

Roadway Survey Field Sheet

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

Location: NE 39TH S + NE 162ND AVE
 Location ID: _____ City: VANCOUVER

Type of Survey:
 Volume
 Speed
 Classification

Start Date: 9/3/03 Counters: 8
 S M T W T F S
 End Date: 9/5/03 Tubes: 8
 S M T W T F S

SITE EVALUATION			POSTED SPEED		DWELL TIME																																			
Vehicles Crossing Tube Perpendicular	YES <input type="checkbox"/>	NO <input type="checkbox"/>	?? <input type="checkbox"/>	<input type="checkbox"/> None	<input checked="" type="checkbox"/> 40 Mph	<table border="1"> <thead> <tr> <th>LOWEST SPEED</th> <th colspan="5">HIGHEST SPEED</th> </tr> <tr> <th>MPH</th> <th>10-20</th> <th>15-30</th> <th>25-40</th> <th>35-45</th> <th>> 45</th> </tr> </thead> <tbody> <tr> <td>Standing Queue</td> <td>200</td> <td>130</td> <td>100</td> <td>80</td> <td>40</td> </tr> <tr> <td>5 - 10 MPH</td> <td>130</td> <td>90</td> <td>70</td> <td>60</td> <td>40</td> </tr> <tr> <td>> 10 MPH</td> <td>100</td> <td>80</td> <td>60</td> <td>40</td> <td>40</td> </tr> </tbody> </table>					LOWEST SPEED	HIGHEST SPEED					MPH	10-20	15-30	25-40	35-45	> 45	Standing Queue	200	130	100	80	40	5 - 10 MPH	130	90	70	60	40	> 10 MPH	100	80	60	40	40
LOWEST SPEED	HIGHEST SPEED																																							
MPH	10-20	15-30	25-40	35-45	> 45																																			
Standing Queue	200	130	100	80	40																																			
5 - 10 MPH	130	90	70	60	40																																			
> 10 MPH	100	80	60	40	40																																			
Do You Anticipate Queuing Across Tube	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 25 Mph	<input type="checkbox"/> 45 Mph	(TAD, TBD) <u>A</u> <u>B</u> <u>M</u> <u>D</u>																																		
Speed Greater Than 20 Miles / Hour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 30 Mph	<input type="checkbox"/> 50 Mph																																			
Tube Crosses More Than 2 Lanes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 35 Mph	<input type="checkbox"/> 55 Mph																																			
SPEED: High _____ Mph Low _____ Mph				<input type="checkbox"/> Other: _____		Use 2 Counters if Traffic Conditions are different in each direction.																																		

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	

COUNTER/SET DOWN

Type: _____
 No.: _____
 Box: _____
 Tube Length: 40
 Hammer Test

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

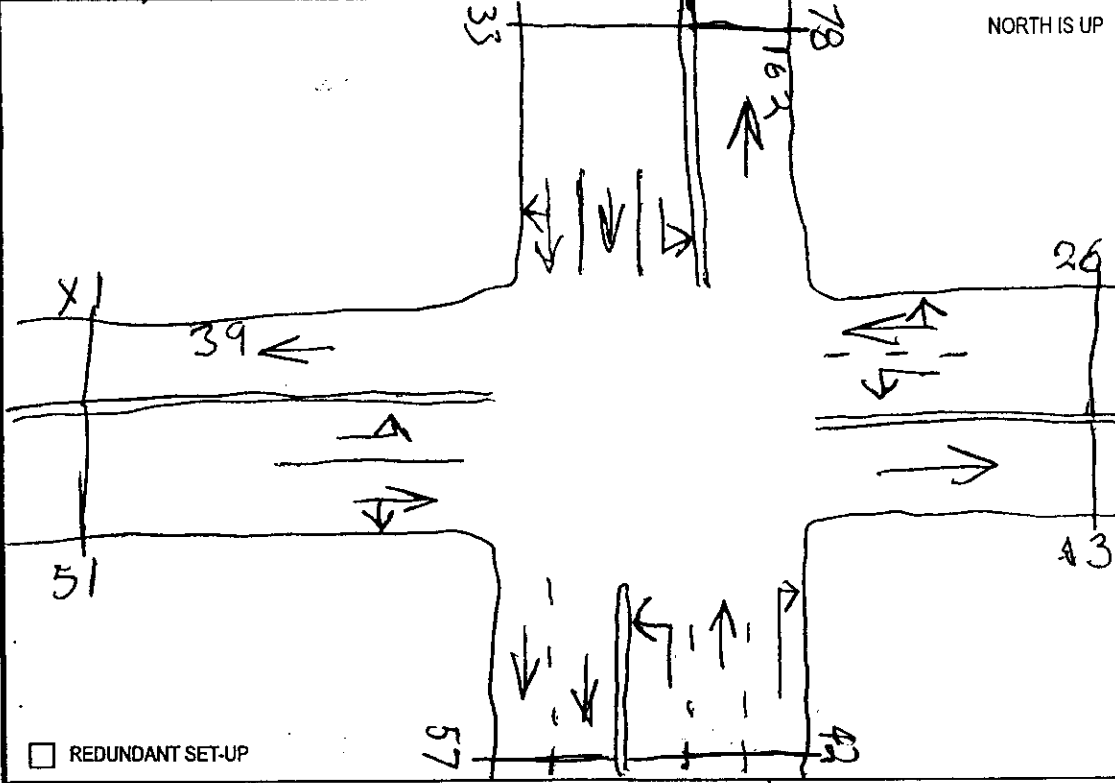
PICK-UP

Hammer Test
 Date: _____ Time: _____

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 Ruffed Curved



FILE NAMES

05162N42
05162N78
05162N533
05162N557
0539SE51
0539SEA3
0539SW26
0539SWX1

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: NE 162ND AVENUE
 Location: SOUTH OF 39TH STREET

Date: 09/04/03
 Day of Week: Thursday

NB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	11	10	9	12	5	15	4	8	5	6	5	7	97
01:00	4	6	0	2	5	8	3	2	3	2	3	1	39
02:00	7	3	8	1	3	0	4	0	3	2	2	0	33
03:00	0	1	0	3	2	1	0	0	4	3	2	1	17
04:00	1	0	0	3	5	1	1	2	3	3	2	3	24
05:00	4	4	8	5	6	7	3	5	4	9	6	11	72
06:00	7	11	20	16	15	22	31	26	47	27	32	40	294
07:00	36	35	47	38	51	51	30	61	52	55	37	60	553
08:00	34	42	41	34	24	40	31	31	31	31	23	38	400
09:00	45	27	26	33	46	35	35	41	36	33	50	41	448
10:00	41	28	37	42	36	46	46	49	24	42	43	31	465
11:00	42	42	40	51	37	36	36	58	51	52	44	47	536
12:00	50	45	45	35	55	55	52	41	38	38	51	39	544
13:00	34	63	49	60	51	38	41	56	52	48	51	47	590
14:00	58	38	78	72	49	55	57	66	66	51	64	52	706
15:00	65	72	58	74	63	56	66	60	89	59	65	82	809
16:00	64	82	74	87	48	64	67	73	65	85	75	101	885
17:00	66	77	93	106	93	85	91	80	79	70	71	78	989
18:00	68	67	75	67	80	80	60	51	42	50	64	57	761
19:00	68	47	57	52	57	62	53	43	51	47	53	51	641
20:00	47	48	53	51	50	47	40	46	44	49	32	44	551
21:00	31	36	37	52	30	40	37	41	16	27	18	27	392
22:00	23	22	24	10	28	29	20	15	7	14	11	14	217
23:00	17	7	13	16	14	20	16	7	14	11	14	9	158

Daily Total: 10221

AM Peak Hour: 558 (07:10 - 08:10)

5.45% Of Daily Total

PM Peak Hour: 1031 (16:45 - 17:45)

10.0% Of Daily Total

4th Highest Hour: 761 (18:00 - 19:00)

7.44% Of Daily Total

8th Highest Hour: 553 (07:00 - 08:00)

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: NE 162ND AVENUE
 Location: NORTH OF 39TH STREET

Date: 09/04/03
 Day of Week: Thursday

NB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	8	10	8	4	8	14	6	4	4	6	5	6	83
01:00	2	6	1	2	4	7	6	2	1	2	4	0	37
02:00	8	3	5	2	3	1	5	0	3	3	0	1	34
03:00	1	1	1	2	1	2	1	0	5	3	4	1	22
04:00	1	1	0	2	3	4	1	2	3	3	2	6	28
05:00	2	5	9	4	8	8	9	5	5	8	9	9	81
06:00	10	11	17	23	20	22	35	23	46	33	31	44	315
07:00	41	41	39	48	53	54	42	50	52	44	58	65	587
08:00	31	46	43	40	42	38	36	39	37	28	31	23	434
09:00	56	26	22	39	46	34	40	47	31	38	43	42	464
10:00	44	31	39	33	41	41	48	39	35	23	42	45	461
11:00	40	33	56	44	37	27	44	62	47	61	37	40	528
12:00	52	44	55	42	53	49	62	41	48	26	53	49	574
13:00	36	49	47	54	59	41	31	58	63	56	47	49	590
14:00	52	47	70	67	51	54	71	59	68	71	63	62	735
15:00	57	70	53	64	64	74	71	60	74	81	68	79	815
16:00	69	71	73	109	68	59	65	69	55	83	94	98	913
17:00	86	74	95	101	106	89	92	100	81	71	62	69	1026
18:00	73	88	78	74	72	75	65	52	59	64	65	52	817
19:00	62	60	70	53	46	58	47	40	54	51	50	45	636
20:00	37	67	49	38	59	38	40	51	48	40	40	37	544
21:00	34	34	43	46	27	33	40	35	22	24	17	20	375
22:00	20	19	20	15	24	18	26	16	10	13	9	15	205
23:00	13	10	13	16	11	15	19	7	10	12	15	6	147

Daily Total: 10451

AM Peak Hour: 587 (07:00 - 08:00)

5.61% Of Daily Total

PM Peak Hour: 1099 (16:45 - 17:45)

10.5% Of Daily Total

4th Highest Hour: 815 (15:00 - 16:00)

7.79% Of Daily Total

8th Highest Hour: 587 (07:00 - 08:00)

5.61% Of Daily Total

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

Roadway: NE 162ND AVENUE
 Location: NORTH OF 39TH STREET

Date: 09/04/03
 Day of Week: Thursday

SB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	6	6	8	4	6	4	3	0	1	2	5	1	46
01:00	4	6	4	2	7	4	2	4	2	1	5	2	43
02:00	0	0	2	3	0	3	7	0	2	6	5	1	29
03:00	1	3	1	1	1	2	1	3	3	2	5	2	25
04:00	2	2	6	4	9	8	6	5	4	7	3	7	63
05:00	10	4	5	12	12	15	18	16	30	20	22	26	190
06:00	23	27	31	33	42	37	38	54	53	76	67	56	537
07:00	60	55	43	65	55	65	61	65	83	64	70	70	756
08:00	50	55	55	64	58	68	72	51	67	66	60	67	733
09:00	54	57	43	41	40	43	59	43	42	52	40	33	547
10:00	26	46	40	41	39	50	32	41	40	35	48	42	480
11:00	36	46	48	39	45	39	46	43	47	51	51	33	524
12:00	59	47	57	51	50	52	37	47	66	48	53	52	619
13:00	57	51	47	54	41	53	38	45	43	50	60	54	593
14:00	50	46	40	55	47	62	55	63	46	69	61	49	643
15:00	57	62	62	50	50	62	58	65	59	58	71	52	706
16:00	60	47	55	57	55	67	56	58	58	61	60	86	720
17:00	73	78	65	90	73	78	77	68	94	77	65	78	916
18:00	78	73	62	63	56	72	51	69	59	72	47	49	751
19:00	43	49	55	45	45	56	61	41	36	63	38	51	583
20:00	50	23	36	43	32	34	45	32	34	44	31	38	442
21:00	35	33	39	31	23	37	21	20	26	24	16	20	325
22:00	14	18	22	14	14	16	12	15	12	10	10	12	169
23:00	8	6	12	7	7	8	6	10	9	9	7	8	97

Daily Total: 10537

AM Peak Hour: 774 (07:35 - 08:35)

7.34% Of Daily Total

PM Peak Hour: 924 (16:55 - 17:55)

8.76% Of Daily Total

4th Highest Hour: 733 (08:00 - 09:00)

6.95% Of Daily Total

8th Highest Hour: 619 (12:00 - 13:00)

5.87% Of Daily Total

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

Roadway: NE 162ND AVENUE
 Location: SOUTH OF 39TH STREET

Date: 09/04/03
 Day of Week: Thursday

SB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	4	8	7	5	6	3	4	2	0	2	4	3	48
01:00	6	5	5	2	6	4	5	1	5	1	2	4	46
02:00	0	0	2	3	1	2	3	3	1	7	6	0	28
03:00	2	3	2	0	3	0	2	5	4	3	5	3	32
04:00	2	3	2	7	9	9	6	8	9	7	3	8	73
05:00	10	8	9	11	13	17	19	26	32	21	28	26	220
06:00	33	25	25	44	39	44	45	44	54	79	66	77	575
07:00	54	69	65	44	47	77	53	72	68	78	65	92	784
08:00	55	51	61	62	56	65	79	61	64	63	70	54	741
09:00	58	60	50	47	46	51	59	40	44	45	55	30	585
10:00	41	30	48	35	40	44	39	37	43	36	47	46	486
11:00	40	58	43	43	40	41	44	48	42	55	49	41	544
12:00	48	62	51	53	32	70	27	46	70	47	55	45	606
13:00	58	51	47	49	50	39	46	45	48	47	57	48	585
14:00	51	37	45	43	59	58	54	59	43	79	73	54	655
15:00	50	49	59	50	51	58	53	70	61	60	59	60	680
16:00	60	49	63	58	54	59	48	50	60	72	52	73	698
17:00	74	80	66	65	93	64	73	61	82	72	79	61	870
18:00	75	64	69	60	62	52	64	67	75	65	54	27	734
19:00	51	48	51	46	42	45	55	41	36	47	48	46	556
20:00	50	26	31	50	33	34	51	29	34	40	33	39	450
21:00	41	34	41	31	20	32	25	21	25	28	18	16	332
22:00	16	20	19	20	15	11	13	18	14	8	10	11	175
23:00	10	7	13	8	7	8	7	9	14	6	8	7	104

Daily Total: 10607

AM Peak Hour: 804 (07:35 - 08:35)

7.57% Of Daily Total

PM Peak Hour: 882 (16:55 - 17:55)

8.31% Of Daily Total

4th Highest Hour: 734 (18:00 - 19:00)

6.91% Of Daily Total

8th Highest Hour: 606 (12:00 - 13:00)

5.71% Of Daily Total

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

Roadway: NE 39TH STREET
 Location: WEST OF 162ND AVENUE

Date: 09/04/03
 Day of Week: Thursday

EB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	1	0	1	0	1	1	2	0	2	0	1	1	10
01:00	2	0	1	0	1	0	0	0	2	0	0	0	6
02:00	0	0	0	0	1	0	0	2	0	0	1	0	4
03:00	0	1	1	0	1	0	0	2	0	0	0	1	6
04:00	1	2	1	1	0	0	3	2	2	3	1	6	22
05:00	6	7	2	3	10	9	8	3	4	11	8	7	78
06:00	3	7	5	12	16	9	12	16	11	14	14	14	133
07:00	17	14	22	20	14	13	10	11	14	14	14	6	169
08:00	9	11	8	9	13	10	5	6	8	7	7	6	99
09:00	7	10	5	4	12	3	5	5	5	2	4	4	66
10:00	11	9	4	8	10	7	6	11	10	5	13	4	98
11:00	11	10	10	8	9	10	7	12	11	13	10	8	119
12:00	11	14	7	6	9	6	9	12	6	10	6	7	103
13:00	9	8	11	8	9	7	6	4	11	8	17	9	107
14:00	14	11	10	19	26	12	11	7	9	8	12	11	150
15:00	14	14	13	13	11	13	13	8	16	18	17	10	160
16:00	2	5	14	18	15	14	19	17	14	14	22	13	167
17:00	14	15	17	25	21	6	14	5	11	13	5	10	156
18:00	13	5	7	7	9	4	11	12	14	9	10	7	108
19:00	8	9	6	9	13	13	8	10	9	16	5	10	116
20:00	10	8	12	6	7	8	12	9	10	3	3	7	95
21:00	7	5	4	7	3	2	1	4	7	7	4	1	52
22:00	3	5	2	1	0	5	1	4	5	2	1	0	29
23:00	2	5	6	2	1	3	2	1	0	0	0	0	22

Daily Total: 2075

AM Peak Hour: 181 (06:30 - 07:30)

8.72% Of Daily Total

PM Peak Hour: 205 (16:25 - 17:25)

9.87% Of Daily Total

4th Highest Hour: 156 (17:00 - 18:00)

7.51% Of Daily Total

8th Highest Hour: 116 (19:00 - 20:00)

5.59% Of Daily Total

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

Roadway: NE 39TH STREET
 Location: WEST OF 162ND AVENUE

Date: 09/04/03
 Day of Week: Thursday

WB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	3	1	2	5	0	4	0	3	1	0	1	1	21
01:00	2	1	0	0	2	0	0	0	2	0	0	0	7
02:00	0	0	2	1	1	1	1	0	0	0	0	1	7
03:00	1	0	0	1	0	1	0	0	0	0	0	0	3
04:00	0	0	0	1	2	0	1	0	1	1	1	1	8
05:00	1	2	0	2	1	1	4	3	1	1	3	3	22
06:00	5	3	3	5	3	3	8	5	11	8	7	10	71
07:00	4	14	14	6	11	17	9	14	21	13	14	14	151
08:00	8	12	10	9	2	14	5	5	6	6	6	6	89
09:00	5	9	2	9	9	11	4	10	6	5	7	9	86
10:00	3	9	6	5	8	3	13	10	3	7	6	3	76
11:00	11	11	6	9	13	11	9	10	10	6	7	8	111
12:00	9	5	6	11	7	4	4	9	9	4	10	5	83
13:00	13	14	12	11	9	13	11	7	5	5	12	9	121
14:00	11	10	11	10	7	13	10	18	15	12	13	8	138
15:00	8	16	16	13	10	7	8	12	13	14	11	15	143
16:00	10	14	13	7	8	14	19	25	13	12	12	15	162
17:00	17	21	5	17	12	17	15	12	18	12	8	15	169
18:00	11	8	8	12	6	16	9	8	7	6	11	9	111
19:00	11	11	2	11	16	9	3	6	4	11	15	15	114
20:00	4	8	8	14	10	11	7	9	9	7	5	7	99
21:00	4	3	3	8	6	13	3	5	3	6	8	7	69
22:00	7	3	4	3	7	6	3	2	2	4	3	1	45
23:00	2	2	1	2	4	3	1	1	4	3	1	2	26

Daily Total: 1932

AM Peak Hour: 155 (07:05 - 08:05)

8.02% Of Daily Total

PM Peak Hour: 185 (16:30 - 17:30)

9.57% Of Daily Total

4th Highest Hour: 143 (15:00 - 16:00)

7.40% Of Daily Total

8th Highest Hour: 111 (11:00 - 12:00)

5.74% Of Daily Total

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

Roadway: NE 39TH STREET
 Location: EAST OF NE 162ND AVENUE

Date: 09/04/03
 Day of Week: Thursday

EB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	0	1	3	1	1	1	0	0	2	0	0	0	9
01:00	0	0	1	0	2	1	0	0	1	1	0	1	7
02:00	1	0	0	0	0	0	0	0	0	0	1	0	2
03:00	0	1	0	0	0	0	1	0	0	0	0	0	2
04:00	0	0	0	0	0	0	0	0	0	1	0	1	2
05:00	0	2	0	1	2	1	1	1	2	3	6	4	23
06:00	3	2	6	7	5	1	1	3	1	7	5	7	48
07:00	5	7	9	12	13	10	22	10	10	15	11	7	131
08:00	8	7	9	6	9	4	4	7	8	9	15	10	96
09:00	8	7	4	6	9	7	1	3	7	3	7	7	69
10:00	2	4	10	6	7	7	11	8	8	12	6	11	92
11:00	7	2	12	5	7	7	6	6	7	10	12	10	91
12:00	4	5	8	11	10	10	4	17	6	11	6	8	100
13:00	7	11	9	11	10	9	11	10	6	11	7	11	113
14:00	9	10	10	16	15	13	10	8	7	16	14	10	138
15:00	11	13	5	3	8	11	10	11	15	14	10	12	123
16:00	11	12	11	7	18	18	8	14	10	8	9	18	144
17:00	20	17	17	17	13	15	22	15	25	34	24	8	227
18:00	13	16	13	16	13	9	18	9	12	8	10	19	156
19:00	10	11	11	8	13	12	19	6	6	7	12	11	126
20:00	8	1	8	6	7	13	8	8	15	7	9	10	100
21:00	6	6	4	7	7	8	6	5	4	4	1	4	62
22:00	4	2	5	1	3	5	4	4	2	1	1	3	35
23:00	2	2	0	4	0	1	2	2	2	1	3	3	22

Daily Total: 1918

AM Peak Hour: 134 (07:05 - 08:05)

6.98% Of Daily Total

PM Peak Hour: 237 (16:55 - 17:55)

12.3% Of Daily Total

4th Highest Hour: 138 (14:00 - 15:00)

7.19% Of Daily Total

8th Highest Hour: 113 (13:00 - 14:00)

5.89% Of Daily Total

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

Roadway: NE 39TH STREET
 Location: EAST OF 162ND AVENUE

Date: 09/04/03
 Day of Week: Thursday

WB Traffic

TIME	:00	:05	:10	:15	:20	:25	:30	:35	:40	:45	:50	:55	Total
00:00	0	2	2	2	0	1	1	0	0	1	0	0	9
01:00	0	0	0	0	3	0	0	0	1	0	0	0	4
02:00	1	0	0	0	2	0	1	0	1	0	0	1	6
03:00	2	0	1	0	0	0	1	2	2	0	1	0	9
04:00	2	0	0	0	2	0	1	0	1	2	1	5	14
05:00	0	4	2	1	2	1	10	3	7	2	3	4	39
06:00	9	3	9	8	7	12	7	8	19	9	14	11	116
07:00	6	12	20	18	14	19	14	17	14	19	23	12	188
08:00	16	14	12	9	8	14	13	11	14	9	12	7	139
09:00	9	7	8	15	11	14	8	12	10	5	8	8	115
10:00	10	9	8	10	12	9	13	4	10	7	11	11	114
11:00	13	7	11	7	10	16	13	16	7	9	7	7	123
12:00	8	5	9	12	12	9	12	6	11	8	10	8	110
13:00	19	11	6	14	10	14	15	11	11	10	5	12	138
14:00	16	8	12	12	9	16	13	22	31	16	9	15	179
15:00	10	10	11	11	10	9	7	17	18	17	16	26	162
16:00	14	20	19	22	13	13	15	22	14	18	14	19	203
17:00	18	27	16	29	15	20	18	15	13	22	7	15	215
18:00	11	16	11	14	14	12	12	6	26	15	17	13	167
19:00	7	16	14	8	8	9	6	8	5	9	8	7	105
20:00	2	16	10	6	5	6	11	10	11	10	11	8	106
21:00	6	5	3	8	3	1	5	3	4	6	5	0	49
22:00	2	3	4	0	4	4	0	5	3	1	1	0	27
23:00	0	3	0	2	0	3	2	1	2	1	2	0	16

Daily Total: 2353

AM Peak Hour: 200 (07:10 - 08:10)

8.49% Of Daily Total

PM Peak Hour: 230 (16:35 - 17:35)

9.77% Of Daily Total

4th Highest Hour: 179 (14:00 - 15:00)

7.60% Of Daily Total

8th Highest Hour: 138 (13:00 - 14:00)

5.86% Of Daily Total