

Quadra Street @ Union Road

Wednesday, April 03, 2019



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Major Route: Quadra Street
Minor Route: Union Road
Municipality: Saanich
Filename: Quadra St @ Union Rd-Apr 3, 2019.xlsx
Location #: TIN000815
Count ID: 2019022
Date: April 3, 2019
Day-of-week: Wednesday

East/West Route: Union Road
Intersection Type: 3-leg east 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

Time Period Begins	Quadra St				Quadra St				WEST Approach				Union Rd				Total Volume		Ped	Crosswalks			
	NORTH Approach				SOUTH Approach				Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E
7:30	6	130		136		108	8	116					6		9	15	267			0	0		2
7:45	4	155		159		133	6	139					8		17	25	323			0	0		7
8:00	11	146		157		152	6	158					12		18	30	345	*		0	0		9
8:15	14	179		193		170	10	180					12		17	29	402	1337	+	0	0		2
8:30	14	154		168		143	10	153					5		18	23	344	1414	*	0	0		0
8:45	12	135		147		154	7	161					11		15	26	334	1425	*	0	0		2
9:00	5	118		123		112	7	119					12		9	21	263	1343		0	0		0
9:15	9	134		143		141	9	150					3		11	14	307	1248		0	0		2
n/a																							
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n/a																							
Total	75	1151		1226		1113	63	1176					69		114	183	2585			0	0		24

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Total																							

15:30	7	167		174		183	12	195					8		19	27	396			0	0		4
15:45	11	164		175		193	13	206					7		11	18	399			0	0		2
16:00	9	186		195		187	12	199					4		18	22	416			0	0		2
16:15	9	126		135		212	8	220					3		16	19	374	1585		0	0		6
16:30	8	171		179		205	14	219					3		11	14	412	1601	*	0	0		7
16:45	6	170		176		225	11	236					4		30	34	446	1648	+	0	0		8
17:00	10	166		176		202	18	220					2		23	25	421	1653	*	0	0		3
17:15	13	144		157		222	6	228					9		19	28	413	1692	*	0	0		5
17:30	7	117		124		187	13	200					5		14	19	343	1623		1	0		4
17:45	6	122		128		133	10	143					5		12	17	288	1465		0	0		4
18:00	2	120		122		137	6	143					3		6	9	274	1318		0	0		2
18:15	12	91		103		119	8	127					8		14	22	252	1157		0	0		2
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Total	100	1744		1844		2205	131	2336					61		193	254	4434			1	0		49

Time Period Begins	Quadra St NORTH Approach				Quadra St SOUTH Approach				WEST Approach				Union Rd EAST Approach				Total Volume		Sd/Pl	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	6	130		136		108	8	116					6		9	15	267		0	0		2	139		
7:45	4	155		159		133	6	139					8		17	25	323		0	0		7	172		
8:00	11	146		157		152	6	158					12		18	30	345	*	0	0		9	187		
8:15	14	179		193		170	10	180					12		17	29	402	1337	+	0	0		2	211	709
8:30	14	154		168		143	10	153					5		18	23	344	1414	*	0	0		0	185	755
8:45	12	135		147		154	7	161					11		15	26	334	1425	*	0	0		2	188	771
9:00	5	118		123		112	7	119					12		9	21	263	1343		0	0		0	136	720
9:15	9	134		143		141	9	150					3		11	14	307	1248		0	0		2	170	679
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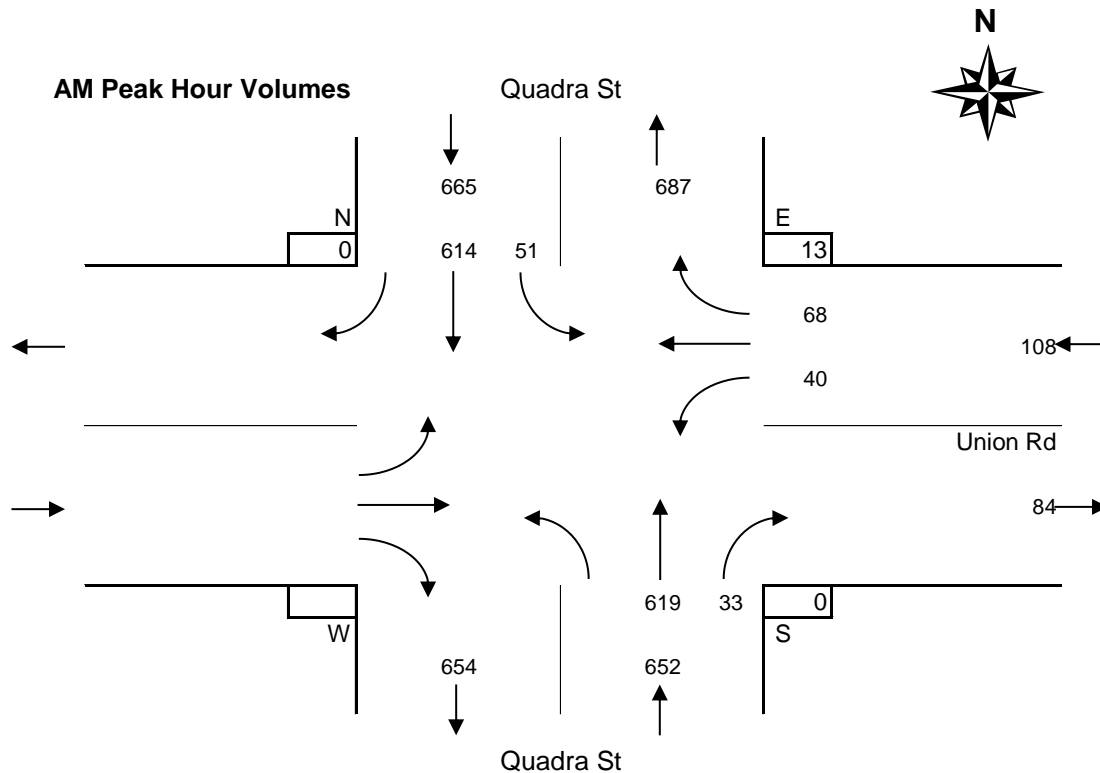
Total	75	1151		1226		1113	63	1176					69		114	183	2585					0	0		24	1365
Avg Hr	38	576		613		557	32	588					35		57	92	1293					0	0		12	

Peak hour of the intersection

Pk Hr	51	614		665		619	33	652					40		68	108	1425	*				0	0		13	771
15x4	56	716		772		680	40	720					48		72	120	1608	+				0	0		36	848
PHF	0.91	0.86		0.86		0.91	0.83	0.91					0.83		0.94	0.90	0.89					n/a	n/a		0.36	0.91

Peak hour of conflicting volumes for the intersection

Pk Hr	51	614		665		619	33	652					40		68	108	1425	*				0	0		13	771
15x4	56	716		772		680	40	720					48		72	120	1608	+				0	0		36	848
PHF	0.91	0.86		0.86		0.91	0.83	0.91					0.83		0.94	0.90	0.89					n/a	n/a		0.36	0.91



Time Period Begins	Quadra St NORTH Approach				Quadra St SOUTH Approach				WEST Approach				Union Rd EAST Approach				Total Volume		Day of Week	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
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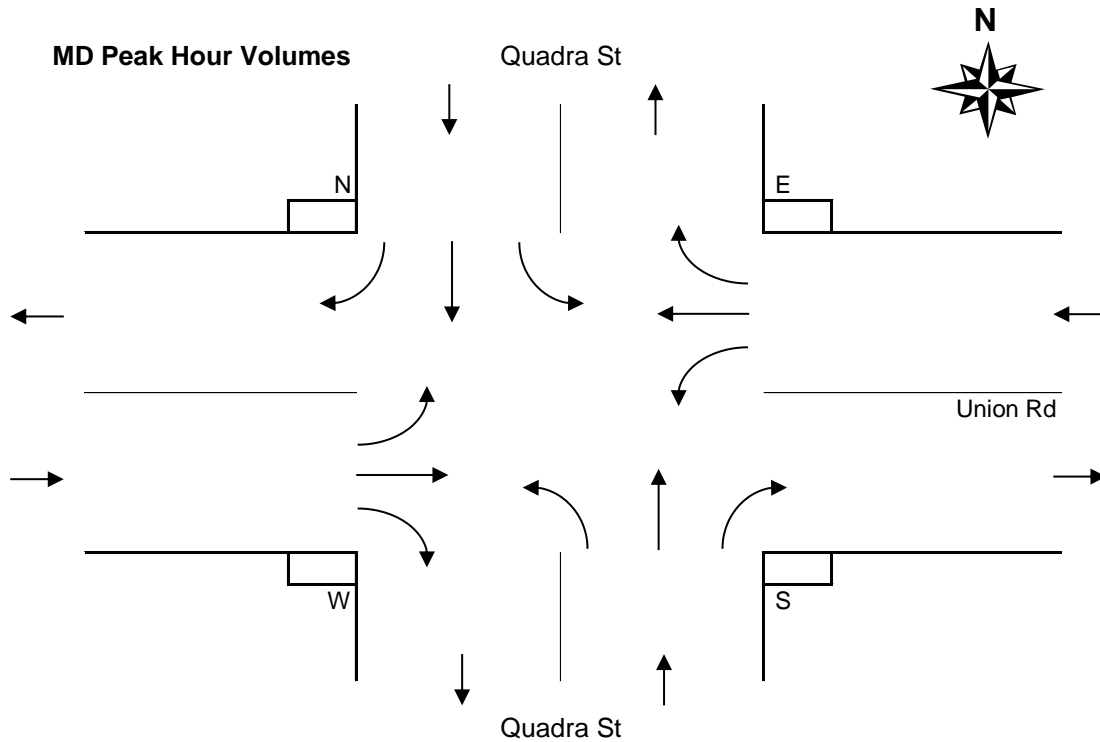
Total																								
Avg Hr																								

Peak hour of the intersection

Pk Hr																								
15x4																								
PHF																								

Peak hour of conflicting volumes for the intersection

Pk Hr																								
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Time Period Begins	Quadra St NORTH Approach				Quadra St SOUTH Approach				WEST Approach				Union Rd EAST Approach				Total Volume		Speed	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	7	167		174		183	12	195					8		19	27	396			0	0		4	221
15:45	11	164		175		193	13	206					7		11	18	399		0	0		2	228		
16:00	9	186		195		187	12	199					4		18	22	416		0	0		2	226		
16:15	9	126		135		212	8	220					3		16	19	374	1585	0	0		6	245	920	
16:30	8	171		179		205	14	219					3		11	14	412	1601	*	0	0		7	238	937
16:45	6	170		176		225	11	236					4		30	34	446	1648	+	0	0		8	272	981
17:00	10	166		176		202	18	220					2		23	25	421	1653	*	0	0		3	253	1008
17:15	13	144		157		222	6	228					9		19	28	413	1692	*	0	0		5	260	1023
17:30	7	117		124		187	13	200					5		14	19	343	1623		1	0		4	221	1006
17:45	6	122		128		133	10	143					5		12	17	288	1465		0	0		4	161	895
18:00	2	120		122		137	6	143					3		6	9	274	1318		0	0		2	151	793
18:15	12	91		103		119	8	127					8		14	22	252	1157		0	0		2	153	686
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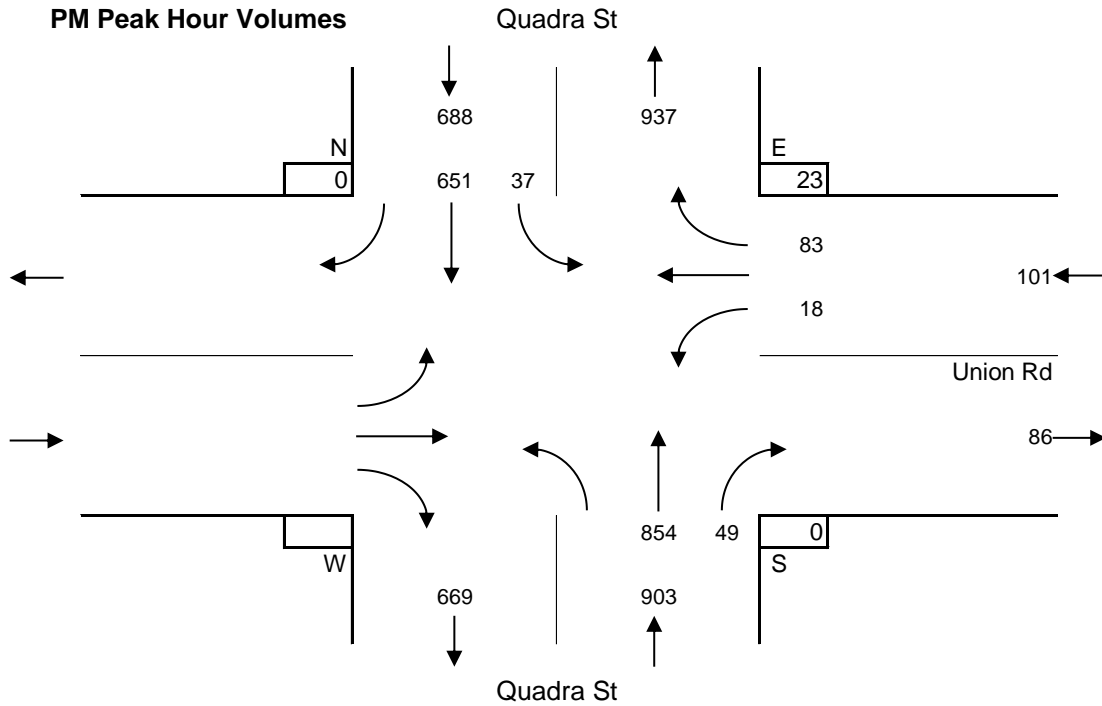
Total	100	1744		1844		2205	131	2336					61		193	254	4434					1	0		49		2629
Avg Hr	33	581		615		735	44	779					20		64	85	1478					0	0		16		

Peak hour of the intersection

Pk Hr	37	651		688		854	49	903					18		83	101	1692	*				0	0		23		1023
15x4	52	684		716		900	72	944					36		120	136	1784	+				0	0		32		1144
PHF	0.71	0.95		0.96		0.95	0.68	0.96					0.50		0.69	0.74	0.95					n/a	n/a		0.72		0.89

Peak hour of conflicting volumes for the intersection

Pk Hr	37	651		688		854	49	903					18		83	101	1692	*				0	0		23		1023
15x4	52	684		716		900	72	944					36		120	136	1784	+				0	0		32		1144
PHF	0.71	0.95		0.96		0.95	0.68	0.96					0.50		0.69	0.74	0.95					n/a	n/a		0.72		0.89



Entire Survey Period

5 Hours

	Quadra St				Quadra St				Union Rd				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	175	2895		3070		3318	194	3512					130		307	437	7019	1	0		73
Avg Hr	35	579		614		664	39	702					26		61	87	1404	0	0		15

AM Peak Period

2 Hours

	Quadra St				Quadra St				Union Rd				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	75	1151		1226		1113	63	1176					69		114	183	2585	0	0		24
Avg Hr	38	576		613		557	32	588					35		57	92	1293	0	0		12

MD Peak Period

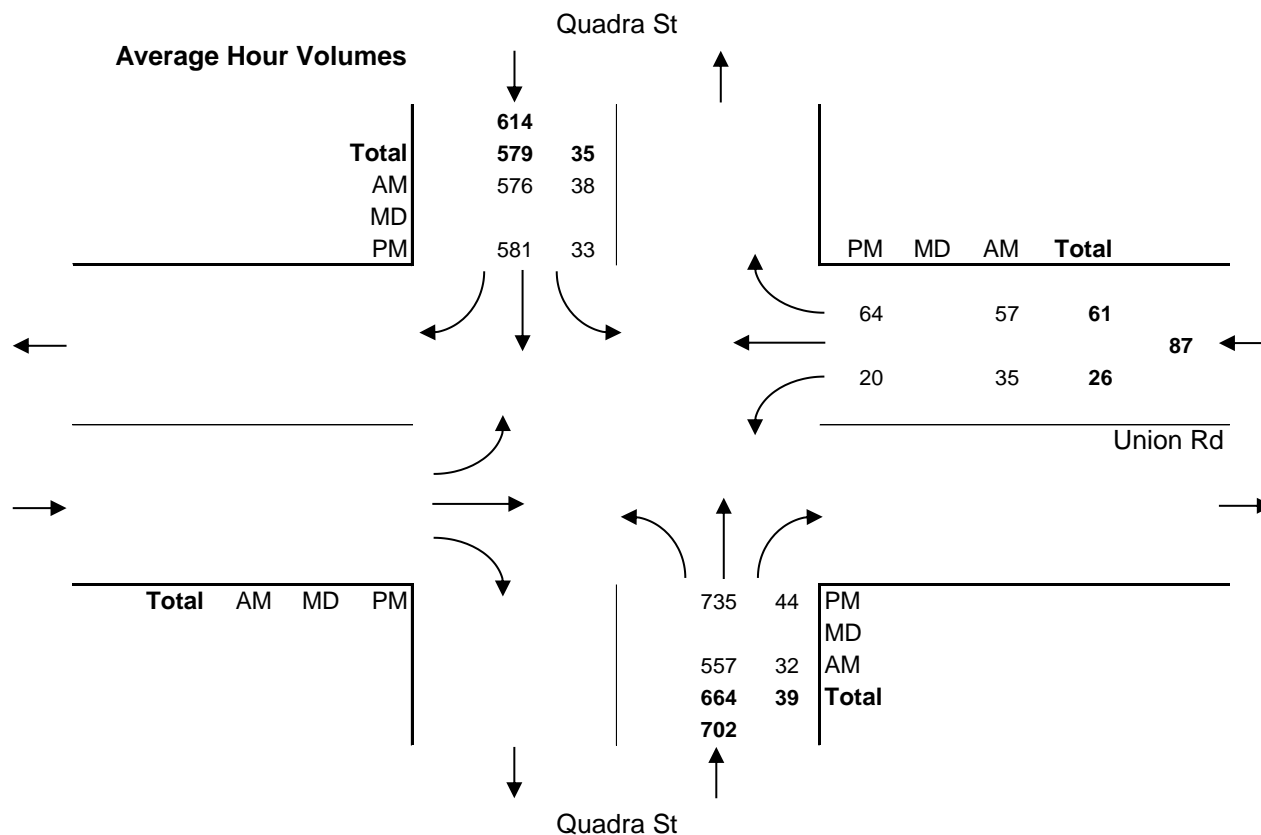
Hours

	Quadra St				Quadra St				Union Rd				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

	Quadra St				Quadra St				Union Rd				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	100	1744		1844		2205	131	2336					61		193	254	4434	1	0		49
Avg Hr	33	581		615		735	44	779					20		64	85	1478	0	0		16



Major Route: Quadra Street
Minor Route: Union Road
Municipality: Saanich
Filename: Quadra St @ Union Rd-Apr 3, 2019.xlsx
Location #: TIN000815
Count ID: 2019022
Date: April 3, 2019
Day-of-week: Wednesday

East/West Route: Union Road
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:

Time Period Begins	Quadra St				Quadra St				WEST Approach				EAST Approach				Total Volume		15 min	Hour	Conflict				
	NORTH Approach				SOUTH Approach				Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour			N	S	W	E	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour			15 min	Hr			
7:30	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	*	0	0	0	0	2	
7:45	0	1	0	1	0	3	0	3	0	0	0	0	0	0	0	0	0	4	+	0	0	0	0	3	
8:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	*	0	0	0	0	1	
8:15	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	2	9*	0	0	0	0	2	8
8:30	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	0	0	0	0	2	8
8:45	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	2	7	0	0	0	0	2	7
9:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	1	7
9:15	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	1	6
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Total	0	7	0	7	0	6	0	6	0	0	0	0	2	0	0	2	15			0	0	0	0		9
Avg Hr	0	4	0	4	0	3	0	3	0	0	0	0	1	0	0	1	8			0	0	0	0		

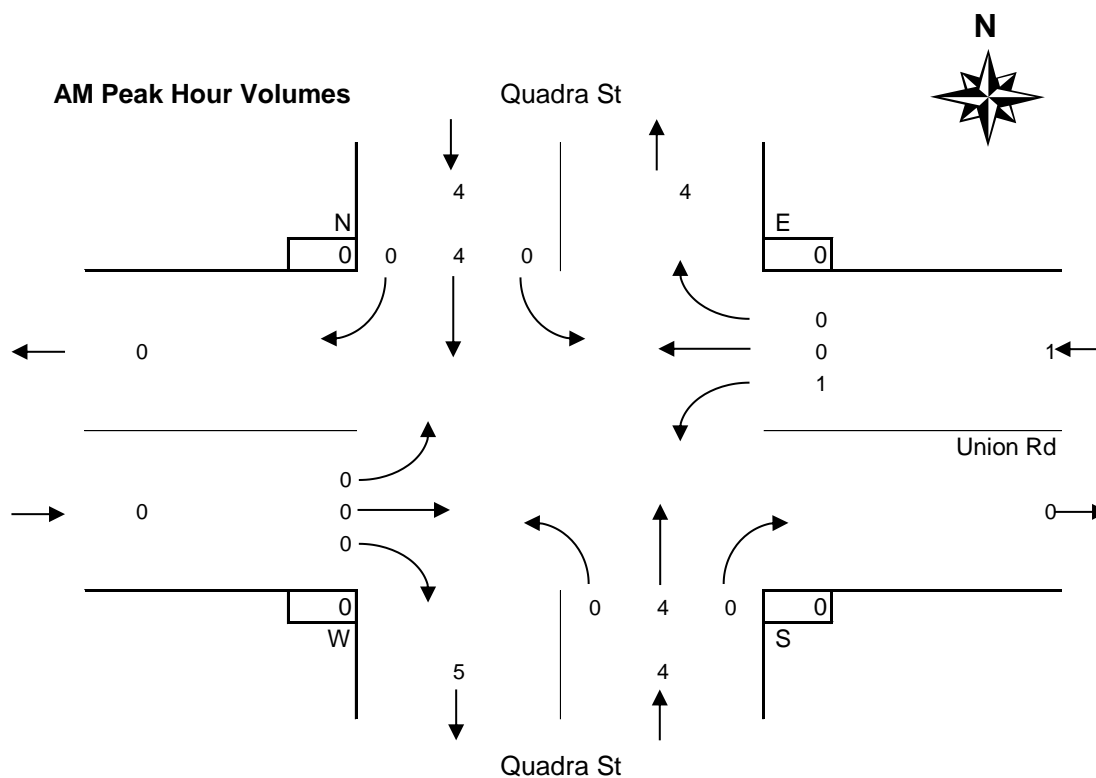
Peak hour of the intersection

Pk Hr	0	4	0	4	0	4	0	4	0	0	0	0	1	0	0	1	9*			0	0	0	0		5
15x4	0	8	0	8	0	12	0	12	0	0	0	0	4	0	0	4	16*			0	0	0	0		16
PHF	n/a	0.50	n/a	0.50	n/a	0.33	n/a	0.33	n/a	n/a	n/a	n/a	0.25	n/a	n/a	0.25	0.56			n/a	n/a	n/a	n/a		0.31

Peak hour of conflicting volumes for the intersection

Pk Hr	0	4	0	4	0	4	0	4	0	0	0	0	1	0	0	1	9*			0	0	0	0		5
15x4	0	8	0	8	0	12	0	12	0	0	0	0	4	0	0	4	16*			0	0	0	0		16
PHF	n/a	0.50	n/a	0.50	n/a	0.33	n/a	0.33	n/a	n/a	n/a	n/a	0.25	n/a	n/a	0.25	0.56			n/a	n/a	n/a	n/a		0.31

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



Time Period Begins	Quadra St NORTH Approach				Quadra St SOUTH Approach				WEST Approach				Union Rd EAST Approach				Total Volume		Peak Period	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
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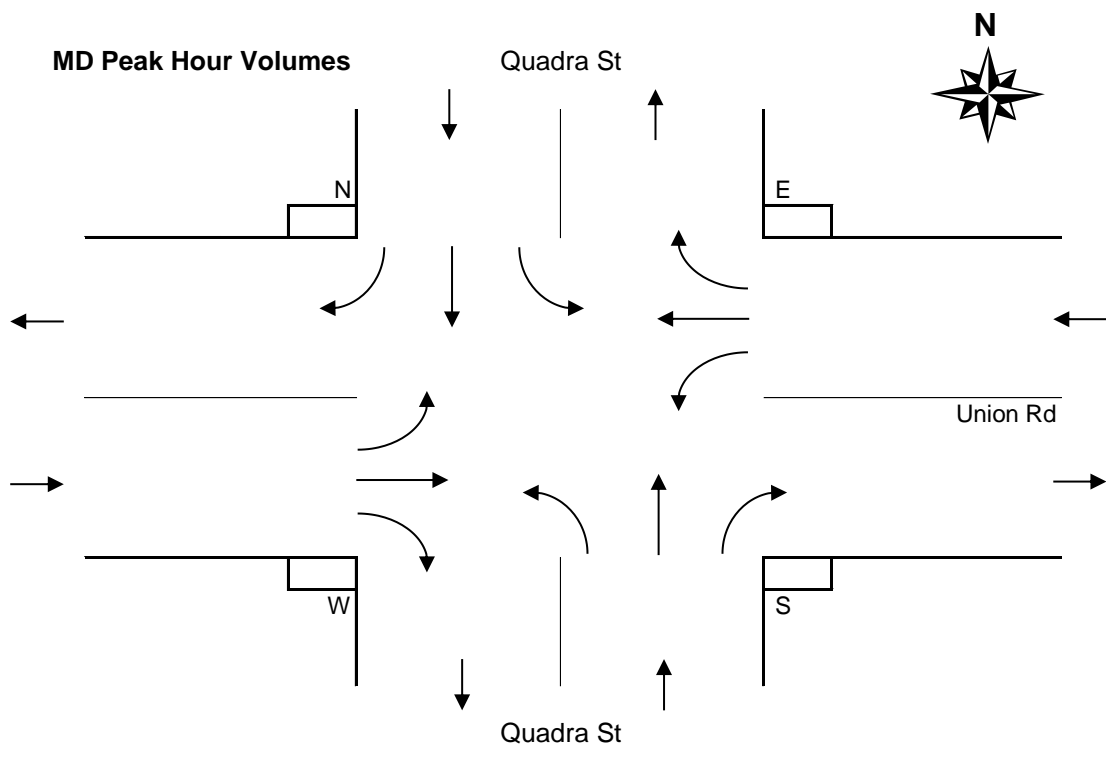
Total																								
Avg Hr																								

Peak hour of the intersection

Pk Hr																								
15x4																								
PHF																								

Peak hour of conflicting volumes for the intersection

Pk Hr																								
15x4																								
PHF																								



Time Period Begins	Quadra St NORTH Approach				Quadra St SOUTH Approach				WEST Approach				EAST Approach				Total Volume		Speed	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	3	0	3	0	0	1	1	0	0	0	0	0	0	0	0	4			0	0	0	0	3
15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0		
16:00	0	1	0	1	0	1	1	2	0	0	0	0	0	0	0	0	3		0	0	0	0	2		
16:15	0	2	0	2	0	2	0	2	0	0	0	0	0	0	0	0	4	11	0	0	0	0	2	7	
16:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7		0	0	0	0	0	4	
16:45	0	2	0	2	0	1	0	1	0	0	0	0	0	0	0	0	3	10	0	0	0	0	2	6	
17:00	0	0	0	0	0	1	1	2	0	0	0	0	0	0	1	1	3	10	0	0	0	0	3	7	
17:15	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	2	8	0	0	0	0	1	6	
17:30	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2	10*	0	0	0	0	1	7	
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7*		0	0	0	0	0	5	
18:00	0	1	0	1	0	1	1	2	0	0	0	0	0	0	0	0	3	7*	0	0	0	0	2	4	
18:15	0	2	0	2	0	4	0	4	0	0	0	0	0	0	1	1	7	12+	0	0	0	0	5	8	
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n/a																									

Total	0	13	0	13	0	11	5	16	0	0	0	0	0	0	2	2	31							
Avg Hr	0	4	0	4	0	4	2	5	0	0	0	0	0	0	1	1	10							

0	0	0	0	18
0	0	0	0	

Peak hour of the intersection

Pk Hr	0	4	0	4	0	6	1	7	0	0	0	0	0	0	1	1	12*
15x4	0	8	0	8	0	16	4	16	0	0	0	0	0	4	4	28*	
PHF	n/a	0.50	n/a	0.50	n/a	0.38	0.25	0.44	n/a	n/a	n/a	n/a	n/a	n/a	0.25	0.25	0.43

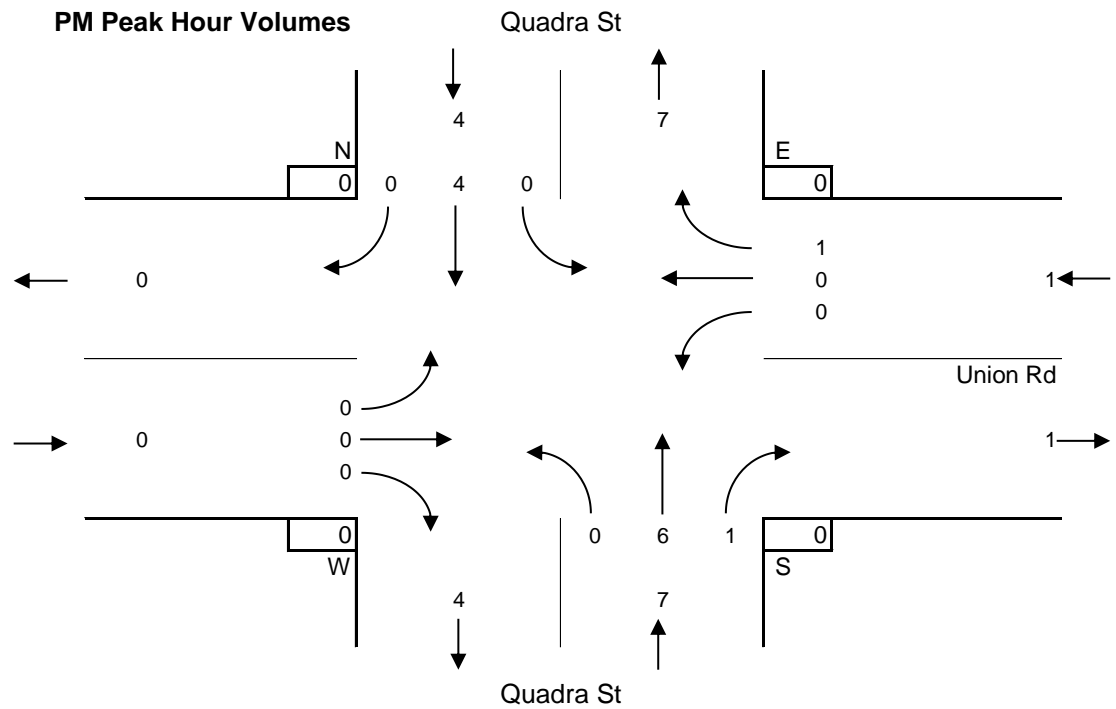
0	0	0	0	8
0	0	0	0	24
n/a	n/a	n/a	n/a	0.33

Peak hour of conflicting volumes for the intersection

Pk Hr	0	4	0	4	0	6	1	7	0	0	0	0	0	0	1	1	12*
15x4	0	8	0	8	0	16	4	16	0	0	0	0	0	4	4	28*	
PHF	n/a	0.50	n/a	0.50	n/a	0.38	0.25	0.44	n/a	n/a	n/a	n/a	n/a	n/a	0.25	0.25	0.43

0	0	0	0	8
0	0	0	0	24
n/a	n/a	n/a	n/a	0.33

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



Entire Survey Period

5 Hours

	Quadra St				Quadra St				WEST Approach				Union Rd				Total Volume				
	NORTH Approach				SOUTH 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	20	0	20	0	17	5	22	0	0	0	0	2	0	2	4	46	0	0	0	0
Avg Hr	0	4	0	4	0	3	1	4	0	0	0	0	0	0	0	1	9	0	0	0	0

AM Peak Period

2 Hours

	Quadra St				Quadra St				WEST Approach				Union Rd				Total Volume				
	NORTH Approach				SOUTH 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	7	0	7	0	6	0	6	0	0	0	0	2	0	0	2	15	0	0	0	0
Avg Hr	0	4	0	4	0	3	0	3	0	0	0	0	1	0	0	1	8	0	0	0	0

MD Peak Period

Hours

	Quadra St				Quadra St				WEST Approach				Union Rd				Total Volume				
	NORTH Approach				SOUTH 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

	Quadra St				Quadra St				WEST Approach				Union Rd				Total Volume				
	NORTH Approach				SOUTH 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	13	0	13	0	11	5	16	0	0	0	0	0	0	2	2	31	0	0	0	0
Avg Hr	0	4	0	4	0	4	2	5	0	0	0	0	0	0	1	1	10	0	0	0	0

