

ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

US 169 & W River Rd
 City: Champlin
 data by: Miovision
 TURN MOVEMENT COUNT

File Name : US 169 & W River Rd_2021
 Site Code : 1935921
 Start Date : 11/3/2021
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	US 169 Southbound					W River Rd Westbound					US 169 Northbound					Dean Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
12:00 AM	3	22	0	0	25	0	0	4	0	4	0	30	0	0	30	0	0	0	0	0	59
12:15 AM	3	10	0	0	13	0	0	2	0	2	0	25	1	0	26	0	0	0	1	1	42
12:30 AM	1	16	0	0	17	1	0	1	0	2	2	24	1	0	27	0	0	0	0	0	46
12:45 AM	1	14	0	0	15	0	0	6	0	6	0	23	0	0	23	0	0	0	0	0	44
Total	8	62	0	0	70	1	0	13	0	14	2	102	2	0	106	0	0	0	1	1	191
01:00 AM	3	24	0	0	27	0	0	5	0	5	0	26	0	0	26	0	0	0	0	0	58
01:15 AM	4	17	0	0	21	0	0	3	0	3	0	27	0	0	27	0	0	0	0	0	51
01:30 AM	4	17	0	0	21	0	0	2	0	2	0	12	0	0	12	0	0	0	0	0	35
01:45 AM	3	10	0	0	13	1	0	1	0	2	0	11	0	0	11	0	0	1	0	1	27
Total	14	68	0	0	82	1	0	11	0	12	0	76	0	0	76	0	0	1	0	1	171
02:00 AM	1	23	0	0	24	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	40
02:15 AM	0	25	0	0	25	0	0	4	0	4	0	20	0	0	20	0	0	0	0	0	49
02:30 AM	0	11	0	0	11	0	0	4	0	4	0	12	0	0	12	0	0	0	0	0	27
02:45 AM	1	12	0	0	13	0	0	1	0	1	0	13	0	0	13	0	0	0	0	0	27
Total	2	71	0	0	73	0	0	9	0	9	0	61	0	0	61	0	0	0	0	0	143
03:00 AM	0	19	0	0	19	0	0	1	0	1	0	13	0	0	13	0	0	0	0	0	33
03:15 AM	2	36	0	0	38	0	0	2	0	2	1	10	0	0	11	0	0	0	0	0	51
03:30 AM	1	55	0	0	56	0	0	1	0	1	0	12	0	0	12	0	0	0	0	0	69
03:45 AM	0	47	0	0	47	0	0	2	0	2	1	12	0	0	13	0	0	1	0	1	63
Total	3	157	0	0	160	0	0	6	0	6	2	47	0	0	49	0	0	1	0	1	216
04:00 AM	1	62	0	0	63	0	0	1	0	1	0	21	0	0	21	0	1	0	0	1	86
04:15 AM	2	77	0	0	79	0	0	6	0	6	0	23	0	0	23	0	0	0	0	0	108
04:30 AM	6	164	0	0	170	0	1	9	0	10	2	30	0	0	32	1	0	1	0	2	214
04:45 AM	1	151	0	0	152	0	0	7	0	7	0	36	0	0	36	0	0	2	0	2	197
Total	10	454	0	0	464	0	1	23	0	24	2	110	0	0	112	1	1	3	0	5	605
05:00 AM	7	187	0	0	194	0	0	10	0	10	0	38	1	0	39	0	1	0	0	1	244
05:15 AM	9	227	0	0	236	0	1	14	0	15	1	44	4	0	49	0	1	2	0	3	303
05:30 AM	25	326	0	0	351	0	0	20	0	20	0	78	8	0	86	0	0	3	0	3	460
05:45 AM	27	322	0	0	349	0	0	26	0	26	0	114	10	0	124	1	1	1	0	3	502
Total	68	1062	0	0	1130	0	1	70	0	71	1	274	23	0	298	1	3	6	0	10	1509
06:00 AM	34	341	0	0	375	0	0	35	0	35	0	106	7	0	113	0	2	4	0	6	529
06:15 AM	42	416	0	0	458	1	0	39	0	40	4	132	2	0	138	0	1	8	0	9	645
06:30 AM	54	486	0	0	540	0	1	48	0	49	1	210	9	0	220	1	3	2	0	6	815
06:45 AM	63	435	0	0	498	0	4	56	0	60	2	177	10	0	189	2	0	1	0	3	750
Total	193	1678	0	0	1871	1	5	178	0	184	7	625	28	0	660	3	6	15	0	24	2739
07:00 AM	49	441	0	0	490	1	3	51	0	55	3	190	4	0	197	2	8	2	0	12	754
07:15 AM	103	529	1	0	633	0	5	66	0	71	4	214	0	0	218	2	6	8	0	16	938
07:30 AM	61	523	2	0	586	0	4	101	0	105	8	202	1	0	211	2	7	8	0	17	919
07:45 AM	48	490	5	0	543	2	15	58	0	75	7	271	2	0	280	1	4	4	0	9	907
Total	261	1983	8	0	2252	3	27	276	0	306	22	877	7	0	906	7	25	22	0	54	3518
08:00 AM	40	349	0	0	389	4	7	39	0	50	4	232	0	0	236	2	6	11	0	19	694
08:15 AM	32	379	1	0	412	1	8	47	0	56	2	191	6	0	199	2	2	6	0	10	677
08:30 AM	24	367	0	0	391	1	1	46	0	48	4	213	0	0	217	5	3	6	0	14	670
08:45 AM	28	327	2	0	357	3	4	46	0	53	2	194	3	0	199	2	5	8	0	15	624
Total	124	1422	3	0	1549	9	20	178	0	207	12	830	9	0	851	11	16	31	0	58	2665
09:00 AM	34	311	2	0	347	5	1	35	0	41	4	178	0	0	182	6	1	6	0	13	583

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Groups Printed- Cars - Trucks

Start Time	US 169 Southbound					W River Rd Westbound					US 169 Northbound					Dean Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
09:15 AM	28	313	1	0	342	1	0	34	0	35	3	175	0	0	178	2	3	5	0	10	565
09:30 AM	18	333	0	0	351	5	2	47	0	54	2	299	0	0	301	4	0	3	0	7	713
09:45 AM	47	309	0	0	356	1	0	43	0	44	5	236	2	0	243	4	1	2	0	7	650
Total	127	1266	3	0	1396	12	3	159	0	174	14	888	2	0	904	16	5	16	0	37	2511
10:00 AM	18	239	0	0	257	1	4	31	0	36	9	206	1	0	216	2	3	2	0	7	516
10:15 AM	24	263	0	0	287	3	4	40	0	47	2	199	1	0	202	0	0	4	0	4	540
10:30 AM	19	253	0	0	272	0	3	42	0	45	8	221	4	0	233	6	1	7	0	14	564
10:45 AM	30	273	2	0	305	2	3	30	0	35	11	210	4	0	225	4	4	3	0	11	576
Total	91	1028	2	0	1121	6	14	143	0	163	30	836	10	0	876	12	8	16	0	36	2196
11:00 AM	23	236	1	0	260	3	4	33	0	40	10	220	5	0	235	4	5	9	0	18	553
11:15 AM	39	281	1	0	321	2	4	38	0	44	4	220	2	0	226	2	2	9	0	13	604
11:30 AM	25	296	0	0	321	2	2	48	0	52	4	256	3	0	263	0	4	13	0	17	653
11:45 AM	29	274	1	0	304	4	2	40	0	46	9	271	5	0	285	1	3	9	0	13	648
Total	116	1087	3	0	1206	11	12	159	0	182	27	967	15	0	1009	7	14	40	0	61	2458
12:00 PM	30	238	2	0	270	2	1	47	0	50	6	223	5	0	234	10	1	9	0	20	574
12:15 PM	28	261	2	0	291	2	1	52	0	55	7	215	2	0	224	5	2	11	0	18	588
12:30 PM	40	284	1	0	325	2	3	39	0	44	6	283	3	0	292	6	1	8	0	15	676
12:45 PM	25	275	4	0	304	4	2	40	0	46	7	266	2	0	275	4	2	11	0	17	642
Total	123	1058	9	0	1190	10	7	178	0	195	26	987	12	0	1025	25	6	39	0	70	2480
01:00 PM	32	248	1	0	281	3	1	47	0	51	9	273	2	0	284	2	1	5	0	8	624
01:15 PM	32	289	0	0	321	2	4	51	0	57	8	283	1	0	292	10	1	4	0	15	685
01:30 PM	29	236	0	0	265	0	2	48	0	50	6	302	3	0	311	6	1	4	0	11	637
01:45 PM	41	289	2	0	332	9	4	52	1	66	8	320	4	0	332	3	1	7	0	11	741
Total	134	1062	3	0	1199	14	11	198	1	224	31	1178	10	0	1219	21	4	20	0	45	2687
02:00 PM	47	243	1	0	291	5	2	40	0	47	13	331	1	0	345	3	3	6	0	12	695
02:15 PM	38	315	0	0	353	14	10	57	0	81	15	360	0	0	375	4	2	6	0	12	821
02:30 PM	30	232	2	0	264	1	13	62	0	76	11	382	1	0	394	6	5	6	0	17	751
02:45 PM	49	270	1	0	320	3	6	78	0	87	7	366	2	0	375	2	5	9	0	16	798
Total	164	1060	4	0	1228	23	31	237	0	291	46	1439	4	0	1489	15	15	27	0	57	3065
03:00 PM	46	264	4	0	314	5	3	83	0	91	8	404	1	0	413	1	3	13	0	17	835
03:15 PM	44	296	3	0	343	4	4	70	0	78	10	435	4	0	449	4	1	10	0	15	885
03:30 PM	67	339	4	0	410	5	10	100	0	115	8	463	1	0	472	5	6	7	0	18	1015
03:45 PM	70	295	2	0	367	3	5	83	0	91	5	466	1	1	473	6	6	7	0	19	950
Total	227	1194	13	0	1434	17	22	336	0	375	31	1768	7	1	1807	16	16	37	0	69	3685
04:00 PM	47	284	6	0	337	4	6	93	0	103	5	421	2	0	428	4	3	4	0	11	879
04:15 PM	78	313	1	0	392	1	12	108	0	121	7	450	1	0	458	5	5	5	0	15	986
04:30 PM	60	329	3	0	392	3	11	94	0	108	6	400	1	0	407	4	9	14	0	27	934
04:45 PM	72	355	2	0	429	3	16	96	0	115	16	389	2	1	408	5	4	11	1	21	973
Total	257	1281	12	0	1550	11	45	391	0	447	34	1660	6	1	1701	18	21	34	1	74	3772
05:00 PM	58	319	1	0	378	7	14	72	1	94	13	462	0	0	475	1	2	11	0	14	961
05:15 PM	55	291	3	0	349	3	11	90	0	104	14	420	0	0	434	8	7	9	0	24	911
05:30 PM	47	298	2	0	347	1	8	70	0	79	15	401	1	0	417	5	1	10	0	16	859
05:45 PM	49	257	2	0	308	1	2	80	2	85	12	361	4	0	377	6	3	11	0	20	790
Total	209	1165	8	0	1382	12	35	312	3	362	54	1644	5	0	1703	20	13	41	0	74	3521
06:00 PM	36	275	0	0	311	4	7	72	1	84	8	366	0	0	374	10	8	14	0	32	801
06:15 PM	51	253	2	0	306	1	3	54	0	58	7	340	1	0	348	7	4	5	0	16	728
06:30 PM	46	260	2	0	308	1	5	52	0	58	6	332	4	0	342	3	2	12	0	17	725
06:45 PM	33	225	1	0	259	4	2	35	0	41	8	312	1	0	321	2	4	9	0	15	636
Total	166	1013	5	0	1184	10	17	213	1	241	29	1350	6	0	1385	22	18	40	0	80	2890

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 Start Date : 11/3/2021
 Page No : 3

Groups Printed- Cars - Trucks

Start Time	US 169 Southbound					W River Rd Westbound					US 169 Northbound					Dean Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
07:00 PM	41	227	0	0	268	2	1	34	0	37	6	246	0	0	252	3	4	7	0	14	571
07:15 PM	35	172	2	0	209	1	4	19	0	24	8	242	1	0	251	2	3	4	0	9	493
07:30 PM	41	163	1	0	205	0	5	37	0	42	3	201	2	0	206	3	1	6	0	10	463
07:45 PM	31	136	1	0	168	0	2	33	0	35	4	188	1	0	193	6	3	4	0	13	409
Total	148	698	4	0	850	3	12	123	0	138	21	877	4	0	902	14	11	21	0	46	1936
08:00 PM	20	169	0	0	189	1	3	26	0	30	3	189	1	0	193	2	1	4	0	7	419
08:15 PM	34	126	1	0	161	1	3	29	0	33	3	212	1	0	216	2	0	1	0	3	413
08:30 PM	22	101	0	0	123	2	1	29	0	32	1	181	2	0	184	5	1	3	0	9	348
08:45 PM	23	128	1	0	152	2	1	12	0	15	0	199	1	0	200	5	0	1	0	6	373
Total	99	524	2	0	625	6	8	96	0	110	7	781	5	0	793	14	2	9	0	25	1553
09:00 PM	25	116	0	0	141	3	3	28	0	34	4	183	0	0	187	1	2	5	0	8	370
09:15 PM	19	96	0	0	115	0	0	14	0	14	1	139	1	0	141	1	0	1	0	2	272
09:30 PM	15	89	0	0	104	1	0	14	0	15	3	142	1	0	146	2	1	2	0	5	270
09:45 PM	15	73	0	0	88	0	1	17	0	18	2	115	1	0	118	0	0	1	1	2	226
Total	74	374	0	0	448	4	4	73	0	81	10	579	3	0	592	4	3	9	1	17	1138
10:00 PM	11	54	0	0	65	0	0	11	0	11	0	131	1	0	132	0	0	1	0	1	209
10:15 PM	19	58	0	0	77	1	1	12	0	14	1	110	1	0	112	0	0	0	0	0	203
10:30 PM	10	54	0	0	64	0	0	8	0	8	0	82	1	0	83	1	0	0	0	1	156
10:45 PM	8	43	0	0	51	0	0	16	0	16	2	69	0	0	71	0	0	2	0	2	140
Total	48	209	0	0	257	1	1	47	0	49	3	392	3	0	398	1	0	3	0	4	708
11:00 PM	8	44	1	0	53	0	0	7	0	7	0	59	0	0	59	1	0	0	0	1	120
11:15 PM	9	36	0	0	45	0	1	5	0	6	0	50	0	0	50	0	0	0	0	0	101
11:30 PM	8	37	0	0	45	1	0	7	0	8	2	37	0	0	39	0	0	0	0	0	92
11:45 PM	4	34	0	0	38	1	1	6	0	8	0	35	0	0	35	0	0	2	0	2	83
Total	29	151	1	0	181	2	2	25	0	29	2	181	0	0	183	1	0	2	0	3	396
Grand Total	2695	20127	80	0	22902	157	278	3454	5	3894	413	18529	161	2	19105	229	187	433	3	852	46753
Apprch %	11.8	87.9	0.3	0		4	7.1	88.7	0.1		2.2	97	0.8	0		26.9	21.9	50.8	0.4		
Total %	5.8	43	0.2	0	49	0.3	0.6	7.4	0	8.3	0.9	39.6	0.3	0	40.9	0.5	0.4	0.9	0	1.8	
Cars	2636	19297	80	0	22013	149	265	3371	0	3785	404	17710	155	1	18270	225	182	422	3	832	44900
% Cars	97.8	95.9	100	0	96.1	94.9	95.3	97.6	0	97.2	97.8	95.6	96.3	50	95.6	98.3	97.3	97.5	100	97.7	96
Trucks	59	830	0	0	889	8	13	83	5	109	9	819	6	1	835	4	5	11	0	20	1853
% Trucks	2.2	4.1	0	0	3.9	5.1	4.7	2.4	100	2.8	2.2	4.4	3.7	50	4.4	1.7	2.7	2.5	0	2.3	4

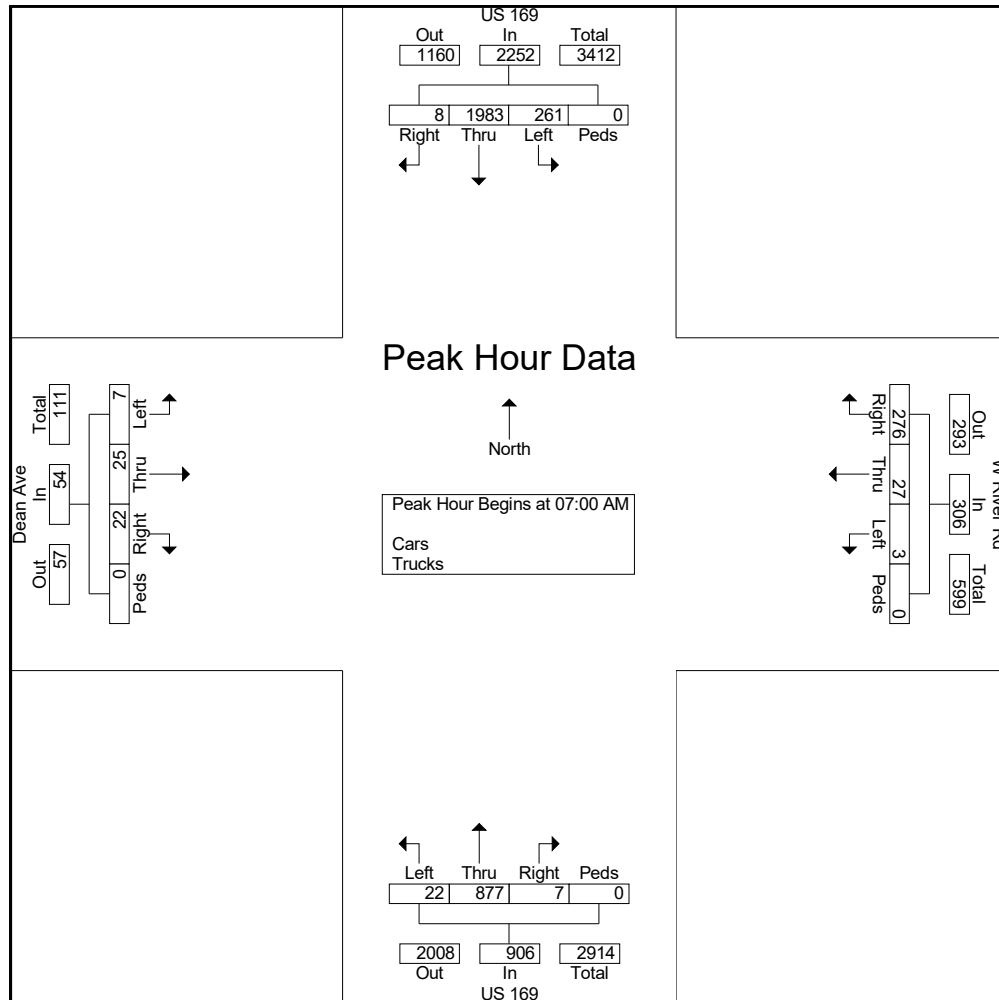
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	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 12:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	49	441	0	0	490	1	3	51	0	55	3	190	4	0	197	2	8	2	0	12	754
07:15 AM	103	529	1	0	633	0	5	66	0	71	4	214	0	0	218	2	6	8	0	16	938
07:30 AM	61	523	2	0	586	0	4	101	0	105	8	202	1	0	211	2	7	8	0	17	919
07:45 AM	48	490	5	0	543	2	15	58	0	75	7	271	2	0	280	1	4	4	0	9	907
Total Volume	261	1983	8	0	2252	3	27	276	0	306	22	877	7	0	906	7	25	22	0	54	3518
% App. Total	11.6	88.1	0.4	0		1	8.8	90.2	0		2.4	96.8	0.8	0		13	46.3	40.7	0		
PHF	.633	.937	.400	.000	.889	.375	.450	.683	.000	.729	.688	.809	.438	.000	.809	.875	.781	.688	.000	.794	.938



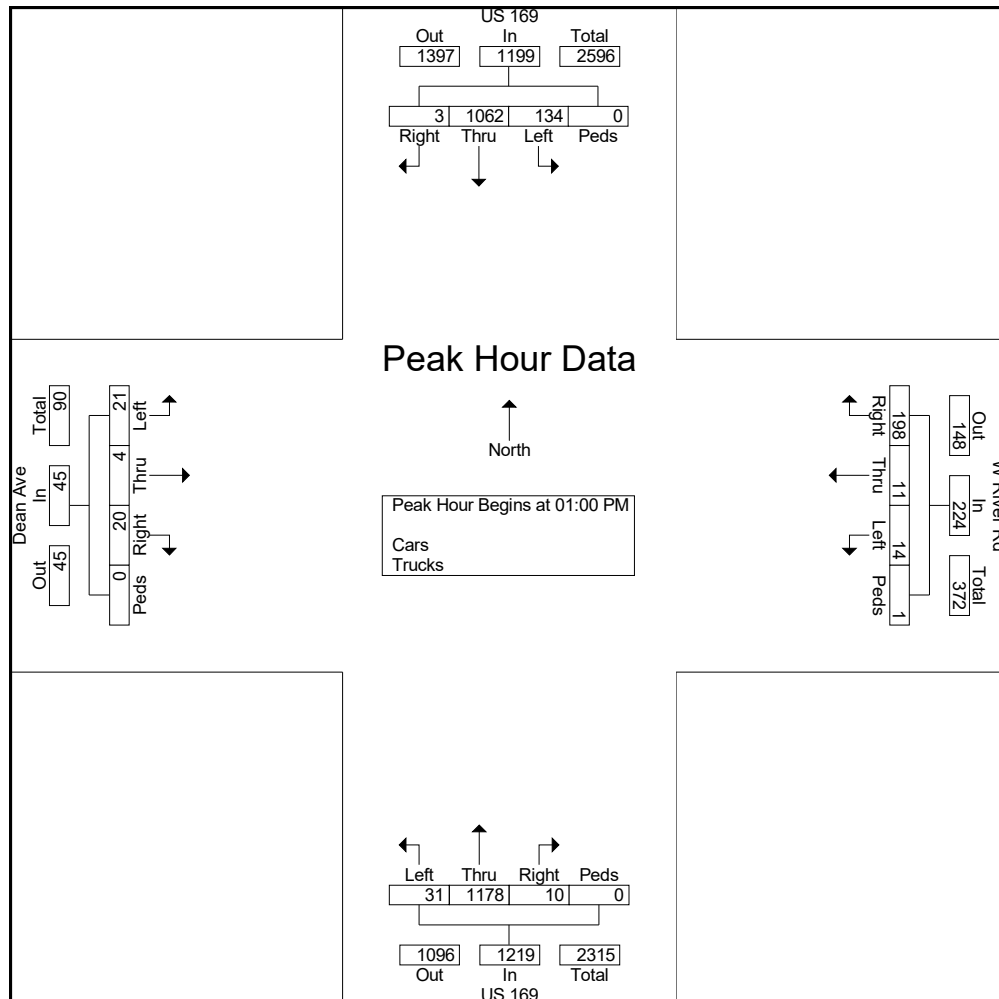
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Start Time	US 169 Southbound					W River Rd Westbound					US 169 Northbound					Dean Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	32	248	1	0	281	3	1	47	0	51	9	273	2	0	284	2	1	5	0	8	624
01:15 PM	32	289	0	0	321	2	4	51	0	57	8	283	1	0	292	10	1	4	0	15	685
01:30 PM	29	236	0	0	265	0	2	48	0	50	6	302	3	0	311	6	1	4	0	11	637
01:45 PM	41	289	2	0	332	9	4	52	1	66	8	320	4	0	332	3	1	7	0	11	741
Total Volume	134	1062	3	0	1199	14	11	198	1	224	31	1178	10	0	1219	21	4	20	0	45	2687
% App. Total	11.2	88.6	0.3	0		6.2	4.9	88.4	0.4		2.5	96.6	0.8	0		46.7	8.9	44.4	0		
PHF	.817	.919	.375	.000	.903	.389	.688	.952	.250	.848	.861	.920	.625	.000	.918	.525	1.00	.714	.000	.750	.907



ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

US 169 & W River Rd
 City: Champlin
 data by: Miovision
 TURN MOVEMENT COUNT

File Name : US 169 & W River Rd_2021
 Site Code : 1935921
 Start Date : 11/3/2021
 Page No : 6

Start Time	US 169 Southbound					W River Rd Westbound					US 169 Northbound					Dean Ave Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 11:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	78	313	1	0	392	1	12	108	0	121	7	450	1	0	458	5	5	5	0	15	986
04:30 PM	60	329	3	0	392	3	11	94	0	108	6	400	1	0	407	4	9	14	0	27	934
04:45 PM	72	355	2	0	429	3	16	96	0	115	16	389	2	1	408	5	4	11	1	21	973
05:00 PM	58	319	1	0	378	7	14	72	1	94	13	462	0	0	475	1	2	11	0	14	961
Total Volume	268	1316	7	0	1591	14	53	370	1	438	42	1701	4	1	1748	15	20	41	1	77	3854
% App. Total	16.8	82.7	0.4	0		3.2	12.1	84.5	0.2		2.4	97.3	0.2	0.1		19.5	26	53.2	1.3		
PHF	.859	.927	.583	.000	.927	.500	.828	.856	.250	.905	.656	.920	.500	.250	.920	.750	.556	.732	.250	.713	.977

