

Technical Memorandum

To: Suzanne Hanrahan, P.E., Dakota County
From: Mike Spack, P.E., P.T.O.E.
Date: January 3, 2013
Re: CSAH 50 Corridor Study – Traffic Data

Per your request, we collected traffic data along CSAH 50 (Kenwood Trail) in Lakeville for the corridor study CH2M Hill is preparing on behalf of the County. The raw data is attached and summaries are provided in this memorandum. All data was collected on Thursday, December 13th while school was in session and the weather was clear. Videos were collected at each intersection from 6:00 a.m. to 8:00 p.m. and the data reduction was done in the office.

Turning Movement Counts

Turning movement counts were conducted with the COUNTkit system from 6:00 a.m. to 8:00 p.m. at the following intersections:

- CSAH 50 & CSAH 60 (185th Street)
- CSAH 50 & 188th Street
- CSAH 50 & 192nd Street/North Driveway (Kenwood Middle School)
- CSAH 50 & Kenwood Middle School South Driveway
- CSAH 50 & Ipava Avenue
- CSAH 50 & Jaguar Avenue
- CSAH 50 & CSAH 9 (Dodd Boulevard)
- Ipava Avenue & 192nd Street

Based on the data collected, the peak hours were from 7:00 to 8:00 a.m. and 4:30 to 5:30 p.m. The turning movement count is contained in fifteen-minute intervals at the end of the memo and the peak hour data is shown in Table 1.

Table 1: CSAH 50 Peak Hour Turning Movement Counts

	From North			From East			From South			From West		
	Rt	Thru	Lt	Rt	Thru	Lt	Rt	Thru	Lt	Rt	Thru	Lt
CSAH 60 – a.m.	51	312	38	161	259	28	24	537	141	187	225	57
CSAH 60 – p.m.	162	575	114	96	306	24	12	412	167	287	390	123
188 th St – a.m.	4	509	-	-	-	-	-	772	14	28	-	14
188 th St – p.m.	10	916	-	-	-	-	-	589	21	15	-	6
192 nd St – a.m.	98	348	89	81	6	3	15	646	16	1	10	34
192 nd St – p.m.	25	800	81	49	12	13	9	528	2	3	10	11
KM S Dvwy – a.m.	19	345	-	-	-	-	-	631	20	34	-	48
KM S Dvwy – p.m.	12	770	-	-	-	-	-	563	28	19	-	7
Ipava Ave – a.m.	15	28	27	47	520	11	36	68	98	87	323	34
Ipava Ave – p.m.	10	61	37	66	537	30	45	51	60	119	657	50
Jaguar Ave – a.m.	16	371	-	-	-	-	-	597	23	64	-	53
Jaguar Ave – p.m.	42	755	-	-	-	-	-	516	53	39	-	31
CSAH 9 – a.m.	27	176	66	70	270	56	93	214	131	71	195	34
CSAH 9 – p.m.	39	279	109	33	281	141	77	266	150	145	360	83

Table 1a: Ipava Avenue & 192nd Street Peak Hour Turning Movement Counts

	From North			From East			From South			From West		
	Rt	Thru	Lt	Rt	Thru	Lt	Rt	Thru	Lt	Rt	Thru	Lt
a.m.	24	318	107	24	23	4	19	200	21	60	39	49
p.m.	27	146	19	100	34	22	6	269	37	22	21	35

Stop Sign Delay Study and Gap Study

Using a Jamar count board, the videos were watched and stop sign delay and gap studies were performed at the following four intersections at the peak hours indicated:

- CSAH 50 & 188th Street: 7:00-8:00 a.m. and 4:30-5:30 p.m.
- CSAH 50 & 192nd Street/North Driveway (Kenwood Middle School): 7:00-8:00 a.m., 1:30-2:30 p.m., and 4:30-5:30 p.m.
- CSAH 50 & Kenwood Middle School South Driveway: 7:00-8:00 a.m. and 1:30-2:30 p.m.
- CSAH 50 & Jaguar Avenue: 7:00-8:00 a.m. and 4:30-5:30 p.m.

The above times represent the peak hours of CSAH 50 and the afternoon peak hour of Kenwood Middle School. The morning peak hour of CSAH 50 and the middle school are the same. The stop sign delay and gap studies were performed based on the *Manual of Transportation Engineering Studies (2nd Edition)*. Complete results of the stop sign delay studies and gap studies can be found at the end of the memo. The average delay and the maximum delay of the approaches to CSAH 50 are shown in Table 2.

Table 2: CSAH 50 Stop Delay Results

	Average Stop Delay	Maximum Stop Delay
Eastbound 188 th St – a.m.	15.5 seconds	142.0 seconds
Eastbound 188 th St – p.m.	22.4 seconds	91.0 seconds
Eastbound KM N Dvwy – a.m.	58.7 seconds	169.0 seconds
Westbound 192 nd St – a.m.	8.5 seconds	63.0 seconds
Eastbound KM N Dvwy – afternoon	23.6 seconds	74.0 seconds
Westbound 192 nd St – afternoon	7.4 seconds	42.0 seconds
Eastbound KM N Dvwy – p.m.	25.2 seconds	77.0 seconds
Westbound 192 nd St – p.m.	20.8 seconds	108.0 seconds
Eastbound KM S Dvwy – a.m.	20.5 seconds	53.0 seconds
Eastbound KM S Dvwy – afternoon	30.4 seconds	105.0 seconds
Eastbound Jaguar Ave – a.m.	32.5 seconds	194.0 seconds
Eastbound Jaguar Ave – p.m.	17.5 seconds	75.0 seconds

Each gap study results in three data tables: gaps in the northbound direction, gaps in the southbound direction, and combined gaps which are gaps occurring in the northbound and southbound directions simultaneously. The southbound gaps are pertinent to those waiting to turn right onto southbound CSAH 50 while the combined gaps are pertinent to those waiting to turn left onto northbound CSAH 50. The number of gaps, the number of combined gaps 8 seconds or greater and the minimum and maximum number of vehicles accommodated by the combined gaps 8 seconds or greater can be found below in Table 3.

Based on the AASHTO *A Policy on Geometric Design of Highways and Streets* (commonly called the Green Book), vehicles turning left onto CSAH 50 to go northbound from one of the study intersections will need a gap in the combined traffic of at least eight seconds to be able to make the turn. The total number of gaps eight seconds long or greater at each intersection is shown in the attached data table.

For vehicles in a queue turning left onto CSAH 50 from Jaguar Avenue, the AASHTO Green Book recommends an additional 2.5 seconds of gap time for each of the vehicles following the leading vehicle. The minimum number of vehicles accommodated by the gaps of 8 seconds or greater is the number of combined 8+ second gaps available. The maximum number of vehicles accommodated by the gaps of 8 seconds or greater is the number of queued vehicles able to make a left turn during each available gap based on 8 seconds for the lead car and 2.5 seconds for each additional car. It is assumed that all the gaps 29 seconds or greater are 30 seconds. The minimum and maximum number of vehicles accommodated by the gaps is shown in Table 3.

Table 3: Gap Study Results

	# of SB Gaps	# of NB Gaps	# of Combined Gaps	# of Combined Gaps ≥ 8 Seconds	Min # of Vehicles Able to Use ≥ 8 Second Gaps	Max # of Vehicles Able to Use ≥ 8 Second Gaps
188 th St – a.m.	220	337	350	60	60	171
188 th St – p.m.	304	354	386	54	54	120
192 nd /KM N Dvwy – a.m.	235	273	315	52	52	125
192 nd /KM N Dvwy – afternoon	284	270	368	90	90	313
192 nd /KM N Dvwy – p.m.	287	296	337	62	62	167
KM S Dvwy – a.m.	231	326	387	97	97	274
KM S Dvwy – afternoon	272	245	362	99	99	320
Jaguar Ave – a.m.	263	290	408	110	110	323
Jaguar Ave – p.m.	325	284	383	65	65	189

In most cases, there are significantly more combined gaps compared to the single direction northbound or southbound gaps. This is expected as combined gaps are typically much shorter allowing for more to occur during the same time frame. For example, if a long southbound gap is occurring but during the same time period two cars travel northbound, the result would be one longer southbound gap and multiple shorter combined gaps.

Turning Movement Counts



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 1 - CSAH 50 & CSAH 60 (only through 530pm)

Site Code : 22712021

Start Date : 12/13/2012

Page No : 1

CSAH 50 & CSAH 60
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					CSAH 60 From East					CSAH 50 From South					CSAH 60 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
06:00 AM	3	19	3	0	25	21	24	1	0	46	2	106	11	0	119	8	20	5	1	34	224
06:15 AM	13	35	2	0	50	21	36	0	0	57	0	98	25	0	123	12	20	14	0	46	276
06:30 AM	8	59	9	0	76	29	49	0	0	78	3	121	34	0	158	27	41	7	0	75	387
06:45 AM	5	52	10	0	67	27	68	3	0	98	2	114	39	0	155	49	48	6	0	103	423
Total	29	165	24	0	218	98	177	4	0	279	7	439	109	0	555	96	129	32	1	258	1310
07:00 AM	13	93	14	0	120	44	63	15	0	122	3	137	41	0	181	60	69	6	0	135	558
07:15 AM	13	63	8	0	84	50	73	10	0	133	11	157	47	0	215	34	52	23	0	109	541
07:30 AM	16	70	9	0	95	35	58	1	0	94	3	124	32	0	159	37	50	11	0	98	446
07:45 AM	9	86	7	0	102	32	65	2	0	99	7	119	21	0	147	56	54	17	0	127	475
Total	51	312	38	0	401	161	259	28	0	448	24	537	141	0	702	187	225	57	0	469	2020
08:00 AM	14	42	5	0	61	36	54	4	0	94	1	132	40	0	173	23	51	11	1	86	414
08:15 AM	25	53	3	1	82	16	48	1	0	65	3	92	41	1	137	30	45	12	0	87	371
08:30 AM	16	45	10	0	71	22	42	2	0	66	1	104	22	0	127	24	40	6	0	70	334
08:45 AM	12	60	5	0	77	19	30	0	0	49	3	103	18	0	124	29	60	15	0	104	354
Total	67	200	23	1	291	93	174	7	0	274	8	431	121	1	561	106	196	44	1	347	1473
09:00 AM	9	56	20	0	85	19	41	2	0	62	2	95	29	0	126	28	42	15	0	85	358
09:15 AM	12	52	9	0	73	19	41	1	0	61	1	97	40	0	138	29	28	3	0	60	332
09:30 AM	12	42	9	0	63	12	36	1	0	49	4	72	36	0	112	15	43	15	0	73	297
09:45 AM	12	46	9	0	67	22	43	2	0	67	1	72	18	0	91	22	45	45	0	112	337
Total	45	196	47	0	288	72	161	6	0	239	8	336	123	0	467	94	158	78	0	330	1324
10:00 AM	11	46	11	0	68	8	41	2	0	51	1	77	24	0	102	14	32	30	0	76	297
10:15 AM	23	48	4	0	75	25	45	1	0	71	1	81	29	0	111	19	40	24	0	83	340
10:30 AM	21	41	11	0	73	12	33	1	0	46	4	77	24	0	105	28	28	19	0	75	299
10:45 AM	20	54	3	1	78	14	39	8	0	61	2	72	16	0	90	24	29	13	0	66	295
Total	75	189	29	1	294	59	158	12	0	229	8	307	93	0	408	85	129	86	0	300	1231
11:00 AM	36	68	15	0	119	23	42	0	0	65	2	64	28	0	94	26	34	21	0	81	359
11:15 AM	25	69	14	0	108	18	44	1	0	63	4	89	20	0	113	21	43	26	0	90	374
11:30 AM	29	43	12	1	85	21	48	1	0	70	1	82	29	0	112	24	33	16	0	73	340
11:45 AM	24	75	8	0	107	17	32	0	0	49	3	77	27	0	107	38	37	31	0	106	369
Total	114	255	49	1	419	79	166	2	0	247	10	312	104	0	426	109	147	94	0	350	1442
12:00 PM	27	68	12	0	107	14	40	1	0	55	3	77	30	0	110	32	28	22	0	82	354
12:15 PM	36	59	11	0	106	20	43	0	0	63	6	71	24	0	101	32	38	26	0	96	366
12:30 PM	34	91	9	0	134	14	36	3	0	53	5	89	35	0	129	29	29	27	0	85	401



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 1 - CSAH 50 & CSAH 60 (only through 530pm)

Site Code : 22712021

Start Date : 12/13/2012

Page No : 2

CSAH 50 & CSAH 60
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					CSAH 60 From East					CSAH 50 From South					CSAH 60 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
12:45 PM	27	69	20	0	116	22	35	5	0	62	4	86	32	0	122	36	42	23	0	101	401
Total	124	287	52	0	463	70	154	9	0	233	18	323	121	0	462	129	137	98	0	364	1522
01:00 PM	39	82	18	0	139	19	48	1	0	68	3	91	29	0	123	45	46	25	0	116	446
01:15 PM	20	83	14	0	117	20	46	2	0	68	2	79	31	0	112	40	39	19	0	98	395
01:30 PM	34	95	21	0	150	21	33	1	0	55	1	72	29	0	102	39	46	21	0	106	413
01:45 PM	34	96	23	0	153	21	45	8	0	74	6	77	22	0	105	51	53	20	0	124	456
Total	127	356	76	0	559	81	172	12	0	265	12	319	111	0	442	175	184	85	0	444	1710
02:00 PM	31	108	25	0	164	24	50	3	0	77	2	92	29	0	123	44	60	29	0	133	497
02:15 PM	40	108	24	0	172	21	40	4	0	65	4	87	30	0	121	45	63	15	0	123	481
02:30 PM	32	122	14	0	168	18	57	3	0	78	10	85	33	0	128	37	55	37	0	129	503
02:45 PM	35	92	16	0	143	30	47	1	0	78	7	124	51	0	182	44	60	25	1	130	533
Total	138	430	79	0	647	93	194	11	0	298	23	388	143	0	554	170	238	106	1	515	2014
03:00 PM	34	111	23	0	168	26	62	3	0	91	4	119	31	0	154	50	59	29	0	138	551
03:15 PM	33	116	24	0	173	14	62	5	0	81	6	97	47	0	150	48	66	24	0	138	542
03:30 PM	34	118	21	0	173	28	65	4	0	97	1	97	34	0	132	62	77	19	0	158	560
03:45 PM	41	134	29	0	204	21	51	5	0	77	4	118	40	0	162	63	81	22	0	166	609
Total	142	479	97	0	718	89	240	17	0	346	15	431	152	0	598	223	283	94	0	600	2262
04:00 PM	34	147	23	0	204	28	68	4	0	100	2	116	36	0	154	59	86	20	1	166	624
04:15 PM	39	142	28	0	209	31	71	5	0	107	2	132	23	0	157	63	85	26	0	174	647
04:30 PM	48	140	29	0	217	30	82	6	0	118	0	121	34	0	155	64	87	33	0	184	674
04:45 PM	43	141	26	0	210	18	72	7	0	97	6	89	43	0	138	74	103	23	0	200	645
Total	164	570	106	0	840	107	293	22	0	422	10	458	136	0	604	260	361	102	1	724	2590
05:00 PM	36	130	24	0	190	26	88	6	0	120	4	111	52	0	167	79	95	31	0	205	682
05:15 PM	35	164	35	0	234	22	64	5	0	91	2	91	38	0	131	70	105	36	0	211	667
05:30 PM	30	157	38	0	225	21	63	8	0	92	3	106	40	0	149	83	91	22	0	196	662
05:45 PM	45	159	38	0	242	18	54	11	0	83	2	92	25	0	119	86	73	26	0	185	629
Total	146	610	135	0	891	87	269	30	0	386	11	400	155	0	566	318	364	115	0	797	2640
06:00 PM	37	133	34	0	204	14	60	3	0	77	5	93	38	0	136	61	82	22	0	165	582
06:15 PM	35	159	35	0	229	22	65	13	0	100	5	80	26	0	111	74	67	30	0	171	611
06:30 PM	33	149	28	0	210	13	59	11	0	83	1	83	35	0	119	80	66	24	0	170	582
06:45 PM	35	112	36	0	183	11	46	0	0	57	1	71	36	0	108	57	75	22	0	154	502
Total	140	553	133	0	826	60	230	27	0	317	12	327	135	0	474	272	290	98	0	660	2277



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 1 - CSAH 50 & CSAH 60 (only through 530pm)

Site Code : 22712021

Start Date : 12/13/2012

Page No : 3

CSAH 50 & CSAH 60
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					CSAH 60 From East					CSAH 50 From South					CSAH 60 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
07:00 PM	23	94	19	0	136	9	53	3	0	65	0	69	36	0	105	41	50	19	0	110	416
07:15 PM	38	74	19	0	131	14	49	2	0	65	1	59	43	0	103	39	48	12	0	99	398
07:30 PM	24	70	25	0	119	16	45	4	0	65	1	56	27	0	84	43	57	19	0	119	387
07:45 PM	36	64	17	0	117	7	39	4	0	50	8	98	42	0	148	44	58	17	0	119	434
Total	121	302	80	0	503	46	186	13	0	245	10	282	148	0	440	167	213	67	0	447	1635
Grand Total	1483	4904	968	3	7358	1195	2833	200	0	4228	176	5290	1792	1	7259	2391	3054	1156	4	6605	25450
Apprch %	20.2	66.6	13.2	0		28.3	67	4.7	0		2.4	72.9	24.7	0		36.2	46.2	17.5	0.1		
Total %	5.8	19.3	3.8	0	28.9	4.7	11.1	0.8	0	16.6	0.7	20.8	7	0	28.5	9.4	12	4.5	0	26	
Cars	1471	4800	961	2	7234	1187	2778	196	0	4161	173	5176	1769	1	7119	2354	2989	1141	2	6486	25000
% Cars	99.2	97.9	99.3	66.7	98.3	99.3	98.1	98	0	98.4	98.3	97.8	98.7	100	98.1	98.5	97.9	98.7	50	98.2	98.2
Heavy Vehicles	12	104	7	1	124	8	55	4	0	67	3	114	23	0	140	37	65	15	2	119	450
% Heavy Vehicles	0.8	2.1	0.7	33.3	1.7	0.7	1.9	2	0	1.6	1.7	2.2	1.3	0	1.9	1.5	2.1	1.3	50	1.8	1.8



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

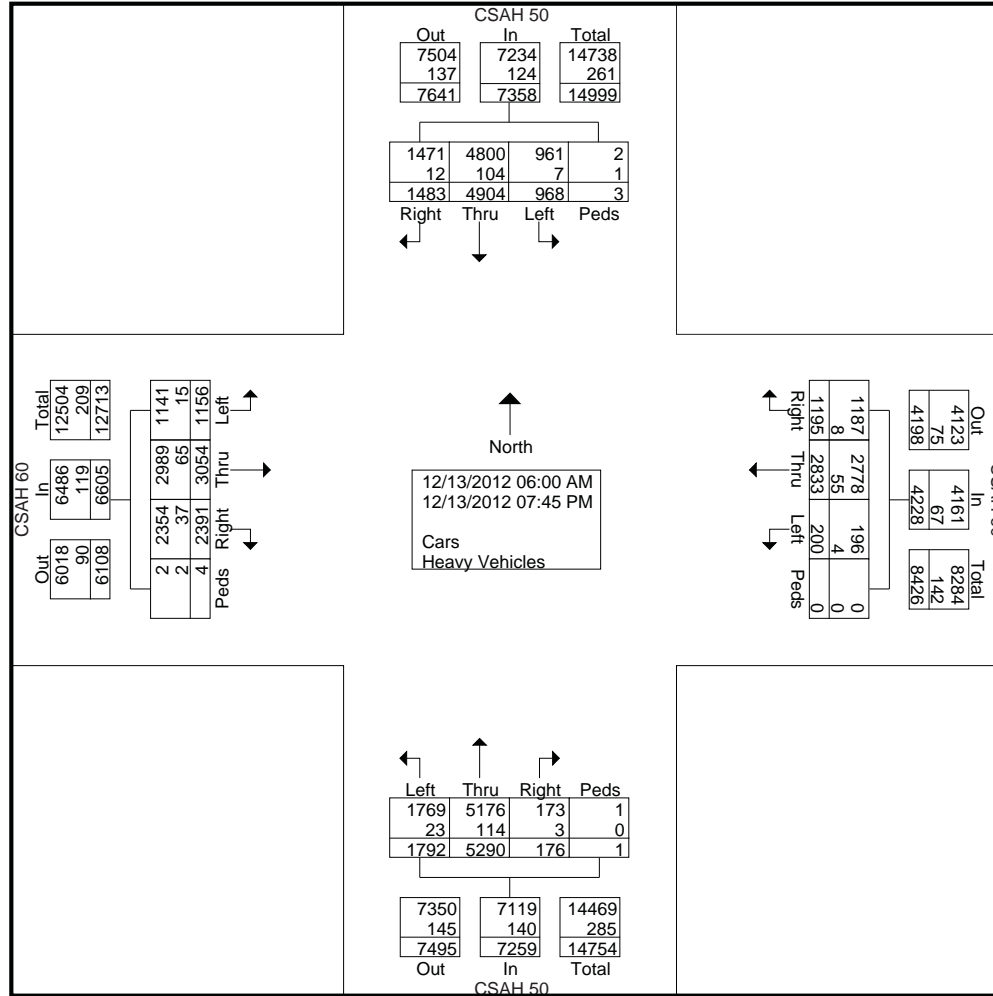
File Name : 1 - CSAH 50 & CSAH 60 (only through 530pm)

Site Code : 22712021

Start Date : 12/13/2012

Page No : 4

CSAH 50 & CSAH 60
Lakeville, MN





Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 1 - CSAH 50 & CSAH 60 (only through 530pm)

Site Code : 22712021

Start Date : 12/13/2012

Page No : 5

CSAH 50 & CSAH 60
Lakeville, MN

Start Time	CSAH 50 From North					CSAH 60 From East					CSAH 50 From South					CSAH 60 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	13	93	14	0	120	44	63	15	0	122	3	137	41	0	181	60	69	6	0	135	558
07:15 AM	13	63	8	0	84	50	73	10	0	133	11	157	47	0	215	34	52	23	0	109	541
07:30 AM	16	70	9	0	95	35	58	1	0	94	3	124	32	0	159	37	50	11	0	98	446
07:45 AM	9	86	7	0	102	32	65	2	0	99	7	119	21	0	147	56	54	17	0	127	475
Total Volume	51	312	38	0	401	161	259	28	0	448	24	537	141	0	702	187	225	57	0	469	2020
% App. Total	12.7	77.8	9.5	0		35.9	57.8	6.2	0		3.4	76.5	20.1	0		39.9	48	12.2	0		
PHF	.797	.839	.679	.000	.835	.805	.887	.467	.000	.842	.545	.855	.750	.000	.816	.779	.815	.620	.000	.869	.905

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	39	82	18	0	139	19	48	1	0	68	3	91	29	0	123	45	46	25	0	116	446
01:15 PM	20	83	14	0	117	20	46	2	0	68	2	79	31	0	112	40	39	19	0	98	395
01:30 PM	34	95	21	0	150	21	33	1	0	55	1	72	29	0	102	39	46	21	0	106	413
01:45 PM	34	96	23	0	153	21	45	8	0	74	6	77	22	0	105	51	53	20	0	124	456
Total Volume	127	356	76	0	559	81	172	12	0	265	12	319	111	0	442	175	184	85	0	444	1710
% App. Total	22.7	63.7	13.6	0		30.6	64.9	4.5	0		2.7	72.2	25.1	0		39.4	41.4	19.1	0		
PHF	.814	.927	.826	.000	.913	.964	.896	.375	.000	.895	.500	.876	.895	.000	.898	.858	.868	.850	.000	.895	.938

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	48	140	29	0	217	30	82	6	0	118	0	121	34	0	155	64	87	33	0	184	674
04:45 PM	43	141	26	0	210	18	72	7	0	97	6	89	43	0	138	74	103	23	0	200	645
05:00 PM	36	130	24	0	190	26	88	6	0	120	4	111	52	0	167	79	95	31	0	205	682
05:15 PM	35	164	35	0	234	22	64	5	0	91	2	91	38	0	131	70	105	36	0	211	667
Total Volume	162	575	114	0	851	96	306	24	0	426	12	412	167	0	591	287	390	123	0	800	2668
% App. Total	19	67.6	13.4	0		22.5	71.8	5.6	0		2	69.7	28.3	0		35.9	48.8	15.4	0		
PHF	.844	.877	.814	.000	.909	.800	.869	.857	.000	.888	.500	.851	.803	.000	.885	.908	.929	.854	.000	.948	.978



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 2 - CSAH 50 & 188th St
Site Code : 22712022
Start Date : 12/13/2012
Page No : 1

CSAH 50 & 188th St
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					188th St From East					CSAH 50 From South					188th St From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
06:00 AM	0	29	0	0	29	0	0	0	0	0	0	115	0	0	115	0	0	4	0	4	148
06:15 AM	0	45	0	0	45	0	0	0	0	0	0	133	1	0	134	1	0	0	0	1	180
06:30 AM	0	86	0	0	86	1	0	0	0	1	0	156	0	0	156	3	0	1	0	4	247
06:45 AM	0	105	1	0	106	1	0	0	0	1	0	168	3	0	171	4	0	3	0	7	285
Total	0	265	1	0	266	2	0	0	0	2	0	572	4	0	576	8	0	8	0	16	860
07:00 AM	0	150	0	0	150	0	0	0	0	0	0	201	5	0	206	12	0	3	0	15	371
07:15 AM	1	110	0	0	111	0	0	0	0	0	0	234	6	0	240	3	0	4	0	7	358
07:30 AM	2	106	0	0	108	0	0	0	0	0	0	175	1	0	176	6	0	5	0	11	295
07:45 AM	1	143	0	0	144	0	0	0	0	0	0	162	2	0	164	7	0	2	0	9	317
Total	4	509	0	0	513	0	0	0	0	0	0	772	14	0	786	28	0	14	0	42	1341
08:00 AM	2	68	0	0	70	0	0	0	0	0	0	178	2	0	180	0	0	1	0	1	251
08:15 AM	1	82	0	0	83	1	0	0	0	1	0	149	5	0	154	10	0	1	0	11	249
08:30 AM	0	65	0	0	65	0	0	0	0	0	0	130	3	0	133	4	0	1	0	5	203
08:45 AM	1	85	0	0	86	0	0	0	0	0	0	116	5	0	121	4	0	1	0	5	212
Total	4	300	0	0	304	1	0	0	0	1	0	573	15	0	588	18	0	4	0	22	915
09:00 AM	1	74	0	0	75	0	0	0	0	0	0	134	1	0	135	5	0	1	0	6	216
09:15 AM	0	88	0	0	88	0	0	0	0	0	0	143	4	0	147	1	0	0	0	1	236
09:30 AM	0	60	0	0	60	0	0	0	0	0	1	115	1	0	117	2	0	3	0	5	182
09:45 AM	1	69	0	0	70	0	0	0	0	0	0	98	4	0	102	2	0	1	0	3	175
Total	2	291	0	0	293	0	0	0	0	0	1	490	10	0	501	10	0	5	0	15	809
10:00 AM	0	64	0	0	64	0	0	0	0	0	0	107	1	0	108	2	0	3	0	5	177
10:15 AM	5	61	0	0	66	0	0	0	0	0	0	105	3	0	108	5	0	2	0	7	181
10:30 AM	0	74	0	0	74	0	0	0	0	0	0	104	2	0	106	5	0	3	0	8	188
10:45 AM	4	91	0	0	95	0	0	0	0	0	0	92	5	0	97	0	0	1	0	1	193
Total	9	290	0	0	299	0	0	0	0	0	0	408	11	0	419	12	0	9	0	21	739
11:00 AM	1	95	0	0	96	0	0	0	0	0	0	101	2	0	103	2	0	2	0	4	203
11:15 AM	2	102	0	0	104	0	0	0	0	0	0	113	1	0	114	2	0	3	0	5	223
11:30 AM	2	79	0	0	81	0	0	0	0	0	0	133	2	0	135	1	0	0	0	1	217
11:45 AM	3	111	0	0	114	0	0	0	0	0	0	107	1	0	108	6	0	2	0	8	230
Total	8	387	0	0	395	0	0	0	0	0	0	454	6	0	460	11	0	7	0	18	873
12:00 PM	2	95	0	0	97	1	0	0	0	1	1	110	5	0	116	5	0	0	0	5	219
12:15 PM	2	104	0	0	106	0	0	0	0	0	0	116	2	0	118	0	0	2	0	2	226
12:30 PM	2	122	0	0	124	0	0	0	0	0	0	129	0	0	129	2	0	2	0	4	257



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 2 - CSAH 50 & 188th St
Site Code : 22712022
Start Date : 12/13/2012
Page No : 2

CSAH 50 & 188th St
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					188th St From East					CSAH 50 From South					188th St From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
12:45 PM	1	119	0	0	120	0	0	0	0	0	0	119	2	0	121	2	0	0	0	2	243
Total	7	440	0	0	447	1	0	0	0	1	1	474	9	0	484	9	0	4	0	13	945
01:00 PM	2	124	0	0	126	0	0	0	0	0	0	126	1	0	127	4	0	2	0	6	259
01:15 PM	1	121	0	0	122	0	0	0	0	0	0	109	4	0	113	2	0	2	0	4	239
01:30 PM	1	123	0	0	124	0	0	0	0	0	0	98	4	0	102	2	0	0	0	2	228
01:45 PM	2	172	0	0	174	0	0	0	0	0	0	110	3	0	113	2	0	1	0	3	290
Total	6	540	0	0	546	0	0	0	0	0	0	443	12	0	455	10	0	5	0	15	1016
02:00 PM	2	153	0	0	155	0	0	0	0	0	0	133	6	0	139	6	0	2	0	8	302
02:15 PM	4	149	0	0	153	0	0	0	0	0	0	110	6	0	116	7	0	1	0	8	277
02:30 PM	2	172	0	0	174	0	0	0	0	0	0	138	2	0	140	4	0	0	0	4	318
02:45 PM	1	138	0	0	139	0	0	0	0	0	0	173	4	0	177	8	0	1	0	9	325
Total	9	612	0	0	621	0	0	0	0	0	0	554	18	0	572	25	0	4	0	29	1222
03:00 PM	2	163	0	0	165	0	0	0	0	0	0	152	3	0	155	4	0	2	0	6	326
03:15 PM	2	169	0	0	171	0	0	0	0	0	0	153	5	0	158	2	0	2	0	4	333
03:30 PM	6	179	0	0	185	0	0	0	0	0	0	140	4	0	144	11	0	1	0	12	341
03:45 PM	1	187	0	0	188	0	0	0	0	0	0	140	4	0	144	3	0	4	0	7	339
Total	11	698	0	0	709	0	0	0	0	0	0	585	16	0	601	20	0	9	0	29	1339
04:00 PM	7	215	0	0	222	0	0	0	0	0	0	159	5	0	164	9	0	5	0	14	400
04:15 PM	6	210	0	0	216	0	0	0	0	0	0	146	1	0	147	2	0	3	0	5	368
04:30 PM	1	217	0	0	218	0	0	0	0	0	0	158	11	0	169	4	0	1	0	5	392
04:45 PM	2	229	0	0	231	0	0	0	0	0	0	136	4	0	140	5	0	3	0	8	379
Total	16	871	0	0	887	0	0	0	0	0	0	599	21	0	620	20	0	12	0	32	1539
05:00 PM	4	230	0	0	234	0	0	0	0	0	1	169	4	0	174	5	0	2	0	7	415
05:15 PM	3	240	1	0	244	0	0	0	0	0	0	126	2	0	128	1	0	0	0	1	373
05:30 PM	2	229	0	0	231	0	0	0	0	0	1	148	2	0	151	2	0	0	0	2	384
05:45 PM	3	246	0	0	249	0	0	0	0	0	0	114	5	0	119	4	0	1	0	5	373
Total	12	945	1	0	958	0	0	0	0	0	2	557	13	0	572	12	0	3	0	15	1545
06:00 PM	3	206	0	0	209	0	0	0	0	0	0	133	0	0	133	2	0	1	0	3	345
06:15 PM	2	237	0	0	239	0	0	0	0	0	0	96	2	0	98	8	0	2	0	10	347
06:30 PM	6	235	0	0	241	0	0	0	0	0	0	123	2	0	125	5	0	0	0	5	371
06:45 PM	4	168	0	0	172	0	0	0	0	0	0	102	2	0	104	5	0	0	0	5	281
Total	15	846	0	0	861	0	0	0	0	0	0	454	6	0	460	20	0	3	0	23	1344



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 2 - CSAH 50 & 188th St

Site Code : 22712022

Start Date : 12/13/2012

Page No : 3

CSAH 50 & 188th St
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					188th St From East					CSAH 50 From South					188th St From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
07:00 PM	5	139	0	0	144	0	0	0	0	0	0	97	3	0	100	2	0	0	0	2	246
07:15 PM	1	118	0	0	119	1	0	0	0	1	0	97	3	0	100	0	0	0	0	0	220
07:30 PM	5	120	1	0	126	0	0	0	0	0	0	80	5	0	85	0	0	1	2	3	214
07:45 PM	1	107	0	0	108	0	0	0	0	0	0	148	6	0	154	1	0	1	0	2	264
Total	12	484	1	0	497	1	0	0	0	1	0	422	17	0	439	3	0	2	2	7	944
Grand Total	115	7478	3	0	7596	5	0	0	0	5	4	7357	172	0	7533	206	0	89	2	297	15431
Apprch %	1.5	98.4	0	0		100	0	0	0		0.1	97.7	2.3	0		69.4	0	30	0.7		
Total %	0.7	48.5	0	0	49.2	0	0	0	0	0	0	47.7	1.1	0	48.8	1.3	0	0.6	0	1.9	
Cars	111	7354	3	0	7468	5	0	0	0	5	2	7258	170	0	7430	197	0	87	2	286	15189
% Cars	96.5	98.3	100	0	98.3	100	0	0	0	100	50	98.7	98.8	0	98.6	95.6	0	97.8	100	96.3	98.4
Heavy Vehicles	4	124	0	0	128	0	0	0	0	0	2	99	2	0	103	9	0	2	0	11	242
% Heavy Vehicles	3.5	1.7	0	0	1.7	0	0	0	0	0	50	1.3	1.2	0	1.4	4.4	0	2.2	0	3.7	1.6

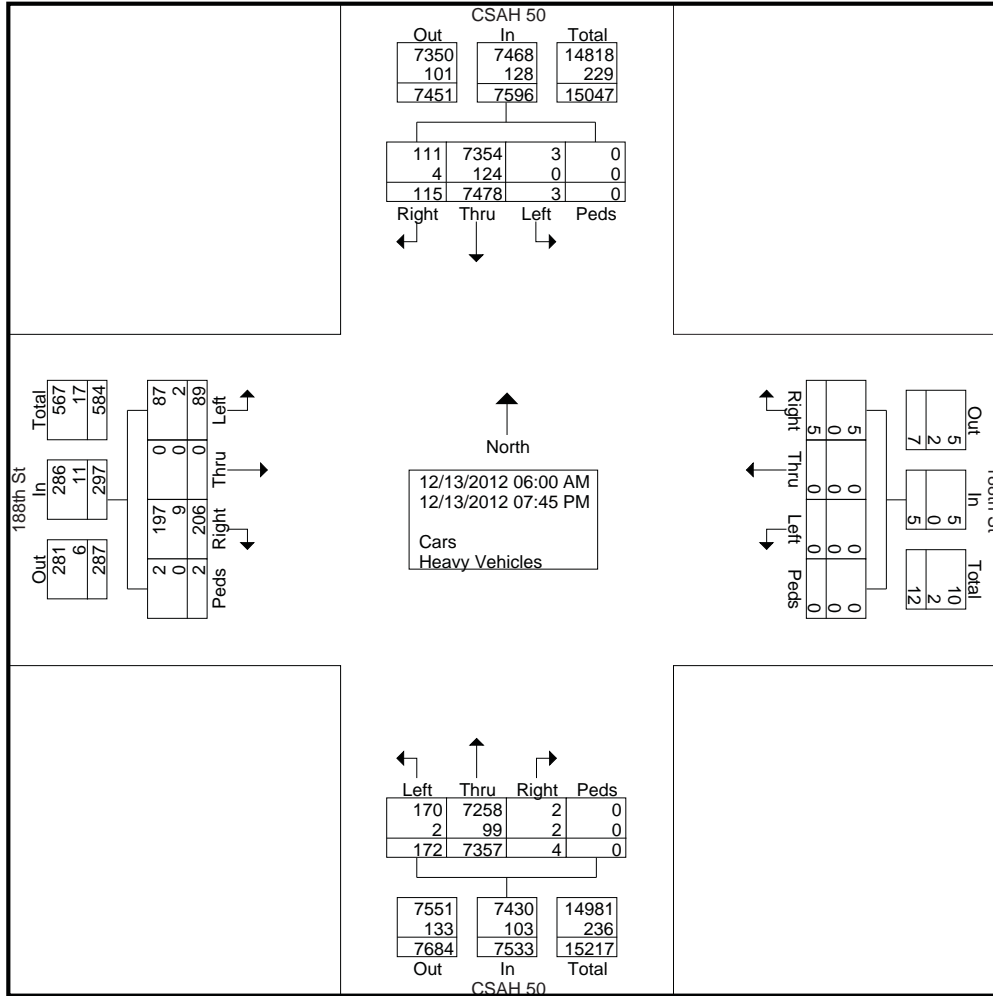


Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 2 - CSAH 50 & 188th St
Site Code : 22712022
Start Date : 12/13/2012
Page No : 4

CSAH 50 & 188th St
Lakeville, MN





Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 2 - CSAH 50 & 188th St
Site Code : 22712022
Start Date : 12/13/2012
Page No : 5

CSAH 50 & 188th St
Lakeville, MN

Start Time	CSAH 50 From North					188th St From East					CSAH 50 From South					188th St From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	0	150	0	0	150	0	0	0	0	0	0	201	5	0	206	12	0	3	0	15	371
07:15 AM	1	110	0	0	111	0	0	0	0	0	0	234	6	0	240	3	0	4	0	7	358
07:30 AM	2	106	0	0	108	0	0	0	0	0	0	175	1	0	176	6	0	5	0	11	295
07:45 AM	1	143	0	0	144	0	0	0	0	0	0	162	2	0	164	7	0	2	0	9	317
Total Volume	4	509	0	0	513	0	0	0	0	0	0	772	14	0	786	28	0	14	0	42	1341
% App. Total	0.8	99.2	0	0		0	0	0	0		0	98.2	1.8	0		66.7	0	33.3	0		
PHF	.500	.848	.000	.000	.855	.000	.000	.000	.000	.000	.000	.825	.583	.000	.819	.583	.000	.700	.000	.700	.904
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	2	124	0	0	126	0	0	0	0	0	0	126	1	0	127	4	0	2	0	6	259
01:15 PM	1	121	0	0	122	0	0	0	0	0	0	109	4	0	113	2	0	2	0	4	239
01:30 PM	1	123	0	0	124	0	0	0	0	0	0	98	4	0	102	2	0	0	0	2	228
01:45 PM	2	172	0	0	174	0	0	0	0	0	0	110	3	0	113	2	0	1	0	3	290
Total Volume	6	540	0	0	546	0	0	0	0	0	0	443	12	0	455	10	0	5	0	15	1016
% App. Total	1.1	98.9	0	0		0	0	0	0		0	97.4	2.6	0		66.7	0	33.3	0		
PHF	.750	.785	.000	.000	.784	.000	.000	.000	.000	.000	.000	.879	.750	.000	.896	.625	.000	.625	.000	.625	.876
Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	1	217	0	0	218	0	0	0	0	0	0	158	11	0	169	4	0	1	0	5	392
04:45 PM	2	229	0	0	231	0	0	0	0	0	0	136	4	0	140	5	0	3	0	8	379
05:00 PM	4	230	0	0	234	0	0	0	0	0	1	169	4	0	174	5	0	2	0	7	415
05:15 PM	3	240	1	0	244	0	0	0	0	0	0	126	2	0	128	1	0	0	0	1	373
Total Volume	10	916	1	0	927	0	0	0	0	0	1	589	21	0	611	15	0	6	0	21	1559
% App. Total	1.1	98.8	0.1	0		0	0	0	0		0.2	96.4	3.4	0		71.4	0	28.6	0		
PHF	.625	.954	.250	.000	.950	.000	.000	.000	.000	.000	.250	.871	.477	.000	.878	.750	.000	.500	.000	.656	.939



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 3 - CSAH 50 & 192nd St-KM School North Driveway

Site Code : 22712023

Start Date : 12/13/2012

Page No : 1

CSAH 50 & 192nd St/KM School South Drive
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					192nd St From East					CSAH 50 From South					KM School South Drive From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
06:00 AM	0	28	1	0	29	14	1	0	0	15	0	103	0	0	103	0	0	0	0	0	147
06:15 AM	2	40	4	0	46	5	0	2	0	7	0	128	0	0	128	0	0	0	0	0	181
06:30 AM	6	72	1	0	79	9	1	4	0	14	2	148	1	0	151	0	0	2	0	2	246
06:45 AM	19	79	12	0	110	14	3	0	0	17	3	143	2	0	148	0	1	2	0	3	278
Total	27	219	18	0	264	42	5	6	0	53	5	522	3	0	530	0	1	4	0	5	852
07:00 AM	63	74	18	0	155	25	2	2	0	29	4	168	12	0	184	1	1	10	0	12	380
07:15 AM	30	75	14	0	119	12	3	1	0	16	4	195	4	0	203	0	8	17	0	25	363
07:30 AM	2	81	22	0	105	19	1	0	0	20	3	154	0	0	157	0	1	2	0	3	285
07:45 AM	3	118	35	0	156	25	0	0	0	25	4	129	0	0	133	0	0	5	0	5	319
Total	98	348	89	0	535	81	6	3	0	90	15	646	16	0	677	1	10	34	0	45	1347
08:00 AM	2	60	6	2	70	24	1	0	0	25	3	143	0	0	146	0	0	2	0	2	243
08:15 AM	3	77	12	0	92	16	2	0	0	18	1	143	0	0	144	0	0	0	0	0	254
08:30 AM	0	69	4	0	73	15	1	0	0	16	1	111	0	0	112	0	0	0	0	0	201
08:45 AM	2	74	9	0	85	6	0	1	0	7	2	116	1	0	119	0	1	0	0	1	212
Total	7	280	31	2	320	61	4	1	0	66	7	513	1	0	521	0	1	2	0	3	910
09:00 AM	4	66	7	0	77	20	1	0	0	21	2	117	2	0	121	0	0	0	0	0	219
09:15 AM	3	81	2	0	86	9	0	0	0	9	4	136	0	0	140	0	0	1	0	1	236
09:30 AM	2	58	2	0	62	10	0	0	0	10	1	100	0	0	101	0	0	2	0	2	175
09:45 AM	2	70	1	0	73	3	0	1	0	4	0	98	0	0	98	0	0	0	0	0	175
Total	11	275	12	0	298	42	1	1	0	44	7	451	2	0	460	0	0	3	0	3	805
10:00 AM	0	58	6	0	64	8	0	0	0	8	0	99	0	0	99	0	1	1	0	2	173
10:15 AM	2	59	6	0	67	5	0	1	0	6	1	103	0	0	104	0	0	4	0	4	181
10:30 AM	2	70	5	0	77	7	0	2	0	9	0	90	0	0	90	0	2	4	0	6	182
10:45 AM	3	89	5	0	97	6	0	0	0	6	1	89	0	0	90	0	1	0	0	1	194
Total	7	276	22	0	305	26	0	3	0	29	2	381	0	0	383	0	4	9	0	13	730
11:00 AM	3	89	5	0	97	8	1	0	0	9	0	100	0	0	100	0	1	1	0	2	208
11:15 AM	4	92	7	0	103	11	1	1	0	13	1	107	1	0	109	0	0	1	0	1	226
11:30 AM	1	81	6	0	88	10	0	0	0	10	2	109	0	0	111	0	1	1	0	2	211
11:45 AM	0	103	10	0	113	5	0	0	0	5	0	99	0	0	99	0	0	1	0	1	218
Total	8	365	28	0	401	34	2	1	0	37	3	415	1	0	419	0	2	4	0	6	863
12:00 PM	3	98	5	0	106	8	1	1	0	10	1	104	0	0	105	0	0	3	0	3	224
12:15 PM	1	93	8	0	102	10	0	0	0	10	0	109	0	0	109	0	1	1	0	2	223
12:30 PM	0	119	4	0	123	7	0	0	0	7	1	115	0	0	116	0	0	1	0	1	247



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 3 - CSAH 50 & 192nd St-KM School North Driveway

Site Code : 22712023

Start Date : 12/13/2012

Page No : 2

CSAH 50 & 192nd St/KM School South Drive
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					192nd St From East					CSAH 50 From South					KM School South Drive From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
12:45 PM	1	98	4	0	103	7	1	0	0	8	0	123	1	0	124	0	0	0	0	0	235
Total	5	408	21	0	434	32	2	1	0	35	2	451	1	0	454	0	1	5	0	6	929
01:00 PM	2	123	7	0	132	9	0	1	0	10	2	114	1	0	117	1	0	1	0	2	261
01:15 PM	1	122	10	0	133	3	0	2	0	5	0	102	0	0	102	0	2	1	0	3	243
01:30 PM	2	119	7	0	128	5	0	1	0	6	0	88	0	0	88	0	1	2	0	3	225
01:45 PM	20	130	7	0	157	11	1	2	0	14	1	102	6	0	109	0	0	0	0	0	280
Total	25	494	31	0	550	28	1	6	0	35	3	406	7	0	416	1	3	4	0	8	1009
02:00 PM	11	132	12	0	155	9	2	1	0	12	6	96	1	0	103	0	3	25	0	28	298
02:15 PM	2	149	16	0	167	8	1	1	0	10	1	102	1	0	104	0	1	5	0	6	287
02:30 PM	3	150	14	0	167	25	0	0	0	25	1	112	1	0	114	0	0	1	0	1	307
02:45 PM	5	136	15	0	156	29	5	2	0	36	2	139	0	0	141	0	3	4	0	7	340
Total	21	567	57	0	645	71	8	4	0	83	10	449	3	0	462	0	7	35	0	42	1232
03:00 PM	8	136	15	0	159	9	3	1	0	13	7	119	0	0	126	0	2	18	0	20	318
03:15 PM	5	149	7	0	161	6	0	3	0	9	2	137	0	0	139	0	0	5	0	5	314
03:30 PM	0	154	19	0	173	12	0	2	0	14	2	126	1	0	129	0	1	6	0	7	323
03:45 PM	2	170	20	0	192	16	3	6	0	25	5	122	0	0	127	0	1	1	0	2	346
Total	15	609	61	0	685	43	6	12	0	61	16	504	1	0	521	0	4	30	0	34	1301
04:00 PM	3	190	20	0	213	8	0	1	0	9	2	153	0	0	155	0	2	3	0	5	382
04:15 PM	0	191	12	0	203	9	1	2	0	12	0	125	0	0	125	0	0	2	0	2	342
04:30 PM	3	193	22	0	218	13	0	4	0	17	1	153	0	0	154	0	0	2	0	2	391
04:45 PM	10	199	23	0	232	21	4	3	0	28	3	118	1	0	122	0	1	1	0	2	384
Total	16	773	77	0	866	51	5	10	0	66	6	549	1	0	556	0	3	8	0	11	1499
05:00 PM	9	188	20	0	217	8	6	3	0	17	1	147	1	0	149	2	5	5	0	12	395
05:15 PM	3	220	16	0	239	7	2	3	0	12	4	110	0	0	114	1	4	3	0	8	373
05:30 PM	6	205	19	0	230	7	3	2	0	12	6	134	0	0	140	0	1	1	0	2	384
05:45 PM	14	203	27	0	244	10	3	3	0	16	6	103	1	0	110	0	1	1	0	2	372
Total	32	816	82	0	930	32	14	11	0	57	17	494	2	0	513	3	11	10	0	24	1524
06:00 PM	14	176	10	0	200	9	0	2	0	11	1	114	1	0	116	0	0	2	0	2	329
06:15 PM	66	167	12	0	245	12	9	2	0	23	6	81	3	0	90	0	0	3	0	3	361
06:30 PM	41	183	23	0	247	13	7	3	0	23	1	101	0	0	102	0	2	5	0	7	379
06:45 PM	22	134	16	0	172	6	0	2	0	8	5	94	0	0	99	0	3	0	0	3	282
Total	143	660	61	0	864	40	16	9	0	65	13	390	4	0	407	0	5	10	0	15	1351



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 3 - CSAH 50 & 192nd St-KM School North Driveway

Site Code : 22712023

Start Date : 12/13/2012

Page No : 3

CSAH 50 & 192nd St/KM School South Drive
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					192nd St From East					CSAH 50 From South					KM School South Drive From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
07:00 PM	6	133	6	0	145	4	3	0	0	7	1	95	0	0	96	0	2	2	0	4	252
07:15 PM	3	104	11	0	118	10	0	3	0	13	1	81	0	0	82	0	2	6	0	8	221
07:30 PM	1	106	9	0	116	7	1	1	0	9	0	62	1	0	63	1	0	22	0	23	211
07:45 PM	2	97	13	0	112	7	0	0	0	7	2	74	1	0	77	2	18	57	0	77	273
Total	12	440	39	0	491	28	4	4	0	36	4	312	2	0	318	3	22	87	0	112	957
Grand Total	427	6530	629	2	7588	611	74	72	0	757	110	6483	44	0	6637	8	74	245	0	327	15309
Apprch %	5.6	86.1	8.3	0		80.7	9.8	9.5	0		1.7	97.7	0.7	0		2.4	22.6	74.9	0		
Total %	2.8	42.7	4.1	0	49.6	4	0.5	0.5	0	4.9	0.7	42.3	0.3	0	43.4	0.1	0.5	1.6	0	2.1	
Cars	427	6439	622	1	7489	605	74	70	0	749	102	6421	44	0	6567	8	73	245	0	326	15131
% Cars	100	98.6	98.9	50	98.7	99	100	97.2	0	98.9	92.7	99	100	0	98.9	100	98.6	100	0	99.7	98.8
Heavy Vehicles	0	91	7	1	99	6	0	2	0	8	8	62	0	0	70	0	1	0	0	1	178
% Heavy Vehicles	0	1.4	1.1	50	1.3	1	0	2.8	0	1.1	7.3	1	0	0	1.1	0	1.4	0	0	0.3	1.2



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

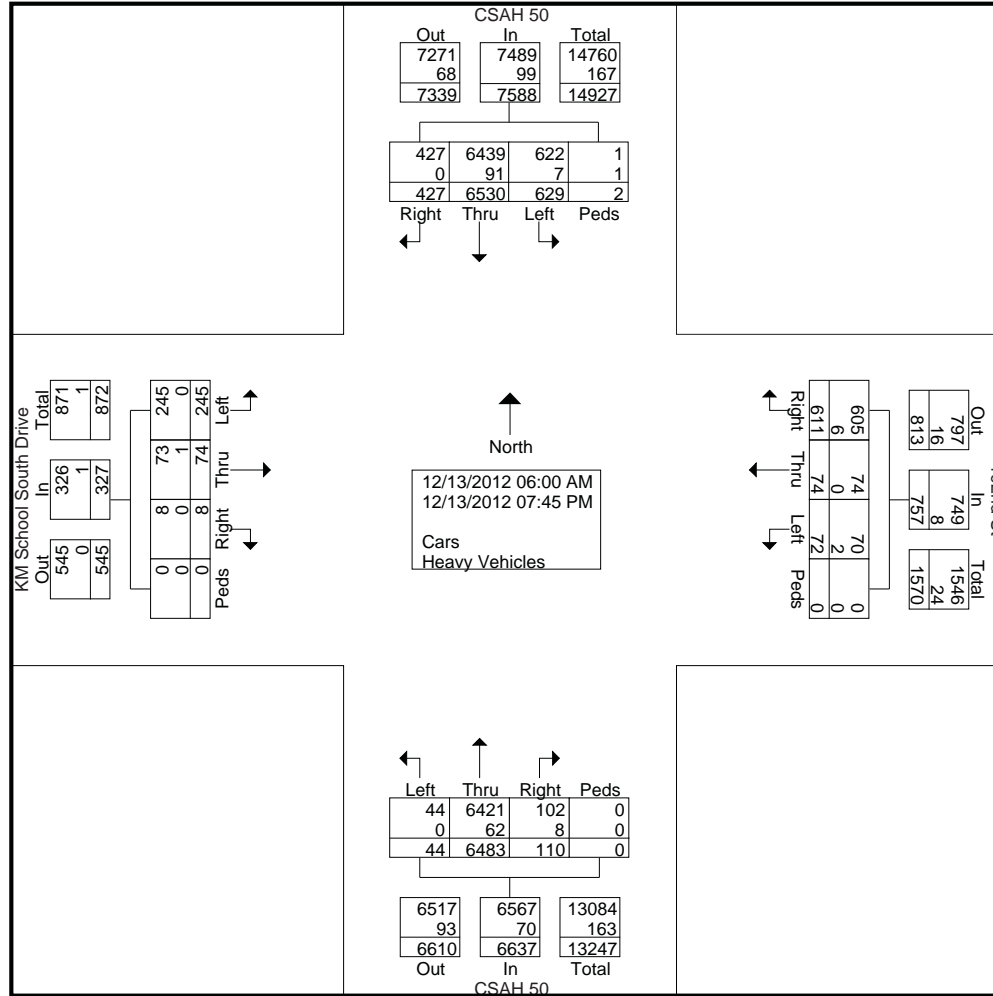
File Name : 3 - CSAH 50 & 192nd St-KM School North Driveway

Site Code : 22712023

Start Date : 12/13/2012

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CSAH 50 & 192nd St/KM School South Drive
Lakeville, MN





Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 3 - CSAH 50 & 192nd St-KM School North Driveway

Site Code : 22712023

Start Date : 12/13/2012

Page No : 5

CSAH 50 & 192nd St/KM School South Drive
Lakeville, MN

Start Time	CSAH 50 From North					192nd St From East					CSAH 50 From South					KM School South Drive From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	63	74	18	0	155	25	2	2	0	29	4	168	12	0	184	1	1	10	0	12	380
07:15 AM	30	75	14	0	119	12	3	1	0	16	4	195	4	0	203	0	8	17	0	25	363
07:30 AM	2	81	22	0	105	19	1	0	0	20	3	154	0	0	157	0	1	2	0	3	285
07:45 AM	3	118	35	0	156	25	0	0	0	25	4	129	0	0	133	0	0	5	0	5	319
Total Volume	98	348	89	0	535	81	6	3	0	90	15	646	16	0	677	1	10	34	0	45	1347
% App. Total	18.3	65	16.6	0		90	6.7	3.3	0		2.2	95.4	2.4	0		2.2	22.2	75.6	0		
PHF	.389	.737	.636	.000	.857	.810	.500	.375	.000	.776	.938	.828	.333	.000	.834	.250	.313	.500	.000	.450	.886

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	2	123	7	0	132	9	0	1	0	10	2	114	1	0	117	1	0	1	0	2	261
01:15 PM	1	122	10	0	133	3	0	2	0	5	0	102	0	0	102	0	2	1	0	3	243
01:30 PM	2	119	7	0	128	5	0	1	0	6	0	88	0	0	88	0	1	2	0	3	225
01:45 PM	20	130	7	0	157	11	1	2	0	14	1	102	6	0	109	0	0	0	0	0	280
Total Volume	25	494	31	0	550	28	1	6	0	35	3	406	7	0	416	1	3	4	0	8	1009
% App. Total	4.5	89.8	5.6	0		80	2.9	17.1	0		0.7	97.6	1.7	0		12.5	37.5	50	0		
PHF	.313	.950	.775	.000	.876	.636	.250	.750	.000	.625	.375	.890	.292	.000	.889	.250	.375	.500	.000	.667	.901

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	3	193	22	0	218	13	0	4	0	17	1	153	0	0	154	0	0	2	0	2	391
04:45 PM	10	199	23	0	232	21	4	3	0	28	3	118	1	0	122	0	1	1	0	2	384
05:00 PM	9	188	20	0	217	8	6	3	0	17	1	147	1	0	149	2	5	5	0	12	395
05:15 PM	3	220	16	0	239	7	2	3	0	12	4	110	0	0	114	1	4	3	0	8	373
Total Volume	25	800	81	0	906	49	12	13	0	74	9	528	2	0	539	3	10	11	0	24	1543
% App. Total	2.8	88.3	8.9	0		66.2	16.2	17.6	0		1.7	98	0.4	0		12.5	41.7	45.8	0		
PHF	.625	.909	.880	.000	.948	.583	.500	.813	.000	.661	.563	.863	.500	.000	.875	.375	.500	.550	.000	.500	.977



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 4 - CSAH 50 & KM School South Driveway

Site Code : 22712024

Start Date : 12/13/2012

Page No : 1

CSAH 50 & KM School South Driveway
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					From East					CSAH 50 From South					KM School South Driveway From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
06:00 AM	2	26	0	0	28	0	0	0	0	0	0	103	1	0	104	0	0	0	0	0	132
06:15 AM	0	39	0	0	39	0	0	0	0	0	0	128	1	0	129	0	0	0	0	0	168
06:30 AM	0	76	0	0	76	0	0	0	0	0	0	140	5	0	145	1	0	1	0	2	223
06:45 AM	1	65	0	0	66	0	0	0	0	0	0	149	14	0	163	4	0	3	0	7	236
Total	3	206	0	0	209	0	0	0	0	0	0	520	21	0	541	5	0	4	0	9	759
07:00 AM	17	68	0	0	85	0	0	0	0	0	0	170	15	0	185	11	0	19	0	30	300
07:15 AM	1	79	0	0	80	0	0	0	0	0	0	168	2	0	170	23	0	28	0	51	301
07:30 AM	0	81	0	0	81	0	0	0	0	0	0	153	2	0	155	0	0	0	0	0	236
07:45 AM	1	117	0	0	118	0	0	0	0	0	0	140	1	0	141	0	0	1	0	1	260
Total	19	345	0	0	364	0	0	0	0	0	0	631	20	0	651	34	0	48	0	82	1097
08:00 AM	0	58	0	0	58	0	0	0	0	0	0	141	0	0	141	1	0	0	0	1	200
08:15 AM	0	80	0	0	80	0	0	0	0	0	0	135	0	0	135	0	0	1	0	1	216
08:30 AM	0	72	0	0	72	0	0	0	0	0	0	115	0	0	115	0	0	1	0	1	188
08:45 AM	0	74	0	0	74	0	0	0	0	0	0	116	0	0	116	0	0	1	0	1	191
Total	0	284	0	0	284	0	0	0	0	0	0	507	0	0	507	1	0	3	0	4	795
09:00 AM	0	67	0	0	67	0	0	0	0	0	0	129	1	0	130	3	0	2	0	5	202
09:15 AM	0	88	0	0	88	0	0	0	0	0	0	133	2	0	135	0	0	1	0	1	224
09:30 AM	0	55	0	0	55	0	0	0	0	0	0	101	0	0	101	2	0	1	0	3	159
09:45 AM	0	70	0	0	70	0	0	0	0	0	0	96	1	0	97	0	0	1	0	1	168
Total	0	280	0	0	280	0	0	0	0	0	0	459	4	0	463	5	0	5	0	10	753
10:00 AM	0	58	0	0	58	0	0	0	0	0	0	94	1	0	95	2	0	0	0	2	155
10:15 AM	0	64	0	0	64	0	0	0	0	0	0	106	0	0	106	2	0	0	0	2	172
10:30 AM	0	71	0	0	71	0	0	0	0	0	0	95	1	0	96	0	0	0	0	0	167
10:45 AM	0	87	0	0	87	0	0	0	0	0	0	87	2	0	89	0	0	1	0	1	177
Total	0	280	0	0	280	0	0	0	0	0	0	382	4	0	386	4	0	1	0	5	671
11:00 AM	0	88	0	0	88	0	0	0	0	0	0	98	0	0	98	0	0	1	0	1	187
11:15 AM	0	96	0	0	96	0	0	0	0	0	0	120	0	0	120	0	0	1	0	1	217
11:30 AM	0	79	0	0	79	0	0	0	0	0	0	105	0	0	105	0	0	0	0	0	184
11:45 AM	0	106	0	0	106	0	0	0	0	0	0	100	2	0	102	3	0	0	0	3	211
Total	0	369	0	0	369	0	0	0	0	0	0	423	2	0	425	3	0	2	0	5	799
12:00 PM	1	96	0	0	97	0	0	0	0	0	0	117	1	0	118	1	0	0	0	1	216
12:15 PM	0	90	0	0	90	0	0	0	0	0	0	104	0	0	104	1	0	2	0	3	197
12:30 PM	0	120	0	0	120	0	0	0	0	0	0	119	0	0	119	1	0	0	0	1	240



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 4 - CSAH 50 & KM School South Driveway

Site Code : 22712024

Start Date : 12/13/2012

Page No : 2

CSAH 50 & KM School South Driveway
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					From East					CSAH 50 From South					KM School South Driveway From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
12:45 PM	2	98	0	0	100	0	0	0	0	0	0	121	1	0	122	0	0	0	0	0	222
Total	3	404	0	0	407	0	0	0	0	0	0	461	2	0	463	3	0	2	0	5	875
01:00 PM	1	126	0	0	127	0	0	0	0	0	0	113	0	0	113	1	0	1	0	2	242
01:15 PM	0	121	0	0	121	0	0	0	0	0	0	108	2	0	110	4	0	0	0	4	235
01:30 PM	0	118	0	0	118	0	0	0	0	0	0	91	2	0	93	0	0	1	0	1	212
01:45 PM	1	129	0	0	130	0	0	0	0	0	0	113	14	0	127	2	0	1	0	3	260
Total	2	494	0	0	496	0	0	0	0	0	0	425	18	0	443	7	0	3	0	10	949
02:00 PM	3	132	0	0	135	0	0	0	0	0	0	88	3	0	91	19	0	21	0	40	266
02:15 PM	4	143	0	0	147	0	0	0	0	0	0	102	3	0	105	8	0	1	0	9	261
02:30 PM	0	150	0	0	150	0	0	0	0	0	0	120	2	0	122	3	0	0	0	3	275
02:45 PM	4	128	0	0	132	0	0	0	0	0	0	141	17	0	158	6	0	3	0	9	299
Total	11	553	0	0	564	0	0	0	0	0	0	451	25	0	476	36	0	25	0	61	1101
03:00 PM	3	144	0	0	147	0	0	0	0	0	0	112	9	0	121	7	0	12	0	19	287
03:15 PM	1	158	0	0	159	0	0	0	0	0	0	143	1	0	144	7	0	3	0	10	313
03:30 PM	5	153	0	0	158	0	0	0	0	0	0	136	4	0	140	1	0	2	0	3	301
03:45 PM	10	167	0	1	178	0	0	0	0	0	0	116	13	0	129	7	0	8	0	15	322
Total	19	622	0	1	642	0	0	0	0	0	0	507	27	0	534	22	0	25	0	47	1223
04:00 PM	5	189	0	0	194	0	0	0	0	0	0	151	10	0	161	8	0	4	0	12	367
04:15 PM	2	189	0	0	191	0	0	0	0	0	0	135	6	0	141	5	0	0	0	5	337
04:30 PM	2	191	0	0	193	0	0	0	0	0	0	165	2	0	167	2	0	0	0	2	362
04:45 PM	3	201	0	0	204	0	0	0	0	0	0	112	10	0	122	4	0	3	0	7	333
Total	12	770	0	0	782	0	0	0	0	0	0	563	28	0	591	19	0	7	0	26	1399
05:00 PM	5	183	0	0	188	0	0	0	0	0	0	149	6	0	155	10	0	6	0	16	359
05:15 PM	10	207	0	0	217	0	0	0	0	0	0	100	5	0	105	6	0	10	0	16	338
05:30 PM	20	180	0	0	200	0	0	0	0	0	0	142	14	0	156	3	0	3	0	6	362
05:45 PM	16	192	0	0	208	0	0	0	0	0	0	101	12	0	113	6	0	6	0	12	333
Total	51	762	0	0	813	0	0	0	0	0	0	492	37	0	529	25	0	25	0	50	1392
06:00 PM	12	159	0	0	171	0	0	0	0	0	0	124	7	0	131	1	0	2	0	3	305
06:15 PM	7	157	0	0	164	0	0	0	0	0	0	83	9	0	92	3	0	3	0	6	262
06:30 PM	6	179	0	0	185	0	0	0	0	0	0	102	6	0	108	4	0	2	0	6	299
06:45 PM	3	132	0	0	135	0	0	0	0	0	0	87	6	0	93	0	0	3	0	3	231
Total	28	627	0	0	655	0	0	0	0	0	0	396	28	0	424	8	0	10	0	18	1097



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 4 - CSAH 50 & KM School South Driveway
Site Code : 22712024
Start Date : 12/13/2012
Page No : 3

CSAH 50 & KM School South Driveway
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					From East					CSAH 50 From South					KM School South Driveway From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
07:00 PM	2	135	0	0	137	0	0	0	0	0	0	99	3	0	102	5	0	0	0	5	244
07:15 PM	1	103	0	0	104	0	0	0	0	0	0	72	1	0	73	3	0	8	0	11	188
07:30 PM	0	104	0	0	104	0	0	0	0	0	0	57	1	0	58	8	0	14	0	22	184
07:45 PM	0	99	0	0	99	0	0	0	0	0	0	58	2	0	60	10	0	34	1	45	204
Total	3	441	0	0	444	0	0	0	0	0	0	286	7	0	293	26	0	56	1	83	820
Grand Total	151	6437	0	1	6589	0	0	0	0	0	0	6503	223	0	6726	198	0	216	1	415	13730
Apprch %	2.3	97.7	0	0		0	0	0	0	0	0	96.7	3.3	0		47.7	0	52	0.2		
Total %	1.1	46.9	0	0	48	0	0	0	0	0	0	47.4	1.6	0	49	1.4	0	1.6	0	3	
Cars	133	6340	0	1	6474	0	0	0	0	0	0	6427	210	0	6637	186	0	195	1	382	13493
% Cars	88.1	98.5	0	100	98.3	0	0	0	0	0	0	98.8	94.2	0	98.7	93.9	0	90.3	100	92	98.3
Heavy Vehicles	18	97	0	0	115	0	0	0	0	0	0	76	13	0	89	12	0	21	0	33	237
% Heavy Vehicles	11.9	1.5	0	0	1.7	0	0	0	0	0	0	1.2	5.8	0	1.3	6.1	0	9.7	0	8	1.7

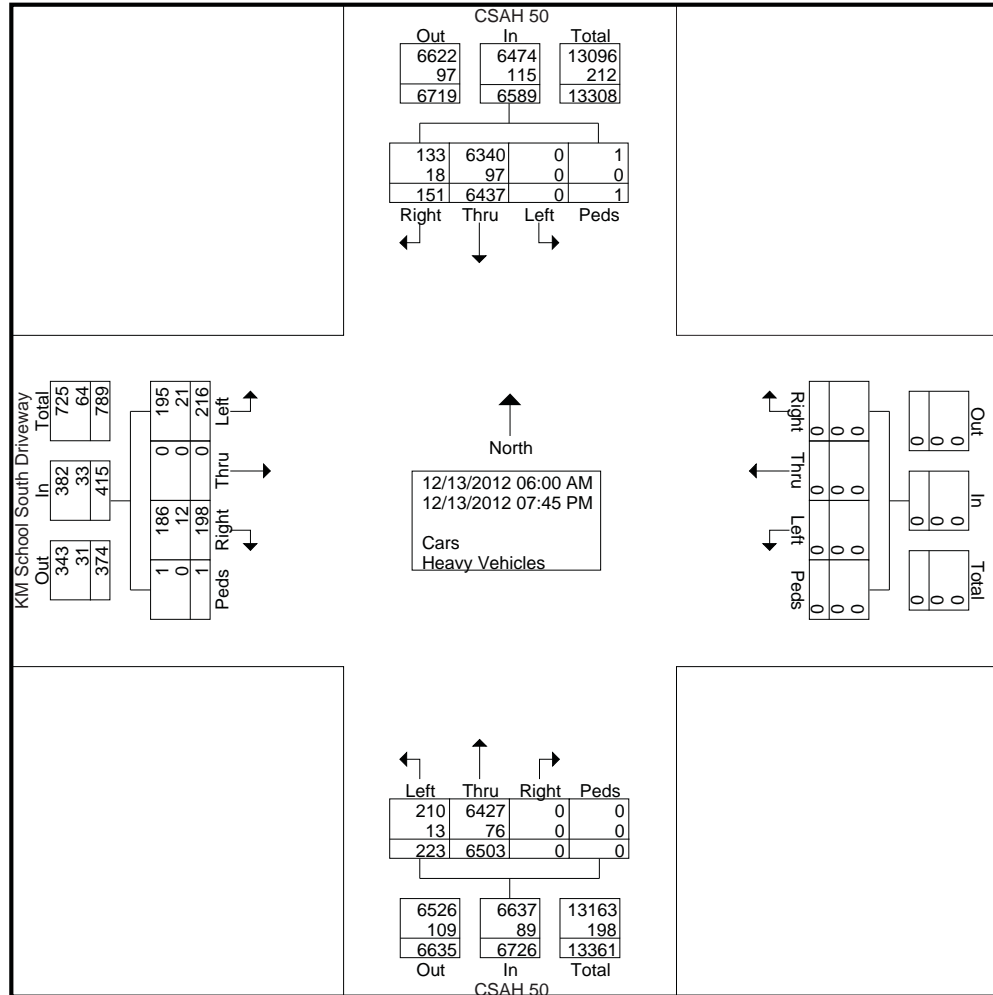


Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 4 - CSAH 50 & KM School South Driveway
Site Code : 22712024
Start Date : 12/13/2012
Page No : 4

CSAH 50 & KM School South Driveway
Lakeville, MN





Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 4 - CSAH 50 & KM School South Driveway
Site Code : 22712024
Start Date : 12/13/2012
Page No : 5

CSAH 50 & KM School South Driveway
Lakeville, MN

Start Time	CSAH 50 From North					From East					CSAH 50 From South					KM School South Driveway From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	17	68	0	0	85	0	0	0	0	0	0	170	15	0	185	11	0	19	0	30	300
07:15 AM	1	79	0	0	80	0	0	0	0	0	0	168	2	0	170	23	0	28	0	51	301
07:30 AM	0	81	0	0	81	0	0	0	0	0	0	153	2	0	155	0	0	0	0	0	236
07:45 AM	1	117	0	0	118	0	0	0	0	0	0	140	1	0	141	0	0	1	0	1	260
Total Volume	19	345	0	0	364	0	0	0	0	0	0	631	20	0	651	34	0	48	0	82	1097
% App. Total	5.2	94.8	0	0		0	0	0	0	0	0	96.9	3.1	0		41.5	0	58.5	0		
PHF	.279	.737	.000	.000	.771	.000	.000	.000	.000	.000	.000	.928	.333	.000	.880	.370	.000	.429	.000	.402	.911
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	1	126	0	0	127	0	0	0	0	0	0	113	0	0	113	1	0	1	0	2	242
01:15 PM	0	121	0	0	121	0	0	0	0	0	0	108	2	0	110	4	0	0	0	4	235
01:30 PM	0	118	0	0	118	0	0	0	0	0	0	91	2	0	93	0	0	1	0	1	212
01:45 PM	1	129	0	0	130	0	0	0	0	0	0	113	14	0	127	2	0	1	0	3	260
Total Volume	2	494	0	0	496	0	0	0	0	0	0	425	18	0	443	7	0	3	0	10	949
% App. Total	0.4	99.6	0	0		0	0	0	0	0	0	95.9	4.1	0		70	0	30	0		
PHF	.500	.957	.000	.000	.954	.000	.000	.000	.000	.000	.000	.940	.321	.000	.872	.438	.000	.750	.000	.625	.913
Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:00 PM																					
04:00 PM	5	189	0	0	194	0	0	0	0	0	0	151	10	0	161	8	0	4	0	12	367
04:15 PM	2	189	0	0	191	0	0	0	0	0	0	135	6	0	141	5	0	0	0	5	337
04:30 PM	2	191	0	0	193	0	0	0	0	0	0	165	2	0	167	2	0	0	0	2	362
04:45 PM	3	201	0	0	204	0	0	0	0	0	0	112	10	0	122	4	0	3	0	7	333
Total Volume	12	770	0	0	782	0	0	0	0	0	0	563	28	0	591	19	0	7	0	26	1399
% App. Total	1.5	98.5	0	0		0	0	0	0	0	0	95.3	4.7	0		73.1	0	26.9	0		
PHF	.600	.958	.000	.000	.958	.000	.000	.000	.000	.000	.000	.853	.700	.000	.885	.594	.000	.438	.000	.542	.953



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 5 - CSAH 50 & Jaguar Ave
Site Code : 22712025
Start Date : 12/13/2012
Page No : 1

CSAH 50 & Jaguar Ave
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					From East					CSAH 50 From South					Jaguar Ave From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
06:00 AM	1	24	0	0	25	0	0	0	0	0	0	99	0	0	99	2	0	8	0	10	134
06:15 AM	0	42	0	0	42	0	0	0	0	0	0	119	1	0	120	3	0	10	0	13	175
06:30 AM	3	70	0	0	73	0	0	0	0	0	0	130	0	0	130	0	0	17	0	17	220
06:45 AM	3	84	0	0	87	0	0	0	0	0	0	140	3	0	143	8	0	22	0	30	260
Total	7	220	0	0	227	0	0	0	0	0	0	488	4	0	492	13	0	57	0	70	789
07:00 AM	5	82	0	0	87	0	0	0	0	0	0	163	6	0	169	8	0	16	0	24	280
07:15 AM	7	94	0	0	101	0	0	0	0	0	0	157	6	0	163	9	0	18	0	27	291
07:30 AM	3	79	0	0	82	0	0	0	0	0	0	150	5	0	155	16	0	8	0	24	261
07:45 AM	1	116	0	0	117	0	0	0	0	0	0	127	6	0	133	31	0	11	0	42	292
Total	16	371	0	0	387	0	0	0	0	0	0	597	23	0	620	64	0	53	0	117	1124
08:00 AM	0	59	0	0	59	0	0	0	0	0	0	136	13	0	149	8	0	4	0	12	220
08:15 AM	4	76	0	0	80	0	0	0	0	0	0	120	5	0	125	9	0	13	0	22	227
08:30 AM	1	67	0	0	68	0	0	0	0	0	0	110	5	0	115	8	0	7	0	15	198
08:45 AM	5	70	0	0	75	0	0	0	0	0	0	93	4	0	97	5	0	14	0	19	191
Total	10	272	0	0	282	0	0	0	0	0	0	459	27	0	486	30	0	38	0	68	836
09:00 AM	6	62	0	0	68	0	0	0	0	0	0	119	3	0	122	18	0	9	0	27	217
09:15 AM	8	69	0	0	77	0	0	0	0	0	0	126	6	0	132	6	0	8	0	14	223
09:30 AM	5	54	0	0	59	0	0	0	0	0	0	88	4	0	92	2	0	14	0	16	167
09:45 AM	1	70	0	0	71	0	0	0	0	0	0	90	1	0	91	7	0	6	0	13	175
Total	20	255	0	0	275	0	0	0	0	0	0	423	14	0	437	33	0	37	0	70	782
10:00 AM	3	57	0	0	60	0	0	0	0	0	0	86	1	0	87	4	0	10	0	14	161
10:15 AM	4	56	0	0	60	0	0	0	0	0	0	100	2	0	102	1	0	5	0	6	168
10:30 AM	8	66	0	0	74	0	0	0	0	0	0	91	6	0	97	2	0	4	0	6	177
10:45 AM	5	85	0	0	90	0	0	0	0	0	0	83	6	0	89	7	0	7	0	14	193
Total	20	264	0	0	284	0	0	0	0	0	0	360	15	0	375	14	0	26	0	40	699
11:00 AM	4	82	0	0	86	0	0	0	0	0	0	90	2	0	92	3	0	4	0	7	185
11:15 AM	4	88	0	0	92	0	0	0	0	0	0	111	4	0	115	3	0	6	0	9	216
11:30 AM	2	79	0	0	81	0	0	0	0	0	0	102	3	0	105	5	0	5	0	10	196
11:45 AM	4	102	0	0	106	0	0	0	0	0	0	96	3	0	99	6	0	3	0	9	214
Total	14	351	0	0	365	0	0	0	0	0	0	399	12	0	411	17	0	18	0	35	811
12:00 PM	3	94	0	0	97	0	0	0	0	0	0	108	3	0	111	6	0	10	0	16	224
12:15 PM	4	83	0	0	87	0	0	0	0	0	0	94	4	0	98	4	0	5	0	9	194
12:30 PM	7	116	0	1	124	0	0	0	0	0	0	113	2	0	115	4	0	4	0	8	247



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 5 - CSAH 50 & Jaguar Ave
Site Code : 22712025
Start Date : 12/13/2012
Page No : 2

CSAH 50 & Jaguar Ave
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					From East					CSAH 50 From South					Jaguar Ave From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
12:45 PM	3	93	0	0	96	0	0	0	0	0	0	115	5	0	120	6	0	4	0	10	226
Total	17	386	0	1	404	0	0	0	0	0	0	430	14	0	444	20	0	23	0	43	891
01:00 PM	10	118	0	0	128	0	0	0	0	0	0	104	1	0	105	7	0	4	0	11	244
01:15 PM	8	116	0	0	124	0	0	0	0	0	0	100	3	0	103	3	0	11	0	14	241
01:30 PM	11	108	0	0	119	0	0	0	0	0	0	87	6	0	93	2	0	3	0	5	217
01:45 PM	8	120	0	0	128	0	0	0	0	0	0	115	2	0	117	3	0	7	0	10	255
Total	37	462	0	0	499	0	0	0	0	0	0	406	12	0	418	15	0	25	0	40	957
02:00 PM	6	145	0	0	151	0	0	0	0	0	0	84	6	0	90	3	0	2	0	5	246
02:15 PM	3	150	0	0	153	0	0	0	0	0	0	83	2	0	85	3	0	13	0	16	254
02:30 PM	6	149	0	0	155	0	0	0	0	0	0	120	12	0	132	9	0	4	0	13	300
02:45 PM	7	134	0	0	141	0	0	0	0	0	0	144	26	0	170	13	0	11	0	24	335
Total	22	578	0	0	600	0	0	0	0	0	0	431	46	0	477	28	0	30	0	58	1135
03:00 PM	7	140	0	0	147	0	0	0	0	0	0	118	8	0	126	4	0	12	0	16	289
03:15 PM	10	157	0	0	167	0	0	0	0	0	0	134	9	0	143	8	0	4	0	12	322
03:30 PM	8	141	0	0	149	0	0	0	0	0	0	127	13	0	140	6	0	6	0	12	301
03:45 PM	10	160	0	0	170	0	0	0	0	0	0	115	9	0	124	8	0	12	0	20	314
Total	35	598	0	0	633	0	0	0	0	0	0	494	39	0	533	26	0	34	0	60	1226
04:00 PM	23	176	0	0	199	0	0	0	0	0	0	149	17	0	166	4	0	8	0	12	377
04:15 PM	15	175	0	0	190	0	0	0	0	0	0	115	13	0	128	11	0	11	0	22	340
04:30 PM	10	180	0	0	190	0	0	0	0	0	0	155	12	0	167	5	0	5	0	10	367
04:45 PM	13	188	0	0	201	0	0	0	0	0	0	113	13	0	126	13	0	9	0	22	349
Total	61	719	0	0	780	0	0	0	0	0	0	532	55	0	587	33	0	33	0	66	1433
05:00 PM	10	184	0	0	194	0	0	0	0	0	0	151	12	0	163	9	0	9	0	18	375
05:15 PM	9	203	0	0	212	0	0	0	0	0	0	97	16	0	113	12	0	8	0	20	345
05:30 PM	15	173	0	0	188	0	0	0	0	0	0	148	11	0	159	5	0	8	0	13	360
05:45 PM	17	177	0	0	194	0	0	0	0	0	0	101	8	0	109	8	0	8	0	16	319
Total	51	737	0	0	788	0	0	0	0	0	0	497	47	0	544	34	0	33	0	67	1399
06:00 PM	11	155	0	0	166	0	0	0	0	0	0	119	8	0	127	5	0	8	0	13	306
06:15 PM	15	140	0	0	155	0	0	0	0	0	0	89	11	0	100	11	0	7	0	18	273
06:30 PM	16	165	0	0	181	0	0	0	0	0	0	92	7	0	99	5	0	5	0	10	290
06:45 PM	11	121	0	0	132	0	0	0	0	0	0	86	5	0	91	7	0	8	0	15	238
Total	53	581	0	0	634	0	0	0	0	0	0	386	31	0	417	28	0	28	0	56	1107



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 5 - CSAH 50 & Jaguar Ave

Site Code : 22712025

Start Date : 12/13/2012

Page No : 3

CSAH 50 & Jaguar Ave
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 50 From North					From East					CSAH 50 From South					Jaguar Ave From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
07:00 PM	10	125	0	0	135	0	0	0	0	0	0	83	4	0	87	7	0	11	0	18	240
07:15 PM	11	99	0	0	110	0	0	0	0	0	0	73	2	0	75	6	0	2	0	8	193
07:30 PM	16	101	0	0	117	0	0	0	0	0	0	52	7	0	59	3	0	4	0	7	183
07:45 PM	12	100	0	0	112	0	0	0	0	0	0	46	2	0	48	10	0	11	0	21	181
Total	49	425	0	0	474	0	0	0	0	0	0	254	15	0	269	26	0	28	0	54	797
Grand Total	412	6219	0	1	6632	0	0	0	0	0	0	6156	354	0	6510	381	0	463	0	844	13986
Apprch %	6.2	93.8	0	0		0	0	0	0		0	94.6	5.4	0		45.1	0	54.9	0		
Total %	2.9	44.5	0	0	47.4	0	0	0	0	0	0	44	2.5	0	46.5	2.7	0	3.3	0	6	
Cars	407	6146	0	0	6553	0	0	0	0	0	0	6093	352	0	6445	378	0	462	0	840	13838
% Cars	98.8	98.8	0	0	98.8	0	0	0	0	0	0	99	99.4	0	99	99.2	0	99.8	0	99.5	98.9
Heavy Vehicles	5	73	0	1	79	0	0	0	0	0	0	63	2	0	65	3	0	1	0	4	148
% Heavy Vehicles	1.2	1.2	0	100	1.2	0	0	0	0	0	0	1	0.6	0	1	0.8	0	0.2	0	0.5	1.1

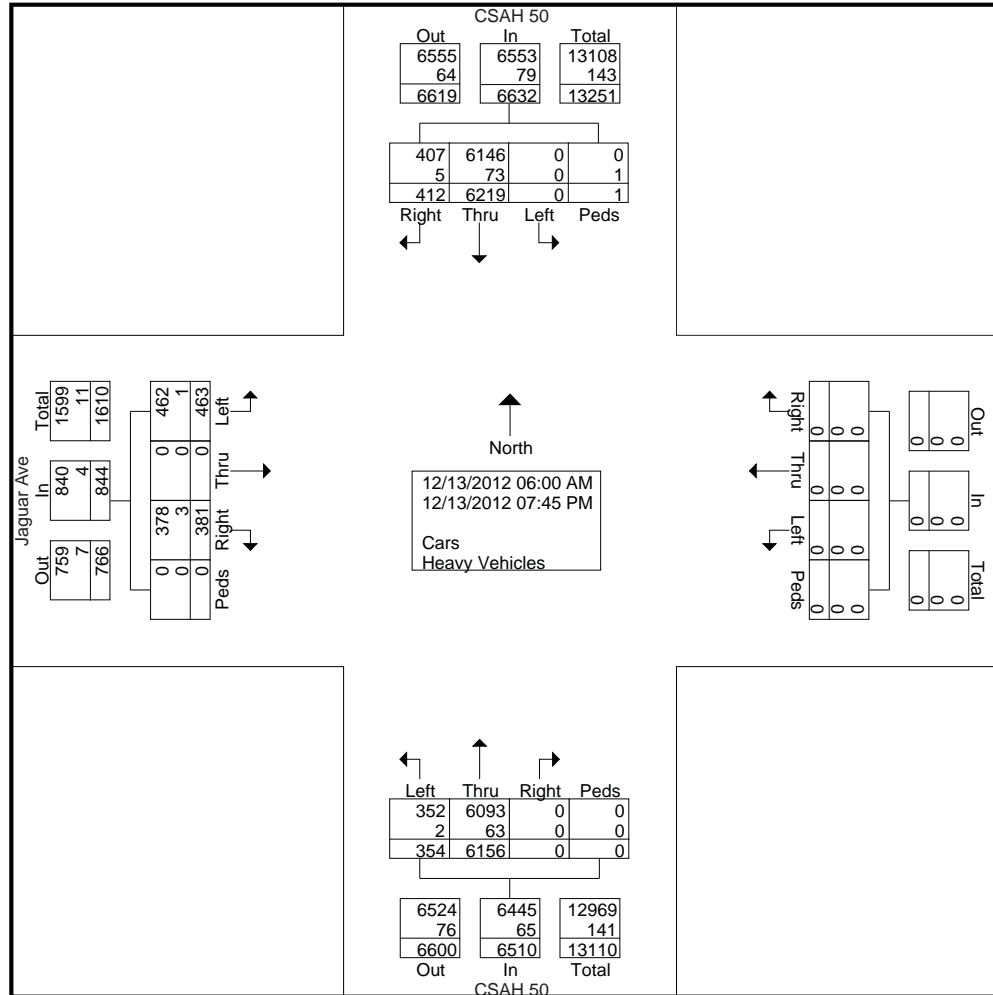


Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 5 - CSAH 50 & Jaguar Ave
Site Code : 22712025
Start Date : 12/13/2012
Page No : 4

CSAH 50 & Jaguar Ave
Lakeville, MN





Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 5 - CSAH 50 & Jaguar Ave
Site Code : 22712025
Start Date : 12/13/2012
Page No : 5

CSAH 50 & Jaguar Ave
Lakeville, MN

Start Time	CSAH 50 From North					From East					CSAH 50 From South					Jaguar Ave From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	5	82	0	0	87	0	0	0	0	0	0	163	6	0	169	8	0	16	0	24	280
07:15 AM	7	94	0	0	101	0	0	0	0	0	0	157	6	0	163	9	0	18	0	27	291
07:30 AM	3	79	0	0	82	0	0	0	0	0	0	150	5	0	155	16	0	8	0	24	261
07:45 AM	1	116	0	0	117	0	0	0	0	0	0	127	6	0	133	31	0	11	0	42	292
Total Volume	16	371	0	0	387	0	0	0	0	0	0	597	23	0	620	64	0	53	0	117	1124
% App. Total	4.1	95.9	0	0		0	0	0	0	0	0	96.3	3.7	0		54.7	0	45.3	0		
PHF	.571	.800	.000	.000	.827	.000	.000	.000	.000	.000	.000	.916	.958	.000	.917	.516	.000	.736	.000	.696	.962

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:30 PM																					
12:30 PM	7	116	0	1	124	0	0	0	0	0	0	113	2	0	115	4	0	4	0	8	247
12:45 PM	3	93	0	0	96	0	0	0	0	0	0	115	5	0	120	6	0	4	0	10	226
01:00 PM	10	118	0	0	128	0	0	0	0	0	0	104	1	0	105	7	0	4	0	11	244
01:15 PM	8	116	0	0	124	0	0	0	0	0	0	100	3	0	103	3	0	11	0	14	241
Total Volume	28	443	0	1	472	0	0	0	0	0	0	432	11	0	443	20	0	23	0	43	958
% App. Total	5.9	93.9	0	0.2		0	0	0	0	0	0	97.5	2.5	0		46.5	0	53.5	0		
PHF	.700	.939	.000	.250	.922	.000	.000	.000	.000	.000	.000	.939	.550	.000	.923	.714	.000	.523	.000	.768	.970

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	10	180	0	0	190	0	0	0	0	0	0	155	12	0	167	5	0	5	0	10	367
04:45 PM	13	188	0	0	201	0	0	0	0	0	0	113	13	0	126	13	0	9	0	22	349
05:00 PM	10	184	0	0	194	0	0	0	0	0	0	151	12	0	163	9	0	9	0	18	375
05:15 PM	9	203	0	0	212	0	0	0	0	0	0	97	16	0	113	12	0	8	0	20	345
Total Volume	42	755	0	0	797	0	0	0	0	0	0	516	53	0	569	39	0	31	0	70	1436
% App. Total	5.3	94.7	0	0		0	0	0	0	0	0	90.7	9.3	0		55.7	0	44.3	0		
PHF	.808	.930	.000	.000	.940	.000	.000	.000	.000	.000	.000	.832	.828	.000	.852	.750	.000	.861	.000	.795	.957



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 6 - CSAH 50 & Ipava Ave
Site Code : 22712026
Start Date : 12/13/2012
Page No : 1

CSAH 50 & Ipava Ave
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	Ipava Ave From North					CSAH 50 From East					Ipava Ave From South					CSAH 50 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
06:00 AM	0	0	0	0	0	0	19	1	0	20	2	0	3	0	5	0	9	0	0	9	34
06:15 AM	0	1	1	0	2	0	26	1	0	27	1	2	2	0	5	0	13	0	1	14	48
06:30 AM	0	0	0	0	0	0	34	0	0	34	0	0	6	0	6	0	31	0	1	32	72
06:45 AM	0	1	1	0	2	0	40	1	0	41	0	1	8	0	9	1	46	2	0	49	101
Total	0	2	2	0	4	0	119	3	0	122	3	3	19	0	25	1	99	2	2	104	255
07:00 AM	1	3	0	0	4	0	78	2	0	80	4	4	16	0	24	1	24	0	0	25	133
07:15 AM	2	1	1	0	4	4	106	0	0	110	3	7	14	0	24	2	42	1	0	45	183
07:30 AM	1	4	1	0	6	6	107	2	0	115	6	10	24	0	40	6	62	1	0	69	230
07:45 AM	4	4	3	0	11	9	117	3	0	129	2	18	30	0	50	14	70	3	0	87	277
Total	8	12	5	0	25	19	408	7	0	434	15	39	84	0	138	23	198	5	0	226	823
08:00 AM	2	4	7	0	13	13	152	1	0	166	8	21	25	0	54	12	64	7	0	83	316
08:15 AM	4	5	3	0	12	12	133	2	0	147	8	16	22	0	46	23	84	9	0	116	321
08:30 AM	4	4	5	0	13	7	126	4	0	137	7	9	29	0	45	17	65	5	0	87	282
08:45 AM	5	15	12	0	32	15	109	4	0	128	13	22	22	0	57	35	110	13	0	158	375
Total	15	28	27	0	70	47	520	11	0	578	36	68	98	0	202	87	323	34	0	444	1294
09:00 AM	4	5	8	0	17	8	123	6	0	137	6	5	23	0	34	5	67	1	0	73	261
09:15 AM	4	4	7	0	15	11	115	1	0	127	7	11	11	0	29	7	68	2	0	77	248
09:30 AM	0	5	6	0	11	8	88	4	0	100	7	7	25	0	39	14	61	1	0	76	226
09:45 AM	1	12	10	0	23	7	81	4	0	92	13	19	21	0	53	5	67	0	0	72	240
Total	9	26	31	0	66	34	407	15	0	456	33	42	80	0	155	31	263	4	0	298	975
10:00 AM	2	3	6	0	11	8	110	4	0	122	4	8	10	0	22	4	82	3	0	89	244
10:15 AM	2	7	2	0	11	5	127	1	0	133	2	7	10	0	19	4	70	2	0	76	239
10:30 AM	1	6	4	0	11	9	82	4	0	95	6	2	8	0	16	8	52	0	0	60	182
10:45 AM	0	4	4	0	8	7	85	3	0	95	3	6	9	0	18	9	69	1	0	79	200
Total	5	20	16	0	41	29	404	12	0	445	15	23	37	0	75	25	273	6	0	304	865
11:00 AM	2	3	5	0	10	3	73	1	0	77	3	2	6	0	11	2	53	1	0	56	154
11:15 AM	0	3	3	0	6	2	92	3	0	97	3	3	11	0	17	11	50	0	0	61	181
11:30 AM	1	2	3	0	6	3	83	5	0	91	10	0	11	0	21	8	54	1	0	63	181
11:45 AM	3	3	1	0	7	3	82	1	0	86	6	2	6	0	14	12	68	2	0	82	189
Total	6	11	12	0	29	11	330	10	0	351	22	7	34	0	63	33	225	4	0	262	705
12:00 PM	0	1	10	0	11	5	88	3	0	96	3	8	6	0	17	4	79	1	0	84	208
12:15 PM	3	2	9	0	14	6	106	4	0	116	8	8	8	0	24	7	92	2	0	101	255
12:30 PM	1	4	4	0	9	7	98	7	0	112	9	6	7	0	22	8	75	1	0	84	227



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 6 - CSAH 50 & Ipava Ave
Site Code : 22712026
Start Date : 12/13/2012
Page No : 2

CSAH 50 & Ipava Ave
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	Ipava Ave From North					CSAH 50 From East					Ipava Ave From South					CSAH 50 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
12:45 PM	1	6	7	0	14	6	91	3	0	100	4	4	10	0	18	15	90	2	0	107	239
Total	5	13	30	0	48	24	383	17	0	424	24	26	31	0	81	34	336	6	0	376	929
01:00 PM	1	5	6	0	12	4	105	1	0	110	2	3	7	0	12	8	89	1	0	98	232
01:15 PM	4	7	7	0	18	10	91	2	0	103	4	11	7	0	22	8	81	3	0	92	235
01:30 PM	2	5	3	0	10	6	101	9	0	116	4	10	10	0	24	18	92	0	0	110	260
01:45 PM	1	8	4	0	13	0	110	1	0	111	5	4	14	0	23	11	105	0	0	116	263
Total	8	25	20	0	53	20	407	13	0	440	15	28	38	0	81	45	367	4	0	416	990
02:00 PM	0	7	12	0	19	6	103	5	0	114	4	3	8	0	15	9	106	0	0	115	263
02:15 PM	0	4	10	0	14	5	95	3	0	103	3	4	6	0	13	12	114	3	0	129	259
02:30 PM	3	7	5	0	15	2	86	0	0	88	4	9	7	0	20	15	97	2	0	114	237
02:45 PM	2	6	7	0	15	5	96	3	0	104	3	10	22	0	35	8	112	1	0	121	275
Total	5	24	34	0	63	18	380	11	0	409	14	26	43	0	83	44	429	6	0	479	1034
03:00 PM	1	3	4	0	8	7	88	1	0	96	0	5	7	0	12	19	120	0	0	139	255
03:15 PM	4	8	11	0	23	10	81	1	0	92	5	4	11	0	20	22	129	7	0	158	293
03:30 PM	7	11	10	0	28	21	108	9	1	139	9	22	12	0	43	19	123	7	0	149	359
03:45 PM	21	17	23	0	61	12	107	5	0	124	11	22	40	0	73	20	116	7	0	143	401
Total	33	39	48	0	120	50	384	16	1	451	25	53	70	0	148	80	488	21	0	589	1308
04:00 PM	5	11	11	0	27	9	105	11	0	125	5	16	17	0	38	25	99	5	0	129	319
04:15 PM	5	21	13	0	39	11	132	7	0	150	3	18	14	0	35	23	154	1	0	178	402
04:30 PM	4	15	8	0	27	8	115	2	1	126	3	12	24	0	39	15	141	1	0	157	349
04:45 PM	4	12	10	0	26	5	103	2	1	111	13	14	22	0	49	18	144	9	0	171	357
Total	18	59	42	0	119	33	455	22	2	512	24	60	77	0	161	81	538	16	0	635	1427
05:00 PM	5	11	11	0	27	18	151	6	0	175	11	12	23	0	46	29	149	7	2	187	435
05:15 PM	4	21	9	0	34	7	117	3	0	127	11	4	17	0	32	32	139	4	0	175	368
05:30 PM	1	16	8	0	25	15	166	4	0	185	17	4	8	0	29	22	165	5	2	194	433
05:45 PM	2	15	9	0	26	23	107	7	0	137	13	16	21	0	50	29	179	14	0	222	435
Total	12	63	37	0	112	63	541	20	0	624	52	36	69	0	157	112	632	30	4	778	1671
06:00 PM	1	11	11	0	23	18	152	10	0	180	6	15	17	0	38	32	141	17	0	190	431
06:15 PM	6	19	9	0	34	10	112	9	0	131	9	16	14	0	39	36	172	14	0	222	426
06:30 PM	7	20	10	0	37	17	140	5	0	162	4	17	19	0	40	24	155	7	0	186	425
06:45 PM	8	16	7	0	31	15	91	8	0	114	6	20	20	0	46	18	157	9	0	184	375
Total	22	66	37	0	125	60	495	32	0	587	25	68	70	0	163	110	625	47	0	782	1657



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 6 - CSAH 50 & Ipava Ave

Site Code : 22712026

Start Date : 12/13/2012

Page No : 3

CSAH 50 & Ipava Ave
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	Ipava Ave From North					CSAH 50 From East					Ipava Ave From South					CSAH 50 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
07:00 PM	6	28	12	0	46	7	100	5	0	112	8	17	15	0	40	27	112	11	0	150	348
07:15 PM	7	13	8	0	28	11	82	5	0	98	8	14	8	0	30	19	107	8	0	134	290
07:30 PM	6	15	10	0	31	17	90	4	0	111	5	13	16	0	34	17	134	21	0	172	348
07:45 PM	16	6	12	0	34	15	71	3	0	89	4	12	8	0	24	18	85	14	0	117	264
Total	35	62	42	0	139	50	343	17	0	410	25	56	47	0	128	81	438	54	0	573	1250
Grand Total	181	450	383	0	1014	458	5576	206	3	6243	328	535	797	0	1660	787	5234	239	6	6266	15183
Apprch %	17.9	44.4	37.8	0		7.3	89.3	3.3	0		19.8	32.2	48	0		12.6	83.5	3.8	0.1		
Total %	1.2	3	2.5	0	6.7	3	36.7	1.4	0	41.1	2.2	3.5	5.2	0	10.9	5.2	34.5	1.6	0	41.3	
Cars	177	433	371	0	981	438	5471	202	3	6114	319	515	777	0	1611	769	5126	235	6	6136	14842
% Cars	97.8	96.2	96.9	0	96.7	95.6	98.1	98.1	100	97.9	97.3	96.3	97.5	0	97	97.7	97.9	98.3	100	97.9	97.8
Heavy Vehicles	4	17	12	0	33	20	105	4	0	129	9	20	20	0	49	18	108	4	0	130	341
% Heavy Vehicles	2.2	3.8	3.1	0	3.3	4.4	1.9	1.9	0	2.1	2.7	3.7	2.5	0	3	2.3	2.1	1.7	0	2.1	2.2



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

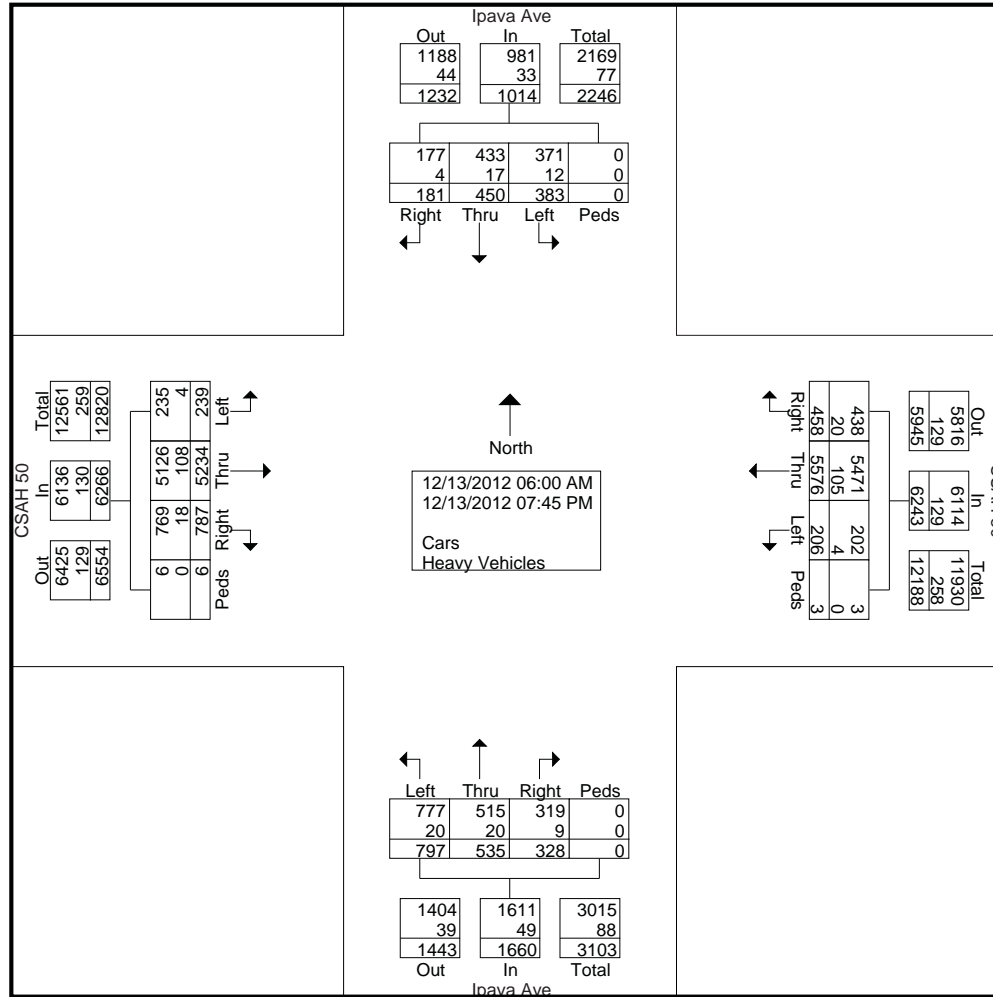
File Name : 6 - CSAH 50 & Ipava Ave

Site Code : 22712026

Start Date : 12/13/2012

Page No : 4

CSAH 50 & Ipava Ave
Lakeville, MN





Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 6 - CSAH 50 & Ipava Ave
Site Code : 22712026
Start Date : 12/13/2012
Page No : 5

CSAH 50 & Ipava Ave
Lakeville, MN

Start Time	Ipava Ave From North					CSAH 50 From East					Ipava Ave From South					CSAH 50 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:00 AM																					
08:00 AM	2	4	7	0	13	13	152	1	0	166	8	21	25	0	54	12	64	7	0	83	316
08:15 AM	4	5	3	0	12	12	133	2	0	147	8	16	22	0	46	23	84	9	0	116	321
08:30 AM	4	4	5	0	13	7	126	4	0	137	7	9	29	0	45	17	65	5	0	87	282
08:45 AM	5	15	12	0	32	15	109	4	0	128	13	22	22	0	57	35	110	13	0	158	375
Total Volume	15	28	27	0	70	47	520	11	0	578	36	68	98	0	202	87	323	34	0	444	1294
% App. Total	21.4	40	38.6	0		8.1	90	1.9	0		17.8	33.7	48.5	0		19.6	72.7	7.7	0		
PHF	.750	.467	.563	.000	.547	.783	.855	.688	.000	.870	.692	.773	.845	.000	.886	.621	.734	.654	.000	.703	.863

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	1	5	6	0	12	4	105	1	0	110	2	3	7	0	12	8	89	1	0	98	232
01:15 PM	4	7	7	0	18	10	91	2	0	103	4	11	7	0	22	8	81	3	0	92	235
01:30 PM	2	5	3	0	10	6	101	9	0	116	4	10	10	0	24	18	92	0	0	110	260
01:45 PM	1	8	4	0	13	0	110	1	0	111	5	4	14	0	23	11	105	0	0	116	263
Total Volume	8	25	20	0	53	20	407	13	0	440	15	28	38	0	81	45	367	4	0	416	990
% App. Total	15.1	47.2	37.7	0		4.5	92.5	3	0		18.5	34.6	46.9	0		10.8	88.2	1	0		
PHF	.500	.781	.714	.000	.736	.500	.925	.361	.000	.948	.750	.636	.679	.000	.844	.625	.874	.333	.000	.897	.941

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:30 PM																					
05:30 PM	1	16	8	0	25	15	166	4	0	185	17	4	8	0	29	22	165	5	2	194	433
05:45 PM	2	15	9	0	26	23	107	7	0	137	13	16	21	0	50	29	179	14	0	222	435
06:00 PM	1	11	11	0	23	18	152	10	0	180	6	15	17	0	38	32	141	17	0	190	431
06:15 PM	6	19	9	0	34	10	112	9	0	131	9	16	14	0	39	36	172	14	0	222	426
Total Volume	10	61	37	0	108	66	537	30	0	633	45	51	60	0	156	119	657	50	2	828	1725
% App. Total	9.3	56.5	34.3	0		10.4	84.8	4.7	0		28.8	32.7	38.5	0		14.4	79.3	6	0.2		
PHF	.417	.803	.841	.000	.794	.717	.809	.750	.000	.855	.662	.797	.714	.000	.780	.826	.918	.735	.250	.932	.991



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 7 - CSAH 50 & CSAH 9 (Dodd Blvd)
Site Code : 22712027
Start Date : 12/13/2012
Page No : 1

CSAH 50 & CSAH 9 (Dodd Blvd)
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 9 (Dodd) From North					CSAH 50 From East					CSAH 9 (Dodd) From South					CSAH 50 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
06:00 AM	6	17	3	0	26	12	42	0	0	54	4	23	24	0	51	7	11	0	0	18	149
06:15 AM	8	21	12	0	41	10	58	3	0	71	3	31	25	0	59	13	19	2	0	34	205
06:30 AM	11	18	8	0	37	5	70	7	0	82	9	37	28	0	74	7	38	3	0	48	241
06:45 AM	10	37	13	0	60	22	65	6	1	94	16	47	36	0	99	17	39	3	0	59	312
Total	35	93	36	0	164	49	235	16	1	301	32	138	113	0	283	44	107	8	0	159	907
07:00 AM	5	28	19	0	52	17	85	6	0	108	21	45	49	0	115	11	43	7	0	61	336
07:15 AM	5	52	13	0	70	16	76	7	0	99	20	58	36	0	114	13	45	6	0	64	347
07:30 AM	11	41	18	0	70	13	68	16	0	97	12	56	33	0	101	17	44	5	0	66	334
07:45 AM	7	49	16	0	72	23	55	17	0	95	35	50	27	0	112	26	54	9	0	89	368
Total	28	170	66	0	264	69	284	46	0	399	88	209	145	0	442	67	186	27	0	280	1385
08:00 AM	4	34	19	0	57	18	71	16	0	105	26	50	35	0	111	15	52	14	0	81	354
08:15 AM	7	45	18	0	70	29	67	13	0	109	10	35	29	0	74	10	37	14	0	61	314
08:30 AM	9	45	13	0	67	12	49	9	0	70	9	46	32	0	87	18	33	10	0	61	285
08:45 AM	2	33	17	0	52	20	51	8	0	79	19	57	32	0	108	11	40	13	0	64	303
Total	22	157	67	0	246	79	238	46	0	363	64	188	128	0	380	54	162	51	0	267	1256
09:00 AM	10	38	21	0	69	28	63	4	0	95	11	57	31	0	99	14	36	15	0	65	328
09:15 AM	13	57	32	0	102	34	57	8	0	99	9	65	44	0	118	17	30	8	0	55	374
09:30 AM	6	34	13	0	53	15	55	10	0	80	8	47	17	0	72	16	34	4	0	54	259
09:45 AM	5	26	13	0	44	18	47	10	0	75	16	27	26	0	69	8	52	9	0	69	257
Total	34	155	79	0	268	95	222	32	0	349	44	196	118	0	358	55	152	36	0	243	1218
10:00 AM	5	24	11	0	40	15	51	7	0	73	14	27	13	0	54	11	36	11	0	58	225
10:15 AM	12	25	13	0	50	7	55	8	0	70	19	35	19	2	75	8	33	8	0	49	244
10:30 AM	14	22	19	0	55	11	62	12	0	85	14	35	13	0	62	13	35	7	0	55	257
10:45 AM	7	24	14	0	45	11	55	11	0	77	13	33	7	0	53	12	40	9	0	61	236
Total	38	95	57	0	190	44	223	38	0	305	60	130	52	2	244	44	144	35	0	223	962
11:00 AM	4	32	12	0	48	17	54	14	1	86	14	31	19	0	64	16	67	8	0	91	289
11:15 AM	3	40	23	0	66	14	78	15	0	107	11	38	28	0	77	11	58	9	0	78	328
11:30 AM	4	54	21	0	79	12	57	15	0	84	20	55	32	0	107	19	50	12	0	81	351
11:45 AM	7	54	9	0	70	16	54	12	0	82	14	46	22	0	82	29	50	8	0	87	321
Total	18	180	65	0	263	59	243	56	1	359	59	170	101	0	330	75	225	37	0	337	1289
12:00 PM	8	41	21	0	70	20	69	15	1	105	14	46	28	0	88	22	58	3	0	83	346
12:15 PM	2	49	23	0	74	16	50	11	1	78	13	43	27	0	83	15	54	7	0	76	311
12:30 PM	6	37	23	0	66	21	75	8	0	104	4	41	22	0	67	26	68	7	0	101	338



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 7 - CSAH 50 & CSAH 9 (Dodd Blvd)
Site Code : 22712027
Start Date : 12/13/2012
Page No : 2

CSAH 50 & CSAH 9 (Dodd Blvd)
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 9 (Dodd) From North					CSAH 50 From East					CSAH 9 (Dodd) From South					CSAH 50 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
12:45 PM	4	49	32	0	85	13	67	10	0	90	8	45	25	0	78	19	65	8	0	92	345
Total	20	176	99	0	295	70	261	44	2	377	39	175	102	0	316	82	245	25	0	352	1340
01:00 PM	7	47	10	0	64	12	58	12	0	82	14	30	25	0	69	24	73	8	0	105	320
01:15 PM	9	37	19	0	65	13	56	15	0	84	9	37	18	0	64	37	57	16	0	110	323
01:30 PM	10	43	35	0	88	9	54	8	0	71	13	47	10	0	70	15	58	13	0	86	315
01:45 PM	10	36	17	0	63	10	56	13	0	79	10	32	14	0	56	21	71	5	0	97	295
Total	36	163	81	0	280	44	224	48	0	316	46	146	67	0	259	97	259	42	0	398	1253
02:00 PM	7	31	15	0	53	14	56	19	0	89	29	23	16	0	68	33	77	9	0	119	329
02:15 PM	3	35	15	0	53	21	53	14	0	88	15	34	16	0	65	18	88	16	0	122	328
02:30 PM	11	57	27	0	95	14	84	28	0	126	17	48	18	0	83	30	72	15	0	117	421
02:45 PM	3	49	35	0	87	15	81	18	0	114	12	46	27	0	85	21	88	18	0	127	413
Total	24	172	92	0	288	64	274	79	0	417	73	151	77	0	301	102	325	58	0	485	1491
03:00 PM	5	65	24	0	94	18	78	19	0	115	19	48	22	0	89	19	61	14	0	94	392
03:15 PM	6	57	32	0	95	15	91	23	0	129	16	59	27	0	102	34	92	13	0	139	465
03:30 PM	8	53	22	1	84	13	55	14	0	82	16	48	39	1	104	17	66	17	0	100	370
03:45 PM	5	53	20	0	78	18	59	22	0	99	17	58	23	0	98	20	94	19	1	134	409
Total	24	228	98	1	351	64	283	78	0	425	68	213	111	1	393	90	313	63	1	467	1636
04:00 PM	9	81	35	1	126	8	81	15	0	104	17	68	34	1	120	40	89	26	0	155	505
04:15 PM	13	74	32	1	120	9	69	38	0	116	21	64	40	0	125	31	89	15	1	136	497
04:30 PM	10	66	21	0	97	7	67	35	0	109	16	67	51	0	134	37	85	24	0	146	486
04:45 PM	7	58	21	0	86	9	64	53	0	126	23	67	25	0	115	37	97	18	0	152	479
Total	39	279	109	2	429	33	281	141	0	455	77	266	150	1	494	145	360	83	1	589	1967
05:00 PM	10	72	15	0	97	13	79	28	0	120	15	59	43	1	118	26	98	16	0	140	475
05:15 PM	8	66	18	0	92	12	72	22	0	106	18	45	26	0	89	48	101	17	0	166	453
05:30 PM	8	58	27	0	93	9	92	29	5	135	20	60	42	5	127	44	91	11	3	149	504
05:45 PM	11	69	20	0	100	12	53	26	0	91	13	80	31	0	124	41	103	24	0	168	483
Total	37	265	80	0	382	46	296	105	5	452	66	244	142	6	458	159	393	68	3	623	1915
06:00 PM	3	54	17	0	74	11	66	20	0	97	19	50	32	0	101	34	100	7	0	141	413
06:15 PM	10	52	12	1	75	6	34	10	0	50	26	55	18	1	100	22	76	10	0	108	333
06:30 PM	4	64	18	0	86	3	57	14	0	74	33	42	19	0	94	27	106	10	0	143	397
06:45 PM	7	55	13	0	75	9	39	13	0	61	16	41	13	0	70	33	67	12	1	113	319
Total	24	225	60	1	310	29	196	57	0	282	94	188	82	1	365	116	349	39	1	505	1462



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 7 - CSAH 50 & CSAH 9 (Dodd Blvd)
Site Code : 22712027
Start Date : 12/13/2012
Page No : 3

CSAH 50 & CSAH 9 (Dodd Blvd)
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	CSAH 9 (Dodd) From North					CSAH 50 From East					CSAH 9 (Dodd) From South					CSAH 50 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
07:00 PM	9	84	7	0	100	9	62	11	2	84	16	36	7	3	62	22	62	4	0	88	334
07:15 PM	5	62	11	0	78	11	42	16	0	69	5	31	11	0	47	20	58	7	0	85	279
07:30 PM	6	48	11	0	65	7	25	13	0	45	4	36	21	4	65	22	38	8	0	68	243
07:45 PM	3	54	12	0	69	10	31	6	0	47	6	31	7	5	49	25	46	5	4	80	245
Total	23	248	41	0	312	37	160	46	2	245	31	134	46	12	223	89	204	24	4	321	1101
Grand Total	402	2606	1030	4	4042	782	3420	832	11	5045	841	2548	1434	23	4846	1219	3424	596	10	5249	19182
Apprch %	9.9	64.5	25.5	0.1		15.5	67.8	16.5	0.2		17.4	52.6	29.6	0.5		23.2	65.2	11.4	0.2		
Total %	2.1	13.6	5.4	0	21.1	4.1	17.8	4.3	0.1	26.3	4.4	13.3	7.5	0.1	25.3	6.4	17.9	3.1	0.1	27.4	
Cars	391	2580	1020	4	3995	771	3388	818	11	4988	826	2505	1409	22	4762	1192	3371	584	7	5154	18899
% Cars	97.3	99	99	100	98.8	98.6	99.1	98.3	100	98.9	98.2	98.3	98.3	95.7	98.3	97.8	98.5	98	70	98.2	98.5
Heavy Vehicles	11	26	10	0	47	11	32	14	0	57	15	43	25	1	84	27	53	12	3	95	283
% Heavy Vehicles	2.7	1	1	0	1.2	1.4	0.9	1.7	0	1.1	1.8	1.7	1.7	4.3	1.7	2.2	1.5	2	30	1.8	1.5



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

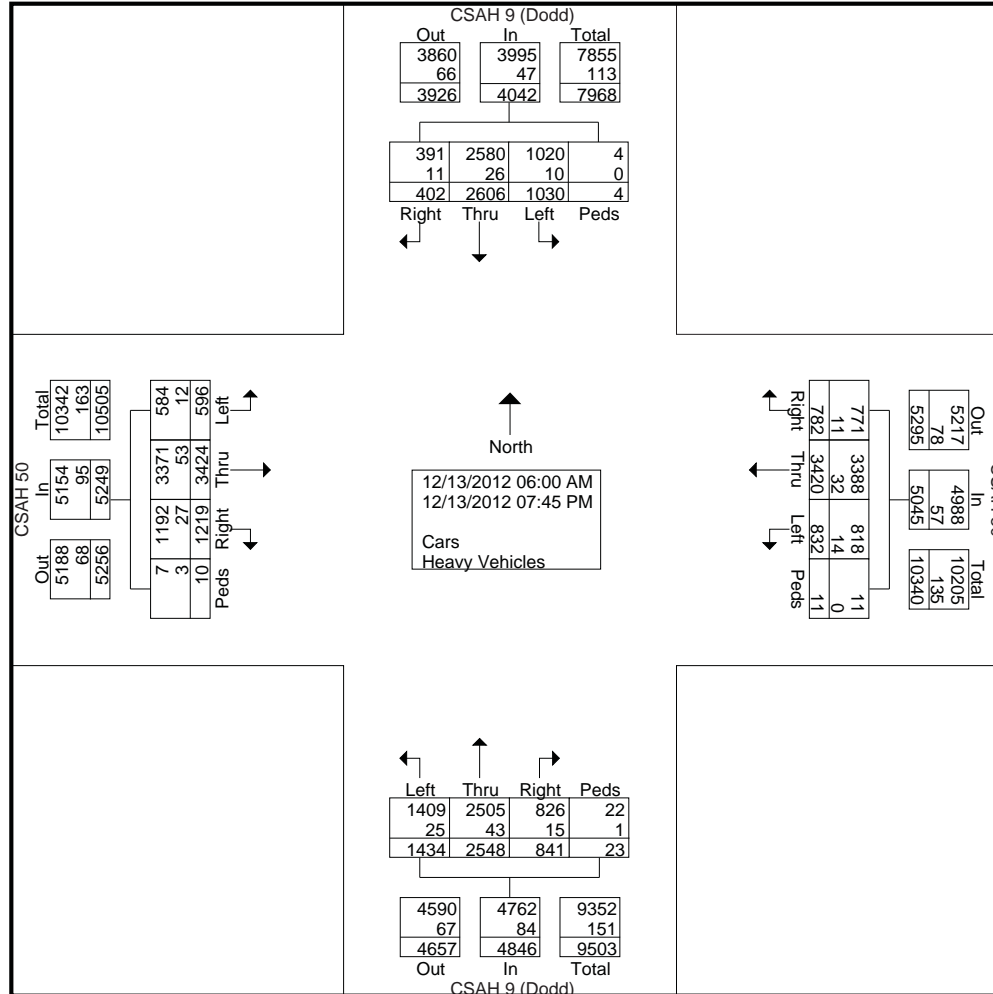
File Name : 7 - CSAH 50 & CSAH 9 (Dodd Blvd)

Site Code : 22712027

Start Date : 12/13/2012

Page No : 4

CSAH 50 & CSAH 9 (Dodd Blvd)
Lakeville, MN





Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 7 - CSAH 50 & CSAH 9 (Dodd Blvd)
Site Code : 22712027
Start Date : 12/13/2012
Page No : 5

CSAH 50 & CSAH 9 (Dodd Blvd) Lakeville, MN

Start Time	CSAH 9 (Dodd) From North					CSAH 50 From East					CSAH 9 (Dodd) From South					CSAH 50 From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	5	52	13	0	70	16	76	7	0	99	20	58	36	0	114	13	45	6	0	64	347
07:30 AM	11	41	18	0	70	13	68	16	0	97	12	56	33	0	101	17	44	5	0	66	334
07:45 AM	7	49	16	0	72	23	55	17	0	95	35	50	27	0	112	26	54	9	0	89	368
08:00 AM	4	34	19	0	57	18	71	16	0	105	26	50	35	0	111	15	52	14	0	81	354
Total Volume	27	176	66	0	269	70	270	56	0	396	93	214	131	0	438	71	195	34	0	300	1403
% App. Total	10	65.4	24.5	0		17.7	68.2	14.1	0		21.2	48.9	29.9	0		23.7	65	11.3	0		
PHF	.614	.846	.868	.000	.934	.761	.888	.824	.000	.943	.664	.922	.910	.000	.961	.683	.903	.607	.000	.843	.953
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:15 AM																					
11:15 AM	3	40	23	0	66	14	78	15	0	107	11	38	28	0	77	11	58	9	0	78	328
11:30 AM	4	54	21	0	79	12	57	15	0	84	20	55	32	0	107	19	50	12	0	81	351
11:45 AM	7	54	9	0	70	16	54	12	0	82	14	46	22	0	82	29	50	8	0	87	321
12:00 PM	8	41	21	0	70	20	69	15	1	105	14	46	28	0	88	22	58	3	0	83	346
Total Volume	22	189	74	0	285	62	258	57	1	378	59	185	110	0	354	81	216	32	0	329	1346
% App. Total	7.7	66.3	26	0		16.4	68.3	15.1	0.3		16.7	52.3	31.1	0		24.6	65.7	9.7	0		
PHF	.688	.875	.804	.000	.902	.775	.827	.950	.250	.883	.738	.841	.859	.000	.827	.698	.931	.667	.000	.945	.959
Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:00 PM																					
04:00 PM	9	81	35	1	126	8	81	15	0	104	17	68	34	1	120	40	89	26	0	155	505
04:15 PM	13	74	32	1	120	9	69	38	0	116	21	64	40	0	125	31	89	15	1	136	497
04:30 PM	10	66	21	0	97	7	67	35	0	109	16	67	51	0	134	37	85	24	0	146	486
04:45 PM	7	58	21	0	86	9	64	53	0	126	23	67	25	0	115	37	97	18	0	152	479
Total Volume	39	279	109	2	429	33	281	141	0	455	77	266	150	1	494	145	360	83	1	589	1967
% App. Total	9.1	65	25.4	0.5		7.3	61.8	31	0		15.6	53.8	30.4	0.2		24.6	61.1	14.1	0.2		
PHF	.750	.861	.779	.500	.851	.917	.867	.665	.000	.903	.837	.978	.735	.250	.922	.906	.928	.798	.250	.950	.974



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 8 - Ipava Ave & 192nd St

Site Code : 22712028

Start Date : 12/13/2012

Page No : 1

Ipava Ave & 192nd St
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	Ipava Ave From North					192nd St From East					Ipava Ave From South					192nd St From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
06:00 AM	3	1	3	0	7	0	6	0	0	6	0	2	0	0	2	0	1	1	0	2	17
06:15 AM	1	6	2	0	9	1	2	0	0	3	0	7	0	0	7	3	2	0	0	5	24
06:30 AM	2	16	2	0	20	4	4	0	0	8	0	13	2	0	15	4	1	3	0	8	51
06:45 AM	4	51	8	0	63	7	4	2	0	13	2	58	1	0	61	14	4	5	0	23	160
Total	10	74	15	0	99	12	16	2	0	30	2	80	3	0	85	21	8	9	0	38	252
07:00 AM	8	28	6	0	42	16	10	0	0	26	0	40	4	0	44	14	6	18	0	38	150
07:15 AM	6	34	7	0	47	4	5	1	0	10	1	41	3	0	45	12	5	14	0	31	133
07:30 AM	4	77	20	1	102	2	5	1	0	8	4	25	2	0	31	13	10	7	0	30	171
07:45 AM	6	179	74	0	259	2	3	2	1	8	14	94	12	0	120	21	18	10	0	49	436
Total	24	318	107	1	450	24	23	4	1	52	19	200	21	0	240	60	39	49	0	148	890
08:00 AM	6	18	14	0	38	9	4	2	0	15	3	43	6	0	52	2	4	4	0	10	115
08:15 AM	3	17	6	0	26	2	6	0	0	8	1	23	1	0	25	3	4	1	0	8	67
08:30 AM	1	17	7	0	25	3	5	1	0	9	1	12	2	0	15	2	3	3	1	9	58
08:45 AM	1	30	15	0	46	4	2	1	0	7	2	23	0	0	25	2	5	8	0	15	93
Total	11	82	42	0	135	18	17	4	0	39	7	101	9	0	117	9	16	16	1	42	333
09:00 AM	6	10	4	0	20	3	6	0	0	9	1	25	2	0	28	5	6	10	0	21	78
09:15 AM	3	15	6	1	25	6	5	0	0	11	0	15	2	0	17	2	6	9	0	17	70
09:30 AM	2	8	8	1	19	2	5	0	0	7	0	11	1	0	12	1	5	2	0	8	46
09:45 AM	4	12	3	1	20	3	1	1	0	5	1	12	0	0	13	1	3	3	0	7	45
Total	15	45	21	3	84	14	17	1	0	32	2	63	5	0	70	9	20	24	0	53	239
10:00 AM	2	6	2	0	10	4	4	1	0	9	0	9	0	1	10	2	4	2	0	8	37
10:15 AM	3	6	2	1	12	5	2	1	1	9	1	8	1	0	10	1	2	1	0	4	35
10:30 AM	3	6	6	0	15	3	6	2	0	11	1	3	1	0	5	2	1	1	0	4	35
10:45 AM	2	16	2	0	20	6	1	2	1	10	1	9	1	0	11	0	4	5	0	9	50
Total	10	34	12	1	57	18	13	6	2	39	3	29	3	1	36	5	11	9	0	25	157
11:00 AM	1	8	1	0	10	4	7	0	0	11	1	12	2	0	15	2	1	3	0	6	42
11:15 AM	1	12	4	0	17	2	1	2	0	5	0	12	2	0	14	0	6	5	0	11	47
11:30 AM	2	11	4	0	17	5	2	0	0	7	0	13	3	0	16	1	5	3	0	9	49
11:45 AM	3	6	5	0	14	2	6	0	0	8	0	10	1	0	11	2	7	2	0	11	44
Total	7	37	14	0	58	13	16	2	0	31	1	47	8	0	56	5	19	13	0	37	182
12:00 PM	3	10	4	0	17	6	1	0	1	8	0	12	0	0	12	2	1	1	0	4	41
12:15 PM	2	14	4	0	20	7	1	0	0	8	1	23	0	0	24	3	2	4	0	9	61
12:30 PM	4	14	5	0	23	4	2	0	0	6	0	21	5	0	26	1	2	3	0	6	61



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 8 - Ipava Ave & 192nd St

Site Code : 22712028

Start Date : 12/13/2012

Page No : 2

Ipava Ave & 192nd St
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	Ipava Ave From North					192nd St From East					Ipava Ave From South					192nd St From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
12:45 PM	3	11	3	0	17	3	5	1	0	9	1	5	2	1	9	1	5	1	0	7	42
Total	12	49	16	0	77	20	9	1	1	31	2	61	7	1	71	7	10	9	0	26	205
01:00 PM	0	15	3	0	18	5	4	0	1	10	0	15	3	0	18	0	2	5	0	7	53
01:15 PM	4	15	4	0	23	6	1	2	0	9	2	13	1	0	16	3	5	4	0	12	60
01:30 PM	4	9	4	0	17	11	3	1	0	15	0	24	2	0	26	3	3	3	0	9	67
01:45 PM	7	8	3	0	18	9	4	1	1	15	0	23	3	0	26	0	2	5	0	7	66
Total	15	47	14	0	76	31	12	4	2	49	2	75	9	0	86	6	12	17	0	35	246
02:00 PM	7	18	8	0	33	3	2	2	0	7	0	15	2	0	17	5	7	13	0	25	82
02:15 PM	3	26	8	0	37	2	3	6	0	11	2	13	4	0	19	4	9	4	0	17	84
02:30 PM	9	42	5	0	56	31	18	13	0	62	1	46	12	0	59	9	1	6	0	16	193
02:45 PM	4	36	3	0	43	49	4	5	0	58	3	122	18	0	143	4	5	14	1	24	268
Total	23	122	24	0	169	85	27	26	0	138	6	196	36	0	238	22	22	37	1	82	627
03:00 PM	10	33	6	0	49	10	8	1	0	19	0	58	5	0	63	5	5	11	0	21	152
03:15 PM	4	35	5	0	44	10	4	3	0	17	2	43	2	0	47	4	10	4	0	18	126
03:30 PM	8	35	7	0	50	12	2	0	0	14	0	47	7	0	54	1	8	5	2	16	134
03:45 PM	9	26	3	0	38	7	7	3	4	21	3	39	1	0	43	3	13	8	0	24	126
Total	31	129	21	0	181	39	21	7	4	71	5	187	15	0	207	13	36	28	2	79	538
04:00 PM	10	32	9	0	51	9	9	3	0	21	1	33	3	0	37	1	5	4	0	10	119
04:15 PM	9	33	2	0	44	5	3	1	1	10	0	25	1	0	26	3	7	2	0	12	92
04:30 PM	5	37	9	0	51	6	8	2	0	16	0	18	4	0	22	3	4	1	1	9	98
04:45 PM	11	60	2	0	73	7	7	2	1	17	0	31	5	0	36	6	6	8	0	20	146
Total	35	162	22	0	219	27	27	8	2	64	1	107	13	0	121	13	22	15	1	51	455
05:00 PM	3	33	3	0	39	12	6	0	0	18	0	36	3	0	39	2	10	14	0	26	122
05:15 PM	11	38	8	0	57	5	3	2	0	10	0	29	0	0	29	0	7	12	0	19	115
05:30 PM	6	35	12	0	53	6	7	2	0	15	0	31	1	0	32	2	5	15	0	22	122
05:45 PM	7	56	10	0	73	5	3	1	0	9	3	37	3	0	43	3	13	5	0	21	146
Total	27	162	33	0	222	28	19	5	0	52	3	133	7	0	143	7	35	46	0	88	505
06:00 PM	5	30	12	0	47	8	8	2	0	18	1	44	6	0	51	1	8	5	0	14	130
06:15 PM	18	30	9	0	57	5	3	3	0	11	4	26	0	0	30	3	5	6	0	14	112
06:30 PM	6	44	9	0	59	3	3	4	0	10	2	40	7	0	49	1	11	7	0	19	137
06:45 PM	3	26	3	0	32	4	1	2	7	14	1	30	1	0	32	6	5	11	0	22	100
Total	32	130	33	0	195	20	15	11	7	53	8	140	14	0	162	11	29	29	0	69	479



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 8 - Ipava Ave & 192nd St
Site Code : 22712028
Start Date : 12/13/2012
Page No : 3

Ipava Ave & 192nd St
Lakeville, MN

Groups Printed- Cars - Heavy Vehicles

Start Time	Ipava Ave From North					192nd St From East					Ipava Ave From South					192nd St From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
07:00 PM	7	35	6	0	48	6	2	3	5	16	0	40	3	0	43	0	5	5	0	10	117
07:15 PM	11	38	6	0	55	5	3	2	0	10	2	25	2	0	29	8	8	2	0	18	112
07:30 PM	8	21	5	0	34	2	3	2	0	7	1	29	3	0	33	0	3	5	0	8	82
07:45 PM	3	19	5	0	27	4	3	0	0	7	1	25	3	0	29	3	3	8	0	14	77
Total	29	113	22	0	164	17	11	7	5	40	4	119	11	0	134	11	19	20	0	50	388
Grand Total	281	1504	396	5	2186	366	243	88	24	721	65	1538	161	2	1766	199	298	321	5	823	5496
Apprch %	12.9	68.8	18.1	0.2		50.8	33.7	12.2	3.3		3.7	87.1	9.1	0.1		24.2	36.2	39	0.6		
Total %	5.1	27.4	7.2	0.1	39.8	6.7	4.4	1.6	0.4	13.1	1.2	28	2.9	0	32.1	3.6	5.4	5.8	0.1	15	
Cars	276	1449	394	3	2122	355	241	78	20	694	63	1450	147	1	1661	189	293	305	4	791	5268
% Cars	98.2	96.3	99.5	60	97.1	97	99.2	88.6	83.3	96.3	96.9	94.3	91.3	50	94.1	95	98.3	95	80	96.1	95.9
Heavy Vehicles	5	55	2	2	64	11	2	10	4	27	2	88	14	1	105	10	5	16	1	32	228
% Heavy Vehicles	1.8	3.7	0.5	40	2.9	3	0.8	11.4	16.7	3.7	3.1	5.7	8.7	50	5.9	5	1.7	5	20	3.9	4.1



Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

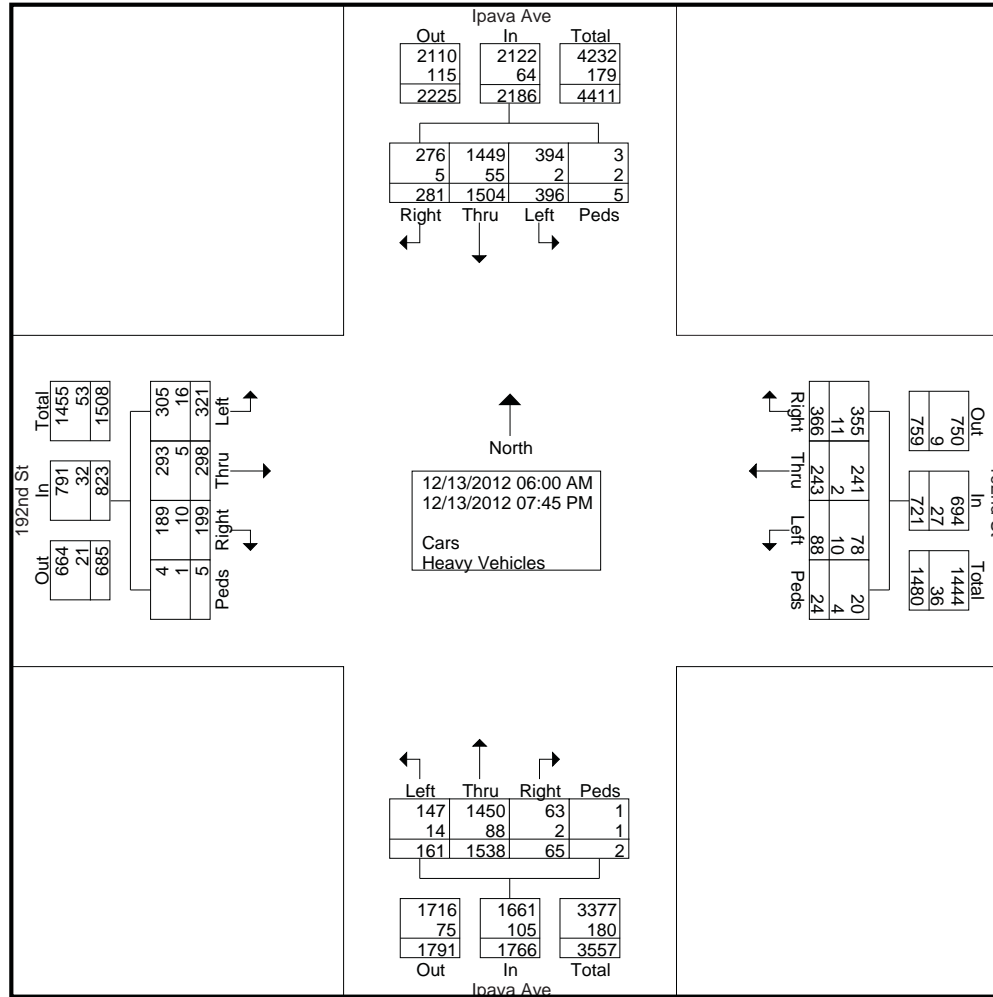
File Name : 8 - Ipava Ave & 192nd St

Site Code : 22712028

Start Date : 12/13/2012

Page No : 4

Ipava Ave & 192nd St
Lakeville, MN





Traffic Data Inc

3268 Xenwood Avenue South
St. Louis Park, MN 55416

File Name : 8 - Ipava Ave & 192nd St
Site Code : 22712028
Start Date : 12/13/2012
Page No : 5

Ipava Ave & 192nd St
Lakeville, MN

Start Time	Ipava Ave From North					192nd St From East					Ipava Ave From South					192nd St From West					Int. Total
	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	Right	Thru	Left	Bikes	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	8	28	6	0	42	16	10	0	0	26	0	40	4	0	44	14	6	18	0	38	150
07:15 AM	6	34	7	0	47	4	5	1	0	10	1	41	3	0	45	12	5	14	0	31	133
07:30 AM	4	77	20	1	102	2	5	1	0	8	4	25	2	0	31	13	10	7	0	30	171
07:45 AM	6	179	74	0	259	2	3	2	1	8	14	94	12	0	120	21	18	10	0	49	436
Total Volume	24	318	107	1	450	24	23	4	1	52	19	200	21	0	240	60	39	49	0	148	890
% App. Total	5.3	70.7	23.8	0.2		46.2	44.2	7.7	1.9		7.9	83.3	8.8	0		40.5	26.4	33.1	0		
PHF	.750	.444	.361	.250	.434	.375	.575	.500	.250	.500	.339	.532	.438	.000	.500	.714	.542	.681	.000	.755	.510

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	0	15	3	0	18	5	4	0	1	10	0	15	3	0	18	0	2	5	0	7	53
01:15 PM	4	15	4	0	23	6	1	2	0	9	2	13	1	0	16	3	5	4	0	12	60
01:30 PM	4	9	4	0	17	11	3	1	0	15	0	24	2	0	26	3	3	3	0	9	67
01:45 PM	7	8	3	0	18	9	4	1	1	15	0	23	3	0	26	0	2	5	0	7	66
Total Volume	15	47	14	0	76	31	12	4	2	49	2	75	9	0	86	6	12	17	0	35	246
% App. Total	19.7	61.8	18.4	0		63.3	24.5	8.2	4.1		2.3	87.2	10.5	0		17.1	34.3	48.6	0		
PHF	.536	.783	.875	.000	.826	.705	.750	.500	.500	.817	.250	.781	.750	.000	.827	.500	.600	.850	.000	.729	.918

Peak Hour Analysis From 02:00 PM to 07:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 02:30 PM																					
02:30 PM	9	42	5	0	56	31	18	13	0	62	1	46	12	0	59	9	1	6	0	16	193
02:45 PM	4	36	3	0	43	49	4	5	0	58	3	122	18	0	143	4	5	14	1	24	268
03:00 PM	10	33	6	0	49	10	8	1	0	19	0	58	5	0	63	5	5	11	0	21	152
03:15 PM	4	35	5	0	44	10	4	3	0	17	2	43	2	0	47	4	10	4	0	18	126
Total Volume	27	146	19	0	192	100	34	22	0	156	6	269	37	0	312	22	21	35	1	79	739
% App. Total	14.1	76	9.9	0		64.1	21.8	14.1	0		1.9	86.2	11.9	0		27.8	26.6	44.3	1.3		
PHF	.675	.869	.792	.000	.857	.510	.472	.423	.000	.629	.500	.551	.514	.000	.545	.611	.525	.625	.250	.823	.689

Delay Data



Traffic Data Inc.

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7:00 - 8:00 a.m.

File Name : CSAH 50 & 188th, AM Delay
Site Code : 00000001
Start Date : 1/2/2013
Page No : 1

CSAH 50 & 188th St
Lakeville, MN

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	10:24:00 AM	10:24:05 AM	5
1	2	10:24:11 AM	10:24:13 AM	2
1	3	10:27:09 AM	10:27:16 AM	7
1	4	10:27:30 AM	10:27:31 AM	1
1	5	10:27:47 AM	10:28:02 AM	15
1	6	10:28:19 AM	10:28:20 AM	1
1	7	10:28:23 AM	10:28:29 AM	6
1	8	10:29:54 AM	10:30:20 AM	26
1	9	10:31:20 AM	10:31:27 AM	7
1	10	10:31:55 AM	10:32:54 AM	59
1	11	10:33:05 AM	10:33:34 AM	29
1	12	10:33:37 AM	10:33:38 AM	1
1	13	10:34:14 AM	10:34:16 AM	2
1	14	10:36:32 AM	10:36:33 AM	1
1	15	10:38:38 AM	10:38:41 AM	3
1	16	10:40:37 AM	10:40:39 AM	2
1	17	10:41:05 AM	10:41:07 AM	2
1	18	10:41:40 AM	10:41:41 AM	1
1	19	10:43:25 AM	10:43:44 AM	19
1	20	10:43:52 AM	10:44:34 AM	42
1	21	10:43:56 AM	10:46:18 AM	142
1	22	10:52:30 AM	10:53:04 AM	34
1	23	10:54:19 AM	10:54:24 AM	5
1	24	10:58:53 AM	10:59:16 AM	23
1	25	10:58:55 AM	10:59:21 AM	26
1	26	10:59:57 AM	11:00:21 AM	24
1	27	11:00:40 AM	11:00:49 AM	9
1	28	11:04:54 AM	11:05:03 AM	9
1	29	11:05:41 AM	11:05:43 AM	2
1	30	11:07:57 AM	11:07:59 AM	2
1	31	11:08:34 AM	11:08:42 AM	8
1	32	11:08:49 AM	11:08:50 AM	1
1	33	11:09:05 AM	11:09:09 AM	4
1	34	11:12:11 AM	11:12:12 AM	1
1	35	11:12:16 AM	11:12:16 AM	0
1	36	11:12:57 AM	11:13:24 AM	27
1	37	11:14:44 AM	11:14:56 AM	12
1	38	11:16:32 AM	11:16:50 AM	18
1	39	11:18:32 AM	11:18:57 AM	25
1	40	11:18:55 AM	11:19:00 AM	5
1	41	11:23:17 AM	11:23:19 AM	2
1	42	11:23:43 AM	11:24:25 AM	42

Summary Information:

10:24:00 AM - 11:25:00 AM	EB
Total Vehicle Count:	42
Delayed Vehicle Count:	42
Through Vehicle Count:	0
Average Stopped Time:	15.52
Maximum Stopped Time:	142
Min. Secs. for Delay:	0
Average Queue:	0.18
Queue Density:	1.10
Maximum Queue:	2
Delay in Vehicle Hour:	0.18
Total Delay:	652



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4:30 - 5:30 p.m.

File Name : CSAH 50 & 188th, PM Delay.ppd

Site Code : 00000002

Start Date : 1/2/2013

Page No : 1

CSAH 50 & 188th St
Lakeville, MN

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	11:33:00 AM	11:33:35 AM	35
1	2	11:33:01 AM	11:33:37 AM	36
1	3	11:33:22 AM	11:33:58 AM	36
1	4	11:33:47 AM	11:34:05 AM	18
1	5	11:35:40 AM	11:35:43 AM	3
1	6	11:49:00 AM	11:49:01 AM	1
1	7	11:49:36 AM	11:49:46 AM	10
1	8	11:51:18 AM	11:51:33 AM	15
1	9	11:52:32 AM	11:52:35 AM	3
1	10	11:55:18 AM	11:55:28 AM	10
1	11	12:00:37 PM	12:01:07 PM	30
1	12	12:01:27 PM	12:01:55 PM	28
1	13	12:02:36 PM	12:02:37 PM	1
1	14	12:05:32 PM	12:05:38 PM	6
1	15	12:07:47 PM	12:07:50 PM	3
1	16	12:07:55 PM	12:08:06 PM	11
1	17	12:13:18 PM	12:13:20 PM	2
1	18	12:13:50 PM	12:15:07 PM	77
1	19	12:14:10 PM	12:15:41 PM	91
1	20	12:16:50 PM	12:16:51 PM	1
1	21	12:24:46 PM	12:25:39 PM	53

Summary Information:

11:33:00 AM - 12:26:00 PM	EB
Total Vehicle Count:	21
Delayed Vehicle Count:	21
Through Vehicle Count:	0
Average Stopped Time:	22.38
Maximum Stopped Time:	91
Min. Secs. for Delay:	0
Average Queue:	0.15
Queue Density:	1.33
Maximum Queue:	3
Delay in Vehicle Hour:	0.15
Total Delay:	470



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7:00 - 8:00 a.m.

File Name : CSAH 50 & 192nd St-KM School North Driveway, AM Delay

Ln 1 = EB, Ln 2 = WB

Site Code : 00000005

CSAH 50 & 192nd St/KM School North Driveway

Start Date : 1/2/2013

Lakeville, MN

Page No : 1

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	5:08:36 PM	5:08:56 PM	20
1	2	5:10:56 PM	5:11:37 PM	41
1	3	5:11:06 PM	5:11:40 PM	34
1	4	5:15:49 PM	5:16:18 PM	29
1	5	5:15:49 PM	5:16:44 PM	55
1	6	5:15:50 PM	5:17:02 PM	72
1	7	5:15:56 PM	5:17:04 PM	68
1	8	5:16:34 PM	5:17:06 PM	32
1	9	5:17:36 PM	5:18:49 PM	73
1	10	5:20:11 PM	5:20:20 PM	9
1	11	5:20:35 PM	5:21:14 PM	39
1	12	5:20:57 PM	5:21:33 PM	36
1	13	5:21:00 PM	5:21:38 PM	38
1	14	5:21:27 PM	5:23:47 PM	140
1	15	5:21:55 PM	5:24:27 PM	152
1	16	5:22:07 PM	5:24:29 PM	142
1	17	5:22:15 PM	5:24:32 PM	137
1	18	5:22:23 PM	5:24:39 PM	136
1	19	5:22:34 PM	5:25:23 PM	169
1	20	5:22:52 PM	5:25:27 PM	155
1	21	5:22:54 PM	5:25:36 PM	162
1	22	5:23:36 PM	5:25:52 PM	136
1	23	5:24:44 PM	5:26:01 PM	77
1	24	5:25:26 PM	5:26:04 PM	38
1	25	5:25:38 PM	5:26:26 PM	48
1	26	5:25:40 PM	5:26:39 PM	59
1	27	5:25:58 PM	5:26:51 PM	53
1	28	5:26:07 PM	5:26:54 PM	47
1	29	5:26:29 PM	5:27:38 PM	69
1	30	5:26:44 PM	5:27:59 PM	75
1	31	5:27:34 PM	5:28:19 PM	45
1	32	5:30:42 PM	5:30:52 PM	10
1	33	5:30:59 PM	5:31:32 PM	33
1	34	5:31:03 PM	5:31:41 PM	38
1	35	5:31:17 PM	5:31:49 PM	32
1	36	5:31:22 PM	5:32:00 PM	38
1	37	5:34:52 PM	5:35:05 PM	13
1	38	5:40:25 PM	5:40:29 PM	4
1	39	5:42:17 PM	5:42:22 PM	5
1	40	5:44:50 PM	5:44:55 PM	5
1	41	5:54:43 PM	5:54:53 PM	10
1	42	5:59:03 PM	5:59:43 PM	40
1	43	6:01:18 PM	6:01:22 PM	4
1	44	6:06:05 PM	6:06:14 PM	9
1	45	6:07:28 PM	6:07:43 PM	15
2	1	5:08:39 PM	5:09:14 PM	35
2	2	5:09:26 PM	5:09:28 PM	2
2	3	5:09:30 PM	5:09:31 PM	1
2	4	5:10:29 PM	5:10:31 PM	2
2	5	5:10:37 PM	5:10:43 PM	6
2	6	5:10:59 PM	5:11:15 PM	16
2	7	5:11:18 PM	5:11:34 PM	16
2	8	5:11:22 PM	5:11:35 PM	13
2	9	5:11:48 PM	5:11:49 PM	1
2	10	5:12:02 PM	5:12:28 PM	26
2	11	5:12:18 PM	5:12:52 PM	34
2	12	5:13:02 PM	5:13:08 PM	6
2	13	5:13:57 PM	5:13:57 PM	0
2	14	5:14:11 PM	5:14:43 PM	32
2	15	5:15:18 PM	5:15:45 PM	27
2	16	5:15:39 PM	5:15:58 PM	19
2	17	5:15:53 PM	5:16:09 PM	16
2	18	5:16:55 PM	5:17:03 PM	8



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File Name : CSAH 50 & 192nd St-KM School North Driveway, AM Delay

Site Code : 00000005

Start Date : 1/2/2013

Page No : 2

L n.	No.	Joined Queue	Released From Queue	Delay
2	19	5:17:41 PM	5:18:44 PM	63
2	20	5:18:43 PM	5:18:44 PM	1
2	21	5:18:47 PM	5:18:47 PM	0
2	22	5:18:58 PM	5:18:59 PM	1
2	23	5:19:56 PM	5:19:59 PM	3
2	24	5:21:01 PM	5:21:12 PM	11
2	25	5:21:11 PM	5:21:30 PM	19
2	26	5:21:28 PM	5:21:35 PM	7
2	27	5:21:36 PM	5:21:36 PM	0
2	28	5:22:42 PM	5:22:42 PM	0
2	29	5:22:43 PM	5:22:44 PM	1
2	30	5:24:05 PM	5:24:15 PM	10
2	31	5:24:16 PM	5:24:25 PM	9
2	32	5:24:53 PM	5:24:59 PM	6
2	33	5:25:14 PM	5:25:20 PM	6
2	34	5:25:52 PM	5:25:55 PM	3
2	35	5:26:24 PM	5:26:38 PM	14
2	36	5:26:40 PM	5:26:41 PM	1
2	37	5:26:45 PM	5:26:51 PM	6
2	38	5:27:10 PM	5:27:30 PM	20
2	39	5:29:08 PM	5:29:10 PM	2
2	40	5:29:39 PM	5:29:41 PM	2
2	41	5:30:53 PM	5:30:58 PM	5
2	42	5:31:14 PM	5:31:32 PM	18
2	43	5:34:31 PM	5:34:36 PM	5
2	44	5:35:12 PM	5:35:31 PM	19
2	45	5:36:35 PM	5:36:38 PM	3
2	46	5:39:11 PM	5:39:16 PM	5
2	47	5:39:20 PM	5:39:22 PM	2
2	48	5:40:01 PM	5:40:03 PM	2
2	49	5:40:10 PM	5:40:14 PM	4
2	50	5:40:55 PM	5:40:59 PM	4
2	51	5:41:41 PM	5:41:42 PM	1
2	52	5:41:55 PM	5:41:57 PM	2
2	53	5:42:49 PM	5:42:50 PM	1
2	54	5:42:51 PM	5:42:53 PM	2
2	55	5:43:30 PM	5:43:39 PM	9
2	56	5:47:28 PM	5:47:29 PM	1
2	57	5:47:40 PM	5:47:41 PM	1
2	58	5:48:45 PM	5:48:55 PM	10
2	59	5:48:56 PM	5:48:58 PM	2
2	60	5:49:29 PM	5:49:35 PM	6
2	61	5:49:58 PM	5:50:16 PM	18
2	62	5:52:01 PM	5:52:13 PM	12
2	63	5:52:29 PM	5:52:32 PM	3
2	64	5:53:06 PM	5:53:15 PM	9
2	65	5:54:22 PM	5:54:41 PM	19
2	66	5:54:50 PM	5:54:53 PM	3
2	67	5:55:32 PM	5:55:35 PM	3
2	68	5:56:37 PM	5:56:40 PM	3
2	69	5:57:05 PM	5:57:10 PM	5
2	70	5:57:17 PM	5:57:19 PM	2
2	71	5:57:28 PM	5:57:32 PM	4
2	72	5:57:48 PM	5:57:52 PM	4
2	73	5:58:42 PM	5:58:43 PM	1
2	74	5:59:03 PM	5:59:11 PM	8
2	75	6:01:18 PM	6:01:22 PM	4
2	76	6:01:37 PM	6:01:45 PM	8
2	77	6:03:01 PM	6:03:08 PM	7
2	78	6:04:59 PM	6:05:05 PM	6
2	79	6:05:06 PM	6:05:08 PM	2
2	80	6:07:18 PM	6:07:26 PM	8



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File Name : CSAH 50 & 192nd St-KM School North Driveway, AM Delay
Site Code : 00000005
Start Date : 1/2/2013
Page No : 3

Summary Information:

5:08:00 PM - 6:08:00 PM	EB	WB
Total Vehicle Count:	45	80
Delayed Vehicle Count:	45	80
Through Vehicle Count:	0	0
Average Stopped Time:	58.71	8.450
Maximum Stopped Time:	169	63
Min. Secs. for Delay:	0	0
Average Queue:	0.74	0.191
Queue Density:	3.06	1.058
Maximum Queue:	9	2
Delay in Vehicle Hour:	0.74	0.19
Total Delay:	2642	676



Traffic Data Inc

PO Box 16296
St. Louis Park, MN 55416

1:30 - 2:30 p.m.

File Name : CSAH 50 & 192nd St-KM School North Driveway, Midday Delay redo

Site Code : 22712023

Start Date : 12/13/2012

Page No : 1

CSAH 50 & 192nd St-KM School North Drive
Lakeville, MN

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	1:30:04 PM	1:30:12 PM	8
1	2	1:32:15 PM	1:32:17 PM	2
1	3	1:41:17 PM	1:41:32 PM	15
1	4	2:02:31 PM	2:02:45 PM	14
1	5	2:03:57 PM	2:04:30 PM	33
1	6	2:05:01 PM	2:05:03 PM	2
1	7	2:05:06 PM	2:05:10 PM	4
1	8	2:05:19 PM	2:05:21 PM	2
1	9	2:06:33 PM	2:06:39 PM	6
1	10	2:06:43 PM	2:06:47 PM	4
1	11	2:07:07 PM	2:07:11 PM	4
1	12	2:07:17 PM	2:07:37 PM	20
1	13	2:07:22 PM	2:08:18 PM	56
1	14	2:07:24 PM	2:08:19 PM	55
1	15	2:07:44 PM	2:08:23 PM	39
1	16	2:07:54 PM	2:08:29 PM	35
1	17	2:08:19 PM	2:08:42 PM	23
1	18	2:08:34 PM	2:08:58 PM	24
1	19	2:08:35 PM	2:09:01 PM	26
1	20	2:09:15 PM	2:09:34 PM	19
1	21	2:09:20 PM	2:10:15 PM	55
1	22	2:09:25 PM	2:10:18 PM	53
1	23	2:09:49 PM	2:10:30 PM	41
1	24	2:10:26 PM	2:10:39 PM	13
1	25	2:10:55 PM	2:11:05 PM	10
1	26	2:11:28 PM	2:11:49 PM	21
1	27	2:11:29 PM	2:12:37 PM	68
1	28	2:11:44 PM	2:12:54 PM	70
1	29	2:13:14 PM	2:13:19 PM	5
1	30	2:13:40 PM	2:14:41 PM	61
1	31	2:13:57 PM	2:14:47 PM	50
1	32	2:15:19 PM	2:15:21 PM	2
1	33	2:15:54 PM	2:16:41 PM	47
1	34	2:19:29 PM	2:20:01 PM	32
1	35	2:24:36 PM	2:24:51 PM	15
1	36	2:27:39 PM	2:27:43 PM	4
1	37	2:29:06 PM	2:29:13 PM	7
2	1	1:33:44 PM	1:33:45 PM	1
2	2	1:39:39 PM	1:39:40 PM	1
2	3	1:42:27 PM	1:42:28 PM	1
2	4	1:42:52 PM	1:42:55 PM	3
2	5	1:43:06 PM	1:43:09 PM	3
2	6	1:43:34 PM	1:43:38 PM	4
2	7	1:45:01 PM	1:45:21 PM	20
2	8	1:46:06 PM	1:46:12 PM	6
2	9	1:46:13 PM	1:46:20 PM	7



Traffic Data Inc

PO Box 16296
St. Louis Park, MN 55416

File Name : CSAH 50 & 192nd St-KM School North Driveway, Midday Delay redo

Site Code : 22712023

Start Date : 12/13/2012

Page No : 2

L n.	No.	Joined Queue	Released From Queue	Delay
2	10	1:46:26 PM	1:46:28 PM	2
2	11	1:48:24 PM	1:48:45 PM	21
2	12	1:49:05 PM	1:49:09 PM	4
2	13	1:49:07 PM	1:49:13 PM	6
2	14	1:52:00 PM	1:52:16 PM	16
2	15	1:52:16 PM	1:52:24 PM	8
2	16	1:56:24 PM	1:56:25 PM	1
2	17	1:57:03 PM	1:57:15 PM	12
2	18	1:57:48 PM	1:57:51 PM	3
2	19	1:58:39 PM	1:58:40 PM	1
2	20	1:59:52 PM	1:59:57 PM	5
2	21	2:00:23 PM	2:00:38 PM	15
2	22	2:02:46 PM	2:02:48 PM	2
2	23	2:05:12 PM	2:05:18 PM	6
2	24	2:05:53 PM	2:05:55 PM	2
2	25	2:08:32 PM	2:08:37 PM	5
2	26	2:09:19 PM	2:09:21 PM	2
2	27	2:11:00 PM	2:11:02 PM	2
2	28	2:11:38 PM	2:11:48 PM	10
2	29	2:12:40 PM	2:12:46 PM	6
2	30	2:13:30 PM	2:13:52 PM	22
2	31	2:14:51 PM	2:14:54 PM	3
2	32	2:15:59 PM	2:16:43 PM	44
2	33	2:18:17 PM	2:18:24 PM	7
2	34	2:19:05 PM	2:19:06 PM	1
2	35	2:20:18 PM	2:20:25 PM	7
2	36	2:23:24 PM	2:23:34 PM	10
2	37	2:23:55 PM	2:23:56 PM	1
2	38	2:25:52 PM	2:26:01 PM	9
2	39	2:29:09 PM	2:29:11 PM	2
2	40	2:29:25 PM	2:29:25 PM	0

Summary Information:

1:30:00 PM - 2:30:00 PM	EB	WB
Total Vehicle Count:	37	40
Delayed Vehicle Count:	37	40
Through Vehicle Count:	0	0
Average Stopped Time:	25.54	7.025
Maximum Stopped Time:	70	44
Min. Secs. for Delay:	0	0
Average Queue:	0.27	0.084
Queue Density:	1.70	1.007
Maximum Queue:	4	2
Delay in Vehicle Hour:	0.27	0.08
Total Delay:	945	281



Traffic Data Inc

PO Box 16296
St. Louis Park, MN 55416

4:30 - 5:30 p.m.

File Name : CSAH 50 & 192nd St-KM School North Driveway, PM Delay redo

Site Code : 22712023

Start Date : 12/13/2012

Page No : 1

CSAH 50 & 192nd St-KM School North Drive
Lakeville, MN

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	4:30:26 PM	4:30:58 PM	32
1	2	4:41:41 PM	4:41:45 PM	4
1	3	4:51:04 PM	4:51:58 PM	54
1	4	4:54:06 PM	4:54:41 PM	35
1	5	5:00:44 PM	5:01:11 PM	27
1	6	5:04:59 PM	5:05:38 PM	39
1	7	5:08:13 PM	5:08:16 PM	3
1	8	5:08:18 PM	5:08:26 PM	8
1	9	5:08:31 PM	5:08:34 PM	3
1	10	5:08:43 PM	5:08:47 PM	4
1	11	5:09:08 PM	5:09:49 PM	41
1	12	5:10:46 PM	5:11:08 PM	22
1	13	5:11:03 PM	5:11:11 PM	8
1	14	5:11:14 PM	5:12:32 PM	78
1	15	5:13:36 PM	5:13:45 PM	9
1	16	5:15:04 PM	5:15:48 PM	44
1	17	5:15:29 PM	5:15:54 PM	25
1	18	5:15:44 PM	5:16:07 PM	23
1	19	5:19:26 PM	5:19:29 PM	3
1	20	5:22:04 PM	5:23:10 PM	66
1	21	5:23:45 PM	5:23:48 PM	3
1	22	5:24:01 PM	5:24:11 PM	10
1	23	5:25:17 PM	5:25:23 PM	6
1	24	5:25:20 PM	5:25:23 PM	3
1	25	5:28:30 PM	5:28:35 PM	5
1	26	5:28:54 PM	5:29:41 PM	47
2	1	4:30:06 PM	4:30:49 PM	43
2	2	4:30:17 PM	4:30:52 PM	35
2	3	4:30:46 PM	4:30:53 PM	7
2	4	4:30:50 PM	4:30:58 PM	8
2	5	4:31:47 PM	4:31:49 PM	2
2	6	4:31:51 PM	4:32:02 PM	11
2	7	4:32:55 PM	4:33:15 PM	20
2	8	4:33:19 PM	4:33:23 PM	4
2	9	4:34:02 PM	4:34:13 PM	11
2	10	4:34:32 PM	4:34:33 PM	1
2	11	4:34:43 PM	4:34:46 PM	3
2	12	4:34:51 PM	4:35:04 PM	13
2	13	4:35:05 PM	4:35:07 PM	2
2	14	4:35:21 PM	4:35:23 PM	2
2	15	4:36:35 PM	4:36:51 PM	16
2	16	4:37:12 PM	4:37:15 PM	3
2	17	4:37:49 PM	4:37:52 PM	3
2	18	4:42:05 PM	4:42:24 PM	19
2	19	4:43:19 PM	4:43:35 PM	16
2	20	4:44:21 PM	4:44:48 PM	27



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PO Box 16296
St. Louis Park, MN 55416

File Name : CSAH 50 & 192nd St-KM School North Driveway, PM Delay redo
Site Code : 22712023
Start Date : 12/13/2012
Page No : 2

L n.	No.	Joined Queue	Released From Queue	Delay
2	21	4:44:58 PM	4:45:00 PM	2
2	22	4:45:09 PM	4:45:13 PM	4
2	23	4:45:14 PM	4:45:16 PM	2
2	24	4:45:51 PM	4:46:12 PM	21
2	25	4:49:09 PM	4:49:20 PM	11
2	26	4:49:34 PM	4:49:41 PM	7
2	27	4:49:37 PM	4:49:44 PM	7
2	28	4:50:41 PM	4:51:17 PM	36
2	29	4:51:15 PM	4:51:45 PM	30
2	30	4:51:37 PM	4:52:07 PM	30
2	31	4:52:09 PM	4:52:40 PM	31
2	32	4:52:55 PM	4:53:17 PM	22
2	33	4:53:09 PM	4:53:37 PM	28
2	34	4:53:17 PM	4:54:09 PM	52
2	35	4:53:43 PM	4:54:54 PM	71
2	36	4:53:49 PM	4:54:59 PM	70
2	37	4:54:49 PM	4:55:01 PM	12
2	38	4:54:56 PM	4:55:04 PM	8
2	39	4:55:04 PM	4:55:16 PM	12
2	40	4:55:06 PM	4:55:18 PM	12
2	41	4:55:24 PM	4:55:28 PM	4
2	42	4:55:28 PM	4:55:31 PM	3
2	43	4:56:24 PM	4:56:46 PM	22
2	44	4:57:15 PM	4:57:18 PM	3
2	45	4:57:26 PM	4:57:47 PM	21
2	46	4:57:44 PM	4:58:55 PM	71
2	47	4:58:06 PM	4:59:04 PM	58
2	48	4:58:50 PM	4:59:05 PM	15
2	49	4:58:52 PM	4:59:26 PM	34
2	50	5:00:38 PM	5:01:08 PM	30
2	51	5:01:12 PM	5:01:40 PM	28
2	52	5:03:20 PM	5:03:31 PM	11
2	53	5:05:37 PM	5:05:42 PM	5
2	54	5:05:40 PM	5:05:42 PM	2
2	55	5:05:56 PM	5:06:08 PM	12
2	56	5:06:08 PM	5:07:55 PM	107
2	57	5:07:43 PM	5:08:07 PM	24
2	58	5:08:18 PM	5:08:20 PM	2
2	59	5:08:38 PM	5:08:44 PM	6
2	60	5:08:55 PM	5:09:00 PM	5
2	61	5:09:42 PM	5:09:45 PM	3
2	62	5:09:49 PM	5:09:51 PM	2
2	63	5:10:24 PM	5:10:35 PM	11
2	64	5:11:04 PM	5:11:09 PM	5
2	65	5:11:17 PM	5:12:30 PM	73
2	66	5:15:37 PM	5:15:52 PM	15
2	67	5:16:23 PM	5:16:31 PM	8
2	68	5:16:32 PM	5:16:34 PM	2



Traffic Data Inc

PO Box 16296
St. Louis Park, MN 55416

File Name : CSAH 50 & 192nd St-KM School North Driveway, PM Delay redo
Site Code : 22712023
Start Date : 12/13/2012
Page No : 3

L n.	No.	Joined Queue	Released From Queue	Delay
2	69	5:17:45 PM	5:17:48 PM	3
2	70	5:22:27 PM	5:23:05 PM	38
2	71	5:23:30 PM	5:23:34 PM	4
2	72	5:23:54 PM	5:23:57 PM	3
2	73	5:25:25 PM	5:25:37 PM	12
2	74	5:25:35 PM	5:25:45 PM	10
2	75	5:25:44 PM	5:26:37 PM	53
2	76	5:25:55 PM	5:27:42 PM	107
2	77	5:26:15 PM	5:27:46 PM	91
2	78	5:28:18 PM	5:28:19 PM	1

Summary Information:

4:29:00 PM - 5:30:00 PM	EB	WB
Total Vehicle Count:	26	78
Delayed Vehicle Count:	26	78
Through Vehicle Count:	0	0
Average Stopped Time:	23.15	20.744
Maximum Stopped Time:	78	107
Min. Secs. for Delay:	0	0
Average Queue:	0.17	0.463
Queue Density:	1.07	1.355
Maximum Queue:	3	4
Delay in Vehicle Hour:	0.17	0.46
Total Delay:	602	1618



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888.233.1012

7:00 - 8:00 a.m.

File Name : CSAH 50 & KM School South Driveway, AM Delay

Site Code : 00000013

CSAH 50 & KN School South Driveway

Start Date : 1/2/2013

Lakeville, MN

Page No : 1

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	1:01:35 PM	1:01:47 PM	12
1	2	1:02:07 PM	1:02:23 PM	16
1	3	1:02:31 PM	1:02:48 PM	17
1	4	1:03:20 PM	1:03:33 PM	13
1	5	1:04:09 PM	1:04:22 PM	13
1	6	1:04:19 PM	1:04:40 PM	21
1	7	1:04:39 PM	1:04:45 PM	6
1	8	1:05:37 PM	1:05:51 PM	14
1	9	1:05:52 PM	1:06:04 PM	12
1	10	1:05:55 PM	1:06:06 PM	11
1	11	1:06:50 PM	1:06:56 PM	6
1	12	1:06:56 PM	1:07:09 PM	13
1	13	1:07:15 PM	1:07:46 PM	31
1	14	1:07:55 PM	1:08:04 PM	9
1	15	1:08:05 PM	1:08:28 PM	23
1	16	1:08:49 PM	1:09:11 PM	22
1	17	1:09:00 PM	1:09:34 PM	34
1	18	1:09:07 PM	1:09:44 PM	37
1	19	1:09:43 PM	1:09:48 PM	5
1	20	1:09:49 PM	1:09:57 PM	8
1	21	1:09:57 PM	1:10:10 PM	13
1	22	1:10:29 PM	1:11:15 PM	46
1	23	1:10:49 PM	1:11:40 PM	51
1	24	1:11:17 PM	1:11:45 PM	28
1	25	1:11:53 PM	1:12:03 PM	10
1	26	1:12:03 PM	1:12:06 PM	3
1	27	1:12:05 PM	1:12:11 PM	6
1	28	1:12:11 PM	1:12:16 PM	5
1	29	1:12:16 PM	1:12:18 PM	2
1	30	1:12:22 PM	1:12:26 PM	4
1	31	1:12:26 PM	1:12:30 PM	4
1	32	1:13:33 PM	1:14:09 PM	36
1	33	1:13:35 PM	1:14:13 PM	38
1	34	1:13:46 PM	1:14:22 PM	36
1	35	1:13:54 PM	1:14:25 PM	31
1	36	1:13:57 PM	1:14:33 PM	36
1	37	1:14:05 PM	1:14:48 PM	43
1	38	1:14:29 PM	1:14:52 PM	23
1	39	1:14:59 PM	1:15:04 PM	5
1	40	1:15:37 PM	1:15:46 PM	9
1	41	1:16:04 PM	1:16:10 PM	6
1	42	1:16:10 PM	1:16:23 PM	13
1	43	1:16:17 PM	1:16:24 PM	7
1	44	1:16:21 PM	1:16:30 PM	9
1	45	1:16:30 PM	1:16:46 PM	16
1	46	1:16:34 PM	1:16:52 PM	18
1	47	1:16:41 PM	1:16:59 PM	18
1	48	1:16:49 PM	1:17:03 PM	14
1	49	1:16:59 PM	1:17:08 PM	9
1	50	1:17:20 PM	1:17:55 PM	35
1	51	1:17:21 PM	1:17:59 PM	38
1	52	1:17:21 PM	1:18:14 PM	53
1	53	1:17:24 PM	1:18:16 PM	52
1	54	1:17:44 PM	1:18:19 PM	35
1	55	1:17:48 PM	1:18:40 PM	52
1	56	1:17:58 PM	1:18:41 PM	43
1	57	1:18:02 PM	1:18:46 PM	44
1	58	1:18:10 PM	1:18:55 PM	45
1	59	1:18:17 PM	1:18:55 PM	38
1	60	1:18:29 PM	1:18:59 PM	30
1	61	1:18:40 PM	1:19:02 PM	22
1	62	1:18:46 PM	1:19:03 PM	17
1	63	1:18:53 PM	1:19:07 PM	14



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File Name : CSAH 50 & KM School South Driveway, AM Delay
Site Code : 00000013
Start Date : 1/2/2013
Page No : 2

L n.	No.	Joined Queue	Released From Queue	Delay
1	64	1:18:57 PM	1:19:11 PM	14
1	65	1:18:58 PM	1:19:17 PM	19
1	66	1:19:01 PM	1:19:24 PM	23
1	67	1:19:06 PM	1:19:32 PM	26
1	68	1:19:25 PM	1:20:01 PM	36
1	69	1:20:04 PM	1:20:15 PM	11
1	70	1:20:11 PM	1:20:25 PM	14
1	71	1:20:18 PM	1:20:31 PM	13
1	72	1:20:27 PM	1:20:38 PM	11
1	73	1:20:32 PM	1:20:54 PM	22
1	74	1:20:47 PM	1:21:17 PM	30
1	75	1:20:50 PM	1:21:22 PM	32
1	76	1:20:52 PM	1:21:27 PM	35
1	77	1:21:16 PM	1:21:28 PM	12
1	78	1:21:24 PM	1:22:11 PM	47
1	79	1:21:57 PM	1:22:14 PM	17
1	80	1:22:07 PM	1:22:40 PM	33
1	81	1:22:39 PM	1:22:44 PM	5
1	82	1:22:43 PM	1:22:47 PM	4
1	83	1:22:48 PM	1:23:00 PM	12
1	84	1:22:54 PM	1:23:03 PM	9
1	85	1:23:07 PM	1:23:12 PM	5
1	86	1:23:22 PM	1:23:29 PM	7
1	87	1:23:40 PM	1:23:44 PM	4
1	88	1:24:55 PM	1:25:02 PM	7
1	89	1:27:43 PM	1:27:54 PM	11
1	90	1:28:30 PM	1:28:35 PM	5
1	91	1:29:22 PM	1:29:33 PM	11
1	92	1:54:39 PM	1:55:11 PM	32

Summary Information:

1:01:00 PM - 1:56:00 PM	EB
Total Vehicle Count:	92
Delayed Vehicle Count:	92
Through Vehicle Count:	0
Average Stopped Time:	20.51
Maximum Stopped Time:	53
Min. Secs. for Delay:	0
Average Queue:	0.59
Queue Density:	1.94
Maximum Queue:	7
Delay in Vehicle Hour:	0.59
Total Delay:	1887



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888.233.1012

1:30-2:30 p.m.

File Name : CSAH 50 & KM School South Driveway, Midday Delay

Site Code : 00000014

CSAH 50 & KN School South Driveway

Start Date : 1/3/2013

Lakeville, MN

Page No : 1

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	10:28:05 AM	10:28:10 AM	5
1	2	10:39:34 AM	10:39:35 AM	1
1	3	10:40:00 AM	10:40:24 AM	24
1	4	10:43:47 AM	10:44:08 AM	21
1	5	10:52:47 AM	10:53:05 AM	18
1	6	10:52:48 AM	10:53:23 AM	35
1	7	10:53:59 AM	10:54:05 AM	6
1	8	10:54:07 AM	10:54:10 AM	3
1	9	10:54:09 AM	10:54:11 AM	2
1	10	10:54:29 AM	10:54:31 AM	2
1	11	10:54:38 AM	10:54:56 AM	18
1	12	10:55:45 AM	10:55:49 AM	4
1	13	10:55:53 AM	10:55:55 AM	2
1	14	10:55:59 AM	10:56:01 AM	2
1	15	10:56:15 AM	10:56:20 AM	5
1	16	10:56:17 AM	10:56:29 AM	12
1	17	10:56:27 AM	10:57:12 AM	45
1	18	10:56:28 AM	10:57:15 AM	47
1	19	10:56:30 AM	10:57:19 AM	49
1	20	10:56:48 AM	10:57:20 AM	32
1	21	10:56:58 AM	10:57:24 AM	26
1	22	10:57:00 AM	10:57:25 AM	25
1	23	10:57:07 AM	10:57:28 AM	21
1	24	10:57:20 AM	10:57:35 AM	15
1	25	10:57:29 AM	10:57:45 AM	16
1	26	10:57:34 AM	10:57:47 AM	13
1	27	10:57:38 AM	10:57:54 AM	16
1	28	10:57:41 AM	10:58:00 AM	19
1	29	10:57:43 AM	10:58:15 AM	32
1	30	10:57:45 AM	10:58:28 AM	43
1	31	10:57:56 AM	10:59:08 AM	72
1	32	10:57:58 AM	10:59:16 AM	78
1	33	10:58:04 AM	10:59:32 AM	88
1	34	10:58:09 AM	10:59:32 AM	83
1	35	10:58:12 AM	10:59:37 AM	85
1	36	10:58:22 AM	11:00:07 AM	105
1	37	10:58:48 AM	11:00:12 AM	84
1	38	10:58:51 AM	11:00:34 AM	103
1	39	10:58:59 AM	11:00:34 AM	95
1	40	10:59:38 AM	11:00:41 AM	63
1	41	10:59:54 AM	11:00:49 AM	55
1	42	11:00:25 AM	11:00:59 AM	34
1	43	11:00:42 AM	11:01:33 AM	51
1	44	11:01:28 AM	11:01:42 AM	14
1	45	11:01:56 AM	11:01:58 AM	2
1	46	11:03:41 AM	11:03:47 AM	6
1	47	11:04:04 AM	11:04:08 AM	4
1	48	11:05:15 AM	11:05:19 AM	4
1	49	11:07:12 AM	11:07:14 AM	2
1	50	11:08:54 AM	11:08:57 AM	3
1	51	11:12:13 AM	11:12:30 AM	17
1	52	11:12:27 AM	11:12:39 AM	12
1	53	11:12:31 AM	11:12:40 AM	9
1	54	11:16:12 AM	11:16:23 AM	11



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File Name : CSAH 50 & KM School South Driveway, Midday Delay
Site Code : 00000014
Start Date : 1/3/2013
Page No : 2

Summary Information:

10:19:00 AM - 11:17:00 AM	EB
Total Vehicle Count:	54
Delayed Vehicle Count:	54
Through Vehicle Count:	0
Average Stopped Time:	30.35
Maximum Stopped Time:	105
Min. Secs. for Delay:	0
Average Queue:	0.57
Queue Density:	3.21
Maximum Queue:	9
Delay in Vehicle Hour:	0.57
Total Delay:	1639



Traffic Data Inc

PO Box 16296
St. Louis Park, MN 55416

7:00 - 8:00 a.m.

CSAH 50 & Jaguar Ave
Lakeville, MN

File Name : CSAH 50 & Jaguar, AM Delay redo

Site Code : 22712025

Start Date : 12/13/2012

Page No : 1

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	7:01:04 AM	7:01:05 AM	1
1	2	7:01:18 AM	7:01:27 AM	9
1	3	7:01:54 AM	7:01:55 AM	1
1	4	7:02:14 AM	7:02:31 AM	17
1	5	7:03:18 AM	7:03:30 AM	12
1	6	7:03:29 AM	7:03:41 AM	12
1	7	7:03:50 AM	7:03:52 AM	2
1	8	7:04:18 AM	7:04:20 AM	2
1	9	7:04:41 AM	7:04:49 AM	8
1	10	7:04:44 AM	7:04:53 AM	9
1	11	7:04:47 AM	7:05:02 AM	15
1	12	7:04:52 AM	7:05:05 AM	13
1	13	7:06:23 AM	7:06:31 AM	8
1	14	7:06:28 AM	7:06:51 AM	23
1	15	7:07:00 AM	7:07:03 AM	3
1	16	7:07:07 AM	7:07:07 AM	0
1	17	7:08:06 AM	7:08:07 AM	1
1	18	7:08:38 AM	7:08:46 AM	8
1	19	7:09:09 AM	7:09:15 AM	6
1	20	7:09:39 AM	7:09:59 AM	20
1	21	7:12:49 AM	7:12:50 AM	1
1	22	7:12:53 AM	7:12:55 AM	2
1	23	7:13:35 AM	7:13:36 AM	1
1	24	7:13:42 AM	7:13:50 AM	8
1	25	7:14:34 AM	7:15:06 AM	32
1	26	7:14:56 AM	7:15:08 AM	12
1	27	7:15:46 AM	7:15:53 AM	7
1	28	7:16:04 AM	7:16:04 AM	0
1	29	7:16:26 AM	7:16:34 AM	8
1	30	7:17:04 AM	7:17:11 AM	7
1	31	7:18:08 AM	7:18:38 AM	30
1	32	7:18:21 AM	7:18:41 AM	20
1	33	7:18:46 AM	7:19:01 AM	15
1	34	7:19:05 AM	7:19:07 AM	2
1	35	7:19:27 AM	7:19:53 AM	26
1	36	7:19:37 AM	7:20:07 AM	30
1	37	7:19:43 AM	7:20:10 AM	27
1	38	7:19:51 AM	7:20:11 AM	20
1	39	7:19:53 AM	7:20:30 AM	37
1	40	7:20:27 AM	7:20:50 AM	23
1	41	7:21:37 AM	7:21:38 AM	1
1	42	7:21:41 AM	7:21:42 AM	1
1	43	7:22:39 AM	7:22:51 AM	12
1	44	7:22:44 AM	7:22:53 AM	9
1	45	7:23:37 AM	7:23:38 AM	1
1	46	7:24:06 AM	7:24:14 AM	8



Traffic Data Inc

PO Box 16296
St. Louis Park, MN 55416

File Name : CSAH 50 & Jaguar, AM Delay redo
Site Code : 22712025
Start Date : 12/13/2012
Page No : 2

L n.	No.	Joined Queue	Released From Queue	Delay
1	47	7:25:18 AM	7:25:20 AM	2
1	48	7:26:15 AM	7:26:16 AM	1
1	49	7:26:25 AM	7:26:26 AM	1
1	50	7:27:30 AM	7:27:31 AM	1
1	51	7:27:46 AM	7:27:49 AM	3
1	52	7:29:19 AM	7:29:20 AM	1
1	53	7:30:18 AM	7:30:20 AM	2
1	54	7:31:07 AM	7:31:08 AM	1
1	55	7:31:15 AM	7:31:16 AM	1
1	56	7:31:52 AM	7:31:57 AM	5
1	57	7:33:13 AM	7:33:14 AM	1
1	58	7:33:32 AM	7:33:37 AM	5
1	59	7:36:02 AM	7:36:03 AM	1
1	60	7:36:08 AM	7:36:16 AM	8
1	61	7:36:55 AM	7:37:02 AM	7
1	62	7:37:59 AM	7:38:13 AM	14
1	63	7:38:21 AM	7:38:22 AM	1
1	64	7:39:15 AM	7:39:29 AM	14
1	65	7:39:26 AM	7:39:30 AM	4
1	66	7:40:06 AM	7:40:08 AM	2
1	67	7:40:19 AM	7:40:28 AM	9
1	68	7:40:21 AM	7:40:42 AM	21
1	69	7:40:37 AM	7:41:07 AM	30
1	70	7:41:16 AM	7:41:21 AM	5
1	71	7:41:20 AM	7:41:25 AM	5
1	72	7:42:08 AM	7:42:17 AM	9
1	73	7:42:40 AM	7:42:42 AM	2
1	74	7:43:19 AM	7:43:22 AM	3
1	75	7:44:17 AM	7:44:20 AM	3
1	76	7:44:29 AM	7:44:33 AM	4
1	77	7:45:36 AM	7:45:51 AM	15
1	78	7:45:38 AM	7:45:58 AM	20
1	79	7:45:58 AM	7:46:11 AM	13
1	80	7:46:40 AM	7:46:56 AM	16
1	81	7:46:52 AM	7:46:59 AM	7
1	82	7:47:03 AM	7:47:07 AM	4
1	83	7:47:12 AM	7:47:31 AM	19
1	84	7:47:16 AM	7:47:38 AM	22
1	85	7:47:20 AM	7:47:42 AM	22
1	86	7:47:45 AM	7:47:52 AM	7
1	87	7:48:08 AM	7:48:09 AM	1
1	88	7:48:10 AM	7:48:18 AM	8
1	89	7:48:23 AM	7:48:24 AM	1
1	90	7:48:31 AM	7:48:34 AM	3
1	91	7:48:36 AM	7:48:43 AM	7
1	92	7:48:38 AM	7:48:54 AM	16
1	93	7:48:40 AM	7:48:56 AM	16
1	94	7:48:48 AM	7:48:58 AM	10



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PO Box 16296
St. Louis Park, MN 55416

File Name : CSAH 50 & Jaguar, AM Delay redo

Site Code : 22712025

Start Date : 12/13/2012

Page No : 3

L n.	No.	Joined Queue	Released From Queue	Delay
1	95	7:48:51 AM	7:49:02 AM	11
1	96	7:50:41 AM	7:50:47 AM	6
1	97	7:50:46 AM	7:50:50 AM	4
1	98	7:51:25 AM	7:51:27 AM	2
1	99	7:51:28 AM	7:51:30 AM	2
1	100	7:51:47 AM	7:51:49 AM	2
1	101	7:52:19 AM	7:52:21 AM	2
1	102	7:52:48 AM	7:52:48 AM	0
1	103	7:53:11 AM	7:53:13 AM	2
1	104	7:53:22 AM	7:53:24 AM	2
1	105	7:53:42 AM	7:54:07 AM	25
1	106	7:53:57 AM	7:54:09 AM	12
1	107	7:54:15 AM	7:54:18 AM	3
1	108	7:54:38 AM	7:54:39 AM	1
1	109	7:55:10 AM	7:55:12 AM	2
1	110	7:55:50 AM	7:56:02 AM	12
1	111	7:56:17 AM	7:56:25 AM	8
1	112	7:56:37 AM	7:56:39 AM	2
1	113	7:57:14 AM	7:57:28 AM	14
1	114	7:57:57 AM	7:58:01 AM	4
1	115	7:58:37 AM	7:59:02 AM	25
1	116	7:58:45 AM	7:59:38 AM	53
1	117	7:59:22 AM	7:59:39 AM	17

Summary Information:

7:00:00 AM - 8:00:00 AM	EB
Total Vehicle Count:	117
Delayed Vehicle Count:	117
Through Vehicle Count:	0
Average Stopped Time:	9.35
Maximum Stopped Time:	53
Min. Secs. for Delay:	0
Average Queue:	0.31
Queue Density:	1.35
Maximum Queue:	4
Delay in Vehicle Hour:	0.31
Total Delay:	1094



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File Name : CSAH 50 & Jaguar, PM Delay

Site Code : 00000018

Start Date : 1/2/2013

Page No : 1

Intersection
City, State

L n.	No.	Joined Queue	Released From Queue	Delay
1	1	2:40:00 PM	2:40:29 PM	29
1	2	2:41:02 PM	2:41:10 PM	8
1	3	2:41:21 PM	2:41:32 PM	11
1	4	2:43:18 PM	2:43:20 PM	2
1	5	2:43:27 PM	2:44:06 PM	39
1	6	2:45:42 PM	2:45:47 PM	5
1	7	2:46:01 PM	2:46:49 PM	48
1	8	2:51:03 PM	2:51:09 PM	6
1	9	2:51:50 PM	2:51:59 PM	9
1	10	2:52:08 PM	2:52:11 PM	3
1	11	2:52:19 PM	2:52:30 PM	11
1	12	2:55:16 PM	2:55:25 PM	9
1	13	2:55:27 PM	2:55:29 PM	2
1	14	2:56:04 PM	2:56:56 PM	52
1	15	2:57:33 PM	2:57:37 PM	4
1	16	2:57:48 PM	2:57:50 PM	2
1	17	2:58:12 PM	2:58:24 PM	12
1	18	2:58:35 PM	2:58:48 PM	13
1	19	2:59:44 PM	3:00:19 PM	35
1	20	3:00:20 PM	3:00:27 PM	7
1	21	3:01:36 PM	3:02:43 PM	67
1	22	3:01:54 PM	3:02:58 PM	64
1	23	3:02:04 PM	3:03:19 PM	75
1	24	3:02:57 PM	3:03:21 PM	24
1	25	3:04:57 PM	3:05:30 PM	33
1	26	3:05:34 PM	3:05:54 PM	20
1	27	3:05:53 PM	3:06:14 PM	21
1	28	3:06:57 PM	3:07:23 PM	26
1	29	3:07:46 PM	3:07:49 PM	3
1	30	3:07:53 PM	3:07:58 PM	5
1	31	3:07:57 PM	3:08:06 PM	9
1	32	3:08:25 PM	3:08:35 PM	10
1	33	3:09:09 PM	3:09:25 PM	16
1	34	3:09:58 PM	3:10:14 PM	16
1	35	3:10:46 PM	3:10:49 PM	3
1	36	3:11:40 PM	3:11:49 PM	9
1	37	3:12:32 PM	3:12:51 PM	19
1	38	3:13:12 PM	3:14:18 PM	66
1	39	3:14:13 PM	3:14:27 PM	14
1	40	3:14:17 PM	3:14:34 PM	17
1	41	3:14:56 PM	3:14:59 PM	3
1	42	3:15:50 PM	3:15:54 PM	4
1	43	3:16:49 PM	3:16:52 PM	3
1	44	3:17:10 PM	3:17:13 PM	3
1	45	3:17:24 PM	3:17:43 PM	19
1	46	3:17:37 PM	3:18:00 PM	23
1	47	3:17:48 PM	3:18:00 PM	12
1	48	3:17:54 PM	3:18:01 PM	7
1	49	3:22:21 PM	3:22:50 PM	29
1	50	3:24:47 PM	3:24:55 PM	8
1	51	3:24:58 PM	3:24:59 PM	1
1	52	3:26:39 PM	3:27:15 PM	36
1	53	3:26:49 PM	3:27:18 PM	29
1	54	3:28:33 PM	3:28:55 PM	22
1	55	3:29:00 PM	3:29:01 PM	1
1	56	3:29:03 PM	3:29:06 PM	3
1	57	3:29:32 PM	3:29:44 PM	12
1	58	3:30:12 PM	3:30:33 PM	21
1	59	3:31:11 PM	3:31:47 PM	36
1	60	3:31:16 PM	3:31:51 PM	35
1	61	3:32:51 PM	3:32:54 PM	3
1	62	3:32:58 PM	3:33:01 PM	3
1	63	3:34:05 PM	3:34:16 PM	11



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File Name : CSAH 50 & Jaguar, PM Delay
Site Code : 00000018
Start Date : 1/2/2013
Page No : 2

L n.	No.	Joined Queue	Released From Queue	Delay
1	64	3:34:57 PM	3:35:01 PM	4
1	65	3:35:50 PM	3:35:56 PM	6
1	66	3:36:48 PM	3:37:03 PM	15
1	67	3:37:39 PM	3:37:42 PM	3
1	68	3:38:00 PM	3:38:47 PM	47
1	69	3:38:43 PM	3:38:50 PM	7
1	70	3:39:39 PM	3:39:45 PM	6
1	71	3:39:56 PM	3:40:01 PM	5

Summary Information:

2:40:00 PM - 3:41:00 PM	EB
Total Vehicle Count:	71
Delayed Vehicle Count:	71
Through Vehicle Count:	0
Average Stopped Time:	17.48
Maximum Stopped Time:	75
Min. Secs. for Delay:	0
Average Queue:	0.34
Queue Density:	1.22
Maximum Queue:	3
Delay in Vehicle Hour:	0.34
Total Delay:	1241

Gap Data



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File Name : CSAH 50 & 188th, AM Gap
 Site Code : 00000003
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & 188th St
 Lakeville, MN

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	152	19	11	6	4	4	0	0	3	2	2	0	2	0	1	5	59	4 - 5
07:15 AM	111	16	8	4	3	2	1	1	0	0	2	1	1	0	2	7	48	6 - 7
07:30 AM	110	9	5	7	5	3	7	3	1	1	2	1	0	0	0	8	52	10 - 11
07:45 AM	142	19	12	7	2	4	3	0	1	2	0	4	1	0	1	5	61	4 - 5
Total	515	63	36	24	14	13	11	4	5	5	6	6	4	0	4	25	220	6 - 7
Grand Total	515	63	36	24	14	13	11	4	5	5	6	6	4	0	4	25	220	6 - 7
Total %		28.6	16.4	10.9	6.4	5.9	5.0	1.8	2.3	2.3	2.7	2.7	1.8	0.0	1.8	11.4		



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File Name : CSAH 50 & 188th, AM Gap
 Site Code : 00000003
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & 188th St
 Lakeville, MN

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	207	33	13	11	10	5	4	1	1	4	3	0	0	0	0	1	86	4 - 5
07:15 AM	238	32	23	9	2	5	1	2	3	0	1	1	1	0	0	0	80	4 - 5
07:30 AM	182	31	13	19	9	2	5	2	4	2	0	0	1	0	1	1	90	6 - 7
07:45 AM	165	26	15	10	6	2	3	6	5	2	1	1	3	0	0	1	81	4 - 5
Total	792	122	64	49	27	14	13	11	13	8	5	2	5	0	1	3	337	4 - 5
Grand Total	792	122	64	49	27	14	13	11	13	8	5	2	5	0	1	3	337	4 - 5
Total %		36.2	19.0	14.5	8.0	4.2	3.9	3.3	3.9	2.4	1.5	0.6	1.5	0.0	0.3	0.9		



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File Name : CSAH 50 & 188th, AM Gap
 Site Code : 00000003
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & 188th St
 Lakeville, MN

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	359	40	20	8	6	4	2	0	1	1	0	0	0	0	0	1	83	4 - 5
07:15 AM	349	42	17	10	3	3	0	2	1	0	1	0	1	0	0	0	80	2 - 3
07:30 AM	292	38	21	17	6	0	4	1	2	1	1	0	0	0	0	1	92	4 - 5
07:45 AM	307	48	16	13	7	2	3	2	1	2	0	0	0	0	0	1	95	2 - 3
Total	1307	168	74	48	22	9	9	5	5	4	2	0	1	0	0	3	350	4 - 5
Grand Total	1307	168	74	48	22	9	9	5	5	4	2	0	1	0	0	3	350	4 - 5
Total %		48.0	21.1	13.7	6.3	2.6	2.6	1.4	1.4	1.1	0.6	0.0	0.3	0.0	0.0	0.9		



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File Name : CSAH 50 & 188th, PM Gap
 Site Code : 00000004
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & 188th St
 Lakeville, MN

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	213	24	14	10	2	4	4	1	1	2	1	3	0	0	0	4	70	4 - 5
04:45 PM	230	41	11	14	8	3	1	2	1	1	0	1	1	2	0	2	88	4 - 5
Total	443	65	25	24	10	7	5	3	2	3	1	4	1	2	0	6	158	4 - 5
05:00 PM	230	24	14	8	8	5	1	1	1	0	3	0	1	0	1	3	70	4 - 5
05:15 PM	240	33	13	6	9	5	2	1	0	2	1	2	0	0	1	1	76	4 - 5
Grand Total	913	122	52	38	27	17	8	5	3	5	5	6	2	2	2	10	304	4 - 5
Total %		40.1	17.1	12.5	8.9	5.6	2.6	1.6	1.0	1.6	1.6	2.0	0.7	0.7	0.7	3.3		



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File Name : CSAH 50 & 188th, PM Gap
 Site Code : 00000004
 Start Date : 12/13/2012
 Page No : 1

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	171	36	19	12	6	2	4	2	2	0	1	4	1	1	1	1	92	4 - 5
04:45 PM	140	42	15	8	6	4	3	2	1	2	2	1	2	0	1	4	93	4 - 5
Total	311	78	34	20	12	6	7	4	3	2	3	5	3	1	2	5	185	4 - 5
05:00 PM	174	36	13	14	8	4	2	6	5	4	0	1	0	0	1	0	94	4 - 5
05:15 PM	129	23	12	9	6	5	2	4	1	2	4	0	0	2	0	5	75	6 - 7
Grand Total	614	137	59	43	26	15	11	14	9	8	7	6	3	3	3	10	354	4 - 5
Total %		38.7	16.7	12.1	7.3	4.2	3.1	4.0	2.5	2.3	2.0	1.7	0.8	0.8	0.8	2.8		



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File Name : CSAH 50 & 188th, PM Gap
 Site Code : 00000004
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & 188th St
 Lakeville, MN

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	384	45	23	8	4	5	3	0	1	1	0	1	0	0	0	0	91	4 - 5
04:45 PM	370	69	23	12	8	1	0	2	1	0	0	0	0	0	0	0	116	2 - 3
Total	754	114	46	20	12	6	3	2	2	1	0	1	0	0	0	0	207	2 - 3
05:00 PM	404	50	21	9	5	3	0	1	2	0	0	0	0	0	0	0	91	2 - 3
05:15 PM	369	48	13	11	7	4	0	1	1	2	0	1	0	0	0	0	88	2 - 3
Grand Total	1527	212	80	40	24	13	3	4	5	3	0	2	0	0	0	0	386	2 - 3
Total %		54.9	20.7	10.4	6.2	3.4	0.8	1.0	1.3	0.8	0.0	0.5	0.0	0.0	0.0	0.0		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, AM Gap

Site Code : 00000007

Start Date : 12/13/2012

Page No : 1

CSAH 50 & 192nd St/KM School North Drive
Lakeville, MN

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	156	19	13	7	5	2	4	1	1	0	1	3	0	0	0	4	60	4 - 5
07:15 AM	84	15	10	6	3	3	0	5	3	1	0	0	2	1	1	6	56	6 - 7
07:30 AM	79	16	6	2	3	4	6	6	1	0	1	2	0	2	0	6	55	10 - 11
07:45 AM	137	20	13	7	4	1	2	5	2	3	0	1	1	2	1	2	64	4 - 5
Total	456	70	42	22	15	10	12	17	7	4	2	6	3	5	2	18	235	6 - 7
Grand Total	456	70	42	22	15	10	12	17	7	4	2	6	3	5	2	18	235	6 - 7
Total %		29.8	17.9	9.4	6.4	4.3	5.1	7.2	3.0	1.7	0.9	2.6	1.3	2.1	0.9	7.7		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, AM Gap

Site Code : 00000007

Start Date : 12/13/2012

Page No : 1

CSAH 50 & 192nd St/KM School North Drive
Lakeville, MN

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	174	27	16	5	8	2	3	4	4	0	0	2	0	0	0	1	72	4 - 5
07:15 AM	194	27	17	14	7	5	4	1	1	0	3	0	0	0	0	0	79	4 - 5
07:30 AM	153	24	8	6	5	6	1	4	2	1	1	1	2	1	0	2	64	6 - 7
07:45 AM	136	18	7	5	5	2	2	4	4	2	2	2	1	1	0	3	58	6 - 7
Total	657	96	48	30	25	15	10	13	11	3	6	5	3	2	0	6	273	4 - 5
Grand Total	657	96	48	30	25	15	10	13	11	3	6	5	3	2	0	6	273	4 - 5
Total %		35.2	17.6	11.0	9.2	5.5	3.7	4.8	4.0	1.1	2.2	1.8	1.1	0.7	0.0	2.2		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, AM Gap

Site Code : 00000007

Start Date : 12/13/2012

Page No : 1

CSAH 50 & 192nd St/KM School North Drive
Lakeville, MN

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	330	40	19	4	4	2	1	0	5	0	0	0	0	0	0	0	75	2 - 3
07:15 AM	278	42	19	8	4	4	3	0	0	0	0	0	0	0	0	0	80	2 - 3
07:30 AM	232	38	15	8	6	3	2	2	1	0	2	1	0	0	0	0	78	4 - 5
07:45 AM	273	39	21	10	8	1	2	0	0	0	0	0	0	0	0	1	82	4 - 5
Total	1113	159	74	30	22	10	8	2	6	0	2	1	0	0	0	1	315	2 - 3
Grand Total	1113	159	74	30	22	10	8	2	6	0	2	1	0	0	0	1	315	2 - 3
Total %		50.5	23.5	9.5	7.0	3.2	2.5	0.6	1.9	0.0	0.6	0.3	0.0	0.0	0.0	0.3		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, PM School Gap

Site Code : 00000012

Start Date : 12/13/2012

Page No : 1

CSAH 50 & KM School North Drive/192nd St
Lakeville, MN

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
01:30 PM	129	19	6	7	3	3	2	2	2	0	1	0	2	1	0	8	56	6 - 7
01:45 PM	155	26	16	11	5	3	2	4	0	2	0	2	1	0	1	4	77	4 - 5
Total	284	45	22	18	8	6	4	6	2	2	1	2	3	1	1	12	133	4 - 5
02:00 PM	161	21	14	6	6	6	4	1	3	0	2	2	0	0	0	5	70	6 - 7
02:15 PM	167	23	16	11	13	5	2	2	2	0	1	1	0	0	1	4	81	6 - 7
Grand Total	612	89	52	35	27	17	10	9	7	2	4	5	3	1	2	21	284	6 - 7
Total %		31.3	18.3	12.3	9.5	6.0	3.5	3.2	2.5	0.7	1.4	1.8	1.1	0.4	0.7	7.4		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, PM School Gap

Site Code : 00000012

Start Date : 12/13/2012

Page No : 1

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
01:30 PM	92	10	6	7	4	4	2	2	2	2	3	2	1	1	0	8	54	10 - 11
01:45 PM	110	19	7	5	8	5	5	2	4	1	2	3	2	1	0	4	68	8 - 9
Total	202	29	13	12	12	9	7	4	6	3	5	5	3	2	0	12	122	8 - 9
02:00 PM	106	22	15	7	8	4	2	3	2	2	1	2	0	2	1	5	76	6 - 7
02:15 PM	103	25	13	5	3	5	2	1	1	3	3	0	2	1	2	6	72	4 - 5
Grand Total	411	76	41	24	23	18	11	8	9	8	9	7	5	5	3	23	270	6 - 7
Total %		28.1	15.2	8.9	8.5	6.7	4.1	3.0	3.3	3.0	3.3	2.6	1.9	1.9	1.1	8.5		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, PM School Gap

Site Code : 00000012

Start Date : 12/13/2012

Page No : 1

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
01:30 PM	221	27	15	16	5	6	3	1	1	3	1	0	3	2	0	0	83	4 - 5
01:45 PM	265	44	24	9	6	7	3	0	1	0	0	2	0	0	1	1	98	4 - 5
Total	486	71	39	25	11	13	6	1	2	3	1	2	3	2	1	1	181	4 - 5
02:00 PM	267	41	20	8	5	6	4	3	1	0	1	0	0	1	1	1	92	4 - 5
02:15 PM	270	40	24	10	4	6	0	2	2	1	2	0	1	1	1	1	95	4 - 5
Grand Total	1023	152	83	43	20	25	10	6	5	4	4	2	4	4	3	3	368	4 - 5
Total %		41.3	22.6	11.7	5.4	6.8	2.7	1.6	1.4	1.1	1.1	0.5	1.1	1.1	0.8	0.8		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, PM Gap

Site Code : 00000008

Start Date : 12/13/2012

Page No : 1

CSAH 50 & KM School North Drive/192nd St
Lakeville, MN

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	215	20	12	10	7	4	2	1	1	0	1	2	0	1	1	3	65	6 - 7
04:45 PM	232	23	17	7	4	3	4	1	3	1	1	0	0	2	1	1	68	4 - 5
Total	447	43	29	17	11	7	6	2	4	1	2	2	0	3	2	4	133	4 - 5
05:00 PM	214	23	14	14	9	5	2	3	2	1	0	2	0	1	0	1	77	6 - 7
05:15 PM	236	35	15	8	4	2	6	1	0	1	1	1	1	0	1	1	77	4 - 5
Grand Total	897	101	58	39	24	14	14	6	6	3	3	5	1	4	3	6	287	4 - 5
Total %		35.2	20.2	13.6	8.4	4.9	4.9	2.1	2.1	1.0	1.0	1.7	0.3	1.4	1.0	2.1		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, PM Gap

Site Code : 00000008

Start Date : 12/13/2012

Page No : 1

CSAH 50 & KM School North Drive/192nd St
Lakeville, MN

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	158	27	12	5	7	7	1	3	4	2	3	1	0	0	2	2	76	4 - 5
04:45 PM	125	28	18	8	9	1	1	2	1	0	1	1	0	0	2	7	79	4 - 5
Total	283	55	30	13	16	8	2	5	5	2	4	2	0	0	4	9	155	4 - 5
05:00 PM	160	23	18	5	3	7	3	2	1	4	2	1	2	0	1	2	74	4 - 5
05:15 PM	116	13	10	10	4	7	3	4	2	0	5	2	2	1	2	2	67	8 - 9
Grand Total	559	91	58	28	23	22	8	11	8	6	11	5	4	1	7	13	296	4 - 5
Total %		30.7	19.6	9.5	7.8	7.4	2.7	3.7	2.7	2.0	3.7	1.7	1.4	0.3	2.4	4.4		



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File Name : CSAH 50 & 192nd St-KM School North Driveway, PM Gap

Site Code : 00000008

Start Date : 12/13/2012

Page No : 1

CSAH 50 & KM School North Drive/192nd St
Lakeville, MN

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	373	36	19	5	6	6	1	1	2	2	0	0	0	1	0	0	79	4 - 5
04:45 PM	357	53	15	5	5	0	2	0	1	1	2	0	1	0	0	0	85	2 - 3
Total	730	89	34	10	11	6	3	1	3	3	2	0	1	1	0	0	164	2 - 3
05:00 PM	374	49	16	9	5	5	1	0	3	1	0	0	0	0	0	0	89	2 - 3
05:15 PM	352	40	19	9	4	4	2	4	0	0	1	0	1	0	0	0	84	4 - 5
Grand Total	1456	178	69	28	20	15	6	5	6	4	3	0	2	1	0	0	337	2 - 3
Total %		52.8	20.5	8.3	5.9	4.5	1.8	1.5	1.8	1.2	0.9	0.0	0.6	0.3	0.0	0.0		



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File Name : CSAH 50 & KM School South Driveway, AM Gap

Site Code : 00000015

Start Date : 12/13/2012

Page No : 1

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	84	10	8	8	3	5	5	1	1	3	2	0	0	1	1	9	57	8 - 9
07:15 AM	80	11	7	6	3	6	1	3	1	1	2	1	0	1	0	8	51	8 - 9
07:30 AM	81	9	5	6	4	2	5	3	3	2	1	1	0	0	2	7	50	10 - 11
07:45 AM	117	17	12	14	5	4	4	2	1	4	1	1	2	2	1	3	73	6 - 7
Total	362	47	32	34	15	17	15	9	6	10	6	3	2	4	4	27	231	8 - 9
Grand Total	362	47	32	34	15	17	15	9	6	10	6	3	2	4	4	27	231	8 - 9
Total %		20.3	13.9	14.7	6.5	7.4	6.5	3.9	2.6	4.3	2.6	1.3	0.9	1.7	1.7	11.7		



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File Name : CSAH 50 & KM School South Driveway, AM Gap

Site Code : 00000015

Start Date : 12/13/2012

Page No : 1

CSAH 50 & KN School South Driveway
Lakeville, MN

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	186	36	6	16	4	7	3	3	0	3	2	2	0	0	1	1	84	6 - 7
07:15 AM	175	34	11	15	8	8	3	1	5	2	1	2	0	0	1	1	92	6 - 7
07:30 AM	155	24	14	5	6	5	6	4	1	2	4	0	0	2	1	3	77	6 - 7
07:45 AM	140	27	13	6	3	1	3	5	2	0	5	1	2	0	1	4	73	4 - 5
Total	656	121	44	42	21	21	15	13	8	7	12	5	2	2	4	9	326	4 - 5
Grand Total	656	121	44	42	21	21	15	13	8	7	12	5	2	2	4	9	326	4 - 5
Total %		37.1	13.5	12.9	6.4	6.4	4.6	4.0	2.5	2.1	3.7	1.5	0.6	0.6	1.2	2.8		



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File Name : CSAH 50 & KM School South Driveway, AM Gap
 Site Code : 00000015
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & KN School South Driveway
 Lakeville, MN

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	270	40	14	16	7	4	2	3	1	3	1	0	0	0	0	0	91	4 - 5
07:15 AM	255	49	19	16	7	9	4	2	0	1	0	0	0	0	0	1	108	4 - 5
07:30 AM	236	39	17	13	9	5	2	3	1	2	1	0	0	0	2	1	95	4 - 5
07:45 AM	257	36	19	12	6	4	7	3	2	1	1	0	1	0	1	0	93	4 - 5
Total	1018	164	69	57	29	22	15	11	4	7	3	0	1	0	3	2	387	4 - 5
Grand Total	1018	164	69	57	29	22	15	11	4	7	3	0	1	0	3	2	387	4 - 5
Total %		42.4	17.8	14.7	7.5	5.7	3.9	2.8	1.0	1.8	0.8	0.0	0.3	0.0	0.8	0.5		



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File Name : CSAH 50 & KM School South Driveway, PM School Gap
 Site Code : 00000016
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & KM School South Driveway
 Lakeville, MN

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
01:30 PM	117	15	11	10	4	4	1	2	2	1	1	1	0	1	0	7	60	6 - 7
01:45 PM	130	25	10	9	4	5	2	4	1	0	0	1	1	1	0	6	69	4 - 5
Total	247	40	21	19	8	9	3	6	3	1	1	2	1	2	0	13	129	6 - 7
02:00 PM	135	24	13	4	5	3	5	4	2	2	1	0	1	0	1	4	69	4 - 5
02:15 PM	150	25	12	6	10	3	3	2	3	2	0	1	1	0	1	5	74	6 - 7
Grand Total	532	89	46	29	23	15	11	12	8	5	2	3	3	2	2	22	272	6 - 7
Total %		32.7	16.9	10.7	8.5	5.5	4.0	4.4	2.9	1.8	0.7	1.1	1.1	0.7	0.7	8.1		



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File Name : CSAH 50 & KM School South Driveway, PM School Gap

Site Code : 00000016

Start Date : 12/13/2012

Page No : 1

CSAH 50 & KM School South Driveway
Lakeville, MN

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
01:30 PM	94	11	5	8	6	2	1	2	3	4	3	1	0	0	1	8	55	8 - 9
01:45 PM	123	16	9	2	6	1	5	2	1	1	5	3	0	3	1	3	58	8 - 9
Total	217	27	14	10	12	3	6	4	4	5	8	4	0	3	2	11	113	8 - 9
02:00 PM	90	20	7	5	3	2	5	3	2	2	2	3	0	1	2	5	62	6 - 7
02:15 PM	107	22	11	4	4	5	6	1	3	4	2	0	1	0	1	6	70	6 - 7
Grand Total	414	69	32	19	19	10	17	8	9	11	12	7	1	4	5	22	245	8 - 9
Total %		28.2	13.1	7.8	7.8	4.1	6.9	3.3	3.7	4.5	4.9	2.9	0.4	1.6	2.0	9.0		



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File Name : CSAH 50 & KM School South Driveway, PM School Gap
 Site Code : 00000016
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & KM School South Driveway
 Lakeville, MN

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
01:30 PM	211	26	14	13	10	3	3	3	2	1	0	0	0	0	2	3	80	6 - 7
01:45 PM	253	29	15	11	7	5	5	2	0	3	1	1	0	1	0	0	80	4 - 5
Total	464	55	29	24	17	8	8	5	2	4	1	1	0	1	2	3	160	4 - 5
02:00 PM	225	53	17	11	3	5	6	3	1	0	1	2	0	0	1	0	103	2 - 3
02:15 PM	257	53	11	10	7	6	2	1	3	3	1	0	1	0	0	1	99	2 - 3
Grand Total	946	161	57	45	27	19	16	9	6	7	3	3	1	1	3	4	362	4 - 5
Total %		44.5	15.7	12.4	7.5	5.2	4.4	2.5	1.7	1.9	0.8	0.8	0.3	0.3	0.8	1.1		



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File Name : CSAH 50 & Jaguar, AM Gap
Site Code : 00000019
Start Date : 12/13/2012
Page No : 1

CSAH 50 & Jaguar Ave
Lakeville, MN

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	87	12	10	6	4	5	4	3	1	3	3	3	0	1	1	7	63	8 - 9
07:15 AM	99	18	11	12	5	6	2	1	3	2	2	0	0	0	2	5	69	6 - 7
07:30 AM	79	12	3	5	8	4	4	5	3	0	0	1	1	0	2	7	55	8 - 9
07:45 AM	114	19	15	11	5	4	5	1	1	1	4	2	0	3	0	5	76	6 - 7
Total	379	61	39	34	22	19	15	10	8	6	9	6	1	4	5	24	263	6 - 7
Grand Total	379	61	39	34	22	19	15	10	8	6	9	6	1	4	5	24	263	6 - 7
Total %		23.2	14.8	12.9	8.4	7.2	5.7	3.8	3.0	2.3	3.4	2.3	0.4	1.5	1.9	9.1		



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File Name : CSAH 50 & Jaguar, PM Gap
 Site Code : 00000020
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & Jaguar Ave
 Lakeville, MN

Directions Printed: Southbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	181	38	12	12	5	3	2	2	2	0	1	1	1	3	0	4	86	4 - 5
04:45 PM	197	39	20	9	3	6	3	5	3	2	0	0	0	2	2	1	95	4 - 5
Total	378	77	32	21	8	9	5	7	5	2	1	1	1	5	2	5	181	4 - 5
05:00 PM	195	16	21	16	10	4	3	5	3	1	1	1	0	0	0	1	82	6 - 7
05:15 PM	217	17	15	8	1	3	3	4	5	0	1	2	0	1	0	2	62	4 - 5
Grand Total	790	110	68	45	19	16	11	16	13	3	3	4	1	6	2	8	325	4 - 5
Total %		33.8	20.9	13.8	5.8	4.9	3.4	4.9	4.0	0.9	0.9	1.2	0.3	1.8	0.6	2.5		



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File Name : CSAH 50 & Jaguar, AM Gap
 Site Code : 00000019
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & Jaguar Ave
 Lakeville, MN

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	262	54	13	10	9	4	7	4	1	0	2	0	1	0	0	0	105	2 - 3
07:15 AM	269	36	25	10	10	5	4	1	1	3	1	1	0	1	0	0	98	4 - 5
07:30 AM	230	48	21	9	10	5	5	2	1	2	1	1	1	1	0	0	107	4 - 5
07:45 AM	247	39	26	7	5	5	5	3	1	1	2	2	0	1	0	1	98	4 - 5
Total	1008	177	85	36	34	19	21	10	4	6	6	4	2	3	0	1	408	4 - 5
Grand Total	1008	177	85	36	34	19	21	10	4	6	6	4	2	3	0	1	408	4 - 5
Total %		43.4	20.8	8.8	8.3	4.7	5.1	2.5	1.0	1.5	1.5	1.0	0.5	0.7	0.0	0.2		



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File Name : CSAH 50 & Jaguar, AM Gap
 Site Code : 00000019
 Start Date : 12/13/2012
 Page No : 1

CSAH 50 & Jaguar Ave
 Lakeville, MN

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
07:00 AM	175	28	12	7	6	5	2	2	5	2	3	1	2	0	1	2	78	4 - 5
07:15 AM	170	16	14	7	4	8	5	1	1	3	3	2	0	4	0	2	70	6 - 7
07:30 AM	151	27	14	7	3	4	10	1	1	2	3	2	1	2	1	2	80	4 - 5
07:45 AM	133	19	15	3	2	2	2	4	1	2	3	2	0	0	3	4	62	4 - 5
Total	629	90	55	24	15	19	19	8	8	9	12	7	3	6	5	10	290	6 - 7
Grand Total	629	90	55	24	15	19	19	8	8	9	12	7	3	6	5	10	290	6 - 7
Total %		31.0	19.0	8.3	5.2	6.6	6.6	2.8	2.8	3.1	4.1	2.4	1.0	2.1	1.7	3.4		



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File Name : CSAH 50 & Jaguar, PM Gap
Site Code : 00000020
Start Date : 12/13/2012
Page No : 1

CSAH 50 & Jaguar Ave
Lakeville, MN

Directions Printed: Northbound

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	163	34	11	4	3	4	7	3	2	1	0	1	2	0	2	4	78	4 - 5
04:45 PM	115	26	17	11	2	3	2	3	2	1	1	2	2	1	1	6	80	4 - 5
Total	278	60	28	15	5	7	9	6	4	2	1	3	4	1	3	10	158	4 - 5
05:00 PM	161	23	15	10	5	1	6	0	0	3	0	4	2	1	1	2	73	4 - 5
05:15 PM	121	16	11	3	2	6	1	0	1	0	3	1	1	1	0	7	53	4 - 5
Grand Total	560	99	54	28	12	14	16	6	5	5	4	8	7	3	4	19	284	4 - 5
Total %		34.9	19.0	9.9	4.2	4.9	5.6	2.1	1.8	1.8	1.4	2.8	2.5	1.1	1.4	6.7		



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File Name : CSAH 50 & Jaguar, PM Gap
Site Code : 00000020
Start Date : 12/13/2012
Page No : 1

CSAH 50 & Jaguar Ave
Lakeville, MN

Directions Printed: Combined

Start Time	Volume	2 - 3	4 - 5	6 - 7	8 - 9	10 - 11	12 - 13	14 - 15	16 - 17	18 - 19	20 - 21	22 - 23	24 - 25	26 - 27	28 - 29	>29	Int. Total	Average
04:30 PM	344	54	21	9	5	3	3	3	2	0	0	0	2	0	0	0	102	2 - 3
04:45 PM	312	60	29	10	5	7	4	0	1	1	1	0	0	1	0	0	119	2 - 3
Total	656	114	50	19	10	10	7	3	3	1	1	0	2	1	0	0	221	2 - 3
05:00 PM	356	45	28	10	4	2	4	1	1	1	0	0	0	0	0	0	96	4 - 5
05:15 PM	338	29	13	10	1	4	2	3	1	0	1	0	0	0	2	0	66	4 - 5
Grand Total	1350	188	91	39	15	16	13	7	5	2	2	0	2	1	2	0	383	4 - 5
Total %		49.1	23.8	10.2	3.9	4.2	3.4	1.8	1.3	0.5	0.5	0.0	0.5	0.3	0.5	0.0		