

Helmcken Road @ Holland Avenue

Wednesday, October 23, 2019



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Major Route: Helmcken Road
Minor Route: Holland Avenue
Municipality: Saanich
Filename: Helmcken Rd @ Holland Ave-Oct 23, 2019.xlsx
Location #: TIN001364
Count ID: 2019040
Date: October 23, 2019
Day-of-week: Wednesday

East/West Route: Holland Avenue
Intersection Type: 3-leg west approach
Signalized?: No
Weather: Overcast and dry

Vehicle Classifications: Vehicles and Peds
 Bikes

This data is for Vehicles and Peds

Shift	Start	End	Duration
AM	7:30	9:30	2.00
MD			
PM	15:30	18:30	3.00
Total	7:30	18:30	5.00

Notes: 24-hour clock used for reporting (15-minute increments)
 North Approach - southbound vehicles approaching intersection from the north
 15x4 - 15 min volume (from maximum 15 minute period of movement/approach in peak hour period [*]) x 4
 Pedestrians - N indicates pedestrians crossing north approach (east/west)

Comments:

Survey Data
Vehicles and Peds

Helmcken Road @ Holland Avenue
Wednesday, October 23, 2019

Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				Holland Ave WEST Approach				Holland Ave EAST Approach				Total Volume		Ped n/c	Crosswalks			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E
	7:30		135	0	135	8	140		148	0		19	19					302				1	0
7:45		146	1	147	9	142		151	6		19	25					323			0	0	0	
8:00		148	0	148	2	146		148	4		14	18					314			0	0	3	
8:15		126	2	128	3	153		156	1		11	12					296	1235 *		0	0	0	
8:30		130	2	132	3	150		153	2		7	9					294	1227 *		0	0	0	
8:45		176	3	179	10	120		130	2		14	16					325	1229 *		0	0	1	
9:00		153	3	156	13	143		156	2		15	17					329	1244 +		0	0	0	
9:15		127	1	128	3	150		153	1		9	10					291	1239		0	0	0	
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n/a																							
n/a																							
Total		1141	12	1153	51	1144		1195	18		108	126					2474			1	0	5	

n/a																						
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Total																						

15:30		142	0	142	19	146		165	0		22	22					329		*	0	0	0
15:45		137	0	137	13	153		166	0		37	37					340		+	0	0	0
16:00		118	0	118	16	125		141	0		21	21					280		*	0	0	2
16:15		130	0	130	15	148		163	0		30	30					323	1272 *		0	0	1
16:30		110	0	110	15	149		164	1		31	32					306	1249		0	0	0
16:45		111	0	111	19	125		144	0		38	38					293	1202		0	0	1
17:00		132	0	132	15	154		169	0		33	33					334	1256		0	0	1
17:15		118	0	118	16	145		161	0		31	31					310	1243		0	0	3
17:30		124	0	124	10	148		158	2		32	34					316	1253		0	0	1
17:45		128	0	128	11	111		122	0		16	16					266	1226		0	0	1
18:00		128	0	128	8	112		120	0		14	14					262	1154		0	0	0
18:15		142	0	142	7	95		102	0		12	12					256	1100		0	0	0
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n/a																						
n/a																						
n/a																						
Total		1520	0	1520	164	1611		1775	3		317	320					3615			0	0	10

Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				Holland Ave WEST Approach				Holland Ave EAST Approach				Total Volume		V _{conf}	Crosswalks				Conflict	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min	Hr
7:30		135	0	135	8	140		148	0		19	19					302			1	0	1		162	
7:45		146	1	147	9	142		151	6		19	25					323			0	0	0		175	
8:00		148	0	148	2	146		148	4		14	18					314			0	0	3		164	
8:15		126	2	128	3	153		156	1		11	12					296	1235*		0	0	0		164	665
8:30		130	2	132	3	150		153	2		7	9					294	1227*		0	0	0		157	660
8:45		176	3	179	10	120		130	2		14	16					325	1229*		0	0	1		203	688
9:00		153	3	156	13	143		156	2		15	17					329	1244+		0	0	0		184	708
9:15		127	1	128	3	150		153	1		9	10					291	1239		0	0	0		159	703
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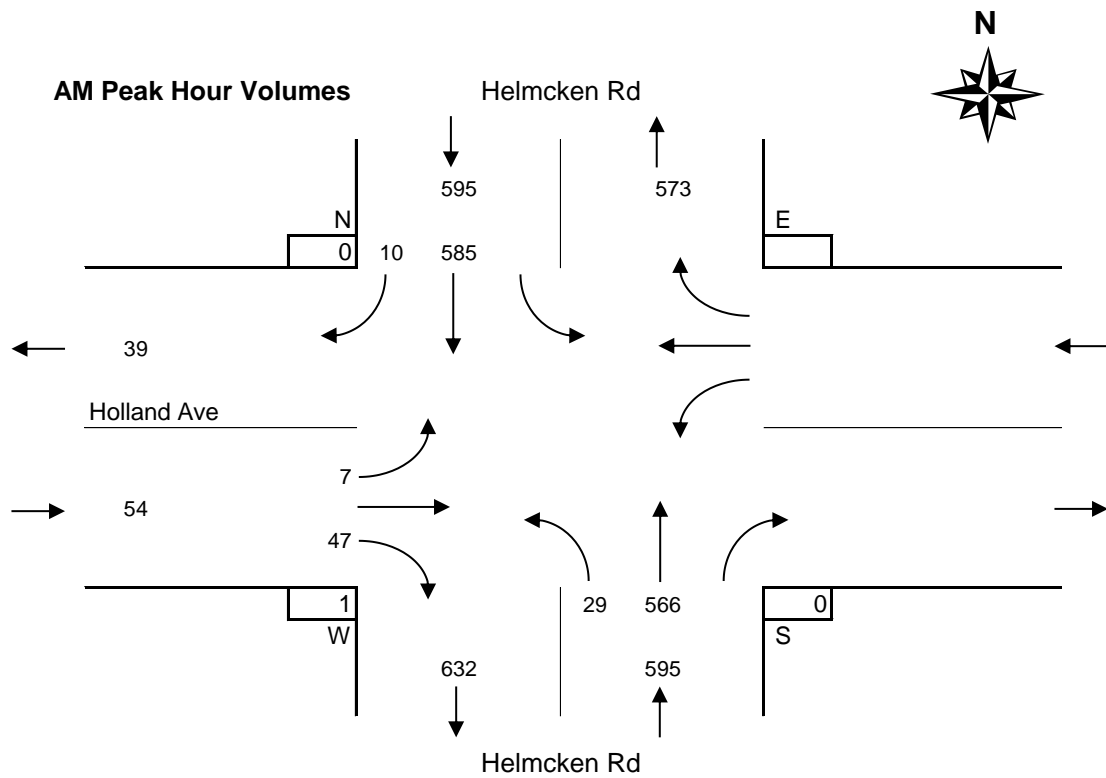
Total		1141	12	1153	51	1144		1195	18		108	126					2474			1	0	5		1312
Avg Hr		571	6	577	26	572		598	9		54	63					1237			1	0	3		

Peak hour of the intersection

Pk Hr		585	10	595	29	566		595	7		47	54					1244*			0	0	1		671
15x4		704	12	716	52	612		624	8		60	68					1316+			0	0	4		828
PHF		0.83	0.83	0.83	0.56	0.92		0.95	0.88		0.78	0.79					0.95			n/a	n/a	0.25		0.81

Peak hour of conflicting volumes for the intersection

Pk Hr		585	10	595	29	566		595	7		47	54					1244*			0	0	1		671
15x4		704	12	716	52	612		624	8		60	68					1316+			0	0	4		828
PHF		0.83	0.83	0.83	0.56	0.92		0.95	0.88		0.78	0.79					0.95			n/a	n/a	0.25		0.81



Time Period Begins	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume		Ped Vol	Crosswalks				Conflict				
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach				15-min	Hour		N	S	W	E	15 min	Hr			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total												
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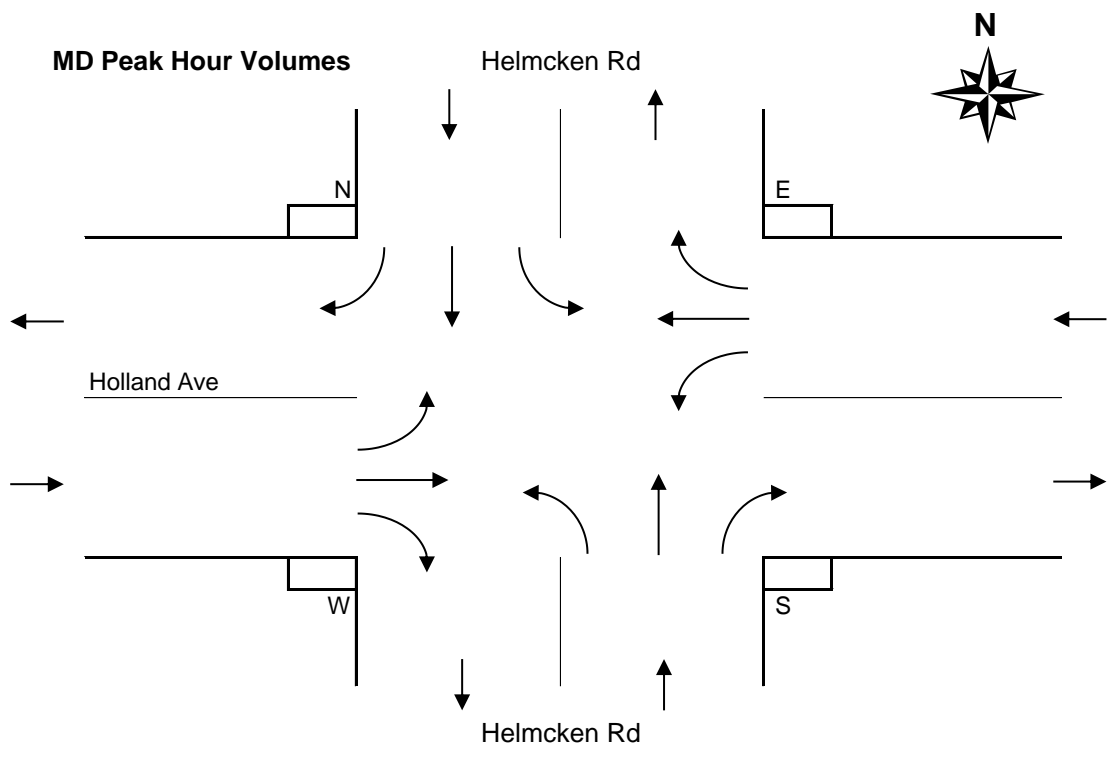
Total																												
Avg Hr																												

Peak hour of the intersection

Pk Hr																												
15x4																												
PHF																												

Peak hour of conflicting volumes for the intersection

Pk Hr																												
15x4																												
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Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				Holland Ave WEST Approach				Holland Ave EAST Approach				Total Volume		Pedestrians	Crosswalks				Conflict	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min	Hr
	15:30		142	0	142	19	146		165	0		22	22					329		*	0	0	0		183
15:45		137	0	137	13	153		166	0		37	37					340	+	0	0	0		190		
16:00		118	0	118	16	125		141	0		21	21					280	*	0	0	2		155		
16:15		130	0	130	15	148		163	0		30	30					323	*	0	0	1		178	706	
16:30		110	0	110	15	149		164	1		31	32					306	1249	0	0	0		180	703	
16:45		111	0	111	19	125		144	0		38	38					293	1202	0	0	1		168	681	
17:00		132	0	132	15	154		169	0		33	33					334	1256	0	0	1		187	713	
17:15		118	0	118	16	145		161	0		31	31					310	1243	0	0	3		176	711	
17:30		124	0	124	10	148		158	2		32	34					316	1253	0	0	1		180	711	
17:45		128	0	128	11	111		122	0		16	16					266	1226	0	0	1		155	698	
18:00		128	0	128	8	112		120	0		14	14					262	1154	0	0	0		150	661	
18:15		142	0	142	7	95		102	0		12	12					256	1100	0	0	0		161	646	
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Total		1520	0	1520	164	1611		1775	3		317	320					3615			0	0	10		2001
Avg Hr		507	0	507	55	537		592	1		106	107					1205			0	0	3		

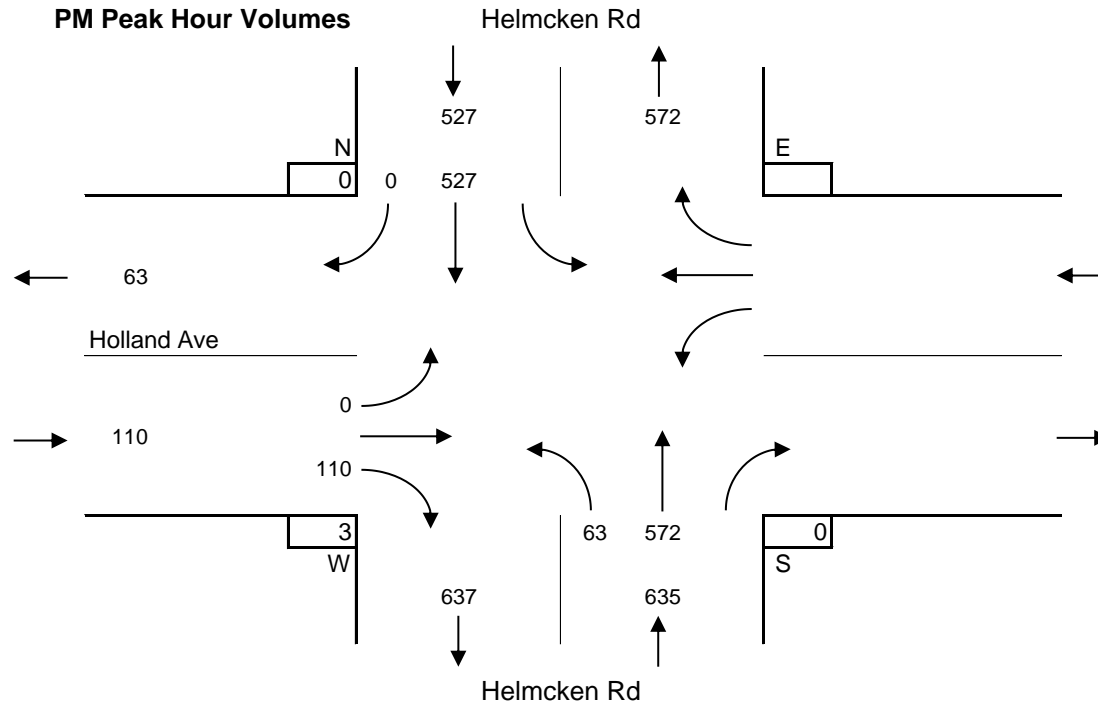
Peak hour of the intersection

Pk Hr		527	0	527	63	572		635	0		110	110					1272	*		0	0	3		700
15x4		568	0	568	76	612		664	0		148	148					1360	+		0	0	8		792
PHF		0.93	n/a	0.93	0.83	0.93		0.96	n/a		0.74	0.74					0.94			n/a	n/a	0.38		0.88

Peak hour of conflicting volumes for the intersection

Pk Hr		483	0	483	64	576		640	1		132	133					1256	*		0	0	3		708
15x4		528	0	528	76	616		676	4		152	152					1336	+		0	0	4		768
PHF		0.91	n/a	0.91	0.84	0.94		0.95	0.25		0.87	0.88					0.94			n/a	n/a	0.75		0.92

** Calculated peak hour occurs during the first or last hour of shift and therefore may be invalid. ** N



Entire Survey Period

5 Hours

	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total		2661	12	2673	215	2755		2970	21		425	446					6089	1	0	15	
Avg Hr		532	2	535	43	551		594	4		85	89					1218	0	0	3	

AM Peak Period

2 Hours

	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Totals		1141	12	1153	51	1144		1195	18		108	126					2474	1	0	5	
Avg Hr		571	6	577	26	572		598	9		54	63					1237	1	0	3	

MD Peak Period

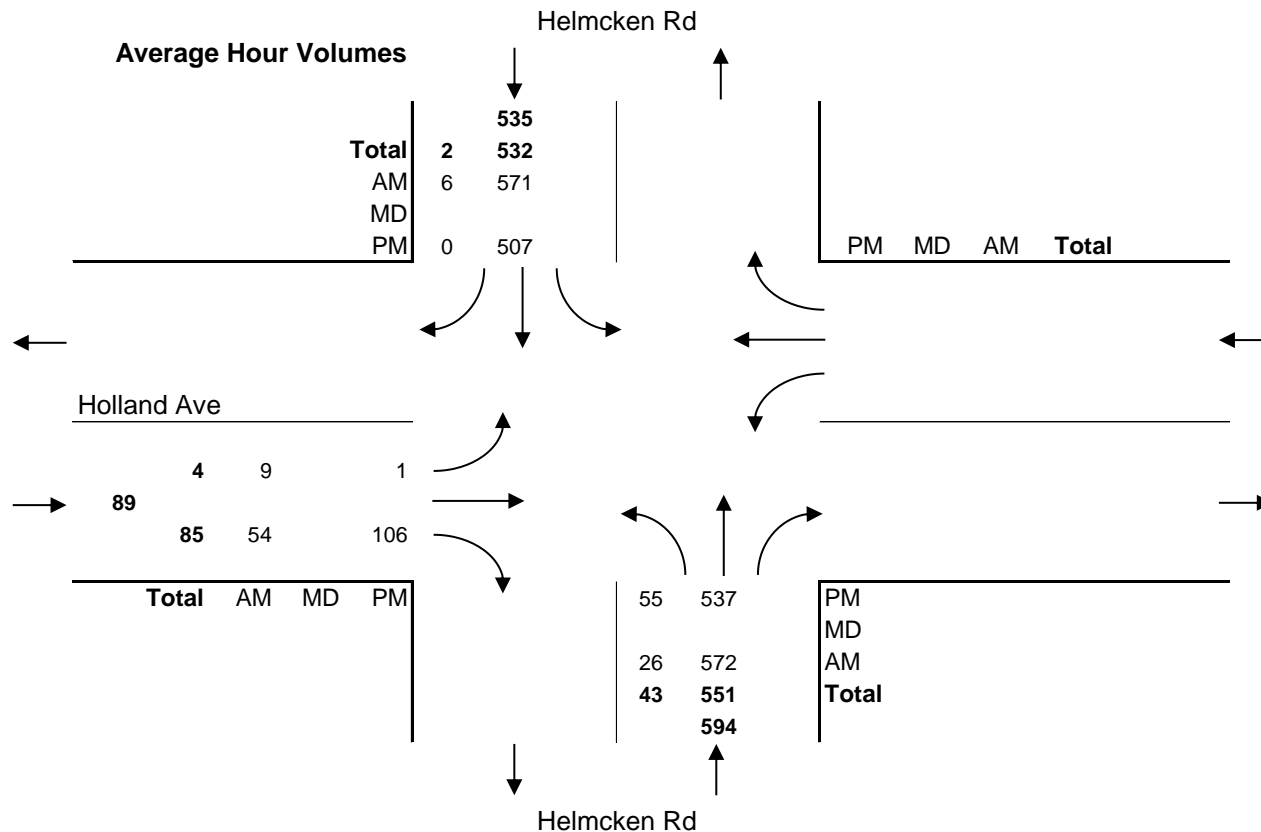
Hours

	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total																					
Avg Hr																					

PM Peak Period

3 Hours

	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total		1520	0	1520	164	1611		1775	3		317	320					3615	0	0	10	
Avg Hr		507	0	507	55	537		592	1		106	107					1205	0	0	3	



Major Route: Helmcken Road
Minor Route: Holland Avenue
Municipality: Saanich
Filename: Helmcken Rd @ Holland Ave-Oct 23, 2019.xlsx
Location #: TIN001364
Count ID: 2019040
Date: October 23, 2019
Day-of-week: Wednesday

East/West Route: Holland Avenue
Intersection Type: 4-leg
Signalized?: No
Weather: Overcast and dry

Vehicle Classifications: Vehicles and Peds
 Bikes

This data is for Bikes

Shift	Start	End	Duration
AM	7:30	9:30	2.00
MD			
PM	15:30	18:30	3.00
Total	7:30	18:30	5.00

Notes: 24-hour clock used for reporting (15-minute increments)
 North Approach - southbound vehicles approaching intersection from the north
 15x4 - 15 min volume (from maximum 15 minute period of movement/approach in peak hour period [*]) x 4
 Pedestrians - N indicates pedestrians crossing north approach (east/west)

Comments:

Survey Data
Bikes

Helmcken Road @ Holland Avenue
Wednesday, October 23, 2019

Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				Holland Ave WEST Approach				Holland Ave EAST Approach				Total Volume		Peak Period	Direction			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E
	7:30	0	2	0	2	0	2	0	2	0	0	0	0	0	0	0	0	4			*	0	0
7:45	0	2	0	2	2	2	0	4	0	0	0	0	0	0	0	0	6		+	0	0	0	0
8:00	0	1	0	1	0	5	0	5	0	0	0	0	0	0	0	0	6		*	0	0	0	0
8:15	0	0	0	0	2	3	0	5	0	0	1	1	0	0	0	0	6	22	*	0	0	0	0
8:30	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2	20		0	0	0	0
8:45	0	0	0	0	3	1	0	4	0	0	0	0	0	0	0	0	4	18		0	0	0	0
9:00	0	0	0	0	1	0	0	1	0	0	2	2	0	0	0	0	3	15		0	0	0	0
9:15	0	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	2	11		0	0	0	0
n/a																							
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Total	0	6	0	6	8	15	0	23	0	0	4	4	0	0	0	0	33			0	0	0	0

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n/a																							
n/a																							
n/a																							
Total																							

15:30	0	0	0	0	0	1	0	1	0	0	2	2	0	0	0	0	3			0	0	0	0
15:45	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2			0	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2			0	0	0	0
16:15	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	8		0	0	0	0
16:30	0	2	0	2	2	1	0	3	0	0	0	0	0	0	0	0	5	10	*	0	0	0	0
16:45	0	3	0	3	0	0	0	0	0	0	1	1	0	0	0	0	4	12	*	0	0	0	0
17:00	0	1	0	1	0	1	0	1	0	0	1	1	0	0	0	0	3	13	*	0	0	0	0
17:15	0	1	0	1	1	3	0	4	1	0	0	1	0	0	0	0	6	18	+	0	0	0	0
17:30	0	2	0	2	1	1	0	2	0	0	1	1	0	0	0	0	5	18		0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	16		0	0	0	0
18:00	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2	15		0	0	0	0
18:15	0	0	0	0	1	0	0	1	0	0	2	2	0	0	0	0	3	12		0	0	0	0
n/a																							
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n/a																							
n/a																							
n/a																							
n/a																							
Total	0	9	0	9	7	9	0	16	1	0	12	13	0	0	0	0	38			0	0	0	0

Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				Holland Ave WEST Approach				Holland Ave EAST Approach				Total Volume		Conflict	Conflict					
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min	Hr
	15:30	0	0	0	0	0	1	0	1	0	0	2	2	0	0	0	0	3			0	0	0	0	3
15:45	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	2		0	0	0	0	2		
16:00	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2		0	0	0	0	2		
16:15	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	8	0	0	0	0	1	8	
16:30	0	2	0	2	2	1	0	3	0	0	0	0	0	0	0	0	5	10*	0	0	0	0	4	9	
16:45	0	3	0	3	0	0	0	0	0	0	1	1	0	0	0	0	4	12*	0	0	0	0	4	11	
17:00	0	1	0	1	0	1	0	1	0	0	1	1	0	0	0	0	3	13*	0	0	0	0	2	11	
17:15	0	1	0	1	1	3	0	4	1	0	0	1	0	0	0	0	6	18+	0	0	0	0	4	14	
17:30	0	2	0	2	1	1	0	2	0	0	1	1	0	0	0	0	5	18	0	0	0	0	4	14	
17:45	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	16	0	0	0	0	2	12	
18:00	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2	15	0	0	0	0	2	12	
18:15	0	0	0	0	1	0	0	1	0	0	2	2	0	0	0	0	3	12	0	0	0	0	3	11	
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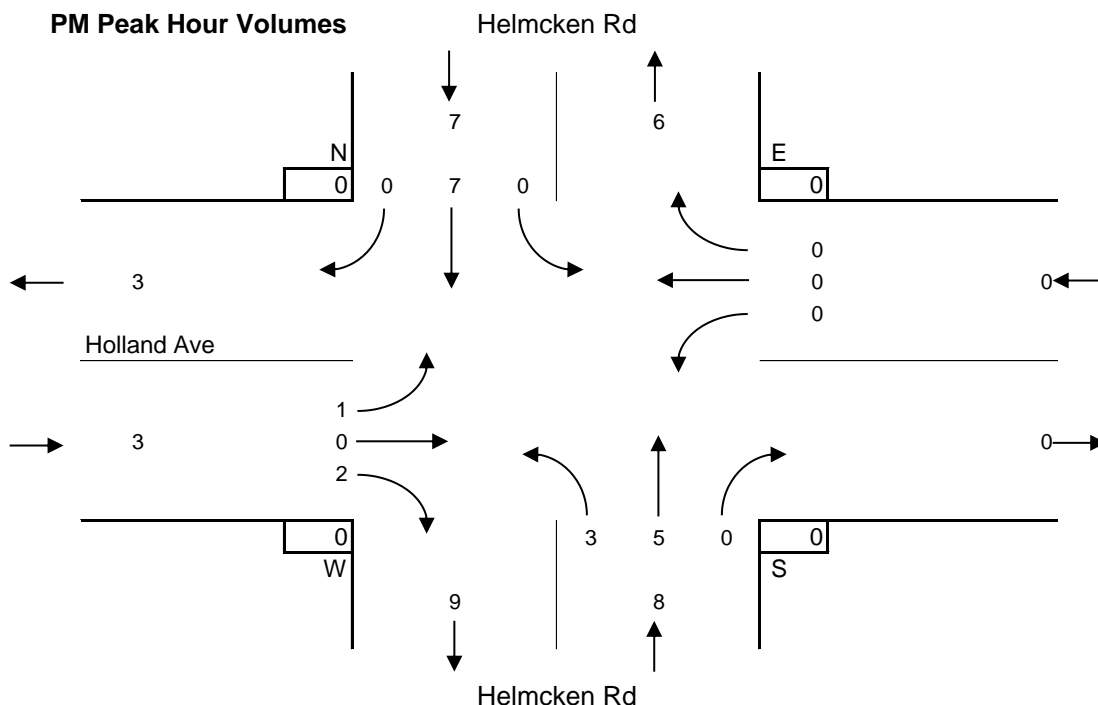
Total	0	9	0	9	7	9	0	16	1	0	12	13	0	0	0	0	38							28
Avg Hr	0	3	0	3	2	3	0	5	0	0	4	4	0	0	0	0	13							

Peak hour of the intersection

Pk Hr	0	7	0	7	3	5	0	8	1	0	2	3	0	0	0	0	18*							12
15x4	0	12	0	12	8	12	0	16	4	0	4	4	0	0	0	0	24+							24
PHF	n/a	0.58	n/a	0.58	0.38	0.42	n/a	0.50	0.25	n/a	0.50	0.75	n/a	n/a	n/a	n/a	0.75							0.50

Peak hour of conflicting volumes for the intersection

Pk Hr	0	7	0	7	3	5	0	8	1	0	2	3	0	0	0	0	18*							12
15x4	0	12	0	12	8	12	0	16	4	0	4	4	0	0	0	0	24+							24
PHF	n/a	0.58	n/a	0.58	0.38	0.42	n/a	0.50	0.25	n/a	0.50	0.75	n/a	n/a	n/a	n/a	0.75							0.50



Entire Survey Period

5 Hours

	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume					
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total						
Total	0	15	0	15	15	24	0	39	1	0	16	17	0	0	0	0	0	71	0	0	0	0
Avg Hr	0	3	0	3	3	5	0	8	0	0	3	3	0	0	0	0	0	14	0	0	0	0

AM Peak Period

2 Hours

	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume					
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total						
Totals	0	6	0	6	8	15	0	23	0	0	4	4	0	0	0	0	0	33	0	0	0	0
Avg Hr	0	3	0	3	4	8	0	12	0	0	2	2	0	0	0	0	0	17	0	0	0	0

MD Peak Period

Hours

	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume					
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total						
Totals																						
Total																						
Avg Hr																						

PM Peak Period

3 Hours

	Helmcken Rd				Helmcken Rd				Holland Ave				Holland Ave				Total Volume					
	NORTH Approach				SOUTH Approach				WEST Approach				EAST Approach					N	S	W	E	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total						
Totals	0	9	0	9	7	9	0	16	1	0	12	13	0	0	0	0	0	38	0	0	0	0
Avg Hr	0	3	0	3	2	3	0	5	0	0	4	4	0	0	0	0	0	13	0	0	0	0

