

**APPENDIX K. CONSUMER PERFORMANCE MEASURES**

iteration	v+	new D+
(s)	(ft/s)	(lb)
34.96	95.57	95.57
34.16	95.20	95.20
32.54	92.26	92.26
30.32	86.55	86.55
30.10	81.04	81.04
32.17	74.55	74.55
38.78	69.16	69.16
36.09	66.04	66.04
33.41	61.05	61.05
30.55	56.94	56.94
27.16	52.24	52.24
23.59	47.52	47.52
20.73	43.90	43.90
17.70	40.22	40.22
14.14	36.09	36.09
10.75	32.38	32.38
7.54	29.06	29.06
4.86	26.41	26.41
2.30	23.09	23.09
0.27	20.45	20.45
0.00	17.68	17.68
0.00	15.64	15.64
0.01	13.96	13.96
0.01	11.48	11.48
0.01	9.64	9.64
0.01	7.87	7.87
0.01	6.19	6.19
0.01	4.86	4.86
0.01	3.63	3.63
0.01	2.58	2.58
0.01	1.62	1.62

new V-	new D-
(ft/s)	(lb)
74.96	49.31
74.80	49.10
73.23	47.06
70.05	43.06
66.87	39.24
62.98	34.81
59.63	31.20
56.98	28.49
54.33	25.90
51.51	23.28
48.15	20.34
44.61	17.46
41.78	15.32
38.77	13.19
35.23	10.89
31.87	8.91
28.68	7.22
26.03	5.94
22.48	4.44
19.47	3.33
16.10	2.28
13.45	1.59
10.26	0.92
7.42	0.48
4.40	0.17
1.21	0.01
-2.16	-0.04
-5.18	-0.24
-8.38	-0.62
-11.57	-1.17
-15.12	-2.01

new D2	new D3
(lb)	(lb)
-25.02	21.24
-24.93	21.17
-24.47	20.73
-23.61	19.88
-22.75	19.04
-21.72	18.02
-20.82	17.14
-20.11	16.44
-19.40	15.74
-18.65	15.00
-17.77	14.13
-16.85	13.21
-16.11	12.48
-15.32	11.70
-14.41	10.80
-13.54	9.93
-12.72	9.12
-12.03	8.44
-11.13	7.53
-10.36	6.76
-9.50	5.91
-8.82	5.23
-8.01	4.42
-7.29	3.70
-6.53	2.94
-5.72	2.13
-4.87	1.36
-4.11	0.98
-3.31	0.94
-2.51	1.25
-1.62	2.01

new F2	new F3	new a2	new a3	new v2	new v3	new d2	new d3
(lb)	(lb)	(ft/s^2)	(ft/s^2)	(ft/s)	(ft/s)	(ft)	(ft)
-25.0	21.2	0.00	0	89.66	89.66	0	0
-205.9	-159.8	-2.02	-1.57	89.46	89.50	8.97	8.97
-1652.7	-1607.5	-16.22	-15.76	87.84	87.93	17.91	17.92
-3280.4	-3236.9	-32.19	-31.77	84.62	84.75	26.70	26.71
-3279.4	-3237.6	-32.18	-31.77	81.40	81.57	35.16	35.18
-4002.2	-3962.4	-39.28	-38.89	77.47	77.68	43.30	43.34
-3458.4	-3420.5	-33.94	-33.57	74.08	74.33	51.04	51.11
-2733.9	-2697.4	-26.83	-26.47	71.39	71.68	58.45	58.54
-2733.4	-2698.2	-26.82	-26.48	68.71	69.03	65.59	65.71
-2913.6	-2878.9	-28.59	-28.26	65.85	66.21	72.46	72.61
-3465.4	-3423.5	-33.91	-33.60	62.46	62.85	79.05	79.23
-3635.4	-3605.3	-35.68	-35.38	58.89	59.31	85.28	85.52
-2911.0	-2882.4	-28.57	-28.29	56.04	56.48	91.18	91.45
-3091.0	-3064.0	-30.33	-30.07	53.00	53.47	96.79	97.10
-3633.0	-3607.8	-35.65	-35.40	49.44	49.93	102.09	102.44
-3451.1	-3427.7	-33.87	-33.64	46.05	46.57	107.03	107.44
-3289.4	-3247.5	-32.08	-31.87	42.84	43.38	111.64	112.09
-2726.0	-2705.5	-26.75	-26.55	40.17	40.73	115.92	116.43
-3629.7	-3611.0	-35.62	-35.44	36.61	37.18	119.94	120.50
-3086.2	-3069.1	-30.29	-30.12	33.58	34.17	123.60	124.22
-3447.1	-3431.7	-33.83	-33.68	30.19	30.80	126.96	127.64
-2722.8	-2708.7	-26.72	-26.58	27.52	28.14	129.98	130.72
-3264.7	-3252.2	-32.04	-31.92	24.32	24.95	132.73	133.53
-2902.0	-2891.0	-28.48	-28.37	21.47	22.12	135.16	136.03
-3082.4	-3072.9	-30.25	-30.16	18.45	19.10	137.31	138.24
-3262.4	-3254.5	-32.02	-31.94	15.24	15.91	139.15	140.15
-3442.5	-3436.2	-33.78	-33.72	11.87	12.53	140.68	141.74
-3080.0	-3074.9	-30.23	-30.18	8.84	9.52	141.86	143.00
-3260.0	-3256.7	-31.99	-31.95	5.64	6.32	142.75	143.95
-3259.2	-3255.4	-31.98	-31.95	2.46	3.13	143.31	144.58
-3620.2	-3616.5	-35.53	-35.49	-1.11	-0.42	143.56	144.89

-0.76 0.58

**Consumer Performance Measures for Vehicles Tested (based on final results)**  
**Mean, Standard Deviation, 95% One-Sided Confidence Interval and 95th and 99th-Percentile Stopping Distances**

	No Payload Dry		Payload Dry		No Payload Wet		Payload Wet	
GRANDAM FINAL STATISTICS								
Mean	147.9		152.0		190.1		171.5	
STD n-1	1.6		1.6		6.9		6.5	
95%	148.8		152.9		193.9		175.9	
95th	150.5	0.949994	154.7	0.949276	201.5	0.95028	185.5	0.949849
99th	151.6	0.990236	155.8	0.990579	206.2	0.990061	191.3	0.989932
EXPEDITION FINAL STATISTICS								
Mean	170.4		165.4		197.8		220.4	
STD n-1	8.1		3.1		8.7		10.0	
95%	174.8		168.0		203.2		227.9	
95th	183.7	0.9499	170.5	0.949855	212.1	0.950366	236.9	0.950319
99th	189.2	0.989929	172.6	0.990053	218.0	0.990074	243.7	0.990039
CAMRY FINAL STATISTICS								
Mean	160.0		161.5		175.7		174.3	
STD n-1	1.9		2.5		5.3		2.2	
95%	161.1		162.9		178.6		175.5	
95th	163.1	0.949891	165.8	0.951927	184.4	0.949225	178.0	0.950064
99th	164.4	0.990439	167.5	0.989769	188.1	0.990133	179.5	0.990272
MALIBU FINAL STATISTICS								
Mean	141.3		154.0		160.3		165.2	
STD n-1	1.4		2.4		2.9		10.2	
95%	142.0		155.3		151.9		170.6	
95th	143.5	0.950527	157.9	0.950001	156.0	0.950206	181.9	0.949965
99th	144.4	0.990068	159.6	0.990066	157.0	0.990017	188.8	0.990005
CARAVAN FINAL STATISTICS								
Mean	156.7		173.1		165.5		190.5	
STD n-1	2.0		4.8		3.2		4.2	
95%	160.8		175.8		167.5		192.9	
95th	163.1	0.949975	181.0	0.950977	170.7	0.950362	197.6	0.950135
99th	164.5	0.990045	184.7	0.990043	172.8	0.990085	200.4	0.990068
CADILLAC FINAL STATISTICS								
Mean	156.3		165.2		163.6		163.9	
STD n-1	2.9		4.1		1.9		1.6	
95%	158.0		187.2		164.7		164.6	
95th	161.2	0.950033	172	0.950143	166.8	0.950268	166.6	0.950159
99th	163.2	0.990026	174.8	0.950002	168.1	0.980104	167.7	0.989995
RAM FINAL STATISTICS								
Mean	199.2		186.5		209.6		205.2	
STD n-1	9.6		10.3		10.7		7.4	
95%	205.2		194.5		215.5		209.5	
95th	215.0	0.95005	205.4	0.950018	227.3	0.950084	217.4	0.949976
99th	221.6	0.990011	212.4	0.99003	234.6	0.990032	222.4	0.950036
EXPRESS FINAL STATISTICS								
Mean	165.6		178.1		178.3		184.1	
STD n-1	2.7		5.6		1.9		3.2	
95%	167.6		182.7		179.4		186.1	
95th	170.1	0.949908	188.6	0.950015	181.4	0.950388	189.4	0.950025
99th	172.0	0.990034	182.5	0.990016	182.7	0.990078	181.6	0.990067
ASTRO FINAL STATISTICS								
Mean	170.5		163.0		174.1		185.1	
STD n-1	1.2		2.7		1.5		0.9	
95%	171.3		184.6		175.1		185.8	
95th	172.4	0.950129	187.4	0.950186	176.6	0.950017	186.6	0.950946
99th	173.2	0.990084	188.2	0.990033	177.6	0.990075	187.3	0.989925
BONNEVILLE FINAL STATISTICS								
Mean	155.7		164.2		161.3		165.3	
STD n-1	1.9		4.4		1.7		3.0	
95%	157.7		167.2		162.3		167.8	
95th	159.7	0.950289	171.5	0.950031	164.2	0.950017	170.1	0.950263
99th	161.0	0.990078	174.5	0.990083	165.4	0.990063	172.1	0.990084