Appendix H

Comparison Between "With" and "Without" Ratings for the Random Samples

Table H.1 Comparison Between "With" and "Without" Ratings for the Random Samples

	"With"		"Without"			
	Average Rating	**Standard Error**	**Average Rating**	**Standard Error**	**Difference**	**t-Statistic**
Feel safe from crashes on freeways	5.64	0.16	6.10	0.17	0.46	1.97
Special lane for buses/carpools	4.64	0.20	5.23	0.23	0.59	1.94
Good freeway network	5.43	0.16	5.16	0.16	-0.27	-1.19
Travel time predictable during peak	5.86	0.19	6.09	0.18	0.23	0.88
Overall satisfied with ramp meters	4.99	0.20	4.72	0.2	-0.27	-0.95
Wait time at meters is too long	**6.28**	**0.19**	**6.98**	**0.18**	**0.70**	**2.67**
Never know how long wait time will be	6.89	0.17	6.91	0.18	0.02	0.08
Safe when leaving ramp meter to merge	5.81	0.19	6.15	0.19	0.34	1.27
Ramp meters improve overall traffic	5.41	0.18	5.32	0.19	-0.09	-0.34
Cost of ramp meters is good value	4.63	0.19	4.14	0.19	-0.49	-1.82
Ramp meters shorten travel time	4.37	0.18	4.37	0.19	0.00	0.00
Ramp meters reduce car crashes	5.38	0.18	5.27	0.2	-0.11	-0.41
Ramp by-pass lanes benefit to me	4.33	0.21	4.26	0.21	-0.07	-0.24
Some meters may not be necessary	**6.38**	**0.20**	**7.88**	**0.17**	**1.50**	**5.71**
Buses/carpools should have ramp by-pass lanes	7.52	0.17	7.39	0.18	-0.13	-0.53
Sometimes need to wait even with smooth traffic	**6.72**	**0.18**	**7.52**	**0.17**	**0.80**	**3.23**
More alternative routes to avoid ramp meters	6.49	0.19	6.22	0.19	-0.27	-1.00
Ramp meters cause congestion on local streets	7.16	0.18	7.13	0.18	-0.03	-0.12
Electronic sign stating wait time	**5.85**	**0.21**	**5.13**	**0.22**	**-0.72**	**-2.37**
Tolerance for congestion	**5.27**	**0.16**	**4.54**	**0.18**	**-0.73**	**-3.03**
Amount of traffic congestion	5.82	0.20	5.45	0.19	-0.37	-1.34

Table H.2 Comparison Between "With" and "Without" Ratings for the I-494 Corridor Users

	"With"		"Without"			
	Average Rating	Standard Error	Average Rating	Standard Error	Difference	t-Statistic
Feel safe from crashes on freeways	5.63	0.23	5.4	0.23	-0.23	-0.71
Special lane for buses/carpools	5.54	0.30	5.64	0.32	0.1	0.23
Good freeway network	4.53	0.22	4.02	0.24	-0.51	-1.57
Travel time predictable during peak	4.83	0.24	4.94	0.24	0.11	0.32
Overall satisfied with ramp meters	**3.75**	**0.26**	**5.16**	**0.27**	**1.41**	**3.76**
Wait time at meters is too long	7.29	0.27	7.20	0.26	-0.09	-0.24
Never know how long wait time will be	7.20	0.27	6.97	0.28	-0.23	-0.59
Safe when leaving ramp meter to merge	**5.98**	**0.26**	**6.80**	**0.25**	**0.82**	**2.27**
Ramp meters improve overall traffic	**4.52**	**0.25**	**6.06**	**0.28**	**1.54**	**4.10**
Cost of ramp meters is good value	4.07	0.26	4.35	0.27	0.28	0.75
Ramp meters shorten travel time	**3.10**	**0.23**	**5.06**	**0.31**	**1.96**	**5.08**
Ramp meters reduce car crashes	4.56	0.26	5.26	0.27	*0.7*	*1.87*
Ramp by-pass lanes benefit to me	3.93	0.29	3.91	0.30	-0.02	-0.05
Some meters may not be necessary	6.26	0.29	6.89	0.28	0.63	1.56
Buses/carpools should have ramp by-pass lanes	**7.76**	**0.26**	**6.82**	**0.30**	**-0.94**	**-2.37**
Sometimes need to wait even with smooth traffic	7.50	0.24	7.79	0.25	0.29	0.84
More alternative routes to avoid ramp meters	6.88	0.27	6.90	0.25	0.02	0.05
Ramp meters cause congestion on local streets	7.31	0.26	7.14	0.27	-0.17	-0.45
Electronic sign stating wait time	**5.87**	**0.31**	**4.94**	**0.30**	**-0.93**	**-2.16**
Tolerance for congestion	6.06	0.20	5.80	0.28	-0.26	-0.76
Amount of traffic congestion on I-494	7.06	0.17	7.29	0.20	0.23	0.88

Table H.3 Comparison Between "With" and "Without" Ratings for the I-35E Corridor Users

	"With"		"Without"			
	Average Rating	**Standard Error**	**Average Rating**	**Standard Error**	**Difference**	**t-Statistic**
Feel safe from crashes on freeways	5.27	0.25	5.90	0.21	0.63	1.92
Special lane for buses/carpools	5.04	0.30	5.57	0.31	0.53	1.23
Good freeway network	4.87	0.22	5.17	0.24	0.30	0.92
Travel time predictable during peak	**4.94**	**0.24**	**6.05**	**0.26**	**1.11**	**3.13**
Overall satisfied with ramp meters	4.24	0.25	4.02	0.25	-0.22	-0.62
Wait time at meters is too long	**6.61**	**0.27**	**7.60**	**0.26**	**0.99**	**2.63**
Never know how long wait time will be	6.97	0.27	6.91	0.27	-0.06	-0.15
Safe when leaving ramp meter to merge	5.31	0.28	5.70	0.27	0.39	1.01
Ramp meters improve overall traffic	4.83	0.27	4.99	0.25	0.16	0.43
Cost of ramp meters is good value	4.09	0.27	3.82	0.25	-0.27	-0.73
Ramp meters shorten travel time	3.55	0.24	3.95	0.27	0.40	1.12
Ramp meters reduce car crashes	4.53	0.27	4.97	0.27	0.44	1.17
Ramp by-pass lanes benefit to me	3.58	0.27	3.51	0.28	-0.07	-0.17
Some meters may not be necessary	**6.26**	**0.27**	**7.88**	**0.26**	**1.62**	**4.32**
Buses/carpools should have ramp by-pass lanes	6.74	0.26	6.96	0.28	0.22	0.57
Sometimes need to wait even with smooth traffic	**7.34**	**0.26**	**8.26**	**0.23**	**0.92**	**2.66**
More alternative routes to avoid ramp meters	6.84	0.27	7.11	0.27	0.27	0.71
Ramp meters cause congestion on local streets	7.23	0.25	7.52	0.26	0.29	0.81
Electronic sign stating wait time	5.36	0.30	5.48	0.33	0.12	0.27
Tolerance for congestion	**6.98**	**0.17**	**4.85**	**0.25**	**-2.13**	**-7.06**
Amount of traffic congestion on I-35E	5.79	0.20	6.29	0.21	0.50	1.72

Table H.4 Comparison Between "With" and "Without" Ratings for the I-35W Corridor Users

	"With"		"Without"			
	Average Rating	Standard Error	Average Rating	Standard Error	Difference	t-Statistic
Feel safe from crashes on freeways	5.39	0.21	5.53	0.23	0.14	0.45
Special lane for buses/carpools	6.36	0.31	6.35	0.33	-0.01	-0.02
Good freeway network	4.52	0.22	4.71	0.22	0.19	0.61
Travel time predictable during peak	5.21	0.27	5.83	0.27	0.62	1.62
Overall satisfied with ramp meters	4.06	0.25	3.99	0.25	-0.07	-0.20
Wait time at meters is too long	**7.15**	**0.25**	**7.87**	**0.23**	**0.72**	**2.12**
Never know how long wait time will be	6.99	0.27	6.96	0.24	-0.03	-0.08
Safe when leaving ramp meter to merge	**5.14**	**0.26**	**6.54**	**0.23**	**1.4**	**4.03**
Ramp meters improve overall traffic	4.75	0.27	5.16	0.27	0.41	1.07
Cost of ramp meters is good value	4.08	0.28	4.28	0.27	0.2	0.51
Ramp meters shorten travel time	3.72	0.27	3.69	0.29	-0.03	-0.08
Ramp meters reduce car crashes	**4.19**	**0.27**	**4.93**	**0.27**	**0.74**	**1.94**
Ramp by-pass lanes benefit to me	**3.98**	**0.31**	**3.14**	**0.27**	**-0.84**	**-2.04**
Some meters may not be necessary	**5.62**	**0.29**	**7.44**	**0.26**	**1.82**	**4.67**
Buses/carpools should have ramp by-pass lanes	6.74	0.30	7.09	0.29	0.35	0.84
Sometimes need to wait even with smooth traffic	**7.29**	**0.27**	**8.61**	**0.19**	**1.32**	**4.00**
More alternative routes to avoid ramp meters	7.46	0.28	6.94	0.27	-0.52	-1.34
Ramp meters cause congestion on local streets	7.97	0.25	8.19	0.21	0.22	0.67
Electronic sign stating wait time	5.22	0.32	5.25	0.30	0.03	0.07
Tolerance for congestion	**5.40**	**0.19**	**4.43**	**0.25**	**-0.97**	**-3.09**
Amount of traffic congestion on I-35E	**6.98**	**0.19**	**6.34**	**0.20**	**-0.64**	**-2.32**

Table H.5 Comparison Between "With" and "Without" Ratings for the I-94 Corridor Users

	"With"		"Without"			
	Average Rating	**Standard Error**	**Average Rating**	**Standard Error**	**Difference**	**t-Statistic**
Feel safe from crashes on freeways	5.42	0.22	5.28	0.24	-0.14	-0.43
Special lane for buses/carpools	4.41	0.30	4.58	0.33	0.17	0.38
Good freeway network	4.92	0.20	4.63	0.23	-0.29	-0.95
Travel time predictable during peak	5.25	0.24	4.96	0.26	-0.29	-0.82
Overall satisfied with ramp meters	5.46	0.28	4.72	0.27	-0.74	-1.90
Wait time at meters is too long	**5.88**	**0.26**	**7.26**	**0.26**	**1.38**	**3.75**
Never know how long wait time will be	6.66	0.26	6.53	0.27	-0.13	-0.35
Safe when leaving ramp meter to merge	6.53	0.23	6.43	0.26	-0.1	-0.29
Ramp meters improve overall traffic	6.01	0.28	5.44	0.27	-0.57	-1.47
Cost of ramp meters is good value	**5.33**	**0.27**	**4.36**	**0.27**	**-0.97**	**-2.54**
Ramp meters shorten travel time	4.33	0.26	4.46	0.28	0.13	0.34
Ramp meters reduce car crashes	5.92	0.27	5.16	0.29	-0.76	-1.92
Ramp by-pass lanes benefit to me	4.72	0.31	3.95	0.29	-0.77	-1.81
Some meters may not be necessary	**5.58**	**0.28**	**7.18**	**0.27**	**1.6**	**4.11**
Buses/carpools should have ramp by-pass lanes	7.92	0.23	7.97	0.25	0.05	0.15
Sometimes need to wait even with smooth traffic	**6.60**	**0.26**	**8.06**	**0.22**	**1.46**	**4.29**
More alternative routes to avoid ramp meters	6.18	0.27	6.74	0.25	0.56	1.52
Ramp meters cause congestion on local streets	6.66	0.28	7.37	0.26	0.71	1.86
Electronic sign stating wait time	6.02	0.30	5.43	0.30	-0.59	-1.39
Tolerance for congestion	5.48	0.21	5.45	0.24	-0.03	-0.09
Amount of traffic congestion on I-94	**5.95**	**0.19**	**6.71**	**0.21**	**0.76**	**2.68**