

APPENDIX E. FINAL PERFORMANCE STATISTICS FOR EACH VEHICLE

GRANDAM FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1	148.9	A	1	153.5	A	1	197.0	A	1	164.5	A
2	147.5	A	2	149.0	A	2	190.9	A	2	171.5	A
3	147.5	A	3	152.6	A	3	184.0	C	3	163.3	A
4	148.4	A	4	153.3	A	4	193.2	A	4	170.3	A
5	149.4	A	5	152.2	A	5	175.5	A	5	167.0	A
6	149.3	A	6	152.3	A	6	183.4	A	6	167.5	A
7	148.4	A	7	151.0	A	7	194.5	A	7	180.3	A
8	145.6	A	8	153.0	A	8	188.6	A	8	180.1	A
9	145.5	A	9	152.8	A	9	189.6	A	9	158.4	A
10	150.3	A	10	151.3	A	10	201.6	B	10	177.3	A
									11	186.2	A
x bar	147.9			152.0			190.1			171.5	
STD n-1	1.6			1.6			8.9			8.5	
95%	148.8			152.9			193.9			175.9	

EXPEDITION FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1	162.8	C	1	160.6	B	1	199.7	A	1	212.5	A
2	168.9	A	2	160.6	A	2			2	211.3	A
3	165.2	A	3			3	218.4	B	3		
4	164.9	A	4	165.1	A	4	196.7	A	4	223.7	B
5	166.6	A	5			5	196.2	B	5		
6	167.8	A	6			6	197.8	A	6	226.7	B
7	175.8	A	7			7	193.4	A	7	212.6	A
8	168.5	A	8	156.7	B	8	191.6	B	8	236.7	B
9	172.8	A	9	169.1	A	9	194.4	A			
10	190.7	A									
x bar	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	

CAMRY FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1			1	163.2	A	1	167.3	A	1	174.00	A
2	163.0	A	2	166.9	A	2	173.5	A	2	169.30	B
3	161.7	A	3	158.6	A	3	169.7	A	3	175.20	A
4	158.2	A	4	160.5	A	4	174.0	A	4	174.60	A
5	162.4	A	5	160.7	A	5	175.3	A	5	174.40	B
6	160.1	A	6	163.5	A	6	172.6	A	6	176.60	A
7	159.1	A	7	158.6	A	7	181.7	A	7	175.80	A
8	159.1	A	8	162.9	A	8	177.4	A	8	174.90	A
9	158.3	A	9	158.9	A	9	183.4	A	9	174.90	B
10	156.5	A	10	160.0	A	10	181.6	A	10	174.30	C
x bar	160.0			161.5			176.7			174.3	
STD n-1	1.9			2.6			5.3			2.2	
95%	161.1			162.9			178.6			175.5	

MALIBU FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1	140.0	A	1	154.5	A	1	147.9	A	1	152.4	A
2	142.0	A	2	155.7	A	2	150.9	B	2	153.7	A
3	140.9	A	3	156.6	A	3	151.5	B	3	160.5	A
4	142.8	A	4	155.8	A	4	147.4	A	4	164.2	B
5	139.0	A	5	154.7	A	5	153.9	A	5	158.9	B
6	142.4	A	6	151.5	A	6	148.3	A	6	169.5	A
7	140.1	A	7	150.2	A	7	145.8	A	7	161.3	A
8	143.0	A	8	152.8	A	8	151.0	A	8	176.4	B
9	142.0	A	9	156.0	A	9	149.4	A	9	156.4	A
10	140.8	A	10	151.4	A	10	155.5	A	10	176.2	B
11											
\bar{x} bar	141.3			154.0			150.3			165.2	
STD n-1	1.4			2.4			2.9			10.2	
95%	142.0			155.3			151.9			170.8	

CARAVAN FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1	161.5	B	1	175.2	A	1	164.9	B	1	185.9	A
2	158.1	A	2	164.9	A	2			2	188.5	A
3	160.9	A	3	174.5	A	3			3	192.2	A
4	157.1	A	4	172.3	A	4	162.8	A	4	194.6	A
5	159.4	A	5	169.0	A	5	163.0	A	5	197.2	A
6	159.4	A	6	171.9	A	6	169.1	B	6	192.1	A
7	158.1	A	7	168.8	A	7			7	185.2	A
8	158.1	A	8	177.0	A	8	164.6	A	8	186.3	A
9	163.8	A	9	181.1	A	9	164.1	A	9	187.9	A
10	159.2	A	10	176.7	A	10	163.8	A	10	195.4	B
11						11	171.6	A			
\bar{x} bar	159.7			173.1			165.5			190.6	
STD n-1	2.0			4.8			3.2			4.2	
95%	160.8			175.8			167.6			192.9	

CADILLAC FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1	157.8	A	1	163.1	B	1	164.9	C	1	163.6	B
2	160.9	B	2	160.3	A	2	163.8	A	2	163.6	A
3	149.6	A	3	160.2	A	3	166.3	A	3	163.3	A
4	154.4	A	4	160.1	B	4	160.7	A	4	161.9	B
5	156.0	C	5	169.8	A	5	164.7	B	5	161.9	A
6	157.5	A	6	171.3	A	6	165.4	A	6	167.0	A
7	154.1	A	7	166.8	A	7	161.2	B	7	163.2	A
8	157.2	A	8	170.5	A	8			8	165.4	A
9	158.8	A	9	166.9	A	9	163.2	A	9	164.0	A
10			10	164.7	A	10	162.5	A	10	165.4	A
11	158.3	B	11	161.7	B						
12	157.1	B	12	166.8	A						
\bar{x} bar	156.3			165.2			163.6			163.9	
STD n-1	2.9			4.1			1.9			1.6	
95%	158.0			167.2			164.7			164.8	

RAM FINAL STATISTICS

No Payload Dry		Payload Dry		No Payload Wet		Payload Wet	
Stop #	Distance	Stop #	Distance	Stop #	Distance	Stop #	Distance
1	198.7	1	201.9	1	216.6	1	209.2
2	185.8	2	208.4	2	234.9	2	183.4
3	197.5	3	188.4	3	216.1	3	200.6
4	201.1	4	180.9	4	207.5	4	202.4
5	210.9	5	187.5	5	208.7	5	206.6
6	214.5	6	179.2	6	205.9	6	204.5
7	194.3	7	190.3	7	197.7	7	202
8	180.7	8	189.4	8	205.1	8	207.7
		9	174.7	9	202.5	9	220.5
				10	200.8		
x bar	199.2		188.5		208.8		205.2
STD n-1	9.6		10.3		10.7		7.4
95%	205.7		194.5		215.5		209.5

EXPRESS FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1	160.8	A	1			1			1	181.1	A
2	169.3	C	2			2			2	186.7	A
3	164.9	B	3	181.0	C	3	176.6	B	3	188.7	A
4			4	176.0	A	4	178.5	A	4	184.9	A
5			5	184.5	A	5	177.6	A	5	178.9	A
6			6	182.0	A	6	175.8	A	6	184.1	A
7			7	182.5	A	7	180.3	A	7		
8	165.1	A	8	183.1	A	8	180.5	A	8	182.5	B
9	168.1	A	9	176.8	A	9	175.0	A	9	186.1	A
10	165.3	A	10	165.9	A	10	172.6	A			
						11	180.5	A			
x bar	165.8			179.1			178.3			184.1	
STD n-1	2.7			5.8			1.9			3.2	
95%	167.5			182.7			179.4			186.1	

ASTRO FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1	170.5	C	1	184.8	A	1					
2	172.6	A	2	181.6	A	2	176	B			
3	170.7	C	3	179.5	A	3	175.1	A	5	184.9	A
4			4	178.4	A	4			6	184.9	A
5	169	B	5	183	A	5	173.1	B			
6	171.4	A	6	185.7	C	6	175.4	A	7	184.7	B
7	170.9	A	7	183.8	A	7	172.5	B	8	186.6	A
8	170.1	A	8	184	C	8	173.8	A	9	183.8	B
9	169.1	A	9			9	175.2	B	10	185.8	B
			10	186.1	B	10	172	C			
x bar	170.5			183.0			174.1			185.1	
STD n-1	1.2			2.7			1.5			0.9	
95%	171.3			184.5			175.1			185.8	

GRAND AM BASELINE FINAL STATISTICS

7 October 1998 (Ford Expedition)

Stop #	Distance	Class
1	151.0	A
2	147.9	A
3	153.3	A
4	147.7	A
5	150.1	A
6	148.7	A
Average	149.8	
STDEV	2.1	

8 October 1998 (Ford Expedition)

Stop #	Distance	Class
1	155.0	C
2	156.2	A
3	155.9	A
4	159.7	C
5		
6		
Average	156.7	
STDEV	2.1	

9 October 1998 (Ford Expedition)

Stop #	Distance	Class
1		
2	143.7	A
3	144.6	A
4	143.1	A
5	144.6	A
6	143.1	A
Average	143.8	
STDEV	0.8	

13 October 1998 (Toyota Camry)

Stop #	Distance	Class
1	144.0	A
2	145.8	A
3	148.6	A
4	144.3	A
5	144.8	A
6	144.6	A
Average	145.4	
STDEV	1.7	

14 October 1998 (Toyota Camry)

Stop #	Distance	Class
1	150.7	A
2	148.5	A
3	150.7	A
4	146.8	A
5	150.2	C
Average	149.4	
STDEV	1.7	

15 October 1998 (Toyota Camry)

Stop #	Distance	Class
1	139.5	A
2	139.3	A
3	140.6	A
Average	139.8	
STDEV	0.7	

19 October 1998 (Chevrolet Malibu)

Stop #	Distance	Class
1		
2		
3	147.4	A

20 October 1998 (Chevrolet Malibu)

Stop #	Distance	Class
1	143.7	A
2	145.0	B
3	148.4	B
Average	145.7	
STDEV	2.4	

22 October 1998 (Cadillac DeVille)

Stop #	Distance	Class
1		
2	140.3	A
3	141.1	A
Average	140.7	
STDEV	0.6	

23 October 1998 (Cadillac DeVille)

Stop #	Distance	Class
1	140.0	A
2	140.2	A
3	140.7	A
Average	140.3	
STDEV	0.4	

GRAND AM BASELINE FINAL STATISTICS (cont.)

30 October 1998 (Dodge Caravan)

Stop #	Distance	Class
1	143.6	A
2	142.0	A
3	143.4	B
Average	143.0	
STDEV	0.9	

2 November 1998 (Dodge Caravan)

Stop #	Distance	Class
1	143.4	A
2	142.2	B
3	142.3	A
Average	142.6	
STDEV	0.7	

3 November 1998 (Dodge Caravan)

Stop #	Distance	Class
1	143.6	A
2	142.3	A
3	144.2	B
Average	143.4	
STDEV	1.0	

6 November 1998 (Dodge Ram)

Stop #	Distance	Class
1		
2		
3		
4	145.5	B

12 November 1998 (Chevrolet Express)

Stop #	Distance	Class
1	145.1	C
2	143.6	B
3		
4	146.7	C
Average	145.1	
STDEV	1.6	

18 November 1998 (Chevrolet Astro)

Stop #	Distance	Class
1	148.3	A
2	143.2	A
3	141.1	A
4	142.0	A
Average	143.7	
STDEV	3.2	

20 November 1998 (Pontiac Bonneville)

Stop #	Distance	Class
1	140.8	A
2	142.9	A
3	142.5	A
Average	142.1	
STDEV	1.1	

BONNEVILLE FINAL STATISTICS

No Payload Dry			Payload Dry			No Payload Wet			Payload Wet		
Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class	Stop #	Distance	Class
1	157.4	A	1	172.2	B	1	162.7	A	1	185.4	C
2	158.4	A	2	166.7	C	2	158.7	A	2		
3	157.4	A	3	164.7	B	3	162.9	B	3		
4	155.2	A	4	151	B	4	161.2	B	4		
5	155.7	A	5	160.4	A	5	162.6	A	5		
6	156.9	A	6			6	162.7	B	6	162.1	B
7	164.4	B	7	158.5	C	7	163.1	A	7	163.1	B
8	159.3	A	8			8	159.5	A	8		
9	150.2	A	9	164.8	C	9	156.9	B	9	169.6	A
10	153.6	A	10			10	161.1	A	10	165.1	A
			11								
x bar	156.7			164.2			161.3			166.3	
STD $\sigma-1$	1.9			4.4			1.7			3.0	
95%	157.7			167.2			162.3			167.8	