

Roadway Survey Field Sheet

TS Project # _____ Map _____ Grid _____ Start Time _____ # Of Days _____

Location: MILL PLAIN BL + 97/98 AVS

Location ID: _____ City: VANCOUVER

Type Of Survey:
 Volume
 Speed
 Classification

Start Date: 9/8/03
 S M T W T F S
 End Date: 9/10/03
 S M T W T F S

Counters: 8
 Tubes: 8

SITE EVALUATION			POSTED SPEED		DWELL TIME							
Vehicles Crossing Tube Perpendicular	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	???	<input type="checkbox"/> None	<input type="checkbox"/> 40 Mph	LOWEST SPEED		HIGHEST SPEED			(TAD, TBD)	
Do You Anticipate Queuing Across Tube	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 25 Mph	<input type="checkbox"/> 45 Mph	MPH	10-20	15-30	25-40	35-45	> 45	A
Speed Greater Than 20 Miles / Hour	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 30 Mph	<input type="checkbox"/> 50 Mph	Standing Queue	200	130	100	80	40	B
Tube Crosses More Than 2 Lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 35 Mph	<input type="checkbox"/> 55 Mph	5 - 10 MPH	130	90	70	60	40	B
SPEED: High _____ Mph Low _____ Mph			<input type="checkbox"/> Other: _____			> 10 MPH	100	80	60	40	40	M
						Use 2 Counters if Traffic Conditions are different in each direction.						
						DWELL (TAD, TBD)						
						D						

AXLE STRIKE COUNT	SYSTEM DELAY LOGIC	SPEED Low Vol	VEHICLE SPEED / CLASSIFICATION	
G M D A B	D	G M B	M B	G L
<input type="checkbox"/> Tube equal length <input type="checkbox"/> Use proper spacing <input type="checkbox"/> One Lane only except Low Volume Speed Surveys ADT 2,000				

COUNTRY/SET/DOWN

Type: AMAX

No. 78/XI/15/33

Box 22/61/12/66

Tube Length 40

Hammer Test

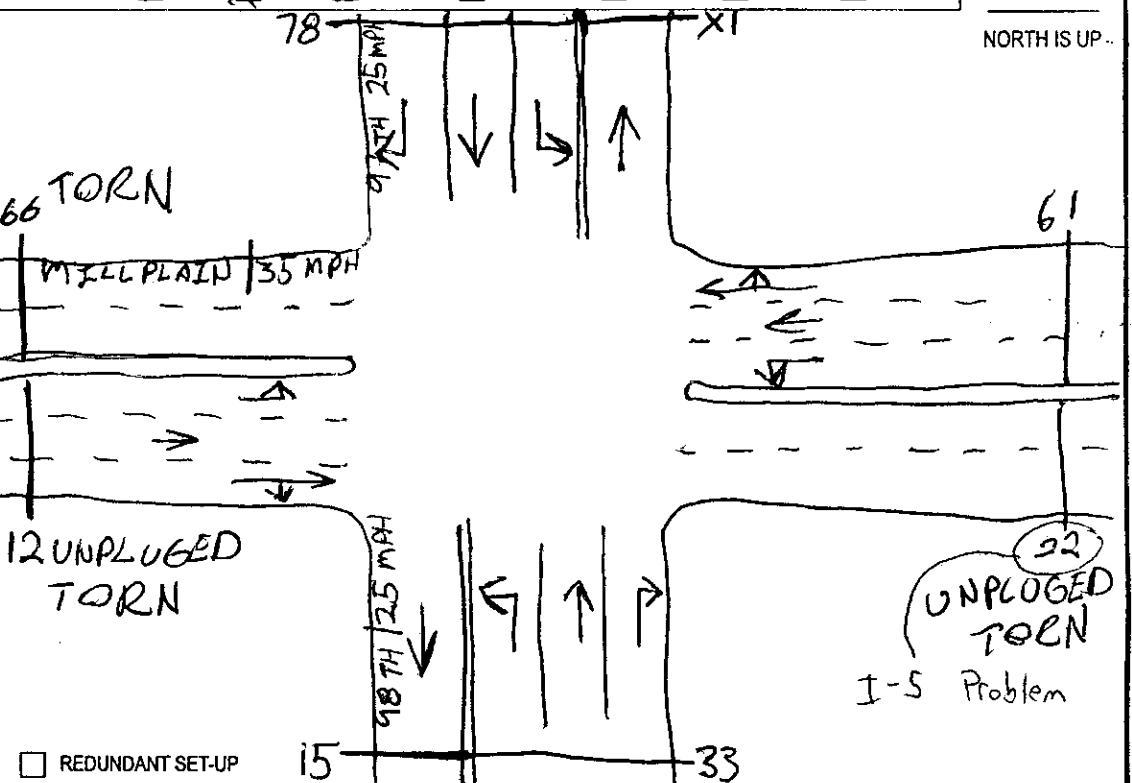
CHECK	DATE	TIME
P F		
P F		
P F		
P F		
P F		

DIRECTION: East Bound West Bound North Bound South Bound Approach

COMBINED: East / West North / South DRWY: Combined In-Bound Out-Bound

ROAD: Dry Wet Asphalt Concrete Broken Rutted Curved

NORTH
 NORTH IS UP.



PICK-UP

Hammer Test

Date: 9/10/03 Time: 1:15

FILE NAMES

1097TN78

1097TNXI

1098TS15

1098TN33

10MPBE22

10MPBW61

10MPBE12

10MPBW66

Remarks: _____

WEATHER: Sunny Overcast Rain Snow

Surveyed By: M.P.

TRAFFIC SMITHY, Inc.
 1225 NW Murray Blvd. Suite 111
 Portland, OR 97229
 Phone: 503/641-6333 - Fax: 503/643-8866

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: MILL PLAIN BOULEVARD
 Location: EAST OF 97TH / 98TH AVENUES

Date: 09/09/03
 Day of Week: Tuesday

EB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	18	9	11	9	7	10	7	9	12	5	11	4	112
01:00	10	8	6	6	6	5	6	7	13	6	5	5	83
02:00	3	7	5	2	4	2	4	7	5	3	2	4	48
03:00	7	4	5	1	2	3	8	1	5	6	1	2	45
04:00	4	7	4	5	3	8	7	7	12	12	5	7	81
05:00	12	15	13	12	12	7	19	19	27	21	19	17	193
06:00	20	25	22	28	18	40	34	40	46	35	52	37	397
07:00	49	55	56	53	47	60	62	63	52	53	48	43	641
08:00	46	61	64	49	58	62	48	64	75	54	69	60	710
09:00	71	65	67	74	75	83	73	74	58	66	71	68	845
10:00	72	65	87	66	88	73	82	67	93	82	81	94	950
11:00	61	88	71	95	91	91	93	84	78	85	96	81	1014
12:00	87	89	98	91	81	94	90	81	106	83	77	97	1074
13:00	95	73	83	78	76	93	82	78	99	84	70	76	987
14:00	101	97	108	83	83	76	97	90	96	101	78	91	1101
15:00	95	89	104	116	96	105	94	88	116	90	104	71	1168
16:00	78	99	106	119	96	104	100	95	106	100	100	80	1183
17:00	101	109	106	115	92	77	93	118	78	77	78	70	1114
18:00	70	77	80	67	67	67	68	81	69	71	54	76	847
19:00	67	79	54	56	56	48	62	57	57	54	54	45	689
20:00	45	45	50	62	49	50	52	52	45	38	42	37	567
21:00	44	45	41	37	25	31	36	32	34	27	36	26	414
22:00	30	23	20	23	19	23	15	28	18	20	19	17	255
23:00	10	28	15	22	11	11	19	22	14	18	12	23	205

Daily Total: 14723

AM Peak Hour: 1027 (10:55 - 11:55)

6.97% Of Daily Total

PM Peak Hour: 1216 (16:10 - 17:10)

8.25% Of Daily Total

4th Highest Hour: 1101 (14:00 - 15:00)

7.47% Of Daily Total

8th Highest Hour: 950 (10:00 - 11:00)

6.45% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: MILL PLAIN BOULEVARD
 Location: EAST OF 97TH/98TH AVENUES

Date: 09/09/03
 Day of Week: Tuesday

WB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	12	9	11	7	11	9	3	13	6	6	5	8	100
01:00	5	6	1	9	9	6	2	3	11	7	2	7	68
02:00	4	5	2	5	5	5	7	3	4	6	7	3	56
03:00	3	4	4	3	2	0	3	5	2	6	7	8	47
04:00	2	5	3	2	5	8	4	1	3	8	3	4	48
05:00	12	10	6	10	11	14	19	14	13	17	27	23	176
06:00	29	28	28	32	53	29	49	52	40	68	63	72	543
07:00	50	56	53	57	55	60	59	64	82	79	75	77	767
08:00	63	70	64	78	92	84	75	75	90	108	94	70	963
09:00	72	82	51	63	67	73	71	68	60	71	79	70	827
10:00	58	70	78	76	57	66	72	67	48	82	91	69	834
11:00	77	85	66	81	72	75	71	76	70	81	81	68	903
12:00	90	99	68	66	92	71	70	93	92	84	90	98	1013
13:00	69	85	89	87	99	77	102	98	72	95	96	82	1051
14:00	66	84	86	83	68	96	87	79	75	100	86	86	996
15:00	85	80	82	78	89	99	72	93	54	101	92	99	1024
16:00	74	94	84	89	67	85	75	93	77	91	83	83	995
17:00	78	75	78	86	75	70	83	77	62	80	78	93	935
18:00	78	79	72	85	72	79	66	83	51	69	50	68	852
19:00	50	65	52	73	44	57	42	41	47	51	29	58	609
20:00	49	51	34	41	49	42	41	35	31	38	34	29	474
21:00	48	35	44	34	25	44	31	26	32	26	26	24	395
22:00	27	23	29	36	25	23	23	22	21	18	14	17	278
23:00	20	19	19	13	22	13	6	8	19	15	18	9	181

Daily Total: 14135

AM Peak Hour: 984 (08:10 - 09:10)

6.96% Of Daily Total

PM Peak Hour: 1070 (12:40 - 13:40)

7.56% Of Daily Total

4th Highest Hour: 996 (14:00 - 15:00)

7.04% Of Daily Total

8th Highest Hour: 903 (11:00 - 12:00)

6.38% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: MILL PLAIN BOULEVARD
 Location: WEST OF 97TH/98TH AVENUE

Date: 09/09/03
 Day of Week: Tuesday

WB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	6	8	9	7	7	11	5	2	8	6	5	6	80
01:00	4	5	2	5	9	6	0	4	9	3	2	7	56
02:00	5	4	2	4	4	4	6	5	3	2	6	3	48
03:00	2	4	4	5	4	0	3	3	5	5	6	8	49
04:00	5	4	3	3	3	6	5	3	4	8	6	5	55
05:00	6	13	11	6	15	12	19	22	17	21	25	19	186
06:00	30	36	36	40	48	38	47	52	52	66	76	58	579
07:00	78	42	74	51	50	71	62	82	80	88	97	102	877
08:00	70	84	80	83	80	91	76	90	86	101	104	94	1039
09:00	68	83	65	68	67	81	58	79	68	71	88	76	872
10:00	61	58	80	71	72	81	67	67	91	77	86	78	889
11:00	84	87	77	66	96	63	69	87	67	83	76	65	920
12:00	80	88	80	76	72	73	77	81	94	88	90	83	982
13:00	74	83	88	85	96	88	95	94	94	82	96	85	1060
14:00	69	81	64	108	84	77	90	77	84	98	93	88	1013
15:00	82	76	78	82	89	80	83	86	67	79	84	77	963
16:00	81	77	81	80	75	54	99	80	73	83	80	66	929
17:00	80	76	69	87	73	64	81	54	64	87	70	76	881
18:00	73	73	73	84	74	66	58	68	55	66	46	65	801
19:00	50	59	46	53	47	46	30	45	37	53	27	43	536
20:00	42	49	39	29	45	39	38	22	31	32	26	35	427
21:00	41	34	38	30	27	35	24	26	19	27	20	22	343
22:00	19	24	21	24	28	22	21	14	9	11	3	15	211
23:00	18	10	16	14	15	7	3	4	10	14	8	9	128

Daily Total: 13924

AM Peak Hour: 1047 (07:55 - 08:55)

7.51% Of Daily Total

PM Peak Hour: 1060 (13:00 - 14:00)

7.61% Of Daily Total

4th Highest Hour: 982 (12:00 - 13:00)

7.05% Of Daily Total

8th Highest Hour: 889 (10:00 - 11:00)

6.38% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: MILL PLAIN BOULEVARD
 Location: WEST OF 97TH / 98TH AVENUES

Date: 09/09/03
 Day of Week: Tuesday

EB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	18	12	11	4	10	12	7	8	7	5	8	9	111
01:00	7	6	6	4	7	5	7	5	10	5	5	4	71
02:00	3	6	5	1	3	3	4	7	6	2	4	2	46
03:00	8	5	3	1	1	10	3	1	6	5	1	2	46
04:00	8	1	4	3	2	10	6	4	7	5	5	8	63
05:00	10	9	6	12	11	5	12	13	15	17	11	13	134
06:00	15	23	16	13	19	32	30	23	31	26	42	33	303
07:00	31	43	50	44	31	49	40	35	44	50	37	33	487
08:00	52	43	52	54	43	52	43	57	67	55	60	52	630
09:00	55	54	68	60	69	62	78	71	53	68	72	74	784
10:00	67	61	74	56	76	62	83	64	87	82	79	94	885
11:00	61	84	78	99	87	84	87	88	86	87	107	83	1031
12:00	82	92	101	78	94	89	75	74	99	85	71	96	1036
13:00	87	71	71	73	68	88	75	80	99	89	76	72	949
14:00	102	89	105	79	90	67	90	88	103	95	71	103	1082
15:00	90	94	107	108	86	100	97	93	114	97	108	74	1168
16:00	72	111	104	106	100	92	108	105	123	103	104	80	1208
17:00	105	113	115	129	87	96	85	107	76	84	55	77	1129
18:00	72	71	85	69	56	61	73	62	63	69	54	74	809
19:00	81	66	53	53	62	54	61	61	58	49	56	41	695
20:00	42	46	53	55	49	54	49	44	43	40	35	41	551
21:00	45	51	31	36	27	36	31	26	27	19	31	26	386
22:00	28	25	17	23	15	19	12	26	20	19	19	16	239
23:00	13	29	16	21	12	16	24	21	19	13	9	19	212

Daily Total: 14055

AM Peak Hour: 1042 (10:55 - 11:55)

7.41% Of Daily Total

PM Peak Hour: 1277 (16:20 - 17:20)

9.08% Of Daily Total

4th Highest Hour: 1082 (14:00 - 15:00)

7.69% Of Daily Total

8th Highest Hour: 885 (10:00 - 11:00)

6.29% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: 97TH AVENUE
 Location: NORTH OF MILL PLAIN BOULEVARD

Date: 09/09/03
 Day of Week: Tuesday

SB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	1	0	1	1	1	1	1	0	3	2	0	0	11
01:00	1	1	0	0	1	0	0	1	1	2	0	0	7
02:00	2	1	0	1	1	1	0	0	0	0	0	0	6
03:00	1	0	0	2	2	1	2	0	1	1	0	1	11
04:00	0	2	2	2	1	1	5	1	3	5	1	0	23
05:00	5	2	7	2	3	2	5	13	7	9	2	3	60
06:00	11	14	15	14	14	10	23	16	22	14	18	18	189
07:00	19	14	18	16	27	21	32	21	24	21	30	17	260
08:00	19	21	25	8	23	17	14	21	21	21	19	22	231
09:00	25	12	9	20	11	5	18	9	12	7	9	7	144
10:00	9	9	8	16	6	21	13	2	13	18	15	5	135
11:00	5	12	10	7	17	8	11	17	7	15	12	16	137
12:00	10	10	8	9	9	10	10	10	13	12	14	9	124
13:00	8	10	11	11	14	12	8	8	8	11	11	10	122
14:00	13	11	9	11	11	16	10	9	11	13	13	7	134
15:00	10	18	15	15	14	17	7	15	11	11	8	11	152
16:00	16	22	10	14	12	17	20	18	21	13	17	21	201
17:00	16	24	15	18	15	13	19	14	15	28	13	12	202
18:00	11	12	16	12	17	10	13	14	12	12	14	17	160
19:00	19	6	8	8	8	8	11	10	9	12	9	9	117
20:00	6	7	6	4	6	6	15	10	8	9	4	5	86
21:00	6	6	12	1	5	9	9	8	5	6	8	8	83
22:00	1	3	5	3	5	5	3	5	3	4	3	3	43
23:00	3	1	3	1	1	1	5	1	3	1	0	1	21

Daily Total: 2659

AM Peak Hour: 274 (07:15 - 08:15)

10.3% Of Daily Total

PM Peak Hour: 215 (16:25 - 17:25)

8.08% Of Daily Total

4th Highest Hour: 201 (16:00 - 17:00)

7.55% Of Daily Total

8th Highest Hour: 144 (09:00 - 10:00)

5.41% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: 97TH AVENUE
 Location: NORTH OF MILL PLAIN

Date: 09/09/03
 Day of Week: Tuesday

NB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	5	3	1	2	2	2	1	2	3	0	2	2	25
01:00	3	1	1	2	4	3	1	1	1	1	3	2	23
02:00	0	1	2	0	0	2	1	1	1	2	5	1	16
03:00	0	0	1	1	0	0	0	0	2	0	1	1	6
04:00	0	2	0	0	2	0	0	0	0	0	0	1	5
05:00	2	0	0	2	1	1	1	0	3	0	0	0	10
06:00	0	2	3	2	2	2	3	4	7	7	3	4	39
07:00	1	5	7	10	5	7	4	8	4	6	11	11	79
08:00	9	8	8	9	8	11	8	8	15	9	8	5	106
09:00	10	8	7	9	7	7	5	6	9	5	8	8	89
10:00	8	7	9	8	6	4	9	10	8	8	7	9	93
11:00	9	8	11	10	8	8	9	10	14	17	24	11	139
12:00	12	14	15	19	17	12	12	15	15	10	17	21	179
13:00	8	12	13	12	9	11	11	12	13	14	13	10	138
14:00	15	6	11	11	7	14	19	13	16	18	19	12	161
15:00	15	26	11	27	16	11	13	16	20	29	27	22	233
16:00	15	25	21	24	20	24	30	28	28	19	27	29	290
17:00	30	28	30	30	27	27	22	21	31	29	31	22	328
18:00	26	22	19	29	13	20	20	24	15	15	13	12	228
19:00	19	13	18	8	15	14	11	16	18	14	12	20	178
20:00	12	8	17	14	9	9	9	20	10	10	13	9	140
21:00	13	14	12	6	11	20	10	17	5	6	4	3	121
22:00	5	6	12	8	7	8	5	5	5	7	3	1	72
23:00	4	1	4	6	1	4	2	4	5	3	5	3	42

Daily Total: 2740

AM Peak Hour: 139 (11:00 - 12:00)

5.07% Of Daily Total

PM Peak Hour: 335 (16:55 - 17:55)

12.2% Of Daily Total

4th Highest Hour: 228 (18:00 - 19:00)

8.32% Of Daily Total

8th Highest Hour: 140 (20:00 - 21:00)

5.10% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: 98TH AVENUE
 Location: SOUTH OF MILL PLAIN

Date: 09/09/03
 Day of Week: Tuesday

NB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	1	0	2	0	2	0	1	4	1	0	0	0	11
01:00	1	0	4	0	0	2	1	2	0	0	1	3	14
02:00	0	0	0	0	0	3	2	1	1	0	0	0	7
03:00	0	2	0	0	0	0	0	0	0	0	1	0	3
04:00	0	2	0	1	0	1	1	2	2	1	2	1	13
05:00	1	2	2	1	1	3	6	8	2	4	1	5	36
06:00	0	4	5	8	7	3	9	9	15	11	13	12	96
07:00	10	8	11	8	14	15	17	15	21	22	22	39	202
08:00	21	21	19	21	5	23	9	19	12	17	17	7	191
09:00	15	19	19	13	15	6	9	10	9	14	9	15	153
10:00	14	10	12	11	13	5	14	16	19	11	10	9	144
11:00	11	12	14	9	14	10	15	8	11	13	15	6	138
12:00	6	11	15	17	17	13	13	16	22	14	14	14	172
13:00	8	10	16	17	7	12	11	18	17	15	15	19	165
14:00	16	17	14	19	19	16	17	9	19	17	21	10	194
15:00	19	20	12	15	14	7	12	18	20	24	20	19	200
16:00	17	23	17	17	18	19	16	19	14	10	15	13	198
17:00	18	20	19	25	19	23	11	18	17	27	19	21	237
18:00	20	14	13	14	15	7	13	16	10	17	12	11	162
19:00	15	8	12	11	7	7	11	11	15	8	8	11	124
20:00	6	6	5	11	7	5	10	4	10	11	10	5	90
21:00	6	8	7	3	7	6	1	8	4	4	3	3	60
22:00	0	5	5	3	3	4	4	2	6	3	1	1	37
23:00	3	2	3	2	3	1	1	1	2	4	3	1	26

Daily Total: 2673

AM Peak Hour: 247 (07:20 - 08:20)

9.24% Of Daily Total

PM Peak Hour: 239 (17:05 - 18:05)

8.94% Of Daily Total

4th Highest Hour: 198 (16:00 - 17:00)

7.40% Of Daily Total

8th Highest Hour: 165 (13:00 - 14:00)

6.17% Of Daily Total

TRAFFIC SMITHY, INC
 1225 NW MURRAY BLVD SUITE 111
 PORTLAND, OR 97229
 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: 98TH AVENUE
 Location: SOUTH OF MILL PLAIN BOULEVARD

Date: 09/09/03
 Day of Week: Tuesday

SB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	0	1	2	4	2	1	1	4	1	0	0	0	16
01:00	0	0	0	0	1	1	1	1	0	0	2	0	6
02:00	1	1	0	0	0	0	2	0	0	1	0	0	5
03:00	1	1	0	0	0	1	2	0	0	0	1	0	6
04:00	1	0	1	1	0	0	3	0	0	1	0	0	7
05:00	2	1	0	1	3	1	1	4	2	1	1	4	21
06:00	4	1	5	7	5	4	8	5	8	7	8	6	68
07:00	8	7	5	9	6	11	9	13	10	18	17	12	125
08:00	8	15	7	7	12	11	8	15	13	12	22	17	147
09:00	9	14	9	6	13	5	9	8	12	7	6	8	106
10:00	11	7	8	6	5	5	6	13	7	9	2	5	84
11:00	7	8	13	16	13	9	11	8	8	12	16	13	134
12:00	14	6	15	15	12	7	16	11	12	16	12	19	155
13:00	5	7	11	10	3	10	6	5	16	17	11	8	109
14:00	16	13	9	6	17	16	12	11	17	14	9	10	150
15:00	14	16	16	11	13	21	14	14	10	11	13	20	173
16:00	12	20	16	22	11	14	16	11	24	30	22	18	216
17:00	16	26	25	21	22	24	21	21	24	15	14	16	245
18:00	15	16	16	10	13	11	6	7	15	9	17	12	147
19:00	13	10	11	15	7	20	15	14	10	11	11	5	142
20:00	5	8	8	3	6	7	8	9	12	6	9	10	91
21:00	3	8	10	5	6	4	8	5	8	5	10	7	79
22:00	5	5	8	4	2	1	2	4	4	5	3	3	46
23:00	5	5	3	1	1	8	5	0	2	5	1	1	37

Daily Total: 2315

AM Peak Hour: 149 (08:15 - 09:15)

6.43% Of Daily Total

PM Peak Hour: 270 (16:40 - 17:40)

11.6% Of Daily Total

4th Highest Hour: 155 (12:00 - 13:00)

6.69% Of Daily Total

8th Highest Hour: 142 (19:00 - 20:00)

6.13% Of Daily Total