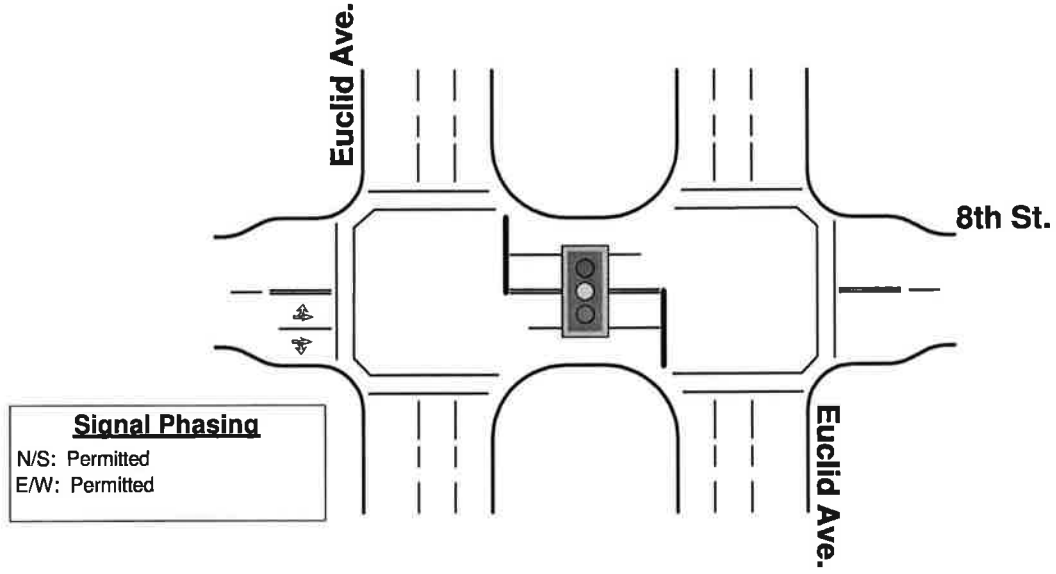

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S

NOT TO SCALE

City of Upland
Euclid Avenue and 8th Street

0602_Euclid_8th

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
N/S: Euclid Avenue
E/W: 8th Street
Weather: Sunny

File Name : UPLEU8AM
Site Code : 9117051
Start Date : 5/6/2009
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
07:00 AM	4	263	11	2	280	32	37	6	2	77	6	208	6	1	221	11	18	13	4	46	624
07:15 AM	2	281	9	2	294	34	58	9	3	104	13	289	5	2	309	20	37	19	5	81	788
07:30 AM	14	310	22	5	351	56	92	21	10	179	15	281	4	3	303	30	55	18	6	109	942
07:45 AM	15	325	49	10	399	33	101	30	4	168	21	254	13	2	290	43	70	52	4	169	1026
Total	35	1179	91	19	1324	155	288	66	19	528	55	1032	28	8	1123	104	180	102	19	405	3380
08:00 AM	13	335	21	7	376	13	54	24	8	99	15	299	11	6	331	22	46	25	5	98	904
08:15 AM	17	279	10	3	309	28	51	16	5	100	20	258	18	2	298	22	50	20	6	98	805
08:30 AM	7	308	17	10	342	28	61	14	8	111	11	258	10	3	282	35	44	24	12	115	850
08:45 AM	11	282	34	4	331	24	48	23	5	100	19	240	10	7	276	15	32	15	1	63	770
Total	48	1204	82	24	1358	93	214	77	26	410	65	1055	49	18	1187	94	172	84	24	374	3329
Grand Total	83	2383	173	43	2682	248	502	143	45	938	120	2087	77	26	2310	198	352	186	43	779	6709
Apprch %	3.1	88.9	6.5	1.6		26.4	53.5	15.2	4.8		5.2	90.3	3.3	1.1		25.4	45.2	23.9	5.5		
Total %	1.2	35.5	2.6	0.6	40	3.7	7.5	2.1	0.7	14	1.8	31.1	1.1	0.4	34.4	3	5.2	2.8	0.6	11.6	
Passenger Vehicles		2304										1991									
% Passenger Vehicles	94	96.7	97.7	95.3	96.6	94.4	94.6	95.8	93.3	94.7	90	95.4	79.2	88.5	94.5	97	96.3	96.8	93	96.4	95.6
Large 2 Axle Vehicles																					
% Large 2 Axle Vehicles	6	2.4	1.7	4.7	2.5	4.4	3	2.8	6.7	3.5	9.2	2.8	19.5	11.5	3.8	3	3.4	3.2	7	3.5	3.2
3 Axle Vehicles																					
% 3 Axle Vehicles	0	0.5	0.6	0	0.5	0	1.6	1.4	0	1.1	0	1.2	0	0	1.1	0	0.3	0	0	0.1	0.7
4+ Axle Trucks	0	9	0	0	9	3	4	0	0	7	1	13	1	0	15	0	0	0	0	0	31
% 4+ Axle Trucks																					

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	14	310	22	5	351	**56**	92	21	**10**	**179**	15	281	4	3	303	30	55	18	**6**	109	942
07:45 AM	15	325	**49**	**10**	**399**	33	**101**	**30**	4	168	**21**	254	13	2	290	**43**	**70**	**52**	4	**169**	**1026**
08:00 AM	13	**335**	21	7	376	13	54	24	8	99	15	**299**	11	**6**	**331**	22	46	25	5	98	904
08:15 AM	**17**	279	10	3	309	28	51	16	5	100	20	258	**18**	2	298	22	50	20	6	98	805
Total Volume	59	1249	102	25	1435	130	298	91	27	546	71	1092	46	13	1222	117	221	115	21	474	3677
% App. Total	4.1	87	7.1	1.7		23.8	54.6	16.7	4.9		5.8	89.4	3.8	1.1		24.7	46.6	24.3	4.4		
PHF	.868	.932	.520	.625	.899	.580	.738	.758	.675	.763	.845	.913	.639	.542	.923	.680	.789	.553	.875	.701	.896

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
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File Name : UPLEU8AM
Site Code : 9117051
Start Date : 5/6/2009
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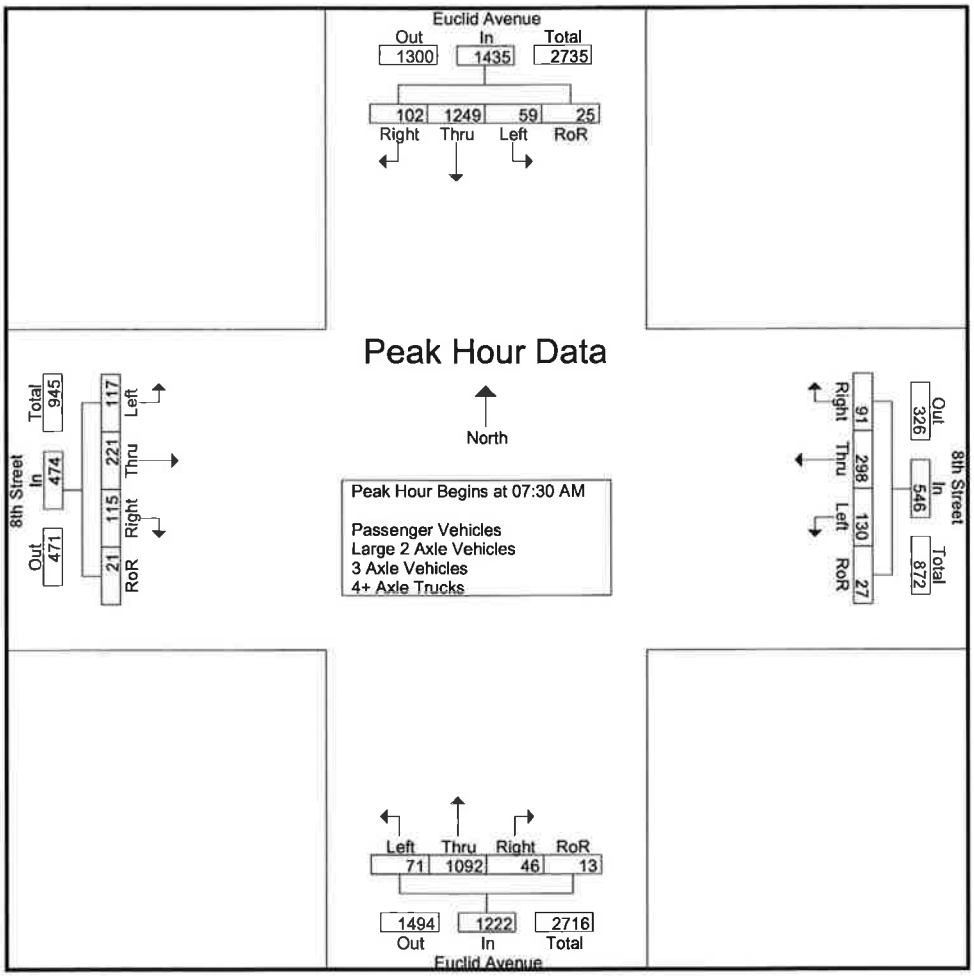

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30 AM					07:30 AM					07:30 AM					07:30 AM				
+0 mins.	14	310	22	5	351	**56**	92	**21**	**10**	**179**	15	281	4	3	303	30	55	18	**6**	109
+15 mins.	15	325	**49**	**10**	**399**	33	**101**	**30**	4	168	**21**	254	13	2	290	**43**	**70**	**52**	4	**169**
+30 mins.	13	**335**	21	7	376	13	54	24	8	99	15	**299**	11	**6**	**331**	22	46	25	5	98
+45 mins.	**17**	279	10	3	309	28	51	16	5	100	20	258	**18**	2	298	22	50	20	6	98
Total Volume	59	1249	102	25	1435	130	298	91	27	546	71	1092	46	13	1222	117	221	115	21	474
% App. Total	4.1	87	7.1	1.7		23.8	54.6	16.7	4.9		5.8	89.4	3.8	1.1		24.7	46.6	24.3	4.4	
PHF	.868	.932	.520	.625	.899	.580	.738	.758	.675	.763	.845	.913	.639	.542	.923	.680	.789	.553	.875	.701

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City of Upland
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File Name : UPLEU8AM
Site Code : 9117051
Start Date : 5/6/2009
Page No : 1

Groups Printed- Passenger Vehicles

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
07:00 AM	4	257	10	2	273	31	35	4	2	72	6	196	6	1	209	11	18	12	4	45	599
07:15 AM	2	273	9	2	286	33	56	9	3	101	13	278	5	2	298	20	35	19	5	79	764
07:30 AM	14	303	22	5	344	55	85	20	9	169	14	267	4	3	288	30	55	18	6	109	910
07:45 AM	15	320	49	10	394	32	99	30	4	165	21	243	12	2	278	43	69	52	4	168	1005
Total	35	1153	90	19	1297	151	275	63	18	507	54	984	27	8	1073	104	177	101	19	401	3278
08:00 AM	10	319	20	7	356	11	49	23	8	91	13	282	8	5	308	21	43	24	5	93	848
08:15 AM	17	263	10	3	293	22	48	14	4	88	12	243	11	2	268	22	48	20	6	96	745
08:30 AM	6	298	16	8	328	28	60	14	7	109	11	252	7	2	272	30	40	20	9	99	808
08:45 AM	10	271	33	4	318	22	43	23	5	93	18	230	8	6	262	15	31	15	1	62	735
Total	43	1151	79	22	1295	83	200	74	24	381	54	1007	34	15	1110	88	162	79	21	350	3136
Grand Total	78	2304	169	41	2592	234	475	137	42	888	108	1991	61	23	2183	192	339	180	40	751	6414
Apprch %	3	88.9	6.5	1.6		26.4	53.5	15.4	4.7		4.9	91.2	2.8	1.1		25.6	45.1	24	5.3		
Total %	1.2	35.9	2.6	0.6	40.4	3.6	7.4	2.1	0.7	13.8	1.7	31	1	0.4	34	3	5.3	2.8	0.6	11.7	

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	14	303	22	5	344	**55**	85	20	**9**	**169**	14	267	4	3	288	30	55	18	**6**	109	910
07:45 AM	15	**320**	**49**	**10**	**394**	32	**99**	**30**	4	165	**21**	243	**12**	2	278	**43**	**69**	**52**	4	**168**	**1005**
08:00 AM	10	319	20	7	356	11	49	23	8	91	13	**282**	8	**5**	**308**	21	43	24	5	93	848
08:15 AM	**17**	263	10	3	293	22	48	14	4	88	12	243	11	2	268	22	48	20	6	96	745
Total Volume	56	1205	101	25	1387	120	281	87	25	513	60	1035	35	12	1142	116	215	114	21	466	3508
% App. Total	4	86.9	7.3	1.8		23.4	54.8	17	4.9		5.3	90.6	3.1	1.1		24.9	46.1	24.5	4.5		
PHF	.824	.941	.515	.625	.880	.545	.710	.725	.694	.759	.714	.918	.729	.600	.927	.674	.779	.548	.875	.693	.873

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
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E/W: 8th Street
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File Name : UPLEU8AM
Site Code : 9117051
Start Date : 5/6/2009
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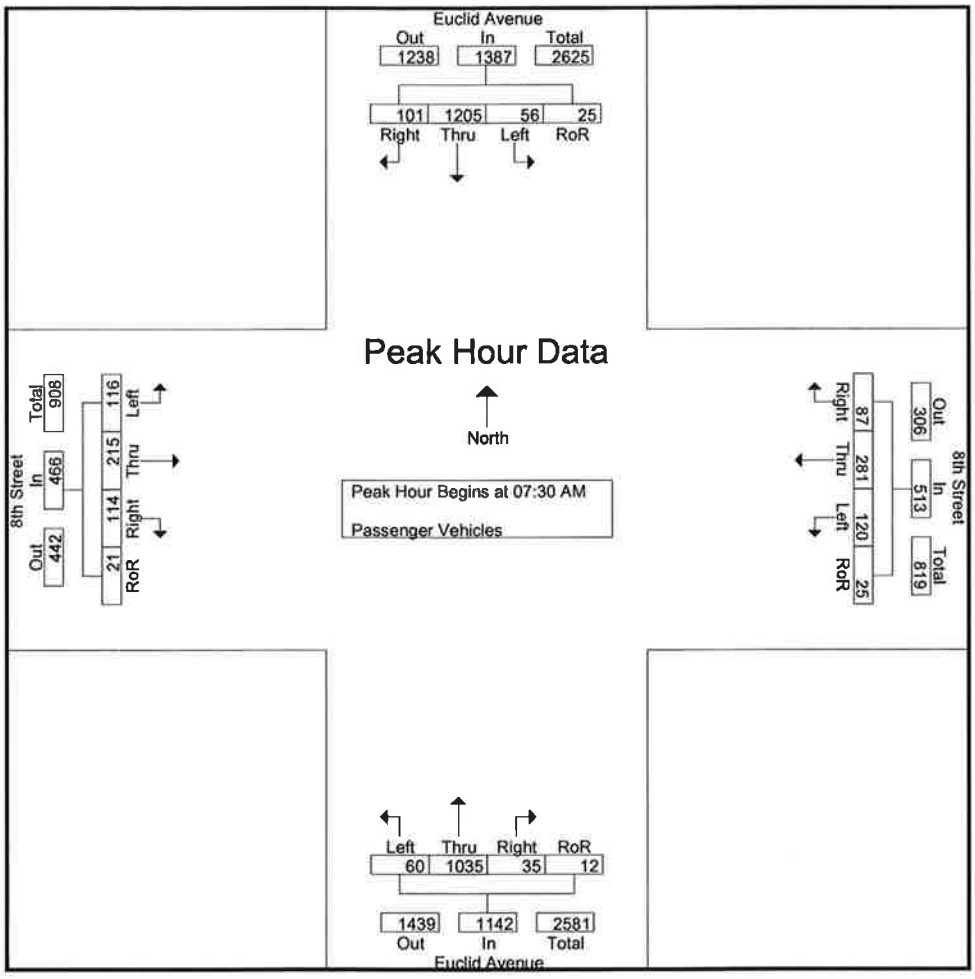

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30 AM					07:30 AM					07:30 AM					07:30 AM				
+0 mins.	14	303	22	5	344	**55**	85	20	**9**	**169**	14	267	4	3	288	30	55	18	**6**	109
+15 mins.	15	**320**	**49**	**10**	**394**	32	**99**	**30**	4	165	**21**	243	**12**	2	278	**43**	**69**	**52**	4	**168**
+30 mins.	10	319	20	7	356	11	49	23	8	91	13	**282**	8	**5**	**308**	21	43	24	5	93
+45 mins.	**17**	263	10	3	293	22	48	14	4	88	12	243	11	2	268	22	48	20	6	96
Total Volume	56	1205	101	25	1387	120	281	87	25	513	60	1035	35	12	1142	116	215	114	21	466
% App. Total	4	86.9	7.3	1.8		23.4	54.8	17	4.9		5.3	90.6	3.1	1.1		24.9	46.1	24.5	4.5	
PHF	.824	.941	.515	.625	.880	.545	.710	.725	.694	.759	.714	.918	.729	.600	.927	.674	.779	.548	.875	.693

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
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File Name : UPLEU8AM
Site Code : 9117051
Start Date : 5/6/2009
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Groups Printed- Large 2 Axle Vehicles

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
07:00 AM	0	5	0	0	5	1	2	0	0	3	0	6	0	0	6	0	0	1	0	1	15
07:15 AM	0	5	0	0	5	0	2	0	0	2	0	4	0	0	4	0	2	0	0	2	13
07:30 AM	0	5	0	0	5	1	2	1	1	5	0	6	0	0	6	0	0	0	0	0	16
07:45 AM	0	4	0	0	4	1	0	0	0	1	0	4	0	0	4	0	1	0	0	1	10
Total	0	19	0	0	19	3	6	1	1	11	0	20	0	0	20	0	3	1	0	4	54
08:00 AM	3	15	1	0	19	1	3	1	0	5	2	12	3	1	18	1	2	1	0	4	46
08:15 AM	0	12	0	0	12	5	2	2	1	10	8	14	7	0	29	0	2	0	0	2	53
08:30 AM	1	6	1	2	10	0	1	0	1	2	0	5	3	1	9	5	4	4	3	16	37
08:45 AM	1	6	1	0	8	2	3	0	0	5	1	7	2	1	11	0	1	0	0	1	25
Total	5	39	3	2	49	8	9	3	2	22	11	38	15	3	67	6	9	5	3	23	161
Grand Total	5	58	3	2	68	11	15	4	3	33	11	58	15	3	87	6	12	6	3	27	215
Apprch %	7.4	85.3	4.4	2.9		33.3	45.5	12.1	9.1		12.6	66.7	17.2	3.4		22.2	44.4	22.2	11.1		
Total %	2.3	27	1.4	0.9	31.6	5.1	7	1.9	1.4	15.3	5.1	27	7	1.4	40.5	2.8	5.6	2.8	1.4	12.6	

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	0	5	0	0	5	1	2	1	1	5	0	6	0	0	6	0	0	0	0	0	16
07:45 AM	0	4	0	0	4	1	0	0	0	1	0	4	0	0	4	0	1	0	0	1	10
08:00 AM	3	15	1	0	19	1	3	1	0	5	2	12	3	1	18	1	2	1	0	4	46
08:15 AM	0	12	0	0	12	5	2	2	1	10	8	14	7	0	29	0	2	0	0	2	53
Total Volume	3	36	1	0	40	8	7	4	2	21	10	36	10	1	57	1	5	1	0	7	125
% App. Total	7.5	90	2.5	0		38.1	33.3	19	9.5		17.5	63.2	17.5	1.8		14.3	71.4	14.3	0		
PHF	.250	.600	.250	.000	.526	.400	.583	.500	.500	.525	.313	.643	.357	.250	.491	.250	.625	.250	.000	.438	.590

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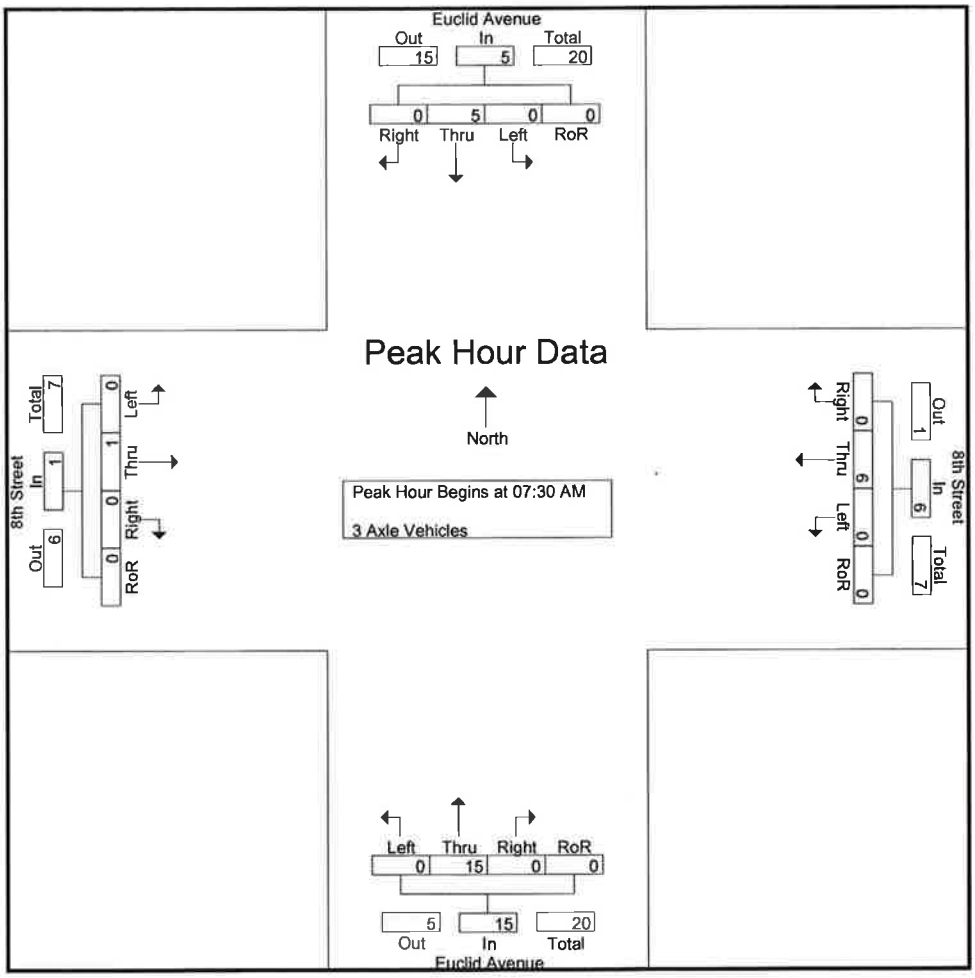

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30 AM					07:30 AM					07:30 AM					07:30 AM				
+0 mins.	0	1	0	0	1	0	**3**	0	0	**3**	0	4	0	0	4	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	2	0	0	2	0	**6**	0	0	**6**	0	0	0	0	0
+30 mins.	0	1	0	0	1	0	1	0	0	1	0	4	0	0	4	0	**1**	0	0	**1**
+45 mins.	0	**3**	0	0	**3**	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
Total Volume	0	5	0	0	5	0	6	0	0	6	0	15	0	0	15	0	1	0	0	1
% App. Total	0	100	0	0		0	100	0	0		0	100	0	0		0	100	0	0	
PHF	.000	.417	.000	.000	.417	.000	.500	.000	.000	.500	.000	.625	.000	.000	.625	.000	.250	.000	.000	.250

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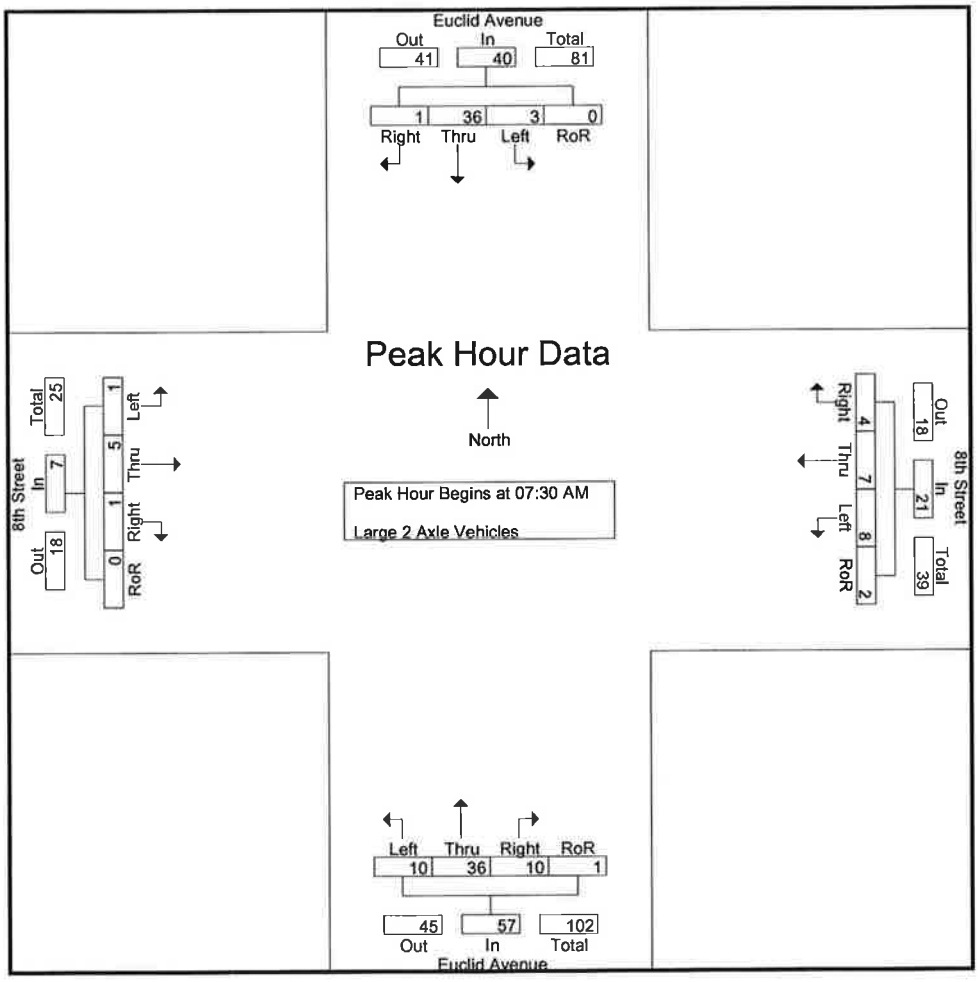

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30 AM					07:30 AM					07:30 AM					07:30 AM				
+0 mins.	0	5	0	0	5	1	2	1	**1**	5	0	6	0	0	6	0	0	0	0	0
+15 mins.	0	4	0	0	4	1	0	0	0	1	0	4	0	0	4	0	1	0	0	1
+30 mins.	**3**	**15**	**1**	0	**19**	1	**3**	1	0	5	2	12	3	**1**	18	**1**	**2**	**1**	0	**4**
+45 mins.	0	12	0	0	12	**5**	2	**2**	1	**10**	**8**	**14**	**7**	0	**29**	0	2	0	0	2
Total Volume	3	36	1	0	40	8	7	4	2	21	10	36	10	1	57	1	5	1	0	7
% App. Total	7.5	90	2.5	0		38.1	33.3	19	9.5		17.5	63.2	17.5	1.8		14.3	71.4	14.3	0	
PHF	.250	.600	.250	.000	.526	.400	.583	.500	.500	.525	.313	.643	.357	.250	.491	.250	.625	.250	.000	.438

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File Name : UPLEU8AM
Site Code : 9117051
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Page No : 1

Groups Printed- 3 Axle Vehicles

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
07:00 AM	0	0	1	0	1	0	0	2	0	2	0	3	0	0	3	0	0	0	0	0	6
07:15 AM	0	1	0	0	1	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	6
07:30 AM	0	1	0	0	1	0	3	0	0	3	0	4	0	0	4	0	0	0	0	0	8
07:45 AM	0	0	0	0	0	0	2	0	0	2	0	6	0	0	6	0	0	0	0	0	8
Total	0	2	1	0	3	0	5	2	0	7	0	18	0	0	18	0	0	0	0	0	28
08:00 AM	0	1	0	0	1	0	1	0	0	1	0	4	0	0	4	0	1	0	0	1	7
08:15 AM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
08:30 AM	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
08:45 AM	0	4	0	0	4	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	7
Total	0	10	0	0	10	0	3	0	0	3	0	7	0	0	7	0	1	0	0	1	21
Grand Total	0	12	1	0	13	0	8	2	0	10	0	25	0	0	25	0	1	0	0	1	49
Apprch %	0	92.3	7.7	0		0	80	20	0		0	100	0	0		0	100	0	0		
Total %	0	24.5	2	0	26.5	0	16.3	4.1	0	20.4	0	51	0	0	51	0	2	0	0	2	

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	0	1	0	0	1	0	**3**	0	0	**3**	0	4	0	0	4	0	0	0	0	0	**8**
07:45 AM	0	0	0	0	0	0	2	0	0	2	0	**6**	0	0	**6**	0	0	0	0	0	8
08:00 AM	0	1	0	0	1	0	1	0	0	1	0	4	0	0	4	0	**1**	0	0	**1**	7
08:15 AM	0	**3**	0	0	**3**	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
Total Volume	0	5	0	0	5	0	6	0	0	6	0	15	0	0	15	0	1	0	0	1	27
% App. Total	0	100	0	0		0	100	0	0		0	100	0	0		0	100	0	0		
PHF	.000	.417	.000	.000	.417	.000	.500	.000	.000	.500	.000	.625	.000	.000	.625	.000	.250	.000	.000	.250	.844

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
N/S: Euclid Avenue
E/W: 8th Street
Weather: Sunny

File Name : UPLEU8AM
Site Code : 9117051
Start Date : 5/6/2009
Page No : 1

Groups Printed- 4+ Axle Trucks

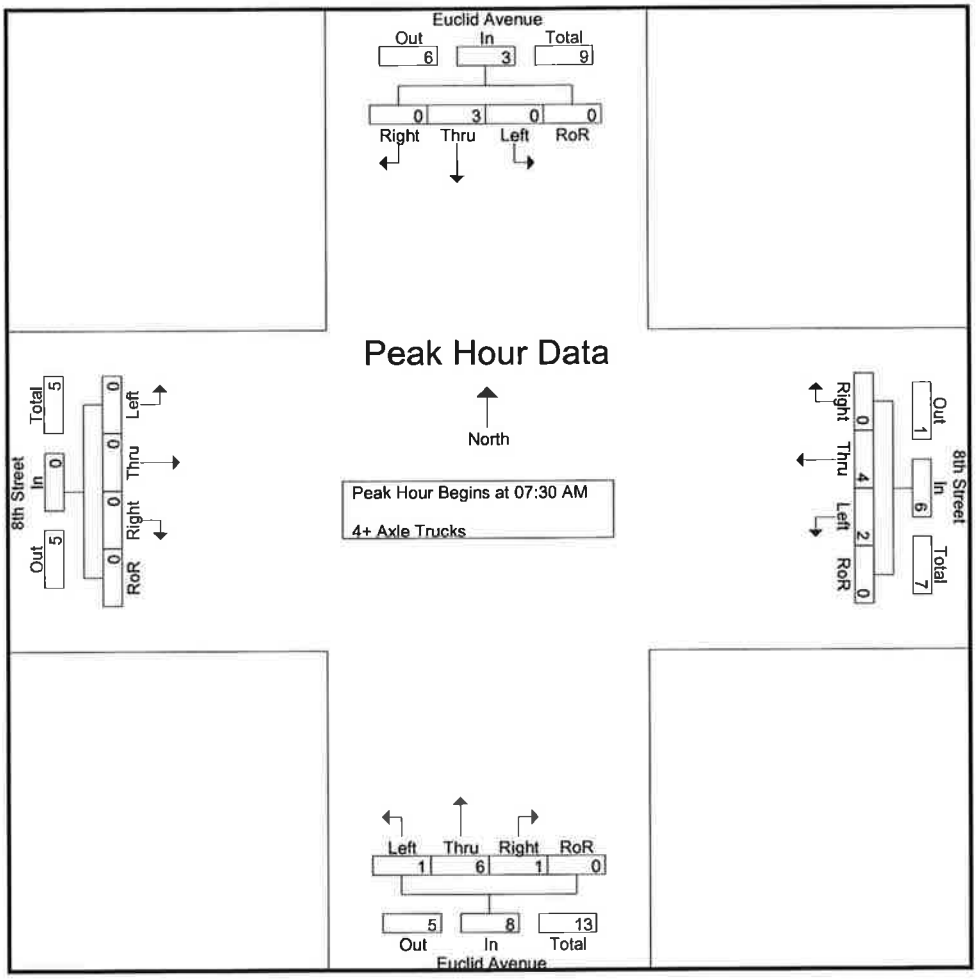
	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
07:00 AM	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
07:15 AM	0	2	0	0	2	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	5
07:30 AM	0	1	0	0	1	0	2	0	0	2	1	4	0	0	5	0	0	0	0	0	8
07:45 AM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	3
Total	0	5	0	0	5	1	2	0	0	3	1	10	1	0	12	0	0	0	0	0	20
08:00 AM	0	0	0	0	0	1	1	0	0	2	0	1	0	0	1	0	0	0	0	0	3
08:15 AM	0	1	0	0	1	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3
08:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
08:45 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
Total	0	4	0	0	4	2	2	0	0	4	0	3	0	0	3	0	0	0	0	0	11
Grand Total	0	9	0	0	9	3	4	0	0	7	1	13	1	0	15	0	0	0	0	0	31
Apprch %	0	100	0	0		42.9	57.1	0	0		6.7	86.7	6.7	0		0	0	0	0		
Total %	0	29	0	0	29	9.7	12.9	0	0	22.6	3.2	41.9	3.2	0	48.4	0	0	0	0	0	

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	0	**1**	0	0	**1**	0	**2**	0	0	**2**	**1**	**4**	0	0	**5**	0	0	0	0	0	**8**
07:45 AM	0	1	0	0	1	0	0	0	0	0	0	1	**1**	0	2	0	0	0	0	0	3
08:00 AM	0	0	0	0	0	**1**	1	0	0	2	0	1	0	0	1	0	0	0	0	0	3
08:15 AM	0	1	0	0	1	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3
Total Volume	0	3	0	0	3	2	4	0	0	6	1	6	1	0	8	0	0	0	0	0	17
% App. Total	0	100	0	0		33.3	66.7	0	0		12.5	75	12.5	0		0	0	0	0		
PHF	.000	.750	.000	.000	.750	.500	.500	.000	.000	.750	.250	.375	.250	.000	.400	.000	.000	.000	.000	.000	.531

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
N/S: Euclid Avenue
E/W: 8th Street
Weather: Sunny

File Name : UPLEU8AM
Site Code : 9117051
Start Date : 5/6/2009
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30 AM					07:30 AM					07:30 AM					07:30 AM				
+0 mins.	0	1	0	0	1	0	2	0	0	2	1	4	0	0	5	0	0	0	0	0
+15 mins.	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0
+30 mins.	0	0	0	0	0	1	1	0	0	2	0	1	0	0	1	0	0	0	0	0
+45 mins.	0	1	0	0	1	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0
Total Volume	0	3	0	0	3	2	4	0	0	6	1	6	1	0	8	0	0	0	0	0
% App. Total	0	100	0	0		33.3	66.7	0	0		12.5	75	12.5	0		0	0	0	0	
PHF	.000	.750	.000	.000	.750	.500	.500	.000	.000	.750	.250	.375	.250	.000	.400	.000	.000	.000	.000	.000

Counts Unlimited Inc.
25286 Jaclyn Avenue
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951-485-7934

City of Upland
N/S: Euclid Avenue
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File Name : UPLEU8PM
Site Code : 9117051
Start Date : 5/6/2009
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

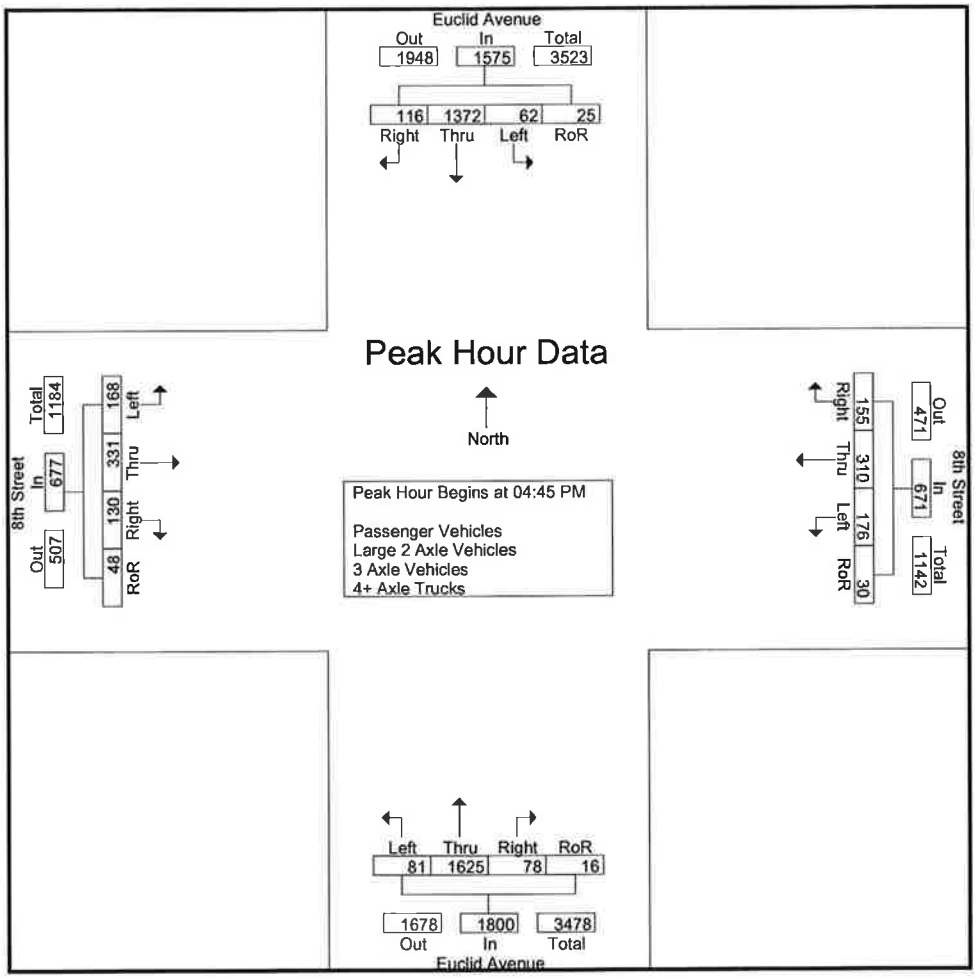
	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
04:00 PM	17	286	14	1	318	25	65	19	2	111	17	328	16	2	363	39	67	37	1	144	936
04:15 PM	10	232	27	2	271	44	66	23	3	136	13	347	16	2	378	52	82	33	3	170	955
04:30 PM	13	308	21	2	344	25	69	23	2	119	10	346	12	3	371	40	57	38	5	140	974
04:45 PM	12	300	25	6	343	38	91	38	9	176	10	376	20	3	409	32	84	38	14	168	1096
Total	52	1126	87	11	1276	132	291	103	16	542	50	1397	64	10	1521	163	290	146	23	622	3961
05:00 PM	9	384	26	1	420	38	54	35	5	132	48	417	12	1	478	27	73	32	3	135	1165
05:15 PM	21	358	37	8	424	32	69	36	10	147	14	451	25	3	493	50	84	38	18	190	1254
05:30 PM	20	330	28	10	388	68	96	46	6	216	9	381	21	9	420	59	90	22	13	184	1208
05:45 PM	18	297	23	2	340	26	80	30	7	143	21	324	13	5	363	34	118	28	10	190	1036
Total	68	1369	114	21	1572	164	299	147	28	638	92	1573	71	18	1754	170	365	120	44	699	4663
Grand Total	120	2495	201	32	2848	296	590	250	44	1180	142	2970	135	28	3275	333	655	266	67	1321	8624
Apprch %	4.2	87.6	7.1	1.1		25.1	50	21.2	3.7		4.3	90.7	4.1	0.9		25.2	49.6	20.1	5.1		
Total %	1.4	28.9	2.3	0.4	33	3.4	6.8	2.9	0.5	13.7	1.6	34.4	1.6	0.3	38	3.9	7.6	3.1	0.8	15.3	
Passenger Vehicles		2438										2918									
% Passenger Vehicles	96.7	97.7	98.5	100	97.8	97.6	99	99.6	97.7	98.7	99.3	98.2	93.3	100	98.1	98.5	98.9	97	98.5	98.4	98.1
Large 2 Axle Vehicles																					
% Large 2 Axle Vehicles	3.3	1.6	1.5	0	1.6	1	0.8	0	0	0.7	0.7	1.4	3.7	0	1.4	1.2	0.8	2.6	1.5	1.3	1.4
3 Axle Vehicles	0	12	0	0	12	0	1	1	1	3	0	5	0	0	5	0	0	0	0	0	20
% 3 Axle Vehicles	0	0.5	0	0	0.4	0	0.2	0.4	2.3	0.3	0	0.2	0	0	0.2	0	0	0	0	0	0.2
4+ Axle Trucks	0	6	0	0	6	4	0	0	0	4	0	6	4	0	10	1	2	1	0	4	24
% 4+ Axle Trucks																					

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	12	300	25	6	343	38	91	38	9	176	10	376	20	3	409	32	84	**38**	14	168	1096
05:00 PM	9	**384**	26	1	420	38	54	35	5	132	**48**	417	12	1	478	27	73	32	3	135	1165
05:15 PM	**21**	358	**37**	8	**424**	32	69	36	**10**	147	14	**451**	**25**	3	**493**	50	84	38	**18**	**190**	**1254**
05:30 PM	20	330	28	**10**	388	**68**	**96**	**46**	6	**216**	9	381	21	**9**	420	**59**	**90**	**22**	13	184	1208
Total Volume	62	1372	116	25	1575	176	310	155	30	671	81	1625	78	16	1800	168	331	130	48	677	4723
% App. Total	3.9	87.1	7.4	1.6		26.2	46.2	23.1	4.5		4.5	90.3	4.3	0.9		24.8	48.9	19.2	7.1		
PHF	.738	.893	.784	.625	.929	.647	.807	.842	.750	.777	.422	.901	.780	.444	.913	.712	.919	.855	.667	.891	.942

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
N/S: Euclid Avenue
E/W: 8th Street
Weather: Sunny

File Name : UPLEU8PM
Site Code : 9117051
Start Date : 5/6/2009
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:45 PM					04:45 PM					04:45 PM					05:00 PM				
+0 mins.	12	300	25	6	343	38	91	38	9	176	10	376	20	3	409	27	73	32	3	135
+15 mins.	9	**384**	26	1	420	38	54	35	5	132	**48**	417	12	1	478	50	84	**38**	**18**	**190**
+30 mins.	**21**	358	**37**	8	**424**	32	69	36	**10**	147	14	**451**	**25**	3	**493**	**59**	90	22	13	184
+45 mins.	20	330	28	**10**	388	**68**	**96**	**46**	6	**216**	9	381	21	**9**	420	34	**118**	28	10	190
Total Volume	62	1372	116	25	1575	176	310	155	30	671	81	1625	78	16	1800	170	365	120	44	699
% App. Total	3.9	87.1	7.4	1.6		26.2	46.2	23.1	4.5		4.5	90.3	4.3	0.9		24.3	52.2	17.2	6.3	
PHF	.738	.893	.784	.625	.929	.647	.807	.842	.750	.777	.422	.901	.780	.444	.913	.720	.773	.789	.611	.920

Counts Unlimited Inc.
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File Name : UPLEU8PM
Site Code : 9117051
Start Date : 5/6/2009
Page No : 1

Groups Printed- Passenger Vehicles

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
04:00 PM	17	278	14	1	310	25	64	19	2	110	17	322	16	2	357	38	67	35	1	141	918
04:15 PM	10	227	27	2	266	44	64	23	3	134	13	345	15	2	375	51	82	32	3	168	943
04:30 PM	13	297	20	2	332	25	69	23	2	119	9	337	11	3	360	39	55	35	5	134	945
04:45 PM	12	291	25	6	334	37	89	38	9	173	10	367	18	3	398	31	82	37	13	163	1068
Total	52	1093	86	11	1242	131	286	103	16	536	49	1371	60	10	1490	159	286	139	22	606	3874
05:00 PM	9	375	25	1	410	37	54	34	4	129	48	407	11	1	467	27	73	32	3	135	1141
05:15 PM	18	355	36	8	417	30	69	36	10	145	14	441	24	3	482	49	83	37	18	187	1231
05:30 PM	20	323	28	10	381	67	95	46	6	214	9	378	19	9	415	59	89	22	13	183	1193
05:45 PM	17	292	23	2	334	24	80	30	7	141	21	321	12	5	359	34	117	28	10	189	1023
Total	64	1345	112	21	1542	158	298	146	27	629	92	1547	66	18	1723	169	362	119	44	694	4588
Grand Total	116	2438	198	32	2784	289	584	249	43	1165	141	2918	126	28	3213	328	648	258	66	1300	8462
Apprch %	4.2	87.6	7.1	1.1		24.8	50.1	21.4	3.7		4.4	90.8	3.9	0.9		25.2	49.8	19.8	5.1		
Total %	1.4	28.8	2.3	0.4	32.9	3.4	6.9	2.9	0.5	13.8	1.7	34.5	1.5	0.3	38	3.9	7.7	3	0.8	15.4	

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	12	291	25	6	334	37	89	38	9	173	10	367	18	3	398	31	82	**37**	13	**163**	1068
05:00 PM	9	**375**	25	1	410	37	54	34	4	129	**48**	407	11	1	467	27	73	32	3	135	1141
05:15 PM	18	355	**36**	8	**417**	30	69	36	**10**	145	14	**441**	**24**	3	**482**	49	83	37	**18**	**187**	**1231**
05:30 PM	**20**	323	28	**10**	381	**67**	**95**	**46**	6	**214**	9	378	19	**9**	415	**59**	**89**	22	13	183	1193
Total Volume	59	1344	114	25	1542	171	307	154	29	661	81	1593	72	16	1762	166	327	128	47	668	4633
% App. Total	3.8	87.2	7.4	1.6		25.9	46.4	23.3	4.4		4.6	90.4	4.1	0.9		24.9	49	19.2	7		
PHF	.738	.896	.792	.625	.924	.638	.808	.837	.725	.772	.422	.903	.750	.444	.914	.703	.919	.865	.653	.893	.941

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
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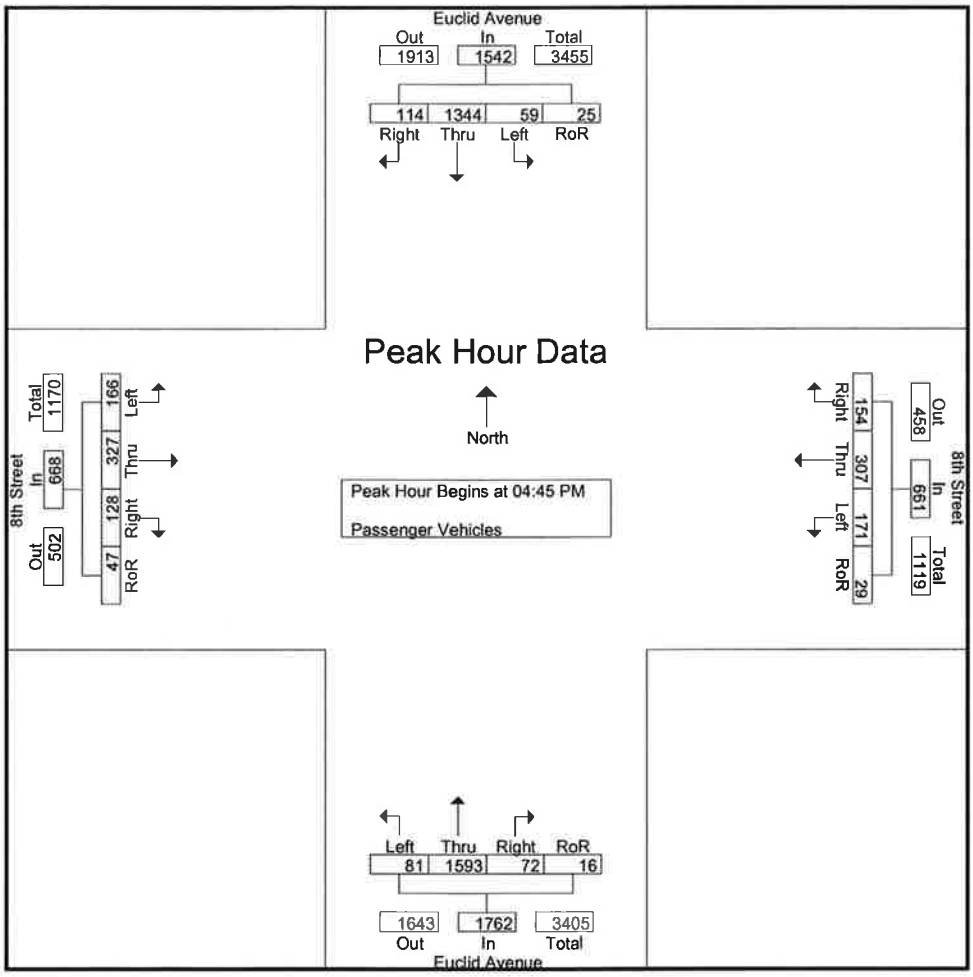

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:45 PM					04:45 PM					04:45 PM					05:00 PM				
+0 mins.	12	291	25	6	334	37	89	38	9	173	10	367	18	3	398	27	73	32	3	135
+15 mins.	9	**375**	25	1	410	37	54	34	4	129	**48**	407	11	1	467	49	83	**37**	**18**	187
+30 mins.	18	355	**36**	8	**417**	30	69	36	**10**	145	14	**441**	**24**	3	**482**	**59**	89	22	13	183
+45 mins.	**20**	323	28	**10**	381	**67**	**95**	**46**	6	**214**	9	378	19	**9**	415	34	**117**	28	10	**189**
Total Volume	59	1344	114	25	1542	171	307	154	29	661	81	1593	72	16	1762	169	362	119	44	694
% App. Total	3.8	87.2	7.4	1.6		25.9	46.4	23.3	4.4		4.6	90.4	4.1	0.9		24.4	52.2	17.1	6.3	
PHF	.738	.896	.792	.625	.924	.638	.808	.837	.725	.772	.422	.903	.750	.444	.914	.716	.774	.804	.611	.918

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File Name : UPLEU8PM
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Start Date : 5/6/2009
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Groups Printed- Large 2 Axle Vehicles

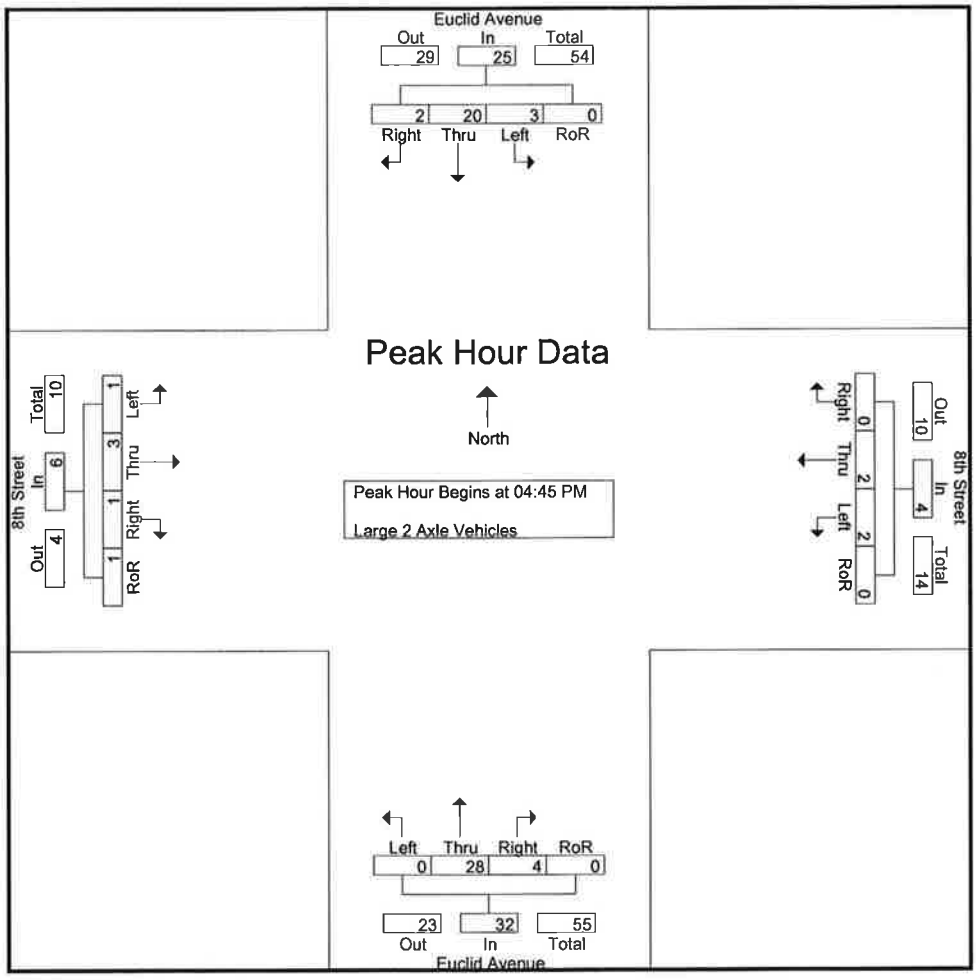
	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
04:00 PM	0	5	0	0	5	0	1	0	0	1	0	3	0	0	3	1	0	2	0	3	12
04:15 PM	0	4	0	0	4	0	2	0	0	2	0	1	1	0	2	1	0	1	0	2	10
04:30 PM	0	6	1	0	7	0	0	0	0	0	1	6	0	0	7	1	2	3	0	6	20
04:45 PM	0	4	0	0	4	1	1	0	0	2	0	9	2	0	11	1	2	1	1	5	22
Total	0	19	1	0	20	1	4	0	0	5	1	19	3	0	23	4	4	7	1	16	64
05:00 PM	0	7	1	0	8	0	0	0	0	0	0	9	1	0	10	0	0	0	0	0	18
05:15 PM	3	3	1	0	7	1	0	0	0	1	0	8	0	0	8	0	0	0	0	0	16
05:30 PM	0	6	0	0	6	0	1	0	0	1	0	2	1	0	3	0	1	0	0	1	11
05:45 PM	1	4	0	0	5	1	0	0	0	1	0	3	0	0	3	0	0	0	0	0	9
Total	4	20	2	0	26	2	1	0	0	3	0	22	2	0	24	0	1	0	0	1	54
Grand Total	4	39	3	0	46	3	5	0	0	8	1	41	5	0	47	4	5	7	1	17	118
Apprch %	8.7	84.8	6.5	0		37.5	62.5	0	0		2.1	87.2	10.6	0		23.5	29.4	41.2	5.9		
Total %	3.4	33.1	2.5	0	39	2.5	4.2	0	0	6.8	0.8	34.7	4.2	0	39.8	3.4	4.2	5.9	0.8	14.4	

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	0	4	0	0	4	**1**	**1**	0	0	**2**	0	**9**	**2**	0	**11**	**1**	**2**	**1**	**1**	**5**	**22**
05:00 PM	0	**7**	**1**	0	**8**	0	0	0	0	0	0	9	1	0	10	0	0	0	0	0	18
05:15 PM	**3**	3	1	0	7	1	0	0	0	1	0	8	0	0	8	0	0	0	0	0	16
05:30 PM	0	6	0	0	6	0	1	0	0	1	0	2	1	0	3	0	1	0	0	1	11
Total Volume	3	20	2	0	25	2	2	0	0	4	0	28	4	0	32	1	3	1	1	6	67
% App. Total	12	80	8	0		50	50	0	0		0	87.5	12.5	0		16.7	50	16.7	16.7		
PHF	.250	.714	.500	.000	.781	.500	.500	.000	.000	.500	.000	.778	.500	.000	.727	.250	.375	.250	.250	.300	.761

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
N/S: Euclid Avenue
E/W: 8th Street
Weather: Sunny

File Name : UPLEU8PM
Site Code : 9117051
Start Date : 5/6/2009
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:45 PM					04:45 PM					04:45 PM					04:45 PM				
+0 mins.	0	4	0	0	**4**	**1**	**1**	0	0	**2**	0	**9**	**2**	0	**11**	**1**	**2**	**1**	**1**	**5**
+15 mins.	0	**7**	**1**	0	**8**	0	0	0	0	0	0	9	1	0	10	0	0	0	0	0
+30 mins.	**3**	3	1	0	7	1	0	0	0	1	0	8	0	0	8	0	0	0	0	0
+45 mins.	0	6	0	0	6	0	1	0	0	1	0	2	1	0	3	0	1	0	0	1
Total Volume	3	20	2	0	25	2	2	0	0	4	0	28	4	0	32	1	3	1	1	6
% App. Total	12	80	8	0		50	50	0	0		0	87.5	12.5	0		16.7	50	16.7	16.7	
PHF	.250	.714	.500	.000	.781	.500	.500	.000	.000	.500	.000	.778	.500	.000	.727	.250	.375	.250	.250	.300

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
951-485-7934

City of Upland
N/S: Euclid Avenue
E/W: 8th Street
Weather: Sunny

File Name : UPLEU8PM
Site Code : 9117051
Start Date : 5/6/2009
Page No : 1

Groups Printed- 3 Axle Vehicles

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Left	Thru	Right	RoR	App. Total	Int. Total
04:00 PM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
04:30 PM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
04:45 PM	0	4	0	0	4	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	5
Total	0	11	0	0	11	0	1	0	0	1	0	4	0	0	4	0	0	0	0	0	16
05:00 PM	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
05:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	1	1	2	0	1	0	0	1	0	0	0	0	0	4
Grand Total	0	12	0	0	12	0	1	1	1	3	0	5	0	0	5	0	0	0	0	0	20
Apprch %	0	100	0	0		0	33.3	33.3	33.3		0	100	0	0		0	0	0	0		
Total %	0	60	0	0	60	0	5	5	5	15	0	25	0	0	25	0	0	0	0	0	

	Euclid Avenue Southbound					8th Street Westbound					Euclid Avenue Northbound					8th Street Eastbound					
Start Time	Left	Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total		Thru	Right	RoR	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	0	**4**	0	0	**4**	0	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	**5**
05:00 PM	0	0	0	0	0	0	0	**1**	**1**	**2**	0	0	0	0	0	0	0	0	0	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0	1
Total Volume	0	4	0	0	4	0	1	1	1	3	0	1	0	0	1	0	0	0	0	0	8
% App. Total	0	100	0	0		0	33.3	33.3	33.3		0	100	0	0		0	0	0	0		
PHF	.000	.250	.000	.000	.250	.000	.250	.250	.250	.375	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.400

Counts Unlimited Inc.
25286 Jaclyn Avenue
Moreno Valley, CA 92557
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File Name : UPLEU8PM
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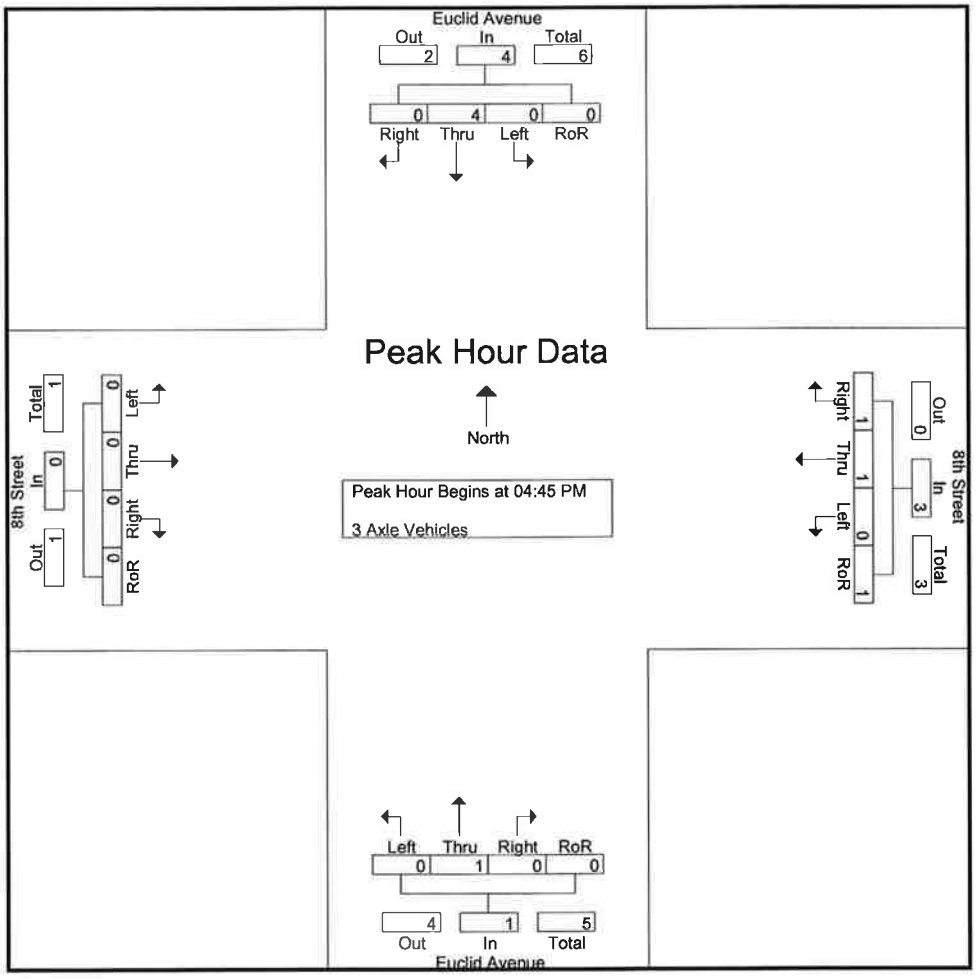
Page No : 2



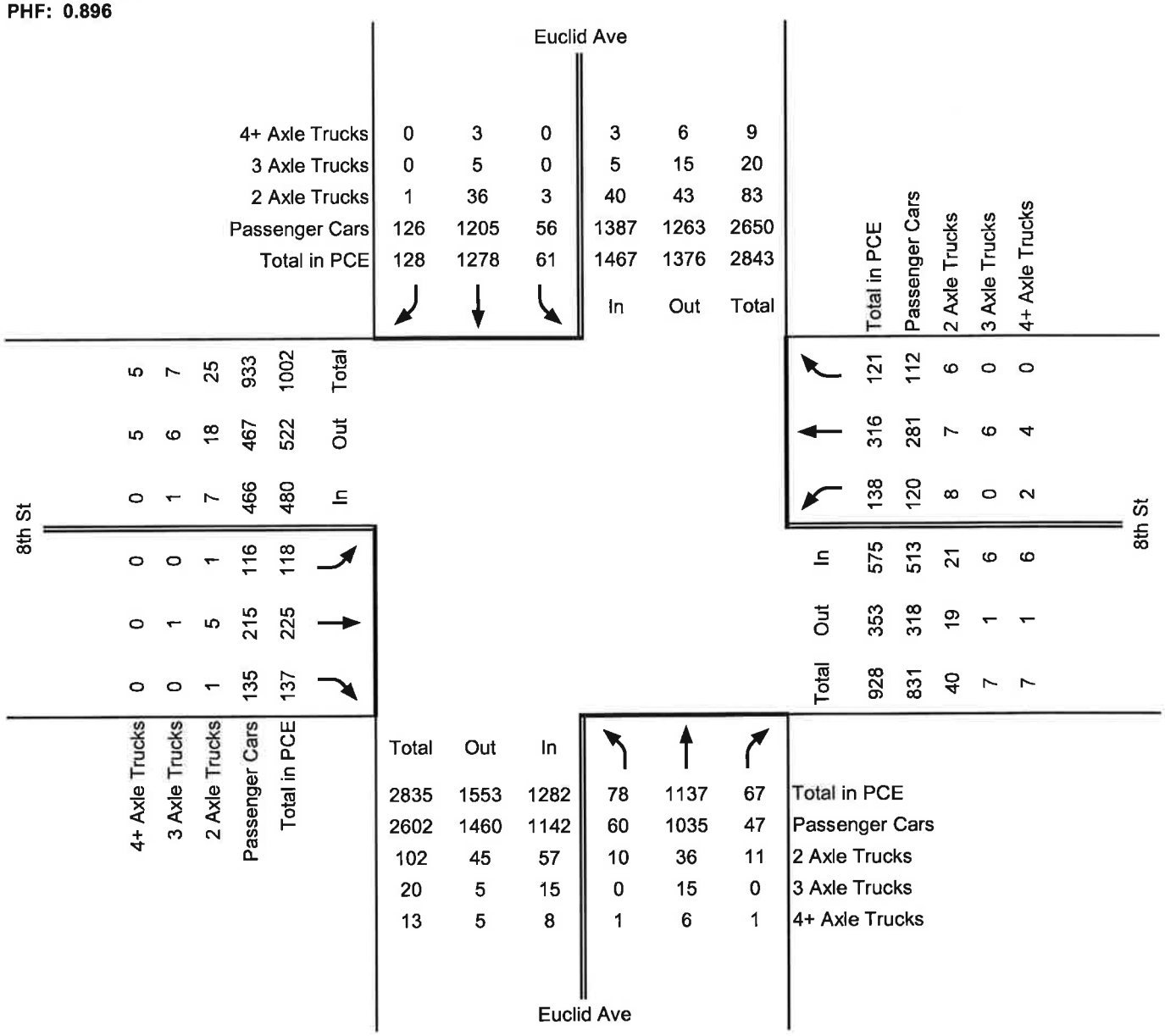
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:45 PM					04:45 PM					04:45 PM					04:45 PM				
+0 mins.	0	**4**	0	0	4	0	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	**1**	**1**	**2**	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	**1**	0	0	0	0	0
Total Volume	0	4	0	0	4	0	1	1	1	3	0	1	0	0	1	0	0	0	0	0
% App. Total	0	100	0	0		0	33.3	33.3	33.3		0	100	0	0		0	0	0	0	
PHF	.000	.250	.000	.000	.250	.000	.250	.250	.250	.375	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000

6. Euclid Ave / 8th St

Count Date: 5/6/2009
Peak Hour: AM
PHF: 0.896



PCE Factors

Passenger Cars = 1 PCE

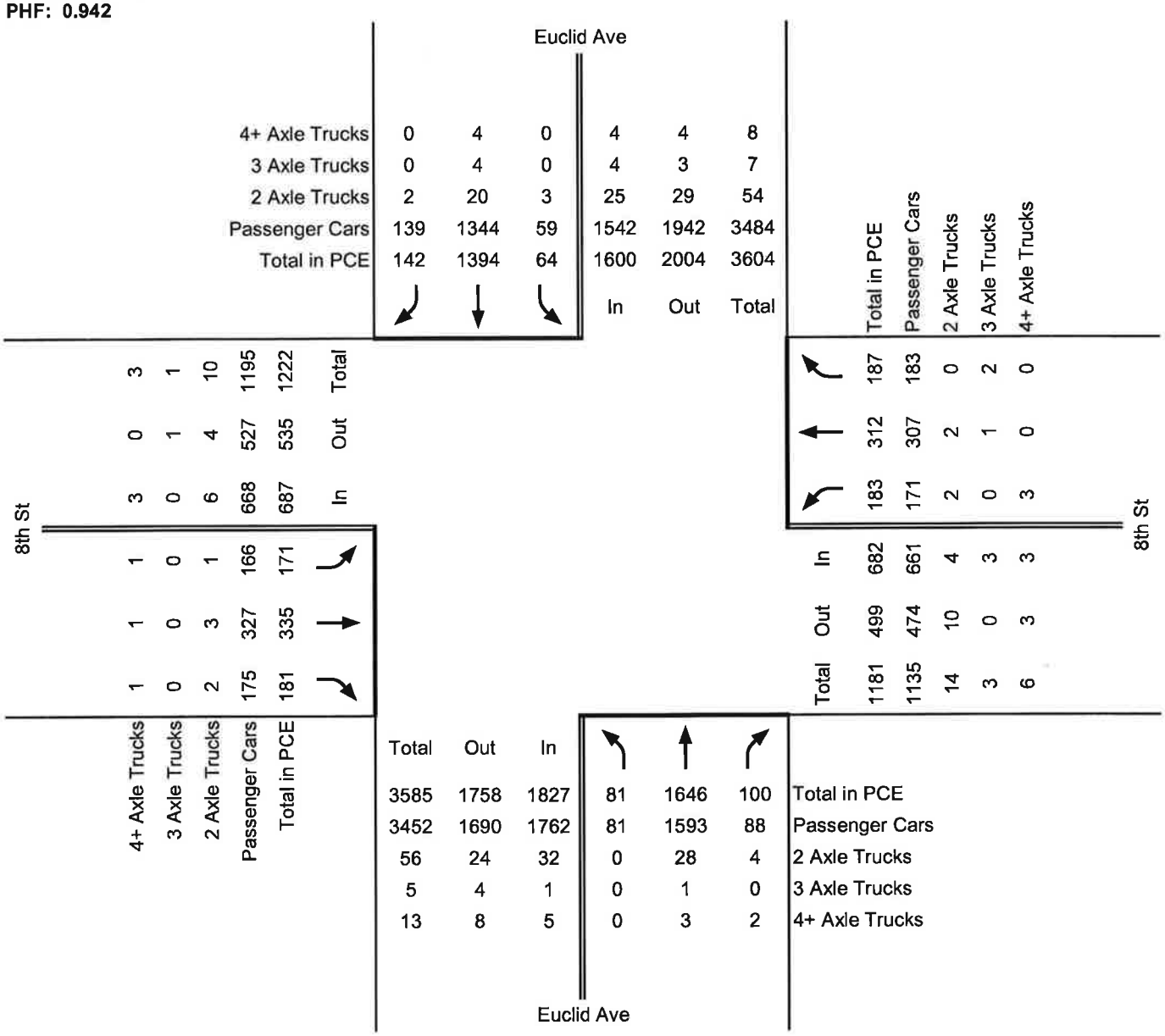
2 Axle Trucks = 1.5 PCE

3 Axle Trucks = 2 PCE

4+ Axle Trucks = 3 PCE

6. Euclid Ave / 8th St

Count Date: 5/6/2009
Peak Hour: PM
PHF: 0.942



PCE Factors

Passenger Cars = 1 PCE

2 Axle Trucks = 1.5 PCE

3 Axle Trucks = 2 PCE

4+ Axle Trucks = 3 PCE

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	343	137	138	394	0	0	0	0	61	1278	128
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Total Lost time (s)		2.0			2.0						2.0	
Lane Util. Factor		*1.00			*1.00						*1.00	
Frt		1.00			1.00						1.00	
Flt Protected		1.00			1.00						1.00	
Satd. Flow (prot)		3600			3600						5400	
Flt Permitted		1.00			1.00						1.00	
Satd. Flow (perm)		3600			3600						5400	
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	0	381	152	153	438	0	0	0	0	68	1420	142
RTOR Reduction (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	533	0	0	591	0	0	0	0	0	1630	0
Turn Type				Perm						Perm		
Protected Phases		4			8						6	
Permitted Phases				8						6		
Actuated Green, G (s)		18.4			18.4						28.1	
Effective Green, g (s)		19.4			19.4						29.1	
Actuated g/C Ratio		0.37			0.37						0.55	
Clearance Time (s)		3.0			3.0						3.0	
Vehicle Extension (s)		3.0			3.0						3.0	
Lane Grp Cap (vph)		1330			1330						2993	
v/s Ratio Prot		0.15										
v/s Ratio Perm					0.16						0.30	
v/c Ratio		0.40			0.44						0.54	
Uniform Delay, d1		12.2			12.5						7.5	
Progression Factor		1.00			0.29						1.00	
Incremental Delay, d2		0.2			0.2						0.2	
Delay (s)		12.4			3.9						7.7	
Level of Service		B			A						A	
Approach Delay (s)		12.4			3.9			0.0			7.7	
Approach LOS		B			A			A			A	

Intersection Summary			
HCM Average Control Delay	7.8	HCM Level of Service	A
HCM Volume to Capacity ratio	0.49		
Actuated Cycle Length (s)	52.5	Sum of lost time (s)	4.0
Intersection Capacity Utilization	70.7%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	0	506	181	183	393	0	0	0	0	64	1394	142
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Total Lost time (s)		2.0			2.0						2.0	
Lane Util. Factor		*1.00			*1.00						*1.00	
Frt		1.00			1.00						1.00	
Flt Protected		1.00			1.00						1.00	
Satd. Flow (prot)		3600			3600						5400	
Flt Permitted		1.00			1.00						1.00	
Satd. Flow (perm)		3600			3600						5400	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	0	538	193	195	418	0	0	0	0	68	1483	151
RTOR Reduction (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	731	0	0	613	0	0	0	0	0	1702	0
Turn Type				Perm						Perm		
Protected Phases		4			8						6	
Permitted Phases				8						6		
Actuated Green, G (s)		19.3			19.3						31.7	
Effective Green, g (s)		20.3			20.3						32.7	
Actuated g/C Ratio		0.36			0.36						0.57	
Clearance Time (s)		3.0			3.0						3.0	
Vehicle Extension (s)		3.0			3.0						3.0	
Lane Grp Cap (vph)		1282			1282						3098	
v/s Ratio Prot		c0.20										
v/s Ratio Perm					0.17						0.32	
v/c Ratio		0.57			0.48						0.55	
Uniform Delay, d1		14.8			14.2						7.6	
Progression Factor		1.00			0.26						1.00	
Incremental Delay, d2		0.6			0.2						0.2	
Delay (s)		15.4			3.9						7.8	
Level of Service		B			A						A	
Approach Delay (s)		15.4			3.9			0.0			7.8	
Approach LOS		B			A			A			A	

Intersection Summary			
HCM Average Control Delay	8.8	HCM Level of Service	A
HCM Volume to Capacity ratio	0.55		
Actuated Cycle Length (s)	57.0	Sum of lost time (s)	4.0
Intersection Capacity Utilization	81.1%	ICU Level of Service	D
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	118	286	0	0	454	121	78	1137	67	0	0	0
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Total Lost time (s)		2.0			2.0			2.0				
Lane Util. Factor		*1.00			*1.00			*1.00				
Frt		1.00			1.00			1.00				
Flt Protected		1.00			1.00			1.00				
Satd. Flow (prot)		3600			3600			5400				
Flt Permitted		1.00			1.00			1.00				
Satd. Flow (perm)		3600			3600			5400				
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	131	318	0	0	504	134	87	1263	74	0	0	0
RTOR Reduction (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	449	0	0	638	0	0	1424	0	0	0	0
Turn Type	Perm						Perm					
Protected Phases		4			8			2				
Permitted Phases	4						2					
Actuated Green, G (s)		18.4			18.4			28.1				
Effective Green, g (s)		19.4			19.4			29.1				
Actuated g/C Ratio		0.37			0.37			0.55				
Clearance Time (s)		3.0			3.0			3.0				
Vehicle Extension (s)		3.0			3.0			3.0				
Lane Grp Cap (vph)		1330			1330			2993				
v/s Ratio Prot					c0.18							
v/s Ratio Perm		0.12						0.26				
v/c Ratio		0.34			0.48			0.48				
Uniform Delay, d1		11.9			12.7			7.1				
Progression Factor		0.30			1.00			1.00				
Incremental Delay, d2		0.1			0.3			0.1				
Delay (s)		3.7			13.0			7.2				
Level of Service		A			B			A				
Approach Delay (s)		3.7			13.0			7.2			0.0	
Approach LOS		A			B			A			A	

Intersection Summary			
HCM Average Control Delay	8.0	HCM Level of Service	A
HCM Volume to Capacity ratio	0.47		
Actuated Cycle Length (s)	52.5	Sum of lost time (s)	4.0
Intersection Capacity Utilization	65.7%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	171	399	0	0	495	187	81	1646	100	0	0	0
Ideal Flow (vphpl)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Total Lost time (s)		2.0			2.0			2.0				
Lane Util. Factor		*1.00			*1.00			*1.00				
Frt		1.00			1.00			1.00				
Flt Protected		1.00			1.00			1.00				
Satd. Flow (prot)		3600			3600			5400				
Flt Permitted		1.00			1.00			1.00				
Satd. Flow (perm)		3600			3600			5400				
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	182	424	0	0	527	199	86	1751	106	0	0	0
RTOR Reduction (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	606	0	0	726	0	0	1943	0	0	0	0
Turn Type	Perm						Perm					
Protected Phases		4			8			2				
Permitted Phases	4						2					
Actuated Green, G (s)		19.3			19.3			31.7				
Effective Green, g (s)		20.3			20.3			32.7				
Actuated g/C Ratio		0.36			0.36			0.57				
Clearance Time (s)		3.0			3.0			3.0				
Vehicle Extension (s)		3.0			3.0			3.0				
Lane Grp Cap (vph)		1282			1282			3098				
v/s Ratio Prot					c0.20							
v/s Ratio Perm		0.17						0.36				
v/c Ratio		0.47			0.57			0.63				
Uniform Delay, d1		14.2			14.8			8.1				
Progression Factor		0.22			1.00			1.00				
Incremental Delay, d2		0.2			0.6			0.4				
Delay (s)		3.3			15.4			8.5				
Level of Service		A			B			A				
Approach Delay (s)		3.3			15.4			8.5			0.0	
Approach LOS		A			B			A			A	

Intersection Summary			
HCM Average Control Delay	9.1	HCM Level of Service	A
HCM Volume to Capacity ratio	0.59		
Actuated Cycle Length (s)	57.0	Sum of lost time (s)	4.0
Intersection Capacity Utilization	85.3%	ICU Level of Service	E
Analysis Period (min)	15		
c Critical Lane Group			