

# Roadway Survey Field Sheet

TS Project #	Map	Grid	Start Time	# Of Days
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Location: NE 49 ST + ST JAMES RD

Location ID: \_\_\_\_\_ City: VANCOUVER

Type of Survey

Volume  
 Speed  
 Classification

Start Date: 9/3/03

End Date: 9/5/03

Counters: \_\_\_\_\_ Tubes: \_\_\_\_\_

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

AXLE STRIKE COUNT	SYSTEM DELAY LOGIC	SPEED LOGIC	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/SETDOWN

Type: AMAX

No. \_\_\_\_\_

Box \_\_\_\_\_

Tube Length: 40

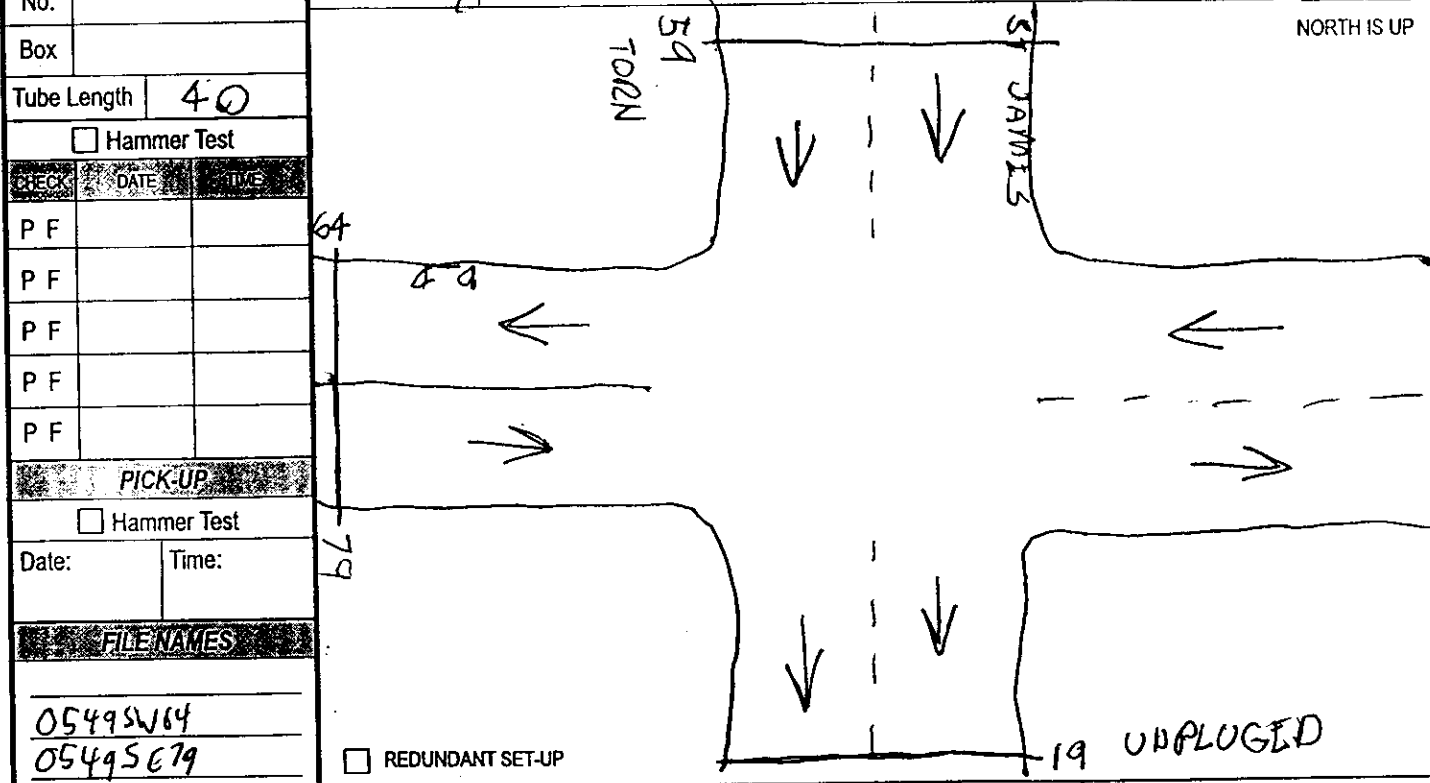
Hammer Test

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

**NORTH**  
NORTH IS UP



PICK-UP

Hammer Test

Date: \_\_\_\_\_ Time: \_\_\_\_\_

FILE NAMES

0549SW64  
0549SE79  
05SJAS19  
05SJAS59

REMARKS: WEATHER:  Sunny  Overcast  Rain  Snow

Redo North Leg  
South Leg

Surveyed By: M.P.

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

Roadway: NE 49TH STREET  
 Location: WEST OF ST JAMES ROAD

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	0	2	0	0	1	1	1	1	0	0	0	6
01:00	0	1	1	1	0	0	0	0	0	0	1	0	4
02:00	1	0	0	0	0	2	0	0	0	0	0	0	3
03:00	0	0	1	0	0	0	0	0	0	0	1	0	2
04:00	0	1	0	0	1	1	0	0	0	0	0	0	3
05:00	0	0	1	0	0	0	1	1	1	0	1	0	5
06:00	2	0	0	0	3	0	2	5	2	3	1	1	19
07:00	2	1	0	2	2	5	2	1	0	3	5	3	26
08:00	4	3	7	2	0	3	2	6	3	1	4	2	37
09:00	2	2	6	4	6	4	5	1	3	5	2	6	46
10:00	6	1	9	3	2	5	2	5	5	2	3	5	48
11:00	4	7	2	4	4	4	1	3	1	1	3	1	35
12:00	1	2	5	2	2	8	7	3	3	8	4	5	50
13:00	1	5	6	5	3	6	2	2	6	4	4	1	45
14:00	6	3	2	6	4	6	7	3	4	8	2	9	60
15:00	9	9	2	5	5	7	7	1	3	8	2	2	60
16:00	6	8	5	5	6	9	8	8	3	11	6	4	79
17:00	5	3	9	6	6	6	3	5	7	2	2	3	57
18:00	4	8	2	10	6	9	5	5	3	1	3	8	64
19:00	3	5	2	4	5	3	7	3	3	3	4	3	45
20:00	3	1	6	3	0	5	4	6	0	2	3	6	39
21:00	1	4	4	3	0	4	3	3	4	1	5	2	34
22:00	1	2	1	2	4	1	1	2	2	0	6	3	25
23:00	1	2	1	0	1	3	0	0	3	0	1	0	12

Daily Total: 804

AM Peak Hour: 52 (09:15 - 10:15)

6.46% Of Daily Total

PM Peak Hour: 79 (16:00 - 17:00)

9.82% Of Daily Total

4th Highest Hour: 60 (15:00 - 16:00)

7.46% Of Daily Total

8th Highest Hour: 46 (09:00 - 10:00)

5.72% 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 49TH STREET  
 Location: WEST OF ST JAMES ROAD

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	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	0	0	1	0	0	3	4
02:00	0	0	0	1	0	1	0	0	0	0	1	0	3
03:00	0	0	0	0	0	0	1	0	0	2	0	0	3
04:00	0	0	0	0	2	1	0	0	1	0	1	0	5
05:00	0	0	0	1	0	1	2	2	0	1	1	1	9
06:00	3	1	0	0	2	1	6	3	3	5	1	1	26
07:00	2	2	1	3	6	5	4	3	2	7	6	7	48
08:00	9	3	6	4	3	2	5	2	8	3	5	9	59
09:00	3	5	4	4	4	1	5	0	10	5	2	4	47
10:00	4	7	3	5	6	3	4	4	3	6	5	3	53
11:00	6	2	2	4	8	3	4	9	2	7	1	4	52
12:00	1	2	7	5	6	5	3	4	6	5	1	4	49
13:00	3	1	4	8	2	3	3	4	3	4	0	0	35
14:00	5	2	7	2	2	9	8	4	9	3	6	5	62
15:00	4	5	2	7	3	2	6	4	5	11	3	6	58
16:00	7	11	3	4	5	5	8	10	1	9	10	3	76
17:00	3	4	4	4	7	3	7	7	10	5	3	5	62
18:00	7	6	10	7	2	1	8	4	2	2	4	4	57
19:00	6	2	4	2	4	3	2	1	4	2	2	4	36
20:00	3	3	8	3	1	3	3	2	4	4	2	1	37
21:00	1	0	5	2	2	0	3	2	5	1	3	1	25
22:00	4	1	1	0	1	1	2	1	0	2	1	2	16
23:00	2	0	2	2	1	2	0	0	0	1	0	0	10

Daily Total: 833

AM Peak Hour: 62 (07:20 - 08:20)

7.44% Of Daily Total

PM Peak Hour: 79 (15:55 - 16:55)

9.48% Of Daily Total

4th Highest Hour: 59 (08:00 - 09:00)

7.08% Of Daily Total

8th Highest Hour: 52 (11:00 - 12:00)

6.24% Of Daily Total

# Roadway Survey Field Sheet

TS Project # \_\_\_\_\_ Map \_\_\_\_\_ Grid \_\_\_\_\_ Start Time \_\_\_\_\_ # Of Days \_\_\_\_\_

Location: NE. 49TH ST. + ST JAMES

**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 2

Tubes 2

Location ID: \_\_\_\_\_

City: VANCOUVER

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

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: A MAX

No. 41/24

Box \_\_\_\_\_

Tube Length \_\_\_\_\_

Hammer Test

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

**PICK-UP**

Hammer Test

Date: 9/10/03 Time: 10:00

**FILE NAMES**

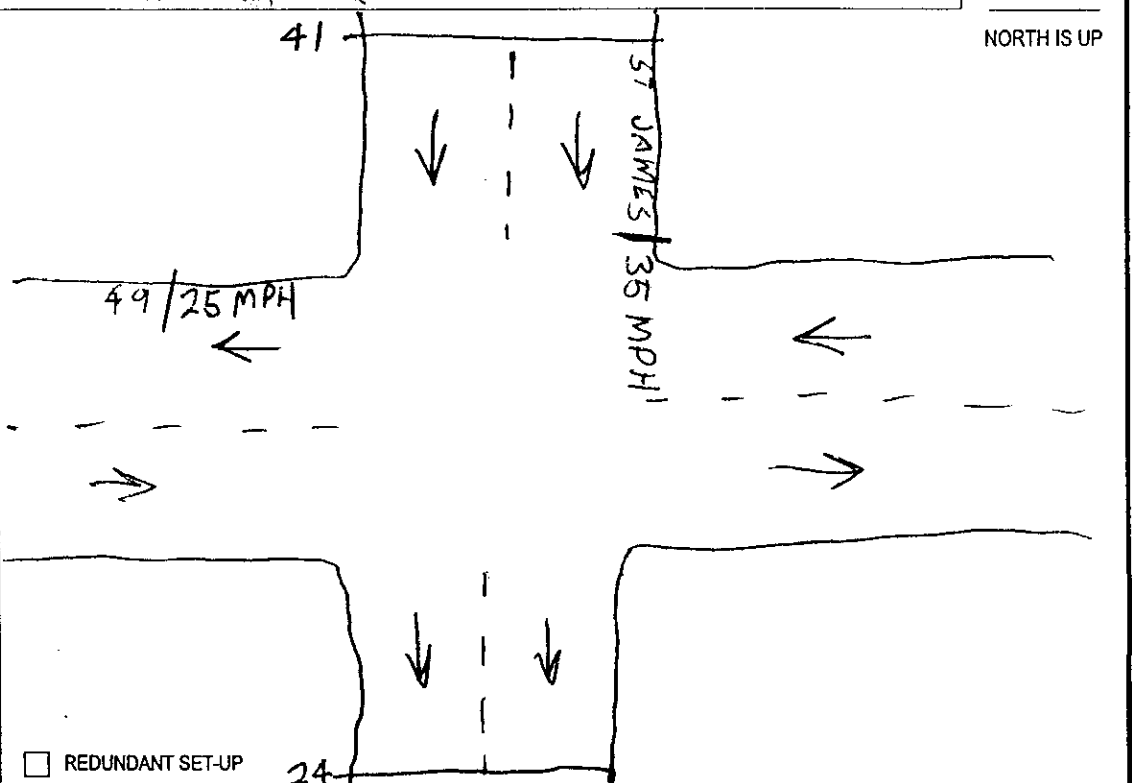
1049TS41

105JAS24

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



Remarks: WEATHER:  Sunny  Overcast  Rain  Snow

Surveyed By: M. P.

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Roadway: ST JAMES ROAD  
 Location: NORTH OF 49TH

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	7	1	7	1	5	6	6	2	3	4	7	2	51
01:00	0	3	8	1	2	3	2	0	1	1	2	1	24
02:00	4	2	1	3	2	1	1	1	2	4	1	3	25
03:00	3	1	3	3	0	2	3	1	4	0	3	1	24
04:00	3	5	1	3	4	1	5	8	6	10	2	8	56
05:00	4	4	8	7	13	16	10	28	10	24	17	23	164
06:00	10	15	26	27	39	42	56	57	56	63	69	60	520
07:00	47	59	68	67	78	74	60	76	75	104	103	73	884
08:00	85	68	57	82	55	42	68	63	62	72	82	64	800
09:00	63	65	57	60	52	48	48	46	42	48	43	37	609
10:00	55	50	50	51	53	40	50	57	62	59	47	59	633
11:00	62	43	51	43	62	67	48	53	45	64	72	53	663
12:00	73	66	65	58	61	56	56	52	67	67	58	49	728
13:00	49	60	46	44	52	44	46	65	79	61	46	56	648
14:00	47	65	64	53	65	47	56	68	54	64	57	50	690
15:00	63	62	71	72	70	59	43	75	89	74	71	66	815
16:00	82	69	78	57	61	63	63	80	57	57	66	61	794
17:00	75	63	71	59	72	59	64	48	50	63	54	55	733
18:00	57	37	52	43	79	47	32	49	57	38	60	40	591
19:00	38	44	32	39	42	26	25	39	30	28	38	28	409
20:00	28	19	28	30	22	22	30	29	35	27	20	27	317
21:00	25	30	18	30	21	16	18	20	23	25	19	28	273
22:00	16	21	22	18	19	16	5	6	10	6	15	9	163
23:00	11	10	5	4	7	3	3	7	4	9	7	3	73

Daily Total: 10687

AM Peak Hour: 935 (07:20 - 08:20)

8.74% Of Daily Total

PM Peak Hour: 853 (15:40 - 16:40)

7.98% Of Daily Total

4th Highest Hour: 794 (16:00 - 17:00)

7.42% Of Daily Total

8th Highest Hour: 663 (11:00 - 12:00)

6.20% Of Daily Total

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 Phone: 503-641-6333 Fax: 503-643-8866

Roadway: ST JAMES ROAD  
 Location: SOUTH OF 49TH

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	2	5	4	3	3	4	7	4	4	6	4	2	48
01:00	1	3	3	3	3	2	2	1	0	1	3	5	27
02:00	2	3	2	2	1	3	2	0	3	3	0	4	25
03:00	3	1	3	3	2	3	2	3	2	0	2	1	25
04:00	6	3	2	4	3	5	4	9	7	9	3	7	62
05:00	7	5	9	7	15	15	20	28	17	25	21	34	203
06:00	14	21	28	38	41	46	47	70	52	66	85	53	561
07:00	47	79	62	83	69	79	70	74	82	116	100	86	947
08:00	78	70	70	64	62	56	59	81	60	72	77	72	821
09:00	53	74	55	62	59	46	54	51	36	55	48	31	624
10:00	62	44	52	57	48	47	55	62	59	56	45	57	644
11:00	64	48	59	44	65	56	51	55	57	65	66	41	671
12:00	89	62	58	58	67	49	57	44	69	74	55	59	741
13:00	48	55	52	44	54	47	52	75	71	69	50	62	679
14:00	59	63	65	55	58	55	60	68	57	62	62	56	720
15:00	60	54	72	63	74	44	58	67	82	73	66	64	777
16:00	69	68	64	72	59	61	60	75	61	74	65	62	790
17:00	65	66	71	65	67	67	65	48	50	64	50	49	727
18:00	56	40	51	44	70	38	31	51	48	44	47	31	551
19:00	48	38	33	42	30	33	26	35	22	27	38	25	397
20:00	22	28	33	22	21	30	26	31	39	28	19	29	328
21:00	30	24	25	28	17	21	14	21	27	19	16	21	263
22:00	20	22	25	21	23	12	6	15	12	9	13	10	188
23:00	10	8	6	8	5	4	5	7	11	6	8	6	84

Daily Total: 10903

AM Peak Hour: 978 (07:05 - 08:05)

8.97% Of Daily Total

PM Peak Hour: 813 (15:40 - 16:40)

7.45% Of Daily Total

4th Highest Hour: 777 (15:00 - 16:00)

7.12% Of Daily Total

8th Highest Hour: 679 (13:00 - 14:00)

6.22% Of Daily Total