

Date : 05/06/14

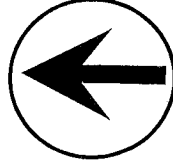
Count Number : TMC-1406

Location : CSAH 78 (Hanson Blvd.)

@ CR 16 (Andover Blvd.)

Collection Period : PEAK HOURS

6:30-8:30 AM, 1-2:00 PM, 4-6:00 PM



North

6049

#2

CSAH 78

3236			
40	D	3035	T
		161	

2813

208	G	1354	
424	H		
722	J		

CR 16

#3

1075

562			
239	A	255	B
68	C		

722

#1

1284

Andover Blvd.

258	M	3454	
2537	L		
659	K		

3996

#4

7450

CSAH 78

EXISTING LANES OF APPROACH				TOTAL
RIGHT TURN LANE	LEFT TURN LANE	THRU LANES		
0	1	1		2
0	1	1		2
0	1	1		2
1	1	1		3

Anoka County Highway Department
Traffic Volume and Turning
Movement Study

Date : 05/06/14

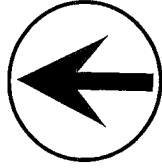
Count Number : TMC1406

Location : CSAH 78 (Hanson Blvd.)

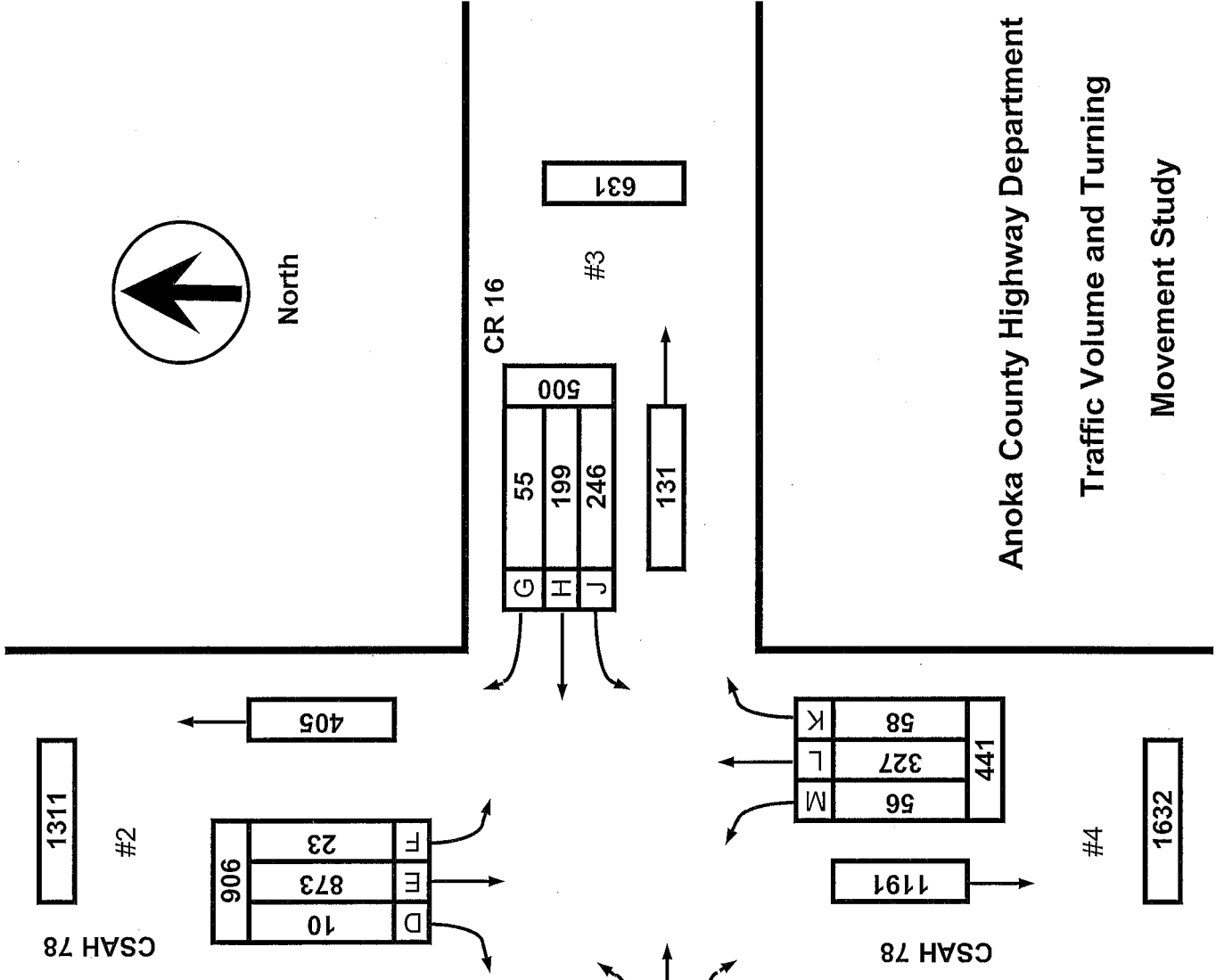
@ CR 16 (Andover Blvd.)

Collection Period : AM PEAK

Hour : 7 - 8:00 AM



North



Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

	EXISTING LANES OF APPROACH			TOTAL
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	
#1	0	1	1	2
#2	0	1	1	2
#3	0	1	1	2
#4	1	1	1	3

#1

410	265
145	23
50	50
72	72

Andover Blvd.

CSAH 78

1311	#2
906	405
10	23
873	500
55	199
246	246

CR 16

55	500
199	131
246	631

CSAH 78

1191	#4
56	441
327	1632
58	1632

Date : 05/06/14

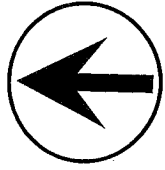
Count Number : TMC1406

Location : CSAH 78 (Hanson Blvd.)

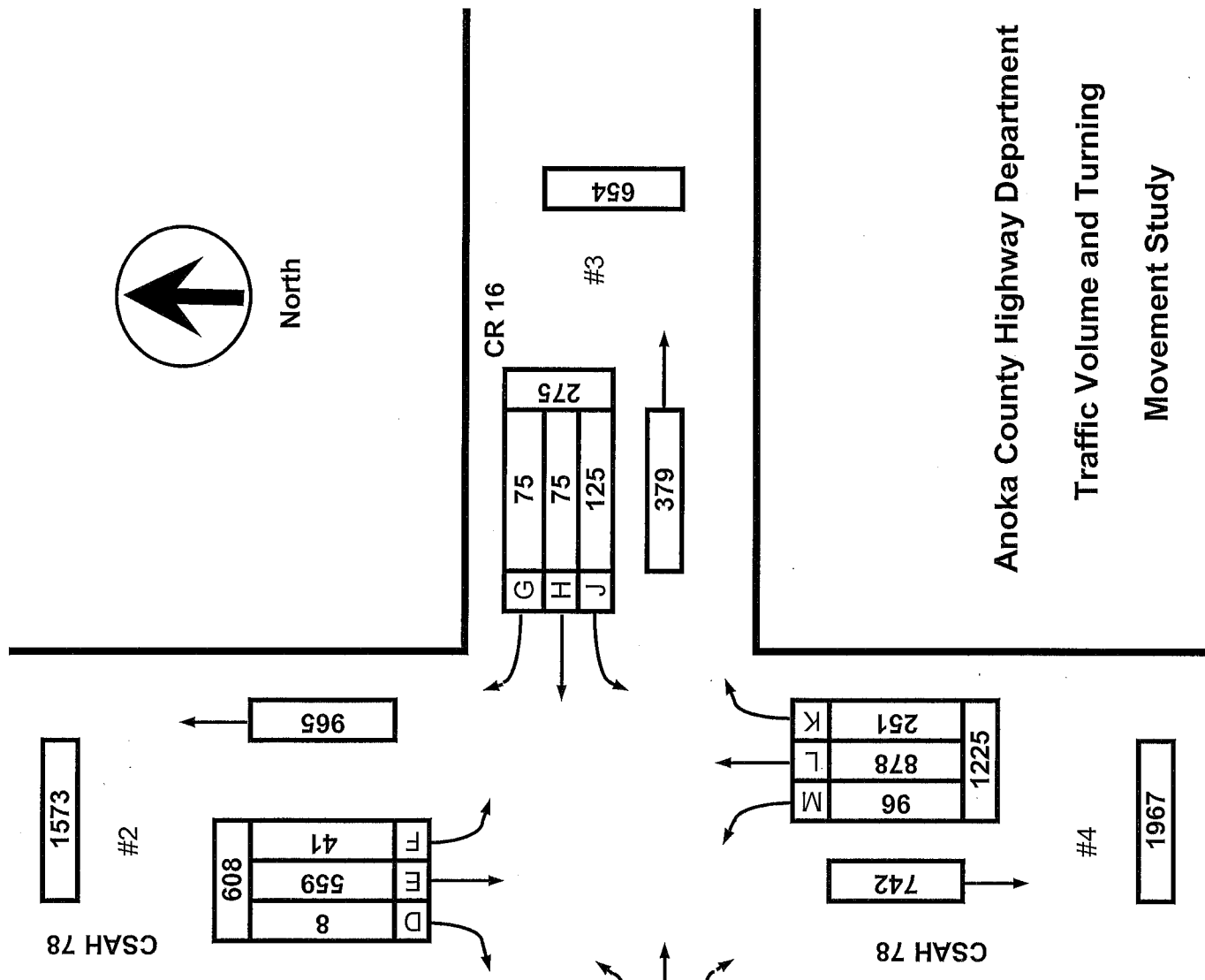
@ CR 16 (Andover Blvd.)

Collection Period : PM PEAK

Hour : 4:45 - 5:45 PM



North



#1

336
179
157
12
87
58
C
B
A

Andover Blvd.

#2

1573
608
8
559
41
F
F
D

CSAH 78

#3

75
75
125
G
H
J

CR 16

#4

967
742
96
878
251
M
L
K
1225

CSAH 78

	EXISTING LANES OF APPROACH			TOTAL
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	
#1	0	1	1	2
#2	0	1	1	2
#3	0	1	1	2
#4	1	1	1	3

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 1406
 Site Code : 14060203
 Start Date : 05/06/2014
 Page No : 1

Weather: Cool and Cloudy
 Counter: DB-400
 Study Conducted By: Sam and Andrea

Groups Printed- Unshifted

Start Time	CSAH 78 Southbound					CR 16 Westbound					CSAH 78 Northbound					Andover Blvd. Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavys	App. Total	Left	Thru	Right	Heavys	App. Total	Left	Thru	Right	Heavys	App. Total	Left	Thru	Right	Heavys	App. Total			
06:30	2	235	0	3	237	53	8	4	0	65	2	45	4	5	51	2	5	19	0	26	8	379	387
06:45	3	216	1	4	220	58	19	12	2	89	16	45	9	8	70	1	6	8	1	15	15	394	409
Total	5	451	1	7	457	111	27	16	2	154	18	90	13	13	121	3	11	27	1	41	23	773	796
07:00	9	218	5	2	232	66	74	9	4	149	25	64	14	9	103	6	10	25	6	41	21	525	546
07:15	6	227	4	7	237	61	90	18	3	169	26	75	10	5	111	9	16	17	5	42	20	559	579
07:30	8	230	1	2	239	60	21	9	2	90	3	80	15	8	98	6	20	22	2	48	14	475	489
07:45	0	198	0	5	198	59	14	19	2	92	2	108	19	7	129	2	4	8	1	14	15	433	448
Total	23	873	10	16	906	246	199	55	11	500	56	327	58	29	441	23	50	72	14	145	70	1992	2062
08:00	15	192	4	12	211	29	8	8	0	45	3	78	10	8	91	4	4	8	1	16	21	363	384
08:15	8	133	2	9	143	32	9	5	1	46	1	74	18	11	93	1	3	14	0	18	21	300	321
*** BREAK ***																							
Total	23	325	6	21	354	61	17	13	1	91	4	152	28	19	184	5	7	22	1	34	42	663	705
*** BREAK ***																							
13:00	5	90	2	3	97	18	2	0	1	20	4	84	17	3	105	1	5	7	0	13	7	235	242
13:15	2	91	1	4	94	17	6	2	2	25	2	66	23	6	91	3	5	4	3	12	15	222	237
13:30	4	91	1	1	96	18	6	2	1	26	1	74	17	0	92	2	4	8	0	14	2	228	230
13:45	6	85	0	3	91	20	6	2	2	28	3	71	26	0	100	0	6	5	0	11	5	230	235
Total	17	357	4	11	378	73	20	6	6	99	10	295	83	9	388	6	20	24	3	50	29	915	944
*** BREAK ***																							
16:00	14	135	3	6	152	26	23	7	1	56	14	162	47	2	223	4	15	7	1	26	10	457	467
16:15	19	100	3	8	122	20	14	10	1	44	23	233	51	4	307	3	29	4	1	36	14	509	523
16:30	14	128	2	9	144	25	29	10	2	64	20	201	74	6	295	4	18	5	0	27	17	530	547
16:45	12	133	3	7	148	26	16	15	1	57	20	226	48	5	294	2	20	13	0	35	13	534	547
Total	59	496	11	30	566	97	82	42	5	221	77	822	220	17	1119	13	82	29	2	124	54	2030	2084
17:00	8	148	1	5	157	28	19	13	0	60	23	234	77	3	334	4	27	6	0	37	8	588	596
17:15	8	142	3	6	153	45	24	31	1	100	22	210	65	2	297	4	19	24	0	47	9	597	606
17:30	13	136	1	0	150	26	16	16	2	58	31	208	61	3	300	2	21	15	0	38	5	546	551
17:45	5	107	3	0	115	35	20	16	2	71	17	199	54	1	270	8	18	20	1	46	4	502	506
Total	34	533	8	11	575	134	79	76	5	289	93	851	257	9	1201	18	85	65	1	168	26	2233	2259
Grand Total	161	3035	40	96	3236	722	424	208	30	1354	258	2537	659	96	3454	68	255	239	22	562	244	8606	8850
Apprch %	5	93.8	1.2			53.3	31.3	15.4			7.5	73.5	19.1			12.1	45.4	42.5					
Total %	1.9	35.3	0.5		37.6	8.4	4.9	2.4		15.7	3	29.5	7.7		40.1	0.8	3	2.8		6.5	2.8	97.2	

Start Time	CSAH 78 Southbound				CR 16 Westbound				CSAH 78 Northbound				Andover Blvd. Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 06:30 to 11:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00																	
07:00	9	218	5	232	66	74	9	149	25	64	14	103	6	10	25	41	525
07:15	6	227	4	237	61	90	18	169	26	75	10	111	9	16	17	42	559
07:30	8	230	1	239	60	21	9	90	3	80	15	98	6	20	22	48	475
07:45	0	198	0	198	59	14	19	92	2	108	19	129	2	4	8	14	433
Total Volume	23	873	10	906	246	199	55	500	56	327	58	441	23	50	72	145	1992
% App. Total	2.5	96.4	1.1		49.2	39.8	11		12.7	74.1	13.2		15.9	34.5	49.7		
PHF	.639	.949	.500	.948	.932	.553	.724	.740	.538	.757	.763	.855	.639	.625	.720	.755	.891

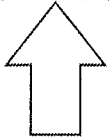


Anoka County Highway Department
 Traffic Engineering Section
 Traffic Volume and Turning Movement Study

Weather: Cool and Cloudy
 Counter: DB-400
 Study Conducted By: Sam and Andrea

File Name : TMC 1406
 Site Code : 14060203
 Start Date : 05/06/2014
 Page No : 2

Start Time	CSAH 78 Southbound				CR 16 Westbound				CSAH 78 Northbound				Andover Blvd. Eastbound				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 12:00 to 17:45 - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 16:45																	
16:45	12	133	3	148	26	16	15	57	20	226	48	294	2	20	13	35	534
17:00	8	148	1	157	28	19	13	60	23	234	77	334	4	27	6	37	588
17:15	8	142	3	153	45	24	31	100	22	210	65	297	4	19	24	47	597
17:30	13	136	1	150	26	16	16	58	31	208	61	300	2	21	15	38	546
Total Volume	41	559	8	608	125	75	75	275	96	878	251	1225	12	87	58	157	2265
% App. Total	6.7	91.9	1.3		45.5	27.3	27.3		7.8	71.7	20.5		7.6	55.4	36.9		
PHF	.788	.944	.667	.968	.694	.781	.605	.688	.774	.938	.815	.917	.750	.806	.604	.835	.948



NORTH

COUNT LOCATION:

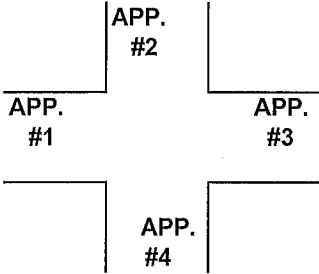
CSAH 78 (Hanson Blvd.)

DATE:

05/06/2014

@ CR 16 (Andover Blvd.)

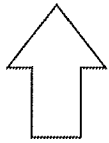
APP. #1 = Andover Blvd.
APP. #2 = CSAH 78
APP. #3 = CR 16
APP. #4 = CSAH 78



- HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
- A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
 - B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
 - C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM								
6:15-6:30								
6:30-6:45						3		5
6:45-7:00	2	1		2	5	4		10
HOURLY TOTAL					5	HOURLY TOTAL		22
7:00-7:15	1	1	1	3	6	8		13
7:15-7:30	2	2	2	3	9	6		15
7:30-7:45	4			4	8	8		6
7:45-8:00	4	1	2	4	11	5		10
HOURLY TOTAL					34	HOURLY TOTAL		71
8:00-8:15	2			3	5	10		10
8:15-8:30	3	1	1	2	7	7		14
8:30-8:45								
8:45-9:00								
HOURLY TOTAL					12	HOURLY TOTAL		41
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		
10:00-10:15								
10:15-10:30								
10:30-10:45								
10:45-11:00								
HOURLY TOTAL						HOURLY TOTAL		
11:00-11:15								
11:15-11:30								
11:30-11:45								
11:45-12:00								
HOURLY TOTAL						HOURLY TOTAL		
12:00-12:15								
12:15-12:30								
12:30-12:45								
12:45-1:00								
HOURLY TOTAL						HOURLY TOTAL		
1:00-1:15						4		2
1:15-1:30						14		2
1:30-1:45						2		
1:45-2:00						5		
HOURLY TOTAL						HOURLY TOTAL		29
TOTAL					51	TOTAL		163

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NORTH

COUNT LOCATION:

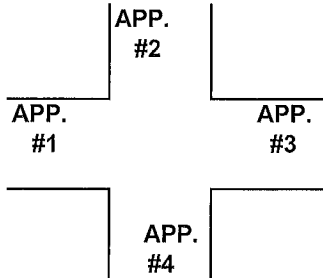
CSAH 78 (Hanson Blvd.)

DATE:

05/06/2014

@ CR 16 (Andover Blvd.)

APP. #1 = Andover Blvd.
APP. #2 = CSAH 78
APP. #3 = CR 16
APP. #4 = CSAH 78



- HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT**
- A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
 - B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
 - C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
2:00-2:15PM								
2:15-2:30								
2:30-2:45								
2:45-3:00								
HOURLY TOTAL						HOURLY TOTAL		
3:00-3:15								
3:15-3:30								
3:30-3:45								
3:45-4:00								
HOURLY TOTAL						HOURLY TOTAL		
4:00-4:15		1	1		2	3		7
4:15-4:30	2	1	1	1	5	8		6
4:30-4:45		1	1	1	3	6		11
4:45-5:00				1	1	2		11
HOURLY TOTAL					11	HOURLY TOTAL		54
5:00-5:15		3	3		6	2		6
5:15-5:30		3		5	8	3		6
5:30-5:45	1	1	1	1	4	3	1	1
5:45-6:00	3			2	5	3		1
HOURLY TOTAL					23	HOURLY TOTAL		26
6:00-6:15								
6:15-6:30								
6:30-6:45								
6:45-7:00								
HOURLY TOTAL						HOURLY TOTAL		
7:00-7:15								
7:15-7:30								
7:30-7:45								
7:45-8:00								
HOURLY TOTAL						HOURLY TOTAL		
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		
					TOTAL		TOTAL	
					85		243	

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