

# Kansas City PM Characterization Study

## Final Report

### Appendix V

### Round 2 Dynamometer

### Test Issues

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

#### Sponsors:

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

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United States  
Environmental Protection  
Agency

EPA420-R-08-009  
April 2008

Run #	Veh Yr, Make, Model	Odometer (Miles)	Inertia (Lbs)	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84393	1999 Chrysler 300M	90240	3500	5.8	9:21 a.m.	01/12/2005	CVS bags not fully evacuated prior to start of test.	
84394	2000 Honda Odyssey	74601	4500	9.6	10:45 a.m.	01/12/2005		
84395	0.00	0	0	0.0	12:00 AM	01/12/2005		
84396	1995 Ford Escort	106996	2750	5.6	1:05 p.m.	01/12/2005		
84397	1975 Chevrolet Silverado 20 PU	2893	4000	13.9	2:45 p.m.	01/12/2005		
84398	2001 Honda Accord	62350	3500	7.8	9:20 a.m.	01/13/2005		
84399	1997 Honda Accord	82926	3000	4.9	10:45 a.m.	01/13/2005		
84400	0.00	0	0	0.0	12:00 AM	01/13/2005		
84401	1998 Plymouth Voyager	168876	4000	7.0	1:28 p.m.	01/13/2005		
84402	1991 Honda Civic	220022	2500	6.5	2:58 p.m.	01/13/2005		
84403	2000 Dodge Caravan	85198	3500	7.2	8:45 a.m.	01/14/2005		
84404	1997 Dodge Caravan	96455	3500	7.2	10:27 a.m.	01/14/2005		
84405	0.00	0	0	0.0	10:30 a.m.	01/14/2005		
84406	1995 Toyota Corolla	107983	2500	6.0	1:04 p.m.	01/14/2005		
84407	1989 Pontiac GrandAm	123575	3000	5.9	2:23 p.m.	01/14/2005		
84408	2002 Mercury Sable	29501	3500	6.8	8:29 a.m.	01/15/2005	No tunnel heater during Phase 3 of test.	
84409	1999 Chevrolet Malibu	79925	3500	5.8	10:40 a.m.	01/15/2005	CVS bags not fully evacuated prior to start of test.	
84410	0.00	0	0	0.0	12:00 AM	01/15/2005		
84411	1996 Saturn SC	78346	2500	6.0	1:14 p.m.	01/15/2005		
84412	1996 Honda Civic	140479	2500	6.9	3:00 p.m.	01/15/2005		
84413	1979 Ford F250 PU	5797	3500	10.5	4:15 p.m.	01/15/2005		
84414	2003 Chevrolet Impala	11340	3500	2.9	8:19 a.m.	01/17/2005	Possible high background concentration due to truck running outside building during Phase 1.	x
84415	1999 Dodge Durango	95999	5000	16.9	9:50 a.m.	01/17/2005		
84416	1998 Honda Civic	118218	2500	5.1	11:09 a.m.	01/17/2005		
84417	0.00	0	0	0.0	11:00 a.m.	01/17/2005	Generator stopped at start of Phase 3, so no tunnel heater during Phase 3.	
84418	1997 Pontiac Grand Am	58100	3000	3.8	1:47 p.m.	01/17/2005		
84419	1998 Chevrolet Lumina	79187	3500	5.5	4:05 p.m.	01/17/2005		
84420	2000 Honda Accord	84180	3500	7.5	8:11 a.m.	01/18/2005		
84421	2000 Saturn Sedan	51721	2750	4.0	9:26 a.m.	01/18/2005		
84422	1998 Jeep Cherokee	137053	3500	11.8	10:51 a.m.	01/18/2005	Possible high background concentration due to truck running outside building.	x
84423	0.00	0	0	0.0	11: a.m.	01/18/2005		
84424	1995 Ford Explorer	162634	4500	11.5	1:19 p.m.	01/18/2005		
84425	1995 Jeep Grand Cherokee Laredo	179121	4000	13.1	2:45 p.m.	01/18/2005		
84426	2001 Saturn Sedan	44251	2750	3.7	8:10 a.m.	01/19/2005		
84427	2001 Mitsubishi Galant	51764	2750	3.7	9:52 a.m.	01/19/2005		
84428	1998 Chevrolet Malibu	107047	3500	5.9	11:14 a.m.	01/19/2005		
84429	0.00	0	0	0.0	12 p.m.	01/19/2005		
84430	1990 Dodge Spirit	93661	3000	8.2	1:47 p.m.	01/19/2005	CVS bags not fully evacuated prior to start of test. Possible high background concentration due to oil burning on exhaust system.	x
84431	1991 Mercury Grand Marquis S/W	19292	4000	10.3	3:15 p.m.	01/19/2005		
84432	1999 Saturn Sedan	98565	2500	5.5	8:09 a.m.	01/20/2005		
84433	1997 Jeep Wrangler	97532	3500	16.1	9:40 a.m.	01/20/2005		
84434	QAZ044	0	Void	0.0	10:55 a.m.	01/20/2005	Real-time computer rebooted 850 seconds into test.	x
84435	0.00	0	0	0.0	11:30 a.m.	01/20/2005		
84436	1995 Chevrolet S10 PU	124976	3500	10.8	1:02 p.m.	01/20/2005	Possible drive trace violations due to bad brakes.	
84437	1994 Toyota Camry	131874	3500	7.2	2:20 p.m.	01/20/2005		
84438	2001 Buick Century	33749	3500	5.3	8:08 a.m.	01/21/2005		
84439	1995 Pontiac Bonneville	168145	3500	5.3	9:22 a.m.	01/21/2005	Possible high background concentration due to oil burning on exhaust system.	x

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84440	1995 Buick Park Avenue	144956	4000	7.2	10:39 a.m.	01/21/2005	Possible high background concentration due to oil burning on exhaust system.	x
84441	0.00	0	0	0.0	11:15 a.m.	01/21/2005		
84442	1994 Toyota Camry	131894	3500	7.2	1:20 p.m.	01/21/2005		
84443	1991 Geo Prizm	132326	2500	7.4	2:27 p.m.	01/21/2005		
84444	2003 Chevrolet Tracker	29519	3000	12.7	8:10 a.m.	01/22/2005		
84445	2001 Saturn Sedan	67290	3000	6.4	9:39 a.m.	01/22/2005		
84446	2000 Toyota Sienna	137493	4000	6.5	10:56 a.m.	01/22/2005		
84447	0.00	0	0	0.0	11:39 a.m.	01/22/2005		
84448	1999 Plymouth Voyager	79230	4000	6.4	1:25 p.m.	01/22/2005	Possible dilution due to exhaust leak.	
84449	1994 Buick Regal	92177	3500	5.6	2:40 p.m.	01/22/2005	Loading suspect due to excessive PAU dyno noise.	
84450	1988 Ford Taurus	13729	3500	4.0	4:00 p.m.	01/22/2005	Loading suspect due to excessive PAU dyno noise.	
84451	1994 Buick Regal	92214	3500	5.6	8:22 a.m.	01/25/2005	NOx reading suspect due to NOx drift.	x
84452	1995 Ford Taurus	139316	3500	6.5	9:44 a.m.	01/25/2005		
84453	1995 Nissan Maxima	181395	3500	6.5	10:57 a.m.	01/25/2005		
84454	0.00	0	0	0.0	11:30 a.m.	01/25/2005		
84455	1995 Ford Mustang	146289	3500	7.5	1:15 p.m.	01/25/2005	Possible drive trace violations (braking).	
84456	1993 Pontiac Grand Prix	177931	3500	5.0	2:35 p.m.	01/25/2005		
84457	1995 Ford Crown Vic	179731	4000	8.5	8:20 a.m.	01/26/2005	Possible drive trace violations (braking).	
84458	1993 Ford Aerostar	147319	3500	11.1	9:32 a.m.	01/26/2005	Possible drive trace violations (braking).	
84459	1992 Ford Aerostar	164560	3500	11.4	10:50 a.m.	01/26/2005	Possible drive trace violations (braking).	
84460	0.00	0	0	0.0	11:45 a.m.	01/26/2005		
84461	1988 Ford Taurus	13748	3500	4.0	1:11 p.m.	01/26/2005		
84462	1989 Plymouth Voyager	145307	3500	7.6	2:25 p.m.	01/26/2005		
84463	1995 Ford Contour	104083	3000	5.0	8:15 a.m.	01/27/2005		
84464	1994 Dodge Intrepid	145950	3500	5.1	9:30 a.m.	01/27/2005	No NOx data for Phase 3.	x
84465	1994 Chevrolet Lumina APV	124172	4000	8.9	10:50 a.m.	01/27/2005		
84466	0.00	0	0	0.0	11:50 a.m.	01/27/2005		
84467	1988 Ford Ranger PU	77528	3500	10.2	1:30 p.m.	01/27/2005	Possible drive trace violations.	
84468	1994 Chevrolet Lumina APV	124200	4000	8.9	8:18 a.m.	01/28/2005		
84469	1989 Dodge Caravan	162878	3500	7.6	10:00 a.m.	01/28/2005	Possible high background concentration due to oil burning on exhaust system.	x
84470	1973 Mercedes 280 SE	86134	4000	11.4	11:10 a.m.	01/28/2005	Real-time instruments saturated. Background HC readings suspect due to cell saturation., Phase 2 dilution temp over 50C.	x
84471	0.00	0	0	0.0	12:00 p.m.	01/28/2005		
84472	1977 Chevrolet Monte Carlo	36999	4000	11.6	2:00 p.m.	01/28/2005	Possible drive trace violations (braking).	
84473	1996 Ford Explorer	109593	4500	11.8	8:15 a.m.	01/29/2005	Possible drive trace violations (braking).	
84474	1988 Honda Civic	207265	2250	6.4	9:30 a.m.	01/29/2005		
84475	1986 Ford Tempo	70396	2500	6.9	10:40 a.m.	01/29/2005	Vehicle stalled during Phase 2.	
84476	0.00	0	0	0.0	12:00 p.m.	01/29/2005		
84477	1989 Dodge Ram 50	133981	3500	15.0	1:45 p.m.	01/29/2005	Possible drive trace violations.	
84478	1996 Dodge Neon	79839	2500	7.2	8:20a.m.	01/31/2005	Realtime computer failed during test.	x
84479	1996 Dodge Caravan	118369	4000	7.2	9:22 a.m.	01/31/2005		
84480	1988 Ford Taurus	13768	3500	4.0	10:42 a.m.	01/31/2005	Possible high background concentrations due to building evacuation fan being turned off.	x
84481	0.00	0	0	0.0	12:00 a.m.	01/31/2005		
84482	1979 Buick Lesabre	40364	3500	10.5	1:30 p.m.	01/31/2005		
84483	1996 Dodge Neon	79848	2500	7.2	8:10 a.m.	02/01/2005		
84484	1979 Buick Lesabre	40385	3500	10.5	9:24 a.m.	02/01/2005		
84485	1991 Cadillac Fleetwood	97124	4000	6.9	11:00 a.m.	02/01/2005	Possible drive trace violations during Phase 3.	
84486	0.00	0	0	0.0	11:50 a.m.	02/01/2005		
84487	1992 Mazda B2200 PU	101090	3000	10.7	1:40 p.m.	02/01/2005		
84488	1995 Buick Lesabre	126036	3500	7.1	8:10 a.m.	02/02/2005	Tedlar bags not evacuated prior to test.	

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84489	1987 Toyota PU	232098	2750	9.6	9:33 a.m.	02/02/2005	Possible dilution due to exhaust leaks.	
84490	1991 Cadillac Fleetwood	97144	4000	6.9	10:50 a.m.	02/02/2005		
84491	0.00	0	0	0.0	12:00 p.m.	02/02/2005		
84492	1984 Chevy C-10 Silverado	82259	4000	15.2	1:25 p.m.	02/02/2005		
84493	2004 Ford Freestar Minivan	14714	4500	10.0	8:36 a.m.	02/03/2005		
84494	1997 Ford Ranger PU	118470	3500	10.9	10:00 a.m.	02/03/2005	2.	
84495	1996 GMC Sonoma PU	51863	3000	9.2	11:00 a.m.	02/03/2005	Possible drive trace violations (braking).	
84496	0.00	0	0	0.0	12:00 p.m.	02/03/2005		
84497	1995 Toyota 4 Runner	85898	4000	12.9	1:44 p.m.	02/03/2005	Vehicle stalled during Phase 2.	
84498	2001 Toyota Sienna	59734	4000	10.0	8:23 a.m.	02/04/2005		
84499	1995 Acura Integra	80579	2750	7.2	9:30 a.m.	02/04/2005		
84500	1998 Nissan Frontier PU	112521	3500	11.0	10:57 a.m.	02/04/2005	Possible drive trace violations (braking).	
84501	0.00	0	0	0.0	12:10 p.m.	02/04/2005		
84502	1996 Chrysler Concorde	111502	3500	7.7	1:40 p.m.	02/04/2005		
84503	2002 Ford Taurus	26406	4000	8.0	8:20 a.m.	02/05/2005		
84504	2000 Chrysler Concorde	65330	3000	11.3	9:30 a.m.	02/05/2005		
84505	1993 Dodge Intrepid	210298	3500	6.8	10:52 a.m.	02/05/2005		
84506	0.00	0	0	0.0	12:00 p.m.	02/05/2005		
84507	1988 Ford Taurus	13788	3500	4.0	1:30 p.m.	02/05/2005		
84508	1992 Honda Civic	124705	2250	4.6	8:19 a.m.	02/07/2005		
84509	1992 Chevrolet Astrovan	217165	4000	12.5	9:40 a.m.	02/07/2005		
84510	1994 Chevrolet Suburban	187410	5500	10.8	10:50 a.m.	02/07/2005		
84511	0.00	0	0	0.0	11:25 a.m.	02/07/2005		
84512	1982 Chevrolet Caprice	88587	4000	4.6	1:24 p.m.	02/07/2005	Possible high background concentrations due to smoke, HC and CO instruments pegged.	x
84513	0.00	VOID	0	0.0	8:00 a.m.	02/08/2005	Voided run	
84514	2002 Chrysler Concorde	34231	3500	7.8	8:49 a.m.	02/08/2005	Possible high background concentrations due to diesel truck running outside.	x
84515	1999 Dodge Stratus	108838	3000	5.5	10:06 a.m.	02/08/2005		
84516	0.00	0	0	0.0	12:38 p.m.	02/08/2005		
84517	1998 Dodge Caravan	80989	4000	7.9	12:38 p.m.	02/08/2005		
84518	1994 Buick Skylark	200811	3000	5.4	1:52 p.m.	02/08/2005		
84519	1992 Dodge Caravan	213493	3500	8.0	3:07 p.m.	02/08/2005		
84520	2001 Ford Taurus	47479	3500	6.8	8:30 a.m.	02/09/2005		
84521	1997 Honda Accord	101888	3000	4.9	9:44 a.m.	02/09/2005		
84522	1996 Chevrolet 1500 PU	46711	4000	12.2	10:58 a.m.	02/09/2005		
84523	0.00	0	0	0.0	11:30 a.m.	02/09/2005		
84524	1995 Isuzu PU	87225	3000	12.0	1:30 p.m.	02/09/2005		
84525	1993 CHEVROLET ASTRO, VUE539	0	0	0.0		02/09/2005	Voided run	x
84526	1991 Lincoln Towncar	188033	4000	7.1	3:10 p.m.	02/09/2005		
84527	1995 Dodge Ram 1500 PU	93425	4000	15.0	8:21 a.m.	02/10/2005		
84528	1994 Mercury Grand Marquis	130521	4000	10.7	9:38 a.m.	02/10/2005		
84529	1993 Plymouth Sundance	84652	2750	6.3	10:53 a.m.	02/10/2005		
84530	0.00	0	0	0.0	12:00 p.m.	02/10/2005		
84531	1992 Geo Tracker	48704	2750	14.5	1:28 p.m.	02/10/2005		
84532	2003 Pontiac Montana	49337	4500	10.1	8:09 a.m.	02/11/2005	Invalid RH value (battery in hygrometer dead), used airport data	x
84533	1999 Chevrolet Suburban	88900	5000	12.5	9:26 a.m.	02/11/2005	Invalid RH value (battery in hygrometer dead), used airport data Possible dilution due to tailpipe disconnect at 1000 seconds into test. Invalid RH value (battery in hygrometer dead)., used airport data	x
84534	1993 Subaru Legacy	114227	3500	9.0	10:44 a.m.	02/11/2005		x
84535	0.00	0	0	0.0	11:55 a.m.	02/11/2005		

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84536	1988 Ford Taurus	13809	3500	4.0	1:10 p.m.	02/11/2005	Bags inadvertently evacuated during Phases 1 and 2. Invalid RH value (battery in hygrometer dead), used airport data.	x
84537	2000 Jeep Cherokee	88513	3500	12.5	8:10 a.m.	02/12/2005		x
84538	1998 Ford Ranger PU	48208	3500	11.7	9:23 a.m.	02/12/2005	HC2 malfunction during Phase III.	
84539	1996 Chevrolet Tahoe	69010	4500	12.5	10:37 a.m.	02/12/2005		
84540	0.00	0	0	0.0	11:30 a.m.	02/12/2005		
84541	1996 Dodge Caravan	161280	4000	7.2	1:19 p.m.	02/12/2005		
84542	1996 Dodge Caravan	161308	4000	7.2	8:25 a.m.	02/14/2005		
84543	2000 Jeep Cherokee	88541	3500	12.5	9:43 a.m.	02/14/2005		
84544	1988 Ford Taurus	13828	3500	4.0	11:40 a.m.	02/14/2005		
84545	0.00	0	0	0.0	12:40 p.m.	02/14/2005		
84546	1999 Dodge Dakota PU	64155	3500	9.6	8:04 a.m.	02/15/2005		
84547	1995 Toyota Corolla	103068	2750	6.0	9:18 a.m.	02/15/2005		
84548	1995 Dodge Intrepid	138989	3500	5.9	10:41 a.m.	02/15/2005		
84549	0.00	0	0	0.0	12:15 p.m.	02/15/2005		
84550	1988 Lincoln Continental	31667	4000	8.3	1:08 p.m.	02/15/2005		
84551	2002 Isuzu Axiom	46363	4000	13.4	8:06 a.m.	02/16/2005		
84552	2002 Oldsmobile Silhouette	61168	4000	9.2	9:20 a.m.	02/16/2005		
84553	2002 Dodge Durango	VOID	0	0.0	10:30 a.m.	02/16/2005	Voided run	x
84554	1992 Ford F50 PU	134791	4500	14.6	10:48 a.m.	02/16/2005		
84555	0.00	0	0	0.0	11:55 a.m.	02/16/2005		
84556	2001 Chrysler Town & Country	75545	4500	8.4	8:09 a.m.	02/17/2005		
84557	2000 Buick Park Avenue	67099	4000	6.6	9:20 a.m.	02/17/2005		
84558	2001 Chevrolet S-10 PU	106236	4000	9.8	10:28 a.m.	02/17/2005	Numerous restarts during test.	x
84559	0.00	0	0	0.0	11:32 a.m.	02/17/2005		
84560	1998 Dodge Dakota Sport	49775	3500	11.2	12:46 p.m.	02/17/2005	No Phase 3 data.	x
84561	86 Ford Crown Victoria SW	54310	3500	9.0	1:59 p.m.	02/17/2005	Voided run	x
84562	2004 Dodge Dakota PU	8627	4000	12.6	8:02 a.m.	02/18/2005		
84563	2003 Ford Ranger 4X4 PU	18757	3500	11.5	9:16a.m.	02/18/2005		
84564	1998 Dodge Caravan	127230	4000	7.9	10:27 a.m.	02/18/2005		
84565	0.00	0	0	0.0	11:32 a.m.	02/18/2005		
84566	1995 Honda Odyssey	109044	3500	9.8	12:43 p.m.	02/18/2005		
84567	1992 Cadillac Sedan De-Ville	155895	4000	6.9	1:54 p.m.	02/18/2005		
84568	1999 Ford Ranger PU	126851	3500	9.0	8:08 a.m.	02/19/2005		
84569	1995 Ford Taurus	203067	3500	5.4	9:20 a.m.	02/19/2005		
84570	1994 Chevrolet S10 PU	63902	3000	9.8	10:30 a.m.	02/19/2005		
84571	0.00	0	0	0.0	10:35 a.m.	02/19/2005		
84572	1994 Mercury Topaz	41482	2750	7.0	1:14 p.m.	02/19/2005		
84573	1993 Buick Park Avenue	74444	4000	6.1	8:20 a.m.	02/21/2005		
84574	1993 Ford Taurus	39476	3500	5.5	9:39 a.m.	02/21/2005		
84575	1994 Chevrolet Lumina	126825	3500	5.4	10:48 a.m.	02/21/2005		
84576	0.00	0	0	0.0	10:30 a.m.	02/21/2005		
84577	1998 Ford Aerostar	0	4000	7.9	8:15 a.m.	02/22/2005		
84578	1988 Ford Taurus	13871	3500	4.0	9:15 a.m.	02/22/2005		
84579	0.00	0	0	0.0	12:00 a.m.	02/22/2005		
84580	2002 Chrysler Town & Country	84580	4500	11.1	8:19 a.m.	02/23/2005	Traction control problem at 180 seconds into test.	
84581	1995 Chevrolet Corsica	78767	3000	5.9	9:45 a.m.	02/23/2005		
84582	1988 BMW 528e	287806	3500	10.7	11:12 a.m.	02/23/2005		
84583	0.00	0	0	0.0	12:00 a.m.	02/23/2005		
84584	1995 Nissan PU	86705	3500	12.0	8:16 a.m.	02/24/2005		
84585	1993 Ford Escort SW	99988	2750	6.6	9:20 a.m.	02/24/2005		

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84586	0.00	0	0	0.0	12:00 p.m.	02/24/2005		
84587	1996 Mercury Villager	166799	4000	7.9	8:54 a.m.	02/25/2005		
84588	1978 Buick Regal	81379	4000	9.9	10:12 a.m.	02/25/2005		
84589	2001 Saturn	56662	2750	6.1	11:25 a.m.	02/25/2005		
84590	0.00	0	0	0.0	12:30 p.m.	02/25/2005		
84591	1993 Toyota 4Runner	178462	4000	12.9	8:12 a.m.	02/26/2005		
84592	1979 Ford LTD	65850	4000	10.7	9:26 a.m.	02/26/2005	Possible drive trace violations due to bad brakes.	
84593	1998 Honda Accord	75067	3000	4.0	10:45 a.m.	02/26/2005		
84594	0.00	0	0	0.0	11:50 a.m.	02/26/2005		
84595	1988 Ford Escort	133085	2750	6.0	8:33 a.m.	02/28/2005	NOx reading suspect due to short NOx warmup prior to test. O3 generator not working.	x
84596	1997 Ford Taurus	97601	3500	6.7	9:50 a.m.	02/28/2005		
84597	1994 Pontiac Sunbird	145869	2750	5.2	11:08 a.m.	02/28/2005		
84598	0.00	0	0	0.0	12:15 p.m.	02/28/2005		
84599	1998 Toyota Avalon	29575	3500	5.8	8:15 a.m.	03/01/2005		
84600	1993 Ford Explorer	47980	4000	10.2	9:30 a.m.	03/01/2005		
84601	1979 Buick Regal	5864	3500	11.8	10:40 a.m.	03/01/2005		
84602	0.00	0	0	0.0	12:00 p.m.	03/01/2005		
84603	1979 Nissan Datsun 210 Wagon	47114	2500	9.8	8:30 a.m.	03/02/2005	Vehicle stalled 30 seconds into test.	
84604	0.00	0	0	0.0	10:00 a.m.	03/02/2005		
84605	1977 Nissan 280Z	94782	3000	9.9	10:14 a.m.	03/03/2005	Phase 2 dilution temp over 50C.	
84606	1988 Ford Taurus	13936	3500	4.0	11:36 a.m.	03/03/2005		
84607	0.00	0	0	0.0	12:30 p.m.	03/03/2005		
84608	1996 Nissan Quest	125651	4000	10.0	8:09 a.m.	03/04/2005		
84609	1978 Buick Regal	64571	3500	10.8	9:30 a.m.	03/04/2005	Vehicle stalled several times during Phase 1. Possible dilution due to exhaust leaks.	
84610	0.00	0	0	0.0	11:00 a.m.	03/04/2005		
84611	1989 Toyota Camry	168091	3500	8.4	11:49 a.m.	03/04/2005		
84612	2000 Ford Ranger PU	33680	3500	12.0	8:06 a.m.	03/05/2005		
84613	1990 Oldsmobile Delta 88	185694	3500	6.8	9:28 a.m.	03/05/2005		
84614	1978 Oldsmobile Delta 88	73729	4000	8.7	10:30 a.m.	03/05/2005	Torque board dislodged during Phase 2. Reinserted for Phase 3.	x
84615	0.00	0	0	0.0	11:30 a.m.	03/05/2005		
84616	1999 Plymouth Voyager	113389	4000	7.2	8:07 a.m.	03/07/2005		
84617	1997 Chevrolet Suburban	145147	5500	11.2	9:30 a.m.	03/07/2005		
84618	1992 Plymouth Voyager	154297	4000	7.5	10:30 a.m.	03/07/2005		
84619	0.00	0	0	0.0	11:45 a.m.	03/07/2005		
84620	1992 Ford Ranger PU	19758	3500	11.3	1:00 p.m.	03/07/2005	Possible dilution due to exhaust leaks. Vehicle stalled several times during Phase 1.	
84621	1992 Ford Ranger PU	13586	3500	11.1	2:15 p.m.	03/07/2005		
84622	1999 Toyota Camry	64134	3500	6.4	8:00 a.m.	03/08/2005		
84623	1989 Plymouth Acclaim	164203	3000	6.9	9:30 a.m.	03/08/2005		
84624	1988 Ford Taurus	14013	3500	4.0	10:41 a.m.	03/08/2005	No bag CO2 value for Phase 3.	
84625	0.00	0	0	0.0	11:50 a.m.	03/08/2005		
84626	1987 Dodge D100 PU	23200	3500	13.2	1:05 p.m.	03/08/2005	Possible drive trace violations (braking).	
84627	1987 Ford F150 PU	410	4000	10.4	2:25 p.m.	03/08/2005	Possible drive trace violations (braking). Phase 2 dilution temp over 50C.	
84628	2002 Chevrolet Trailblazer	77758	4500	10.0	8:06 a.m.	03/09/2005		
84629	1996 Acura TL2.5	117642	3500	8.1	9:25 a.m.	03/09/2005		
84630	1989 Honda Accord	139963	2750	6.0	10:40 a.m.	03/09/2005		
84631	0.00	0	0	0.0	12:00 PM	03/09/2005		
84632	1987 Ford F150 PU	428	4000	13.9	1:30 p.m.	03/09/2005	Possible drive trace violations (braking). Phase 2 dilution temp over 50C.	
84633	1987 Volvo 740 Turbo	248178	3000	9.9	8:10 a.m.	03/10/2005		
84634	1988 Plymouth Voyager	162874	4000	7.8	9:30 a.m.	03/10/2005		

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84635	1989 Ford Crown Vic	62847	3500	11.0	10:38 a.m.	03/10/2005	Possible drive trace violations (braking).	
84636	0.00	0	0	0.0	11:50 a.m.	03/10/2005		
84637	1980 Oldsmobile Cutlass Supreme	79420	3500	10.5	1:10 p.m.	03/10/2005	Possible drive trace violations (braking).	
84638	1996 Chrysler Town & Country	213656	4000	8.5	8:09 a.m.	03/11/2005		
84639	1995 Chevrolet Cavalier	140500	2750	4.8	9:20 a.m.	03/11/2005		
84640	1994 Ford Explorer	98974	4000	10.6	10:30 a.m.	03/11/2005		
84641	0.00	0	0	0.0	11:40 a.m.	03/11/2005		
84642	1989 Dodge Spirit	139488	3000	8.4	1:01 p.m.	03/11/2005		
84643	1987 Ford Escort	12845	2500	7.4	2:10 p.m.	03/11/2005		
84644	2001 Nissan Pathfinder	66284	4000	15.3	8:02 a.m.	03/12/2005		
84645	1993 Volvo 960	197094	3500	10.3	9:14 a.m.	03/12/2005	Possible dilution due to exhaust leak.	
84646	1988 Honda Accord	209194	2750	6.4	10:30 a.m.	03/12/2005	Background HC reading suspect due to instrument drift.	x
84647	0.00	0	0	0.0	11:40 a.m.	03/12/2005	Background HC reading suspect due to instrument drift. Vehicle stalled several times during Phase 1. Phase 2 dilution temp over 50C.	x
84648	1987 Dodge Dakota PU	112838	3500	10.6	1:00 p.m.	03/12/2005		
84649	1995 GMC Sonoma PU	56578	3500	9.8	8:17 a.m.	03/14/2005		
84650	1990 Chevrolet Lumina APV	136313	3500	8.1	9:35 a.m.	03/14/2005		
84651	1988 Ford Taurus	14033	3500	4.0	10:40 a.m.	03/14/2005		
84652	0.00	0	0	0.0	11:30 a.m.	03/14/2005		
84653	1977 Chevrolet C-20 PU	37697	4000	13.9	1:07 p.m.	03/14/2005	Phase 2 dilution temp over 50C.	
84654	1990 Oldsmobile Cutlass Cierra	97522	3000	5.4	8:05 a.m.	03/15/2005	Real-time computer had internal error during soak.	
84655	1990 Buick Electra Park Avenue	169860	3500	6.3	9:12 a.m.	03/15/2005		
84656	1990 Chevrolet Lumina APV	123632	3500	8.1	10:21 a.m.	03/15/2005		
84657	0.00	0	0	0.0	11:30 a.m.	03/15/2005		
84658	1989 Chevrolet Astrovan	215908	3500	12.0	1:12 p.m.	03/15/2005	Possible dilution due to exhaust leak, possible high background concentrations.	x
84659	1988 Chrysler Le Baron	117003	3000	8.3	1:52 p.m.	03/15/2005		
84660	1988 Dodge Caravan	61439	3500	8.0	3:07 p.m.	03/15/2005		
84661	1990 Buick Century	148959	3000	6.8	8:10 a.m.	03/16/2005		
84662	1990 Cadillac Eldorado	185384	3500	6.2	9:17 a.m.	03/16/2005	Possible dilution due to exhaust leak, possible high background concentrations. Possible high background concentrations due to oil burning on exhaust.	x
84663	1989 Chevrolet Corsica	98999	3000	5.3	10:31 a.m.	03/16/2005		x
84664	0.00	0	0	0.0	11:40 a.m.	03/16/2005		
84665	1989 Toyota 4X4 PU	262316	3500	10.9	1:17 p.m.	03/16/2005		
84666	1988 Ford F150 PU	14075	4000	14.6	2:08 p.m.	03/16/2005		
84667	1982 Ford F250 PU	85513	3500	11.9	3:19 p.m.	03/16/2005	Vehicle stalled several times during test. Possible high background concentrations and dilution due to exhaust leaks.	x
84668	1991 Oldsmobile Delta 88	139412	3500	7.0	8:00 a.m.	03/17/2005	Possible high background concentrations due to another vehicle being operated in building during test.	x
84669	1990 Dodge Spirit	109931	3000	8.7	9:09 a.m.	03/17/2005		
84670	1989 Mercury Topaz	6137	2750	6.6	10:24 a.m.	03/17/2005		
84671	0.00	0	0	0.0	11:22 a.m.	03/17/2005		
84672	1983 Toyota Tercel	87900	2250	6.7	12:30 p.m.	03/17/2005	Possible dilution due to exhaust leaks. Possible drive trace violations (max speed of vehicle is 50 mph). Phase 2 dilution temp over 50C.	x
84673	1983 GMC Vandura	52728	4500	16.2	10:30 a.m.	03/17/2005		
84674	1979 Pontiac Firebird	45370	4000	10.8	3:04 p.m.	03/17/2005		
84675	1993 Ford Tempo	25053	2750	6.1	8:00 a.m.	03/18/2005		
84676	1990 Ford Bronco	25202	4500	13.3	9:44 a.m.	03/18/2005	Possible drive trace violations (braking).	
84677	1988 Buick Park Avenue	146833	3500	6.3	10:23 a.m.	03/18/2005		
84678	0.00	0	0	0.0	11:30 a.m.	03/18/2005		
84679	1983 Toyota PU	97635	3000	9.9	12:39 p.m.	03/18/2005		
84680	1973 Chevrolet PU	57484	4000	12.6	1:50 p.m.	03/18/2005	Possible dilution due to exhaust leaks. Phase 2 dilution temp over 50C.	

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84681	1993 Ford Tempo	25073	2750	6.1	8:12 a.m.	03/19/2005	Invalid RH values, corrected using airport values	x
84682	1990 Toyota Camry	138235	3500	9.0	9:25 a.m.	03/19/2005	Invalid RH values, corrected using airport values	x
84683	1990 Ford Ranger PU	72976	3500	11.1	10:35 a.m.	03/19/2005	Possible dilution due to exhaust leaks. Invalid RH values, corrected using airport values	x
84684	0.00	0	0	0.0	11:40 a.m.	03/19/2005	Invalid RH values, corrected using airport values	x
84685	1988 Ford F150 PU	62947	4000	13.5	1:14 p.m.	03/19/2005	Invalid RH values. Phase 2 dilution temp over 50C. Possible dilution due to exhaust leaks. Possible drive trace violations (braking). Invalid RH values, corrected using airport values	x
84686	1986 Ford F150 PU	94737	3500	12.5	2:22 p.m.	03/19/2005	Invalid RH values, corrected using airport values	x
84687	1976 Chevrolet El Camino	61809	4000	12.1	3:14 p.m.	03/19/2005	Invalid RH values, corrected using airport values	x
84688	1993 Ford Taurus	92978	3500	9.5	8:05 a.m.	03/21/2005		
84689	1992 GMC Jimmy	90871	3500	9.5	9:21 a.m.	03/21/2005	Possible dilution due to exhaust leaks.	
84690	1989 Oldsmobile Cutlass Cierra	220970	3000	5.4	10:31 a.m.	03/21/2005		
84691	0.00	0	0	0.0	11:30 a.m.	03/21/2005		
84692	1988 Buick Century	94555	3000	6.4	12:48 p.m.	03/21/2005	Possible dilution due to exhaust leaks. Possible dilution due to exhaust leaks. Engine stalled at 1300 seconds into test.	
84693	1988 Ford F150 PU	97172	4000	14.6	1:59 p.m.	03/21/2005		
84694	1983 Chevrolet C10 PU	98799	3500	14.0	3:09 p.m.	03/21/2005		
84695	1989 Oldsmobile Cutlass Ciera	220989	3000	5.4	8:00 a.m.	03/22/2005		
84696	1987 Toyota PU	169293	2750	9.6	9:16 a.m.	03/22/2005	Possible dilution due to exhaust leaks.	
84697	1988 Ford Taurus	14052	3500	4.0	10:25 a.m.	03/22/2005		
84698	0.00	0	0	0.0	11:30 a.m.	03/22/2005		
84699	1985 Chevrolet Caprice	58223	3500	8.7	12:46 p.m.	03/22/2005	Vehicle stalled several times during test. No bag data available. Possible drive trace violations (braking).	
84700	1978 Ford PU	73447	4000	11.7	2:08 p.m.	03/22/2005	Possible dilution due to exhaust leaks.	
84701	1990 Ford F150 PU	38803	4000	13.5	8:00 a.m.	03/23/2005	Possible drive trace violations (braking).	
84702	1989 Chevrolet G20 Van	27435	4000	16.2	9:14 a.m.	03/23/2005	Possible drive trace violations (braking). Possible dilution due to exhaust leaks.	
84703	1987 Chevrolet Blazer	153398	3500	9.8	10:26 a.m.	03/23/2005		
84704	0.00	0	0	0.0	11:30 a.m.	03/23/2005		
84705	1980 Chevrolet Malibu	31253	3500	9.5	12:39 p.m.	03/23/2005		
84706	1776 Chevrolet Nova/ 144MGX	86094	3500	9.6	1:51 p.m.	03/23/2005	Voided run Vehicle stalled several times during test. Phase 2 dilution temp over 50C.	x
84707	1973 Chevrolet Impala	94178	4000	11.4	2:31 p.m.	03/23/2005		
84708	2003 Dodge Caravan	10200	4000	7.2	8:27 a.m.	03/24/2005		
84709	1989 Ford Ranger PU	28864	3000	11.1	10:02 a.m.	03/24/2005	Possible dilution and high background concentrations due to exhaust leaks.	x
84710	1984 Chevrolet Monte Carlo	68810	3500	10.6	11:17 a.m.	03/24/2005		
84711	0.00	0	0	0.0	12:30 p.m.	03/24/2005		
84712	1979 Chevrolet Nova	86117	3500	9.6	1:49 p.m.	03/24/2005	Possible dilution due to exhaust leaks.	
84713	1996 Chevrolet Blazer	94350	4000	10.7	8:07 a.m.	03/25/2005		
84714	1994 Saturn SW	132333	2500	6.1	9:16 a.m.	03/25/2005		
84715	1988 Mazda B2200 PU	220307	3000	10.6	10:15 a.m.	03/25/2005	Possible dilution due to exhaust leaks.	
84716	0.00	0	0	0.0	11:40 a.m.	03/25/2005		
84717	1979 Ford Mustang	45551	3000	9.7	1:58 p.m.	03/25/2005	Possible real-time data values erroneous due to real-time computer failure.	x
84718	QBI692	0	0	0.0	8:07 a.m.	03/26/2005	Voided run	x
84719	1990 Oldsmobile Cutlass Supreme	85449	3500	4.5	9:14 a.m.	03/26/2005		
84720	1989 Chevrolet 1500 PU	140678	4000	12.8	10:21 a.m.	03/26/2005	Possible drive trace violations due to bad brakes.	
84721	0.00	0	0	0.0	11:50 a.m.	03/26/2005		
84722	1998 Ford Windstar	99476	4000	7.9	8:07 a.m.	03/28/2005		
84723	1991 Chevrolet Cavalier	182349	2750	5.8	9:19 a.m.	03/28/2005		
84724	1990 Oldsmobile Cutlass Ciera	171475	3000	5.4	10:30 a.m.	03/28/2005		
84725	0.00	0	0	0.0	11:50 a.m.	03/28/2005		
84726	1990 Ford Aerostar	19648	3500	10.3	12:45 p.m.	03/28/2005	Possible drive trace violations due to bad brakes.	



Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84727	1982 Ford Grenada	64654	3500	10.6	1:45 p.m.	03/28/2005	Possible drive trace violations due to bad brakes Phase 2 dilution temp over 50C.	
84728	2002 Ford Escape 2wd	36209	3500	7.5	8:06 a.m.	03/29/2005		
84729	2001 Toyota Camry	46869	3500	6.7	9:16 a.m.	03/29/2005		
84730	1995 Chevrolet S10 PU	75640	3500	9.8	10:26 a.m.	03/29/2005		
84731	0.00	0	0	0.0	11:40 a.m.	03/29/2005		
84732	1979 Jeep CJ76	8518	3000	10.6	12:50 p.m.	03/29/2005	HC values suspect, dyne bench HC wouldn't span properly.	
84733	1998 Buick Skylark	65464	3500	5.9	8:21 a.m.	03/30/2005		x
84734	1993 Plymouth Voyager	166916	4000	7.3	9:32 a.m.	03/30/2005		
84735	1988 Honda Accord	209393	2750	6.4	10:41 a.m.	03/30/2005		
84736	0.00	0	0	0.0	11:50 a.m.	03/30/2005		
84737	1984 Chevrolet Celebrity	64091	3000	6.7	1:08 p.m.	03/30/2005	Possible drive trace violations due to bad brakes.	
84738	1976 Pontiac Gran Prix	60909	4500	10.7	2:20 p.m.	03/30/2005		
84739	1998 Mazda Protoge	88569	2750	6.8	7:54 a.m.	03/31/2005		
84740	1990 Buick Lesabre	107876	3500	6.8	9:13 a.m.	03/31/2005		
84741	1988 Ford Taurus	14072	3500	4.0	10:25 a.m.	03/31/2005		
84742	0.00	0	0	0.0	11:40 a.m.	03/31/2005	Wrong drive trace used.	
84743	1999 Mazda Protoge	122968	2750	6.9	8:02 a.m.	04/01/2005		
84744	0.00	0	0	0.0	9:00 a.m.	04/01/2005		
84745	1990 Honda Civic	133966	2250	4.6	8:05 a.m.	04/02/2005		
84746	0.00	0	0	0.0	9:13 a.m.	04/02/2005		
84747	2003 Dodge Caravan	0	0	0.0	8:18 a.m.	04/04/2005		x
84748	2002 Dodge Caravan	60790	4500	9.3	9:23 a.m.	04/04/2005		
84749	2001 Toyota Sienna	80227	4000	9.4	10:34 a.m.	04/04/2005		
84750	0.00	0	0	0.0	11:59 a.m.	04/04/2005		
84751	1998 Ford Escort	55309	2750	6.0	12:47 p.m.	04/04/2005		
84752	1978 Ford F100 PU	58917	3500	12.2	2:00 p.m.	04/04/2005		
84753	2003 Dodge Caravan	47649	4500	7.9	8:15 a.m.	04/05/2005		
84754	2003 Chrysler Town & Country	20787	4500	8.9	9:25 a.m.	04/05/2005		
84755	2002 Honda Odyssey	60753	4500	12.7	10:42 a.m.	04/05/2005		
84756	0.00	0	0	0.0	11:30 a.m.	04/05/2005		
84757	2001 Jeep Grand Cherokee	90011	4000	11.7	12:56 a.m.	04/05/2005		

Run #	Veh Yr, Make, Model	Odometer	Inertia	Hp@50mph	Time	Date	Dyne Test Issues	Suspect Data
84758	1979 Chevrolet C10 Beauville	84025	4000	14.6	2:30 a.m.	04/05/2005		
84759	2005 Ford Focus	6701	3000	11.7	8:19 a.m.	04/06/2005	Realtime filter heater off.	
84760	2004 Ford Escape	10519	3500	10.4	9:28 a.m.	04/06/2005	Realtime filter heater off.	
84761	2004 Kia Sedona	16609	5000	10.7	10:45 a.m.	04/06/2005	Realtime filter heater off.	
84762	0.00	0	0	0.0	11:36 a.m.	04/06/2005		
84763	2003 Honda Odyssey	44752	4500	12.4	12:50 p.m.	04/06/2005		
84764	202GMB	0	0	0.0	1:30 p.m.	04/06/2005		
84765	1985 Chevrolet Impala	75914	4000	11.1	2:15 a.m.	04/06/2005	Possible dilution due to exhaust leaks. Possible drive trace violations (braking).	
84766	2000 Dodge Caravan	93162	4000	10.0	8:14 a.m.	04/07/2005		
84767	1998 Nissan Frontier PU	107615	3500	11.0	9:26 a.m.	04/07/2005		
84768	1995 Ford F150 PU	147342	4500	11.6	10:40 a.m.	04/07/2005		
84769	0.00	0	0	0.0	11:56 a.m.	04/07/2005		
84770	1995 Ford F250 PU	52586	4500	11.6	12:45 p.m.	04/07/2005	Possible drive trace violations (braking).	
84771	1994 Chevrolet Astrovan	133318	4000	12.3	2:06 p.m.	04/07/2005		
84772	1992 Dodge Caravan	143971	4000	7.0	3:23 p.m.	04/07/2005		
84773	1998 Toyota 4Runner	115768	4000	11.7	8:30 a.m.	04/08/2005		
84774	1995 Dodge Caravan	136837	4000	7.6	9:45 a.m.	04/08/2005		
84775	1997 Chevrolet Suburban	137630	5000	10.8	11:00 a.m.	04/08/2005		
84776	0.00	0	0	0.0	11:59 a.m.	04/08/2005	Possible dilution due to exhaust leaks. CVS bags not fully evacuated prior to start of test.	
84777	1987 Oldsmobile Cutlass	87020	3500	9.6	1:15 p.m.	04/08/2005		