

TMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
Intersection: Lake Ave & W.117th St
Counter: GFA
Day of the week: Tuesday

File Name : Gary Lakewood W 117 and Lake Ave 4 24 18
Site Code : 00000000
Start Date : 4/24/2018
Page No : 1

Groups Printed- cars - trucks - buses

Start Time	WEST 117TH STREET From North					LAKE AVENUE From East					WEST 117TH STREET From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	3	42	5	1	51	2	4	3	2	11	11	13	11	0	35	28	92	0	0	120	217
07:15 AM	1	49	9	0	59	1	11	2	0	14	10	5	4	1	20	32	124	0	1	157	250
07:30 AM	3	57	7	2	69	0	15	5	4	24	15	10	13	0	38	40	148	0	0	188	319
07:45 AM	1	49	5	0	55	2	15	14	1	32	15	12	9	0	36	41	116	0	0	157	280
Total	8	197	26	3	234	5	45	24	7	81	51	40	37	1	129	141	480	0	1	622	1066
08:00 AM	0	23	5	0	28	3	18	8	0	29	7	14	9	0	30	45	124	1	1	171	258
08:15 AM	2	42	2	2	48	0	7	7	3	17	14	8	14	0	36	39	103	2	2	146	247
08:30 AM	1	43	7	1	52	1	13	7	1	22	17	19	13	0	49	31	93	0	1	125	248
08:45 AM	3	23	5	0	31	0	10	5	0	15	10	15	18	1	44	34	74	0	2	110	200
Total	6	131	19	3	159	4	48	27	4	83	48	56	54	1	159	149	394	3	6	552	953
09:00 AM	1	34	10	1	46	0	11	10	2	23	12	25	16	0	53	28	61	4	6	99	221
09:15 AM	2	28	8	0	38	1	9	7	0	17	8	11	17	0	36	23	39	0	4	66	157
09:30 AM	0	22	10	0	32	0	11	9	0	20	13	11	6	0	30	18	48	1	1	68	150
09:45 AM	2	20	2	1	25	1	8	6	1	16	7	10	9	1	27	19	25	0	1	45	113
Total	5	104	30	2	141	2	39	32	3	76	40	57	48	1	146	88	173	5	12	278	641
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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File Name : Gary Lakewood W 117 and Lake Ave 4 24 18

Site Code : 00000000

Start Date : 4/24/2018

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Groups Printed- cars - trucks - buses

Start Time	WEST 117TH STREET From North					LAKE AVENUE From East					WEST 117TH STREET From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:00 PM	1	23	2	2	28	2	29	9	2	42	12	34	25	0	71	21	23	4	4	52	193
03:15 PM	3	33	2	0	38	1	37	10	1	49	15	25	12	0	52	28	29	4	1	62	201
03:30 PM	2	21	0	3	26	4	59	13	1	77	15	27	35	2	79	22	25	2	1	50	232
03:45 PM	3	19	4	0	26	0	50	15	0	65	12	31	22	0	65	21	22	1	0	44	200
Total	9	96	8	5	118	7	175	47	4	233	54	117	94	2	267	92	99	11	6	208	826
04:00 PM	4	14	3	1	22	3	65	18	1	87	14	28	15	2	59	23	7	0	1	31	199
04:15 PM	2	27	2	4	35	5	82	7	5	99	12	44	31	1	88	18	25	0	0	43	265
04:30 PM	1	17	3	0	21	2	94	18	0	114	14	40	35	0	89	13	22	0	2	37	261
04:45 PM	2	27	2	1	32	2	103	14	2	121	19	42	27	2	90	17	26	0	7	50	293
Total	9	85	10	6	110	12	344	57	8	421	59	154	108	5	326	71	80	0	10	161	1018
05:00 PM	1	26	4	2	33	1	119	23	1	144	22	53	32	0	107	12	25	2	1	40	324
05:15 PM	1	21	2	1	25	6	115	22	1	144	16	42	39	6	103	20	34	0	7	61	333
05:30 PM	3	28	7	1	39	1	137	16	1	155	19	37	34	1	91	11	26	1	2	40	325
05:45 PM	3	21	3	3	30	4	141	17	1	163	31	48	43	2	124	18	32	1	1	52	369
Total	8	96	16	7	127	12	512	78	4	606	88	180	148	9	425	61	117	4	11	193	1351
Grand Total	66	956	128	38	1188	58	1386	369	38	1851	491	871	679	33	2074	858	1564	35	78	2535	7648
Approch %	5.6	80.5	10.8	3.2		3.1	74.9	19.9	2.1		23.7	42	32.7	1.6		33.8	61.7	1.4	3.1		
Total %	0.9	12.5	1.7	0.5	15.5	0.8	18.1	4.8	0.5	24.2	6.4	11.4	8.9	0.4	27.1	11.2	20.4	0.5	1	33.1	
cars	62	932	127	35	1156	58	1375	353	34	1820	474	830	655	30	1989	824	1556	32	77	2489	7454
% cars	93.9	97.5	99.2	92.1	97.3	100	99.2	95.7	89.5	98.3	96.5	95.3	96.5	90.9	95.9	96	99.5	91.4	98.7	98.2	97.5
trucks	4	6	1	3	14	0	9	16	3	28	17	22	23	2	64	33	6	3	1	43	149
% trucks	6.1	0.6	0.8	7.9	1.2	0	0.6	4.3	7.9	1.5	3.5	2.5	3.4	6.1	3.1	3.8	0.4	8.6	1.3	1.7	1.9
buses	0	18	0	0	18	0	2	0	1	3	0	19	1	1	21	1	2	0	0	3	45
% buses	0	1.9	0	0	1.5	0	0.1	0	2.6	0.2	0	2.2	0.1	3	1	0.1	0.1	0	0	0.1	0.6

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Start Time	WEST 117TH STREET From North					LAKE AVENUE From East					WEST 117TH STREET From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 07:15 AM

07:15 AM	1	49	0	0	59	1	11	2	0	14	10	5	4	0	20	32	124	0	0	157	250
07:30 AM	57	7	2	69	0	15	5	4	24	15	10	13	0	38	40	148	0	0	188	319	
07:45 AM	1	49	5	0	55	2	15	14	1	32	15	12	9	0	36	41	116	0	0	157	280
08:00 AM	0	23	5	0	28	3	18	8	0	29	7	14	9	0	30	45	124	1	1	171	258
Total Volume	5	178	26	2	211	6	59	29	5	99	47	41	35	1	124	158	512	1	2	673	1107
% App. Total	2.4	84.4	12.3	0.9		6.1	59.6	29.3	5.1		37.9	33.1	28.2	0.8		23.5	76.1	0.1	0.3		
PHF	.417	.781	.722	.250	.764	.500	.819	.518	.313	.773	.783	.732	.673	.250	.816	.878	.865	.250	.500	.895	.868
cars	5	174	26	1	206	6	59	29	4	98	45	40	30	1	116	152	512	1	1	666	1086
% cars	100	97.8	100	50.0	97.6	100	100	100	80.0	99.0	95.7	97.6	85.7	100	93.5	96.2	100	100	50.0	99.0	98.1
trucks	0	0	0	1	1	0	0	0	1	1	2	0	4	0	6	6	0	0	1	7	15
% trucks	0	0	0	50.0	0.5	0	0	0	20.0	1.0	4.3	0	11.4	0	4.8	3.8	0	0	50.0	1.0	1.4
buses	0	4	0	0	4	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	6
% buses	0	2.2	0	0	1.9	0	0	0	0	0	0	2.4	2.9	0	1.6	0	0	0	0	0	0.5

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 05:00 PM

05:00 PM	1	26	4	2	33	1	119	23	1	144	22	53	32	0	107	12	25	2	1	40	324
05:15 PM	1	21	2	1	25	6	115	22	1	144	16	42	39	6	103	20	34	0	7	61	333
05:30 PM	3	28	7	1	39	1	137	16	1	155	19	37	34	1	91	11	26	1	2	40	325
05:45 PM	3	21	3	3	30	4	141	17	1	163	31	48	43	2	124	18	32	1	1	52	369
Total Volume	8	96	16	7	127	12	512	78	4	606	88	180	148	9	425	61	117	4	11	193	1351
% App. Total	6.3	75.6	12.6	5.5		2	84.5	12.9	0.7		20.7	42.4	34.8	2.1		31.6	60.6	2.1	5.7		
PHF	.667	.857	.571	.583	.814	.500	.908	.848	1.00	.929	.710	.849	.860	.375	.857	.763	.860	.500	.393	.791	.915
cars	8	95	16	6	125	12	509	78	3	602	88	176	148	8	420	61	116	4	11	192	1339
% cars	100	99.0	100	85.7	98.4	100	99.4	100	75.0	99.3	100	97.8	100	88.9	98.8	100	99.1	100	100	99.5	99.1
trucks	0	0	0	1	1	0	2	0	1	3	0	0	0	1	1	0	1	0	0	1	6
% trucks	0	0	0	14.3	0.8	0	0.4	0	25.0	0.5	0	0	0	11.1	0.2	0	0.9	0	0	0.5	0.4
buses	0	1	0	0	1	0	1	0	0	1	0	4	0	0	4	0	0	0	0	0	6
% buses	0	1.0	0	0	0.8	0	0.2	0	0	0.2	0	2.2	0	0	0.9	0	0	0	0	0	0.4

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Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
 Intersection: Lake Ave & Cove Ave
 Counter: SLC
 Day of the Week: Tuesday

File Name : Lakewood Traffic Count #2 Lake Ave Cove Ave 042418 Sue
 Site Code : 00000000
 Start Date : 4/24/2018
 Page No : 1

Groups Printed- Cars - Trucks - Buses

Start Time	COVE AVENUE From North					LAKE AVENUE From East					COVE AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	3	3	3	4	13	2	16	1	1	20	2	0	2	2	6	6	88	1	2	97	136
07:15 AM	8	4	1	0	13	2	16	1	1	20	6	5	2	1	14	10	128	4	0	142	189
07:30 AM	9	6	4	3	22	3	30	5	2	40	2	4	5	0	11	12	144	8	1	165	238
07:45 AM	7	12	2	3	24	1	26	0	1	28	2	3	3	0	8	10	113	10	4	137	197
Total	27	25	10	10	72	8	88	7	5	108	12	12	12	3	39	38	473	23	7	541	760
08:00 AM	13	4	6	1	24	6	24	2	1	33	4	3	1	0	8	12	140	4	2	158	223
08:15 AM	9	7	5	1	22	0	17	2	0	19	5	5	4	5	19	9	120	6	2	137	197
08:30 AM	6	13	9	3	31	2	28	5	1	36	4	2	3	4	13	6	92	4	1	103	183
08:45 AM	5	13	3	3	24	3	29	6	1	39	4	8	8	0	20	6	79	5	0	90	173
Total	33	37	23	8	101	11	98	15	3	127	17	18	16	9	60	33	431	19	5	488	776
09:00 AM	3	7	4	1	15	2	25	0	1	28	6	10	3	1	20	3	66	0	2	71	134
09:15 AM	2	6	5	2	15	7	21	1	1	30	2	6	0	0	8	10	51	3	3	67	120
09:30 AM	3	7	2	4	16	1	20	4	0	25	4	4	2	0	10	4	48	2	0	54	105
09:45 AM	3	3	2	4	12	1	16	2	0	19	2	4	3	0	9	3	36	1	0	40	80
Total	11	23	13	11	58	11	82	7	2	102	14	24	8	1	47	20	201	6	5	232	439
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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City: Lakewood
Intersection: Lake Ave & Cove Ave
Counter: SLC
Day of the Week: Tuesday

File Name : Lakewood Traffic Count #2 Lake Ave Cove Ave 042418 Sue
Site Code : 00000000
Start Date : 4/24/2018
Page No : 2

Groups Printed- Cars - Trucks - Buses

Start Time	COVE AVENUE From North					LAKE AVENUE From East					COVE AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
11:00 AM	4	4	1	1	10	2	14	4	2	22	3	5	7	0	15	1	23	2	1	27	74
11:15 AM	8	12	4	3	27	2	30	2	1	35	5	5	4	0	14	1	29	7	0	37	113
11:30 AM	3	4	2	3	12	1	28	1	1	31	1	1	3	0	5	1	30	7	2	40	88
11:45 AM	7	10	3	0	20	3	39	2	1	45	1	11	3	0	15	2	30	2	4	38	118
Total	22	30	10	7	69	8	111	9	5	133	10	22	17	0	49	5	112	18	7	142	393
12:00 PM	11	9	3	1	24	2	24	4	2	32	1	5	5	4	15	2	30	5	0	37	108
12:15 PM	6	8	1	1	16	4	28	5	0	37	3	7	2	2	14	5	31	3	1	40	107
12:30 PM	5	8	3	1	17	5	30	4	0	39	3	7	3	0	13	7	32	3	0	42	111
12:45 PM	4	4	2	0	10	5	35	4	0	44	1	10	7	0	18	3	32	4	2	41	113
Total	26	29	9	3	67	16	117	17	2	152	8	29	17	6	60	17	125	15	3	160	439
01:00 PM	7	10	2	0	19	3	24	4	1	32	5	8	4	2	19	3	25	2	0	30	100
01:15 PM	10	8	2	0	20	3	26	2	1	32	5	3	1	1	10	6	28	7	2	43	105
01:30 PM	7	6	4	0	17	5	21	3	1	30	5	4	4	1	14	5	31	3	4	43	104
01:45 PM	5	5	3	0	13	4	27	3	0	34	3	2	5	2	12	5	29	5	0	39	98
Total	29	29	11	0	69	15	98	12	3	128	18	17	14	6	55	19	113	17	6	155	407
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Groups Printed- Cars - Trucks - Buses

Start Time	COVE AVENUE From North					LAKE AVENUE From East					COVE AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:00 PM	9	9	4	2	24	2	48	3	2	55	8	14	11	1	34	5	38	8	0	51	164
03:15 PM	5	4	1	1	11	0	44	3	1	48	2	14	7	0	23	7	48	6	1	62	144
03:30 PM	5	6	4	6	21	5	72	6	1	84	5	5	8	0	18	4	36	6	3	49	172
03:45 PM	7	3	3	1	14	1	62	4	0	67	3	11	2	1	17	2	28	6	0	36	134
Total	26	22	12	10	70	8	226	16	4	254	18	44	28	2	92	18	150	26	4	198	614
04:00 PM	4	5	2	1	12	1	73	7	2	83	2	10	5	1	18	5	32	9	0	46	159
04:15 PM	21	4	2	0	27	2	94	8	1	105	6	6	7	1	20	2	25	6	2	35	187
04:30 PM	4	8	2	3	17	1	105	8	1	115	4	11	4	0	19	5	30	8	7	50	201
04:45 PM	7	5	3	4	19	5	98	2	4	109	3	6	6	1	16	2	34	9	0	45	189
Total	36	22	9	8	75	9	370	25	8	412	15	33	22	3	73	14	121	32	9	176	736
05:00 PM	14	8	1	3	26	5	108	4	1	118	4	7	9	0	20	8	25	9	0	42	206
05:15 PM	8	5	0	3	16	5	143	5	1	154	3	9	7	1	20	6	45	8	0	59	249
05:30 PM	12	6	2	5	25	3	166	3	0	172	5	10	7	2	24	6	43	21	0	70	291
05:45 PM	16	7	3	3	29	9	163	4	4	180	8	11	10	2	31	1	33	9	1	44	284
Total	50	26	6	14	96	22	580	16	6	624	20	37	33	5	95	21	146	47	1	215	1030
Grand Total	260	243	103	71	677	108	1770	124	38	2040	132	236	167	35	570	185	1872	203	47	2307	5594
Apprch %	38.4	35.9	15.2	10.5		5.3	86.8	6.1	1.9		23.2	41.4	29.3	6.1		8	81.1	8.8	2		
Total %	4.6	4.3	1.8	1.3	12.1	1.9	31.6	2.2	0.7	36.5	2.4	4.2	3	0.6	10.2	3.3	33.5	3.6	0.8	41.2	
Cars	239	238	101	60	638	105	1740	121	31	1997	129	229	164	31	553	180	1841	183	45	2249	5437
% Cars	91.9	97.9	98.1	84.5	94.2	97.2	98.3	97.6	81.6	97.9	97.7	97	98.2	88.6	97	97.3	98.3	90.1	95.7	97.5	97.2
Trucks	2	0	1	11	14	2	29	2	7	40	3	2	3	0	8	4	26	4	2	36	98
% Trucks	0.8	0	1	15.5	2.1	1.9	1.6	1.6	18.4	2	2.3	0.8	1.8	0	1.4	2.2	1.4	2	4.3	1.6	1.8
Buses	19	5	1	0	25	1	1	1	0	3	0	5	0	4	9	1	5	16	0	22	59
% Buses	7.3	2.1	1	0	3.7	0.9	0.1	0.8	0	0.1	0	2.1	0	11.4	1.6	0.5	0.3	7.9	0	1	1.1

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

Start Time	COVE AVENUE From North					LAKE AVENUE From East					COVE AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 07:30 AM

07:30 AM	9	6	4	3	22	3	30	5	2	40	2	4	5	0	11	12	144	8	1	165	238
07:45 AM	7	12	2	3	24	1	26	0	1	28	2	3	3	0	8	10	113	10	4	137	197
08:00 AM	13	4	6	1	24	6	24	2	1	33	4	3	1	0	8	12	140	4	2	158	223
08:15 AM	9	7	5	1	22	0	17	2	0	19	5	5	4	5	19	9	120	6	2	137	197
Total Volume	38	29	17	8	92	10	97	9	4	120	13	15	13	5	46	43	517	28	9	597	855
% App. Total	41.3	31.5	18.5	8.7		8.3	80.8	7.5	3.3		28.3	32.6	28.3	10.9		7.2	86.6	4.7	1.5		
PHF	.731	.604	.708	.667	.958	.417	.808	.450	.500	.750	.650	.750	.650	.250	.605	.896	.898	.700	.563	.905	.898
Cars	36	29	17	7	89	10	89	9	3	111	13	15	12	5	45	43	515	23	9	590	835
% Cars	94.7	100	100	87.5	96.7	100	91.8	100	75.0	92.5	100	100	92.3	100	97.8	100	99.6	82.1	100	98.8	97.7
Trucks	0	0	0	1	1	0	8	0	1	9	0	0	1	0	1	0	2	1	0	3	14
% Trucks	0	0	0	12.5	1.1	0	8.2	0	25.0	7.5	0	0	7.7	0	2.2	0	0.4	3.6	0	0.5	1.6
Buses	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4	6
% Buses	5.3	0	0	0	2.2	0	0	0	0	0	0	0	0	0	0	0	0	14.3	0	0.7	0.7

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 05:00 PM

05:00 PM	14	8	1	3	26	5	108	4	1	118	4	7	9	0	20	8	25	9	0	42	206
05:15 PM	8	5	0	3	16	5	143	5	1	154	3	9	7	1	20	6	45	8	0	59	249
05:30 PM	12	6	2	5	25	3	166	3	0	172	5	10	7	2	24	6	43	21	0	70	291
05:45 PM	16	7	3	3	29	9	163	4	4	180	8	11	10	2	31	1	33	9	1	44	284
Total Volume	50	26	6	14	96	22	580	16	6	624	20	37	33	5	95	21	146	47	1	215	1030
% App. Total	52.1	27.1	6.2	14.6		3.5	92.9	2.6	1		21.1	38.9	34.7	5.3		9.8	67.9	21.9	0.5		
PHF	.781	.813	.500	.700	.828	.611	.873	.800	.375	.867	.625	.841	.825	.625	.766	.656	.811	.560	.250	.768	.885
Cars	47	26	6	12	91	22	578	15	5	620	20	37	33	5	95	21	144	46	1	212	1018
% Cars	94.0	100	100	85.7	94.8	100	99.7	93.8	83.3	99.4	100	100	100	100	100	100	98.6	97.9	100	98.6	98.8
Trucks	0	0	0	2	2	0	2	0	1	3	0	0	0	0	0	0	2	0	0	2	7
% Trucks	0	0	0	14.3	2.1	0	0.3	0	16.7	0.5	0	0	0	0	0	0	1.4	0	0	0.9	0.7
Buses	3	0	0	0	3	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	5
% Buses	6.0	0	0	0	3.1	0	0	6.3	0	0.2	0	0	0	0	0	0	0	2.1	0	0.5	0.5

TMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
Intersection: Lake Ave & Nicholson Ave
Counter: JMC
Day of the Week: Tuesday

File Name : nicholson and lake lakewood 42418 jmc
Site Code : 00000000
Start Date : 4/24/2018
Page No : 1

Groups Printed- Cars - Trucks - Buses

Start Time	NICHOLSON AVENUE From North					LAKE AVENUE From East					NICHOLSON AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	0	2	1	0	3	2	25	3	0	30	2	0	0	1	3	3	63	0	1	67	103
07:15 AM	1	1	2	0	4	1	25	8	0	34	8	1	3	0	12	1	109	0	0	110	160
07:30 AM	0	4	4	2	10	0	52	8	0	60	5	1	6	0	12	6	101	0	0	107	189
07:45 AM	0	4	1	1	6	1	40	9	0	50	7	3	10	1	21	27	112	0	1	140	217
Total	1	11	8	3	23	4	142	28	0	174	22	5	19	2	48	37	385	0	2	424	669
08:00 AM	0	5	2	1	8	1	31	3	0	35	5	2	6	2	15	8	112	0	0	120	178
08:15 AM	0	4	3	4	11	1	33	8	0	42	3	1	1	10	15	4	78	1	10	93	161
08:30 AM	0	8	1	12	21	0	42	12	3	57	4	3	4	14	25	5	70	1	7	83	186
08:45 AM	1	4	3	14	22	1	38	13	0	52	7	2	1	4	14	3	56	1	8	68	156
Total	1	21	9	31	62	3	144	36	3	186	19	8	12	30	69	20	316	3	25	364	681
09:00 AM	2	2	2	9	15	1	29	2	0	32	6	1	5	1	13	4	52	1	3	60	120
09:15 AM	0	1	0	1	2	2	27	3	0	32	3	0	1	0	4	5	40	0	0	45	83
09:30 AM	0	0	2	0	2	1	24	2	0	27	4	2	0	0	6	1	43	0	2	46	81
09:45 AM	0	3	0	0	3	0	33	6	0	39	4	1	1	0	6	1	31	0	0	32	80
Total	2	6	4	10	22	4	113	13	0	130	17	4	7	1	29	11	166	1	5	183	364
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

File Name : nicholson and lake lakewood 42418 jmc

Site Code : 00000000

Start Date : 4/24/2018

Page No : 3

Groups Printed- Cars - Trucks - Buses

Start Time	NICHOLSON AVENUE From North					LAKE AVENUE From East					NICHOLSON AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:00 PM	0	8	1	1	10	3	43	6	0	52	7	7	16	1	31	15	49	0	3	67	160
03:15 PM	1	4	1	8	14	0	39	7	3	49	13	3	1	16	33	7	58	0	9	74	170
03:30 PM	1	0	1	4	6	1	54	2	0	57	6	0	3	2	11	3	38	2	0	43	117
03:45 PM	1	3	0	2	6	1	65	9	0	75	15	1	1	0	17	2	36	1	2	41	139
Total	3	15	3	15	36	5	201	24	3	233	41	11	21	19	92	27	181	3	14	225	586
04:00 PM	1	1	3	2	7	0	68	8	0	76	7	2	2	3	14	2	33	2	0	37	134
04:15 PM	0	2	1	0	3	2	80	11	0	93	7	4	1	0	12	1	37	1	0	39	147
04:30 PM	1	1	3	3	8	3	90	5	0	98	7	1	1	0	9	5	43	0	0	48	163
04:45 PM	0	1	0	2	3	8	109	5	0	122	12	1	3	0	16	0	47	0	2	49	190
Total	2	5	7	7	21	13	347	29	0	389	33	8	7	3	51	8	160	3	2	173	634
05:00 PM	2	1	1	3	7	2	98	12	0	112	10	2	6	0	18	3	38	1	3	45	182
05:15 PM	0	1	2	0	3	4	105	9	0	118	11	1	7	0	19	4	40	1	0	45	185
05:30 PM	0	2	1	2	5	4	138	16	0	158	14	7	3	2	26	7	58	0	0	65	254
05:45 PM	1	1	1	1	4	5	140	10	0	155	12	1	3	0	16	3	42	1	1	47	222
Total	3	5	5	6	19	15	481	47	0	543	47	11	19	2	79	17	178	3	4	202	843
Grand Total	23	87	55	91	256	54	1846	255	6	2161	246	68	110	62	486	154	1743	16	62	1975	4878
Apprch %	9	34	21.5	35.5		2.5	85.4	11.8	0.3		50.6	14	22.6	12.8		7.8	88.3	0.8	3.1		
Total %	0.5	1.8	1.1	1.9	5.2	1.1	37.8	5.2	0.1	44.3	5	1.4	2.3	1.3	10	3.2	35.7	0.3	1.3	40.5	
Cars	23	83	54	87	247	52	1819	247	6	2124	237	66	106	60	469	147	1713	15	60	1935	4775
% Cars	100	95.4	98.2	95.6	96.5	96.3	98.5	96.9	100	98.3	96.3	97.1	96.4	96.8	96.5	95.5	98.3	93.8	96.8	98	97.9
Trucks	0	4	1	4	9	2	22	4	0	28	4	2	4	1	11	7	27	1	2	37	85
% Trucks	0	4.6	1.8	4.4	3.5	3.7	1.2	1.6	0	1.3	1.6	2.9	3.6	1.6	2.3	4.5	1.5	6.2	3.2	1.9	1.7
Buses	0	0	0	0	0	0	5	4	0	9	5	0	0	1	6	0	3	0	0	3	18
% Buses	0	0	0	0	0	0	0.3	1.6	0	0.4	2	0	0	1.6	1.2	0	0.2	0	0	0.2	0.4

TMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
Intersection: Lake Ave & Belle Ave
Counter: DJS
Day of the week: Tuesday

File Name : Don Lakewood Belle Ave and Lake Ave 4 24 18
Site Code : 00000000
Start Date : 4/24/2018
Page No : 1

Groups Printed- cars - trucks - buses

Start Time	BELLE AVENUE From North					LAKE AVENUE From East					BELLE AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	0	4	2	3	9	1	13	7	3	24	6	6	2	7	21	3	43	1	3	50	104
07:15 AM	2	2	0	4	8	1	18	8	2	29	7	5	3	0	15	8	77	1	0	86	138
07:30 AM	1	0	1	6	8	2	57	10	0	69	15	4	22	0	41	9	84	2	2	97	215
07:45 AM	2	3	0	4	9	4	66	4	3	77	11	3	67	4	85	28	117	2	0	147	318
Total	5	9	3	17	34	8	154	29	8	199	39	18	94	11	162	48	321	6	5	380	775
08:00 AM	1	5	3	4	13	3	37	12	1	53	13	2	22	0	37	21	97	2	0	120	223
08:15 AM	0	5	0	2	7	0	30	7	2	39	10	4	4	2	20	8	61	0	20	89	155
08:30 AM	1	1	0	4	6	0	31	16	3	50	4	1	5	0	10	3	59	0	0	62	128
08:45 AM	0	5	1	1	7	2	27	13	1	43	11	4	1	3	19	13	40	1	0	54	123
Total	2	16	4	11	33	5	125	48	7	185	38	11	32	5	86	45	257	3	20	325	629
09:00 AM	1	0	3	0	4	1	26	13	0	40	15	2	3	0	20	5	43	1	1	50	114
09:15 AM	0	1	0	4	5	1	24	6	2	33	7	9	5	0	21	5	31	1	0	37	96
09:30 AM	1	0	0	1	2	0	13	7	1	21	7	5	2	2	16	4	30	3	0	37	76
09:45 AM	1	1	1	0	3	1	25	4	3	33	6	2	5	66	79	4	18	2	0	24	139
Total	3	2	4	5	14	3	88	30	6	127	35	18	15	68	136	18	122	7	1	148	425
10:00 AM	0	1	1	0	2	1	4	0	0	5	0	0	0	0	0	0	2	0	0	2	9
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	1	0	2	1	4	0	0	5	0	0	0	0	0	0	2	0	0	2	9

TMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

File Name : Don Lakewood Belle Ave and Lake Ave 4 24 18

Site Code : 00000000

Start Date : 4/24/2018

Page No : 2

Groups Printed- cars - trucks - buses

Start Time	BELLE AVENUE From North					LAKE AVENUE From East					BELLE AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
11:00 AM	2	4	4	1	11	2	33	15	1	51	2	6	4	2	14	3	26	3	0	32	108
11:15 AM	1	5	3	2	11	5	16	5	0	26	9	4	6	1	20	4	28	4	0	36	93
11:30 AM	8	3	2	0	13	4	31	6	0	41	4	2	1	0	7	3	23	2	0	28	89
11:45 AM	2	1	0	2	5	2	32	13	2	49	19	5	5	0	29	7	19	1	0	27	110
Total	13	13	9	5	40	13	112	39	3	167	34	17	16	3	70	17	96	10	0	123	400
12:00 PM	2	3	1	2	8	2	31	7	0	40	6	13	8	0	27	5	26	2	0	33	108
12:15 PM	3	3	2	0	8	5	17	10	2	34	9	8	3	1	21	9	30	0	4	43	106
12:30 PM	4	8	1	0	13	0	29	7	1	37	10	8	2	3	23	4	29	6	0	39	112
12:45 PM	2	17	4	1	24	3	38	15	0	56	10	7	5	0	22	2	30	1	0	33	135
Total	11	31	8	3	53	10	115	39	3	167	35	36	18	4	93	20	115	9	4	148	461
01:00 PM	3	4	1	1	9	2	23	8	1	34	16	6	5	2	29	4	14	1	0	19	91
01:15 PM	1	7	2	1	11	1	33	10	0	44	8	4	2	0	14	2	16	2	0	20	89
01:30 PM	2	4	4	1	11	1	32	7	1	41	8	2	1	0	11	6	21	2	1	30	93
01:45 PM	1	5	0	0	6	1	24	5	0	30	11	2	0	0	13	4	28	1	0	33	82
Total	7	20	7	3	37	5	112	30	2	149	43	14	8	2	67	16	79	6	1	102	355
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

File Name : Don Lakewood Belle Ave and Lake Ave 4 24 18

Site Code : 00000000

Start Date : 4/24/2018

Page No : 3

Groups Printed- cars - trucks - buses

Start Time	BELLE AVENUE From North					LAKE AVENUE From East					BELLE AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:00 PM	5	5	4	16	30	7	52	14	3	76	16	3	27	4	50	27	57	2	13	99	255
03:15 PM	1	1	0	0	2	0	34	6	0	40	15	3	7	0	25	14	37	0	0	51	118
03:30 PM	0	3	0	0	3	1	37	11	0	49	15	5	6	0	26	8	28	0	0	36	114
03:45 PM	3	3	2	0	8	1	51	11	0	63	10	5	5	0	20	6	25	1	0	32	123
Total	9	12	6	16	43	9	174	42	3	228	56	16	45	4	121	55	147	3	13	218	610
04:00 PM	2	3	1	1	7	3	53	12	2	70	13	2	4	2	21	13	26	2	0	41	139
04:15 PM	0	2	0	1	3	3	56	14	0	73	10	4	5	0	19	3	27	2	1	33	128
04:30 PM	4	5	4	0	13	1	88	13	2	104	4	2	4	1	11	6	38	2	1	47	175
04:45 PM	1	1	4	0	6	2	91	20	0	113	13	4	11	3	31	4	33	0	3	40	190
Total	7	11	9	2	29	9	288	59	4	360	40	12	24	6	82	26	124	6	5	161	632
05:00 PM	2	3	0	2	7	2	88	13	1	104	11	5	6	5	27	9	39	2	1	51	189
05:15 PM	1	2	2	3	8	2	105	13	0	120	11	2	8	7	28	6	36	1	0	43	199
05:30 PM	0	8	3	2	13	2	112	21	2	137	16	3	10	1	30	5	34	1	1	41	221
05:45 PM	0	0	0	2	2	0	137	29	2	168	19	3	5	1	28	12	36	0	2	50	248
Total	3	13	5	9	30	6	442	76	5	529	57	13	29	14	113	32	145	4	4	185	857
Grand Total	60	128	56	71	315	69	1614	392	41	2116	377	155	281	117	930	277	1408	54	53	1792	5153
Apprch %	19	40.6	17.8	22.5		3.3	76.3	18.5	1.9		40.5	16.7	30.2	12.6		15.5	78.6	3	3		
Total %	1.2	2.5	1.1	1.4	6.1	1.3	31.3	7.6	0.8	41.1	7.3	3	5.5	2.3	18	5.4	27.3	1	1	34.8	
cars	58	109	56	63	286	68	1590	385	40	2083	369	132	273	114	888	270	1384	53	53	1760	5017
% cars	96.7	85.2	100	88.7	90.8	98.6	98.5	98.2	97.6	98.4	97.9	85.2	97.2	97.4	95.5	97.5	98.3	98.1	100	98.2	97.4
trucks	2	1	0	8	11	1	23	5	1	30	8	2	5	3	18	7	22	1	0	30	89
% trucks	3.3	0.8	0	11.3	3.5	1.4	1.4	1.3	2.4	1.4	2.1	1.3	1.8	2.6	1.9	2.5	1.6	1.9	0	1.7	1.7
buses	0	18	0	0	18	0	1	2	0	3	0	21	3	0	24	0	2	0	0	2	47
% buses	0	14.1	0	0	5.7	0	0.1	0.5	0	0.1	0	13.5	1.1	0	2.6	0	0.1	0	0	0.1	0.9

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

Start Time	BELLE AVENUE From North					LAKE AVENUE From East					BELLE AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 07:30 AM

07:30 AM	1	0	1	6	8	2	57	10	0	69	15	4	22	0	41	9	84	2	2	97	215
07:45 AM	2	3	0	4	9	4	66	4	3	77	11	3	67	4	85	28	117	2	0	147	318
08:00 AM	1	5	3	4	13	3	37	12	1	53	13	2	22	0	37	21	97	2	0	120	223
08:15 AM	0	5	0	2	7	0	30	7	2	39	10	4	4	2	20	8	61	0	20	89	155
Total Volume	4	13	4	16	37	9	190	33	6	238	49	13	115	6	183	66	359	6	22	453	911
% App. Total	10.8	35.1	10.8	43.2		3.8	79.8	13.9	2.5		26.8	7.1	62.8	3.3		14.6	79.2	1.3	4.9		
PHF	.500	.650	.333	.667	.712	.563	.720	.688	.500	.773	.817	.813	.429	.375	.538	.589	.767	.750	.275	.770	.716
cars	2	8	4	14	28	9	187	33	6	235	49	8	113	6	176	66	358	6	22	452	891
% cars	50.0	61.5	100	87.5	75.7	100	98.4	100	100	98.7	100	61.5	98.3	100	96.2	100	99.7	100	100	99.8	97.8
trucks	2	1	0	2	5	0	3	0	0	3	0	1	0	0	1	0	1	0	0	1	10
% trucks	50.0	7.7	0	12.5	13.5	0	1.6	0	0	1.3	0	7.7	0	0	0.5	0	0.3	0	0	0.2	1.1
buses	0	4	0	0	4	0	0	0	0	0	0	4	2	0	6	0	0	0	0	0	10
% buses	0	30.8	0	0	10.8	0	0	0	0	0	0	30.8	1.7	0	3.3	0	0	0	0	0	1.1

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 05:00 PM

05:00 PM	2	3	0	2	7	2	88	13	1	104	11	5	6	5	27	9	39	2	1	51	189
05:15 PM	1	2	2	3	8	2	105	13	0	120	11	2	8	7	28	6	36	1	0	43	199
05:30 PM	0	8	3	2	13	2	112	21	2	137	16	3	10	1	30	5	34	1	1	41	221
05:45 PM	0	0	0	2	2	0	137	29	2	168	19	3	5	1	28	12	36	0	2	50	248
Total Volume	3	13	5	9	30	6	442	76	5	529	57	13	29	14	113	32	145	4	4	185	857
% App. Total	10	43.3	16.7	30		1.1	83.6	14.4	0.9		50.4	11.5	25.7	12.4		17.3	78.4	2.2	2.2		
PHF	.375	.406	.417	.750	.577	.750	.807	.655	.625	.787	.750	.650	.725	.500	.942	.667	.929	.500	.500	.907	.864
cars	3	10	5	9	27	6	440	75	4	525	57	9	29	13	108	32	144	4	4	184	844
% cars	100	76.9	100	100	90.0	100	99.5	98.7	80.0	99.2	100	69.2	100	92.9	95.6	100	99.3	100	100	99.5	98.5
trucks	0	0	0	0	0	0	2	1	1	4	0	0	0	1	1	0	1	0	0	1	6
% trucks	0	0	0	0	0	0	0.5	1.3	20.0	0.8	0	0	0	7.1	0.9	0	0.7	0	0	0.5	0.7
buses	0	3	0	0	3	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	7
% buses	0	23.1	0	0	10.0	0	0	0	0	0	0	30.8	0	0	3.5	0	0	0	0	0	0.8

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
 Intersection: Lake Ave & Cook Ave
 Counter: JFS
 Day of the Week: Tuesday

File Name : LakeCookAve042418JFS
 Site Code : 00000000
 Start Date : 4/24/2018
 Page No : 1

Groups Printed- Cars - Trucks - Buses

Start Time	COOK AVENUE From North					LAKE AVENUE From East					COOK AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	0	1	1	1	3	3	12	0	0	15	1	5	0	0	6	9	44	7	0	60	84
07:15 AM	3	0	4	3	10	2	19	1	1	23	5	6	2	1	14	3	77	8	0	88	135
07:30 AM	4	8	7	13	32	27	39	0	6	72	5	36	2	1	44	12	80	1	0	93	241
07:45 AM	15	20	26	57	118	42	57	0	9	108	0	50	2	5	57	9	93	0	0	102	385
Total	22	29	38	74	163	74	127	1	16	218	11	97	6	7	121	33	294	16	0	343	845
08:00 AM	9	26	18	13	66	14	47	1	5	67	3	18	2	3	26	10	64	0	0	74	233
08:15 AM	6	8	3	2	19	3	27	0	0	30	2	11	1	1	15	11	64	0	0	75	139
08:30 AM	1	5	2	5	13	3	27	0	63	93	2	8	4	0	14	7	54	0	0	61	181
08:45 AM	4	5	1	1	11	1	29	0	2	32	2	3	2	1	8	7	53	0	0	60	111
Total	20	44	24	21	109	21	130	1	70	222	9	40	9	5	63	35	235	0	0	270	664
09:00 AM	1	2	2	2	7	5	25	1	0	31	2	3	4	0	9	5	43	1	1	50	97
09:15 AM	1	2	3	4	10	0	27	2	0	29	1	1	3	0	5	5	34	0	0	39	83
09:30 AM	0	2	1	2	5	0	18	2	1	21	2	5	0	4	11	4	32	1	0	37	74
09:45 AM	1	1	2	1	5	4	27	1	63	95	4	5	1	1	11	2	12	0	1	15	126
Total	3	7	8	9	27	9	97	6	64	176	9	14	8	5	36	16	121	2	2	141	380
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
 Intersection: Lake Ave & Cook Ave
 Counter: JFS
 Day of the Week: Tuesday

File Name : LakeCookAve042418JFS
 Site Code : 00000000
 Start Date : 4/24/2018
 Page No : 2

Groups Printed- Cars - Trucks - Buses

Start Time	COOK AVENUE From North					LAKE AVENUE From East					COOK AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
11:00 AM	1	2	1	2	6	0	33	1	3	37	3	2	1	3	9	0	25	0	0	25	77
11:15 AM	1	1	2	1	5	0	26	0	0	26	2	4	3	0	9	6	30	0	0	36	76
11:30 AM	0	0	0	0	0	0	42	1	0	43	1	1	4	0	6	2	24	0	0	26	75
11:45 AM	1	0	1	6	8	4	31	3	4	42	4	10	0	2	16	2	17	0	0	19	85
Total	3	3	4	9	19	4	132	5	7	148	10	17	8	5	40	10	96	0	0	106	313
12:00 PM	1	4	2	1	8	5	38	1	4	48	1	4	1	4	10	2	24	1	0	27	93
12:15 PM	1	1	3	1	6	0	18	1	0	19	1	3	6	0	10	6	26	0	0	32	67
12:30 PM	1	0	1	2	4	0	30	2	0	32	2	0	7	0	9	3	31	0	0	34	79
12:45 PM	1	1	1	2	5	1	40	0	0	41	1	1	2	0	4	4	30	0	0	34	84
Total	4	6	7	6	23	6	126	4	4	140	5	8	16	4	33	15	111	1	0	127	323
01:00 PM	0	1	1	2	4	1	29	0	1	31	2	0	4	0	6	4	14	0	0	18	59
01:15 PM	0	1	0	2	3	1	36	1	0	38	1	0	3	0	4	2	23	0	0	25	70
01:30 PM	1	0	0	0	1	1	30	3	3	37	1	1	0	3	5	4	27	0	0	31	74
01:45 PM	0	1	0	0	1	0	23	2	0	25	3	1	4	0	8	2	23	0	0	25	59
Total	1	3	1	4	9	3	118	6	4	131	7	2	11	3	23	12	87	0	0	99	262
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
 Intersection: Lake Ave & Cook Ave
 Counter: JFS
 Day of the Week: Tuesday

File Name : LakeCookAve042418JFS
 Site Code : 00000000
 Start Date : 4/24/2018
 Page No : 3

Groups Printed- Cars - Trucks - Buses

Start Time	COOK AVENUE From North					LAKE AVENUE From East					COOK AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:00 PM	5	9	8	79	101	8	73	3	41	125	5	5	4	27	41	9	32	0	0	41	308
03:15 PM	10	13	9	0	32	4	40	1	1	46	8	1	3	1	13	5	31	0	0	36	127
03:30 PM	6	2	0	0	8	2	45	1	0	48	2	2	2	1	7	4	28	1	0	33	96
03:45 PM	3	4	1	0	8	5	55	3	0	63	1	3	1	0	5	4	26	2	0	32	108
Total	24	28	18	79	149	19	213	8	42	282	16	11	10	29	66	22	117	3	0	142	639
04:00 PM	5	6	4	0	15	5	57	3	0	65	1	2	6	0	9	3	30	2	0	35	124
04:15 PM	4	5	3	0	12	1	58	1	0	60	2	5	5	0	12	2	22	0	1	25	109
04:30 PM	4	0	2	1	7	5	78	6	0	89	2	3	2	0	7	4	36	1	0	41	144
04:45 PM	3	5	2	1	11	5	100	3	0	108	6	3	4	1	14	5	31	2	0	38	171
Total	16	16	11	2	45	16	293	13	0	322	11	13	17	1	42	14	119	5	1	139	548
05:00 PM	3	1	1	2	7	5	73	4	0	82	1	1	1	1	4	6	34	1	0	41	134
05:15 PM	12	3	1	0	16	8	102	2	1	113	1	11	7	2	21	3	40	3	1	47	197
05:30 PM	11	9	4	3	27	7	105	5	0	117	6	11	9	2	28	3	29	1	0	33	205
05:45 PM	8	1	1	3	13	9	126	3	1	139	2	7	3	3	15	9	27	1	0	37	204
Total	34	14	7	8	63	29	406	14	2	451	10	30	20	8	68	21	130	6	1	158	740
Grand Total	127	150	118	212	607	181	1642	58	209	2090	88	232	105	67	492	178	1310	33	4	1525	4714
Apprch %	20.9	24.7	19.4	34.9		8.7	78.6	2.8	10		17.9	47.2	21.3	13.6		11.7	85.9	2.2	0.3		
Total %	2.7	3.2	2.5	4.5	12.9	3.8	34.8	1.2	4.4	44.3	1.9	4.9	2.2	1.4	10.4	3.8	27.8	0.7	0.1	32.4	
Cars	127	150	118	212	607	180	1617	56	209	2062	85	232	100	67	484	176	1291	33	4	1504	4657
% Cars	100	100	100	100	100	99.4	98.5	96.6	100	98.7	96.6	100	95.2	100	98.4	98.9	98.5	100	100	98.6	98.8
Trucks	0	0	0	0	0	1	19	2	0	22	2	0	5	0	7	2	18	0	0	20	49
% Trucks	0	0	0	0	0	0.6	1.2	3.4	0	1.1	2.3	0	4.8	0	1.4	1.1	1.4	0	0	1.3	1
Buses	0	0	0	0	0	0	6	0	0	6	1	0	0	0	1	0	1	0	0	1	8
% Buses	0	0	0	0	0	0	0.4	0	0	0.3	1.1	0	0	0	0.2	0	0.1	0	0	0.1	0.2

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

Start Time	COOK AVENUE From North					LAKE AVENUE From East					COOK AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 07:30 AM

07:30 AM	4	8	7	13	32	27	39	0	6	72	5	36	2	1	44	12	80	1	0	93	241
07:45 AM	15	20	26	57	118	42	57	0	9	108	0	50	2	5	57	9	93	0	0	102	385
08:00 AM	9	26	18	13	66	14	47	1	5	67	3	18	2	3	26	10	64	0	0	74	233
08:15 AM	6	8	3	2	19	3	27	0	0	30	2	11	1	1	15	11	64	0	0	75	139
Total Volume	34	62	54	85	235	86	170	1	20	277	10	115	7	10	142	42	301	1	0	344	998
% App. Total	14.5	26.4	23	36.2		31	61.4	0.4	7.2		7	81	4.9	7		12.2	87.5	0.3	0		
PHF	.567	.596	.519	.373	.498	.512	.746	.250	.556	.641	.500	.575	.875	.500	.623	.875	.809	.250	.000	.843	.648
Cars	34	62	54	85	235	86	166	1	20	273	10	115	7	10	142	42	300	1	0	343	993
% Cars	100	100	100	100	100	100	97.6	100	100	98.6	100	100	100	100	100	100	99.7	100	0	99.7	99.5
Trucks	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	3
% Trucks	0	0	0	0	0	0	1.2	0	0	0.7	0	0	0	0	0	0	0.3	0	0	0.3	0.3
Buses	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
% Buses	0	0	0	0	0	0	1.2	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0.2

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 05:00 PM

05:00 PM	3	1	1	2	7	5	73	4	0	82	1	1	1	1	4	6	34	1	0	41	134
05:15 PM	12	3	1	0	16	8	102	2	1	113	1	11	7	2	21	3	40	3	1	47	197
05:30 PM	11	9	4	3	27	7	105	5	0	117	6	11	9	2	28	3	29	1	0	33	205
05:45 PM	8	1	1	3	13	9	126	3	1	139	2	7	3	3	15	9	27	1	0	37	204
Total Volume	34	14	7	8	63	29	406	14	2	451	10	30	20	8	68	21	130	6	1	158	740
% App. Total	54	22.2	11.1	12.7		6.4	90	3.1	0.4		14.7	44.1	29.4	11.8		13.3	82.3	3.8	0.6		
PHF	.708	.389	.438	.667	.583	.806	.806	.700	.500	.811	.417	.682	.556	.667	.607	.583	.813	.500	.250	.840	.902
Cars	34	14	7	8	63	29	404	14	2	449	10	30	20	8	68	21	129	6	1	157	737
% Cars	100	100	100	100	100	100	99.5	100	100	99.6	100	100	100	100	100	100	99.2	100	100	99.4	99.6
Trucks	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	3
% Trucks	0	0	0	0	0	0	0.5	0	0	0.4	0	0	0	0	0	0	0.8	0	0	0.6	0.4
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood

Intersection: Lake Ave & Summit Ave

Counter: RJS

Day of the Week: Wednesday

File Name : SUMMIT AND LAKE RJS 04.25.18

Site Code : 00000000

Start Date : 4/25/2018

Page No : 1

Groups Printed- Cars - Trucks - Buses

Start Time	SUMMIT AVENUE From North					LAKE AVENUE From East					SUMMIT AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	0	0	0	0	0	0	26	2	0	28	2	0	1	3	6	1	49	2	0	52	86
07:15 AM	1	0	1	1	3	0	30	0	0	30	3	0	0	2	5	1	87	0	0	88	126
07:30 AM	4	0	0	0	4	0	47	3	2	52	1	0	0	1	2	3	82	4	0	89	147
07:45 AM	8	0	2	3	13	0	69	8	0	77	6	1	1	1	9	4	79	3	0	86	185
Total	13	0	3	4	20	0	172	13	2	187	12	1	2	7	22	9	297	9	0	315	544
08:00 AM	1	1	0	0	2	2	34	3	0	39	1	0	1	0	2	2	54	0	0	56	99
08:15 AM	1	1	3	4	9	0	43	9	0	52	1	1	1	1	4	1	48	0	0	49	114
08:30 AM	1	2	0	6	9	0	38	3	6	47	3	0	0	0	3	5	58	1	0	64	123
08:45 AM	0	0	1	1	2	0	48	8	6	62	2	0	2	0	4	4	41	0	0	45	113
Total	3	4	4	11	22	2	163	23	12	200	7	1	4	1	13	12	201	1	0	214	449
09:00 AM	0	0	0	0	0	0	44	2	0	46	2	1	2	0	5	0	29	2	0	31	82
09:15 AM	2	0	0	0	2	0	36	3	0	39	1	0	0	0	1	0	30	0	0	30	72
09:30 AM	0	0	0	0	0	0	28	1	0	29	1	0	1	2	4	0	23	1	0	24	57
09:45 AM	1	0	0	0	1	0	36	0	0	36	2	0	0	0	2	1	23	0	2	26	65
Total	3	0	0	0	3	0	144	6	0	150	6	1	3	2	12	1	105	3	2	111	276
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood

Intersection: Lake Ave & Summit Ave

Counter: RJS

Day of the Week: Wednesday

File Name : SUMMIT AND LAKE RJS 04.25.18

Site Code : 00000000

Start Date : 4/25/2018

Page No : 2

Groups Printed- Cars - Trucks - Buses

Start Time	SUMMIT AVENUE From North					LAKE AVENUE From East					SUMMIT AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
11:00 AM	0	1	1	0	2	0	27	1	0	28	5	3	0	0	8	1	15	0	0	16	54
11:15 AM	1	1	0	3	5	0	32	0	0	32	3	1	0	2	6	1	22	2	0	25	68
11:30 AM	0	1	0	0	1	1	32	0	0	33	3	0	0	1	4	0	29	0	0	29	67
11:45 AM	1	0	0	0	1	0	29	1	0	30	2	1	1	2	6	3	31	1	0	35	72
Total	2	3	1	3	9	1	120	2	0	123	13	5	1	5	24	5	97	3	0	105	261
12:00 PM	4	1	0	2	7	0	35	1	1	37	2	0	1	0	3	3	19	2	0	24	71
12:15 PM	1	0	0	0	1	0	33	4	0	37	0	0	0	1	1	1	24	1	0	26	65
12:30 PM	0	4	0	3	7	0	23	0	0	23	1	3	0	0	4	0	9	2	3	14	48
12:45 PM	1	0	0	0	1	0	25	1	0	26	1	0	2	2	5	0	19	0	0	19	51
Total	6	5	0	5	16	0	116	6	1	123	4	3	3	3	13	4	71	5	3	83	235
01:00 PM	0	0	0	2	2	0	25	0	0	25	3	2	0	0	5	0	18	1	0	19	51
01:15 PM	2	5	0	5	12	1	34	0	2	37	1	0	2	0	3	1	25	0	3	29	81
01:30 PM	0	0	0	3	3	0	34	1	0	35	1	0	1	0	2	0	23	0	0	23	63
01:45 PM	0	0	0	0	0	2	43	3	0	48	2	0	0	0	2	1	24	1	0	26	76
Total	2	5	0	10	17	3	136	4	2	145	7	2	3	0	12	2	90	2	3	97	271
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood

Intersection: Lake Ave & Summit Ave

Counter: RJS

Day of the Week: Wednesday

File Name : SUMMIT AND LAKE RJS 04.25.18

Site Code : 00000000

Start Date : 4/25/2018

Page No : 3

Groups Printed- Cars - Trucks - Buses

Start Time	SUMMIT AVENUE From North					LAKE AVENUE From East					SUMMIT AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:00 PM	6	1	0	13	20	0	92	5	22	119	9	3	1	2	15	1	40	4	0	45	199
03:15 PM	2	0	0	9	11	1	48	3	5	57	1	0	0	0	1	1	32	0	0	33	102
03:30 PM	0	0	0	4	4	1	53	1	3	58	2	0	2	2	6	0	37	0	3	40	108
03:45 PM	0	2	1	1	4	0	56	2	0	58	2	2	1	0	5	0	34	0	1	35	102
Total	8	3	1	27	39	2	249	11	30	292	14	5	4	4	27	2	143	4	4	153	511
04:00 PM	6	0	0	7	13	1	89	1	1	92	1	0	0	2	3	3	39	1	1	44	152
04:15 PM	0	1	0	6	7	1	83	2	0	86	2	0	0	3	5	3	44	1	3	51	149
04:30 PM	2	1	0	6	9	2	75	1	2	80	6	1	1	4	12	0	39	3	4	46	147
04:45 PM	0	2	0	3	5	4	102	6	4	116	2	0	0	0	2	1	29	2	0	32	155
Total	8	4	0	22	34	8	349	10	7	374	11	1	1	9	22	7	151	7	8	173	603
05:00 PM	2	1	2	3	8	0	109	5	2	116	1	0	0	6	7	0	36	1	2	39	170
05:15 PM	1	2	0	2	5	1	106	10	0	117	8	1	0	1	10	3	40	2	1	46	178
05:30 PM	3	2	1	10	16	0	96	8	6	110	3	3	0	5	11	2	57	1	3	63	200
05:45 PM	3	0	0	13	16	2	131	5	0	138	3	0	0	0	3	1	52	1	0	54	211
Total	9	5	3	28	45	3	442	28	8	481	15	4	0	12	31	6	185	5	6	202	759
Grand Total	54	29	12	110	205	19	1891	103	62	2075	89	23	21	43	176	48	1340	39	26	1453	3909
Apprch %	26.3	14.1	5.9	53.7		0.9	91.1	5	3		50.6	13.1	11.9	24.4		3.3	92.2	2.7	1.8		
Total %	1.4	0.7	0.3	2.8	5.2	0.5	48.4	2.6	1.6	53.1	2.3	0.6	0.5	1.1	4.5	1.2	34.3	1	0.7	37.2	
Cars	53	29	12	105	199	19	1866	102	61	2048	87	23	21	40	171	47	1331	38	22	1438	3856
% Cars	98.1	100	100	95.5	97.1	100	98.7	99	98.4	98.7	97.8	100	100	93	97.2	97.9	99.3	97.4	84.6	99	98.6
Trucks	1	0	0	5	6	0	19	0	1	20	2	0	0	3	5	1	8	1	4	14	45
% Trucks	1.9	0	0	4.5	2.9	0	1	0	1.6	1	2.2	0	0	7	2.8	2.1	0.6	2.6	15.4	1	1.2
Buses	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	1	0	0	1	8
% Buses	0	0	0	0	0	0	0.3	1	0	0.3	0	0	0	0	0	0	0.1	0	0	0.1	0.2

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

Start Time	SUMMIT AVENUE From North					LAKE AVENUE From East					SUMMIT AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 07:15 AM

07:15 AM	1	0	1	1	3	0	30	0	0	30	3	0	0	2	5	1	87	0	0	88	126
07:30 AM	4	0	0	0	4	0	47	3	2	52	1	0	0	1	2	3	82	4	0	89	147
07:45 AM	8	0	2	3	13	0	69	8	0	77	6	1	1	1	9	4	79	3	0	86	185
08:00 AM	1	1	0	0	2	2	34	3	0	39	1	0	1	0	2	2	54	0	0	56	99
Total Volume	14	1	3	4	22	2	180	14	2	198	11	1	2	4	18	10	302	7	0	319	557
% App. Total	63.6	4.5	13.6	18.2		1	90.9	7.1	1		61.1	5.6	11.1	22.2		3.1	94.7	2.2	0		
PHF	.438	.250	.375	.333	.423	.250	.652	.438	.250	.643	.458	.250	.500	.500	.500	.625	.868	.438	.000	.896	.753
Cars	14	1	3	3	21	2	179	13	2	196	10	1	2	4	17	10	302	7	0	319	553
% Cars	100	100	100	75.0	95.5	100	99.4	92.9	100	99.0	90.9	100	100	100	94.4	100	100	100	0	100	99.3
Trucks	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
% Trucks	0	0	0	25.0	4.5	0	0	0	0	0	9.1	0	0	0	5.6	0	0	0	0	0	0.4
Buses	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	2
% Buses	0	0	0	0	0	0	0.6	7.1	0	1.0	0	0	0	0	0	0	0	0	0	0	0.4

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 05:00 PM

05:00 PM	2	1	2	3	8	0	109	5	2	116	1	0	0	6	7	0	36	1	2	39	170
05:15 PM	1	2	0	2	5	1	106	10	0	117	8	1	0	1	10	3	40	2	1	46	178
05:30 PM	3	2	1	10	16	0	96	8	6	110	3	3	0	5	11	2	57	1	3	63	200
05:45 PM	3	0	0	13	16	2	131	5	0	138	3	0	0	0	3	1	52	1	0	54	211
Total Volume	9	5	3	28	45	3	442	28	8	481	15	4	0	12	31	6	185	5	6	202	759
% App. Total	20	11.1	6.7	62.2		0.6	91.9	5.8	1.7		48.4	12.9	0	38.7		3	91.6	2.5	3		
PHF	.750	.625	.375	.538	.703	.375	.844	.700	.333	.871	.469	.333	.000	.500	.705	.500	.811	.625	.500	.802	.899
Cars	9	5	3	28	45	3	442	28	8	481	15	4	0	10	29	6	185	5	4	200	755
% Cars	100	100	100	100	100	100	100	100	100	100	100	100	0	83.3	93.5	100	100	100	66.7	99.0	99.5
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	2	2	4
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	16.7	6.5	0	0	0	33.3	1.0	0.5
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
Intersection: Lake Ave & Edwards Ave
Counter: DJS
Day of the week: Wednesday

File Name : Don Lakewood Lake Ave and Edwards Ave 4 25 18
Site Code : 00000000
Start Date : 4/25/2018
Page No : 1

Groups Printed- cars - trucks - buses

Start Time	From North					LAKE AVENUE From East					EDWARDS AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	0	0	0	0	0	0	24	2	0	26	7	0	0	0	7	1	22	0	0	23	56
07:15 AM	0	0	0	0	0	0	22	5	0	27	10	0	0	0	10	3	51	0	0	54	91
07:30 AM	0	0	0	0	0	0	39	5	0	44	15	0	3	0	18	2	36	0	0	38	100
07:45 AM	0	0	0	0	0	0	40	9	0	49	26	0	1	1	28	3	30	0	0	33	110
Total	0	0	0	0	0	0	125	21	0	146	58	0	4	1	63	9	139	0	0	148	357
08:00 AM	0	0	0	0	0	0	29	13	0	42	26	0	1	0	27	0	10	0	0	10	79
08:15 AM	0	0	0	0	0	0	27	6	0	33	15	0	0	0	15	1	16	0	0	17	65
08:30 AM	0	0	0	0	0	0	31	8	0	39	21	0	0	4	25	0	9	0	0	9	73
08:45 AM	0	0	0	0	0	0	29	11	0	40	28	0	2	0	30	1	7	0	0	8	78
Total	0	0	0	0	0	0	116	38	0	154	90	0	3	4	97	2	42	0	0	44	295
09:00 AM	0	0	0	0	0	0	37	5	0	42	8	0	0	0	8	2	15	0	0	17	67
09:15 AM	0	0	0	0	0	0	26	9	0	35	9	0	2	0	11	2	7	0	0	9	55
09:30 AM	0	0	0	0	0	0	18	6	0	24	10	0	0	0	10	0	16	0	0	16	50
09:45 AM	0	0	0	0	0	0	27	3	0	30	9	0	0	1	10	1	11	0	0	12	52
Total	0	0	0	0	0	0	108	23	0	131	36	0	2	1	39	5	49	0	0	54	224
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	2

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

File Name : Don Lakewood Lake Ave and Edwards Ave 4 25 18

Site Code : 00000000

Start Date : 4/25/2018

Page No : 2

Groups Printed- cars - trucks - buses

Start Time	From North					LAKE AVENUE From East					EDWARDS AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
11:00 AM	0	0	0	0	0	0	21	8	0	29	4	0	0	0	4	2	12	0	0	14	47
11:15 AM	0	0	0	0	0	0	23	7	0	30	2	0	0	1	3	2	12	0	0	14	47
11:30 AM	0	0	0	0	0	0	11	5	0	16	3	0	0	1	4	0	15	0	0	15	35
11:45 AM	0	0	0	0	0	0	28	7	0	35	4	0	1	0	5	0	18	0	0	18	58
Total	0	0	0	0	0	0	83	27	0	110	13	0	1	2	16	4	57	0	0	61	187
12:00 PM	0	0	0	0	0	0	25	6	0	31	2	0	1	0	3	3	13	0	0	16	50
12:15 PM	0	0	0	0	0	0	23	2	0	25	3	0	0	1	4	1	16	0	0	17	46
12:30 PM	0	0	0	0	0	0	23	2	0	25	3	0	1	0	4	3	15	0	0	18	47
12:45 PM	0	0	0	0	0	0	29	4	0	33	1	0	0	1	2	1	13	0	0	14	49
Total	0	0	0	0	0	0	100	14	0	114	9	0	2	2	13	8	57	0	0	65	192
01:00 PM	0	0	0	0	0	0	20	2	0	22	3	0	1	1	5	1	15	0	0	16	43
01:15 PM	0	0	0	0	0	0	19	9	0	28	1	0	0	1	2	4	20	0	0	24	54
01:30 PM	0	0	0	0	0	0	26	3	0	29	6	0	1	0	7	3	14	0	0	17	53
01:45 PM	0	0	0	0	0	0	25	9	0	34	3	0	1	1	5	2	15	0	0	17	56
Total	0	0	0	0	0	0	90	23	0	113	13	0	3	3	19	10	64	0	0	74	206
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

File Name : Don Lakewood Lake Ave and Edwards Ave 4 25 18

Site Code : 00000000

Start Date : 4/25/2018

Page No : 3

Groups Printed- cars - trucks - buses

Start Time	From North					LAKE AVENUE From East					EDWARDS AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:00 PM	0	0	0	0	0	0	59	7	0	66	9	0	2	0	11	0	24	0	0	24	101
03:15 PM	0	0	0	0	0	0	50	5	0	55	12	0	2	0	14	0	22	0	0	22	91
03:30 PM	0	0	0	0	0	0	35	8	0	43	5	0	1	0	6	3	21	0	0	24	73
03:45 PM	0	0	0	0	0	0	42	7	0	49	9	0	2	1	12	1	20	0	0	21	82
Total	0	0	0	0	0	0	186	27	0	213	35	0	7	1	43	4	87	0	0	91	347
04:00 PM	0	0	0	0	0	0	55	13	0	68	8	0	0	0	8	1	18	0	0	19	95
04:15 PM	0	0	0	0	0	0	61	10	0	71	7	0	0	0	7	1	26	0	0	27	105
04:30 PM	0	0	0	0	0	0	51	16	0	67	9	0	2	3	14	1	21	0	0	22	103
04:45 PM	0	0	0	0	0	0	68	18	0	86	8	0	0	5	13	0	20	0	0	20	119
Total	0	0	0	0	0	0	235	57	0	292	32	0	2	8	42	3	85	0	0	88	422
05:00 PM	0	0	0	0	0	0	73	17	0	90	9	0	1	1	11	3	23	0	0	26	127
05:15 PM	0	0	0	0	0	0	64	18	0	82	10	0	0	2	12	2	25	0	0	27	121
05:30 PM	0	0	0	0	0	0	81	15	0	96	10	0	0	4	14	1	21	0	0	22	132
05:45 PM	0	0	0	0	0	0	78	22	0	100	9	0	1	3	13	2	25	0	0	27	140
Total	0	0	0	0	0	0	296	72	0	368	38	0	2	10	50	8	94	0	0	102	520
Grand Total	0	0	0	0	0	0	1340	302	0	1642	324	0	26	32	382	53	674	1	0	728	2752
Approch %	0	0	0	0		0	81.6	18.4	0		84.8	0	6.8	8.4		7.3	92.6	0.1	0		
Total %	0	0	0	0	0	0	48.7	11	0	59.7	11.8	0	0.9	1.2	13.9	1.9	24.5	0	0	26.5	
cars	0	0	0	0	0	0	1321	298	0	1619	318	0	25	30	373	47	668	1	0	716	2708
% cars	0	0	0	0	0	0	98.6	98.7	0	98.6	98.1	0	96.2	93.8	97.6	88.7	99.1	100	0	98.4	98.4
trucks	0	0	0	0	0	0	18	4	0	22	5	0	1	2	8	6	6	0	0	12	42
% trucks	0	0	0	0	0	0	1.3	1.3	0	1.3	1.5	0	3.8	6.2	2.1	11.3	0.9	0	0	1.6	1.5
buses	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
% buses	0	0	0	0	0	0	0.1	0	0	0.1	0.3	0	0	0	0.3	0	0	0	0	0	0.1

TMS Engineers, Inc.

2112 Case Parkway S.

Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

Start Time	From North					LAKE AVENUE From East					EDWARDS AVENUE From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 07:15 AM

07:15 AM	0	0	0	0	0	0	22	5	0	27	10	0	0	0	10							
07:30 AM	0	0	0	0	0	0	39	5	0	44	15	0	0	0	18	³ 2	⁵¹ 36	0	0	⁵⁴ 38		100
07:45 AM	0	0	0	0	0	0	40	9	0	49	26	0	³ 1	1	28	3	30	0	0	33		110
08:00 AM	0	0	0	0	0	0	29	13	0	42	26	0	1	0	27	0	10	0	0	10		79
Total Volume	0	0	0	0	0	0	130	32	0	162	77	0	5	1	83	8	127	0	0	135		380
% App. Total	0	0	0	0	0	0	80.2	19.8	0		92.8	0	6	1.2		5.9	94.1	0	0			
PHF	.000	.000	.000	.000	.000	.000	.813	.615	.000	.827	.740	.000	.417	.250	.741	.667	.623	.000	.000	.625		.864
cars	0	0	0	0	0	0	130	32	0	162	77	0	5	1	83	8	127	0	0	135		380
% cars	0	0	0	0	0	0	100	100	0	100	100	0	100	100	100	100	100	0	0	100		100
trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
% trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
% buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0

Peak Hour Analysis From 02:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 05:00 PM

05:00 PM	0	0	0	0	0	0	73	17	0	90	9	0	1	1	11	3	23	0	0	26		127
05:15 PM	0	0	0	0	0	0	64	18	0	82	10	0	0	2	12	2	25	0	0	27		121
05:30 PM	0	0	0	0	0	0	81	15	0	96	10	0	0	4	14	1	21	0	0	22		132
05:45 PM	0	0	0	0	0	0	78	22	0	100	9	0	1	3	13	2	25	0	0	27		140
Total Volume	0	0	0	0	0	0	296	72	0	368	38	0	2	10	50	8	94	0	0	102		520
% App. Total	0	0	0	0	0	0	80.4	19.6	0		76	0	4	20		7.8	92.2	0	0			
PHF	.000	.000	.000	.000	.000	.000	.914	.818	.000	.920	.950	.000	.500	.625	.893	.667	.940	.000	.000	.944		.929
cars	0	0	0	0	0	0	296	72	0	368	38	0	2	10	50	7	94	0	0	101		519
% cars	0	0	0	0	0	0	100	100	0	100	100	0	100	100	100	87.5	100	0	0	99.0		99.8
trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1		1
% trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5	0	0	0	1.0		0.2
buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
% buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0

JMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

City: Lakewood
Intersection: Lake Ave & Webb Rd
Counter: GFA
Day of the week: Wednesday

File Name : Gary Lakewood Lake Ave and Webb 4 25 18
Site Code : 00000000
Start Date : 4/25/2018
Page No : 1

Groups Printed- cars - trucks - buses

Start Time	WEBB ROAD From North					LAKE AVENUE From East					WEBB ROAD From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
07:00 AM	1	3	0	0	4	0	4	19	0	23	24	1	0	0	25	0	9	1	0	10	62
07:15 AM	1	1	0	3	5	0	5	19	0	24	45	0	0	0	45	1	9	0	0	10	84
07:30 AM	1	0	0	0	1	0	6	35	0	41	15	1	1	0	17	1	19	0	2	22	81
07:45 AM	2	1	0	6	9	0	11	36	0	47	11	0	0	0	11	2	19	1	2	24	91
Total	5	5	0	9	19	0	26	109	0	135	95	2	1	0	98	4	56	2	4	66	318
08:00 AM	5	1	1	2	9	0	9	21	0	30	7	1	2	0	10	0	5	2	6	13	62
08:15 AM	2	0	0	2	4	1	7	21	0	29	4	0	0	0	4	2	6	1	0	9	46
08:30 AM	1	2	0	0	3	0	10	20	0	30	5	0	0	0	5	0	5	0	0	5	43
08:45 AM	0	1	1	0	2	0	10	21	0	31	2	2	1	0	5	0	2	1	1	4	42
Total	8	4	2	4	18	1	36	83	0	120	18	3	3	0	24	2	18	4	7	31	193
09:00 AM	2	1	0	1	4	0	7	27	0	34	13	1	0	0	14	0	2	0	1	3	55
09:15 AM	0	1	1	2	4	0	10	16	2	28	9	0	1	1	11	3	3	0	0	6	49
09:30 AM	2	1	0	0	3	1	4	16	0	21	9	1	1	0	11	0	9	2	4	15	50
09:45 AM	3	0	0	0	3	0	6	24	2	32	7	1	1	0	9	1	4	2	2	9	53
Total	7	3	1	3	14	1	27	83	4	115	38	3	3	1	45	4	18	4	7	33	207
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

JMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

File Name : Gary Lakewood Lake Ave and Webb 4 25 18

Site Code : 00000000

Start Date : 4/25/2018

Page No : 2

Groups Printed- cars - trucks - buses

Start Time	WEBB ROAD From North					LAKE AVENUE From East					WEBB ROAD From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
11:00 AM	1	0	0	0	1	1	6	16	0	23	8	0	0	0	8	0	3	2	0	5	37
11:15 AM	2	0	0	0	2	0	8	16	0	24	9	1	0	0	10	1	5	2	0	8	44
11:30 AM	1	1	0	0	2	1	6	19	0	26	15	3	0	0	18	0	2	2	0	4	50
11:45 AM	2	1	0	0	3	0	10	19	0	29	12	1	1	2	16	0	7	3	0	10	58
Total	6	2	0	0	8	2	30	70	0	102	44	5	1	2	52	1	17	9	0	27	189
12:00 PM	2	0	0	5	7	0	8	18	9	35	10	3	1	0	14	0	3	3	0	6	62
12:15 PM	0	1	0	1	2	0	8	17	0	25	9	1	0	0	10	1	7	1	0	9	46
12:30 PM	0	2	0	0	2	1	7	18	0	26	10	4	0	0	14	2	3	0	1	6	48
12:45 PM	1	2	0	0	3	3	5	19	1	28	10	0	0	1	11	0	3	1	1	5	47
Total	3	5	0	6	14	4	28	72	10	114	39	8	1	1	49	3	16	5	2	26	203
01:00 PM	0	0	0	6	6	0	10	12	2	24	13	2	1	0	16	0	12	4	0	16	62
01:15 PM	0	0	0	0	0	1	9	14	0	24	10	2	1	0	13	1	8	2	0	11	48
01:30 PM	1	2	0	0	3	1	6	21	0	28	9	2	3	0	14	0	4	5	0	9	54
01:45 PM	0	1	0	0	1	0	7	21	0	28	14	1	2	0	17	0	4	2	0	6	52
Total	1	3	0	6	10	2	32	68	2	104	46	7	7	0	60	1	28	13	0	42	216
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

JMS Engineers, Inc.

2112 Case Parkway S.
Unit #7

Twinsburg, Ohio, 44087

Ph: (330) 686-6402 Fax: (330) 686-6417

File Name : Gary Lakewood Lake Ave and Webb 4 25 18

Site Code : 00000000

Start Date : 4/25/2018

Page No : 3

Groups Printed- cars - trucks - buses

Start Time	WEBB ROAD From North					LAKE AVENUE From East					WEBB ROAD From South					LAKE AVENUE From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
03:00 PM	1	0	0	0	1	2	23	37	0	62	18	1	2	1	22	2	4	1	0	7	92
03:15 PM	1	0	0	0	1	0	22	29	0	51	16	1	3	0	20	1	6	2	0	9	81
03:30 PM	2	1	1	0	4	0	12	18	0	30	17	0	2	0	19	0	6	3	0	9	62
03:45 PM	0	0	0	6	6	0	12	38	0	50	15	1	0	0	16	1	3	0	0	4	76
Total	4	1	1	6	12	2	69	122	0	193	66	3	7	1	77	4	19	6	0	29	311
04:00 PM	0	0	0	0	0	0	19	41	0	60	14	0	2	0	16	2	7	1	0	10	86
04:15 PM	0	0	1	1	2	0	13	50	0	63	16	0	0	0	16	0	8	1	2	11	92
04:30 PM	2	3	0	0	5	0	21	27	0	48	19	0	2	0	21	1	8	1	0	10	84
04:45 PM	0	0	1	4	5	0	22	48	0	70	15	4	2	0	21	0	2	3	3	8	104
Total	2	3	2	5	12	0	75	166	0	241	64	4	6	0	74	3	25	6	5	39	366
05:00 PM	0	0	0	0	0	0	35	38	2	75	20	3	1	2	26	0	2	2	2	6	107
05:15 PM	3	0	0	2	5	1	36	41	0	78	20	5	2	2	29	2	8	3	5	18	130
05:30 PM	0	0	1	5	6	1	30	49	0	80	13	3	2	4	22	2	3	7	1	13	121
05:45 PM	3	0	1	6	10	1	31	57	5	94	22	1	2	2	27	1	7	1	5	14	145
Total	6	0	2	13	21	3	132	185	7	327	75	12	7	10	104	5	20	13	13	51	503
Grand Total	42	26	8	52	128	15	455	958	23	1451	485	47	36	15	583	27	217	62	38	344	2506
Apprch %	32.8	20.3	6.2	40.6		1	31.4	66	1.6		83.2	8.1	6.2	2.6		7.8	63.1	18	11		
Total %	1.7	1	0.3	2.1	5.1	0.6	18.2	38.2	0.9	57.9	19.4	1.9	1.4	0.6	23.3	1.1	8.7	2.5	1.5	13.7	
cars	40	26	8	51	125	15	450	949	23	1437	478	47	35	14	574	25	216	60	36	337	2473
% cars	95.2	100	100	98.1	97.7	100	98.9	99.1	100	99	98.6	100	97.2	93.3	98.5	92.6	99.5	96.8	94.7	98	98.7
trucks	2	0	0	1	3	0	4	9	0	13	7	0	1	1	9	2	1	2	2	7	32
% trucks	4.8	0	0	1.9	2.3	0	0.9	0.9	0	0.9	1.4	0	2.8	6.7	1.5	7.4	0.5	3.2	5.3	2	1.3
buses	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
% buses	0	0	0	0	0	0	0.2	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0

