

# SRF Consulting Group

1 Carlson Parkway  
Plymouth, Minnesota 55447

SRF No. 8765 South Metro Signal Timing  
Location: Mitchell Rd and Technology Dr  
SRF Consulting Group/MnDOT

File Name : Mitchell Rd and South TH 212 Ramps  
Site Code :  
Start Date : 6/11/2013  
Page No : 1

### Groups Printed- Cars+ - Heavy Vehicles

Start Time	Mitchell Rd Southbound					South TH 212 Ramps Westbound					Mitchell Rd Northbound					South TH 212 Ramps Eastbound					Int. Total
	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	
06:00 AM	0	0	58	23	81	1	0	0	0	1	0	38	21	0	59	0	13	0	5	18	159
06:15 AM	0	0	60	24	84	1	0	0	0	1	0	63	28	0	91	2	15	0	7	24	200
06:30 AM	0	0	79	39	118	1	0	0	0	1	0	107	47	0	154	2	24	1	9	36	309
06:45 AM	0	0	115	26	141	1	0	0	0	1	0	103	74	0	177	4	36	0	25	65	384
<b>Total</b>	<b>0</b>	<b>0</b>	<b>312</b>	<b>112</b>	<b>424</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>311</b>	<b>170</b>	<b>0</b>	<b>481</b>	<b>8</b>	<b>88</b>	<b>1</b>	<b>46</b>	<b>143</b>	<b>1052</b>
07:00 AM	0	0	116	41	157	3	0	0	0	3	0	120	69	0	189	1	40	1	9	51	400
07:15 AM	0	0	151	43	194	0	0	0	0	0	0	121	107	0	228	2	47	5	24	78	500
07:30 AM	0	0	148	35	183	0	0	0	0	0	0	111	125	0	236	0	35	2	17	54	473
07:45 AM	0	0	100	30	130	0	0	0	0	0	0	65	81	0	146	1	24	0	15	40	316
<b>Total</b>	<b>0</b>	<b>0</b>	<b>515</b>	<b>149</b>	<b>664</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>417</b>	<b>382</b>	<b>0</b>	<b>799</b>	<b>4</b>	<b>146</b>	<b>8</b>	<b>65</b>	<b>223</b>	<b>1689</b>
08:00 AM	0	0	146	42	188	0	0	0	0	0	0	91	93	0	184	0	65	1	17	83	455
08:15 AM	0	0	116	30	146	1	0	0	0	1	0	89	100	0	189	1	41	0	23	65	401
08:30 AM	0	0	109	36	145	0	0	0	0	0	0	73	80	0	153	1	36	0	8	45	343
08:45 AM	0	0	109	38	147	0	0	0	0	0	0	73	101	0	174	1	43	0	21	65	386
<b>Total</b>	<b>0</b>	<b>0</b>	<b>480</b>	<b>146</b>	<b>626</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>326</b>	<b>374</b>	<b>0</b>	<b>700</b>	<b>3</b>	<b>185</b>	<b>1</b>	<b>69</b>	<b>258</b>	<b>1585</b>
*** BREAK ***																					
11:00 AM	0	0	104	33	137	5	0	0	0	5	0	57	60	0	117	0	23	0	14	37	296
11:15 AM	0	0	98	42	140	0	0	0	0	0	0	64	89	0	153	0	21	0	6	27	320
11:30 AM	0	0	105	40	145	1	0	0	0	1	0	59	85	0	144	0	20	0	14	34	324
11:45 AM	0	0	127	49	176	0	0	0	0	0	0	63	92	0	155	1	28	1	18	48	379
<b>Total</b>	<b>0</b>	<b>0</b>	<b>434</b>	<b>164</b>	<b>598</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>243</b>	<b>326</b>	<b>0</b>	<b>569</b>	<b>1</b>	<b>92</b>	<b>1</b>	<b>52</b>	<b>146</b>	<b>1319</b>
12:00 PM	0	0	145	63	208	0	0	0	0	0	0	70	89	0	159	0	27	0	19	46	413
12:15 PM	0	0	130	46	176	0	0	0	0	0	0	74	91	0	165	0	33	0	11	44	385
12:30 PM	0	0	114	42	156	4	0	0	0	4	0	76	96	0	172	1	22	0	17	40	372
12:45 PM	0	0	134	56	190	0	0	0	0	0	0	94	107	0	201	0	34	0	22	56	447
<b>Total</b>	<b>0</b>	<b>0</b>	<b>523</b>	<b>207</b>	<b>730</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>314</b>	<b>383</b>	<b>0</b>	<b>697</b>	<b>1</b>	<b>116</b>	<b>0</b>	<b>69</b>	<b>186</b>	<b>1617</b>
*** BREAK ***																					
03:00 PM	0	0	108	77	185	0	0	0	0	0	0	124	84	0	208	3	36	0	9	48	441
03:15 PM	0	0	99	58	157	2	0	0	0	2	0	84	81	0	165	0	33	1	9	43	367
03:30 PM	0	0	111	83	194	0	0	0	0	0	0	124	81	0	205	0	16	1	14	31	430
03:45 PM	0	0	144	48	192	2	0	0	0	2	0	88	104	0	192	2	35	0	15	52	438
<b>Total</b>	<b>0</b>	<b>0</b>	<b>462</b>	<b>266</b>	<b>728</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>420</b>	<b>350</b>	<b>0</b>	<b>770</b>	<b>5</b>	<b>120</b>	<b>2</b>	<b>47</b>	<b>174</b>	<b>1676</b>
04:00 PM	0	0	146	57	203	1	0	0	0	1	0	158	131	0	289	1	22	0	6	29	522
04:15 PM	0	0	147	59	206	0	0	0	0	0	0	104	118	0	222	0	26	0	18	44	472
04:30 PM	0	0	158	64	222	0	0	0	0	0	0	161	129	0	290	0	48	0	13	61	573
04:45 PM	0	0	166	52	218	0	0	0	0	0	0	109	163	0	272	0	46	1	19	66	556
<b>Total</b>	<b>0</b>	<b>0</b>	<b>617</b>	<b>232</b>	<b>849</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>532</b>	<b>541</b>	<b>0</b>	<b>1073</b>	<b>1</b>	<b>142</b>	<b>1</b>	<b>56</b>	<b>200</b>	<b>2123</b>
05:00 PM	0	0	195	54	249	1	0	0	0	1	0	100	153	0	253	0	42	1	31	74	577
05:15 PM	0	0	203	49	252	0	0	0	0	0	0	96	171	0	267	1	40	0	24	65	584
05:30 PM	0	0	176	40	216	1	0	0	0	1	0	107	160	0	267	0	44	0	18	62	546
05:45 PM	0	0	182	36	218	4	0	0	0	4	0	85	113	0	198	1	44	0	13	58	478
<b>Total</b>	<b>0</b>	<b>0</b>	<b>756</b>	<b>179</b>	<b>935</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>388</b>	<b>597</b>	<b>0</b>	<b>985</b>	<b>2</b>	<b>170</b>	<b>1</b>	<b>86</b>	<b>259</b>	<b>2185</b>
<b>Grand Total</b>	<b>0</b>	<b>0</b>	<b>4099</b>	<b>1455</b>	<b>5554</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29</b>	<b>0</b>	<b>2951</b>	<b>3123</b>	<b>0</b>	<b>6074</b>	<b>25</b>	<b>1059</b>	<b>15</b>	<b>490</b>	<b>1589</b>	<b>13246</b>
Apprch %	0	0	73.8	26.2		100	0	0	0		0	48.6	51.4	0		1.6	66.6	0.9	30.8		
Total %	0	0	30.9	11	41.9	0.2	0	0	0	0.2	0	22.3	23.6	0	45.9	0.2	8	0.1	3.7	12	
Cars+	0	0	4017	1415	5432	7	0	0	0	7	0	2889	3042	0	5931	8	1044	14	478	1544	12914
% Cars+	0	0	98	97.3	97.8	24.1	0	0	0	24.1	0	97.9	97.4	0	97.6	32	98.6	93.3	97.6	97.2	97.5
Heavy Vehicles	0	0	82	40	122	22	0	0	0	22	0	62	81	0	143	17	15	1	12	45	332
% Heavy Vehicles	0	0	2	2.7	2.2	75.9	0	0	0	75.9	0	2.1	2.6	0	2.4	68	1.4	6.7	2.4	2.8	2.5

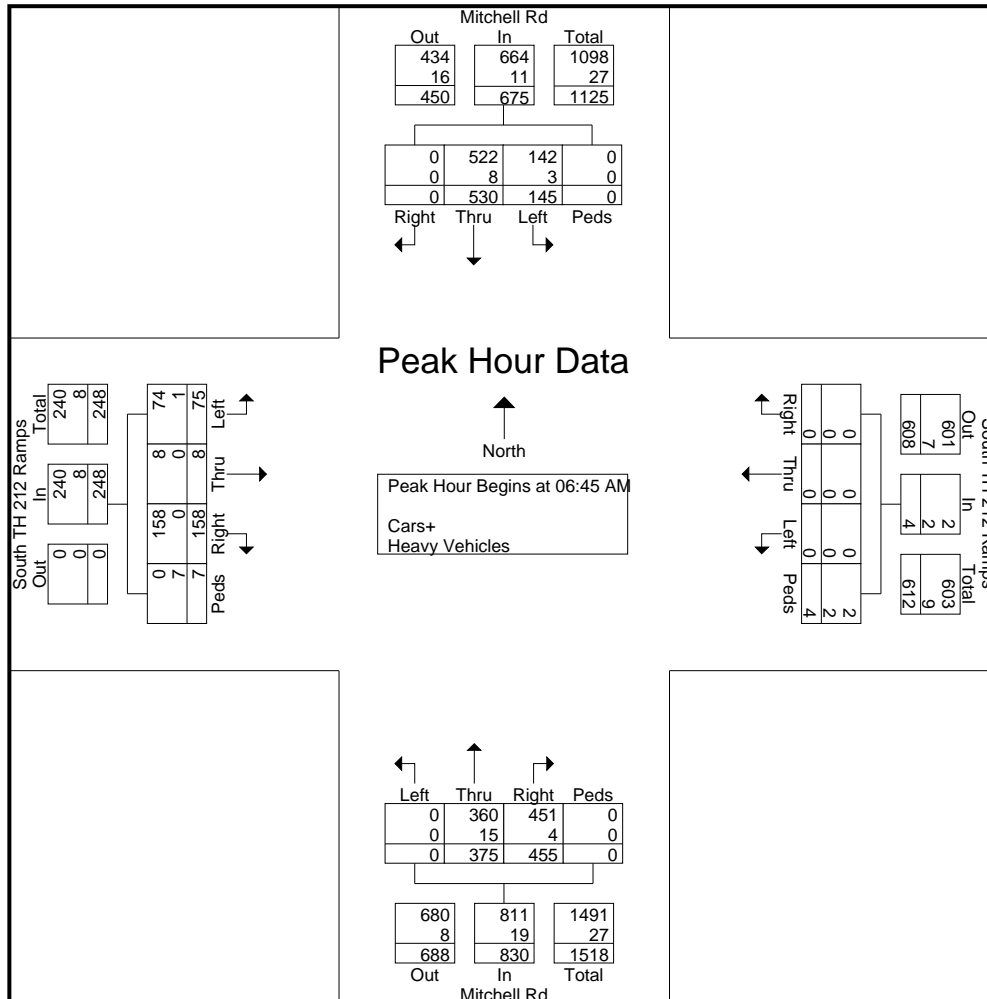
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File Name : Mitchell Rd and South TH 212 Ramps  
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Start Date : 6/11/2013  
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Start Time	Mitchell Rd Southbound					South TH 212 Ramps Westbound					Mitchell Rd Northbound					South TH 212 Ramps Eastbound					Int. Total
	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 06:45 AM																					
06:45 AM	0	0	115	26	141	1	0	0	0	1	0	103	74	0	177	4	36	0	25	65	384
07:00 AM	0	0	116	41	157	3	0	0	0	3	0	120	69	0	189	1	40	1	9	51	400
07:15 AM	0	0	151	43	194	0	0	0	0	0	0	121	107	0	228	2	47	5	24	78	500
07:30 AM	0	0	148	35	183	0	0	0	0	0	0	111	125	0	236	0	35	2	17	54	473
Total Volume	0	0	530	145	675	4	0	0	0	4	0	455	375	0	830	7	158	8	75	248	1757
% App. Total	0	0	78.5	21.5		100	0	0	0		0	54.8	45.2	0		2.8	63.7	3.2	30.2		
PHF	.000	.000	.877	.843	.870	.333	.000	.000	.000	.333	.000	.940	.750	.000	.879	.438	.840	.400	.750	.795	.879
Cars+	0	0	522	142	664	2	0	0	0	2	0	451	360	0	811	0	158	8	74	240	1717
% Cars+	0	0	98.5	97.9	98.4	50.0	0	0	0	50.0	0	99.1	96.0	0	97.7	0	100	100	98.7	96.8	97.7
Heavy Vehicles	0	0	8	3	11	2	0	0	0	2	0	4	15	0	19	7	0	0	1	8	40
% Heavy Vehicles	0	0	1.5	2.1	1.6	50.0	0	0	0	50.0	0	0.9	4.0	0	2.3	100	0	0	1.3	3.2	2.3



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Start Time	Mitchell Rd Southbound					South TH 212 Ramps Westbound					Mitchell Rd Northbound					South TH 212 Ramps Eastbound					Int. Total
	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	
Peak Hour Analysis From 11:00 AM to 12:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:00 PM																					
12:00 PM	0	0	145	63	208	0	0	0	0	0	0	70	89	0	159	0	27	0	19	46	413
12:15 PM	0	0	130	46	176	0	0	0	0	0	0	74	91	0	165	0	33	0	11	44	385
12:30 PM	0	0	114	42	156	4	0	0	0	4	0	76	96	0	172	1	22	0	17	40	372
12:45 PM	0	0	134	56	190	0	0	0	0	0	0	94	107	0	201	0	34	0	22	56	447
Total Volume	0	0	523	207	730	4	0	0	0	4	0	314	383	0	697	1	116	0	69	186	1617
% App. Total	0	0	71.6	28.4		100	0	0	0		0	45.1	54.9	0		0.5	62.4	0	37.1		
PHF	.000	.000	.902	.821	.877	.250	.000	.000	.000	.250	.000	.835	.895	.000	.867	.250	.853	.000	.784	.830	.904
Cars+	0	0	505	203	708	4	0	0	0	4	0	295	371	0	666	0	114	0	66	180	1558
% Cars+	0	0	96.6	98.1	97.0	100	0	0	0	100	0	93.9	96.9	0	95.6	0	98.3	0	95.7	96.8	96.4
Heavy Vehicles	0	0	18	4	22	0	0	0	0	0	0	19	12	0	31	1	2	0	3	6	59
% Heavy Vehicles	0	0	3.4	1.9	3.0	0	0	0	0	0	0	6.1	3.1	0	4.4	100	1.7	0	4.3	3.2	3.6

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Start Time	Mitchell Rd Southbound					South TH 212 Ramps Westbound					Mitchell Rd Northbound					South TH 212 Ramps Eastbound					Int. Total
	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	Peds	Right	Thru	Left	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	0	0	158	64	222	0	0	0	0	0	0	161	129	0	290	0	48	0	13	61	573
04:45 PM	0	0	166	52	218	0	0	0	0	0	0	109	163	0	272	0	46	1	19	66	556
05:00 PM	0	0	195	54	249	1	0	0	0	1	0	100	153	0	253	0	42	1	31	74	577
05:15 PM	0	0	203	49	252	0	0	0	0	0	0	96	171	0	267	1	40	0	24	65	584
Total Volume	0	0	722	219	941	1	0	0	0	1	0	466	616	0	1082	1	176	2	87	266	2290
% App. Total	0	0	76.7	23.3		100	0	0	0		0	43.1	56.9	0		0.4	66.2	0.8	32.7		
PHF	.000	.000	.889	.855	.934	.250	.000	.000	.000	.250	.000	.724	.901	.000	.933	.250	.917	.500	.702	.899	.980
Cars+	0	0	719	212	931	0	0	0	0	0	0	462	611	0	1073	0	175	1	87	263	2267
% Cars+	0	0	99.6	96.8	98.9	0	0	0	0	0	0	99.1	99.2	0	99.2	0	99.4	50.0	100	98.9	99.0
Heavy Vehicles	0	0	3	7	10	1	0	0	0	1	0	4	5	0	9	1	1	1	0	3	23
% Heavy Vehicles	0	0	0.4	3.2	1.1	100	0	0	0	100	0	0.9	0.8	0	0.8	100	0.6	50.0	0	1.1	1.0