



## Traffic Signal Warrant Exercise

1. Evaluate the raw traffic volumes for Main Street and Warrant Way against the current MUTCD signal warrants 1,2 and 3. A spreadsheet file of the raw volumes and a complete MUTCD are available on the course website.
2. Prepare a simple (college assignment type) report consisting of the following:
  - A summary sheet with your name, name of intersection and a clear statement of whether each warrant was met or not met (*if this were a consulting report, you would also write a narrative to support the findings and include detail on the date etc. of the data collection*)
  - Warrant 1 detail - a printout of your spreadsheet clearly showing hourly major street and high-volume minor street volumes, clearly indicate for each hour whether warrant conditions are met or not met
  - Warrant 2 detail – a copy of the appropriate MUTCD graph with each of your analysis points clearly plotted\*, also include a small table that shows the x-y plot flows for each point
  - Warrant 3 detail – a copy of the appropriate MUTCD graph with each of your analysis points clearly plotted\*, also include a small table that shows the x-y plot flows for each point
  - \*(note that when major street volumes are greater than the max. value show on the x-axis of the graph, simply plot them at the max. value point)

*Due Friday, May 22*

# Raw Volumes

## 2: Main Street & Warrant Way

5/19/2009

Time	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
07:00	13	114	5	4	194	64	35	9	12	4	10	3
07:15	17	130	7	17	229	215	69	36	19	8	34	5
07:30	16	213	12	8	302	120	96	60	25	7	34	4
07:45	1	273	15	27	335	13	28	14	7	5	2	8
08:00	1	276	9	15	214	5	11	4	2	4	1	9
08:15	2	110	3	8	208	11	16	1	2	6	4	4
08:30	1	66	4	4	152	5	4	2	1	14	1	7
08:45	3	115	7	10	201	13	11	0	4	8	0	8
09:00	2	75	2	7	132	5	10	4	2	2	2	1
09:15	3	33	3	1	89	5	2	0	0	2	0	1
09:30	1	55	1	3	109	6	6	1	1	4	0	1
09:45	4	60	1	6	104	10	6	3	0	3	0	1
10:00	0	87	2	3	36	5	4	0	0	3	0	5
10:15	2	103	3	6	142	6	4	1	4	11	0	5
10:30	2	124	6	5	151	5	8	3	3	4	0	0
10:45	2	124	1	6	145	1	5	0	3	7	2	2
11:00	0	0	0	0	0	0	0	0	0	0	0	0
11:15	0	0	0	0	0	0	0	0	0	0	0	0
11:30	0	0	0	0	0	0	0	0	0	0	0	0
11:45	0	0	0	0	0	0	0	0	0	0	0	0
12:00	0	0	0	0	0	0	0	0	0	0	0	0
12:15	0	0	0	0	0	0	0	0	0	0	0	0
12:30	0	0	0	0	0	0	0	0	0	0	0	0
12:45	0	0	0	0	0	0	0	0	0	0	0	0
13:00	0	0	0	0	0	0	0	0	0	0	0	0
13:15	0	0	0	0	0	0	0	0	0	0	0	0
13:30	0	0	0	0	0	0	0	0	0	0	0	0
13:45	0	0	0	0	0	0	0	0	0	0	0	0
14:00	3	132	5	3	139	9	59	10	19	5	2	9
14:15	1	114	4	2	169	12	8	1	3	6	1	3
14:30	8	116	6	2	110	27	2	1	2	10	7	13
14:45	23	178	7	4	194	48	50	16	17	9	11	4
15:00	9	185	4	6	133	62	112	38	29	9	10	7
15:15	3	175	5	4	174	23	44	5	6	3	2	6
15:30	10	66	3	6	176	16	20	4	11	2	2	1
15:45	5	187	9	6	179	21	34	2	7	10	3	9
16:00	6	198	3	5	260	14	10	0	3	20	1	14
16:15	2	234	6	7	213	12	18	1	6	8	0	7
16:30	1	207	7	9	285	9	8	3	1	15	4	13
16:45	0	258	6	14	262	15	15	0	1	13	10	14
17:00	2	198	4	7	294	15	17	0	6	33	10	20
17:15	5	308	3	8	283	12	17	3	3	54	10	19
17:30	9	176	8	10	263	24	21	0	6	29	2	7
17:45	17	236	3	18	227	45	23	3	4	15	7	5