

# ALLIANT ENGINEERING, INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

I-394 South Ramp & Louisiana Ave  
 City: St. Louis Park  
 data by: Alliant Engineering, Inc.  
 TURN MOVEMENT COUNT

File Name : I-394 South Ramp & Louisiana Ave\_2021  
 Site Code : 1735818  
 Start Date : 10/27/2021  
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	Louisiana Ave Southbound					I-394 South On Ramp Westbound					Louisiana Ave Northbound					I-394 South Off Ramp 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	4	19	0	0	23	0	0	0	0	0	0	18	37	0	55	9	0	20	0	29	107
06:15 AM	5	19	0	0	24	0	0	0	0	0	0	26	37	0	63	25	0	16	0	41	128
06:30 AM	15	35	0	0	50	0	0	0	0	0	0	43	42	0	85	28	0	34	0	62	197
06:45 AM	8	62	0	0	70	0	0	0	0	0	0	41	62	0	103	36	0	48	0	84	257
<b>Total</b>	<b>32</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>167</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>128</b>	<b>178</b>	<b>0</b>	<b>306</b>	<b>98</b>	<b>0</b>	<b>118</b>	<b>0</b>	<b>216</b>	<b>689</b>
07:00 AM	28	35	0	0	63	0	0	0	0	0	0	47	93	0	140	27	3	35	0	65	268
07:15 AM	22	44	0	0	66	0	0	0	1	1	0	60	77	0	137	31	0	42	1	74	278
07:30 AM	26	76	0	0	102	0	0	0	2	2	0	82	96	0	178	36	2	48	0	86	368
07:45 AM	23	77	0	0	100	0	0	0	0	0	0	102	94	0	196	64	1	54	1	120	416
<b>Total</b>	<b>99</b>	<b>232</b>	<b>0</b>	<b>0</b>	<b>331</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>291</b>	<b>360</b>	<b>0</b>	<b>651</b>	<b>158</b>	<b>6</b>	<b>179</b>	<b>2</b>	<b>345</b>	<b>1330</b>
08:00 AM	20	73	0	0	93	0	0	0	1	1	0	84	77	0	161	60	0	59	2	121	376
08:15 AM	24	72	0	0	96	0	0	0	0	0	0	71	92	0	163	50	1	49	1	101	360
08:30 AM	26	66	0	0	92	0	0	0	0	0	0	50	74	0	124	50	0	48	0	98	314
08:45 AM	35	89	0	0	124	0	0	0	0	0	0	77	70	0	147	69	0	53	0	122	393
<b>Total</b>	<b>105</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>405</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>282</b>	<b>313</b>	<b>0</b>	<b>595</b>	<b>229</b>	<b>1</b>	<b>209</b>	<b>3</b>	<b>442</b>	<b>1443</b>
09:00 AM	34	64	0	0	98	0	0	0	0	0	0	51	64	0	115	52	1	63	0	116	329
09:15 AM	37	74	0	0	111	0	0	0	0	0	0	53	48	0	101	59	0	48	0	107	319
09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	2
*** BREAK ***																					
<b>Total</b>	<b>71</b>	<b>138</b>	<b>0</b>	<b>0</b>	<b>209</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>104</b>	<b>112</b>	<b>0</b>	<b>216</b>	<b>112</b>	<b>1</b>	<b>112</b>	<b>0</b>	<b>225</b>	<b>650</b>
*** BREAK ***																					
10:30 AM	39	51	0	0	90	0	0	0	1	1	0	65	47	0	112	55	0	37	2	94	297
10:45 AM	40	51	0	1	92	0	0	0	0	0	0	75	58	0	133	38	0	38	1	77	302
<b>Total</b>	<b>79</b>	<b>102</b>	<b>0</b>	<b>1</b>	<b>182</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>140</b>	<b>105</b>	<b>0</b>	<b>245</b>	<b>93</b>	<b>0</b>	<b>75</b>	<b>3</b>	<b>171</b>	<b>599</b>
11:00 AM	30	65	0	0	95	0	0	0	1	1	0	66	50	1	117	56	0	44	0	100	313
11:15 AM	33	78	0	0	111	0	0	0	0	0	0	89	58	0	147	46	1	41	2	90	348
11:30 AM	31	66	0	1	98	0	0	0	0	0	0	72	55	0	127	58	2	48	1	109	334
11:45 AM	40	71	0	0	111	0	0	0	1	1	0	88	55	0	143	64	0	61	0	125	380
<b>Total</b>	<b>134</b>	<b>280</b>	<b>0</b>	<b>1</b>	<b>415</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>315</b>	<b>218</b>	<b>1</b>	<b>534</b>	<b>224</b>	<b>3</b>	<b>194</b>	<b>3</b>	<b>424</b>	<b>1375</b>
12:00 PM	30	104	0	0	134	0	0	0	0	0	0	101	60	0	161	46	1	48	0	95	390
12:15 PM	39	81	0	0	120	0	0	0	0	0	0	99	56	0	155	56	0	52	0	108	383
12:30 PM	48	67	0	0	115	0	0	0	1	1	0	91	52	0	143	68	0	62	0	130	389
12:45 PM	41	97	0	1	139	0	0	0	2	2	0	95	64	0	159	64	2	61	0	127	427
<b>Total</b>	<b>158</b>	<b>349</b>	<b>0</b>	<b>1</b>	<b>508</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>386</b>	<b>232</b>	<b>0</b>	<b>618</b>	<b>234</b>	<b>3</b>	<b>223</b>	<b>0</b>	<b>460</b>	<b>1589</b>
*** BREAK ***																					
02:30 PM	34	85	0	0	119	0	0	0	0	0	0	78	66	0	144	63	0	44	0	107	370
02:45 PM	38	105	0	0	143	0	0	0	0	0	0	84	62	0	146	48	2	63	0	113	402
<b>Total</b>	<b>72</b>	<b>190</b>	<b>0</b>	<b>0</b>	<b>262</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>162</b>	<b>128</b>	<b>0</b>	<b>290</b>	<b>111</b>	<b>2</b>	<b>107</b>	<b>0</b>	<b>220</b>	<b>772</b>
03:00 PM	41	67	0	0	108	0	0	0	1	1	0	95	74	0	169	42	0	42	2	86	364
03:15 PM	51	91	0	0	142	0	0	0	0	0	0	112	61	0	173	57	1	45	1	104	419
03:30 PM	34	98	0	0	132	0	0	0	1	1	0	120	77	0	197	48	0	42	0	90	420
03:45 PM	34	103	0	0	137	0	0	0	1	1	0	84	65	0	149	54	1	58	0	113	400
<b>Total</b>	<b>160</b>	<b>359</b>	<b>0</b>	<b>0</b>	<b>519</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>411</b>	<b>277</b>	<b>0</b>	<b>688</b>	<b>201</b>	<b>2</b>	<b>187</b>	<b>3</b>	<b>393</b>	<b>1603</b>
04:00 PM	39	126	0	0	165	0	0	0	0	0	0	118	98	0	216	65	1	60	0	126	507
04:15 PM	28	127	0	0	155	0	0	0	0	0	0	114	66	0	180	56	4	55	0	115	450

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 Site Code : 1735818  
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 Page No : 2

Groups Printed- Cars - Trucks

Start Time	Louisiana Ave Southbound					I-394 South On Ramp Westbound					Louisiana Ave Northbound					I-394 South Off Ramp 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	
04:30 PM	41	111	0	0	152	0	0	0	0	0	0	110	72	1	183	44	1	56	2	103	438
04:45 PM	28	140	0	0	168	0	0	0	2	2	0	106	64	0	170	59	4	77	0	140	480
Total	136	504	0	0	640	0	0	0	2	2	0	448	300	1	749	224	10	248	2	484	1875
05:00 PM	31	151	0	0	182	0	0	0	1	1	0	143	78	0	221	38	1	69	0	108	512
05:15 PM	30	133	0	0	163	0	0	0	0	0	0	141	64	0	205	33	4	87	0	124	492
05:30 PM	26	123	0	0	149	0	0	0	0	0	0	113	82	0	195	35	1	54	0	90	434
05:45 PM	18	117	0	0	135	0	0	0	0	0	0	105	50	0	155	26	0	53	0	79	369
Total	105	524	0	0	629	0	0	0	1	1	0	502	274	0	776	132	6	263	0	401	1807
06:00 PM	33	99	0	0	132	0	0	0	0	0	0	98	69	0	167	32	1	55	0	88	387
06:15 PM	41	103	0	0	144	0	0	0	0	0	0	75	71	0	146	41	0	47	0	88	378
Grand Total	1225	3315	0	3	4543	0	0	0	16	16	0	3342	2637	2	5981	1889	35	2017	16	3957	14497
Apprch %	27	73	0	0.1		0	0	0	100		0	55.9	44.1	0		47.7	0.9	51	0.4		
Total %	8.5	22.9	0	0	31.3	0	0	0	0.1	0.1	0	23.1	18.2	0	41.3	13	0.2	13.9	0.1	27.3	
Cars	1179	3223	0	3	4405	0	0	0	13	13	0	3213	2538	2	5753	1847	31	1949	15	3842	14013
% Cars	96.2	97.2	0	100	97	0	0	0	81.2	81.2	0	96.1	96.2	100	96.2	97.8	88.6	96.6	93.8	97.1	96.7
Trucks	46	92	0	0	138	0	0	0	3	3	0	129	99	0	228	42	4	68	1	115	484
% Trucks	3.8	2.8	0	0	3	0	0	0	18.8	18.8	0	3.9	3.8	0	3.8	2.2	11.4	3.4	6.2	2.9	3.3

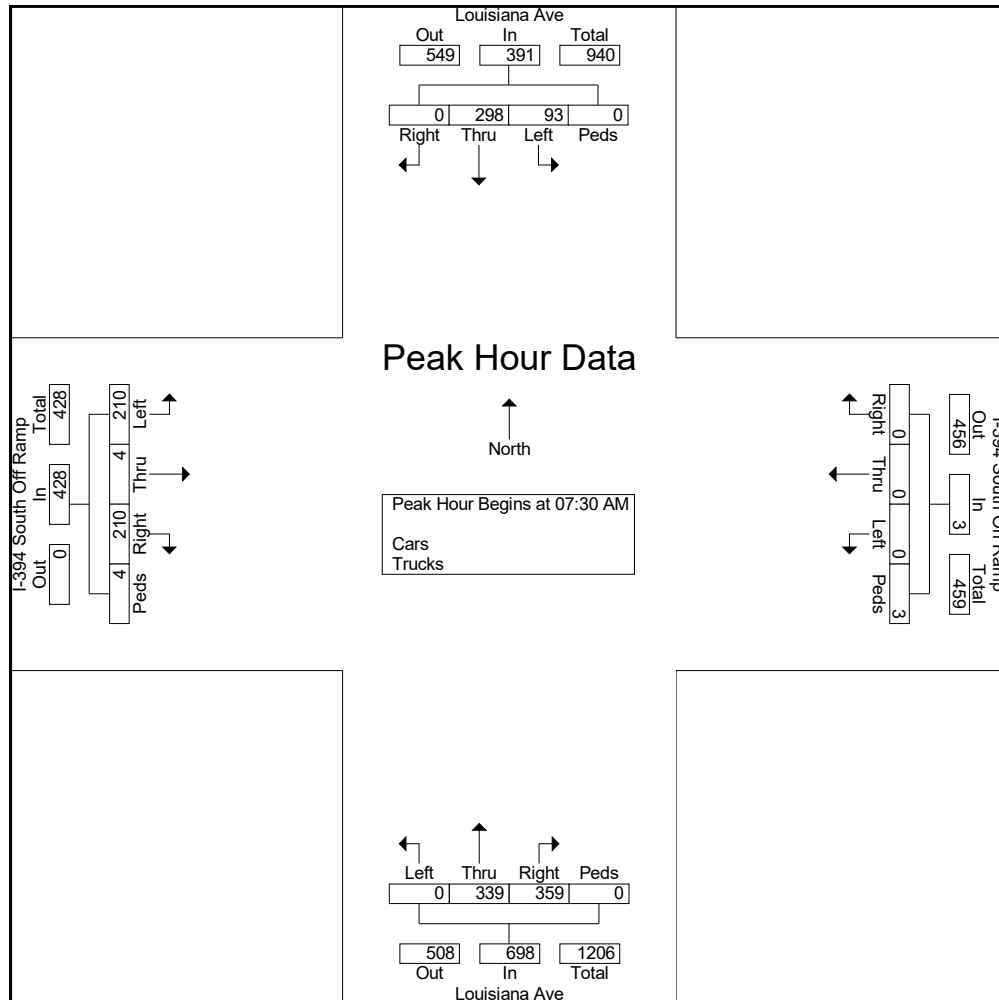
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	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	
Peak Hour Analysis From 06:00 AM to 09:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	26	76	0	0	102	0	0	0	2	2	0	82	96	0	178	36	2	48	0	86	368
07:45 AM	23	77	0	0	100	0	0	0	0	0	0	102	94	0	196	64	1	54	1	120	416
08:00 AM	20	73	0	0	93	0	0	0	1	1	0	84	77	0	161	60	0	59	2	121	376
08:15 AM	24	72	0	0	96	0	0	0	0	0	0	71	92	0	163	50	1	49	1	101	360
Total Volume	93	298	0	0	391	0	0	0	3	3	0	339	359	0	698	210	4	210	4	428	1520
% App. Total	23.8	76.2	0	0		0	0	0	100		0	48.6	51.4	0		49.1	0.9	49.1	0.9		
PHF	.894	.968	.000	.000	.958	.000	.000	.000	.375	.375	.000	.831	.935	.000	.890	.820	.500	.890	.500	.884	.913



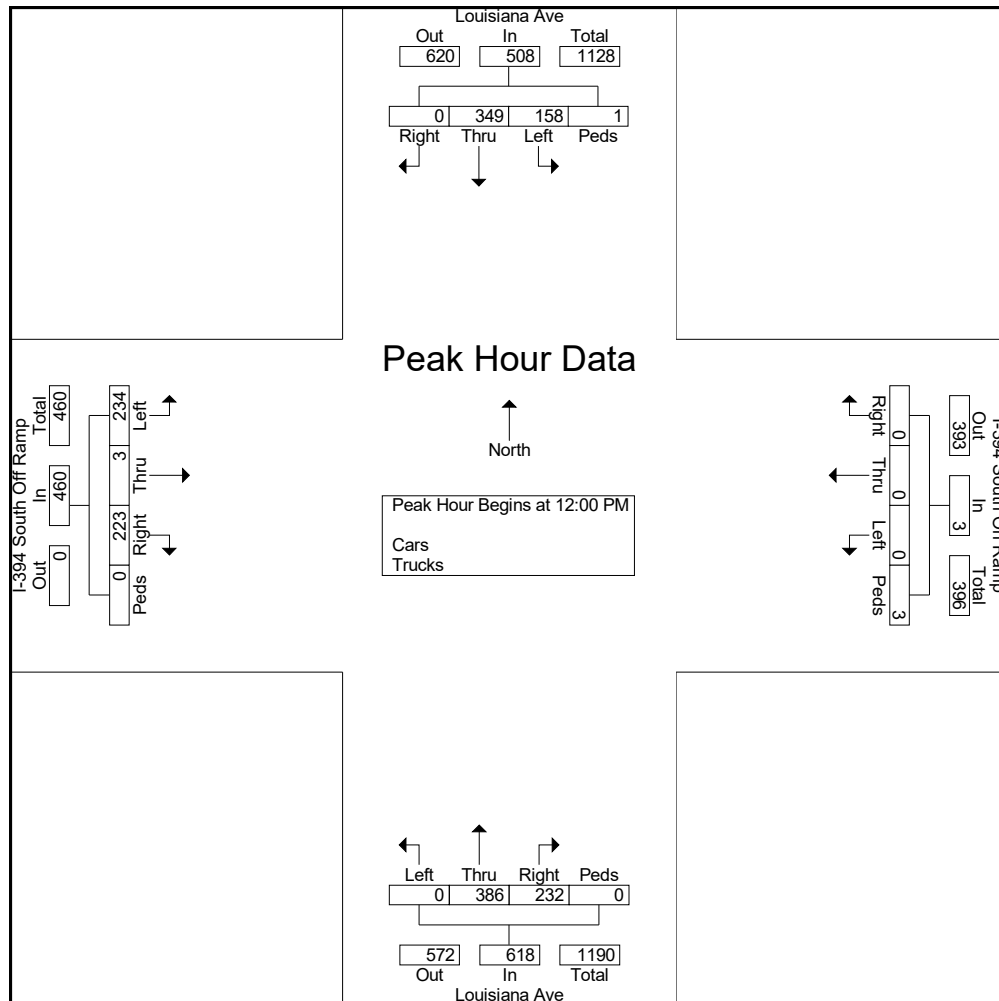
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Start Time	Louisiana Ave Southbound					I-394 South On Ramp Westbound					Louisiana Ave Northbound					I-394 South Off Ramp Eastbound					Int. Total
	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	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 12:00 PM																					
12:00 PM	30	104	0	0	134	0	0	0	0	0	0	101	60	0	161	46	1	48	0	95	390
12:15 PM	39	81	0	0	120	0	0	0	0	0	0	99	56	0	155	56	0	52	0	108	383
12:30 PM	48	67	0	0	115	0	0	0	1	1	0	91	52	0	143	68	0	62	0	130	389
12:45 PM	41	97	0	1	139	0	0	0	2	2	0	95	64	0	159	64	2	61	0	127	427
Total Volume	158	349	0	1	508	0	0	0	3	3	0	386	232	0	618	234	3	223	0	460	1589
% App. Total	31.1	68.7	0	0.2		0	0	0	100		0	62.5	37.5	0		50.9	0.7	48.5	0		
PHF	.823	.839	.000	.250	.914	.000	.000	.000	.375	.375	.000	.955	.906	.000	.960	.860	.375	.899	.000	.885	.930



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Start Time	Louisiana Ave Southbound					I-394 South On Ramp Westbound					Louisiana Ave Northbound					I-394 South Off Ramp 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 06:15 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:30 PM																					
04:30 PM	41	111	0	0	152	0	0	0	0	0	0	110	72	1	183	44	1	56	2	103	438
04:45 PM	28	140	0	0	168	0	0	0	2	2	0	106	64	0	170	59	4	77	0	140	480
05:00 PM	31	151	0	0	182	0	0	0	1	1	0	143	78	0	221	38	1	69	0	108	512
05:15 PM	30	133	0	0	163	0	0	0	0	0	0	141	64	0	205	33	4	87	0	124	492
Total Volume	130	535	0	0	665	0	0	0	3	3	0	500	278	1	779	174	10	289	2	475	1922
% App. Total	19.5	80.5	0	0		0	0	0	100		0	64.2	35.7	0.1		36.6	2.1	60.8	0.4		
PHF	.793	.886	.000	.000	.913	.000	.000	.000	.375	.375	.000	.874	.891	.250	.881	.737	.625	.830	.250	.848	.938

