

ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

US 169 & 114th Ave
 City: Champlin
 data by: Spack Solutions
 TURN MOVEMENT COUNT

File Name : US 169 & 114th Ave_2021
 Site Code : 1735717
 Start Date : 11/3/2021
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	US 169 Southbound					114th Ave Westbound					US 169 Northbound					Elm Creek Pkwy 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	
06:00 AM	12	365	11	0	388	15	8	5	0	28	3	108	12	0	123	6	4	12	0	22	561
06:15 AM	4	463	17	0	484	18	6	10	0	34	8	174	8	0	190	7	3	28	0	38	746
06:30 AM	8	533	18	0	559	17	9	11	0	37	11	223	13	0	247	17	7	17	0	41	884
06:45 AM	7	494	30	0	531	25	12	12	0	49	10	189	17	0	216	15	10	24	0	49	845
Total	31	1855	76	0	1962	75	35	38	0	148	32	694	50	0	776	45	24	81	0	150	3036
07:00 AM	17	527	17	0	561	32	22	11	0	65	7	181	18	0	206	15	19	30	0	64	896
07:15 AM	17	565	30	0	612	22	7	6	0	35	13	204	17	0	234	22	11	35	0	68	949
07:30 AM	13	571	23	0	607	26	26	48	0	100	19	228	16	0	263	23	15	26	0	64	1034
07:45 AM	15	550	40	0	605	30	15	16	0	61	18	255	23	0	296	15	10	25	0	50	1012
Total	62	2213	110	0	2385	110	70	81	0	261	57	868	74	0	999	75	55	116	0	246	3891
08:00 AM	11	464	26	0	501	22	18	14	0	54	14	210	26	0	250	15	15	28	0	58	863
08:15 AM	20	403	25	0	448	36	25	11	0	72	20	190	18	0	228	13	26	33	0	72	820
08:30 AM	17	400	19	0	436	25	14	14	0	53	12	219	17	0	248	17	15	27	0	59	796
08:45 AM	16	383	27	0	426	22	9	14	0	45	9	218	14	0	241	13	16	23	0	52	764
Total	64	1650	97	0	1811	105	66	53	0	224	55	837	75	0	967	58	72	111	0	241	3243
09:00 AM	12	354	14	0	380	24	18	19	0	61	14	206	21	0	241	10	19	17	0	46	728
09:15 AM	14	355	23	0	392	21	17	9	0	47	21	213	34	0	268	19	16	12	0	47	754
09:30 AM	22	301	16	0	339	33	16	12	0	61	17	265	20	1	303	19	17	21	0	57	760
09:45 AM	16	264	17	0	297	16	25	20	0	61	12	203	24	1	240	23	24	13	0	60	658
Total	64	1274	70	0	1408	94	76	60	0	230	64	887	99	2	1052	71	76	63	0	210	2900
10:00 AM	17	284	13	0	314	15	19	13	0	47	13	199	27	0	239	28	19	14	0	61	661
10:15 AM	16	275	22	0	313	31	16	19	0	66	16	207	24	0	247	18	26	17	0	61	687
10:30 AM	18	279	22	1	320	22	19	10	0	51	13	219	20	0	252	22	16	12	0	50	673
10:45 AM	15	258	17	1	291	17	25	16	0	58	8	228	28	0	264	21	26	25	0	72	685
Total	66	1096	74	2	1238	85	79	58	0	222	50	853	99	0	1002	89	87	68	0	244	2706
11:00 AM	16	286	18	0	320	23	19	15	0	57	17	230	32	0	279	22	25	15	0	62	718
11:15 AM	28	263	22	2	315	26	34	19	0	79	14	205	38	0	257	18	39	26	0	83	734
11:30 AM	25	250	19	0	294	31	40	33	0	104	11	252	41	0	304	24	21	21	0	66	768
11:45 AM	25	271	24	0	320	30	18	22	0	70	17	258	43	0	318	31	23	17	0	71	779
Total	94	1070	83	2	1249	110	111	89	0	310	59	945	154	0	1158	95	108	79	0	282	2999
12:00 PM	28	273	26	0	327	27	26	13	0	66	16	256	32	0	304	17	31	25	0	73	770
12:15 PM	23	251	21	2	297	28	41	28	0	97	22	265	40	0	327	12	28	25	0	65	786
12:30 PM	32	252	25	0	309	30	26	26	0	82	19	238	40	0	297	30	31	24	0	85	773
12:45 PM	18	253	27	1	299	51	25	23	0	99	18	283	41	0	342	24	30	13	0	67	807
Total	101	1029	99	3	1232	136	118	90	0	344	75	1042	153	0	1270	83	120	87	0	290	3136
01:00 PM	25	247	23	0	295	26	33	20	0	79	14	249	38	0	301	16	31	20	0	67	742
01:15 PM	17	299	23	0	339	31	27	18	0	76	17	299	37	0	353	25	26	14	0	65	833
01:30 PM	21	262	19	0	302	34	23	20	0	77	16	278	37	0	331	22	33	18	0	73	783
01:45 PM	17	272	20	0	309	35	22	28	0	85	18	358	34	0	410	23	20	19	0	62	866
Total	80	1080	85	0	1245	126	105	86	0	317	65	1184	146	0	1395	86	110	71	0	267	3224
02:00 PM	16	268	14	0	298	39	28	18	0	85	16	328	51	0	395	27	27	27	0	81	859
02:15 PM	17	275	26	0	318	29	22	20	0	71	20	429	44	0	493	18	18	10	0	46	928
02:30 PM	21	315	11	0	347	34	34	33	0	101	10	373	45	0	428	24	21	18	0	63	939
02:45 PM	28	277	16	0	321	31	28	20	0	79	13	428	46	1	488	23	37	11	0	71	959
Total	82	1135	67	0	1284	133	112	91	0	336	59	1558	186	1	1804	92	103	66	0	261	3685
03:00 PM	33	284	11	0	328	28	36	20	0	84	21	397	54	0	472	32	37	15	0	84	968

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 Site Code : 1735717
 Start Date : 11/3/2021
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	US 169 Southbound					114th Ave Westbound					US 169 Northbound					Elm Creek Pkwy 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	
03:15 PM	23	317	23	0	363	23	33	34	0	90	18	424	47	0	489	31	30	12	0	73	1015
03:30 PM	21	322	17	0	360	40	36	29	0	105	18	454	50	0	522	27	38	13	0	78	1065
03:45 PM	29	307	17	0	353	30	37	23	0	90	25	434	51	0	510	47	38	14	0	99	1052
Total	106	1230	68	0	1404	121	142	106	0	369	82	1709	202	0	1993	137	143	54	0	334	4100
04:00 PM	24	257	15	0	296	31	42	29	0	102	23	450	47	0	520	37	52	25	1	115	1033
04:15 PM	26	280	23	0	329	24	37	33	0	94	30	463	51	0	544	43	51	17	0	111	1078
04:30 PM	33	309	28	0	370	37	39	27	0	103	16	427	57	1	501	33	38	30	0	101	1075
04:45 PM	26	339	34	0	399	33	44	19	0	96	26	435	50	0	511	42	39	25	0	106	1112
Total	109	1185	100	0	1394	125	162	108	0	395	95	1775	205	1	2076	155	180	97	1	433	4298
05:00 PM	35	324	40	0	399	46	32	20	0	98	27	436	53	0	516	32	37	27	0	96	1109
05:15 PM	17	323	20	0	360	33	40	31	0	104	50	384	55	0	489	40	24	25	0	89	1042
05:30 PM	33	283	24	0	340	29	42	37	0	108	29	396	79	0	504	25	34	23	0	82	1034
05:45 PM	27	306	21	0	354	28	27	38	0	93	24	369	51	0	444	44	29	27	0	100	991
Total	112	1236	105	0	1453	136	141	126	0	403	130	1585	238	0	1953	141	124	102	0	367	4176
06:00 PM	31	300	28	0	359	28	35	37	0	100	26	364	49	0	439	27	34	20	0	81	979
06:15 PM	20	300	22	0	342	29	34	30	0	93	23	352	54	0	429	21	41	27	0	89	953
06:30 PM	16	250	17	0	283	31	25	31	0	87	31	388	42	0	461	26	25	21	0	72	903
06:45 PM	14	206	15	0	235	23	34	29	0	86	24	295	41	0	360	23	27	27	0	77	758
Total	81	1056	82	0	1219	111	128	127	0	366	104	1399	186	0	1689	97	127	95	0	319	3593
Grand Total	1052	17109	1116	7	19284	1467	1345	1113	0	3925	927	15336	1867	4	18134	1224	1329	1090	1	3644	44987
Apprch %	5.5	88.7	5.8	0		37.4	34.3	28.4	0		5.1	84.6	10.3	0		33.6	36.5	29.9	0		
Total %	2.3	38	2.5	0	42.9	3.3	3	2.5	0	8.7	2.1	34.1	4.2	0	40.3	2.7	3	2.4	0	8.1	
Cars	1042	16404	1098	2	18546	1453	1325	1105	0	3883	879	14674	1846	4	17403	1206	1316	1069	1	3592	43424
% Cars	99	95.9	98.4	28.6	96.2	99	98.5	99.3	0	98.9	94.8	95.7	98.9	100	96	98.5	99	98.1	100	98.6	96.5
Trucks	10	705	18	5	738	14	20	8	0	42	48	662	21	0	731	18	13	21	0	52	1563
% Trucks	1	4.1	1.6	71.4	3.8	1	1.5	0.7	0	1.1	5.2	4.3	1.1	0	4	1.5	1	1.9	0	1.4	3.5

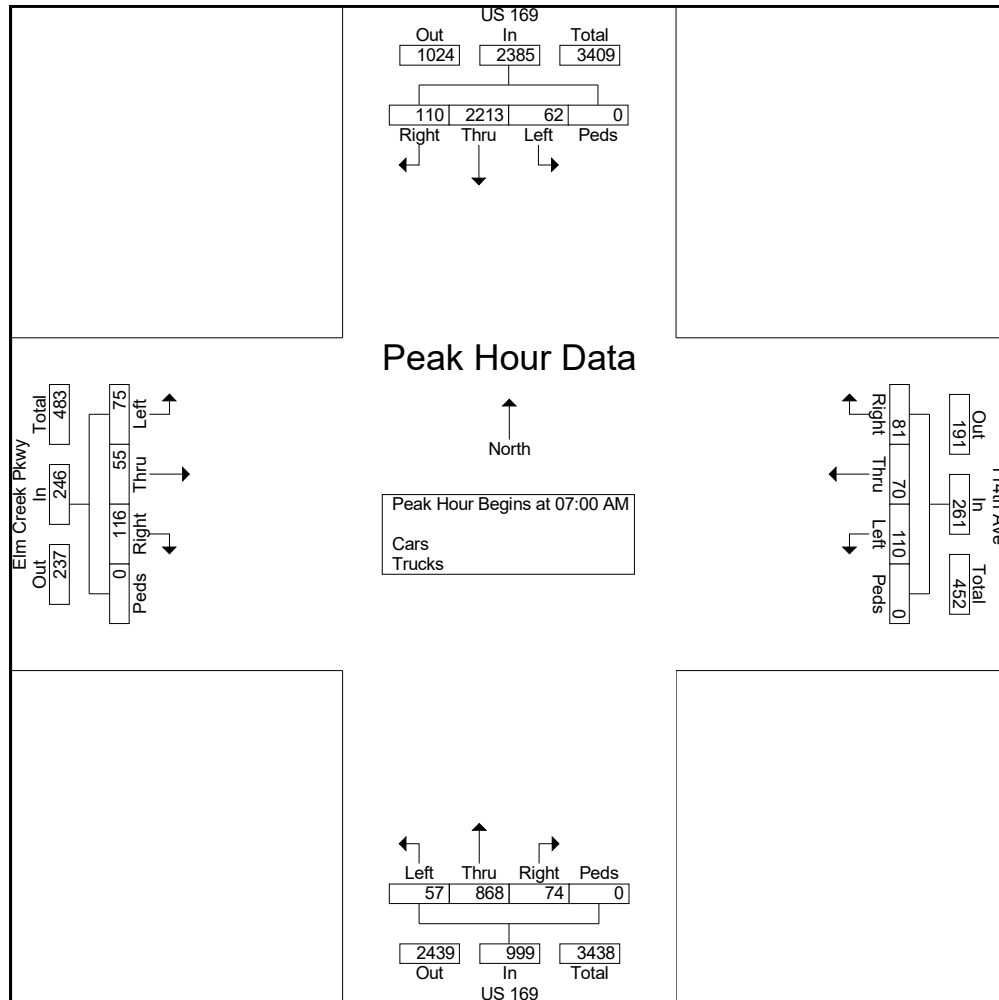
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Start Time	US 169 Southbound					114th Ave Westbound					US 169 Northbound					Elm Creek Pkwy Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	17	527	17	0	561	32	22	11	0	65	7	181	18	0	206	15	19	30	0	64	896
07:15 AM	17	565	30	0	612	22	7	6	0	35	13	204	17	0	234	22	11	35	0	68	949
07:30 AM	13	571	23	0	607	26	26	48	0	100	19	228	16	0	263	23	15	26	0	64	1034
07:45 AM	15	550	40	0	605	30	15	16	0	61	18	255	23	0	296	15	10	25	0	50	1012
Total Volume	62	2213	110	0	2385	110	70	81	0	261	57	868	74	0	999	75	55	116	0	246	3891
% App. Total	2.6	92.8	4.6	0		42.1	26.8	31	0		5.7	86.9	7.4	0		30.5	22.4	47.2	0		
PHF	.912	.969	.688	.000	.974	.859	.673	.422	.000	.653	.750	.851	.804	.000	.844	.815	.724	.829	.000	.904	.941



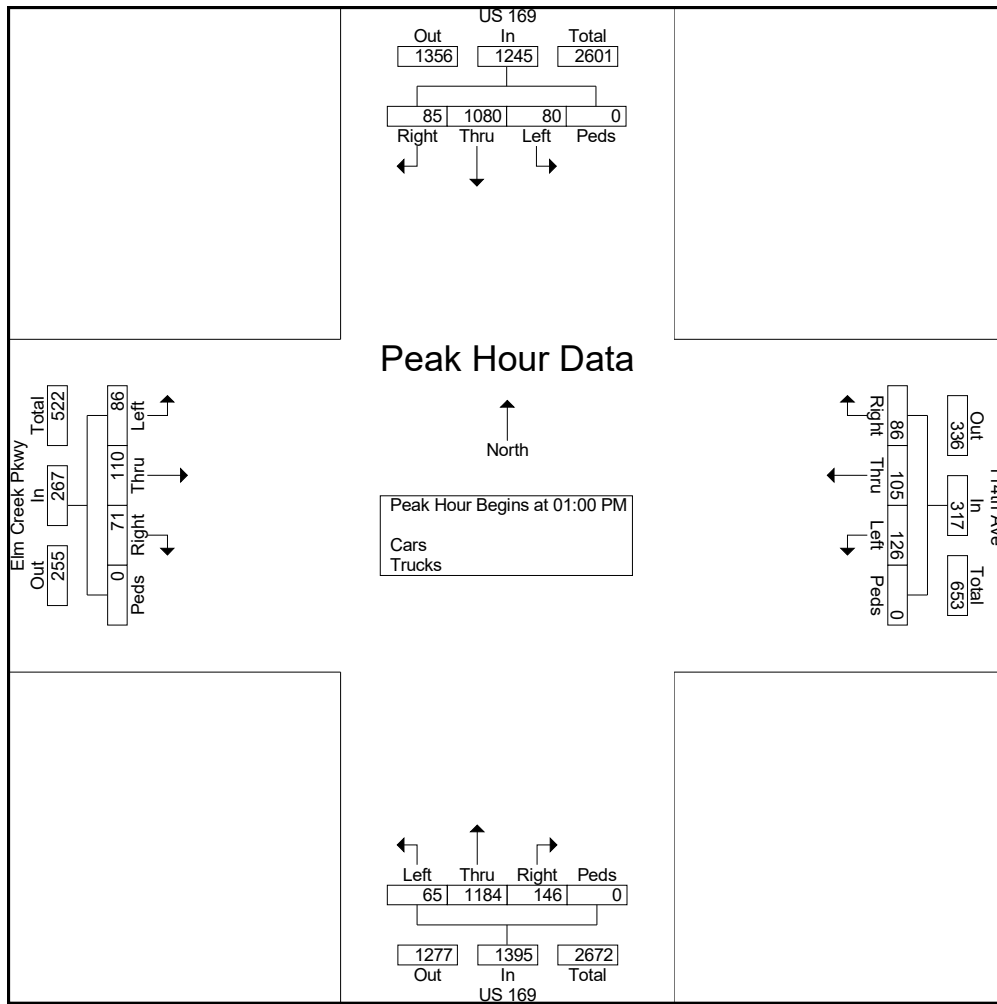
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 Page No : 4

Start Time	US 169 Southbound					114th Ave Westbound					US 169 Northbound					Elm Creek Pkwy 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	25	247	23	0	295	26	33	20	0	79	14	249	38	0	301	16	31	20	0	67	742
01:15 PM	17	299	23	0	339	31	27	18	0	76	17	299	37	0	353	25	26	14	0	65	833
01:30 PM	21	262	19	0	302	34	23	20	0	77	16	278	37	0	331	22	33	18	0	73	783
01:45 PM	17	272	20	0	309	35	22	28	0	85	18	358	34	0	410	23	20	19	0	62	866
Total Volume	80	1080	85	0	1245	126	105	86	0	317	65	1184	146	0	1395	86	110	71	0	267	3224
% App. Total	6.4	86.7	6.8	0		39.7	33.1	27.1	0		4.7	84.9	10.5	0		32.2	41.2	26.6	0		
PHF	.800	.903	.924	.000	.918	.900	.795	.768	.000	.932	.903	.827	.961	.000	.851	.860	.833	.888	.000	.914	.931



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 Page No : 5

Start Time	US 169 Southbound					114th Ave Westbound					US 169 Northbound					Elm Creek Pkwy 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 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	26	280	23	0	329	24	37	33	0	94	30	463	51	0	544	43	51	17	0	111	1078
04:30 PM	33	309	28	0	370	37	39	27	0	103	16	427	57	1	501	33	38	30	0	101	1075
04:45 PM	26	339	34	0	399	33	44	19	0	96	26	435	50	0	511	42	39	25	0	106	1112
05:00 PM	35	324	40	0	399	46	32	20	0	98	27	436	53	0	516	32	37	27	0	96	1109
Total Volume	120	1252	125	0	1497	140	152	99	0	391	99	1761	211	1	2072	150	165	99	0	414	4374
% App. Total	8	83.6	8.4	0		35.8	38.9	25.3	0		4.8	85	10.2	0		36.2	39.9	23.9	0		
PHF	.857	.923	.781	.000	.938	.761	.864	.750	.000	.949	.825	.951	.925	.250	.952	.872	.809	.825	.000	.932	.983

