95	1.86	2.90	2.91	557.76	571.10	11.30	8.74
84666	3	1.59	1.77	13.75	12.93	2.10	2.22	761.15	739.51	6.41	1.22
84666	A	1.04	1.07	12.48	12.56	2.85	2.89	590.71	600.24	12.77	11.24
84667	1	23.02	21.24	189.01	150.71	2.64	2.88	971.73	801.11	76.53	1.14
84667	2	6.33	5.55	57.10	56.99	3.36	3.34	605.79	592.25	9.29	8.68
84667	3	15.11	13.56	134.70	115.15	2.63	2.82	733.73	627.70	5.60	1.19
84667	A	7.77	6.88	69.05	65.68	3.27	3.29	632.92	605.14	12.39	11.02
84668	1	2.49	2.43	18.02	16.09	3.78	3.63	884.02	795.54	14.91	1.19
84668	2	0.04	0.03	1.31	1.10	1.31	1.22	450.90	429.65	1.75	8.70
84668	3	0.21	0.18	2.69	1.71	1.58	1.42	656.15	585.70	1.98	1.19
84668	A	0.17	0.17	2.26	1.92	1.46	1.36	487.41	459.26	2.45	11.08
84669	1	8.99	10.41	221.73	220.93	1.78	2.01	563.11	521.27	170.39	1.18
84669	2	0.83	0.51	12.15	9.11	2.64	2.77	409.18	384.34	20.56	8.70
84669	3	0.90	0.67	21.20	13.74	2.11	2.39	550.73	467.96	4.91	1.21
84669	A	1.25	1.03	23.53	20.32	2.56	2.70	426.87	397.18	27.15	11.09
84670	1	6.09	6.75	122.00	122.11	2.01	1.94	632.65	556.34	28.83	1.19
84670	2	0.44	0.34	9.64	8.26	1.13	1.16	404.00	372.57	10.04	8.63

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		
84670	3	0.67	0.60	8.32	6.73	1.88	1.80	578.96	462.87	3.51	1.20
84670	A	0.76	0.70	15.52	14.10	1.22	1.25	428.30	388.45	10.56	11.02
84672	1	4.74	4.94	42.04	35.50	1.19	1.32	453.51	383.35	14.98	1.19
84672	2	0.17	0.15	5.25	4.45	0.87	0.89	278.13	256.27	4.29	8.55
84672	3	0.32	0.30	3.57	2.02	0.84	0.88	385.78	299.32	5.15	1.21
84672	A	0.42	0.41	7.05	5.91	0.88	0.91	294.79	265.97	4.91	10.95
84673	1	36.22	21.42	660.09	483.62	0.76	0.44	994.63	891.61	1437.93	1.19
84673	2	12.07	5.88	303.38	209.21	2.83	0.60	664.26	644.25	0.00	8.34
84673	3	2.36	2.52	58.30	57.64	1.57	1.47	972.15	880.18	97.74	1.19
84673	A	12.67	6.47	305.06	213.11	2.63	0.65	703.78	674.27	83.99	10.72
84674	1	11.46	8.97	227.56	181.82	2.82	2.93	930.10	807.66	48.46	1.20
84674	2	2.63	2.04	36.46	33.78	2.52	2.65	504.89	471.11	6.73	8.62
84674	3	4.09	3.26	64.05	45.88	2.94	3.06	764.44	642.79	7.65	1.21
84674	A	3.19	2.49	48.33	42.38	2.56	2.70	545.13	500.75	8.98	11.02
84675	1	3.63	4.09	46.55	53.60	3.42	3.62	603.95	581.54	8.21	1.17
84675	2	0.12	0.10	2.59	2.11	1.77	1.87	380.96	378.41	4.12	8.59
84675	3	0.50	0.54	4.68	3.45	2.13	2.32	498.07	480.49	0.94	1.17
84675	A	0.33	0.34	5.00	4.86	1.88	1.99	400.47	395.88	4.11	10.93
84676	1	8.92	8.70	174.08	156.43	1.72	2.14	661.31	634.56	25.59	1.32
84676	2	0.50	0.41	9.85	9.62	2.22	2.33	522.95	501.75	8.25	9.07
84676	3	0.77	0.72	12.65	8.42	1.86	1.91	653.30	564.47	2.53	1.35
84676	A	0.99	0.89	19.21	17.58	2.16	2.29	540.03	513.65	8.78	11.74
84677	1	2.95	3.00	30.85	27.89	2.70	2.69	813.18	739.59	14.36	1.18
84677	2	0.10	0.10	2.93	2.77	0.49	0.46	446.53	422.91	1.47	8.69
84677	3	0.47	0.43	5.24	3.88	0.98	0.85	639.55	563.08	-0.02	1.20
84677	A	0.28	0.27	4.52	4.14	0.64	0.60	478.77	448.88	2.03	11.07
84679	1	12.17	11.74	110.30	90.22	2.03	2.31	561.96	451.46	72.75	1.20
84679	2	0.80	0.59	14.04	10.71	1.23	1.28	369.01	331.12	4.34	8.80
84679	3	1.25	1.07	8.58	5.33	1.80	1.67	534.65	392.73	4.45	1.28
84679	A	1.42	1.20	18.60	14.41	1.31	1.36	390.69	341.77	7.87	11.27
84680	1	167.51	30.97	679.36	464.14	3.14	0.28	724.79	518.69	1199.80	1.21
84680	2	45.99	15.39	115.69	91.68	1.71	2.45	607.51	525.02	398.09	8.80
84680	3	69.49	26.29	172.66	96.87	2.26	2.40	502.26	565.88	67.13	1.20
84680	A	53.89	16.94	148.84	111.35	1.82	2.34	606.50	527.49	417.10	11.20
84681	1	2.95	3.61	40.23	49.37	3.58	4.14	591.01	598.49		1.21
84681	2	0.12	0.09	1.83	1.46	1.77	2.02	386.50	383.57		8.69
84681	3	0.50	0.52	4.19	3.10	2.10	2.24	514.53	480.19		1.21
84681	A	0.29	0.31	4.02	4.09	1.88	2.15	406.11	401.57		11.11
84682	1	10.57	13.14	205.52	219.76	0.64	0.76	695.72	688.57	64.47	1.15
84682	2	1.70	1.62	29.05	28.22	0.96	0.96	414.53	422.17	18.69	8.61
84682	3	3.94	4.38	153.23	149.63	0.21	0.23	443.15	431.45	5.40	1.18
84682	A	2.30	2.39	46.58	46.27	0.90	0.90	430.75	436.33	20.09	10.94
84683	1	5.12	5.71	74.15	73.86	3.20	4.14	563.63	597.00	14.39	1.24
84683	2	0.76	0.61	11.24	9.05	2.61	2.69	408.17	388.12	9.07	8.66
84683	3	3.18	2.86	17.41	13.60	4.02	4.13	503.21	462.87	6.53	1.20
84683	A	1.18	1.04	15.28	12.86	2.74	2.87	423.70	404.59	9.18	11.11

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		
84685	1	9.31	7.58	108.31	85.68	5.67	5.61	1000.80	877.61	11.51	1.17
84685	2	0.94	0.58	0.55	0.27	1.60	1.68	608.79	579.10	73.90	8.68
84685	3	5.57	4.50	16.35	12.78	1.87	1.96	792.37	715.07	5.80	1.20
84685	A	1.69	1.21	7.12	5.50	1.83	1.90	641.39	603.75	66.01	11.05
84686	1	63.20	19.83	347.95	239.44	2.07	2.07	681.01	487.70	282.24	1.32
84686	2	3.10	2.12	6.16	4.71	4.77	4.04	511.44	426.94	12.38	8.86
84686	3	5.37	4.39	16.85	11.84	4.54	3.57	740.82	558.12	10.98	1.26
84686	A	6.62	3.27	26.05	18.29	4.61	3.90	537.08	439.63	27.30	11.44
84687	1	21.99	17.34	491.79	410.84	0.37	0.65	987.71	841.38	332.42	1.25
84687	2	1.17	0.97	26.17	22.88	1.69	1.61	645.94	599.90	16.50	8.75
84687	3	1.75	1.56	32.76	25.25	2.12	1.93	884.30	735.29	3.39	1.27
84687	A	2.33	1.90	51.55	43.90	1.65	1.58	681.37	622.69	32.52	11.27
84688	1	4.55	4.54	68.63	64.76	1.94	1.91	800.15	695.22	14.51	1.23
84688	2	0.16	0.14	3.27	3.14	1.19	1.17	462.20	436.74	10.56	8.67
84688	3	0.60	0.66	4.69	3.73	2.24	2.13	614.17	560.54	4.66	1.21
84688	A	0.42	0.41	6.86	6.47	1.30	1.28	490.93	459.18	10.36	11.11
84689	1	2.37	2.56	40.08	36.04	3.17	3.04	591.27	512.62	35.13	1.25
84689	2	0.11	0.11	5.03	4.78	0.51	0.52	302.39	289.16	0.59	8.77
84689	3	0.42	0.44	10.04	8.58	0.74	0.71	438.99	389.13	0.39	1.25
84689	A	0.26	0.26	7.26	6.72	0.67	0.67	327.55	308.20	2.43	11.26
84690	1	4.23	5.09	58.78	62.07	3.82	4.27	621.87	620.34	7.02	1.19
84690	2	0.41	0.33	6.56	5.72	0.83	1.03	352.24	358.13	1.69	8.73
84690	3	1.69	1.78	16.03	15.07	1.64	1.97	438.94	452.21	2.26	1.23
84690	A	0.70	0.68	9.95	9.29	1.05	1.26	372.43	378.31	2.00	11.15
84692	1	8.77	9.61	148.10	127.49	2.13	2.72	600.00	591.79	12.12	1.17
84692	2	6.86	7.36	160.52	159.67	0.11	0.11	267.37	260.90	20.25	8.51
84692	3	8.07	9.36	181.83	174.43	0.17	0.33	355.00	357.29	9.71	1.14
84692	A	7.05	7.62	161.33	158.99	0.22	0.26	290.43	284.65	19.12	10.83
84693	1	8.41	8.99	174.35	157.11	2.50	2.71	806.29	731.22	15.70	1.21
84693	2	0.58	0.48	7.54	7.31	1.79	1.86	528.55	520.10	5.30	8.65
84693	3	1.56	1.66	15.32	13.22	1.78	1.93	747.64	697.83	2.44	1.16
84693	A	1.06	1.00	16.73	15.58	1.83	1.91	557.86	543.17	5.66	11.02
84694	1	28.22	20.46	260.99	180.97	2.86	2.65	1054.62	733.92	252.00	1.12
84694	2	1.59	0.95	15.81	12.60	5.18	4.50	550.83	467.53	15.93	8.75
84694	3	1.67	1.11	16.16	10.78	5.82	4.81	843.20	641.76	5.16	1.22
84694	A	2.91	1.91	27.93	20.69	5.11	4.43	596.16	492.64	26.68	11.09
84695	1	3.91	4.70	52.61	52.93	3.68	4.09	634.69	641.19	6.84	1.21
84695	2	0.42	0.29	5.97	4.29	0.78	0.98	364.56	370.04	1.86	8.73
84695	3	1.81	1.84	14.98	11.69	1.64	1.86	458.59	459.82	1.84	1.26
84695	A	0.71	0.63	9.06	7.38	1.00	1.20	385.47	390.72	2.12	11.20
84696	1	17.85	13.95	141.65	117.44	3.38	3.85	767.71	605.06	372.17	1.20
84696	2	5.47	3.06	25.38	20.10	3.34	3.60	452.99	376.68	35.71	8.73
84696	3	6.36	4.68	27.93	21.19	3.47	3.46	517.76	414.95	14.43	1.17
84696	A	6.17	3.73	31.60	25.23	3.35	3.60	473.70	391.13	51.72	11.10
84697	1	2.26	8.23	101.79	73.10	5.89	5.96	815.75	670.52	35.40	1.21
84697	2	1.19	2.41	22.34	17.52	4.67	4.78	458.85	391.96	3.14	8.66

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		
84697	3	1.73	3.91	37.67	24.26	6.25	5.88	654.52	516.64	4.33	1.22
84697	A	1.28	2.82	27.62	20.92	4.85	4.92	491.50	415.37	4.92	11.09
84699	1	86.34	31.47	268.94	222.75	2.50	3.00	1366.88	1082.48	1039.01	0.83
84699	2	5.08	4.01	65.72	54.05	1.96	2.45	507.50	482.88	124.74	8.75
84699	3	7.38	6.08	113.53	75.82	2.68	2.57	817.42	614.02	116.94	1.24
84699	A	8.22	5.18	76.51	61.85	2.03	2.48	560.64	514.41	158.21	10.81
84700	1	23.96	14.53	253.82	178.08	2.39	2.36	1195.56	956.32	57.97	1.22
84700	2	7.19	5.51	66.87	59.49	3.29	3.40	618.27	583.58	73.83	8.65
84700	3	9.10	7.13	84.89	55.85	4.37	3.91	916.39	719.53	17.43	1.23
84700	A	8.22	6.11	78.09	65.54	3.31	3.38	669.95	613.09	68.99	11.10
84701	1	3.64	3.71	51.42	43.10	4.14	4.43	693.03	632.37	12.52	1.32
84701	2	0.26	0.23	0.53	0.64	1.88	2.00	372.74	372.62	12.07	9.06
84701	3	1.23	1.27	8.33	6.69	2.92	3.06	511.32	476.61	5.05	1.30
84701	A	0.51	0.49	3.85	3.39	2.07	2.21	399.99	394.25	11.59	11.69
84702	1	8.27	8.24	121.19	109.01	6.30	6.27	1067.73	935.84	108.38	1.19
84702	2	0.93	0.83	9.37	7.29	1.30	1.38	608.48	558.11	3.07	8.68
84702	3	1.95	1.58	13.97	7.66	2.16	2.12	923.65	699.45	3.18	1.21
84702	A	1.38	1.27	15.46	12.60	1.61	1.69	653.84	587.59	8.53	11.09
84703	1	7.86	7.48	163.53	135.44	8.53	7.56	869.76	755.44	37.38	1.24
84703	2	0.81	0.68	22.39	20.43	5.26	4.98	494.70	484.06	10.31	8.77
84703	3	1.54	1.37	22.07	17.34	8.88	7.96	686.67	590.00	2.38	1.24
84703	A	1.23	1.09	29.87	26.32	5.69	5.33	528.25	505.96	11.19	11.24
84705	1	8.96	9.32	173.90	158.69	1.85	1.88	771.56	730.49	123.22	1.18
84705	2	1.85	1.73	64.53	69.64	0.70	0.73	470.20	466.84	23.15	8.65
84705	3	4.14	3.60	91.40	87.73	0.74	0.70	623.87	554.95	7.34	1.17
84705	A	2.37	2.25	72.01	75.48	0.76	0.78	496.27	486.48	27.23	11.01
84707	1	46.15	21.04	251.01	199.76	1.96	2.24	1508.67	1205.81	284.48	0.94
84707	2	2.87	1.87	36.08	31.20	1.93	2.08	665.57	637.28	72.45	8.79
84707	3	3.51	3.12	44.84	36.06	2.32	2.26	876.03	764.51	26.93	1.23
84707	A	4.63	2.75	45.21	38.52	1.95	2.10	713.34	669.72	78.06	10.96
84708	1	1.22	1.24	16.89	16.84	1.33	1.14	802.18	763.79	44.84	1.19
84708	2	0.03	0.03	0.39	0.23	0.51	0.49	453.55	433.13	9.64	8.67
84708	3	0.05	0.05	0.90	0.54	0.43	0.31	647.63	587.31	5.74	1.20
84708	A	0.10	0.10	1.28	1.11	0.55	0.51	485.14	460.99	11.19	11.07
84709	1	9.46	8.39	141.94	123.39	1.71	1.72	575.53	469.85	15.16	1.19
84709	2	1.01	0.68	15.47	12.51	1.29	1.30	409.26	355.10	2.78	8.65
84709	3	1.66	1.25	12.58	8.69	1.45	1.36	596.09	415.00	1.94	1.19
84709	A	1.49	1.12	21.79	18.00	1.32	1.33	430.60	365.17	3.37	11.02
84710	1	34.43	18.16	320.35	311.27	0.39	0.53	515.43	465.44	641.87	1.26
84710	2	0.48	0.31	5.09	4.53	0.64	0.68	393.53	398.82	5.32	8.68
84710	3	0.54	0.51	5.88	5.63	0.55	0.47	598.26	544.44	4.45	1.18
84710	A	2.33	1.29	22.28	21.31	0.62	0.66	414.17	412.37	39.89	11.12
84712	1	95.00	30.70	362.00	282.05	0.85	0.95	596.39	472.23	354.72	1.18
84712	2	8.31	4.93	65.69	65.61	1.79	2.14	391.85	385.02	13.72	8.56
84712	3	6.85	6.17	54.78	47.15	2.45	2.35	549.26	493.08	6.82	1.16
84712	A	12.63	6.36	80.06	75.65	1.79	2.09	413.05	396.93	30.98	10.91

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		
84713	1	2.93	2.81	31.51	27.77	3.02	3.21	898.15	828.73	6.81	1.20
84713	2	0.26	0.21	5.89	4.92	0.45	0.48	475.74	480.23	2.22	8.67
84713	3	0.48	0.40	7.60	5.51	0.19	0.25	686.57	626.28	2.00	1.20
84713	A	0.41	0.36	7.34	6.16	0.57	0.60	512.17	508.62	2.45	11.07
84714	1	2.31	3.21	25.28	33.58	1.32	1.93	454.49	503.13	82.13	1.20
84714	2	0.25	0.19	3.99	3.83	0.15	0.17	302.52	286.39	6.69	8.66
84714	3	0.13	0.11	2.06	1.50	0.31	0.32	421.45	353.94	3.84	1.22
84714	A	0.35	0.34	4.99	5.23	0.22	0.27	318.77	302.51	10.46	11.08
84715	1	17.68	19.56	229.62	225.19	0.57	0.95	488.88	435.97	517.55	1.23
84715	2	1.62	1.10	29.81	28.78	1.64	1.79	374.50	351.50	35.20	8.71
84715	3	1.27	1.10	13.67	10.55	1.93	1.99	510.70	423.01	13.33	1.24
84715	A	2.46	2.08	39.40	37.92	1.61	1.76	390.35	361.07	59.26	11.18
84719	1	4.79	4.17	74.93	64.11	4.13	4.35	886.61	726.34	8.09	1.16
84719	2	0.12	0.07	4.00	3.33	0.90	0.92	450.05	410.10	0.82	8.60
84719	3	1.13	0.74	16.80	10.36	1.31	1.34	709.14	528.14	1.53	1.17
84719	A	0.43	0.32	8.49	6.92	1.09	1.12	489.94	434.34	1.24	10.93
84720	1	12.20	11.80	144.11	128.79	7.01	7.01	997.72	896.73	94.36	1.19
84720	2	1.46	1.24	12.67	11.93	2.75	2.78	653.41	595.09	5.33	8.81
84720	3	1.94	1.71	11.08	7.67	2.57	2.41	848.27	651.64	0.93	1.27
84720	A	2.05	1.81	19.36	17.63	2.95	2.97	685.23	614.65	9.57	11.27
84722	1	3.26	2.79	32.94	29.05	2.60	2.25	965.16	823.77	20.36	1.20
84722	2	0.04	0.03	0.72	0.62	1.63	1.42	487.45	470.93	1.94	8.70
84722	3	0.10	0.08	2.15	1.41	1.72	1.27	750.82	601.14	1.58	1.21
84722	A	0.21	0.18	2.50	2.15	1.69	1.45	530.69	498.32	2.87	11.11
84723	1	6.26	5.29	100.46	83.10	3.85	4.39	616.27	530.38	40.62	1.23
84723	2	2.08	1.69	13.47	10.27	3.18	3.60	371.63	336.11	9.87	8.72
84723	3	3.49	2.55	25.54	15.22	4.81	4.58	599.18	442.16	3.55	1.24
84723	A	2.40	1.95	18.95	14.48	3.33	3.71	400.78	353.94	11.05	11.19
84724	1	7.12	5.50	72.02	52.74	2.36	2.65	821.23	624.00	21.98	1.25
84724	2	0.29	0.17	4.75	3.48	1.34	1.36	439.02	388.16	3.38	8.71
84724	3	1.76	1.16	12.50	7.20	2.60	2.43	700.33	495.53	2.37	1.23
84724	A	0.76	0.52	8.91	6.40	1.48	1.51	477.91	408.42	4.31	11.19
84726	1	6.01	4.60	95.30	67.25	2.89	3.15	931.16	744.39	12.66	1.17
84726	2	0.39	0.34	14.42	13.02	1.33	1.26	500.95	428.46	2.43	8.60
84726	3	1.14	0.92	18.75	12.15	2.44	2.20	769.46	555.40	1.07	1.16
84726	A	0.73	0.59	18.88	15.75	1.49	1.42	541.37	453.30	2.86	10.93
84727	1	4.33	3.79	46.41	37.64	2.23	2.35	884.55	804.29	29.59	1.23
84727	2	0.42	0.46	8.86	9.50	1.03	1.05	503.37	492.82	37.41	8.67
84727	3	2.88	2.41	51.51	53.57	1.21	1.27	574.17	517.91	4.54	1.16
84727	A	0.80	0.77	13.76	13.98	1.11	1.14	528.49	511.19	34.79	11.07
84728	1	2.26	2.11	10.84	8.73	0.67	0.99	839.36	758.48	27.03	1.18
84728	2	0.04	0.04	0.42	0.23	0.05	0.09	427.93	415.46	4.86	8.68
84728	3	0.02	0.02	0.36	0.21	0.09	0.11	670.24	567.66	3.34	1.22
84728	A	0.16	0.14	0.95	0.67	0.09	0.14	466.10	443.83	5.89	11.08
84729	1	2.37	2.47	6.17	5.99	0.81	0.96	653.47	721.70	6.97	1.16
84729	2	0.07	0.06	3.13	2.89	0.26	0.25	291.03	362.55	1.89	8.67

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		
84729	3	0.04	0.04	0.35	0.18	0.25	0.22	429.51	459.01	1.63	1.18
84729	A	0.18	0.18	3.09	2.86	0.29	0.29	319.05	387.32	2.13	11.01
84730	1	6.71	6.44	89.34	80.46	2.88	2.93	851.10	701.89	31.97	1.25
84730	2	0.82	0.51	7.18	4.62	0.45	0.44	499.83	456.33	4.48	8.72
84730	3	4.69	3.64	31.65	20.33	0.57	0.51	741.73	595.97	13.22	1.21
84730	A	1.40	1.04	13.25	9.79	0.59	0.58	535.18	479.25	6.57	11.18
84732	1	18.04	11.55	172.13	119.00	3.90	5.00	715.45	589.75	13.29	1.19
84732	2	4.00	3.20	75.62	64.53	4.07	4.62	454.61	427.61	7.38	8.56
84732	3	5.98	4.80	129.58	91.74	3.45	3.93	628.07	497.79	8.63	1.18
84732	A	4.86	3.75	84.37	69.27	4.02	4.59	480.18	440.96	7.78	10.93
84733	1	3.59	3.49	33.63	32.84	2.54	2.63	748.22	706.12	5.86	1.18
84733	2	0.09	0.07	0.53	0.41	0.50	0.48	456.25	427.06	1.19	8.66
84733	3	0.22	0.19	2.44	2.17	1.46	1.17	605.13	551.56	1.34	1.18
84733	A	0.28	0.25	2.39	2.20	0.67	0.64	481.69	449.98	1.44	11.03
84734	1	6.30	5.53	32.27	24.98	2.99	3.26	853.28	713.17	22.96	1.16
84734	2	0.31	0.29	7.10	7.00	1.45	1.48	461.28	432.71	2.66	8.58
84734	3	0.66	0.64	8.36	6.20	2.16	2.06	693.79	587.36	1.38	1.17
84734	A	0.65	0.58	8.48	7.86	1.58	1.61	497.26	457.62	3.61	10.91
84737	1	1.96	2.47	24.24	25.71	1.58	1.86	591.45	617.43	35.05	1.23
84737	2	0.16	0.13	10.48	10.32	0.86	0.81	397.25	356.75	9.04	8.74
84737	3	0.20	0.16	3.48	2.20	1.33	1.24	570.49	466.95	4.39	1.21
84737	A	0.25	0.26	10.72	10.58	0.93	0.89	419.50	378.23	10.10	11.18
84738	1	16.03	14.49	399.83	370.05	0.79	1.27	938.26	881.36	69.84	1.37
84738	2	4.78	3.94	140.71	130.96	1.78	2.17	608.56	584.36	12.51	8.98
84738	3	6.47	5.02	197.91	140.80	2.95	2.96	976.90	779.96	4.66	1.22
84738	A	5.53	4.62	159.32	145.23	1.81	2.17	652.37	614.61	15.24	11.57
84739	1	4.69	5.76	26.04	29.90	1.64	2.12	496.71	548.22	104.99	1.18
84739	2	0.28	0.24	6.98	6.63	0.63	0.71	278.70	332.52	19.25	8.64
84739	3	0.36	0.29	7.43	4.78	0.63	0.63	499.38	435.46	7.14	1.18
84739	A	0.51	0.53	7.99	7.71	0.68	0.78	305.08	350.72	22.84	11.00
84740	1	3.21	3.01	27.15	22.16	4.02	3.98	945.29	827.77	28.59	1.22
84740	2	0.46	0.37	8.33	6.85	0.67	0.69	495.28	460.19	5.64	8.72
84740	3	1.50	1.27	17.10	13.36	0.64	0.68	687.95	591.67	3.60	1.22
84740	A	0.68	0.57	9.94	8.11	0.85	0.86	532.50	488.72	6.71	11.15
84741	1	8.69	7.92	85.84	62.04	5.44	5.69	740.86	627.60	38.55	1.21
84741	2	2.92	2.39	20.09	15.78	4.63	4.75	440.52	384.35	2.71	8.71
84741	3	4.32	3.70	31.00	21.66	6.21	5.95	619.51	511.17	3.11	1.23
84741	A	3.32	2.77	24.33	18.62	4.79	4.88	469.02	406.04	4.61	11.16
84743	1	1.46	2.37	16.66	23.74	1.71	2.36	347.33	431.91	11.45	1.18
84743	2	0.11	0.07	4.66	4.23	0.76	1.00	263.25	283.02	0.58	8.60
84743	3		0.20		6.43		1.23		346.65	1.20	1.18
84743	A		0.20		5.39		1.09		295.12	1.19	10.96
84745	1	4.52	5.18	68.96	66.27	2.01	2.47	401.11	418.16	110.69	1.25
84745	2	0.48	0.38	11.86	9.38	1.95	1.91	284.15	264.16	12.00	8.75
84745	3	0.78	0.70	14.33	10.31	2.52	2.33	394.12	336.59	2.22	1.23
84745	A	0.72	0.66	15.11	12.51	2.00	1.97	298.20	277.54	16.61	11.24

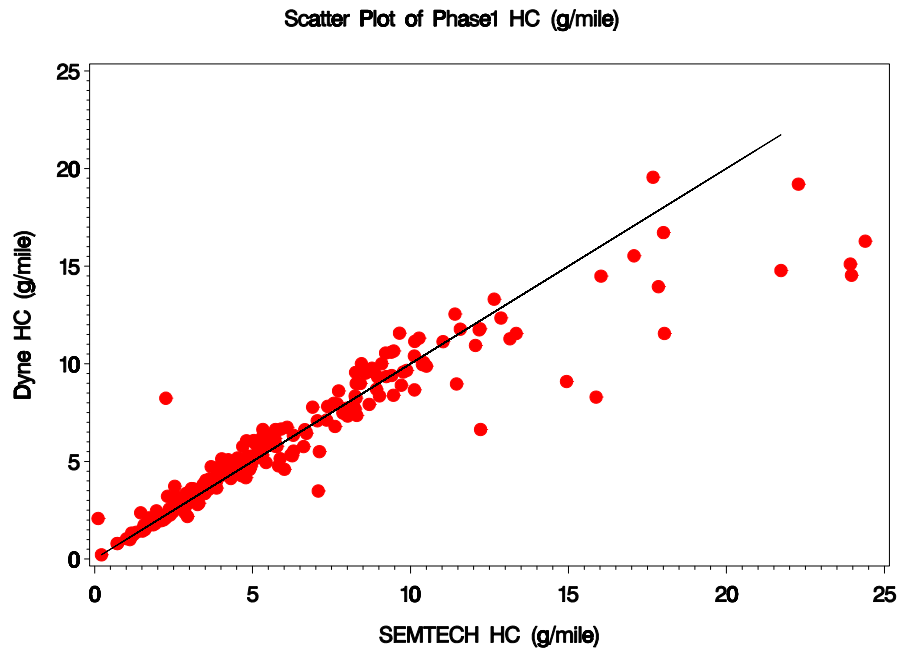
RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84747	1	1.07	1.00	12.11	6.64	2.24	2.00	882.35	598.43	10.97	1.21
84747	2	0.02	-0.02	0.67	-1.08	0.39	0.40	494.00	382.97	4.03	8.69
84747	3	0.31	-8.34	4.08	-333.19	0.03	-3.86	5577.02	-14533.98		0.01
84747	A	0.08	0.03	1.27	-0.93	0.49	0.48	519.53	382.85		9.91
84748	1	1.14	1.09	9.93	7.56	2.85	2.49	912.01	791.43	7.60	1.20
84748	2	0.04	0.04	1.93	1.41	0.62	0.66	497.14	461.55	1.29	8.67
84748	3	0.10	0.10	4.00	3.12	0.55	0.53	745.92	625.10	1.27	1.18
84748	A	0.10	0.10	2.49	1.85	0.73	0.75	535.67	489.93	1.62	11.05
84749	1	2.11	1.97	20.33	14.08	1.34	1.41	818.27	712.75	3.69	1.19
84749	2	0.03	0.02	1.27	0.85	0.16	0.17	436.06	405.11	0.86	8.65
84749	3	0.18	0.16	3.77	2.33	0.56	0.46	644.49	521.45	2.56	1.21
84749	A	0.15	0.13	2.43	1.64	0.25	0.25	470.47	429.24	1.13	11.05
84751	1	1.12	1.00	10.75	8.98	1.76	1.90	531.60	513.45	0.73	1.20
84751	2	0.11	0.11	6.71	6.00	1.12	1.29	290.88	316.54	3.24	8.65
84751	3	0.08	0.09	3.86	3.13	0.96	1.11	362.84	391.37	0.56	1.20
84751	A	0.16	0.16	6.72	5.96	1.14	1.31	308.51	332.03	2.92	11.05
84752	1	2.09	2.65	6.82	6.27	1.85	1.82	392.48	367.02	4.91	1.19
84752	2	0.28	0.30	2.61	2.43	1.51	1.48	239.56	235.52	6.78	8.74
84752	3	0.81	0.77	2.20	1.51	1.89	1.81	328.10	291.01	2.34	1.18
84752	A	0.41	0.45	2.80	2.57	1.56	1.52	253.43	246.05	6.38	11.10
84753	1	1.67	1.68	10.32	8.80	1.58	1.46	799.20	730.61	21.47	1.20
84753	2	0.05	0.04	0.85	0.62	0.15	0.14	486.89	460.63	5.53	8.65
84753	3	0.06	0.06	1.04	0.54	0.08	0.06	735.95	615.04	2.47	1.21
84753	A	0.14	0.13	1.36	1.04	0.22	0.20	520.58	485.51	6.15	11.05
84754	1	1.02	1.04	6.66	5.87	1.74	1.55	772.98	697.19	11.21	1.25
84754	2	0.02	0.02	0.41	0.19	0.28	0.28	482.12	458.78	3.06	8.58
84754	3	0.03	0.03	0.87	0.36	0.22	0.16	747.67	590.66	1.24	1.20
84754	A	0.08	0.08	0.78	0.51	0.36	0.34	516.47	481.02	3.38	11.03
84755	1	1.52	1.43	15.77	14.25	0.44	0.41	943.18	846.16	3.97	1.24
84755	2	0.02	0.02	1.69	1.78	0.13	0.11	472.27	473.26	3.04	8.75
84755	3	0.04	0.03	1.96	1.08	0.10	0.09	648.58	597.32	0.05	1.23
84755	A	0.10	0.10	2.45	2.40	0.14	0.12	509.45	501.79	2.88	11.21
84757	1	1.33	1.37	10.50	8.65	1.25	1.24	938.49	832.04	4.42	1.22
84757	2	0.12	0.12	1.48	1.14	0.44	0.42	488.84	466.33	1.93	8.69
84757	3	0.17	0.18	1.81	0.87	0.50	0.46	767.94	644.68	1.31	1.20
84757	A	0.18	0.19	1.98	1.52	0.49	0.46	531.78	498.01	2.02	11.11
84758	1	10.41	10.07	129.11	109.31	4.91	5.35	1002.75	928.79	101.02	1.20
84758	2	3.25	2.83	52.24	52.08	1.17	1.33	625.18	597.05	12.86	8.59
84758	3	2.80	2.48	32.93	30.14	1.39	1.22	912.19	734.74	0.89	1.20
84758	A	3.59	3.19	54.92	53.57	1.38	1.53	665.06	624.18	16.66	10.99
84759	1	0.22	0.22	0.82	0.71	0.11	0.09	566.14	594.77	2.82	1.12
84759	2	0.05	0.05	1.30	1.10	0.03	0.03	330.57	340.74	0.71	8.45
84759	3	0.00	0.00	0.33	0.17	0.01	0.01	453.35	400.06	0.30	1.19
84759	A	0.05	0.05	1.21	1.02	0.03	0.03	351.05	357.69	0.79	10.75
84760	1	0.71	0.80	2.31	2.13	0.19	0.21	805.89	743.64	3.87	1.16
84760	2	0.06	0.06	1.25	1.05	0.05	0.05	446.82	429.22	1.31	8.52

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		
84760	3	0.01	0.00	0.12	0.00	0.03	0.05	625.38	558.99	1.56	1.17
84760	A	0.09	0.09	1.23	1.03	0.05	0.06	477.75	454.34	1.46	10.85
84761	1	1.17	1.33	10.67	10.23	0.45	0.45	851.61	853.29	7.26	1.17
84761	2	0.02	0.02	0.58	0.44	0.06	0.05	486.47	500.63	2.35	8.70
84761	3	0.07	0.06	2.72	1.82	0.03	0.02	693.58	667.91	0.92	1.12
84761	A	0.08	0.09	1.23	1.03	0.08	0.07	518.77	529.55	2.51	10.99
84763	1	1.92	1.81	14.37	12.05	0.37	0.37	964.13	898.68	3.17	1.19
84763	2	0.04	0.03	1.36	1.20	0.11	0.12	472.95	478.55	3.90	8.68
84763	3	0.03	0.02	1.45	0.86	0.22	0.24	675.11	636.26	-1.09	1.21
84763	A	0.13	0.12	2.04	1.74	0.13	0.14	512.35	511.31	3.51	11.08
84765	1	23.92	15.11	314.05	258.26	1.30	1.74	820.18	665.78	268.16	1.22
84765	2	4.94	3.53	102.03	95.36	1.25	1.49	480.16	445.12	97.99	8.74
84765	3	7.38	5.36	107.56	85.92	1.49	1.67	676.89	575.77	22.35	1.20
84765	A	6.11	4.27	113.55	103.26	1.27	1.52	511.56	465.69	101.74	11.16
84766	1	2.18	2.01	21.19	18.63	2.06	2.33	818.51	761.54	10.88	1.16
84766	2	0.04	0.03	0.53	0.43	0.23	0.23	480.50	462.75	1.51	8.59
84766	3	0.15	0.14	3.37	2.20	0.36	0.38	710.00	618.51	-1.87	1.17
84766	A	0.16	0.14	1.78	1.49	0.33	0.35	513.45	488.72	1.76	10.92
84767	1	2.94	2.18	39.33	25.53	4.63	3.74	876.11	577.47	7.86	1.15
84767	2	0.32	0.22	12.39	8.82	2.14	1.98	509.65	393.53	2.88	8.54
84767	3	1.26	0.71	18.13	10.13	2.83	2.35	810.11	481.48	1.34	1.17
84767	A	0.51	0.36	14.16	9.77	2.31	2.09	549.19	408.99	3.03	10.87
84768	1	5.00	4.98	48.75	50.54	3.77	4.18	929.30	872.56	8.04	1.16
84768	2	0.49	0.39	0.49	0.33	1.14	1.20	569.80	551.49	7.62	8.55
84768	3	1.94	1.57	6.02	4.64	1.55	1.53	781.87	689.18	-0.90	1.13
84768	A	0.81	0.70	3.34	3.20	1.30	1.37	602.31	577.16	7.08	10.84
84770	1	5.77	5.77	81.94	78.73	5.51	5.74	972.46	893.54	26.48	1.30
84770	2	0.23	0.18	0.59	0.51	2.05	2.12	601.71	581.25	25.24	8.78
84770	3	1.13	1.15	12.28	12.21	1.09	1.27	746.19	676.92	2.25	1.29
84770	A	0.60	0.56	5.90	5.69	2.17	2.26	632.53	605.50	23.63	11.37
84771	1	9.40	9.40	136.99	127.31	5.24	5.30	783.11	705.07	80.56	1.18
84771	2	3.11	2.59	19.28	15.69	2.46	2.74	471.70	445.75	44.41	8.75
84771	3	4.98	4.12	42.23	31.36	3.33	3.37	657.57	568.65	26.45	1.20
84771	A	3.57	3.05	27.01	22.49	2.66	2.92	500.77	467.51	45.02	11.14
84772	1	5.43	4.94	49.04	38.56	5.00	5.37	792.62	721.65	18.50	1.19
84772	2	0.25	0.20	5.59	4.84	2.24	2.25	439.48	447.63	6.08	8.71
84772	3	0.78	0.78	9.69	7.70	3.62	3.51	586.23	570.83	1.56	1.21
84772	A	0.56	0.49	8.13	6.79	2.48	2.50	467.98	470.37	6.41	11.11
84773	1	2.40	2.26	24.28	22.70	2.03	2.29	840.68	754.53	1.89	1.23
84773	2	0.10	0.07	0.84	0.46	0.42	0.44	498.59	454.52	1.61	8.73
84773	3	0.07	0.07	1.01	0.53	1.25	1.15	688.70	549.38	0.54	1.24
84773	A	0.22	0.18	2.09	1.65	0.57	0.59	530.19	477.23	1.55	11.21
84774	1	4.66	4.26	26.83	19.68	3.14	3.17	882.85	727.33	29.91	1.20
84774	2	0.18	0.15	3.60	2.55	0.70	0.14	469.12	429.42	2.74	8.68
84774	3	0.45	0.39	7.34	4.21	1.28	0.00	696.22	567.16	-0.22	1.20
84774	A	0.43	0.38	5.07	3.55	0.87	0.29	506.34	454.49	3.95	11.08

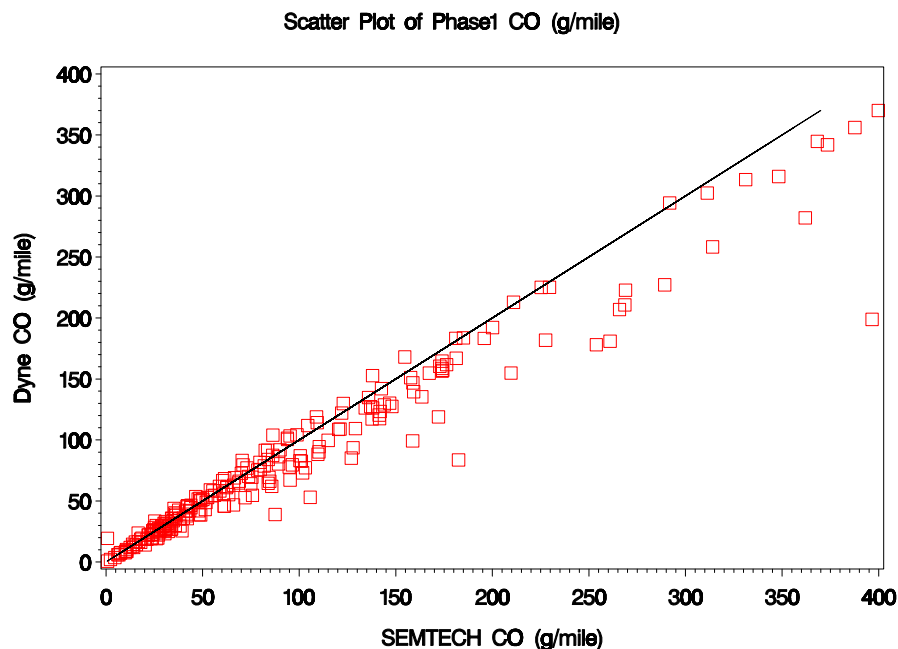
RunID	Phase	HC (g/m)		CO (g/m)		NOx (g/m)		CO2 (g/m)		PM2.5 (mg/m)	Distance (miles)
		SMT	BKI	SMT	BKI	SMT	BKI	SMT	BKI		
84775	1	5.82	4.77	61.15	45.78	5.88	5.35	1149.82	943.21	11.65	1.21
84775	2	1.06	0.93	11.46	9.94	2.43	2.39	639.82	584.13	3.68	8.60
84775	3	2.10	1.75	18.81	13.94	3.30	2.96	957.77	777.30	-1.37	1.15
84775	A	1.38	1.19	14.56	12.12	2.67	2.58	687.87	616.25	3.76	10.96
84777	1	9.88	9.66	173.99	164.67	2.00	2.09	766.98	702.27	42.83	1.21
84777	2	0.35	0.34	5.59	5.16	3.50	3.61	441.77	438.76	1.78	8.85
84777	3	1.20	1.26	38.04	36.88	2.91	2.80	662.20	591.19	-1.83	1.21
84777	A	0.91	0.88	16.56	15.58	3.38	3.48	473.78	462.83	3.65	11.27

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.

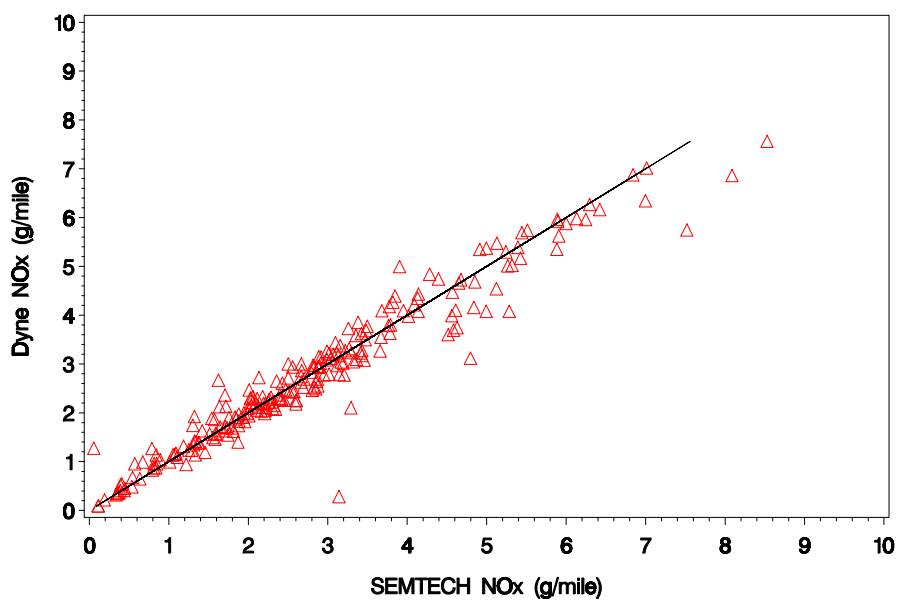


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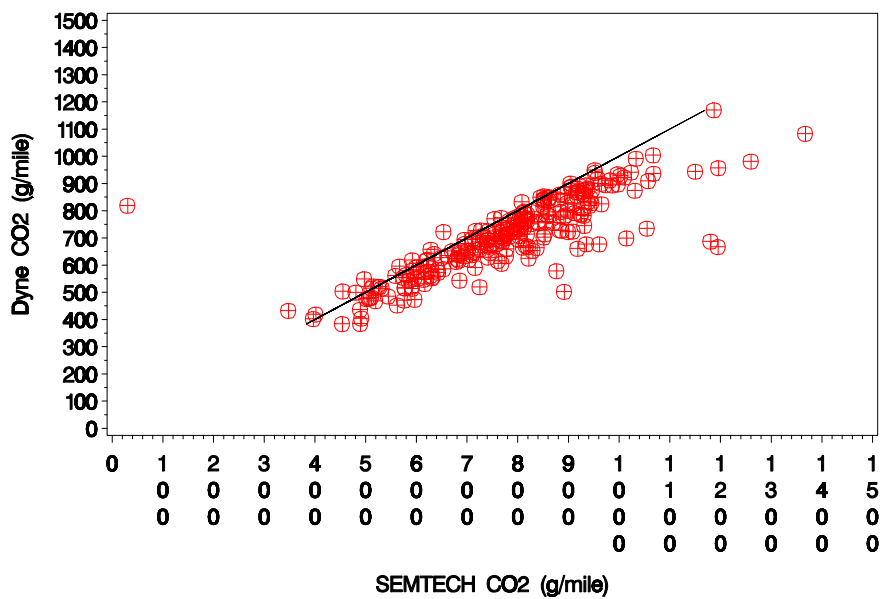
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Scatter Plot of Phase1 NOx (g/mile)



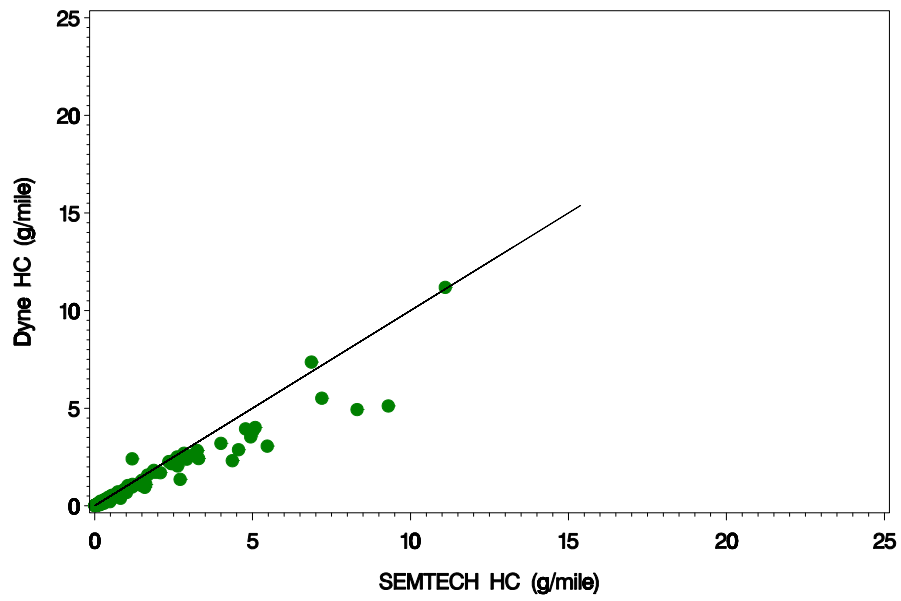
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Scatter Plot of Phase1 CO2 (g/mile)



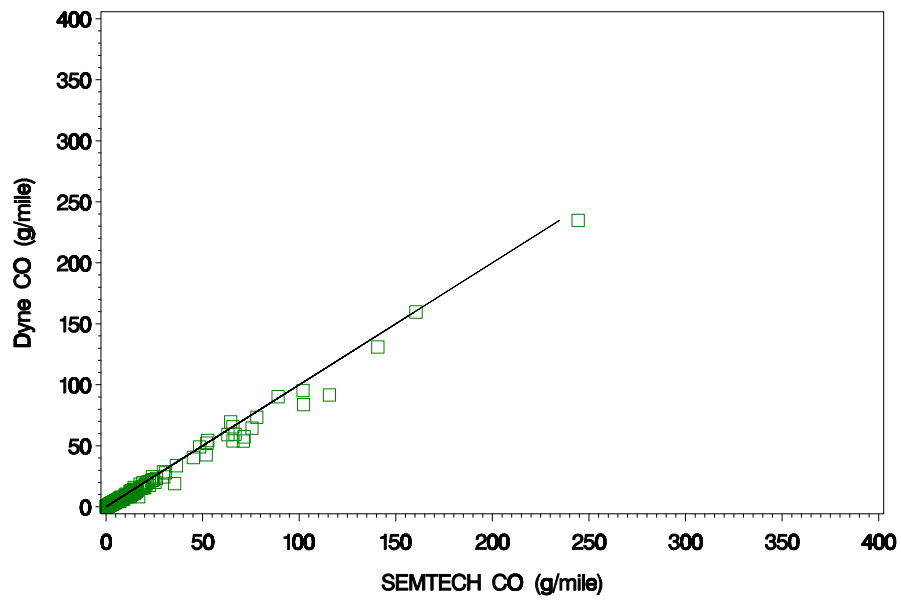
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Scatter Plot of Phase2 HC (g/mile)



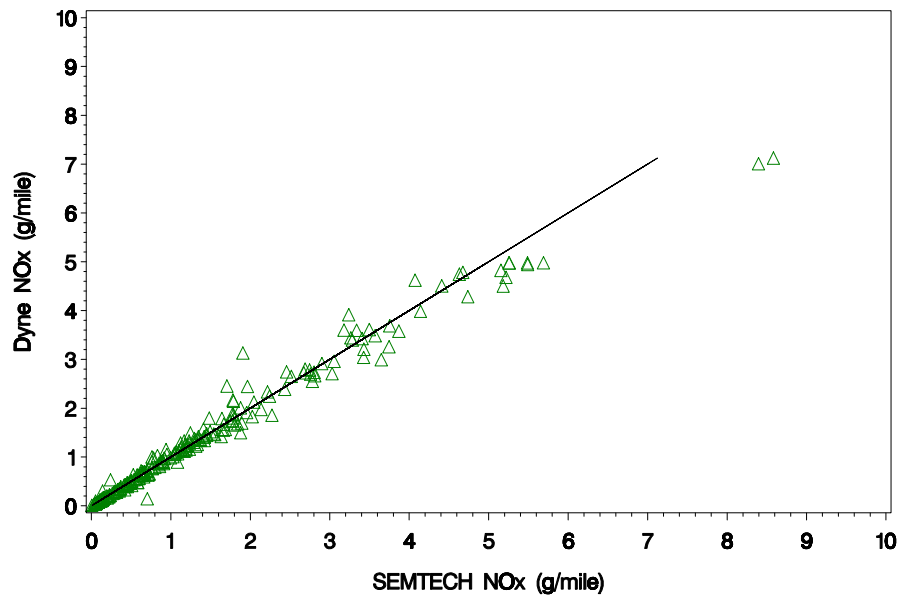
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Scatter Plot of Phase2 CO (g/mile)



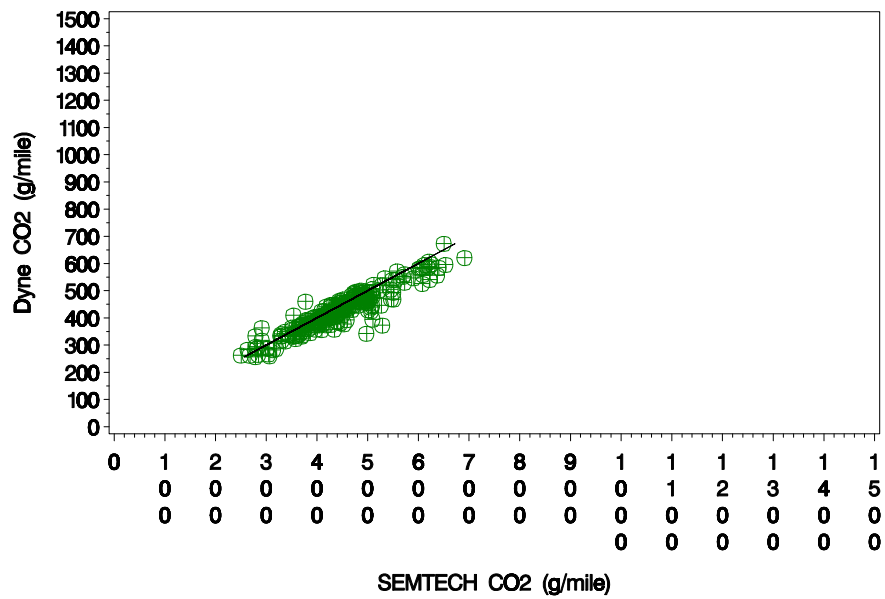
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Scatter Plot of Phase2 NOx (g/mile)



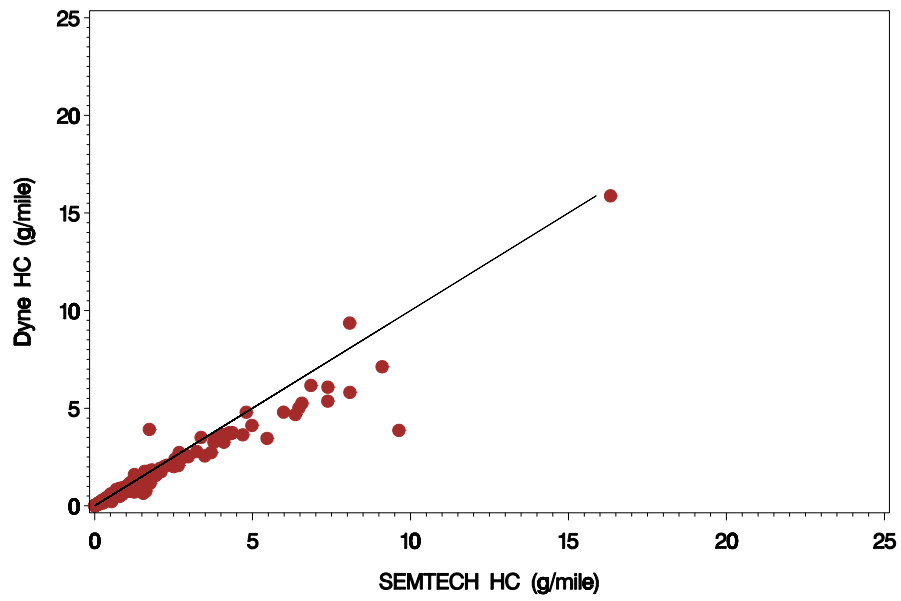
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Scatter Plot of Phase2 CO2 (g/mile)



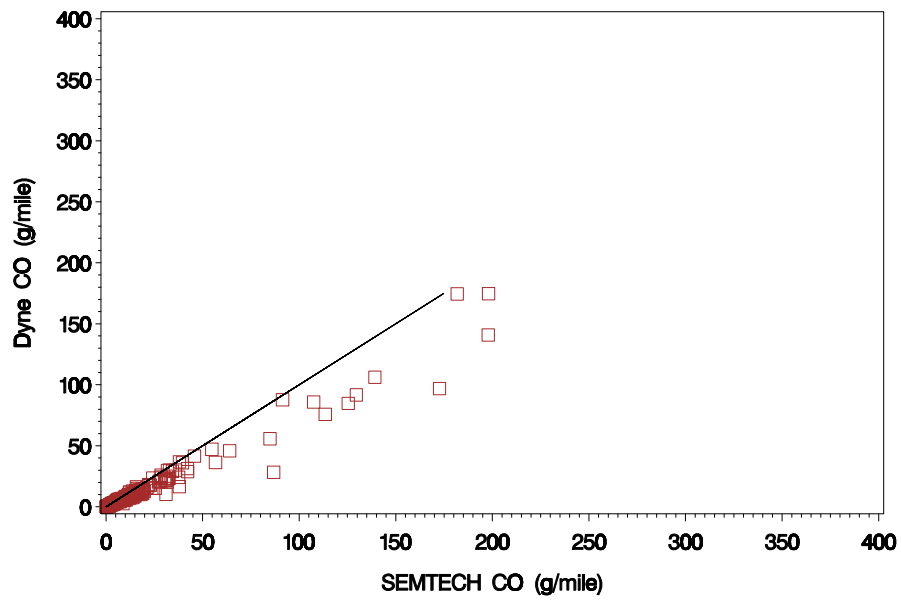
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Scatter Plot of Phase3 HC (g/mile)



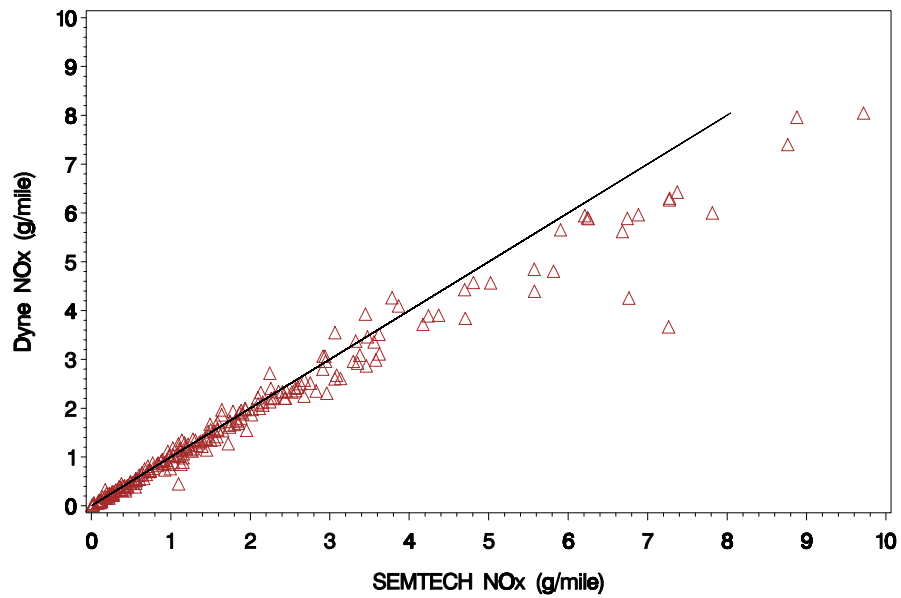
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Scatter Plot of Phase3 CO (g/mile)



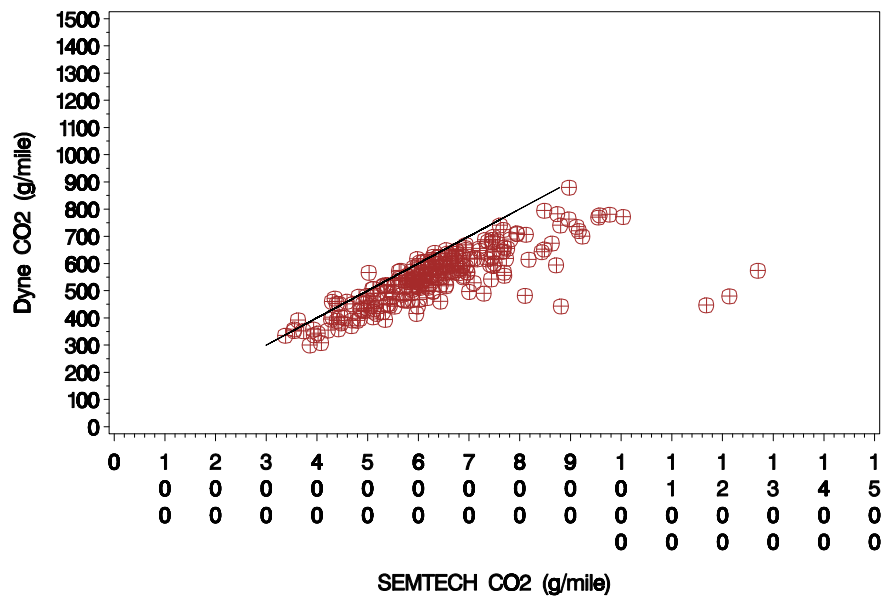
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Scatter Plot of Phase3 NOx (g/mile)



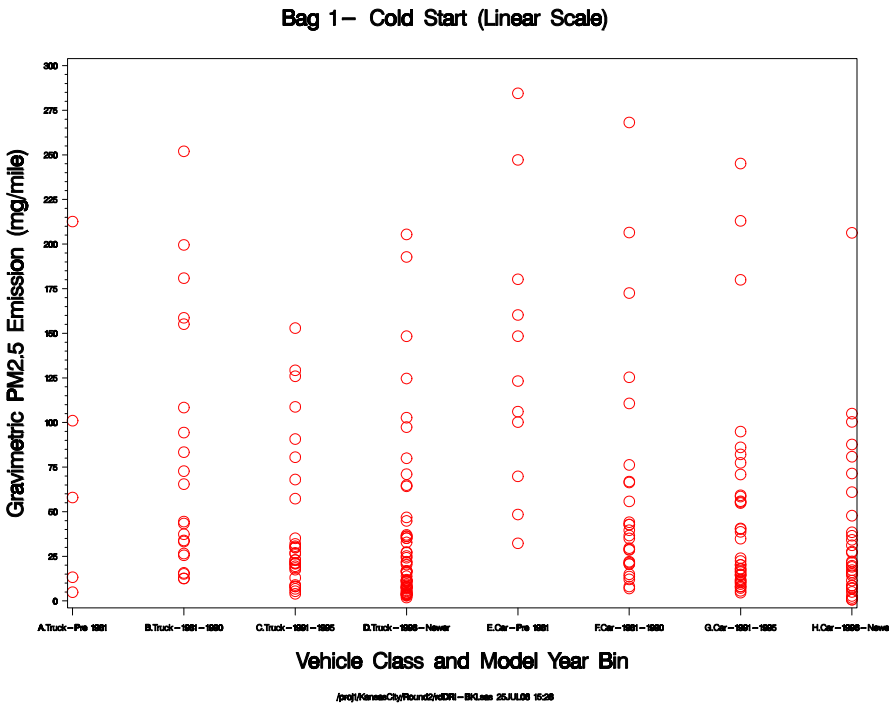
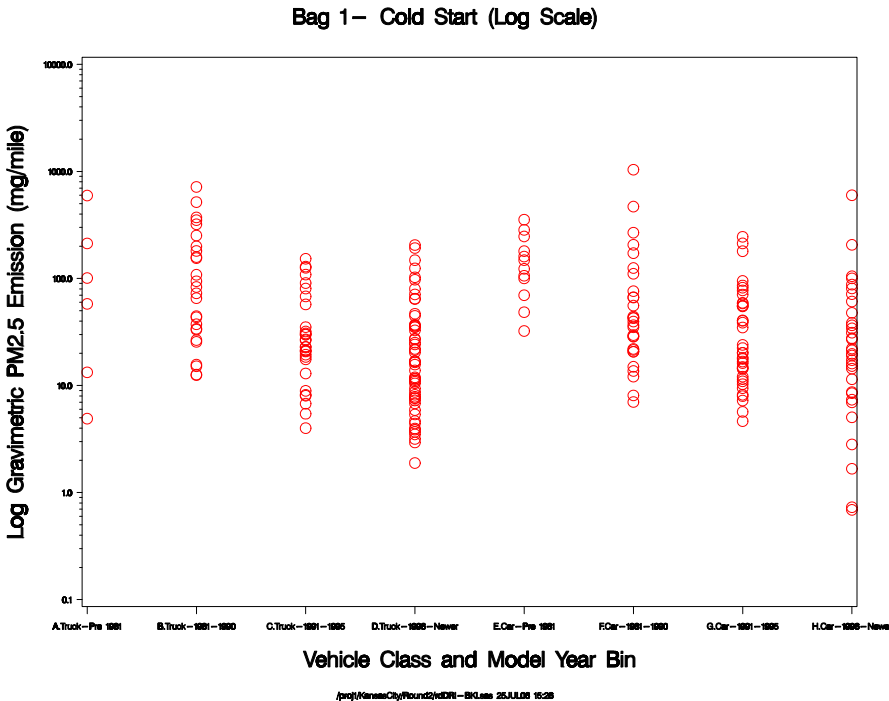
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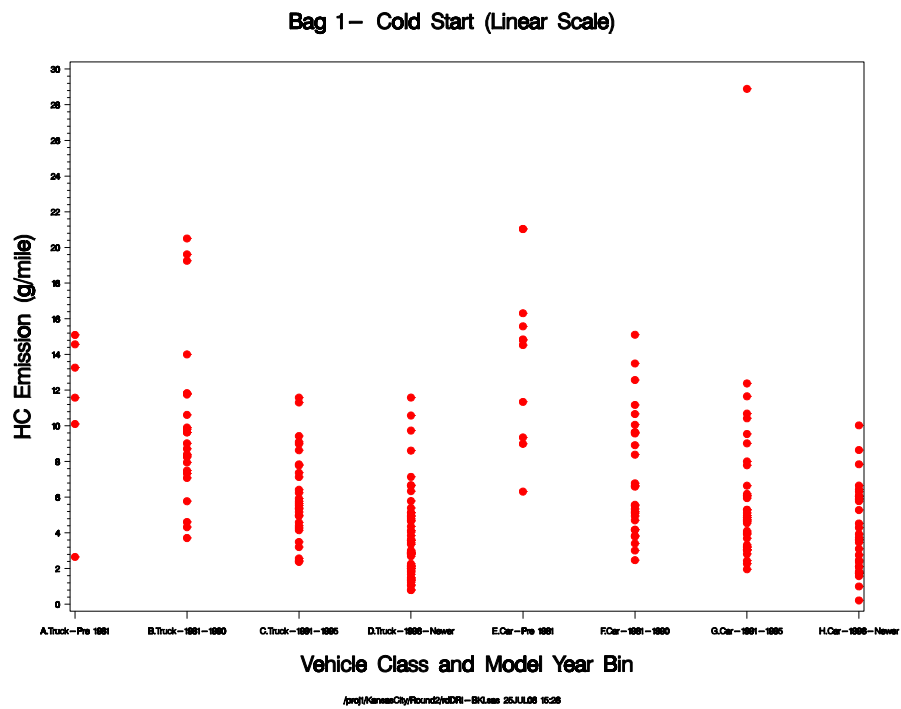
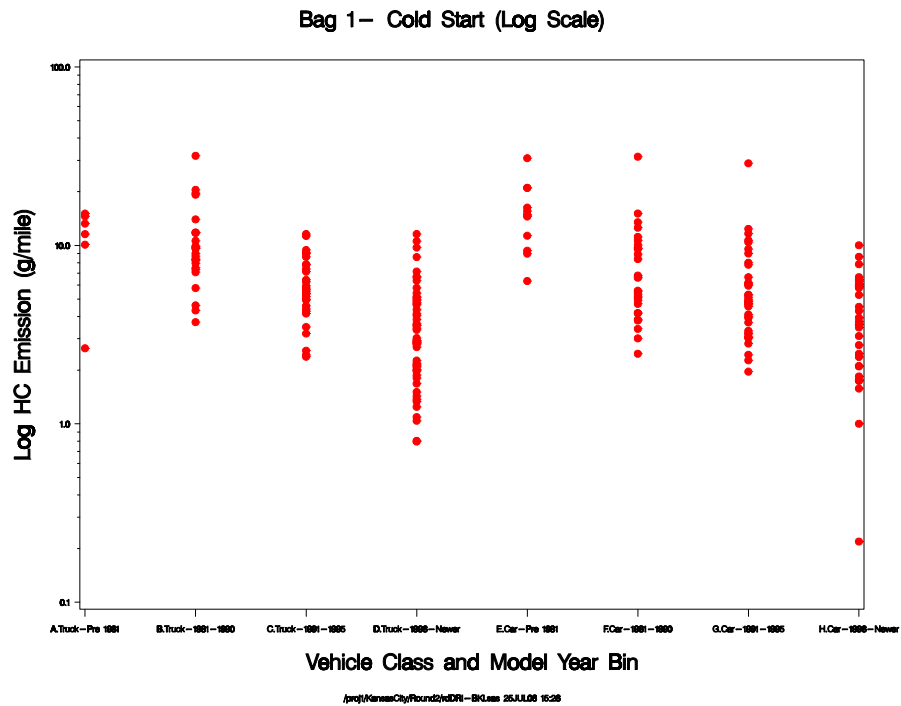
Scatter Plot of Phase3 CO2 (g/mile)



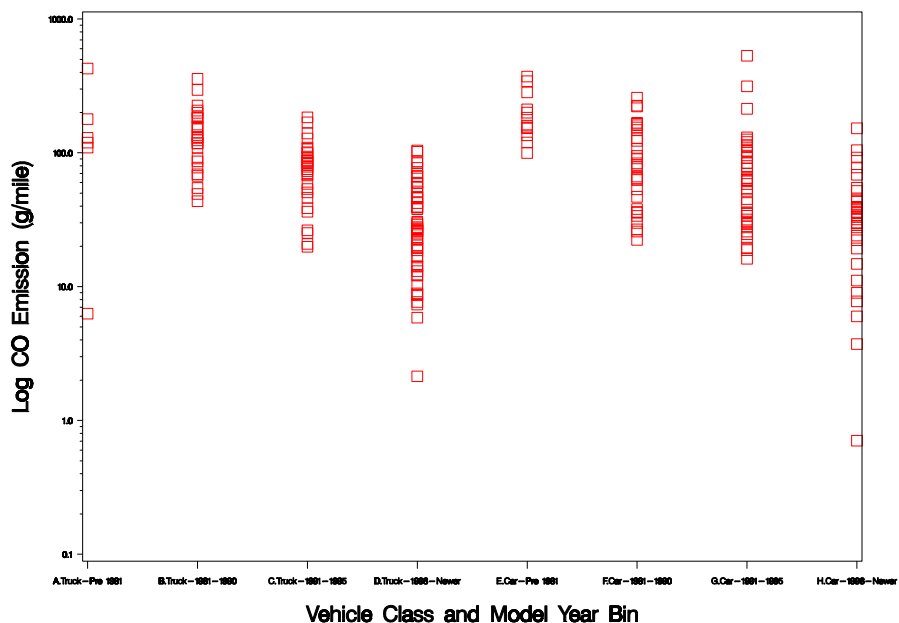
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Plots of Dynamometer Measurements and PM_{2.5} Measured by Gravimetric Mass-DRI



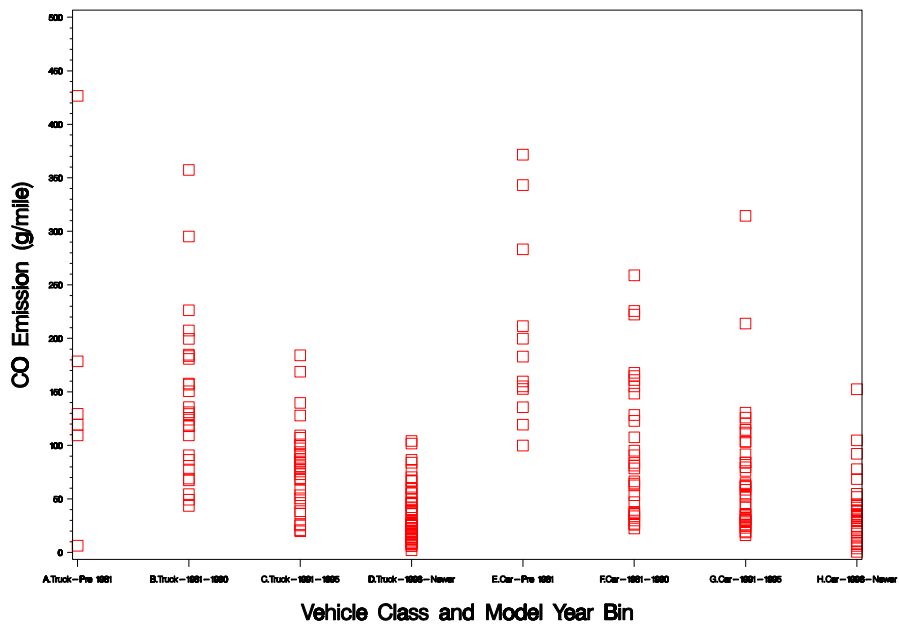


Bag 1- Cold Start (Log Scale)

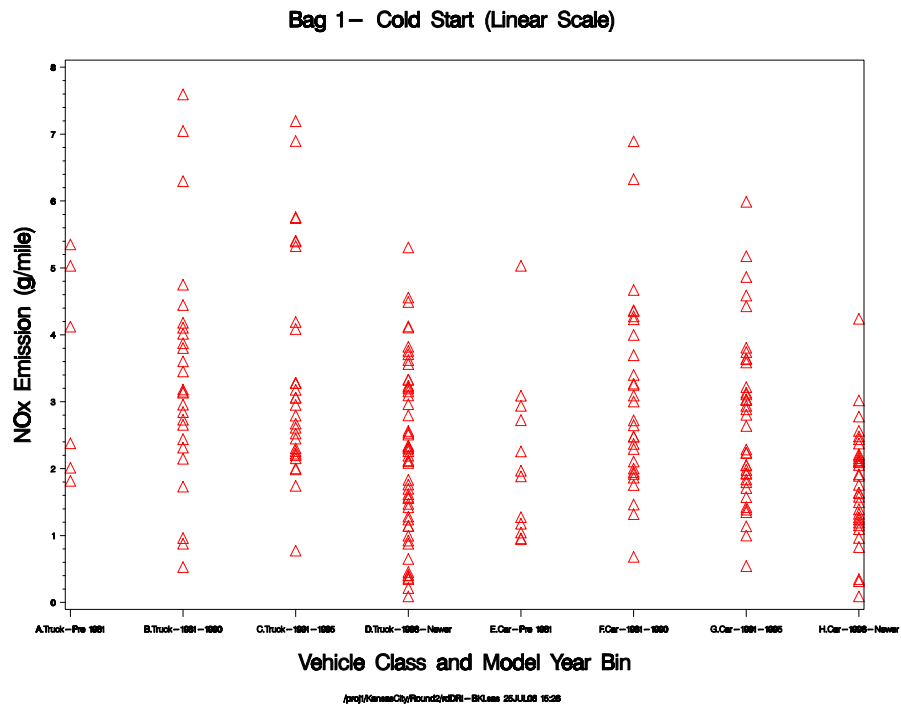
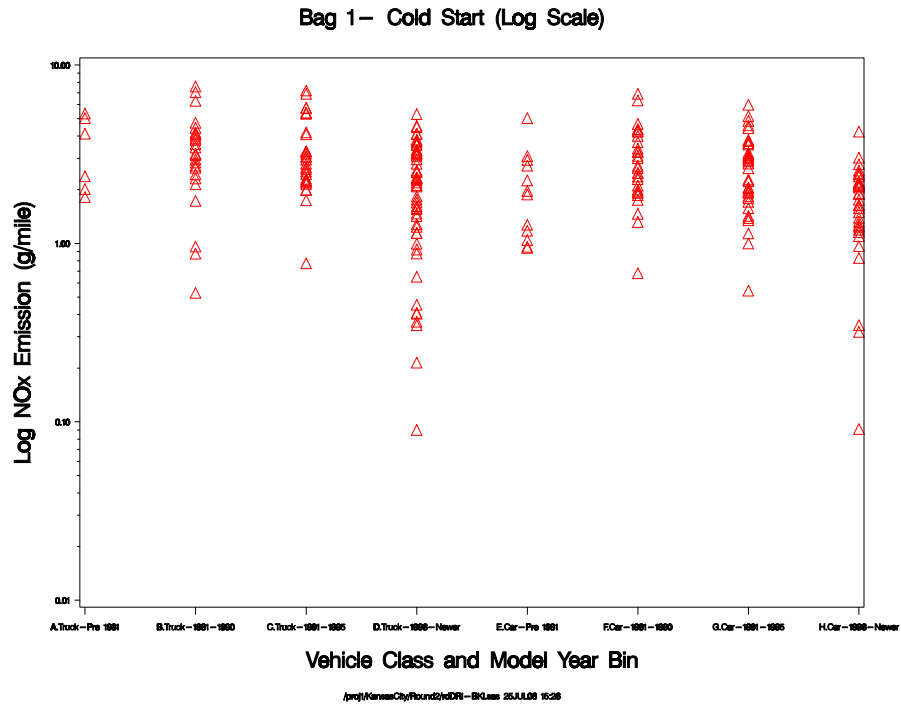


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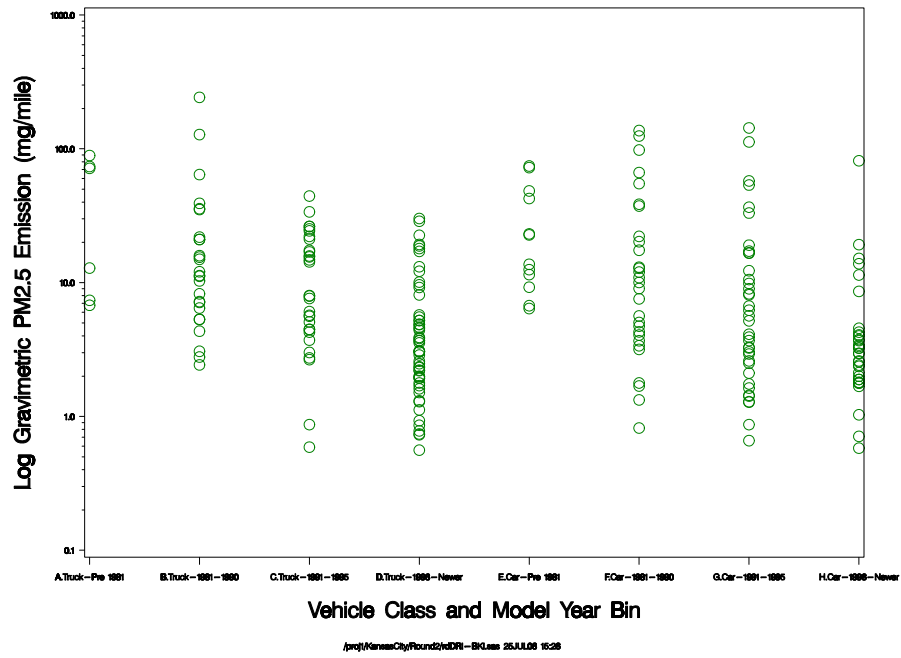
Bag 1- Cold Start (Linear Scale)



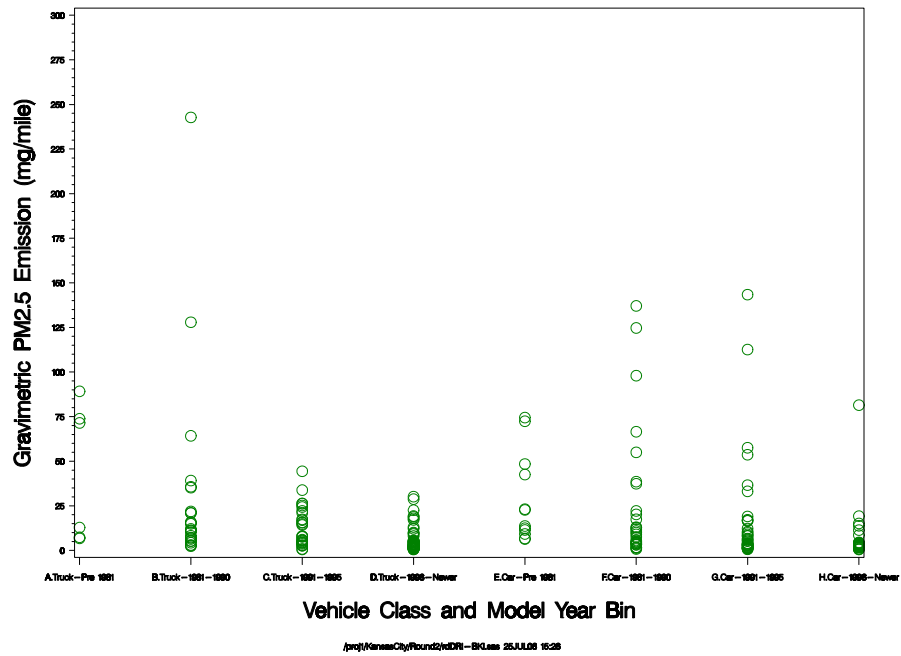
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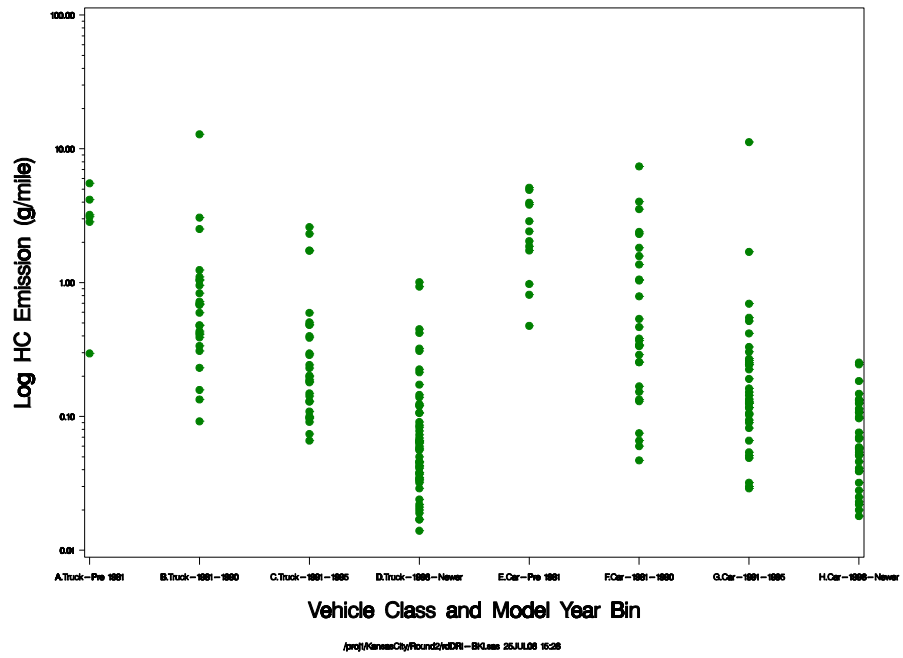
Bag 2– Transient (Log Scale)



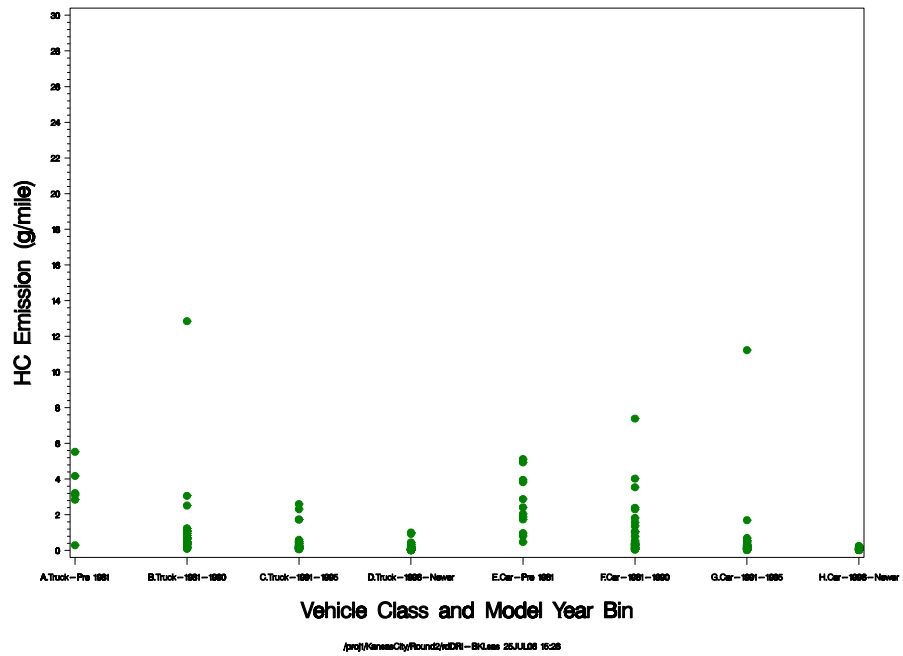
Bag 2– Transient (Linear Scale)



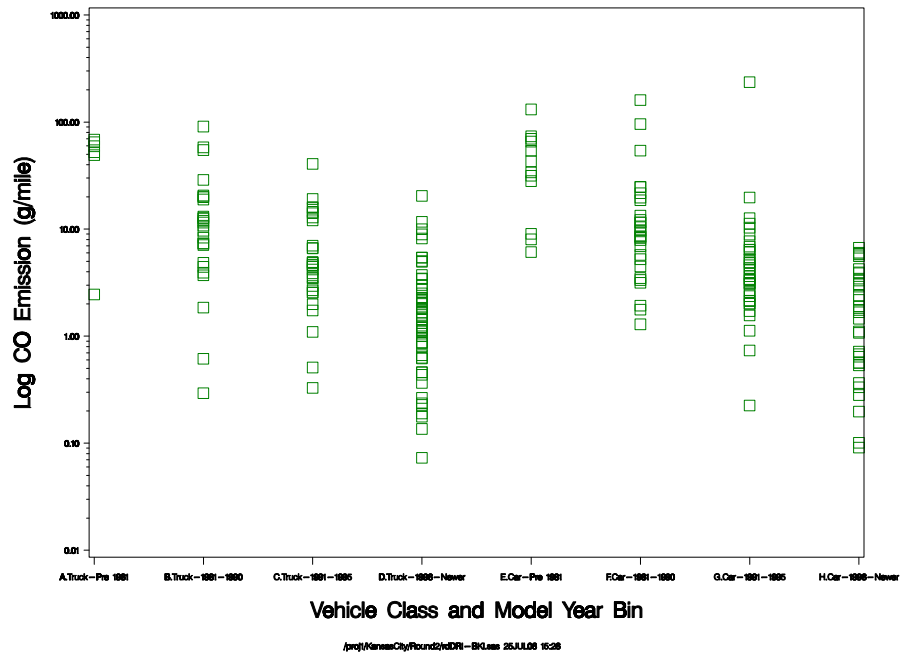
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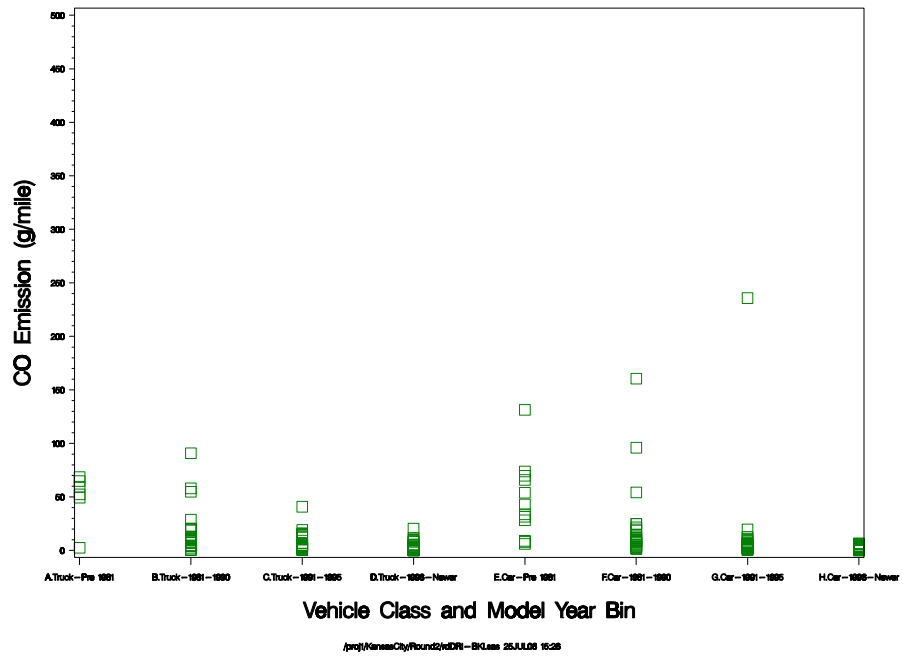
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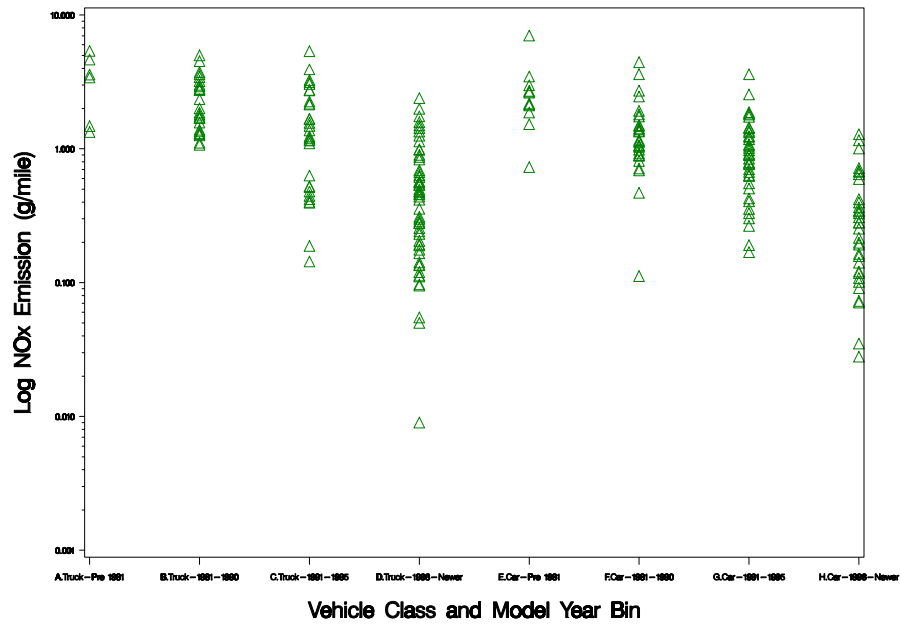
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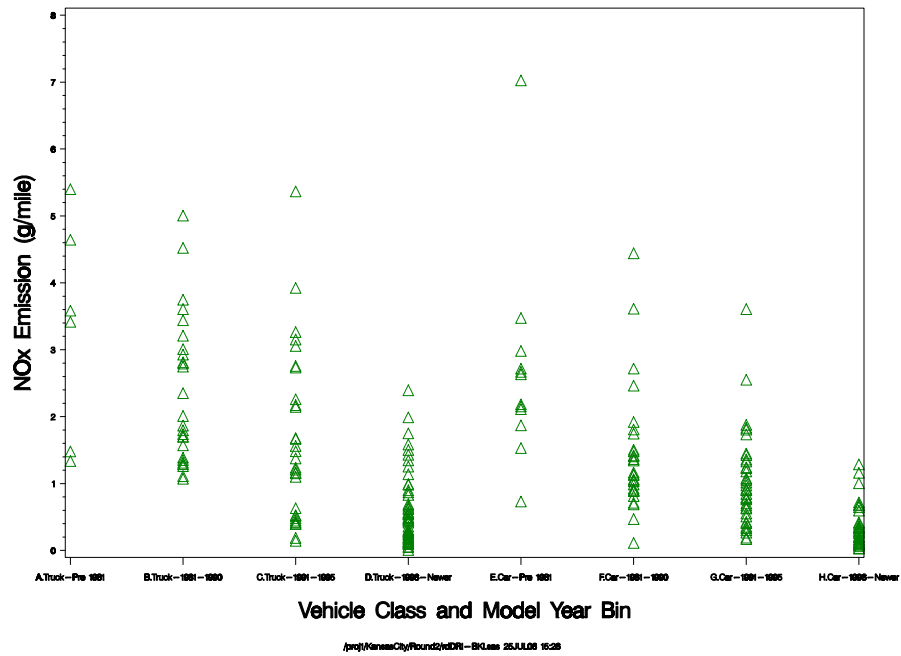
Bag 2- Transient (Linear Scale)



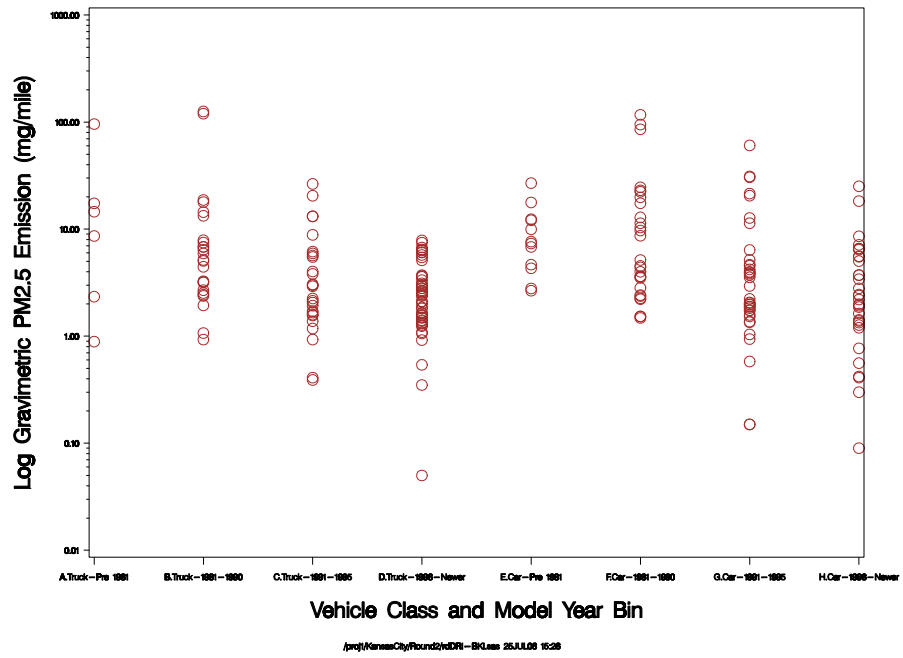
Bag 2- Transient (Log Scale)



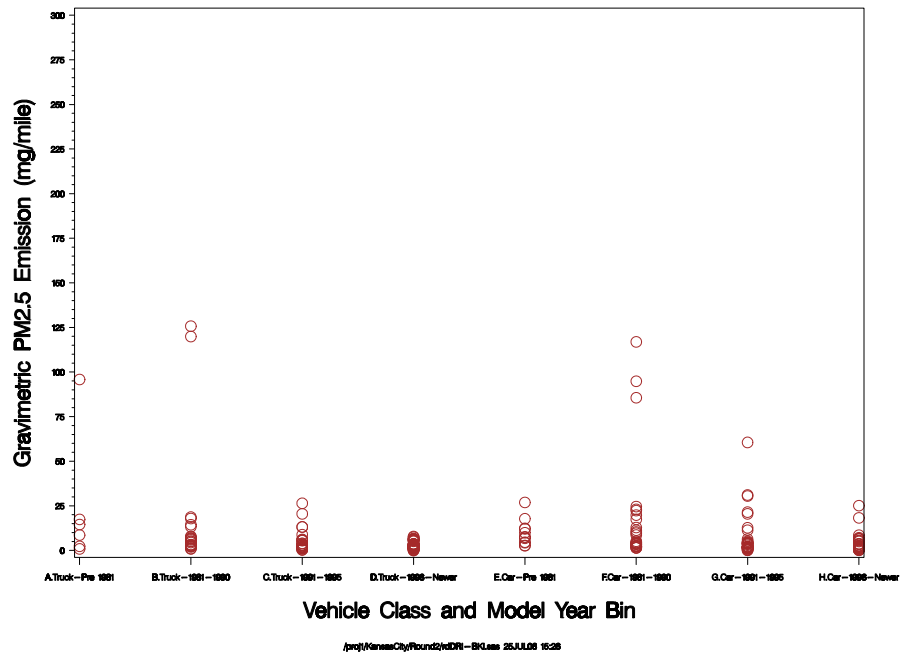
Bag 2- Transient (Linear Scale)



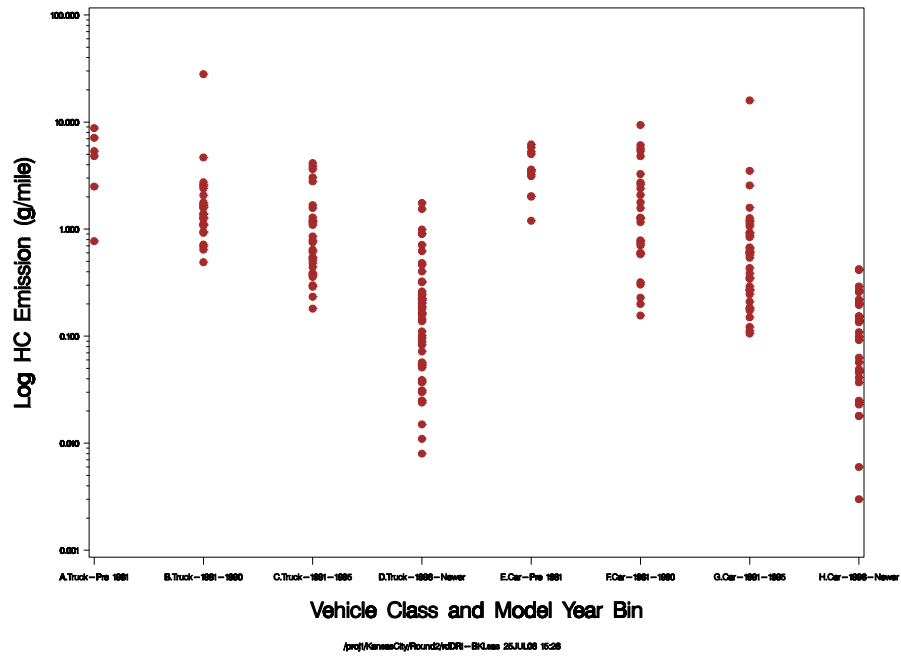
Bag 3– Warm Start (Log Scale)



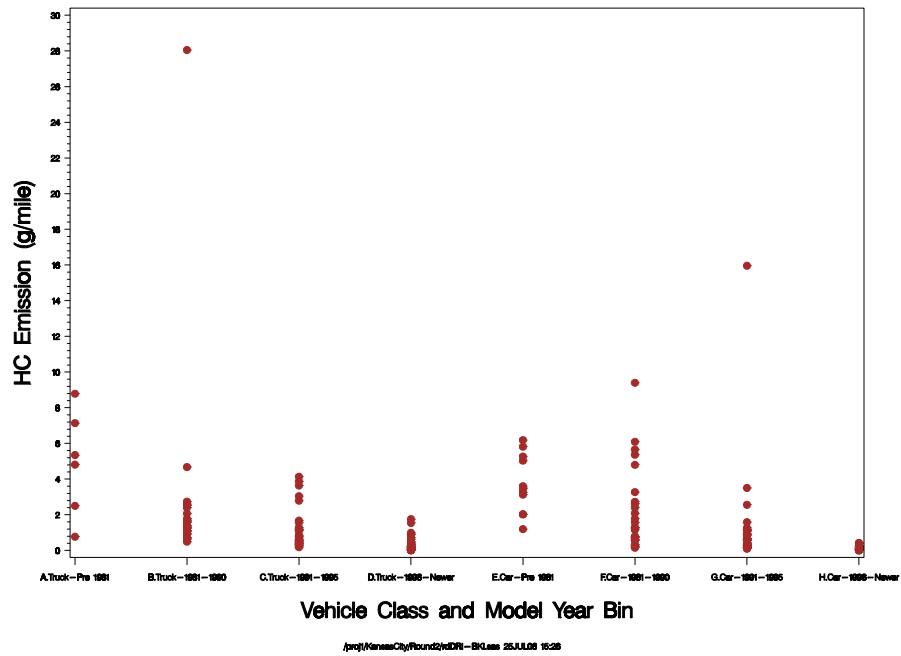
Bag 3– Warm Start (Linear Scale)



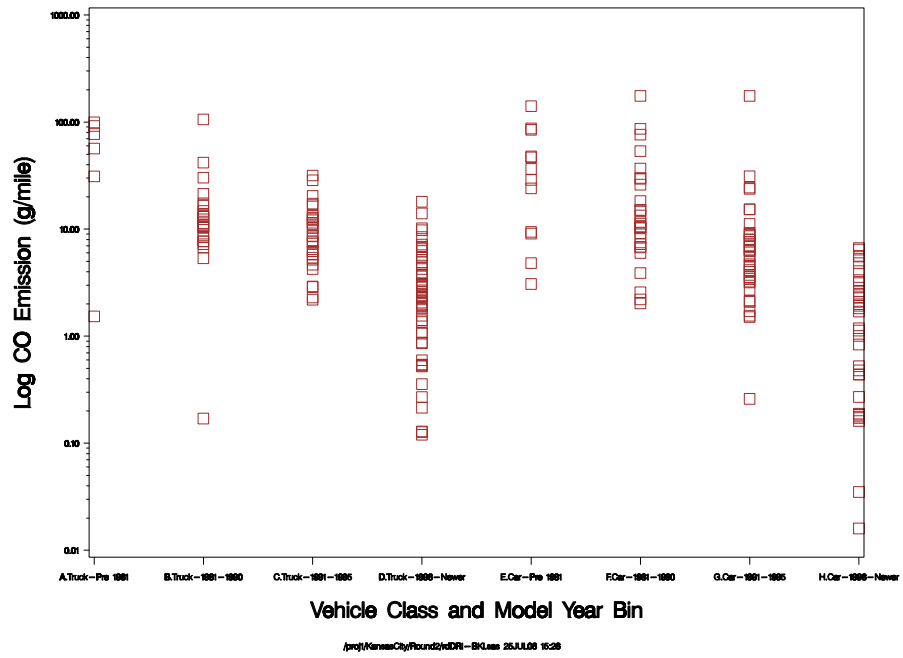
Bag 3– Warm Start (Log Scale)



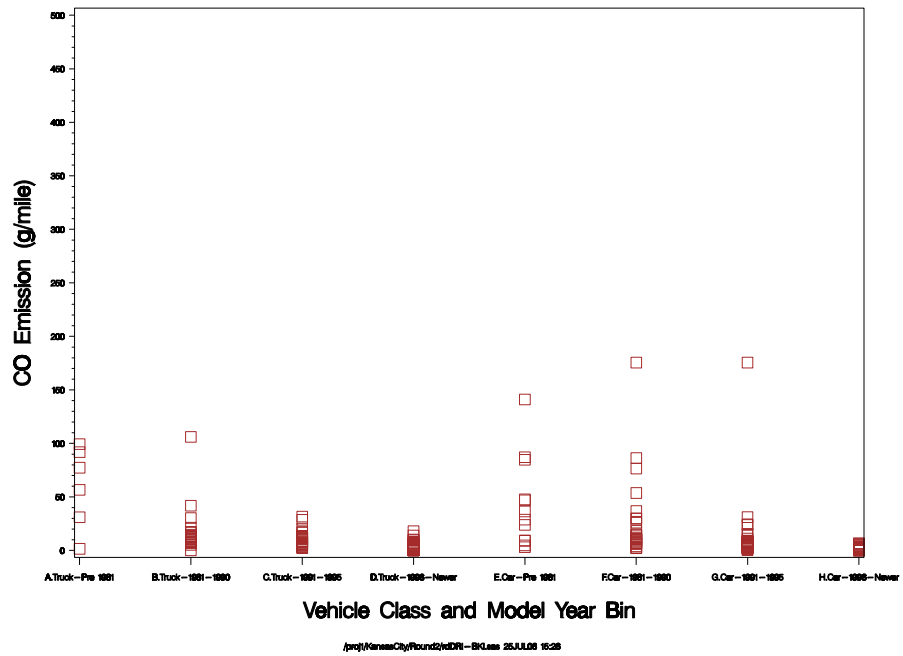
Bag 3– Warm Start (Linear Scale)



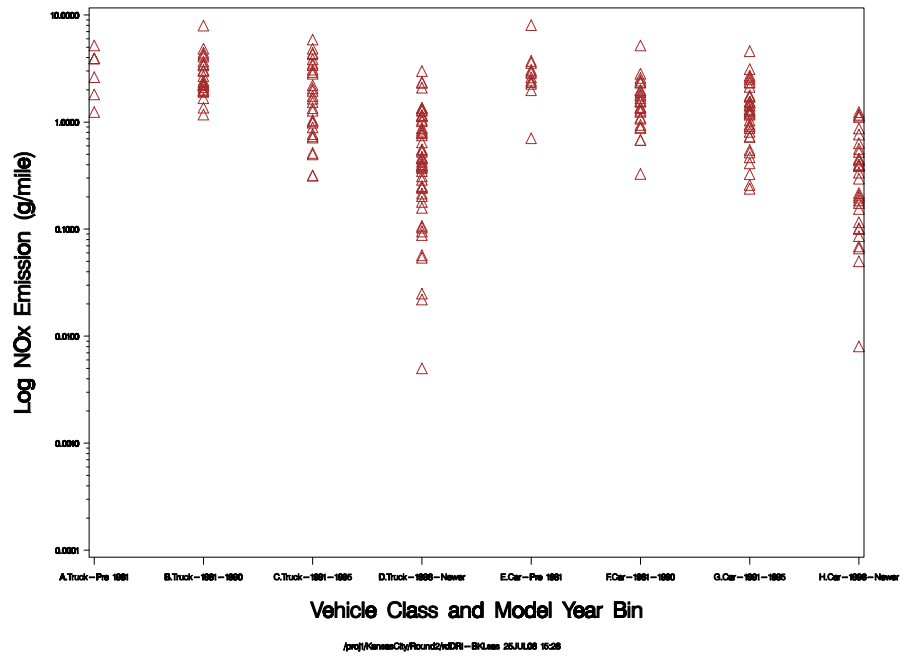
Bag 3– Warm Start (Log Scale)



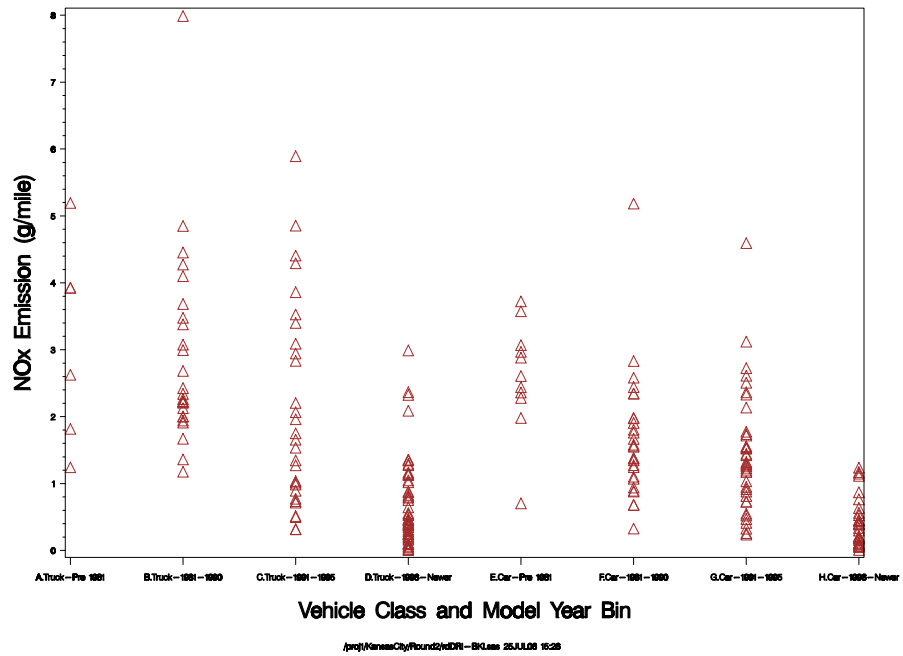
Bag 3– Warm Start (Linear Scale)



Bag 3– Warm Start (Log Scale)

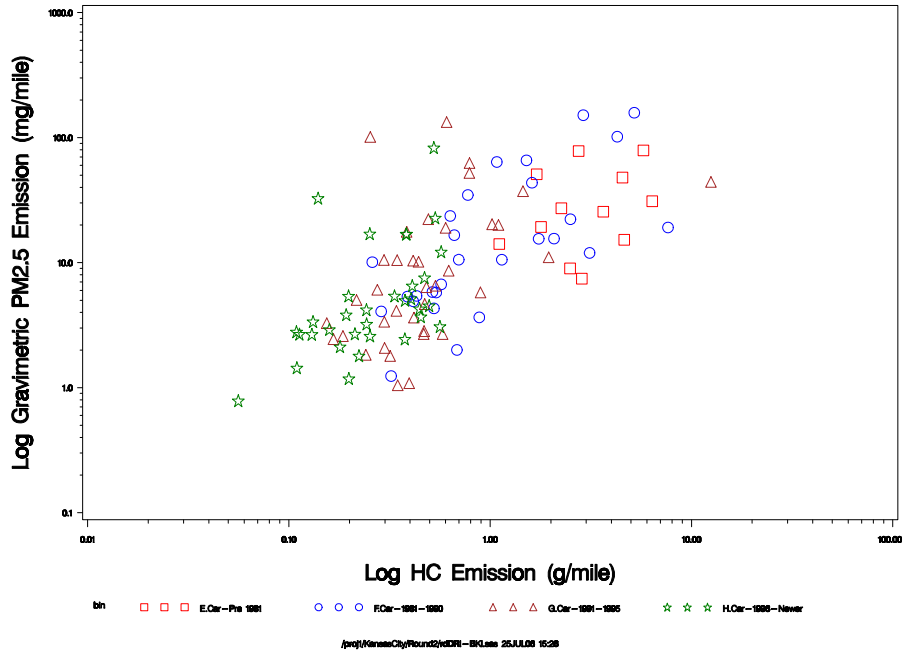


Bag 3– Warm Start (Linear Scale)

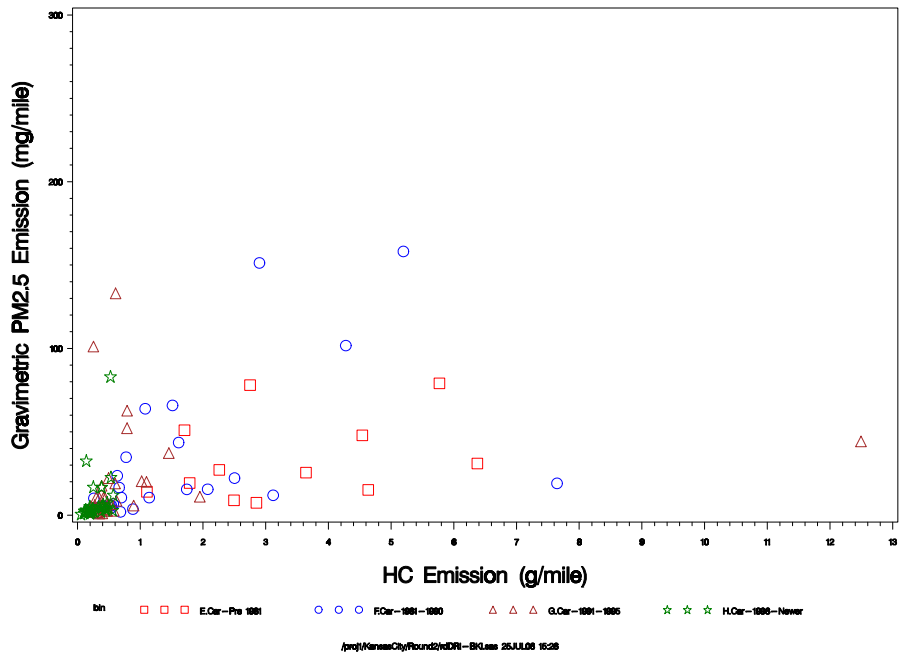


Scatter Plots of Dynamometer Measurements vs. PM_{2.5} Measured by Gravimetric Mass-DRI

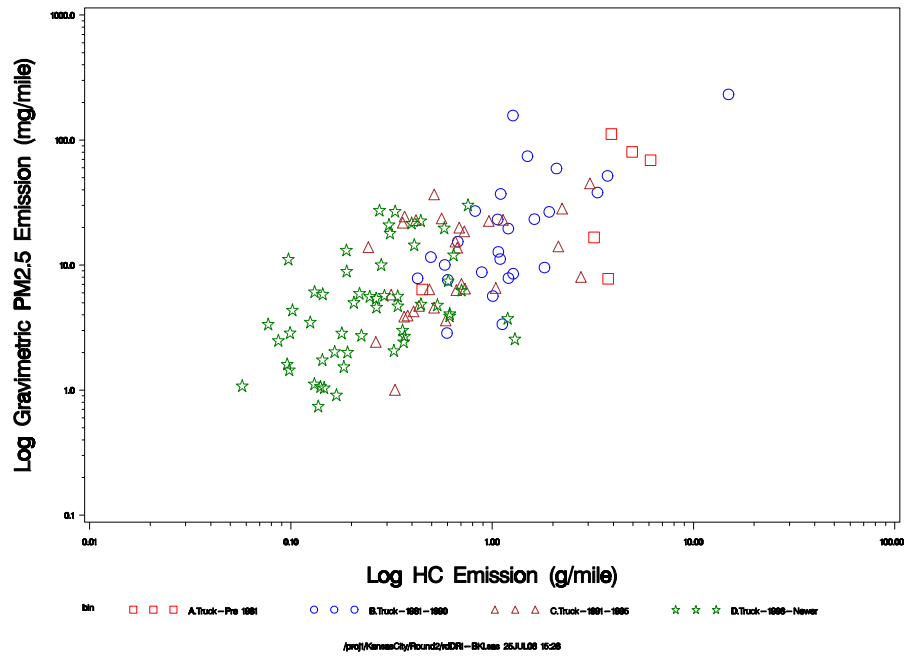
Scatter Plot of Composite PM2.5 vs Composite HC (Log Scale) – CAR



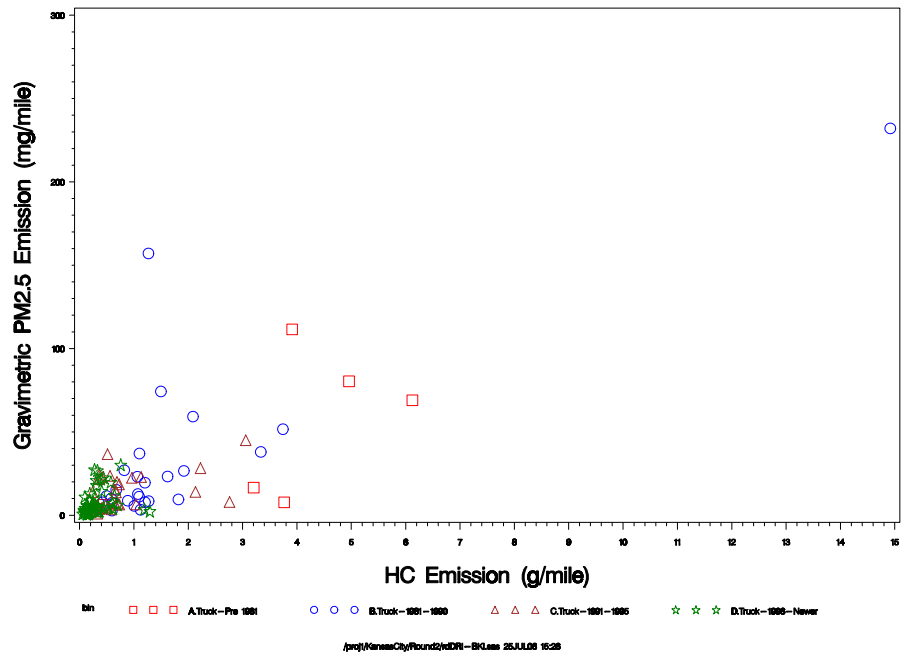
Scatter Plot of Composite PM2.5 vs Composite HC (Linear Scale) – CAR



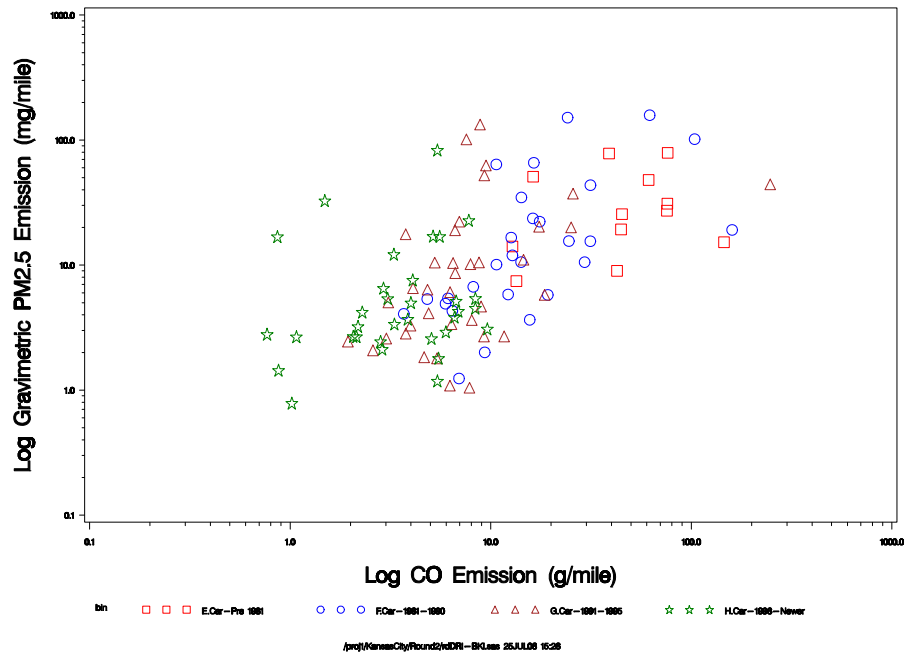
Scatter Plot of Composite PM2.5 vs Composite HC (Log Scale) – TRUCK



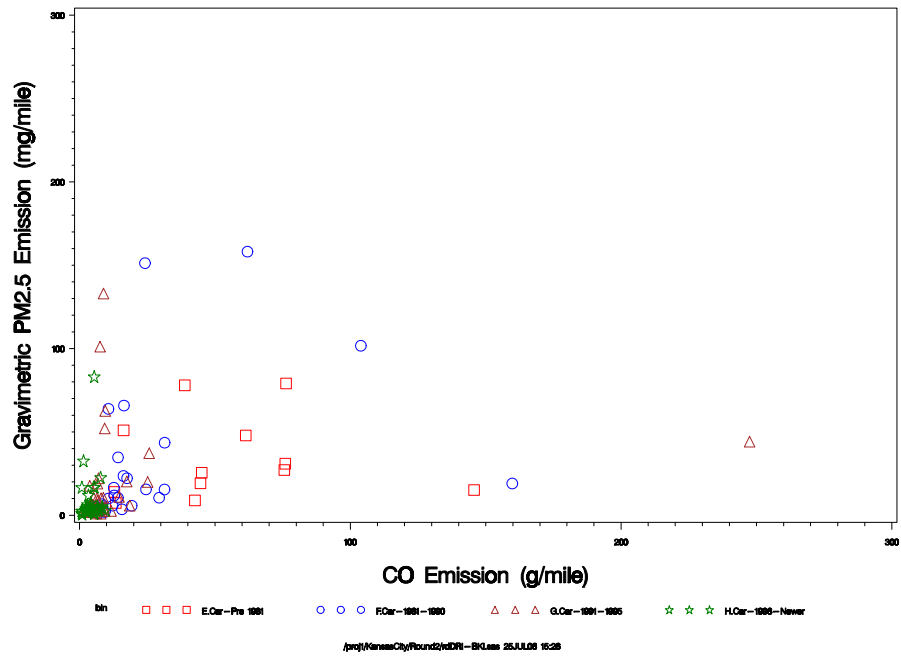
Scatter Plot of Composite PM2.5 vs Composite HC (Linear Scale) – TRUCK



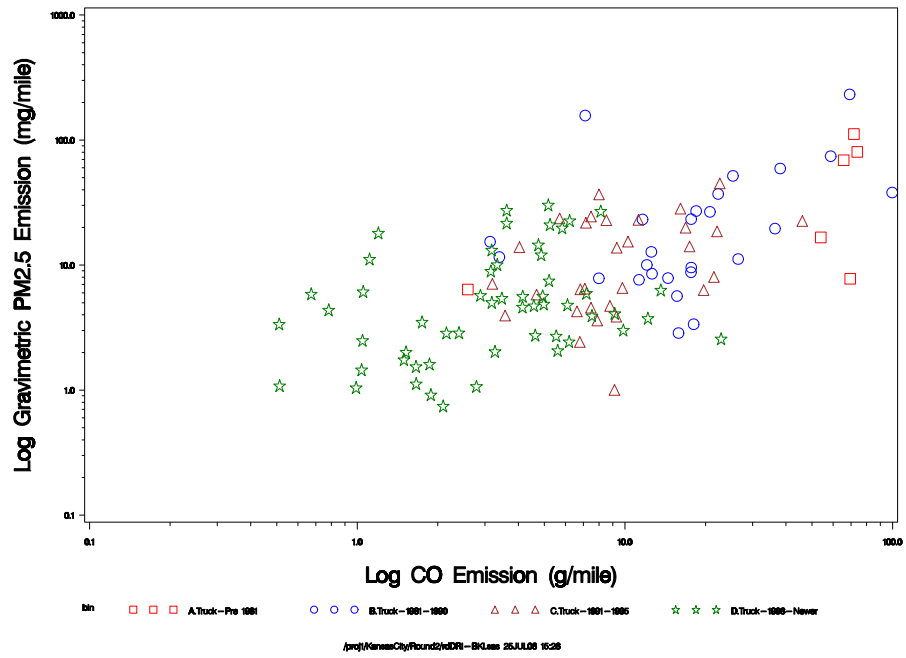
Scatter Plot of Composite PM2.5 vs Composite CO (Log Scale) – CAR



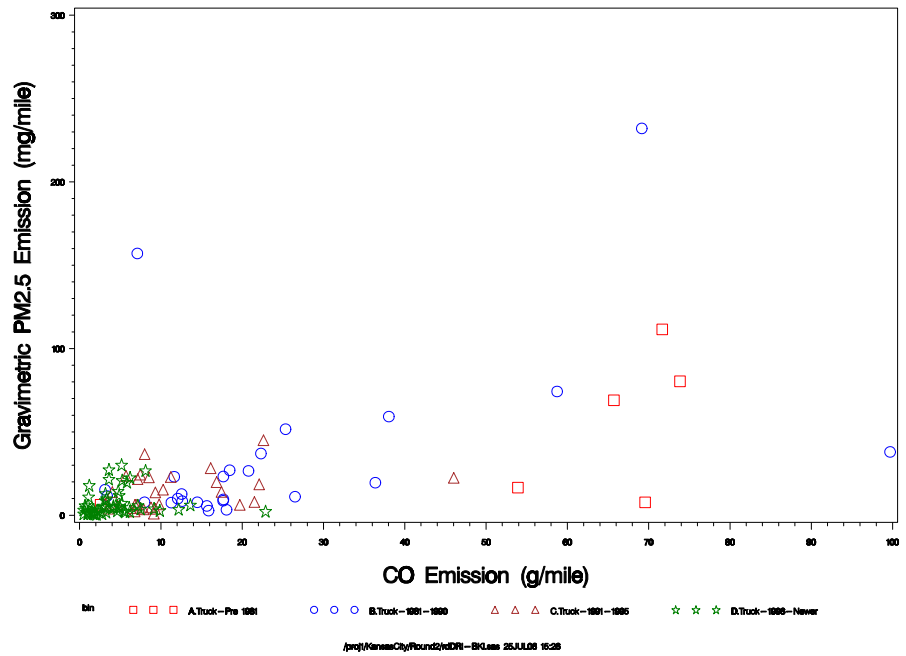
Scatter Plot of Composite PM2.5 vs Composite CO (Linear Scale) – CAR



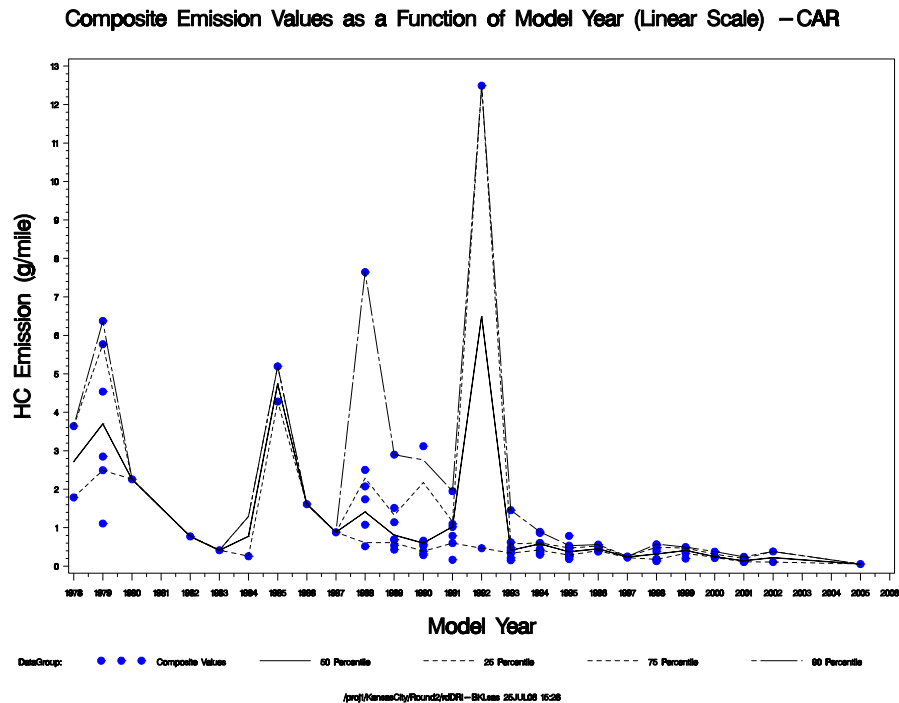
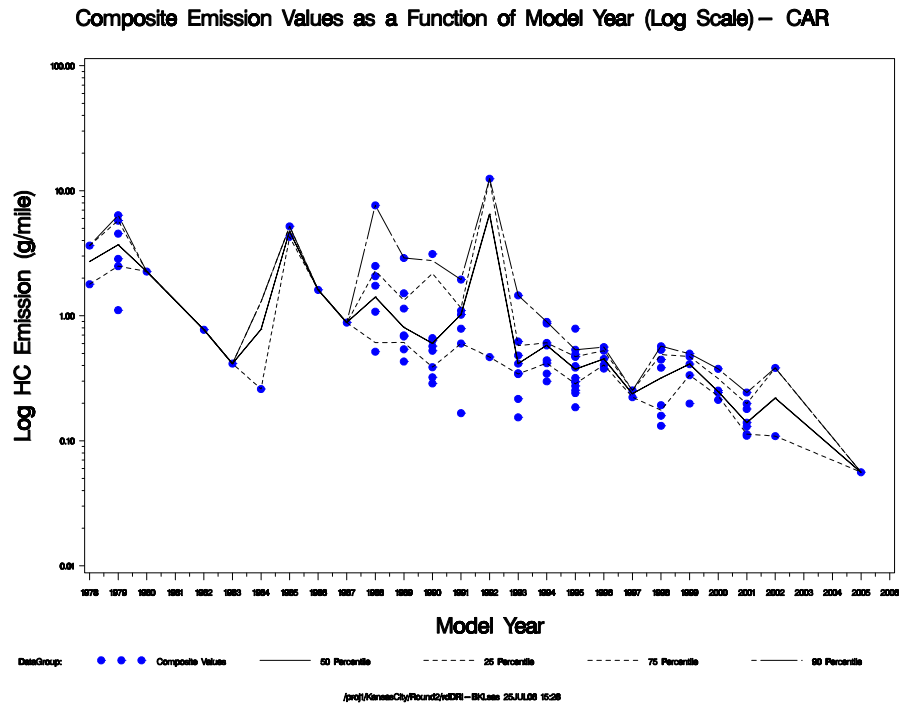
Scatter Plot of Composite PM2.5 vs Composite CO (Log Scale) – TRUCK



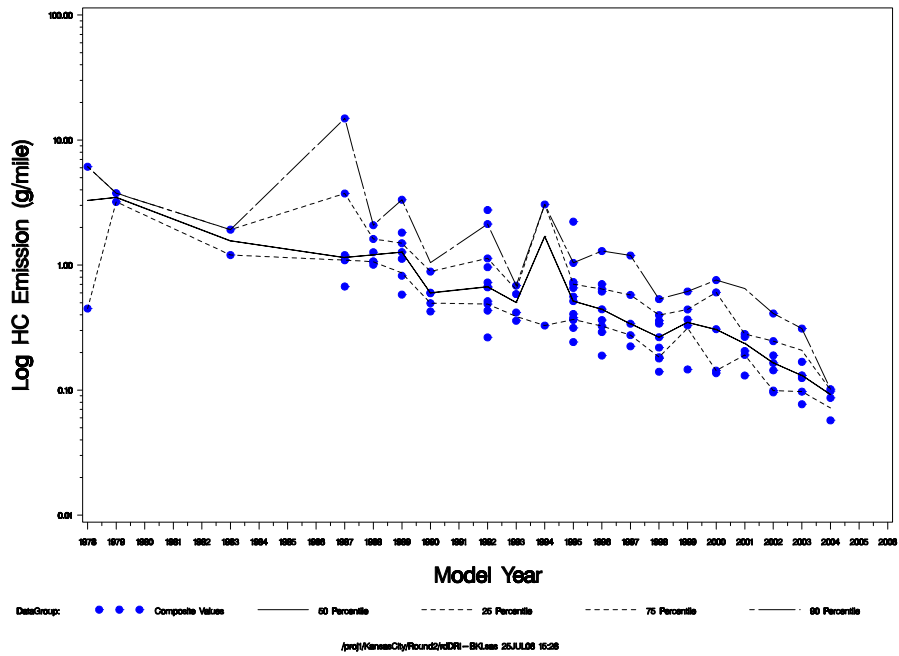
Scatter Plot of Composite PM2.5 vs Composite CO (Linear Scale) – TRUCK



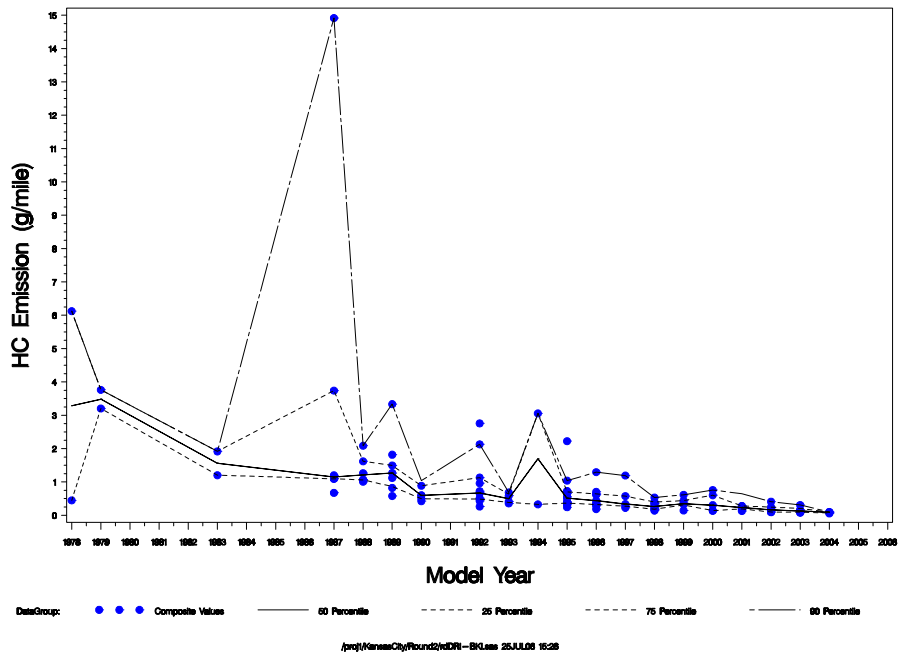
Plots of Dynamometer Measurements as a Function of Model Year



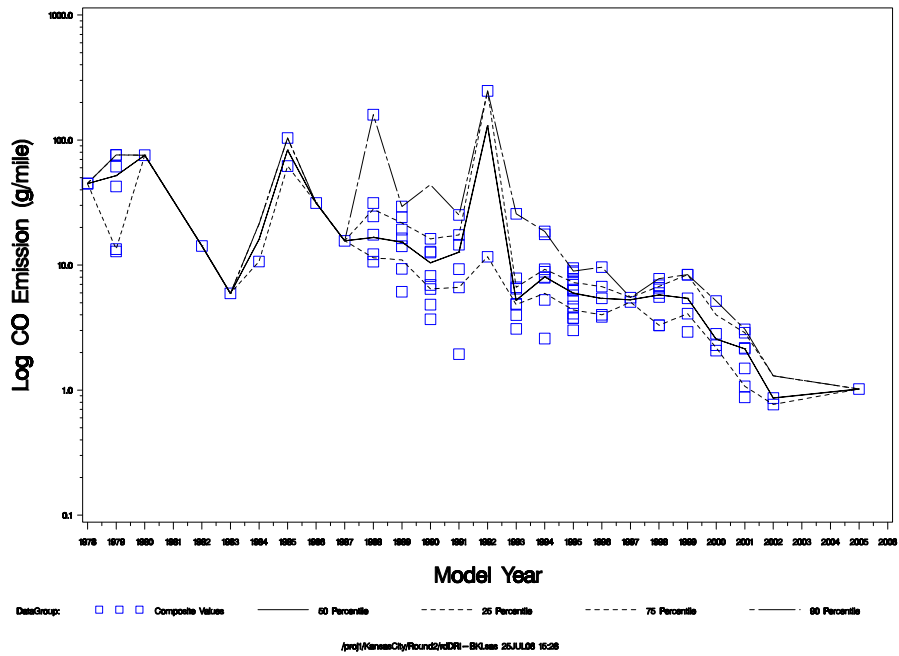
Composite Emission Values as a Function of Model Year (Log Scale) – TRUCK



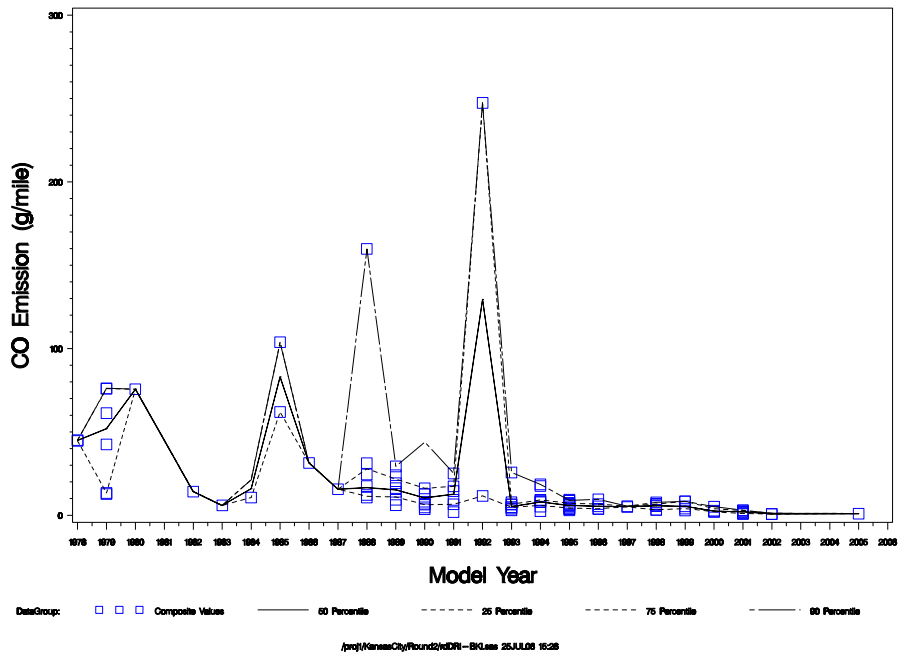
Composite Emission Values as a Function of Model Year (Linear Scale) – TRUCK



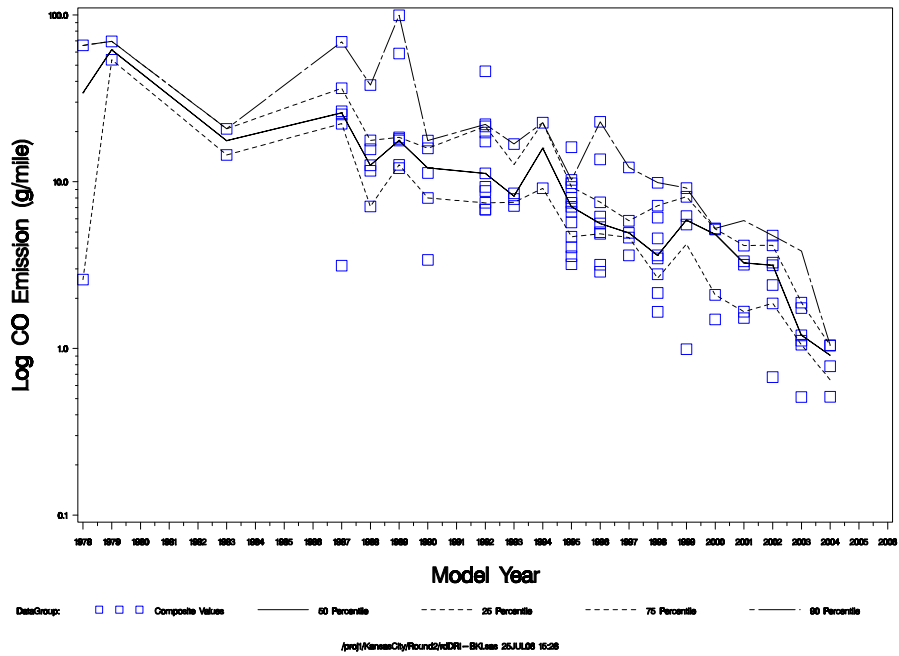
Composite Emission Values as a Function of Model Year (Log Scale) – CAR



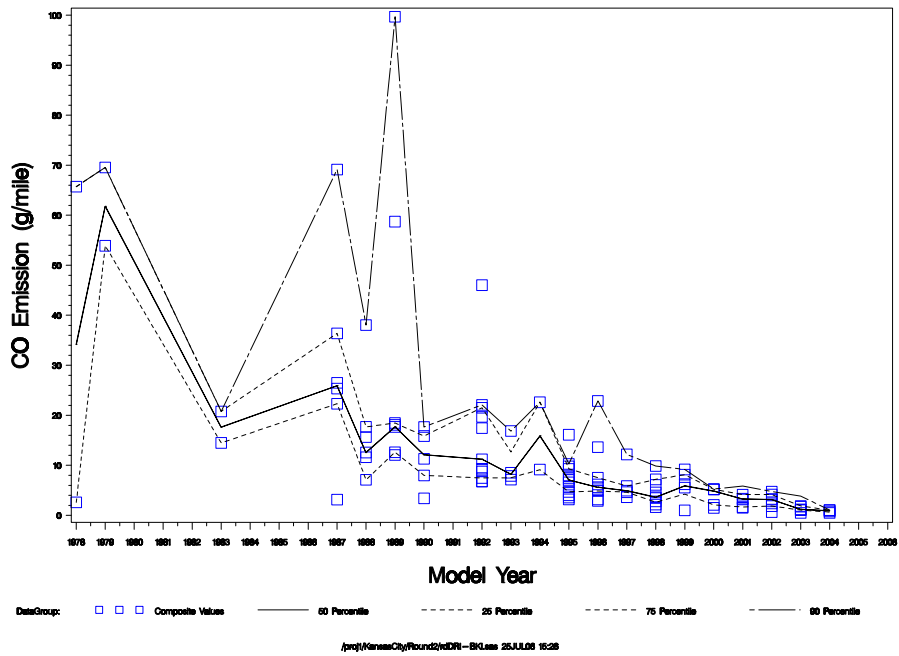
Composite Emission Values as a Function of Model Year (Linear Scale) – CAR



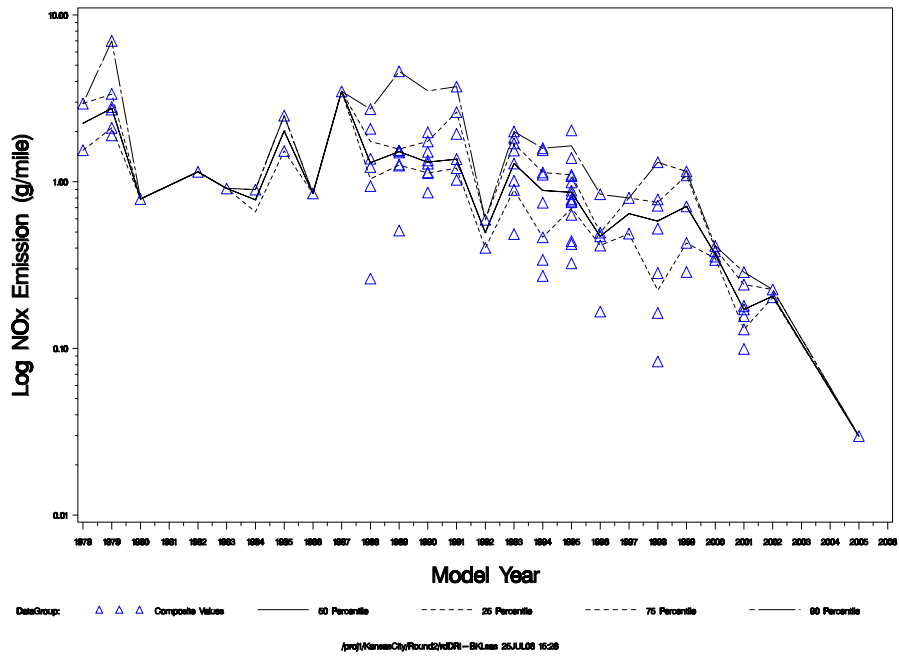
Composite Emission Values as a Function of Model Year (Log Scale) – TRUCK



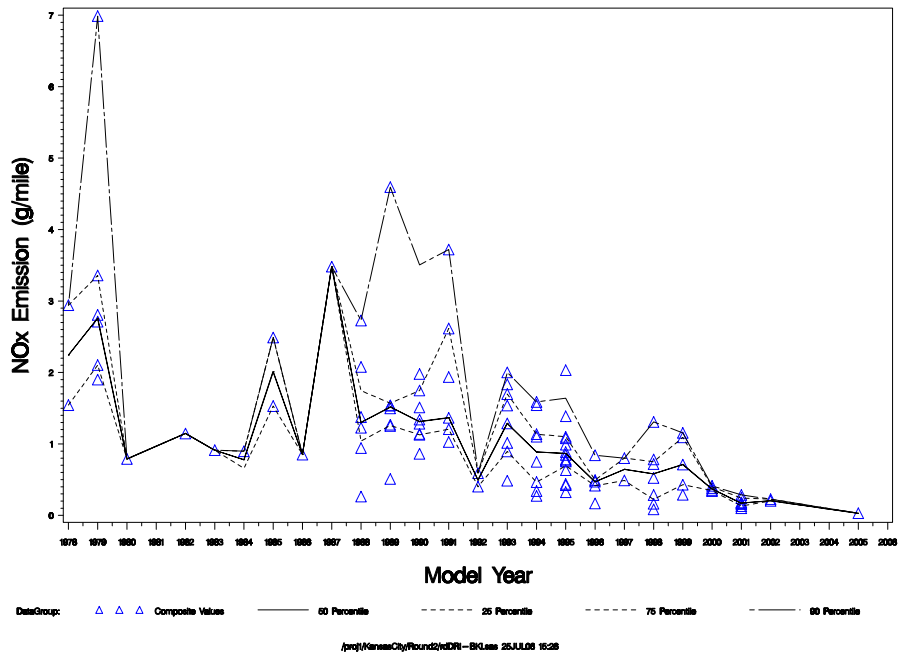
Composite Emission Values as a Function of Model Year (Linear Scale) – TRUCK



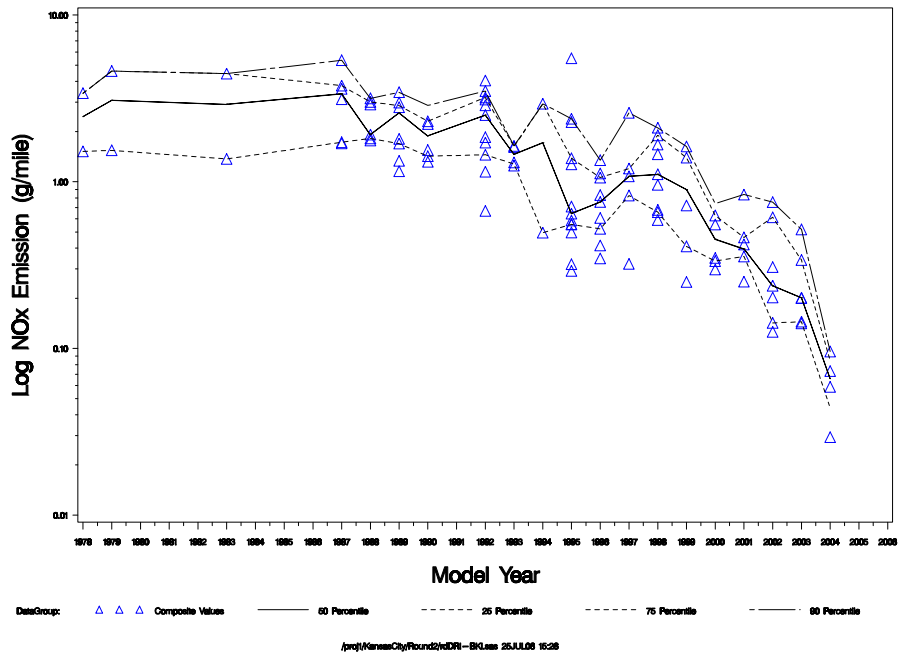
Composite Emission Values as a Function of Model Year (Log Scale) – CAR



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

