

APPENDIX

APPENDIX A
Hourly Traffic Counts on I-94 Eastbound
and at the Rest Area Entrance Ramps

APPENDIX A
HOURLY COUNT OF VEHICLES ON I-94 EASTBOUND
WEST OF IVERSON LAKE REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Monday 8/16/99	7pm - 8pm	168	90	258	35%
	8pm - 9pm	148	100	248	40%
	9pm - 10pm	129	72	201	36%
	10pm - 11pm	89	60	149	40%
	11pm - 12am	53	52	105	50%
	Monday Total		587	374	961
Tuesday 8/17/99	12am - 1am	33	44	77	57%
	1am - 2am	27	46	73	63%
	2am - 3am	19	36	55	65%
	3am - 4am	13	38	51	75%
	4am - 5am	24	26	50	52%
	5am - 6am	51	31	82	38%
	6am - 7am	111	42	153	27%
	7am - 8am	165	65	230	28%
	8am - 9am	188	56	244	23%
	9am - 10am	211	78	289	27%
	10am - 11am	230	85	315	27%
	11am - 12pm	237	101	338	30%
	12pm - 1pm	236	104	340	31%
	1pm - 2pm	258	86	344	25%
	2pm - 3pm	296	124	420	30%
	3pm - 4pm	291	81	372	22%
	4pm - 5pm	364	105	469	22%
	5pm - 6pm	303	122	425	29%
	6pm - 7pm	253	107	360	30%
	7pm - 8pm	210	116	326	36%
	8pm - 9pm	174	89	263	34%
9pm - 10pm	116	71	187	38%	
10pm - 11pm	101	73	174	42%	
11pm - 12pm	75	47	122	39%	
Tuesday Total		3986	1773	5759	31%
Wednesday 8/18/99	12am - 1am	42	47	89	53%
	1am - 2am	26	36	62	58%
	2am - 3am	16	33	49	67%
	3am - 4am	19	32	51	63%
	4am - 5am	13	28	41	68%
	5am - 6am	49	29	78	37%
	6am - 7am	117	44	161	27%
	7am - 8am	196	52	248	21%
	8am - 9am	220	60	280	21%
	9am - 10am	299	49	348	14%
	10am - 11am	297	67	364	18%
	11am - 12pm	339	100	439	23%
	12pm - 1pm	322	64	386	17%
	1pm - 2pm	363	88	451	20%
	2pm - 3pm	362	84	446	19%
	3pm - 4pm	384	100	484	21%
	4pm - 5pm	447	110	557	20%
	5pm - 6pm	502	113	615	18%
	6pm - 7pm	315	97	412	24%
	7pm - 8pm	217	84	301	28%
	8pm - 9pm	231	82	313	26%
9pm - 10pm	188	89	277	32%	
10pm - 11pm	112	41	153	27%	
11pm - 12pm	94	60	154	39%	
Wednesday Total		5170	1589	6759	24%

APPENDIX A
HOURLY COUNT OF VEHICLES ON I-94 EASTBOUND
WEST OF IVERSON LAKE REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Thursday 8/19/99	12am - 1am	43	26	69	38%
	1am - 2am	41	33	74	45%
	2am - 3am	34	33	67	49%
	3am - 4am	28	36	64	56%
	4am - 5am	23	21	44	48%
	5am - 6am	56	30	86	35%
	6am - 7am	142	46	188	24%
	7am - 8am	214	55	269	20%
	8am - 9am	243	60	303	20%
	9am - 10am	352	73	425	17%
	10am - 11am	395	72	467	15%
	11am - 12pm	395	83	478	17%
	12pm - 1pm	405	60	465	13%
	1pm - 2pm	434	64	498	13%
	2pm - 3pm	499	83	582	14%
	3pm - 4pm	500	65	565	12%
	4pm - 5pm	506	98	604	16%
	5pm - 6pm	483	87	570	15%
	6pm - 7pm	390	83	473	18%
	7pm - 8pm	342	60	402	15%
	8pm - 9pm	257	61	318	19%
9pm - 10pm	NA	NA	NA	N	
10pm - 11pm	NA	NA	NA	N	
11pm - 12pm	NA	NA	NA	N	
Thursday Total		5782	1229	7011	18%
Friday 8/20/99	12am - 1am	NA	NA	NA	NA
	1am - 2am	NA	NA	NA	NA
	2am - 3am	NA	NA	NA	NA
	3am - 4am	NA	NA	NA	NA
	4am - 5am	NA	NA	NA	NA
	5am - 6am	NA	NA	NA	NA
	6am - 7am	NA	NA	NA	NA
	7am - 8am	NA	NA	NA	NA
	8am - 9am	NA	NA	NA	NA
	9am - 10am	NA	NA	NA	NA
	10am - 11am	NA	NA	NA	NA
	11am - 12pm	NA	NA	NA	NA
	12pm - 1pm	NA	NA	NA	NA
	1pm - 2pm	NA	NA	NA	NA
	2pm - 3pm	NA	NA	NA	NA
	3pm - 4pm	NA	NA	NA	NA
	4pm - 5pm	NA	NA	NA	NA
	5pm - 6pm	NA	NA	NA	NA
	6pm - 7pm	NA	NA	NA	NA
	7pm - 8pm	NA	NA	NA	NA
	8pm - 9pm	NA	NA	NA	NA
9pm - 10pm	NA	NA	NA	NA	
10pm - 11pm	NA	NA	NA	NA	
11pm - 12pm	NA	NA	NA	NA	
Friday Total		NA	NA	NA	NA
Saturday 8/21/99	12am - 1am	67	23	90	26%
	1am - 2am	48	14	62	23%
	2am - 3am	30	20	50	40%
	3am - 4am	30	14	44	32%
	4am - 5am	36	15	51	29%
	5am - 6am	56	11	67	16%
	6am - 7am	109	23	132	17%
	Saturday Total	376	120	496	24%

APPENDIX A
HOURLY COUNT OF VEHICLES ON I-94 EASTBOUND
WEST OF LAKE LAKOTA REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Monday 8/16/99	7pm - 8pm	NA	NA	NA	NA
	8pm - 9pm	NA	NA	NA	NA
	9pm - 10pm	NA	NA	NA	NA
	10pm - 11pm	NA	NA	NA	NA
	11pm - 12am	NA	NA	NA	NA
	Monday Total	NA	NA	NA	NA
Tuesday 8/17/99	12am - 1am	NA	NA	NA	NA
	1am - 2am	NA	NA	NA	NA
	2am - 3am	NA	NA	NA	NA
	3am - 4am	NA	NA	NA	NA
	4am - 5am	NA	NA	NA	NA
	5am - 6am	NA	NA	NA	NA
	6am - 7am	NA	NA	NA	NA
	7am - 8am	NA	NA	NA	NA
	8am - 9am	NA	NA	NA	NA
	9am - 10am	NA	NA	NA	NA
	10am - 11am	NA	NA	NA	NA
	11am - 12pm	NA	NA	NA	NA
	12pm - 1pm	NA	NA	NA	NA
	1pm - 2pm	NA	NA	NA	NA
	2pm - 3pm	NA	NA	NA	NA
	3pm - 4pm	NA	NA	NA	NA
	4pm - 5pm	NA	NA	NA	NA
	5pm - 6pm	327	68	395	17%
	6pm - 7pm	305	80	385	21%
	7pm - 8pm	244	83	327	25%
	8pm - 9pm	219	86	305	28%
	9pm - 10pm	141	82	223	37%
10pm - 11pm	114	64	178	36%	
11pm - 12pm	66	48	114	42%	
Tuesday Total	1416	511	1927	27%	
Wednesday 8/18/99	12am - 1am	37	40	77	52%
	1am - 2am	38	28	66	42%
	2am - 3am	19	33	52	63%
	3am - 4am	19	26	45	58%
	4am - 5am	24	29	53	55%
	5am - 6am	80	30	110	27%
	6am - 7am	171	34	205	17%
	7am - 8am	281	44	325	14%
	8am - 9am	278	66	344	19%
	9am - 10am	315	53	368	14%
	10am - 11am	321	74	395	19%
	11am - 12pm	340	73	413	18%
	12pm - 1pm	327	62	389	16%
	1pm - 2pm	363	63	426	15%
	2pm - 3pm	381	82	463	18%
	3pm - 4pm	359	82	441	19%
	4pm - 5pm	394	91	485	19%
	5pm - 6pm	354	90	444	20%
	6pm - 7pm	346	89	435	20%
	7pm - 8pm	212	92	304	30%
	8pm - 9pm	173	84	257	33%
	9pm - 10pm	129	85	214	40%
10pm - 11pm	88	73	161	45%	
11pm - 12pm	47	62	109	57%	
Wednesday Total	5096	1485	6581	23%	

APPENDIX A

HOURLY COUNT OF VEHICLES ON I-94 EASTBOUND
WEST OF LAKE LAKOTA REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Thursday 8/19/99	12am - 1am	40	36	76	47%
	1am - 2am	18	27	45	60%
	2am - 3am	22	36	58	62%
	3am - 4am	20	34	54	63%
	4am - 5am	41	24	65	37%
	5am - 6am	76	30	106	28%
	6am - 7am	169	44	213	21%
	7am - 8am	289	53	342	15%
	8am - 9am	272	55	327	17%
	9am - 10am	346	82	428	19%
	10am - 11am	387	80	467	17%
	11am - 12pm	408	74	482	15%
	12pm - 1pm	424	65	489	13%
	1pm - 2pm	365	68	433	16%
	2pm - 3pm	446	68	514	13%
	3pm - 4pm	430	80	510	16%
	4pm - 5pm	422	79	501	16%
	5pm - 6pm	431	89	520	17%
	6pm - 7pm	382	97	479	20%
	7pm - 8pm	307	83	390	21%
8pm - 9pm	230	71	301	24%	
9pm - 10pm	165	53	218	24%	
10pm - 11pm	NA	NA	NA	NA	
11pm - 12pm	NA	NA	NA	NA	
Thursday Total		5690	1328	7018	19%
Friday 8/20/99	12am - 1am	44	34	78	44%
	1am - 2am	38	27	65	42%
	2am - 3am	33	31	64	48%
	3am - 4am	20	21	41	51%
	4am - 5am	33	28	61	46%
	5am - 6am	77	33	110	30%
	6am - 7am	149	36	185	19%
	7am - 8am	245	38	283	13%
	8am - 9am	306	66	372	18%
	9am - 10am	372	64	436	15%
	10am - 11am	439	68	507	13%
	11am - 12pm	508	62	570	11%
	12pm - 1pm	484	73	557	13%
	1pm - 2pm	569	64	633	10%
	2pm - 3pm	567	43	610	7%
	3pm - 4pm	603	56	659	8%
	4pm - 5pm	526	57	583	10%
	5pm - 6pm	534	58	592	10%
	6pm - 7pm	536	51	587	9%
	7pm - 8pm	452	50	502	10%
8pm - 9pm	356	33	389	8%	
9pm - 10pm	224	39	263	15%	
10pm - 11pm	175	41	216	19%	
11pm - 12pm	NA	NA	NA	NA	
Friday Total		7290	1073	8363	13%
Saturday 8/21/99	12am - 1am	50	19	69	28%
	1am - 2am	50	11	61	18%
	2am - 3am	29	14	43	33%
	3am - 4am	21	19	40	48%
	4am - 5am	42	14	56	25%
	5am - 6am	50	14	64	22%
	6am - 7am	131	16	147	11%
	Saturday Total		373	107	480

APPENDIX A
HOURLY COUNT OF VEHICLES ON I-94 EASTBOUND
WEST OF BIG SPUNK LAKE REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Monday 8/16/99	7pm - 8pm	NA	NA	NA	NA
	8pm - 9pm	NA	NA	NA	NA
	9pm - 10pm	NA	NA	NA	NA
	10pm - 11pm	NA	NA	NA	NA
	11pm - 12am	NA	NA	NA	NA
	Monday Total	NA	NA	NA	NA
Tuesday 8/17/99	12am - 1am	NA	NA	NA	NA
	1am - 2am	NA	NA	NA	NA
	2am - 3am	NA	NA	NA	NA
	3am - 4am	NA	NA	NA	NA
	4am - 5am	NA	NA	NA	NA
	5am - 6am	NA	NA	NA	NA
	6am - 7am	NA	NA	NA	NA
	7am - 8am	NA	NA	NA	NA
	8am - 9am	NA	NA	NA	NA
	9am - 10am	NA	NA	NA	NA
	10am - 11am	NA	NA	NA	NA
	11am - 12pm	NA	NA	NA	NA
	12pm - 1pm	NA	NA	NA	NA
	1pm - 2pm	NA	NA	NA	NA
	2pm - 3pm	NA	NA	NA	NA
	3pm - 4pm	NA	NA	NA	NA
	4pm - 5pm	NA	NA	NA	NA
	5pm - 6pm	NA	NA	NA	NA
	6pm - 7pm	NA	NA	NA	NA
	7pm - 8pm	NA	NA	NA	NA
	8pm - 9pm	NA	NA	NA	NA
9pm - 10pm	NA	NA	NA	NA	
10pm - 11pm	NA	NA	NA	NA	
11pm - 12pm	NA	NA	NA	NA	
Tuesday Total	NA	NA	NA	NA	
Wednesday 8/18/99	12am - 1am	58	41	99	41%
	1am - 2am	39	31	70	44%
	2am - 3am	49	25	74	34%
	3am - 4am	48	43	91	47%
	4am - 5am	122	43	165	26%
	5am - 6am	225	48	273	18%
	6am - 7am	435	61	496	12%
	7am - 8am	573	76	649	12%
	8am - 9am	524	71	595	12%
	9am - 10am	616	99	715	14%
	10am - 11am	621	79	700	11%
	11am - 12pm	596	102	698	15%
	12pm - 1pm	599	81	680	12%
	1pm - 2pm	616	80	696	11%
	2pm - 3pm	698	87	785	11%
	3pm - 4pm	704	94	798	12%
	4pm - 5pm	614	95	709	13%
	5pm - 6pm	699	120	819	15%
	6pm - 7pm	585	96	681	14%
	7pm - 8pm	444	96	540	18%
	8pm - 9pm	285	96	381	25%
9pm - 10pm	256	87	343	25%	
10pm - 11pm	195	96	291	33%	
11pm - 12pm	110	70	180	39%	
Wednesday Total	9711	1817	11528	16%	

APPENDIX A
HOURLY COUNT OF VEHICLES ON I-94 EASTBOUND
WEST OF BIG SPUNK LAKE REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Thursday 8/19/99	12am - 1am	78	48	126	38%
	1am - 2am	44	52	96	54%
	2am - 3am	27	34	61	56%
	3am - 4am	53	47	100	47%
	4am - 5am	95	45	140	32%
	5am - 6am	241	38	279	14%
	6am - 7am	437	85	522	16%
	7am - 8am	569	136	705	19%
	8am - 9am	498	160	658	24%
	9am - 10am	644	148	792	19%
	10am - 11am	716	198	914	22%
	11am - 12pm	733	198	931	21%
	12pm - 1pm	684	186	870	21%
	1pm - 2pm	740	155	895	17%
	2pm - 3pm	868	133	1001	13%
	3pm - 4pm	827	159	986	16%
	4pm - 5pm	738	125	863	14%
	5pm - 6pm	675	97	772	13%
	6pm - 7pm	585	105	690	15%
	7pm - 8pm	454	108	562	19%
8pm - 9pm	428	72	500	14%	
9pm - 10pm	321	85	406	21%	
10pm - 11pm	240	54	NA	NA	
11pm - 12pm	106	37	NA	NA	
	Thursday Total	10801	2505	13306	19%
Friday 8/20/99	12am - 1am	74	39	113	35%
	1am - 2am	58	47	105	45%
	2am - 3am	61	23	84	27%
	3am - 4am	47	36	83	43%
	4am - 5am	93	45	138	33%
	5am - 6am	208	37	245	15%
	6am - 7am	394	61	455	13%
	7am - 8am	501	64	565	11%
	8am - 9am	480	88	568	15%
	9am - 10am	587	93	680	14%
	10am - 11am	756	107	863	12%
	11am - 12pm	767	90	857	11%
	12pm - 1pm	863	111	974	11%
	1pm - 2pm	862	82	944	9%
	2pm - 3pm	935	71	1006	7%
	3pm - 4pm	905	80	985	8%
	4pm - 5pm	899	60	959	6%
	5pm - 6pm	870	68	938	7%
	6pm - 7pm	774	67	841	8%
	7pm - 8pm	699	64	763	8%
8pm - 9pm	152	10	162	6%	
9pm - 10pm	NA	NA	NA	NA	
10pm - 11pm	NA	NA	NA	NA	
11pm - 12pm	NA	NA	NA	NA	
	Friday Total	10985	1343	12328	11%
Saturday 8/21/99	12am - 1am	157	26	183	14%
	1am - 2am	88	24	112	21%
	2am - 3am	57	12	69	17%
	3am - 4am	57	17	74	23%
	4am - 5am	54	19	73	26%
	5am - 6am	89	26	115	23%
	6am - 7am	115	19	134	14%
	Saturday Total	617	143	760	19%

APPENDIX A
HOURLY COUNT OF VEHICLES ENTERING REST AREA
IVERSON LAKE REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Monday 8/16/99	7pm - 8pm	10	8	18	44%
	8pm - 9pm	4	10	14	71%
	9pm - 10pm	5	7	12	58%
	10pm - 11pm	4	5	9	56%
	11pm - 12am	9	7	16	44%
	Monday Total		32	37	69
Tuesday 8/17/99	12am - 1am	3	3	6	50%
	1am - 2am	3	6	9	67%
	2am - 3am	2	1	3	33%
	3am - 4am	0	0	0	#DIV/0!
	4am - 5am	2	1	3	33%
	5am - 6am	0	3	3	100%
	6am - 7am	5	2	7	29%
	7am - 8am	11	5	16	31%
	8am - 9am	15	6	21	29%
	9am - 10am	21	4	25	16%
	10am - 11am	37	2	39	5%
	11am - 12pm	22	10	32	31%
	12pm - 1pm	28	17	45	38%
	1pm - 2pm	25	7	32	22%
	2pm - 3pm	20	14	34	41%
	3pm - 4pm	25	7	32	22%
	4pm - 5pm	21	6	27	22%
	5pm - 6pm	17	5	22	23%
	6pm - 7pm	22	9	31	29%
	7pm - 8pm	7	3	10	30%
	8pm - 9pm	12	12	24	50%
	9pm - 10pm	3	2	5	40%
10pm - 11pm	5	7	12	58%	
11pm - 12pm	8	6	14	43%	
Tuesday Total		314	138	452	31%
Wednesday 8/18/99	12am - 1am	5	4	9	44%
	1am - 2am	4	5	9	56%
	2am - 3am	3	4	7	57%
	3am - 4am	0	3	3	100%
	4am - 5am	1	4	5	80%
	5am - 6am	2	2	4	50%
	6am - 7am	6	8	14	57%
	7am - 8am	14	5	19	26%
	8am - 9am	16	7	23	30%
	9am - 10am	21	6	27	22%
	10am - 11am	25	10	35	29%
	11am - 12pm	25	13	38	34%
	12pm - 1pm	19	11	30	37%
	1pm - 2pm	22	16	38	42%
	2pm - 3pm	35	7	42	17%
	3pm - 4pm	29	8	37	22%
	4pm - 5pm	24	9	33	27%
	5pm - 6pm	19	10	29	34%
	6pm - 7pm	14	9	23	39%
	7pm - 8pm	5	6	11	55%
	8pm - 9pm	9	5	14	36%
	9pm - 10pm	10	8	18	44%
10pm - 11pm	6	5	11	45%	
11pm - 12pm	3	6	9	67%	
Wednesday Total		317	171	488	35%

APPENDIX A
HOURLY COUNT OF VEHICLES ENTERING REST AREA
IVERSON LAKE REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Thursday 8/19/99	12am - 1am	2	5	7	71%
	1am - 2am	4	4	8	50%
	2am - 3am	3	5	8	63%
	3am - 4am	2	4	6	67%
	4am - 5am	1	3	4	75%
	5am - 6am	4	6	10	60%
	6am - 7am	4	3	7	43%
	7am - 8am	11	7	18	39%
	8am - 9am	18	7	25	28%
	9am - 10am	25	8	33	24%
	10am - 11am	37	10	47	21%
	11am - 12pm	41	10	51	20%
	12pm - 1pm	24	11	35	31%
	1pm - 2pm	21	11	32	34%
	2pm - 3pm	42	11	53	21%
	3pm - 4pm	32	11	43	26%
	4pm - 5pm	29	13	42	31%
	5pm - 6pm	17	10	27	37%
	6pm - 7pm	15	7	22	32%
	7pm - 8pm	14	6	20	30%
	8pm - 9pm	16	7	23	30%
9pm - 10pm	8	3	11	27%	
10pm - 11pm	17	4	NA	NA	
11pm - 12pm	3	1	NA	NA	
Thursday Total		390	167	557	30%
Friday 8/20/99	12am - 1am	1	3	4	75%
	1am - 2am	1	2	3	67%
	2am - 3am	4	2	6	33%
	3am - 4am	6	3	9	33%
	4am - 5am	2	5	7	71%
	5am - 6am	3	3	6	50%
	6am - 7am	8	1	9	11%
	7am - 8am	10	5	15	33%
	8am - 9am	21	8	29	28%
	9am - 10am	17	6	23	26%
	10am - 11am	35	16	51	31%
	11am - 12pm	53	6	59	10%
	12pm - 1pm	33	12	45	27%
	1pm - 2pm	36	5	41	12%
	2pm - 3pm	39	8	47	17%
	3pm - 4pm	38	4	42	10%
	4pm - 5pm	36	5	41	12%
	5pm - 6pm	35	8	43	19%
	6pm - 7pm	26	5	31	16%
	7pm - 8pm	21	5	26	19%
	8pm - 9pm	16	6	22	27%
9pm - 10pm	10	5	15	33%	
10pm - 11pm	4	1	5	20%	
11pm - 12pm	7	3	10	30%	
Friday Total		462	127	589	22%
Saturday 8/21/99	12am - 1am	5	3	8	38%
	1am - 2am	2	0	2	0%
	2am - 3am	6	6	12	50%
	3am - 4am	3	1	4	25%
	4am - 5am	5	1	6	17%
	5am - 6am	1	2	3	67%
	6am - 7am	6	2	8	25%
Saturday Total		28	15	43	35%

**APPENDIX A
HOURLY COUNT OF VEHICLES ENTERING REST AREA
LAKE LAKOTA REST AREA ENTRANCE RAMP**

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Monday 8/16/99	7pm - 8pm	13	13	26	50%
	8pm - 9pm	10	8	18	44%
	9pm - 10pm	9	6	15	40%
	10pm - 11pm	4	7	11	64%
	11pm - 12am	2	11	13	85%
	Monday Total	38	45	83	54%
Tuesday 8/17/99	12am - 1am	5	13	18	72%
	1am - 2am	2	5	7	71%
	2am - 3am	5	10	15	67%
	3am - 4am	2	3	5	60%
	4am - 5am	4	5	9	56%
	5am - 6am	2	0	2	0%
	6am - 7am	11	5	16	31%
	7am - 8am	14	5	19	26%
	8am - 9am	23	9	32	28%
	9am - 10am	31	6	37	16%
	10am - 11am	37	17	54	31%
	11am - 12pm	31	11	42	26%
	12pm - 1pm	32	12	44	27%
	1pm - 2pm	33	13	46	28%
	2pm - 3pm	37	13	50	26%
	3pm - 4pm	31	9	40	23%
	4pm - 5pm	26	17	43	40%
	5pm - 6pm	21	7	28	25%
	6pm - 7pm	16	12	28	43%
	7pm - 8pm	18	5	23	22%
	8pm - 9pm	14	8	22	36%
	9pm - 10pm	6	8	14	57%
10pm - 11pm	8	11	19	58%	
11pm - 12pm	4	4	8	50%	
Tuesday Total	413	208	621	33%	
Wednesday 8/18/99	12am - 1am	10	12	22	55%
	1am - 2am	4	4	8	50%
	2am - 3am	4	9	13	69%
	3am - 4am	4	4	8	50%
	4am - 5am	0	5	5	100%
	5am - 6am	1	3	4	75%
	6am - 7am	6	8	14	57%
	7am - 8am	12	5	17	29%
	8am - 9am	15	11	26	42%
	9am - 10am	26	8	34	24%
	10am - 11am	32	6	38	16%
	11am - 12pm	35	14	49	29%
	12pm - 1pm	28	21	49	43%
	1pm - 2pm	30	10	40	25%
	2pm - 3pm	27	19	46	41%
	3pm - 4pm	38	19	57	33%
	4pm - 5pm	38	16	54	30%
	5pm - 6pm	33	12	45	27%
	6pm - 7pm	27	12	39	31%
	7pm - 8pm	18	12	30	40%
	8pm - 9pm	18	6	24	25%
	9pm - 10pm	15	15	30	50%
10pm - 11pm	5	7	12	58%	
11pm - 12pm	6	6	12	50%	
Wednesday Total	432	244	676	36%	

APPENDIX A
HOURLY COUNT OF VEHICLES ENTERING REST AREA
LAKE LAKOTA REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Thursday 8/19/99	12am - 1am	5	17	22	77%
	1am - 2am	1	7	8	88%
	2am - 3am	4	2	6	33%
	3am - 4am	3	6	9	67%
	4am - 5am	2	4	6	67%
	5am - 6am	3	5	8	63%
	6am - 7am	7	5	12	42%
	7am - 8am	7	16	23	70%
	8am - 9am	22	13	35	37%
	9am - 10am	34	9	43	21%
	10am - 11am	50	19	69	28%
	11am - 12pm	33	7	40	18%
	12pm - 1pm	31	10	41	24%
	1pm - 2pm	48	14	62	23%
	2pm - 3pm	29	11	40	28%
	3pm - 4pm	38	12	50	24%
	4pm - 5pm	40	9	49	18%
	5pm - 6pm	18	8	26	31%
	6pm - 7pm	10	10	20	50%
	7pm - 8pm	26	7	33	21%
8pm - 9pm	7	8	15	53%	
9pm - 10pm	14	10	24	42%	
10pm - 11pm	11	5	NA	NA	
11pm - 12pm	5	11	NA	NA	
Thursday Total		448	225	673	33%
Friday 8/20/99	12am - 1am	7	8	15	53%
	1am - 2am	4	4	8	50%
	2am - 3am	3	6	9	67%
	3am - 4am	5	7	12	58%
	4am - 5am	1	4	5	80%
	5am - 6am	2	6	8	75%
	6am - 7am	2	5	7	71%
	7am - 8am	16	6	22	27%
	8am - 9am	25	4	29	14%
	9am - 10am	47	5	52	10%
	10am - 11am	56	8	64	13%
	11am - 12pm	54	13	67	19%
	12pm - 1pm	39	5	44	11%
	1pm - 2pm	59	9	68	13%
	2pm - 3pm	61	8	69	12%
	3pm - 4pm	65	12	77	16%
	4pm - 5pm	51	7	58	12%
	5pm - 6pm	26	6	32	19%
	6pm - 7pm	35	7	42	17%
	7pm - 8pm	35	4	39	10%
8pm - 9pm	19	3	22	14%	
9pm - 10pm	14	8	22	36%	
10pm - 11pm	17	6	23	26%	
11pm - 12pm	9	3	12	25%	
Friday Total		652	154	806	19%
Saturday 8/21/99	12am - 1am	11	3	14	21%
	1am - 2am	7	4	11	36%
	2am - 3am	4	5	9	56%
	3am - 4am	9	1	10	10%
	4am - 5am	0	3	3	100%
	5am - 6am	6	2	8	25%
	6am - 7am	10	3	13	23%
Saturday Total		47	21	68	31%

**APPENDIX A
HOURLY COUNT OF VEHICLES ENTERING REST AREA
BIG SPUNK LAKE REST AREA ENTRANCE RAMP**

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Monday 8/16/99	7pm - 8pm	24	8	32	25%
	8pm - 9pm	16	13	29	45%
	9pm - 10pm	17	14	31	45%
	10pm - 11pm	14	5	19	26%
	11pm - 12am	5	10	15	67%
	Monday Total	76	50	126	40%
Tuesday 8/17/99	12am - 1am	2	4	6	67%
	1am - 2am	8	14	22	64%
	2am - 3am	2	2	4	50%
	3am - 4am	5	5	10	50%
	4am - 5am	5	4	9	44%
	5am - 6am	5	7	12	58%
	6am - 7am	7	4	11	36%
	7am - 8am	9	13	22	59%
	8am - 9am	28	12	40	30%
	9am - 10am	32	9	41	22%
	10am - 11am	44	11	55	20%
	11am - 12pm	43	13	56	23%
	12pm - 1pm	29	9	38	24%
	1pm - 2pm	32	13	45	29%
	2pm - 3pm	42	13	55	24%
	3pm - 4pm	31	13	44	30%
	4pm - 5pm	39	13	52	25%
	5pm - 6pm	29	10	39	26%
	6pm - 7pm	24	4	28	14%
	7pm - 8pm	25	4	29	14%
	8pm - 9pm	9	4	13	31%
	9pm - 10pm	9	8	17	47%
10pm - 11pm	9	5	14	36%	
11pm - 12pm	7	8	15	53%	
Tuesday Total	475	202	677	30%	
Wednesday 8/18/99	12am - 1am	6	4	10	40%
	1am - 2am	2	7	9	78%
	2am - 3am	4	7	11	64%
	3am - 4am	1	8	9	89%
	4am - 5am	1	8	9	89%
	5am - 6am	4	7	11	64%
	6am - 7am	10	9	19	47%
	7am - 8am	21	11	32	34%
	8am - 9am	24	10	34	29%
	9am - 10am	33	9	42	21%
	10am - 11am	34	12	46	26%
	11am - 12pm	24	20	44	45%
	12pm - 1pm	33	11	44	25%
	1pm - 2pm	30	15	45	33%
	2pm - 3pm	35	18	53	34%
	3pm - 4pm	40	18	58	31%
	4pm - 5pm	28	16	44	36%
	5pm - 6pm	30	17	47	36%
	6pm - 7pm	17	13	30	43%
	7pm - 8pm	18	8	26	31%
	8pm - 9pm	15	10	25	40%
	9pm - 10pm	5	3	8	38%
10pm - 11pm	5	5	10	50%	
11pm - 12pm	3	11	14	79%	
Wednesday Total	423	257	680	38%	

APPENDIX A
HOURLY COUNT OF VEHICLES ENTERING REST AREA
BIG SPUNK LAKE REST AREA ENTRANCE RAMP

Day of Week	Hour of Day	Passenger Vehicles	Oversized Vehicles	Total Vehicles	% of Oversized Vehicles
Thursday 8/19/99	12am - 1am	2	6	8	75%
	1am - 2am	6	2	8	25%
	2am - 3am	3	6	9	67%
	3am - 4am	5	3	8	38%
	4am - 5am	4	5	9	56%
	5am - 6am	4	2	6	33%
	6am - 7am	8	5	13	38%
	7am - 8am	10	2	12	17%
	8am - 9am	19	6	25	24%
	9am - 10am	24	5	29	17%
	10am - 11am	36	11	47	23%
	11am - 12pm	23	6	29	21%
	12pm - 1pm	24	1	25	4%
	1pm - 2pm	21	2	23	9%
	2pm - 3pm	29	6	35	17%
	3pm - 4pm	35	7	42	17%
	4pm - 5pm	31	12	43	28%
	5pm - 6pm	45	7	52	13%
	6pm - 7pm	32	7	39	18%
	7pm - 8pm	28	9	37	24%
	8pm - 9pm	19	11	30	37%
9pm - 10pm	13	5	18	28%	
10pm - 11pm	9	3	NA	NA	
11pm - 12pm	6	10	NA	NA	
Thursday Total		436	139	575	24%
Friday 8/20/99	12am - 1am	4	5	9	56%
	1am - 2am	5	2	7	29%
	2am - 3am	8	4	12	33%
	3am - 4am	3	5	8	63%
	4am - 5am	0	1	1	100%
	5am - 6am	7	2	9	22%
	6am - 7am	10	3	13	23%
	7am - 8am	17	6	23	26%
	8am - 9am	21	3	24	13%
	9am - 10am	31	8	39	21%
	10am - 11am	48	10	58	17%
	11am - 12pm	74	5	79	6%
	12pm - 1pm	48	9	57	16%
	1pm - 2pm	62	12	74	16%
	2pm - 3pm	69	7	76	9%
	3pm - 4pm	62	8	70	11%
	4pm - 5pm	63	11	74	15%
	5pm - 6pm	51	7	58	12%
	6pm - 7pm	31	6	37	16%
	7pm - 8pm	25	7	32	22%
	8pm - 9pm	34	7	41	17%
9pm - 10pm	20	4	24	17%	
10pm - 11pm	17	10	27	37%	
11pm - 12pm	12	5	17	29%	
Friday Total		722	147	869	17%
Saturday 8/21/99	12am - 1am	18	5	23	22%
	1am - 2am	6	2	8	25%
	2am - 3am	5	3	8	38%
	3am - 4am	3	2	5	40%
	4am - 5am	4	0	4	0%
	5am - 6am	16	4	20	20%
	6am - 7am	15	2	17	12%
Saturday Total		67	18	85	21%

APPENDIX B

Dwell Times Broken Out by Arrival Times

APPENDIX B

BREAKDOWN OF DWELL TIMES BY ARRIVAL TIMES FOR PARTIALLY OBSERVED VEHICLES

REST AREA	DAY	HOUR IN	LESS THAN 15 MIN	15 to 30 MIN	> 30 MIN to 1 HOUR	> 1 HOUR to 3 HOURS	> 3 HOURS to 5 HOURS	> 5 HOURS	TOTAL	
Iverson Rest Area	Monday 8/16/99	before survey	1		1	1	2	4	9	
		11pm - 12am						1	1	
		12am - 1am								
		1am - 2am								
		2am - 3am								
		3am - 4am								
		4am - 5am								
		5am - 6am								
		6am - 7am			1					1
	Monday Total			1	1	1	1	2	5	11
	Tuesday 8/17/99	before survey	2			1			5	8
		11pm - 12am							1	1
		12am - 1am							1	1
		1am - 2am							3	3
		2am - 3am						2		2
		3am - 4am						2		2
		4am - 5am					1			1
		5am - 6am					1			1
		6am - 7am	1							1
	Tuesday Total			3		3	4	10	20	
	Wednesday 8/18/99	before survey	2			1	2	2		7
		11pm - 12am							1	1
		12am - 1am							1	1
		1am - 2am							1	1
		2am - 3am						3		3
		3am - 4am						1		1
		4am - 5am					1			1
		5am - 6am					1			1
		6am - 7am			1	1				2
	Wednesday Total			2	1	1	3	6	5	18
	Thursday 8/19/99	before survey				1	1		5	7
		11pm - 12am								
		12am - 1am							2	2
		1am - 2am								
		2am - 3am						1		1
		3am - 4am						2		2
		4am - 5am					2			2
		5am - 6am					1			1
		6am - 7am								
	Thursday Total					1	4	3	7	15
	Friday 8/20/99	before survey							2	2
		11pm - 12am								
		12am - 1am							1	1
		1am - 2am								
		2am - 3am						3		3
3am - 4am										
4am - 5am										
5am - 6am										
6am - 7am				1					1	
Friday Total				1			3	3	7	
Total for Week			7	3	3	11	18	30	71	

NOTE: Survey data collected from 8/16/99 to 8/20/99 between 11:00 PM and 7:00 AM.

Source: BRW, Inc.

10/18/00

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APPENDIX B

BREAKDOWN OF DWELL TIMES BY ARRIVAL TIMES FOR PARTIALLY OBSERVED VEHICLES

REST AREA	DAY	HOUR IN	LESS THAN 15 MIN	15 to 30 MIN	> 30 MIN to 1 HOUR	> 1 HOUR to 3 HOURS	> 3 HOURS to 5 HOURS	> 5 HOURS	TOTAL	
Lakota Rest Area	Monday 8/16/99	before survey	1	2			2	6	11	
		11pm - 12am						4	4	
		12am - 1am						3	3	
		1am - 2am						1	1	
		2am - 3am						3	3	
		3am - 4am								
		4am - 5am					2			2
		5am - 6am								
		6am - 7am	1							1
	Monday Total			2	2	2	5	14	25	
	Tuesday 8/17/99	before survey				1	1	3	5	10
		11pm - 12am							2	2
		12am - 1am							2	2
		1am - 2am							1	1
		2am - 3am						2		2
		3am - 4am								
		4am - 5am					1			1
		5am - 6am					1			1
		6am - 7am	3	1						4
	Tuesday Total			3	1	1	3	5	10	23
	Wednesday 8/18/99	before survey	1			1	2	1	11	16
		11pm - 12am							2	2
		12am - 1am							7	7
		1am - 2am							1	2
		2am - 3am								
		3am - 4am						1		1
		4am - 5am								
		5am - 6am					1			1
		6am - 7am		2						2
	Wednesday Total			1	2	1	3	2	21	30
	Thursday 8/19/99	before survey	1					1	2	4
		11pm - 12am							1	1
		12am - 1am							1	1
		1am - 2am							1	1
		2am - 3am						1		1
		3am - 4am						3		3
		4am - 5am					1			1
		5am - 6am					2			2
		6am - 7am	2			1				3
	Thursday Total			3		1	3	5	5	17
	Friday 8/20/99	before survey		1			1		8	10
		11pm - 12am								
		12am - 1am								
		1am - 2am							2	2
		2am - 3am								
		3am - 4am						1		1
		4am - 5am					1			1
5am - 6am						1			1	
6am - 7am										
Friday Total				1		3	1	10	15	
Total for Week			9	6	3	15	18	60	110	

NOTE: Survey data collected from 8/16/99 to 8/20/99 between 11:00 PM and 7:00 AM.

Source: BRW, Inc.

10/18/00

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APPENDIX B

BREAKDOWN OF DWELL TIMES BY ARRIVAL TIMES FOR PARTIALLY OBSERVED VEHICLES

REST AREA	DAY	HOUR IN	LESS THAN 15 MIN	15 to 30 MIN	> 30 MIN to 1 HOUR	> 1 HOUR to 3 HOURS	> 3 HOURS to 5 HOURS	> 5 HOURS	TOTAL	
Big Spunk Rest Area	3 Monday 8/16/99	before survey		1			2	8	11	
		11pm - 12am								
		12am - 1am								
		1am - 2am						4	4	
		2am - 3am								
		3am - 4am					2		2	
		4am - 5am								
		5am - 6am				1			1	
	6am - 7am				1			1		
	Monday Total				1	1	1	4	12	19
	Tuesday 8/17/99	before survey	1			4		4	9	
		11pm - 12am						2	2	
		12am - 1am						1	1	
		1am - 2am								
		2am - 3am								
		3am - 4am								
		4am - 5am				1			1	
		5am - 6am			2				2	
	6am - 7am	1		1				2		
	Tuesday Total			2	1	7	7	7	17	
	Wednesday 8/18/99	before survey	1	1	1	1	2	6	12	
		11pm - 12am						6	6	
		12am - 1am						1	1	
		1am - 2am						1	1	
		2am - 3am								
		3am - 4am					2		2	
		4am - 5am				1			1	
		5am - 6am			1				1	
	6am - 7am	1		1				2		
	Wednesday Total			2	1	2	3	4	14	26
	Thursday 8/19/99	before survey					3	5	8	
		11pm - 12am								
		12am - 1am						1	1	
		1am - 2am								
		2am - 3am								
		3am - 4am								
		4am - 5am								
		5am - 6am								
	6am - 7am	1	1					2		
	Thursday Total			1	1	3	6	6	11	
	Friday 8/20/99	before survey			1	1	3	7	12	
		11pm - 12am								
		12am - 1am						2	2	
		1am - 2am						1	1	
		2am - 3am					1		1	
3am - 4am										
4am - 5am										
5am - 6am					2			2		
6am - 7am										
Friday Total				1	3	4	10	18		
Total for Week			5	3	5	17	12	49	91	
Grand Total of All Partially Observed Vehicles			21	12	11	43	48	139	272	

NOTE: Survey data collected from 8/16/99 to 8/20/99 between 11:00 PM and 7:00 AM.

Source: BRW, Inc.

10/18/00

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APPENDIX B

BREAKDOWN OF DWELL TIMES BY ARRIVAL TIMES FOR FULLY OBSERVED VEHICLES

REST AREA	DAY	HOUR IN	LESS THAN 15 MIN	15 to 30 MIN	> 30 MIN to 1 HOUR	> 1 HOUR to 3 HOURS	> 3 HOURS to 5 HOURS	> 5 HOURS	TOTAL	
Iverson Rest Area	Monday 8/16/99	11pm - 12am	4	2			3	2	11	
		12am - 1am		1			3		4	
		1am - 2am	4	1						5
		2am - 3am	1	1						2
		3am - 4am								
		4am - 5am					1			1
		5am - 6am			2					2
		6am - 7am	1							1
	Monday Total			10	7		1	6	2	26
	Tuesday 8/17/99	11pm - 12am	3			1				4
		12am - 1am	3					1		4
		1am - 2am	2							2
		2am - 3am	1					1		2
		3am - 4am	1							1
		4am - 5am	2	1						3
		5am - 6am	1							1
		6am - 7am	5	1						6
	Tuesday Total			18	2	1		2		23
	Wednesday 8/18/99	11pm - 12am	4	1						5
		12am - 1am	1	2				1		4
		1am - 2am		1			1	1		3
		2am - 3am				1	1			2
		3am - 4am	3							3
		4am - 5am								
		5am - 6am	3	1			1			5
		6am - 7am	2							2
	Wednesday Total			13	5	1	3	2		24
	Thursday 8/19/99	11pm - 12am				1				1
		12am - 1am						1		1
		1am - 2am	1				1			2
		2am - 3am	1							1
		3am - 4am	1							1
		4am - 5am	1				1			2
5am - 6am		1							1	
6am - 7am		1	1						2	
Thursday Total			6	1	1	2	1		11	
Friday 8/20/99	11pm - 12am			2				1	3	
	12am - 1am	1			1				2	
	1am - 2am									
	2am - 3am	3							3	
	3am - 4am									
	4am - 5am	1							1	
	5am - 6am					2			2	
	6am - 7am									
Friday Total			5	2	1	2		1	11	
Total for Week			52	17	4	8	11	3	95	

NOTE: Survey data collected from 8/16/99 to 8/20/99 between 11:00 PM and 7:00 AM.

APPENDIX B

BREAKDOWN OF DWELL TIMES BY ARRIVAL TIMES FOR FULLY OBSERVED VEHICLES

REST AREA	DAY	HOUR IN	LESS THAN 15 MIN	15 to 30 MIN	> 30 MIN to 1 HOUR	> 1 HOUR to 3 HOURS	> 3 HOURS to 5 HOURS	> 5 HOURS	TOTAL	
Lakota Rest Area	Monday 8/16/99	11pm - 12am	2	2	1		2	2	9	
		12am - 1am	5	2		2		1	10	
		1am - 2am			1	1	1	1	4	
		2am - 3am	6					2	8	
		3am - 4am	1	1	1				3	
		4am - 5am	1		1	2			4	
		5am - 6am								
		6am - 7am	2							2
	Monday Total			17	5	4	5	5	4	40
	Tuesday 8/17/99	11pm - 12am	1	1						2
		12am - 1am	5			1	3	2		11
		1am - 2am	1			1	2			4
		2am - 3am	2	3	1		1			7
		3am - 4am			2	2				4
		4am - 5am	1	1	2					4
		5am - 6am		2						2
		6am - 7am	2	1						3
	Tuesday Total			12	8	5	4	6	2	37
	Wednesday 8/18/99	11pm - 12am	4						3	7
		12am - 1am	10	3	1				5	19
		1am - 2am					1	1		2
		2am - 3am	1			1				2
		3am - 4am	1		1					2
		4am - 5am	3			2				5
		5am - 6am	3		1					4
		6am - 7am		1						1
	Wednesday Total			22	4	3	3	1	9	42
	Thursday 8/19/99	11pm - 12am	3	1			1		5	10
		12am - 1am	5					1		6
		1am - 2am		1	1			1		3
		2am - 3am	1			1	2			4
		3am - 4am	3							3
		4am - 5am			1	2				3
		5am - 6am	3		1					4
		6am - 7am	1							1
	Thursday Total			16	2	3	4	4	5	34
	Friday 8/20/99	11pm - 12am	2							2
		12am - 1am	2					1		3
		1am - 2am	1			1				2
		2am - 3am	2			2	1			5
		3am - 4am				1				1
		4am - 5am	1							1
5am - 6am			1						1	
6am - 7am										
Friday Total			8	1	4	1	1	1	15	
Total for Week			75	20	15	20	17	21	168	

NOTE: Survey data collected from 8/16/99 to 8/20/99 between 11:00 PM and 7:00 AM.

Source: BRW, Inc.

10/18/00

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APPENDIX B

BREAKDOWN OF DWELL TIMES BY ARRIVAL TIMES FOR FULLY OBSERVED VEHICLES

REST AREA	DAY	HOUR IN	LESS THAN 15 MIN	15 to 30 MIN	> 30 MIN to 1 HOUR	> 1 HOUR to 3 HOURS	> 3 HOURS to 5 HOURS	> 5 HOURS	TOTAL	
Big Spunk Rest Area	3 Monday 8/16/99	11pm - 12am	2				2	1	5	
		12am - 1am	2	1			1	1	5	
		1am - 2am	10		1	1	1		13	
		2am - 3am			1	1	1		3	
		3am - 4am	4		1				5	
		4am - 5am	3		2				5	
		5am - 6am	4			1			5	
		6am - 7am	2	2					4	
	Monday Total			27	3	5	3	5	2	45
	Tuesday 8/17/99	11pm - 12am	4		1	1				6
		12am - 1am	4		1	1			2	8
		1am - 2am	1			1	1	1	1	4
		2am - 3am	1							1
		3am - 4am	4		2					6
		4am - 5am	3		1					4
		5am - 6am	3	1						4
		6am - 7am								
	Tuesday Total			20	1	5	3	1	3	33
	Wednesday 8/18/99	11pm - 12am	3						2	5
		12am - 1am	1	1			1		1	4
		1am - 2am							1	1
		2am - 3am	1			2	1			4
		3am - 4am	1			1				2
		4am - 5am	2			2				4
		5am - 6am	1							1
		6am - 7am	4	1						5
	Wednesday Total			13	2		6	1	4	26
	Thursday 8/19/99	11pm - 12am	5	1					4	10
		12am - 1am	1					1	1	3
		1am - 2am		1						1
		2am - 3am				3	1			4
		3am - 4am	1	1		2				4
		4am - 5am								
		5am - 6am	1		1					2
		6am - 7am			1					1
	Thursday Total			8	3	2	5	2	5	25
	Friday 8/20/99	11pm - 12am	3		1				2	6
		12am - 1am	2				1			3
		1am - 2am					1			1
		2am - 3am		1		1				2
		3am - 4am			2					2
		4am - 5am								
		5am - 6am	2			1				3
		6am - 7am								
	Friday Total			7	1	3	4		2	17
Total For Week			75	10	15	21	9	16	146	
Grand Total For Fully Observed Vehicles			202	47	34	49	37	40	409	

NOTE: Survey data collected from 8/16/99 to 8/20/99 between 11:00 PM and 7:00 AM.

Source: BRW, Inc.

10/18/00

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