



Spack Solutions

43 Main Street SE, Suite 136
Minneapolis, MN 55414

TH-51 at CSAH-15 (CR Rd E) East Ramp
City: Arden Hills
Data By: Spack Solutions
TURN MOVEMENT COUNT

File Name : 06_TH-51-at-CSAH-15-East-Ramp
Site Code : 00000000
Start Date : 2/24/2021
Page No : 1

Groups Printed- Vehicles - Trucks

Start Time	Connelly Ave Southbound				CSAH-15 (CR Rd E) Westbound				North bound TH-51 Ramp Northbound				CSAH-15 (CR Rd E) Eastbound				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
06:00 AM	1	3	2	0	0	15	1	0	6	2	4	0	0	15	3	0	52
06:15 AM	2	5	3	0	4	19	4	0	9	4	2	0	6	20	8	0	86
06:30 AM	3	3	4	0	5	27	4	0	6	2	6	0	4	22	7	0	93
06:45 AM	9	3	7	0	14	41	12	1	18	1	4	1	12	38	7	0	168
Total	15	14	16	0	23	102	21	1	39	9	16	1	22	95	25	0	399
07:00 AM	7	5	5	0	7	51	8	0	7	3	7	0	6	32	7	0	145
07:15 AM	4	8	16	0	9	54	7	0	16	3	7	0	12	34	10	0	180
07:30 AM	7	3	10	0	10	57	9	0	14	1	18	0	10	54	8	0	201
07:45 AM	7	2	5	0	8	70	19	0	20	2	13	0	9	70	6	0	231
Total	25	18	36	0	34	232	43	0	57	9	45	0	37	190	31	0	757
08:00 AM	10	4	6	0	14	75	11	0	13	2	13	0	6	55	12	0	221
08:15 AM	9	5	9	0	16	79	16	0	16	2	7	0	5	58	11	0	233
08:30 AM	6	6	13	0	11	60	8	0	19	3	9	0	10	64	7	0	216
08:45 AM	10	1	9	1	9	75	14	0	23	3	26	0	15	72	11	0	269
Total	35	16	37	1	50	289	49	0	71	10	55	0	36	249	41	0	939
09:00 AM	10	5	7	0	13	69	20	0	21	2	11	0	8	77	9	0	252
09:15 AM	11	1	11	0	15	61	21	0	24	4	11	0	10	41	13	0	223
09:30 AM	7	5	16	0	18	59	13	0	17	6	9	2	4	49	12	0	217
09:45 AM	8	3	9	0	8	58	8	0	15	2	9	0	9	58	7	0	194
Total	36	14	43	0	54	247	62	0	77	14	40	2	31	225	41	0	886
10:00 AM	4	3	7	0	10	56	5	0	25	8	8	0	10	63	6	0	205
10:15 AM	6	5	9	0	14	68	7	0	18	6	7	0	6	52	5	0	203
10:30 AM	8	2	7	0	7	68	10	0	27	4	9	0	7	61	6	0	216
10:45 AM	4	2	12	0	13	78	5	0	26	4	11	0	8	43	4	0	210
Total	22	12	35	0	44	270	27	0	96	22	35	0	31	219	21	0	834
11:00 AM	10	7	4	0	17	93	8	0	31	7	7	0	5	56	8	0	253
11:15 AM	10	5	13	1	13	82	22	0	28	7	10	0	4	48	4	0	247
11:30 AM	11	11	10	5	22	91	16	4	27	4	10	0	7	56	9	0	283
11:45 AM	18	8	15	1	16	90	23	0	46	8	7	0	7	63	10	0	312
Total	49	31	42	7	68	356	69	4	132	26	34	0	23	223	31	0	1095
12:00 PM	16	9	18	1	22	91	17	0	26	5	17	1	9	66	7	0	305
12:15 PM	10	8	12	0	26	92	9	0	34	6	19	0	6	70	10	0	302
12:30 PM	22	10	20	0	17	82	13	0	43	8	12	0	7	65	10	0	309
12:45 PM	11	7	14	0	17	75	14	0	35	12	8	0	7	68	5	0	273
Total	59	34	64	1	82	340	53	0	138	31	56	1	29	269	32	0	1189
01:00 PM	10	13	11	0	13	65	12	0	42	8	13	0	7	53	7	0	254
01:15 PM	9	4	12	0	17	78	17	0	31	7	11	0	11	59	3	0	259
01:30 PM	9	4	5	0	10	94	11	0	35	8	6	0	9	70	11	0	272
01:45 PM	7	7	9	0	10	83	12	0	42	6	12	0	14	73	12	0	287
Total	35	28	37	0	50	320	52	0	150	29	42	0	41	255	33	0	1072
02:00 PM	9	6	12	0	14	86	23	0	34	6	11	0	7	66	5	0	279
02:15 PM	7	5	14	0	12	92	20	0	33	6	10	0	12	49	9	0	269



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File Name : 06_TH-51-at-CSAH-15-East-Ramp
Site Code : 00000000
Start Date : 2/24/2021
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Groups Printed- Vehicles - Trucks

Start Time	Connelly Ave Southbound				CSAH-15 (CR Rd E) Westbound				North bound TH-51 Ramp Northbound				CSAH-15 (CR Rd E) Eastbound				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
02:30 PM	12	6	9	0	10	82	18	0	36	9	13	0	9	75	9	0	288
02:45 PM	5	5	11	0	11	91	13	0	34	2	18	1	15	108	11	0	325
Total	33	22	46	0	47	351	74	0	137	23	52	1	43	298	34	0	1161
03:00 PM	14	4	10	0	11	90	19	0	43	10	14	0	14	81	9	0	319
03:15 PM	7	6	6	0	13	89	20	0	55	6	16	0	12	103	7	0	340
03:30 PM	3	7	11	0	12	114	16	0	41	6	17	0	8	92	14	0	341
03:45 PM	10	5	13	1	15	89	20	0	35	9	22	0	12	104	12	0	347
Total	34	22	40	1	51	382	75	0	174	31	69	0	46	380	42	0	1347
04:00 PM	11	7	8	1	8	114	52	0	49	3	17	0	11	84	19	0	384
04:15 PM	7	4	7	7	8	119	17	0	45	3	15	0	13	90	8	0	343
04:30 PM	12	5	9	3	11	115	28	0	46	4	20	0	10	92	9	0	364
04:45 PM	7	5	11	2	15	120	18	0	47	7	19	0	8	96	12	0	367
Total	37	21	35	13	42	468	115	0	187	17	71	0	42	362	48	0	1458
05:00 PM	13	4	11	2	14	109	31	0	45	9	20	0	10	67	8	0	343
05:15 PM	9	5	10	2	14	84	23	0	45	6	19	3	14	66	16	0	316
05:30 PM	5	6	10	0	17	117	23	0	45	7	26	0	6	91	10	0	363
05:45 PM	13	8	13	0	9	78	20	0	50	10	15	0	13	73	14	0	316
Total	40	23	44	4	54	388	97	0	185	32	80	3	43	297	48	0	1338
06:00 PM	6	14	12	1	14	100	24	0	31	5	16	0	7	60	22	0	312
06:15 PM	6	7	11	0	11	90	15	0	25	5	15	0	7	48	12	0	252
06:30 PM	10	7	4	0	10	69	13	0	23	16	20	0	7	40	20	0	239
06:45 PM	7	7	12	0	9	78	9	0	35	2	11	0	9	44	7	0	230
Total	29	35	39	1	44	337	61	0	114	28	62	0	30	192	61	0	1033
Grand Total	449	290	514	28	643	4082	798	5	1557	281	657	8	454	3254	488	0	13508
Apprch %	35.1	22.6	40.1	2.2	11.6	73.8	14.4	0.1	62.2	11.2	26.2	0.3	10.8	77.6	11.6	0	
Total %	3.3	2.1	3.8	0.2	4.8	30.2	5.9	0	11.5	2.1	4.9	0.1	3.4	24.1	3.6	0	
Vehicles	441	283	510	28	641	3977	755	5	1514	278	646	7	442	3163	481	0	13171
% Vehicles	98.2	97.6	99.2	100	99.7	97.4	94.6	100	97.2	98.9	98.3	87.5	97.4	97.2	98.6	0	97.5
Trucks	8	7	4	0	2	105	43	0	43	3	11	1	12	91	7	0	337
% Trucks	1.8	2.4	0.8	0	0.3	2.6	5.4	0	2.8	1.1	1.7	12.5	2.6	2.8	1.4	0	2.5



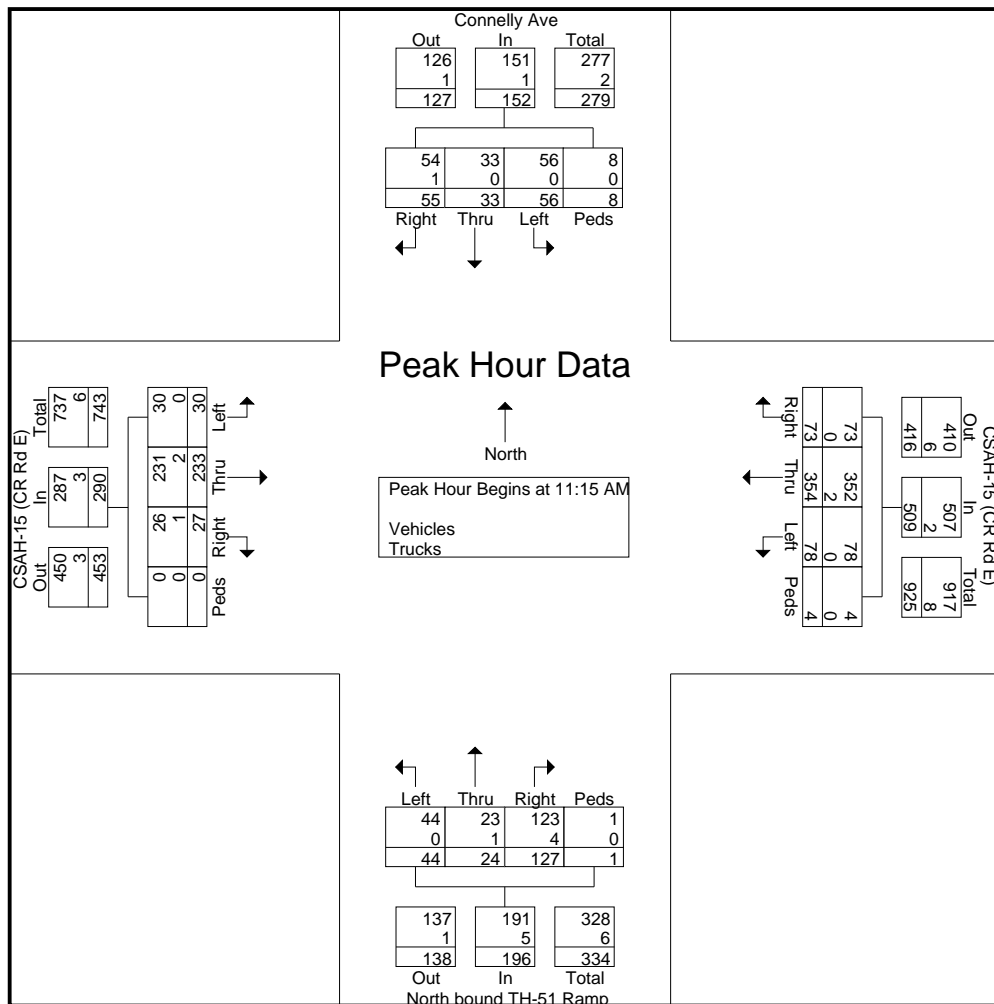
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Start Time	Connelly Ave Southbound					CSAH-15 (CR Rd E) Westbound					North bound TH-51 Ramp Northbound					CSAH-15 (CR Rd E) Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 12:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:15 AM																					
11:15 AM	10	5	13	1	29	13	82	22	0	117	28	7	10	0	45	4	48	4	0	56	247
11:30 AM	11	11	10	5	37	22	91	16	4	133	27	4	10	0	41	7	56	9	0	72	283
11:45 AM	18	8	15	1	42	16	90	23	0	129	46	8	7	0	61	7	63	10	0	80	312
12:00 PM	16	9	18	1	44	22	91	17	0	130	26	5	17	1	49	9	66	7	0	82	305
Total Volume	55	33	56	8	152	73	354	78	4	509	127	24	44	1	196	27	233	30	0	290	1147
% App. Total	36.2	21.7	36.8	5.3		14.3	69.5	15.3	0.8		64.8	12.2	22.4	0.5		9.3	80.3	10.3	0		
PHF	.764	.750	.778	.400	.864	.830	.973	.848	.250	.957	.690	.750	.647	.250	.803	.750	.883	.750	.000	.884	.919
Vehicles	54	33	56	8	151	73	352	78	4	507	123	23	44	1	191	26	231	30	0	287	1136
% Vehicles	98.2	100	100	100	99.3	100	99.4	100	100	99.6	96.9	95.8	100	100	97.4	96.3	99.1	100	0	99.0	99.0
Trucks	1	0	0	0	1	0	2	0	0	2	4	1	0	0	5	1	2	0	0	3	11
% Trucks	1.8	0	0	0	0.7	0	0.6	0	0	0.4	3.1	4.2	0	0	2.6	3.7	0.9	0	0	1.0	1.0





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 Page No : 4

Start Time	Connelly Ave Southbound					CSAH-15 (CR Rd E) Westbound					North bound TH-51 Ramp Northbound					CSAH-15 (CR Rd E) Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 12:15 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:00 PM																					
04:00 PM	11	7	8	1	27	8	114	52	0	174	49	3	17	0	69	11	84	19	0	114	384
04:15 PM	7	4	7	7	25	8	119	17	0	144	45	3	15	0	63	13	90	8	0	111	343
04:30 PM	12	5	9	3	29	11	115	28	0	154	46	4	20	0	70	10	92	9	0	111	364
04:45 PM	7	5	11	2	25	15	120	18	0	153	47	7	19	0	73	8	96	12	0	116	367
Total Volume	37	21	35	13	106	42	468	115	0	625	187	17	71	0	275	42	362	48	0	452	1458
% App. Total	34.9	19.8	33	12.3		6.7	74.9	18.4	0		68	6.2	25.8	0		9.3	80.1	10.6	0		
PHF	.771	.750	.795	.464	.914	.700	.975	.553	.000	.898	.954	.607	.888	.000	.942	.808	.943	.632	.000	.974	.949
Vehicles	37	21	35	13	106	42	465	111	0	618	185	17	71	0	273	41	357	47	0	445	1442
% Vehicles	100	100	100	100	100	100	99.4	96.5	0	98.9	98.9	100	100	0	99.3	97.6	98.6	97.9	0	98.5	98.9
Trucks	0	0	0	0	0	0	3	4	0	7	2	0	0	0	2	1	5	1	0	7	16
% Trucks	0	0	0	0	0	0	0.6	3.5	0	1.1	1.1	0	0	0	0.7	2.4	1.4	2.1	0	1.5	1.1