

SRF Consulting

TH-212 at CSAH-33 NORWOOD
 Ref.Pt.: 131.197
 SRF Consulting Group/MnDOT
 TURN MOVEMENT COUNT

File Name : TH 212 and CR 33
 Site Code :
 Start Date : 4/7/2015
 Page No : 1

Groups Printed- Cars+ - Heavy Vehicles

Start Time	CSAH-33 / N Reform St Southbound				TH-212 Westbound				CSAH-33 / N Reform St Northbound				TH-212 Eastbound				Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	
06:00	16	1	1	0	0	24	3	0	0	18	4	0	23	94	1	0	185
06:15	18	5	3	0	0	28	4	0	1	19	7	0	38	123	2	0	248
06:30	13	6	3	0	0	43	10	0	0	22	4	0	61	103	3	0	268
06:45	18	12	7	0	1	41	7	0	1	21	7	0	55	111	1	0	282
Total	65	24	14	0	1	136	24	0	2	80	22	0	177	431	7	0	983
07:00	19	12	3	0	0	64	9	0	2	28	5	0	36	132	4	0	314
07:15	17	4	11	0	1	65	14	0	2	24	4	0	65	114	2	0	323
07:30	37	11	8	0	2	82	14	0	3	45	3	0	69	123	3	0	400
07:45	33	15	6	0	0	75	22	0	2	55	3	0	70	101	2	0	384
Total	106	42	28	0	3	286	59	0	9	152	15	0	240	470	11	0	1421
08:00	23	21	10	0	1	41	15	0	0	17	3	0	38	78	0	0	247
08:15	14	14	4	0	3	46	16	0	0	12	2	0	31	88	2	0	232
08:30	13	12	5	0	2	56	6	0	2	18	1	0	36	59	1	0	211
08:45	12	7	4	0	1	63	13	0	1	9	3	0	17	52	1	0	183
Total	62	54	23	0	7	206	50	0	3	56	9	0	122	277	4	0	873
*** BREAK ***																	
11:00	10	7	6	0	1	48	21	0	0	10	1	0	14	48	2	0	168
11:15	9	7	6	0	2	43	6	0	1	11	2	0	17	52	0	0	156
11:30	19	9	3	0	0	36	9	0	4	6	5	0	13	50	1	0	155
11:45	15	11	2	0	1	53	6	0	2	8	5	0	18	54	1	0	176
Total	53	34	17	0	4	180	42	0	7	35	13	0	62	204	4	0	655
12:00	9	7	1	0	0	54	17	0	0	5	1	0	23	62	2	0	181
12:15	13	10	12	0	0	44	10	0	0	8	4	0	17	75	1	0	194
12:30	21	8	7	0	2	73	16	0	1	14	1	0	27	59	0	0	229
12:45	10	13	5	0	1	52	11	0	1	10	5	0	17	45	1	0	171
Total	53	38	25	0	3	223	54	0	2	37	11	0	84	241	4	0	775
*** BREAK ***																	
15:00	16	17	8	0	3	92	24	0	4	18	3	0	20	63	1	0	269
15:15	18	18	8	0	3	88	23	0	1	13	3	0	24	56	0	0	255
15:30	11	26	4	0	3	121	20	0	1	19	7	0	39	63	3	0	317
15:45	21	21	7	0	1	92	13	0	3	15	6	0	42	57	3	0	281
Total	66	82	27	0	10	393	80	0	9	65	19	0	125	239	7	0	1122
16:00	19	16	11	0	2	109	35	0	3	17	1	0	43	70	3	0	329
16:15	23	27	9	0	4	115	23	0	1	10	4	0	52	76	2	0	346
16:30	16	16	9	0	5	138	22	0	2	12	8	0	38	59	2	0	327
16:45	18	33	7	0	4	157	21	0	4	15	1	0	29	78	0	0	367
Total	76	92	36	0	15	519	101	0	10	54	14	0	162	283	7	0	1369
17:00	15	23	11	0	2	136	27	0	7	17	3	0	39	80	3	0	363
17:15	21	19	15	0	2	130	23	0	0	18	1	0	49	79	0	0	357
17:30	11	21	10	0	5	125	19	0	6	18	2	0	38	70	6	0	331
17:45	15	18	9	0	4	97	11	0	1	13	3	0	27	58	1	0	257
Total	62	81	45	0	13	488	80	0	14	66	9	0	153	287	10	0	1308
Grand Total	543	447	215	0	56	2431	490	0	56	545	112	0	1125	2432	54	0	8506
Apprch %	45.1	37.1	17.8	0	1.9	81.7	16.5	0	7.9	76.4	15.7	0	31.2	67.3	1.5	0	
Total %	6.4	5.3	2.5	0	0.7	28.6	5.8	0	0.7	6.4	1.3	0	13.2	28.6	0.6	0	
Cars+	476	434	177	0	55	2091	424	0	51	527	109	0	1052	2121	52	0	7569
% Cars+	87.7	97.1	82.3	0	98.2	86	86.5	0	91.1	96.7	97.3	0	93.5	87.2	96.3	0	89
Heavy Vehicles	67	13	38	0	1	340	66	0	5	18	3	0	73	311	2	0	937
% Heavy Vehicles	12.3	2.9	17.7	0	1.8	14	13.5	0	8.9	3.3	2.7	0	6.5	12.8	3.7	0	11

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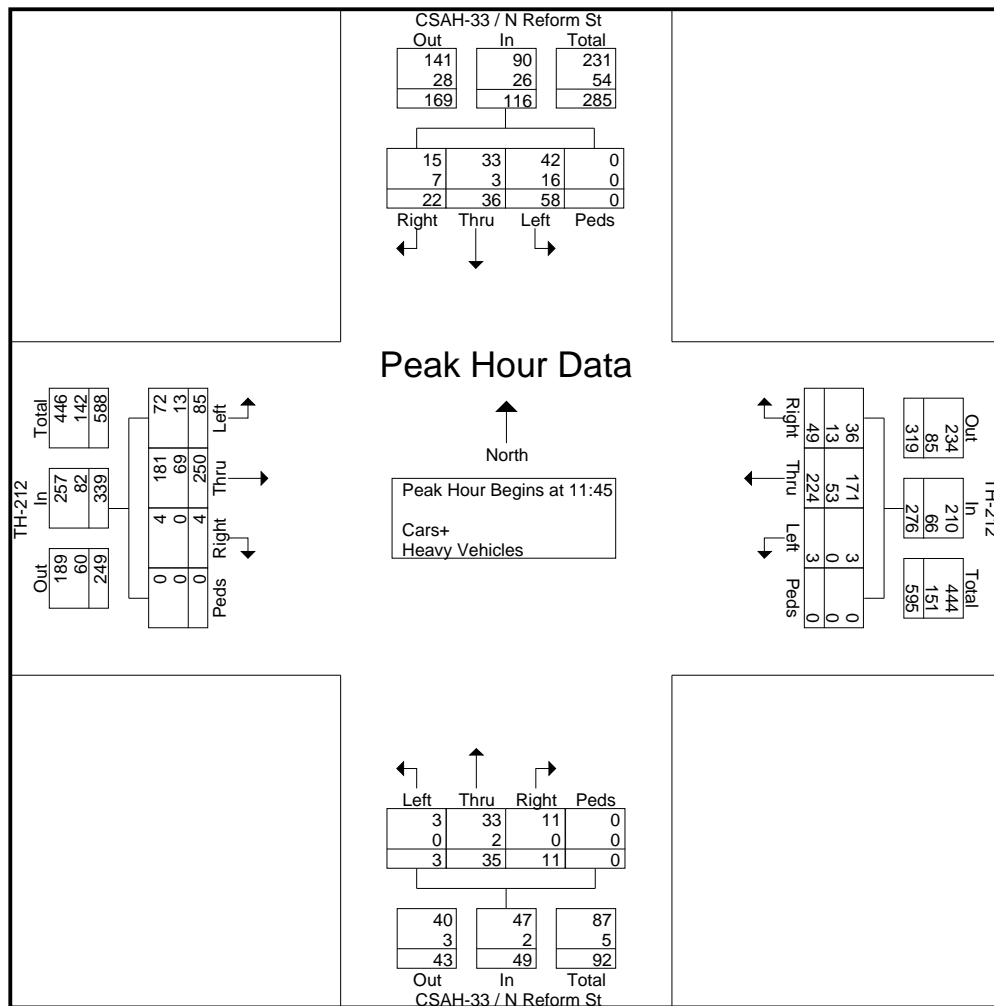
Start Time	CSAH-33 / N Reform St Southbound					TH-212 Westbound					CSAH-33 / N Reform St Northbound					TH-212 Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00																					
07:00	19	12	3	0	34	0	64	9	0	73	2	28	5	0	35	36	132	4	0	172	314
07:15	17	4	11	0	32	1	65	14	0	80	2	24	4	0	30	65	114	2	0	181	323
07:30	37	11	8	0	56	2	82	14	0	98	3	45	3	0	51	69	123	3	0	195	400
07:45	33	15	6	0	54	0	75	22	0	97	2	55	3	0	60	70	101	2	0	173	384
Total Volume	106	42	28	0	176	3	286	59	0	348	9	152	15	0	176	240	470	11	0	721	1421
% App. Total	60.2	23.9	15.9	0		0.9	82.2	17	0		5.1	86.4	8.5	0		33.3	65.2	1.5	0		
PHF	.716	.700	.636	.000	.786	.375	.872	.670	.000	.888	.750	.691	.750	.000	.733	.857	.890	.688	.000	.924	.888
Cars+	99	39	26	0	164	3	237	52	0	292	7	152	14	0	173	230	436	10	0	676	1305
% Cars+	93.4	92.9	92.9	0	93.2	100	82.9	88.1	0	83.9	77.8	100	93.3	0	98.3	95.8	92.8	90.9	0	93.8	91.8
Heavy Vehicles																					
% Heavy Vehicles	6.6	7.1	7.1	0	6.8	0	17.1	11.9	0	16.1	22.2	0	6.7	0	1.7	4.2	7.2	9.1	0	6.2	8.2

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Start Time	CSAH-33 / N Reform St Southbound					TH-212 Westbound					CSAH-33 / N Reform St Northbound					TH-212 Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 11:00 to 12:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:45																					
11:45	15	11	2	0	28	1	53	6	0	60	2	8	5	0	15	18	54	1	0	73	176
12:00	9	7	1	0	17	0	54	17	0	71	0	5	1	0	6	23	62	2	0	87	181
12:15	13	10	12	0	35	0	44	10	0	54	0	8	4	0	12	17	75	1	0	93	194
12:30	21	8	7	0	36	2	73	16	0	91	1	14	1	0	16	27	59	0	0	86	229
Total Volume	58	36	22	0	116	3	224	49	0	276	3	35	11	0	49	85	250	4	0	339	780
% App. Total	50	31	19	0		1.1	81.2	17.8	0		6.1	71.4	22.4	0		25.1	73.7	1.2	0		
PHF	.690	.818	.458	.000	.806	.375	.767	.721	.000	.758	.375	.625	.550	.000	.766	.787	.833	.500	.000	.911	.852
Cars+	42	33	15	0	90	3	171	36	0	210	3	33	11	0	47	72	181	4	0	257	604
% Cars+	72.4	91.7	68.2	0	77.6	100	76.3	73.5	0	76.1	100	94.3	100	0	95.9	84.7	72.4	100	0	75.8	77.4
Heavy Vehicles																					
% Heavy Vehicles	27.6	8.3	31.8	0	22.4	0	23.7	26.5	0	23.9	0	5.7	0	0	4.1	15.3	27.6	0	0	24.2	22.6



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Start Time	CSAH-33 / N Reform St Southbound					TH-212 Westbound					CSAH-33 / N Reform St Northbound					TH-212 Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 15:00 to 17:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:45																					
16:45	18	33	7	0	58	4	157	21	0	182	4	15	1	0	20	29	78	0	0	107	367
17:00	15	23	11	0	49	2	136	27	0	165	7	17	3	0	27	39	80	3	0	122	363
17:15	21	19	15	0	55	2	130	23	0	155	0	18	1	0	19	49	79	0	0	128	357
17:30	11	21	10	0	42	5	125	19	0	149	6	18	2	0	26	38	70	6	0	114	331
Total Volume	65	96	43	0	204	13	548	90	0	651	17	68	7	0	92	155	307	9	0	471	1418
% App. Total	31.9	47.1	21.1	0		2	84.2	13.8	0		18.5	73.9	7.6	0		32.9	65.2	1.9	0		
PHF	.774	.727	.717	.000	.879	.650	.873	.833	.000	.894	.607	.944	.583	.000	.852	.791	.959	.375	.000	.920	.966
Cars+	60	95	40	0	195	13	523	88	0	624	16	68	7	0	91	144	269	9	0	422	1332
% Cars+	92.3	99.0	93.0	0	95.6	100	95.4	97.8	0	95.9	94.1	100	100	0	98.9	92.9	87.6	100	0	89.6	93.9
Heavy Vehicles																					
% Heavy Vehicles	7.7	1.0	7.0	0	4.4	0	4.6	2.2	0	4.1	5.9	0	0	1.1	7.1	12.4	0	0	10.4	6.1	

