

**Multnomah County Classification**

**Road:** 238th Drive  
**Location:** Between Glisan St and Arata Rd  
**Date:** 5/27/2017  
**Day:** Saturday  
**Counter #** 6  
**Direction:** NB

**238-1A NB**

TIME	TOTAL:	Cycles	Cars/ Trlrs	2 Axle LONG	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
0:00 - 1:00	160	0	0	18	1	141	0	0	0	0	0	0	0	0
1:00 - 2:00	89	1	1	7	2	76	2	0	0	0	0	0	0	0
2:00 - 3:00	69	0	3	7	2	57	0	0	0	0	0	0	0	0
3:00 - 4:00	63	0	0	5	1	56	0	0	1	0	0	0	0	0
4:00 - 5:00	108	0	0	14	3	90	0	0	1	0	0	0	0	0
5:00 - 6:00	184	0	1	10	3	167	1	0	2	0	0	0	0	0
6:00 - 7:00	268	3	1	25	7	224	0	0	8	0	0	0	0	0
7:00 - 8:00	361	0	0	32	7	309	0	0	13	0	0	0	0	0
8:00 - 9:00	479	0	2	49	12	402	1	0	13	0	0	0	0	0
9:00 - 10:00	669	10	5	45	19	579	2	0	9	0	0	0	0	0
10:00 - 11:00	748	3	8	63	18	632	5	0	18	1	0	0	0	0
11:00 - 12:00	722	6	3	65	21	609	5	0	12	0	1	0	0	0
12:00 - 13:00	797	7	2	65	20	684	3	0	16	0	0	0	0	0
13:00 - 14:00	793	4	6	57	18	685	3	0	20	0	0	0	0	0
14:00 - 15:00	818	5	8	68	13	707	4	0	11	1	0	0	0	1
15:00 - 16:00	753	1	5	70	13	648	2	0	12	1	0	0	0	1
16:00 - 17:00	727	7	4	54	17	625	1	2	15	1	0	0	1	0
17:00 - 18:00	724	3	6	69	13	618	2	0	13	0	0	0	0	0
18:00 - 19:00	646	1	6	59	11	560	2	0	7	0	0	0	0	0
19:00 - 20:00	596	1	6	52	5	520	2	1	9	0	0	0	0	0
20:00 - 21:00	570	5	8	49	9	490	0	0	8	1	0	0	0	0
21:00 - 22:00	479	0	3	41	6	424	3	0	2	0	0	0	0	0
22:00 - 23:00	351	0	0	25	7	312	1	0	6	0	0	0	0	0
23:00 - 0:00	210	0	2	18	3	186	0	0	1	0	0	0	0	0
<b>TOTAL:</b>	<b>11384</b>	<b>57</b>	<b>80</b>	<b>967</b>	<b>231</b>	<b>9801</b>	<b>39</b>	<b>3</b>	<b>197</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>
<b>% TOTAL:</b>		<b>0.5%</b>	<b>0.7%</b>	<b>8.5%</b>	<b>2.0%</b>	<b>86.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>1.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>

**Multnomah County Classification**

**Road:** 238th Drive

**238-1A NB**

**Location:** Between Glisan St and Arata Rd

**Date:** 5/30/2017

**Day:** Tuesday

**Counter #** 6

**Direction:** NB

TIME	TOTAL:	Cycles	Cars/ Trlrs	2 Axle LONG	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
0:00 - 1:00	93	0	0	8	1	81	3	0	0	0	0	0	0	0
1:00 - 2:00	51	0	0	4	0	45	2	0	0	0	0	0	0	0
2:00 - 3:00	61	0	0	7	3	50	1	0	0	0	0	0	0	0
3:00 - 4:00	98	0	0	15	1	80	0	0	2	0	0	0	0	0
4:00 - 5:00	304	0	3	38	11	251	1	0	0	0	0	0	0	0
5:00 - 6:00	695	0	1	85	14	585	5	0	5	0	0	0	0	0
6:00 - 7:00	867	2	4	85	36	726	6	0	6	1	0	0	0	1
7:00 - 8:00	927	7	5	71	30	794	5	1	13	1	0	0	0	0
8:00 - 9:00	637	2	3	44	23	551	4	0	10	0	0	0	0	0
9:00 - 10:00	600	3	2	32	33	523	5	0	2	0	0	0	0	0
10:00 - 11:00	643	1	4	53	40	535	0	0	9	1	0	0	0	0
11:00 - 12:00	649	2	1	46	22	555	3	0	18	2	0	0	0	0
12:00 - 13:00	782	3	2	57	43	656	3	0	17	1	0	0	0	0
13:00 - 14:00	745	9	4	56	33	624	5	0	12	0	0	1	0	1
14:00 - 15:00	742	4	4	60	30	623	4	1	11	4	0	1	0	0
15:00 - 16:00	741	4	2	60	29	625	4	0	15	2	0	0	0	0
16:00 - 17:00	709	3	5	54	22	608	4	1	11	0	1	0	0	0
17:00 - 18:00	656	2	1	65	26	551	3	0	8	0	0	0	0	0
18:00 - 19:00	556	2	1	42	15	486	4	0	5	1	0	0	0	0
19:00 - 20:00	455	1	0	43	8	397	2	0	3	1	0	0	0	0
20:00 - 21:00	391	0	0	33	6	343	2	1	6	0	0	0	0	0
21:00 - 22:00	364	0	0	22	8	332	0	0	2	0	0	0	0	0
22:00 - 23:00	210	0	0	26	3	176	2	0	3	0	0	0	0	0
23:00 - 0:00	134	0	0	15	5	112	1	0	1	0	0	0	0	0
<b>TOTAL:</b>	<b>12110</b>	<b>45</b>	<b>42</b>	<b>1021</b>	<b>442</b>	<b>10309</b>	<b>69</b>	<b>4</b>	<b>159</b>	<b>14</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>2</b>
<b>% TOTAL:</b>		<b>0.4%</b>	<b>0.3%</b>	<b>8.4%</b>	<b>3.6%</b>	<b>85.1%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>1.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>

**Multnomah County Classification**

**Road:** 238th Drive  
**Location:** Between Glisan St and Arata Rd  
**Date:** 5/27/2017  
**Day:** Saturday  
**Counter #** 3  
**Direction:** SB

**238-1B SB**

TIME	TOTAL:	Cycles	Cars/ Trlrs	2 Axle LONG	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
0:00 - 1:00	219	0	181	29	0	8	0	0	1	0	0	0	0	0
1:00 - 2:00	152	3	111	27	0	10	1	0	0	0	0	0	0	0
2:00 - 3:00	111	2	78	23	1	6	0	0	1	0	0	0	0	0
3:00 - 4:00	79	0	63	11	2	3	0	0	0	0	0	0	0	0
4:00 - 5:00	73	0	54	11	1	6	1	0	0	0	0	0	0	0
5:00 - 6:00	159	0	104	36	1	14	2	1	1	0	0	0	0	0
6:00 - 7:00	314	3	217	71	0	18	0	0	5	0	0	0	0	0
7:00 - 8:00	544	12	354	119	6	44	0	0	9	0	0	0	0	0
8:00 - 9:00	732	7	524	133	2	50	0	1	13	1	0	1	0	0
9:00 - 10:00	820	18	567	151	2	61	2	0	14	0	0	5	0	0
10:00 - 11:00	839	19	586	160	1	52	1	1	17	1	1	0	0	0
11:00 - 12:00	893	21	625	154	1	72	1	0	17	0	1	1	0	0
12:00 - 13:00	883	10	632	152	2	71	1	0	15	0	0	0	0	0
13:00 - 14:00	800	14	595	142	0	36	0	0	13	0	0	0	0	0
14:00 - 15:00	761	11	543	137	0	54	4	0	11	1	0	0	0	0
15:00 - 16:00	835	12	607	152	2	46	2	0	12	1	0	1	0	0
16:00 - 17:00	701	6	519	114	1	48	0	1	10	0	0	2	0	0
17:00 - 18:00	749	14	532	141	1	47	1	0	12	1	0	0	0	0
18:00 - 19:00	666	8	503	118	1	29	1	0	5	0	0	0	0	1
19:00 - 20:00	557	5	410	95	0	38	2	0	7	0	0	0	0	0
20:00 - 21:00	522	7	393	92	0	23	1	0	6	0	0	0	0	0
21:00 - 22:00	460	9	344	77	0	26	0	0	4	0	0	0	0	0
22:00 - 23:00	392	3	294	70	0	21	0	0	4	0	0	0	0	0
23:00 - 0:00	279	3	200	55	0	19	0	0	2	0	0	0	0	0
<b>TOTAL:</b>	<b>12540</b>	<b>187</b>	<b>9036</b>	<b>2270</b>	<b>24</b>	<b>802</b>	<b>20</b>	<b>4</b>	<b>179</b>	<b>5</b>	<b>2</b>	<b>10</b>	<b>0</b>	<b>1</b>
<b>% TOTAL:</b>		<b>1.5%</b>	<b>72.1%</b>	<b>18.1%</b>	<b>0.2%</b>	<b>6.4%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>1.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>

**Multnomah County Classification**

**Road:** 238th Drive  
**Location:** Between Glisan St and Arata Rd  
**Date:** 5/30/2017  
**Day:** Tuesday  
**Counter #** 3  
**Direction:** SB

**238-1B SB**

TIME	TOTAL:	Cycles	Cars/ Trlrs	2 Axle LONG	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>6 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi
0:00 - 1:00	101	4	77	18	1	1	0	0	0	0	0	0	0	0
1:00 - 2:00	71	1	53	12	0	5	0	0	0	0	0	0	0	0
2:00 - 3:00	52	0	39	6	3	4	0	0	0	0	0	0	0	0
3:00 - 4:00	56	0	35	9	3	9	0	0	0	0	0	0	0	0
4:00 - 5:00	71	0	45	13	1	8	2	0	2	0	0	0	0	0
5:00 - 6:00	191	1	115	44	2	24	2	0	2	1	0	0	0	0
6:00 - 7:00	452	5	290	98	1	45	0	0	8	2	1	0	0	2
7:00 - 8:00	623	11	432	97	14	53	4	2	6	4	0	0	0	0
8:00 - 9:00	587	11	393	114	8	47	2	0	9	1	1	0	0	1
9:00 - 10:00	593	7	389	122	5	48	2	1	15	1	1	1	0	1
10:00 - 11:00	635	4	409	143	5	59	1	1	8	3	1	0	0	1
11:00 - 12:00	648	12	439	111	9	55	3	0	18	1	0	0	0	0
12:00 - 13:00	679	12	445	137	2	67	3	0	11	2	0	0	0	0
13:00 - 14:00	659	6	441	128	1	66	2	1	12	1	1	0	0	0
14:00 - 15:00	804	4	515	168	12	86	1	3	13	2	0	0	0	0
15:00 - 16:00	875	15	590	153	4	88	3	2	20	0	0	0	0	0
16:00 - 17:00	922	16	637	184	3	62	1	2	16	1	0	0	0	0
17:00 - 18:00	949	12	707	145	1	69	1	0	14	0	0	0	0	0
18:00 - 19:00	745	5	552	119	1	49	2	1	15	0	0	0	0	1
19:00 - 20:00	574	6	410	113	2	35	0	0	8	0	0	0	0	0
20:00 - 21:00	395	0	295	72	0	23	1	0	2	1	0	1	0	0
21:00 - 22:00	377	7	275	70	0	21	1	0	3	0	0	0	0	0
22:00 - 23:00	279	6	204	42	1	21	2	0	3	0	0	0	0	0
23:00 - 0:00	211	3	166	33	1	8	0	0	0	0	0	0	0	0
<b>TOTAL:</b>	<b>11549</b>	<b>148</b>	<b>7953</b>	<b>2151</b>	<b>80</b>	<b>953</b>	<b>33</b>	<b>13</b>	<b>185</b>	<b>20</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>6</b>
<b>% TOTAL:</b>		<b>1.3%</b>	<b>68.9%</b>	<b>18.6%</b>	<b>0.7%</b>	<b>8.3%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>1.6%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>

Multnomah County

Roadway: 238th Drive  
238-1B SB and 238-1A NB

Date: 5/27/2017

City:

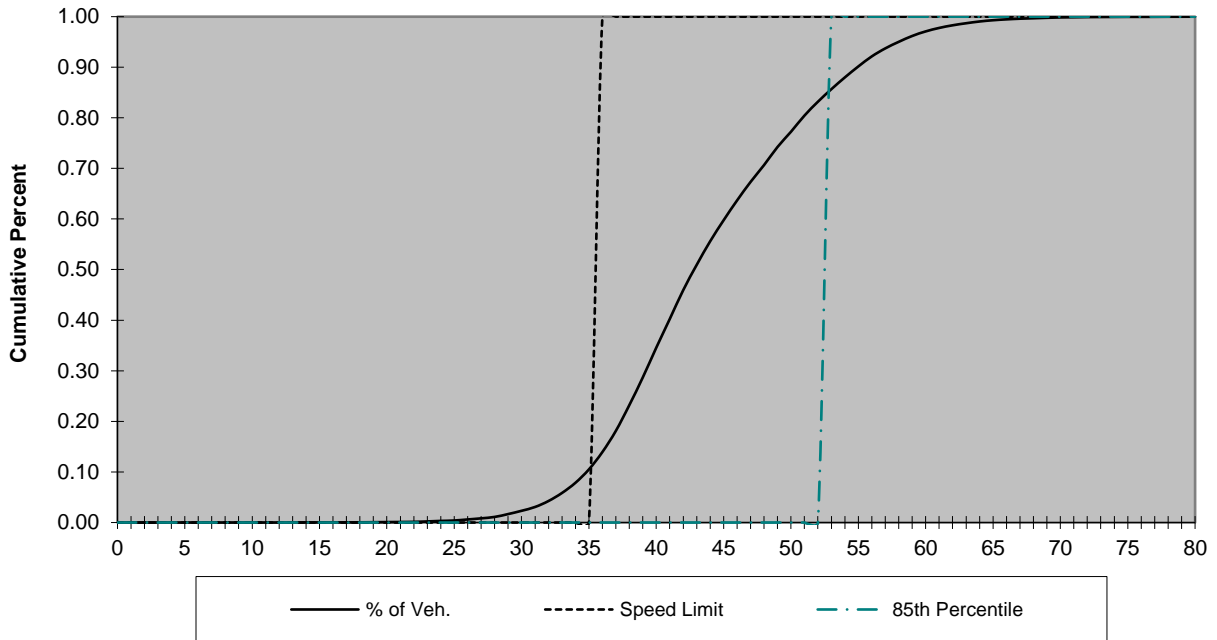
Time: N/A

County: Multnomah

Location: Between Glisan and Arata

Weather:

Direction of Travel: Both



	MPH SB	Combined	NB
# of Vehicles	12548	23987	11444
85th % Speed	45.00	53.00	57.00
Pace Limits	36 - 45	37 - 46	46 - 55
Mean Speed	40.55	44.44	48.71
Median Speed	40	43	50
Std. Dev.	4.47	7.93	8.70
Max Speed	78	90	90
Posted Speed	35	35	35
% Exceeding Posted	89.74%	89.49%	89.23%
% In Pace	78.32%	49.74%	51.58%

Multnomah County

Roadway: 238th Drive  
238-1B SB and 238-1A NB

Date: 5/30/2017

City:

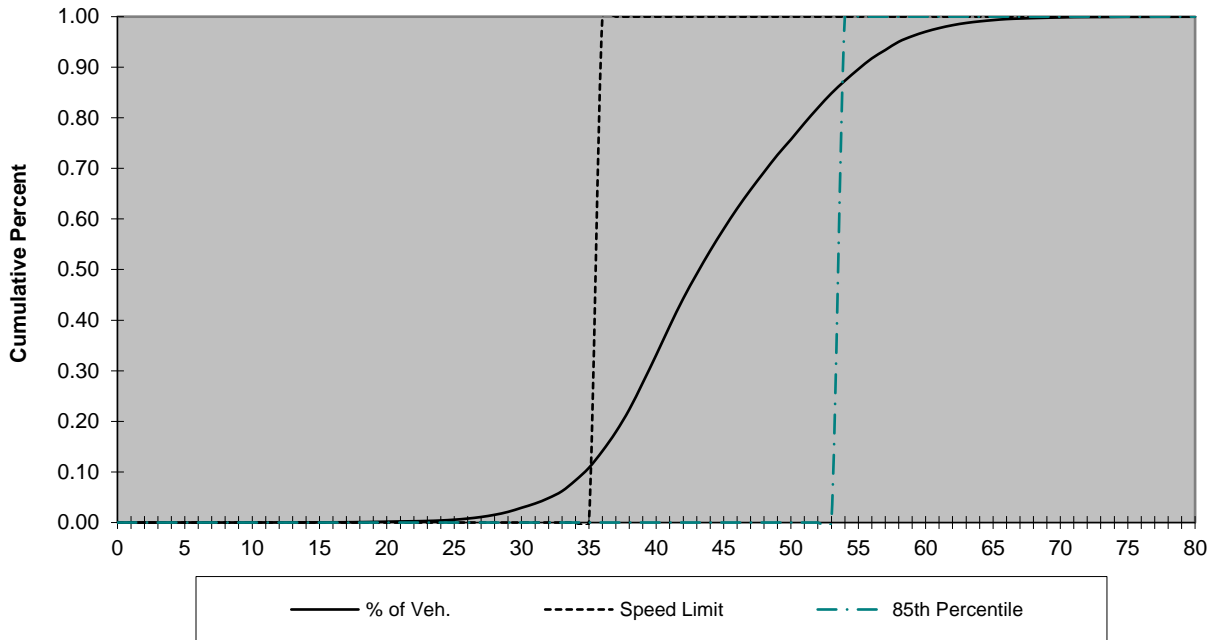
Time: N/A

County: Multnomah

Location: Between Glisan and Arata

Weather:

Direction of Travel: Both



	MPH SB	Combined	NB
# of Vehicles	11565	23749	12185
85th % Speed	45.00	54.00	57.00
Pace Limits	36 - 45	37 - 46	47 - 56
Mean Speed	40.49	44.64	48.58
Median Speed	41	44	50
Std. Dev.	4.68	8.09	8.66
Max Speed	61	87	87
Posted Speed	35	35	35
% Exceeding Posted	88.88%	89.18%	89.47%
% In Pace	76.58%	47.93%	50.30%



# AADT COUNT

Road Counted: **238th Blvd**

Road Code **238-1AB**

Count Date: 5/27/2017

Reference: SN:6-150525 Glisan  
Arata

Day of Week: Saturday

Direction: Type: Machine #:  
SB Trax Rd + Jamar 3  
NB Trax Rd + Jamar 6

Beginning of Full Count: 5/26/2017  
12:00 AM

START PERIOD	SOUTHBOUND					NORTHBOUND					Hourly Total	BOTH Hourly Total
	00	15	30	45	Hourly Total	00	15	30	45	Hourly Total		
12:00 AM	63	55	55	47	220	47	50	33	37	167	387	
1:00 AM	47	46	29	35	157	35	19	19	21	94	251	
2:00 AM	25	34	28	26	113	15	14	22	18	69	182	
3:00 AM	23	17	22	18	80	15	16	21	14	66	146	
4:00 AM	17	18	12	26	73	18	23	41	33	115	188	
5:00 AM	26	29	51	57	163	50	41	50	53	194	357	
6:00 AM	72	75	76	100	323	65	60	80	66	271	594	
7:00 AM	116	119	155	166	556	86	91	101	104	382	938	
8:00 AM	175	166	197	207	745	127	122	128	128	505	1250	
9:00 AM	178	200	221	243	842	151	209	161	178	699	1541	
10:00 AM	254	174	215	232	875	172	210	196	200	778	1653	
11:00 AM	240	202	263	210	915	202	189	185	179	755	1670	
12:00 PM	194	226	251	232	903	242	211	182	204	839	1742	
1:00 PM	241	193	182	209	825	218	208	215	191	832	1657	
2:00 PM	231	166	198	195	790	222	213	210	206	851	1641	
3:00 PM	223	223	214	201	861	186	209	203	191	789	1650	
4:00 PM	179	177	191	178	725	191	192	184	194	761	1486	
5:00 PM	212	189	211	158	770	202	192	186	180	760	1530	
6:00 PM	191	178	159	154	682	171	181	153	162	667	1349	
7:00 PM	142	140	152	134	568	150	168	150	154	622	1190	
8:00 PM	136	133	137	130	536	139	174	148	132	593	1129	
9:00 PM	104	135	117	114	470	160	129	113	97	499	969	
10:00 PM	109	96	102	89	396	103	107	81	71	362	758	
11:00 PM	68	73	66	78	285	60	52	53	52	217	502	
<b>DAILY TRAFFIC VOLUMES</b>					<b>12873</b>						<b>11887</b>	<b>24760</b>
ANNUAL AVERAGE FACTOR					1.04						1.04	1.04
<b>ANNUAL AVERAGE DAILY TRAFFIC</b>					<b>13381</b>						<b>12357</b>	<b>25738</b>

\*\*\*MORNING PEAKS\*\*\*

\*\*\*EVENING PEAKS\*\*\*

	PERIOD	SB	NB	BOTH
START	11:30 AM	263		
15 MINUTE PEAK	10:15 AM		210	
	11:30 AM			448
START	10:45 AM	937		
PEAK	10:15 AM		808	
HOUR	10:45 AM			1713
PHF		0.891	0.962	0.956

	PERIOD	SB	NB	BOTH
START	12:30 PM	251		
15 MINUTE PEAK	12:00 PM		242	
	1:00 PM			459
START	12:15 PM	950		
PEAK	2:00 PM		851	
HOUR	12:15 PM			1765
PHF		0.946	N/A	0.961

PERIOD	SB	NB	BOTH
Morning Peak 2 Hr 7:00 - 9:00 AM	1301	887	2188
Midday Peak 2 Hr 11:00 AM - 1:00 PM	1818	1594	3412

PERIOD	SB	NB	BOTH
Afternoon Peak 2:00 - 3:00 PM	790	851	1641
Evening Peak 2 Hr 4:00 - 6:00 PM	1495	1521	3016



# AADT COUNT

Road Counted: **238th Blvd**

Road Code **238-1AB**

Count Date: 5/30/2017

Reference: SN:6 3-150525 Glisan  
Arata

Day of Week: Tuesday

Direction: Type: Machine #:  
SB Trax Rd + Jamar 3  
NB Trax Rd + Jamar 6

Beginning of Full Count: 5/26/2017  
12:00 AM

START PERIOD	SOUTHBOUND					NORTHBOUND					Hourly Total	BOTH Hourly Total
	00	15	30	45	Hourly Total	00	15	30	45	Hourly Total		
12:00 AM	32	25	21	24	102	21	24	12	16	73	175	
1:00 AM	15	24	15	18	72	12	15	18	13	58	130	
2:00 AM	16	14	11	12	53	19	14	18	24	75	128	
3:00 AM	9	14	15	20	58	32	26	44	59	161	219	
4:00 AM	9	15	18	30	72	97	113	130	189	529	601	
5:00 AM	30	34	54	74	192	201	206	223	230	860	1052	
6:00 AM	111	102	110	141	464	238	210	254	269	971	1435	
7:00 AM	144	146	201	156	647	231	214	159	194	798	1445	
8:00 AM	147	141	166	158	612	149	158	169	165	641	1253	
9:00 AM	136	143	156	176	611	146	155	162	190	653	1264	
10:00 AM	153	157	171	176	657	132	190	137	195	654	1311	
11:00 AM	137	177	173	185	672	157	190	217	202	766	1438	
12:00 PM	189	175	162	172	698	217	202	212	179	810	1508	
1:00 PM	168	155	186	176	685	213	182	180	204	779	1464	
2:00 PM	182	211	213	215	821	204	189	207	181	781	1602	
3:00 PM	216	220	214	254	904	171	218	176	211	776	1680	
4:00 PM	241	229	244	235	949	177	192	181	197	747	1696	
5:00 PM	246	243	234	260	983	167	159	183	165	674	1657	
6:00 PM	228	209	190	148	775	157	163	149	113	582	1357	
7:00 PM	183	144	145	113	585	125	92	141	114	472	1057	
8:00 PM	114	96	84	109	403	106	108	104	85	403	806	
9:00 PM	91	103	97	89	380	110	99	89	76	374	754	
10:00 PM	83	66	55	79	283	77	56	44	41	218	501	
11:00 PM	65	62	55	34	216	43	33	37	26	139	355	
<b>DAILY TRAFFIC VOLUMES</b>					<b>11894</b>						<b>12994</b>	<b>24888</b>
ANNUAL AVERAGE FACTOR					0.98						0.98	0.98
<b>ANNUAL AVERAGE DAILY TRAFFIC</b>					<b>11657</b>						<b>12735</b>	<b>24393</b>

\*\*\*MORNING PEAKS\*\*\*

\*\*\*EVENING PEAKS\*\*\*

	PERIOD	SB	NB	BOTH
START	7:30 AM	201		
15 MINUTE PEAK	6:45 AM		269	410
START	11:00 AM	672		
PEAK	6:00 AM		971	
HOUR	6:30 AM			1509
PHF		N/A	0.902	0.920

	PERIOD	SB	NB	BOTH
START	5:45 PM	260		
15 MINUTE PEAK	3:15 PM		218	465
START	5:00 PM	983		
PEAK	12:00 PM		810	
HOUR	3:45 PM			1729
PHF		0.945	N/A	0.930

PERIOD	SB	NB	BOTH
Morning Peak 2 Hr 7:00 - 9:00 AM	1259	1439	2698
Midday Peak 2 Hr 11:00 AM - 1:00 PM	1370	1576	2946

PERIOD	SB	NB	BOTH
Afternoon Peak 2:00 - 3:00 PM	821	781	1602
Evening Peak 2 Hr 4:00 - 6:00 PM	1932	1421	3353