

**Traffic Volumes and Level of Service Comparison
Columbia Street between Purefoy Road and Mason Farm Road**

Location	Traffic Volume			Level of Service		
	1999	2001	2025	1999	2001	2025
1. Columbia Street south of Mason Farm Road	16,000	18,470	25,500	F	F	F
2. Columbia Street south of Old Pittsboro Road	15,900	18,150	25,300	F	F	F
3. Columbia Street south of Purefoy Road	16,500	18,700	26,300	F	F	F

Level of Service is calculated for a two lane urban street using volume to capacity ratio
 LOS D two-way capacity of 2-Lane urban street is 12,300 vehicles per day
 LOS E two-way capacity of a 2-Lane urban street is 13,700 vehicles per day

Level of Service F on Columbia Street typically occurs during peak hour conditions and the level of service during the off-peak hour conditions varies from B to E. Please see the attached hourly volumes on Columbia Street.

10/29/2001

S. Columbia St.
 South of Mason Farm Rd.
 15-minute increments

Time	Total	SB	NB
0:00	80	51	29
0:15	67	38	29
0:30	70	58	12
0:45	65	52	13
1:00	43	33	10
1:15	39	27	12
1:30	35	28	7
1:45	30	17	13
2:00	19	16	3
2:15	11	10	1
2:30	30	26	4
2:45	15	11	4
3:00	7	5	2
3:15	9	6	3
3:30	17	11	6
3:45	17	12	5
4:00	7	3	4
4:15	4	1	3
4:30	13	5	8
4:45	19	12	7
5:00	15	3	12
5:15	11	6	5
5:30	8	5	3
5:45	12	5	7
6:00	18	5	13
6:15	19	5	14
6:30	44	10	34
6:45	51	9	42
7:00	62	16	46
7:15	142	24	118
7:30	238	45	193
7:45	264	55	209
8:00	276	50	226
8:15	336	68	268
8:30	393	78	315
8:45	467	106	361
9:00	427	85	342
9:15	414	81	333
9:30	316	69	247
9:45	322	80	242
10:00	285	88	197
10:15	279	91	188
10:30	283	101	182
10:45	231	85	146
11:00	194	78	116
11:15	220	86	134
11:30	231	118	113
11:45	202	90	112
12:00	212	101	111
12:15	214	125	89
12:30	240	134	106

Hourly Totals

Time	Total	SB	NB
Midnight	282	199	83
1:00 AM	147	105	42
2:00 AM	75	63	12
3:00 AM	50	34	16
4:00 AM	43	21	22
5:00 AM	46	19	27
6:00 AM	132	29	103
7:00 AM	706	140	566
8:00 AM	1472	302	1170
9:00 AM	1479	315	1164
10:00 AM	1078	365	713
11:00 AM	847	372	475
Noon	932	505	427
1:00 PM	1023	524	499
2:00 PM	1074	543	531
3:00 PM	956	521	435
4:00 PM	1263	802	461
5:00 PM	1638	1178	460
6:00 PM	1854	1352	502
7:00 PM	1101	676	425
8:00 PM	826	500	326
9:00 PM	614	416	198
10:00 PM	494	353	141
11:00 PM	338	223	115

18,470	9,557	8,913
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Time	Total	SB	NB
8:30 - 9:30 a.m.	1701	350	1351

10/29/2001

S. Columbia St.
South of Mason Farm Rd.
15-minute increments

Time	Total	SB	NB						
12:45	266	145	121						
13:00	249	133	116						
13:15	266	145	121						
13:30	257	127	130						
13:45	251	119	132						
14:00	269	136	133						
14:15	260	130	130						
14:30	264	132	132						
14:45	281	145	136						
15:00	236	131	105						
15:15	224	134	90						
15:30	249	120	129						
15:45	247	136	111						
16:00	307	167	140						
16:15	284	179	105						
16:30	344	237	107						
16:45	328	219	109						
17:00	383	284	99						
17:15	361	260	101						
17:30	453	331	122						
17:45	441	303	138						
18:00	487	377	110						
18:15	523	387	136						
18:30	458	339	119						
18:45	386	249	137						
19:00	327	217	110						
19:15	262	170	92						
19:30	285	164	121						
19:45	227	125	102						
20:00	227	130	97						
20:15	218	127	91						
20:30	200	127	73						
20:45	181	116	65						
21:00	165	108	57						
21:15	165	114	51						
21:30	156	110	46						
21:45	128	84	44						
22:00	147	113	34						
22:15	126	82	44						
22:30	111	83	28						
22:45	110	75	35						
23:00	98	69	29						
23:15	88	62	26						
23:30	80	52	28						
23:45	72	40	32						
18,470				9,557	8,913				
				PM Peak	Time	Total	SB	NB	
				Hour	5:45 - 6:45	1909	1406	503	
					p.m.				

Columbia Street Traffic on 10/29/2001
South of Mason Farm Road

