WEBSTER

WEbster Based Signal Timing Evaluation Routine

For Capacity and Level of Service Analysis Using HCM 2000 Control Delay

Existing Traffic with Existing Lane Geometrics

Baseline and Palm Avenue **City of Highland** **AM Peak Hour**

Input

	Eastbound			Westbound			Northbound			Southbound		
Movement Times	L	T	R	*L*	*T*	R	L	T	R	*L*	*T*	R
Movement 1: 14 secs	X			X								
Movement 2: 20 secs		X	X		X	X						
Movement 3: 10 secs							X			X		
Movement 4: 20 secs								X	X		X	X
Movement 5: 0 secs												
Movement 6: 0 secs												
# of Lanes (#, S, P)	1	2	S	1	2	1	1	2	S	1	2	S
Unadjusted Volume	47	331	45	175	420	69	56	122	51	86	237	10
Peak Hour Factor (PHF)	0.80	0.80	0.80	0.85	0.85	0.85	0.86	0.86	0.86	0.92	0.92	0.92
Growth Factor (%)												
Project Trip Volume (vph)												
Sat. Flow Override (vph)			Shrd						Shrd			Shrd
Min. Time or Ped. Time	10	20	20	10	20	20	10	20	20	10	20	20
Permissive Veh/Cycle												
Progression Adj. Factor (PAF)	1.00	1.00	-	1.00	1.00	1.00	1.00	1.00	-	1.00	1.00	-

Parameter Values (using default set 'SANBAG (Existing)')

	Other	Default
Duration of Peak Period (min)		15
Lost Time (sec)		2
Min. Time (Left Turns, sec)		10
Min/Ped Time (Thru Lanes, sec)		20
Sat Flow (1 Left lane, vphg)	1700	1800
Sat Flow (2 Left lanes, vphg)	3200	3500
Sat Flow (1 Thru lane, vphg)	1800	1900
Sat Flow (1 Right lane, vphg)		1800
Vehicle Length (feet)		20

Output

				***	***					***	***	
Pk. Hr. Vol. (vph)	59	414	56	206	494	81	65	142	59	93	258	11
Saturation Flow (vph)	1700	3600	Shrd	1700	3600	1800	1700	3600	Shrd	1700	3600	Shrd
X or V/C	0.19	0.46	-	0.65	0.49	0.16	0.31	0.20	-	0.44	0.27	-
Effective green (sec)	12	18	-	12	18	18	8	18	-	8	18	-
Split Time (sec)	14	20	-	14	20	20	10	20	-	10	20	-
Min. Time or Ped. Time (sec)	10	20	-	10	20	20	10	20	-	10	20	-
Delay - 15 min pk (sec/veh)	23	21	-	34	21	18	29	18	-	32	19	-
Level of Service (LOS)	C+	C+	-	C-	C+	B	C	B	-	C-	B	-
Average 'Q' (veh/ln)	1	3	-	3	3	1	1	1	-	1	2	-
Design 'Q'- ft/ln	40	100	-	100	100	40	40	40	-	40	60	-
Do Vehicles Clear?	YES	YES	-	YES	YES	YES	YES	YES	-	YES	YES	-

Summary

Whole Intersection

Weighted Avg Delay (sec) = 22
Level of Service - LOS = C+

Critical Movements

Weighted Avg Delay (sec) = 24
Level of Service - LOS = C+
Intersection Capacity Utilization - ICU = 0.44

Required Cycle Length is 64 sec

Min./Ped. Times Satisfied

WEBSTER

WEbster Based Signal Timing Evaluation Routine

For Capacity and Level of Service Analysis Using HCM 2000 Control Delay

Existing Traffic with Existing Lane Geometrics

Baseline and Palm Avenue **City of Highland** **PM Peak Hour**

Input

	Eastbound			Westbound			Northbound			Southbound		
Movement Times	L	*T*	R	*L*	T	R	L	*T*	R	*L*	T	R
Movement 1: **11** secs	X			X								
Movement 2: **20** secs		X	X		X	X						
Movement 3: **10** secs							X			X		
Movement 4: **20** secs								X	X		X	X
Movement 5: **0** secs												
Movement 6: **0** secs												
# of Lanes (#, S, P)	1	**2**	S	**1**	2	1	1	**2**	S	**1**	2	S
Unadjusted Volume	77	**484**	44	**118**	325	122	105	**325**	122	**117**	209	35
Peak Hour Factor (PHF)	0.95	**0.95**	0.95	**0.85**	0.85	0.85	0.81	**0.81**	0.81	**0.87**	0.87	0.87
Growth Factor (%)												
Project Trip Volume (vph)												
Sat. Flow Override (vph)			Shrd						Shrd			Shrd
Min. Time or Ped. Time	10	**20**	20	**10**	20	20	10	**20**	20	**10**	20	20
Permissive Veh/Cycle												
Progression Adj. Factor (PAF)	1.00	**1.00**	-	**1.00**	1.00	1.00	1.00	**1.00**	-	**1.00**	1.00	-

Parameter Values (using default set 'SANBAG (Existing)')

	Other	Default
Duration of Peak Period (min)		15
Lost Time (sec)		2
Min. Time (Left Turns, sec)		10
Min/Ped Time (Thru Lanes, sec)		20
Sat Flow (1 Left lane, vphg)	1700	1800
Sat Flow (2 Left lanes, vphg)	3200	3500
Sat Flow (1 Thru lane, vphg)	1800	1900
Sat Flow (1 Right lane, vphg)		1800
Vehicle Length (feet)		20

Output

		***		***				***		***		
Pk. Hr. Vol. (vph)	81	**509**	46	**139**	382	144	130	**401**	151	**134**	240	40
Saturation Flow (vph)	1700	**3600**	Shrd	**1700**	3600	1800	1700	**3600**	Shrd	**1700**	3600	Shrd
X or V/C	0.32	**0.52**	-	**0.55**	0.36	0.27	0.58	**0.52**	-	**0.60**	0.26	-
Effective green (sec)	9	**18**	-	**9**	18	18	8	**18**	-	**8**	18	-
Split Time (sec)	11	**20**	-	**11**	20	20	10	**20**	-	**10**	20	-
Min. Time or Ped. Time (sec)	10	**20**	-	**10**	20	20	10	**20**	-	**10**	20	-
Delay - 15 min pk (sec/veh)	27	**20**	-	**33**	18	18	36	**20**	-	**36**	17	-
Level of Service (LOS)	C	**B**	-	**C-**	B	B	D+	**B**	-	**D+**	B	-
Average 'Q' (veh/ln)	1	**3**	-	**2**	2	2	2	**3**	-	**2**	2	-
Design 'Q'- ft/ln	40	**100**	-	**60**	60	60	60	**100**	-	**60**	60	-
Do Vehicles Clear?	YES	**YES**	-	**YES**	YES	YES	YES	**YES**	-	**YES**	YES	-

Summary

Whole Intersection

Weighted Avg Delay (sec) = 22
Level of Service - LOS = C+

Critical Movements

Weighted Avg Delay (sec) = 23
Level of Service - LOS = C+
Intersection Capacity Utilization - ICU = 0.54

Required Cycle Length is 61 sec

Min./Ped. Times Satisfied

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAPM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 1

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

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	20	37	17	9	83	19	126	12	11	168	21	66	14	23	124	27	124	11	11	173	548
04:15 PM	29	34	13	8	84	19	126	15	17	177	22	65	17	19	123	24	94	12	5	135	519
04:30 PM	34	29	10	8	81	20	91	12	16	139	23	74	28	21	146	14	122	14	8	158	524
04:45 PM	41	41	13	12	107	14	83	16	12	125	29	69	18	24	140	14	85	18	8	125	497
Total	124	141	53	37	355	72	426	55	56	609	95	274	77	87	533	79	425	55	32	591	2088
05:00 PM	34	52	4	8	98	23	99	16	6	144	19	71	21	23	134	21	113	12	9	155	531
05:15 PM	44	51	11	3	109	46	95	17	19	177	34	96	44	18	192	14	115	10	1	140	618
05:30 PM	13	49	12	6	80	24	75	14	9	122	24	79	23	26	152	20	120	12	7	159	513
05:45 PM	24	50	7	10	91	17	107	21	11	156	23	72	28	24	147	20	115	9	6	150	544
Total	115	202	34	27	378	110	376	68	45	599	100	318	116	91	625	75	463	43	23	604	2206
Grand Total	239	343	87	64	733	182	802	123	101	1208	195	592	193	178	1158	154	888	98	55	1195	4294
Apprch %	32.6	46.8	11.9	8.7		15.1	66.4	10.2	8.4		16.8	51.1	16.7	15.4		12.9	74.3	8.2	4.6		
Total %	5.6	8	2	1.5	17.1	4.2	18.7	2.9	2.4	28.1	4.5	13.8	4.5	4.1	27	3.6	20.7	2.3	1.3	27.8	
Passenger Vehicles																					
% Passenger Vehicles	96.2	93.3	94.3	98.4	94.8	87.4	88.5	88.6	98	89.2	89.7	95.1	85.5	97.2	92.9	94.8	89.9	94.9	98.2	91.3	91.7
Large 2 Axle Vehicles																					
% Large 2 Axle Vehicles	3.8	6.1	5.7	1.6	4.9	11	10.6	10.6	2	9.9	10.3	4.7	14	2.8	6.9	5.2	9.7	4.1	1.8	8.3	7.8
3 Axle Vehicles																					
% 3 Axle Vehicles	0	0.6	0	0	0.3	0.5	0.6	0.8	0	0.6	0	0.2	0	0	0.1	0	0.3	1	0	0.3	0.3
4+ Axle Trucks	0	0	0	0	0	2	2	0	0	4	0	0	1	0	1	0	1	0	0	1	6
% 4+ Axle Trucks																					

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	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 05:00 PM																					
05:00 PM	34	52	4	8	98	23	99	16	6	144	19	71	21	23	134	21	113	12	9	155	531
05:15 PM	44	51	11	3	109	46	95	17	19	177	34	96	44	18	192	14	115	10	1	140	618
05:30 PM	13	49	12	6	80	24	75	14	9	122	24	79	23	26	152	20	120	12	7	159	513
05:45 PM	24	50	7	10	91	17	107	21	11	156	23	72	28	24	147	20	115	9	6	150	544
Total Volume	115	202	34	27	378	110	376	68	45	599	100	318	116	91	625	75	463	43	23	604	2206
% App. Total	30.4	53.4	9	7.1		18.4	62.8	11.4	7.5		16	50.9	18.6	14.6		12.4	76.7	7.1	3.8		
PHF	.653	.971	.708	.675	.867	.598	.879	.810	.592	.846	.735	.828	.659	.875	.814	.893	.965	.896	.639	.950	.892

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

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Site Code : 11122309
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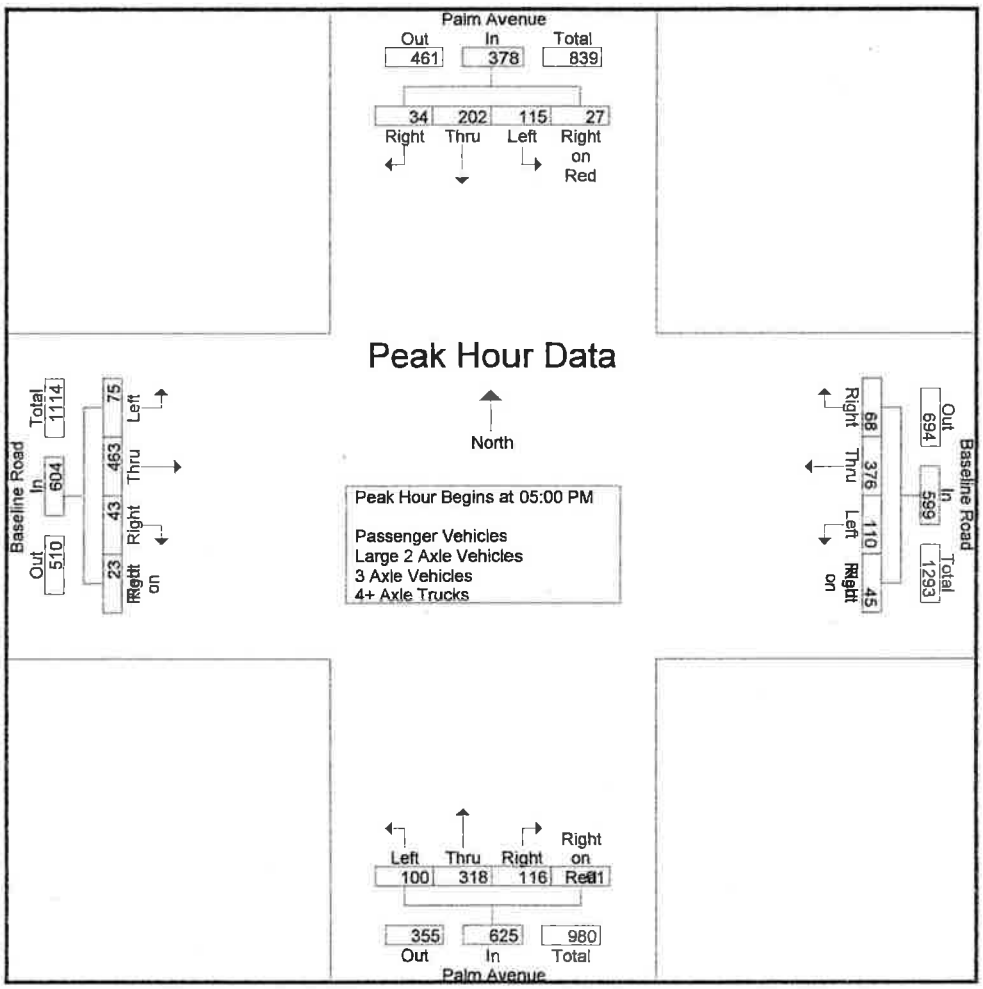
Page No : 2



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

Peak Hour for Each Approach Begins at:

	04:30 PM					04:00 PM					05:00 PM					05:00 PM				
+0 mins.	34	29	10	8	81	19	**126**	12	11	168	19	71	21	23	134	**21**	113	**12**	**9**	155
+15 mins.	41	41	**13**	**12**	107	19	126	15	**17**	**177**	**34**	**96**	**44**	18	**192**	14	115	10	1	140
+30 mins.	34	**52**	4	8	98	**20**	91	12	16	139	24	79	23	**26**	152	20	**120**	12	7	**159**
+45 mins.	**44**	51	11	3	**109**	14	83	**16**	12	125	23	72	28	24	147	20	115	9	6	150
Total Volume	153	173	38	31	395	72	426	55	56	609	100	318	116	91	625	75	463	43	23	604
% App. Total	38.7	43.8	9.6	7.8		11.8	70	9	9.2		16	50.9	18.6	14.6		12.4	76.7	7.1	3.8	
PHF	.869	.832	.731	.646	.906	.900	.845	.859	.824	.860	.735	.828	.659	.875	.814	.893	.965	.896	.639	.950

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Groups Printed- Passenger Vehicles

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	19	33	15	9	76	17	103	12	11	143	18	62	10	22	112	23	108	11	11	153	484
04:15 PM	28	32	13	8	81	15	104	13	16	148	19	63	14	17	113	24	85	11	5	125	467
04:30 PM	32	27	9	8	76	17	84	11	16	128	21	67	21	20	129	14	107	13	8	142	475
04:45 PM	39	39	12	12	102	12	76	13	11	112	26	66	16	24	132	13	73	17	8	111	457
Total	118	131	49	37	335	61	367	49	54	531	84	258	61	83	486	74	373	52	32	531	1883
05:00 PM	32	50	4	8	94	19	86	13	6	124	18	67	17	23	125	21	106	12	9	148	491
05:15 PM	44	49	10	3	106	44	88	17	19	168	32	94	41	18	185	13	105	10	1	129	588
05:30 PM	13	44	12	5	74	21	69	12	9	111	22	75	20	25	142	19	108	11	6	144	471
05:45 PM	23	46	7	10	86	14	100	18	11	143	19	69	26	24	138	19	106	8	6	139	506
Total	112	189	33	26	360	98	343	60	45	546	91	305	104	90	590	72	425	41	22	560	2056
Grand Total	230	320	82	63	695	159	710	109	99	1077	175	563	165	173	1076	146	798	93	54	1091	3939
Apprch %	33.1	46	11.8	9.1		14.8	65.9	10.1	9.2		16.3	52.3	15.3	16.1		13.4	73.1	8.5	4.9		
Total %	5.8	8.1	2.1	1.6	17.6	4	18	2.8	2.5	27.3	4.4	14.3	4.2	4.4	27.3	3.7	20.3	2.4	1.4	27.7	

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	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 05:00 PM																					
05:00 PM	32	**50**	4	8	94	19	86	13	6	124	18	67	17	23	125	**21**	106	**12**	**9**	**148**	491
05:15 PM	**44**	49	10	3	**106**	**44**	88	17	**19**	**168**	**32**	**94**	**41**	18	**185**	13	105	10	1	129	**588**
05:30 PM	13	44	**12**	5	74	21	69	12	9	111	22	75	20	**25**	142	19	**108**	11	6	144	471
05:45 PM	23	46	7	**10**	86	14	**100**	**18**	11	143	19	69	26	24	138	19	106	8	6	139	506
Total Volume	112	189	33	26	360	98	343	60	45	546	91	305	104	90	590	72	425	41	22	560	2056
% App. Total	31.1	52.5	9.2	7.2		17.9	62.8	11	8.2		15.4	51.7	17.6	15.3		12.9	75.9	7.3	3.9		
PHF	.636	.945	.688	.650	.849	.557	.858	.833	.592	.813	.711	.811	.634	.900	.797	.857	.984	.854	.611	.946	.874

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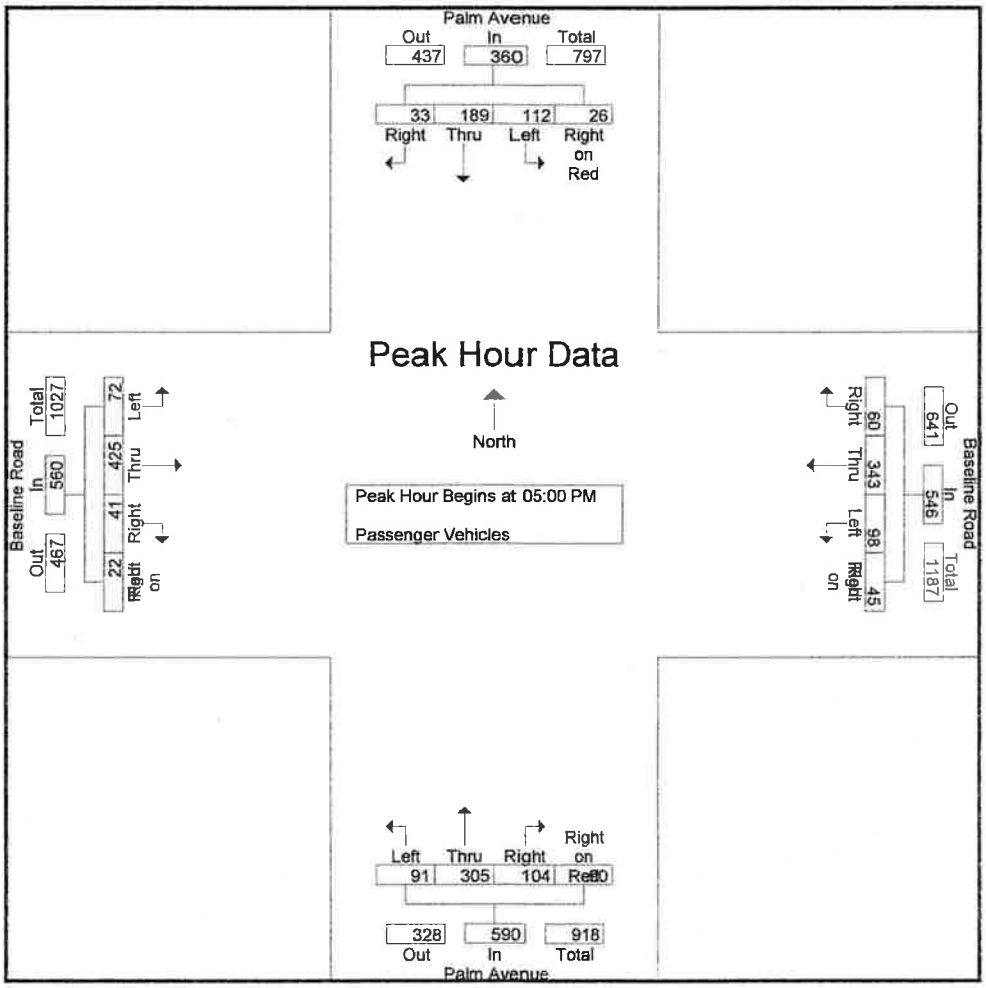

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:30 PM					05:00 PM					05:00 PM					05:00 PM				
+0 mins.	32	27	9	8	76	19	86	13	6	124	18	67	17	23	125	**21**	106	**12**	**9**	**148**
+15 mins.	39	39	**12**	**12**	102	**44**	88	17	**19**	**168**	**32**	**94**	**41**	18	**185**	13	105	10	1	129
+30 mins.	32	**50**	4	8	94	21	69	12	9	111	22	75	20	**25**	142	19	**108**	11	6	144
+45 mins.	**44**	49	10	3	**106**	14	**100**	**18**	11	**143**	19	69	26	24	138	19	106	8	6	139
Total Volume	147	165	35	31	378	98	343	60	45	546	91	305	104	90	590	72	425	41	22	560
% App. Total	38.9	43.7	9.3	8.2		17.9	62.8	11	8.2		15.4	51.7	17.6	15.3		12.9	75.9	7.3	3.9	
PHF	.835	.825	.729	.646	.892	.557	.858	.833	.592	.813	.711	.811	.634	.900	.797	.857	.984	.854	.611	.946

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Groups Printed- Large 2 Axle Vehicles

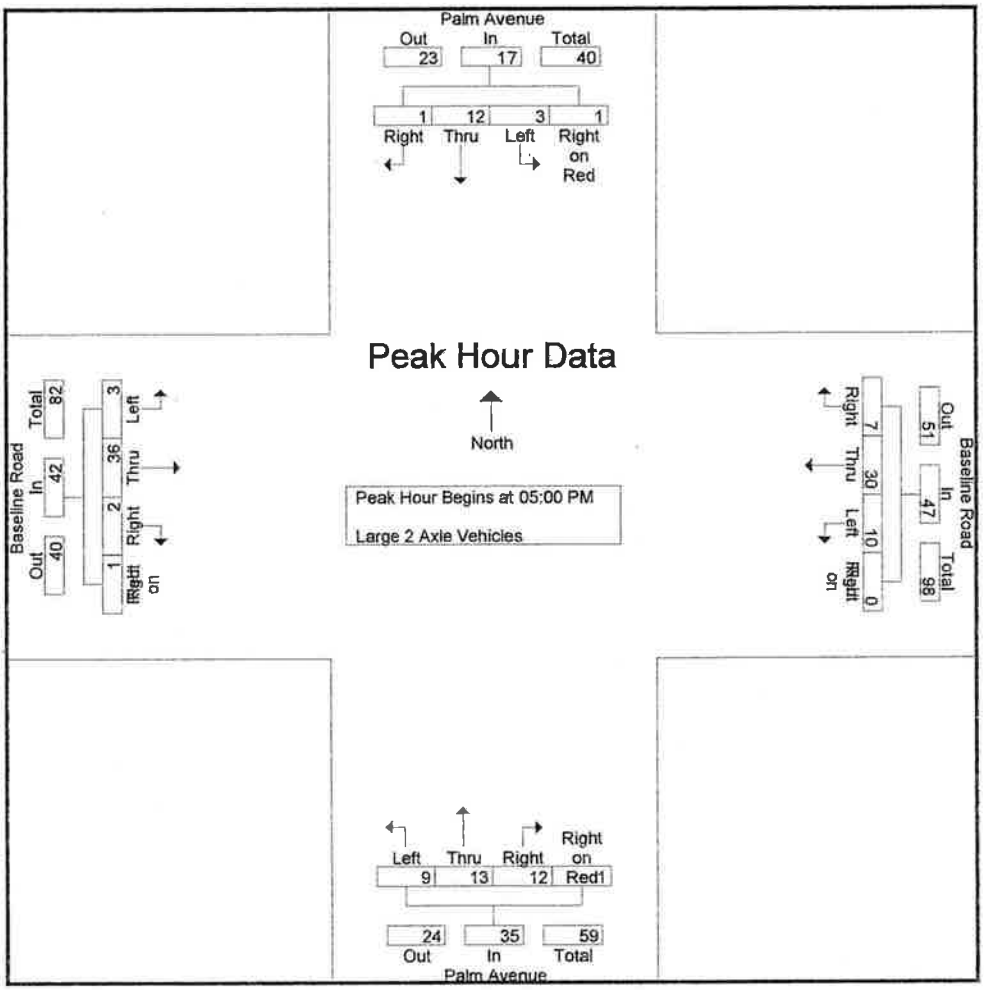
	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	1	4	2	0	7	1	21	0	0	22	3	4	4	1	12	4	16	0	0	20	61
04:15 PM	1	2	0	0	3	4	21	2	1	28	3	2	2	2	9	0	9	1	0	10	50
04:30 PM	2	1	1	0	4	3	7	1	0	11	2	6	7	1	16	0	13	0	0	13	44
04:45 PM	2	2	1	0	5	2	6	3	1	12	3	3	2	0	8	1	12	1	0	14	39
Total	6	9	4	0	19	10	55	6	2	73	11	15	15	4	45	5	50	2	0	57	194
05:00 PM	2	2	0	0	4	3	13	3	0	19	1	4	4	0	9	0	7	0	0	7	39
05:15 PM	0	2	1	0	3	1	6	0	0	7	2	2	3	0	7	1	9	0	0	10	27
05:30 PM	0	5	0	1	6	3	6	2	0	11	2	4	3	1	10	1	11	1	1	14	41
05:45 PM	1	3	0	0	4	3	5	2	0	10	4	3	2	0	9	1	9	1	0	11	34
Total	3	12	1	1	17	10	30	7	0	47	9	13	12	1	35	3	36	2	1	42	141
Grand Total	9	21	5	1	36	20	85	13	2	120	20	28	27	5	80	8	86	4	1	99	335
Apprch %	25	58.3	13.9	2.8		16.7	70.8	10.8	1.7		25	35	33.8	6.2		8.1	86.9	4	1		
Total %	2.7	6.3	1.5	0.3	10.7	6	25.4	3.9	0.6	35.8	6	8.4	8.1	1.5	23.9	2.4	25.7	1.2	0.3	29.6	

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:00 PM																					
05:00 PM	**2**	2	0	0	4	**3**	**13**	**3**	0	**19**	1	4	**4**	0	9	0	7	0	0	7	39
05:15 PM	**0**	2	**1**	0	3	1	6	0	0	7	2	2	3	0	7	**1**	9	0	0	10	27
05:30 PM	**0**	**5**	0	**1**	**6**	3	6	2	0	11	2	4	3	**1**	**10**	1	**11**	**1**	**1**	**14**	**41**
05:45 PM	1	3	0	0	4	3	5	2	0	10	4	3	2	0	9	1	9	1	0	11	34
Total Volume	3	12	1	1	17	10	30	7	0	47	9	13	12	1	35	3	36	2	1	42	141
% App. Total	17.6	70.6	5.9	5.9		21.3	63.8	14.9	0		25.7	37.1	34.3	2.9		7.1	85.7	4.8	2.4		
PHF	.375	.600	.250	.250	.708	.833	.577	.583	.000	.618	.563	.813	.750	.250	.875	.750	.818	.500	.250	.750	.860

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAPM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 2



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

Peak Hour for Each Approach Begins at:

	05:00 PM					05:00 PM					05:00 PM					05:00 PM				
+0 mins.	**2**	2	0	0	4	**3**	**13**	**3**	0	**19**	1	4	4	0	9	0	7	0	0	7
+15 mins.	0	2	1	0	3	1	6	0	0	7	2	2	3	0	7	**1**	9	0	0	10
+30 mins.	0	**5**	0	**1**	**6**	3	6	2	0	11	2	4	3	**1**	**10**	1	**11**	**1**	**1**	**14**
+45 mins.	1	3	0	0	4	3	5	2	0	10	**4**	3	2	0	9	1	9	1	0	11
Total Volume	3	12	1	1	17	10	30	7	0	47	9	13	12	1	35	3	36	2	1	42
% App. Total	17.6	70.6	5.9	5.9		21.3	63.8	14.9	0		25.7	37.1	34.3	2.9		7.1	85.7	4.8	2.4	
PHF	.375	.600	.250	.250	.708	.833	.577	.583	.000	.618	.563	.813	.750	.250	.875	.750	.818	.500	.250	.750

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAPM
Site Code : 11122309
Start Date : 5/28/2008
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Groups Printed- 3 Axle Vehicles

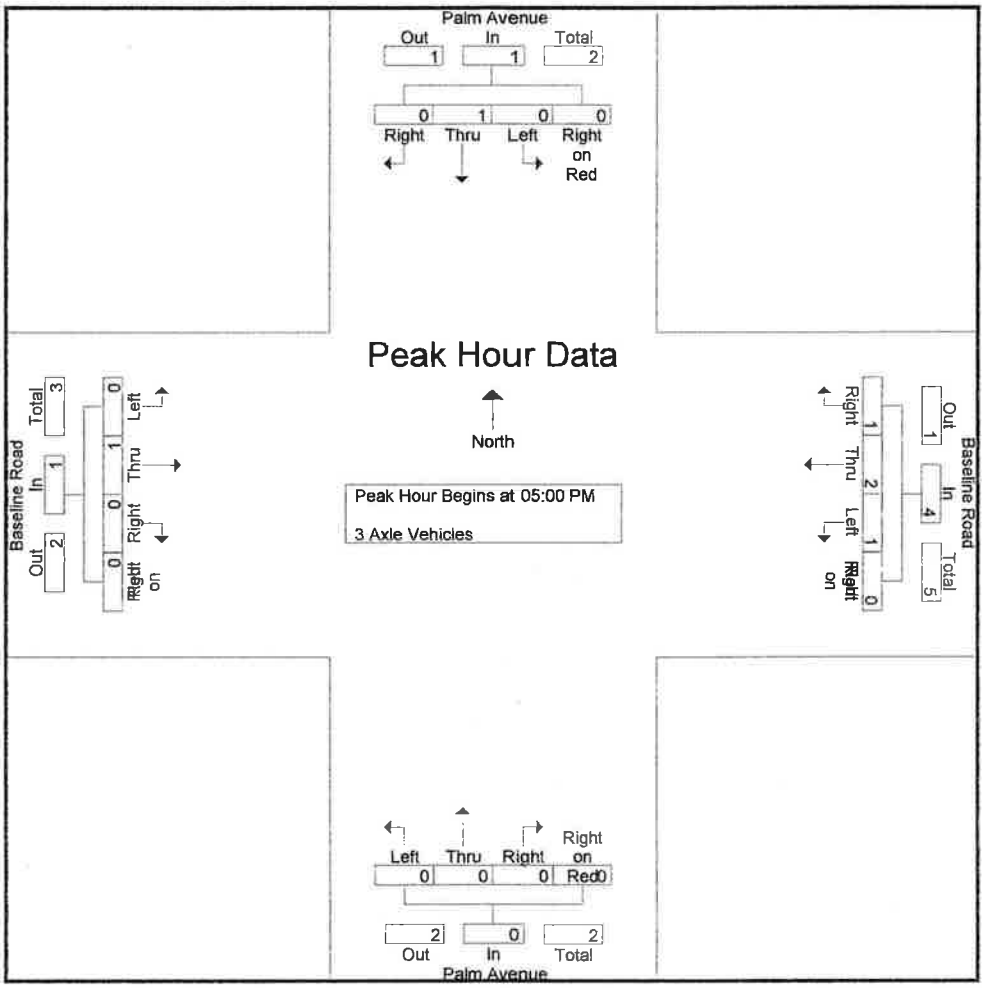
	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	2	1	0	3	5
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	3	0	0	3	0	1	0	0	1	0	2	1	0	3	8
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	3
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	1	0	0	1	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	3
Total	0	1	0	0	1	1	2	1	0	4	0	0	0	0	0	0	1	0	0	1	6
Grand Total	0	2	0	0	2	1	5	1	0	7	0	1	0	0	1	0	3	1	0	4	14
Apprch %	0	100	0	0		14.3	71.4	14.3	0		0	100	0	0		0	75	25	0		
Total %	0	14.3	0	0	14.3	7.1	35.7	7.1	0	50	0	7.1	0	0	7.1	0	21.4	7.1	0	28.6	

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:00 PM																					
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	3
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	1	0	0	1	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	3
Total Volume	0	1	0	0	1	1	2	1	0	4	0	0	0	0	0	0	1	0	0	1	6
% App. Total	0	100	0	0		25	50	25	0		0	0	0	0		0	100	0	0		
PHF	.000	.250	.000	.000	.250	.250	.500	.250	.000	.500	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.500

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAPM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 2



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

Peak Hour for Each Approach Begins at:

	05:00 PM					05:00 PM					05:00 PM					05:00 PM				
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1
+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	1	0	0	1	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	0	1	1	2	1	0	4	0	0	0	0	0	0	1	0	0	1
% App. Total	0	100	0	0		25	50	25	0		0	0	0	0		0	100	0	0	
PHF	.000	.250	.000	.000	.250	.250	.500	.250	.000	.500	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250

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

City of Highland
N/S: Palm Avenue
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File Name : HIPABAPM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 1

Groups Printed- 4+ Axle Trucks

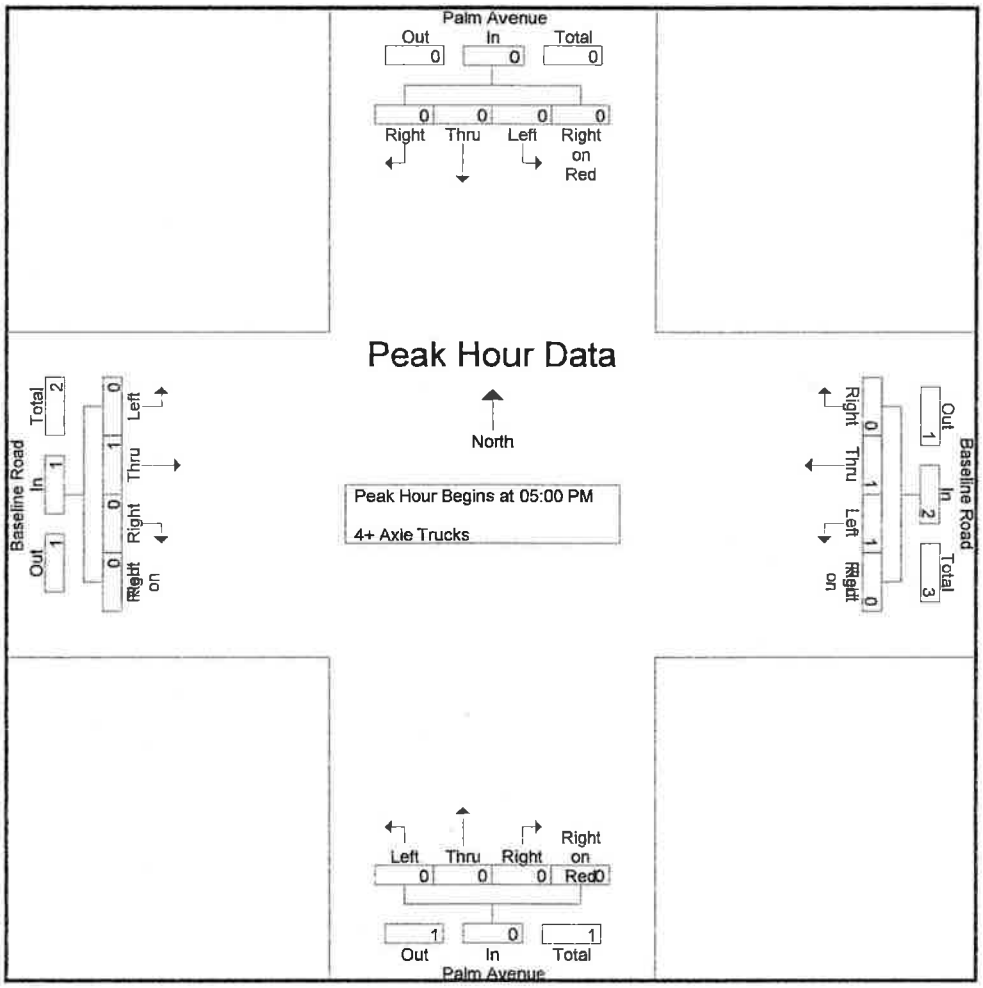
	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
04:00 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	1	1	0	0	2	0	0	1	0	1	0	0	0	0	0	3
05:00 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
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	0	0	0	0	0	1	0	0	1	1
05:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	3
Grand Total	0	0	0	0	0	2	2	0	0	4	0	0	1	0	1	0	1	0	0	1	6
Apprch %	0	0	0	0		50	50	0	0		0	0	100	0		0	100	0	0		
Total %	0	0	0	0	0	33.3	33.3	0	0	66.7	0	0	16.7	0	16.7	0	16.7	0	0	16.7	

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:00 PM																					
05:00 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
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	0	0	0	0	0	1	0	0	1	1
05:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	3
% App. Total	0	0	0	0		50	50	0	0		0	0	0	0		0	100	0	0		
PHF	.000	.000	.000	.000	.000	.250	.250	.000	.000	.500	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.750

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAPM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 2



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

Peak Hour for Each Approach Begins at:

	05:00 PM					05:00 PM					05:00 PM					05:00 PM				
+0 mins.	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	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	1	0	0	1
+45 mins.	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1
% App. Total	0	0	0	0		50	50	0	0		0	0	0	0		0	100	0	0	
PHF	.000	.000	.000	.000	.000	.250	.250	.000	.000	.500	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250

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

City of Highland
N/S: Palm Avenue
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Site Code : 11122309
Start Date : 5/28/2008
Page No : 1

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

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
07:00 AM	27	37	4	11	79	26	57	13	5	101	6	31	13	7	57	3	81	4	6	94	331
07:15 AM	24	61	2	7	94	44	108	13	12	177	14	25	15	8	62	11	71	8	8	98	431
07:30 AM	18	56	1	12	87	65	102	24	8	199	12	26	6	6	50	9	106	10	11	136	472
07:45 AM	24	62	4	4	94	31	105	15	13	164	17	28	19	8	72	12	74	13	8	107	437
Total	93	216	11	34	354	166	372	65	38	641	49	110	53	29	241	35	332	35	33	435	1671
08:00 AM	14	47	3	6	70	29	80	13	12	134	10	36	4	13	63	12	60	13	7	92	359
08:15 AM	27	23	4	5	59	13	82	13	7	115	14	21	5	12	52	11	81	9	5	106	332
08:30 AM	25	57	11	5	98	25	90	5	8	128	12	23	7	8	50	9	74	11	1	95	371
08:45 AM	15	41	8	9	73	21	74	18	4	117	12	39	8	13	72	10	74	8	5	97	359
Total	81	168	26	25	300	88	326	49	31	494	48	119	24	46	237	42	289	41	18	390	1421
Grand Total	174	384	37	59	654	254	698	114	69	1135	97	229	77	75	478	77	621	76	51	825	3092
Apprch %	26.6	58.7	5.7	9		22.4	61.5	10	6.1		20.3	47.9	16.1	15.7		9.3	75.3	9.2	6.2		
Total %	5.6	12.4	1.2	1.9	21.2	8.2	22.6	3.7	2.2	36.7	3.1	7.4	2.5	2.4	15.5	2.5	20.1	2.5	1.6	26.7	
Passenger Vehicles																					
% Passenger Vehicles	90.8	92.2	89.2	93.2	91.7	91.7	87.1	90.4	95.7	89	87.6	87.3	75.3	90.7	86	81.8	83.3	82.9	96.1	83.9	87.7
Large 2 Axle Vehicles																					
% Large 2 Axle Vehicles	8.6	7	10.8	5.1	7.5	8.3	11.5	8.8	4.3	10	12.4	11.8	22.1	9.3	13.2	14.3	15.3	13.2	3.9	14.3	11.1
3 Axle Vehicles																					
% 3 Axle Vehicles	0	0.8	0	1.7	0.6	0	1.1	0	0	0.7	0	0.9	1.3	0	0.6	3.9	1.3	3.9	0	1.7	0.9
4+ Axle Trucks	1	0	0	0	1	0	2	1	0	3	0	0	1	0	1	0	1	0	0	1	6
% 4+ Axle Trucks																					

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	**24**	61	2	7	**94**	**44**	**108**	13	12	177	14	25	15	8	62	11	71	8	8	98	431
07:30 AM	18	56	1	**12**	87	**65**	102	**24**	8	**199**	12	26	6	6	50	9	**106**	10	**11**	**136**	**472**
07:45 AM	24	**62**	**4**	4	94	31	105	15	**13**	164	**17**	28	**19**	8	**72**	**12**	74	**13**	8	107	437
08:00 AM	14	47	3	6	70	29	80	13	12	134	10	**36**	**4**	**13**	63	12	60	13	7	92	359
Total Volume	80	226	10	29	345	169	395	65	45	674	53	115	44	35	247	44	311	44	34	433	1699
% App. Total	23.2	65.5	2.9	8.4		25.1	58.6	9.6	6.7		21.5	46.6	17.8	14.2		10.2	71.8	10.2	7.9		
PHF	.833	.911	.625	.604	.918	.650	.914	.677	.865	.847	.779	.799	.579	.673	.858	.917	.733	.846	.773	.796	.900

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

City of Highland
N/S: Palm Avenue
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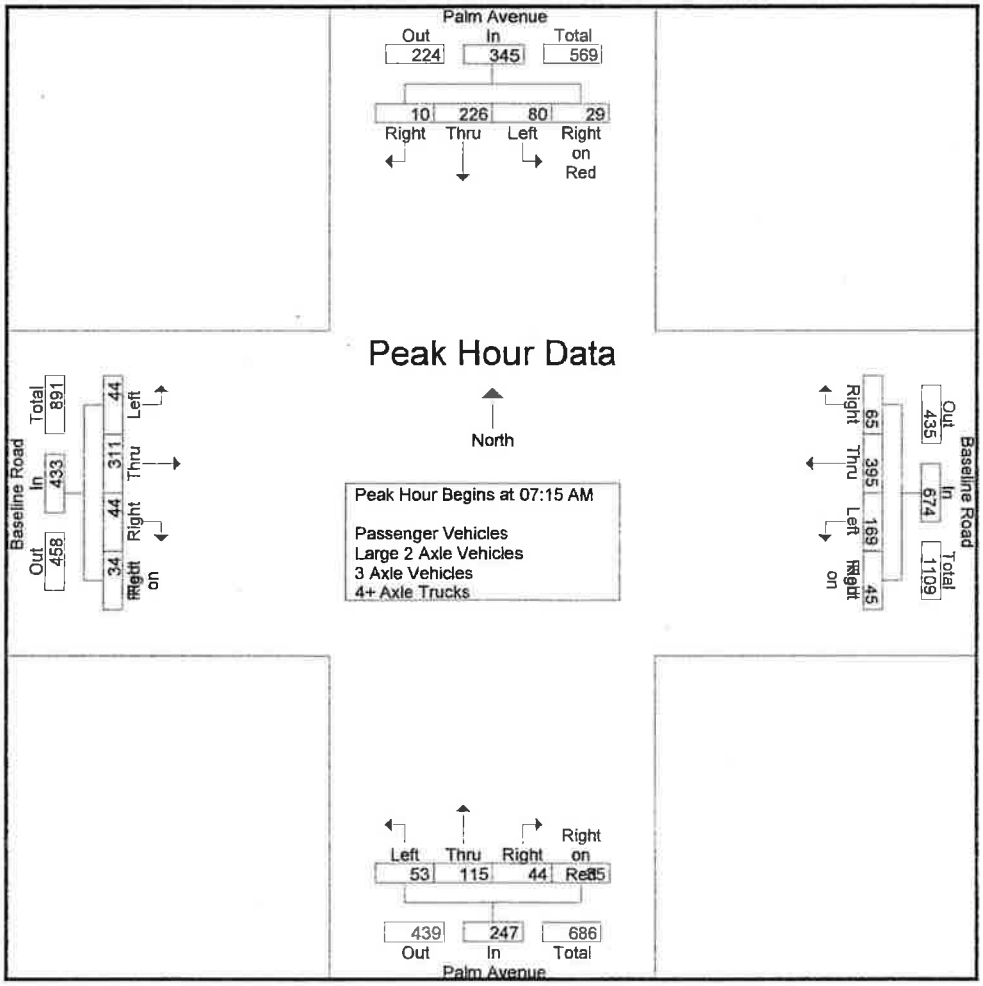

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM					07:15 AM					07:15 AM					07:30 AM				
+0 mins.	**27**	37	**4**	11	79	44	**108**	13	12	177	14	25	15	8	62	9	**106**	10	**11**	**136**
+15 mins.	24	61	2	7	**94**	**65**	102	**24**	8	**199**	12	26	6	6	50	**12**	74	**13**	8	107
+30 mins.	18	56	1	**12**	87	31	105	15	**13**	164	**17**	28	**19**	8	**72**	12	60	13	7	92
+45 mins.	24	**62**	4	4	94	29	80	13	12	134	10	**36**	4	**13**	63	11	81	9	5	106
Total Volume	93	216	11	34	354	169	395	65	45	674	53	115	44	35	247	44	321	45	31	441
% App. Total	26.3	61	3.1	9.6		25.1	58.6	9.6	6.7		21.5	46.6	17.8	14.2		10	72.8	10.2	7	
PHF	.861	.871	.688	.708	.941	.650	.914	.677	.865	.847	.779	.799	.579	.673	.858	.917	.757	.865	.705	.811

Counts Unlimited Inc.
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Page No : 1

Groups Printed- Passenger Vehicles

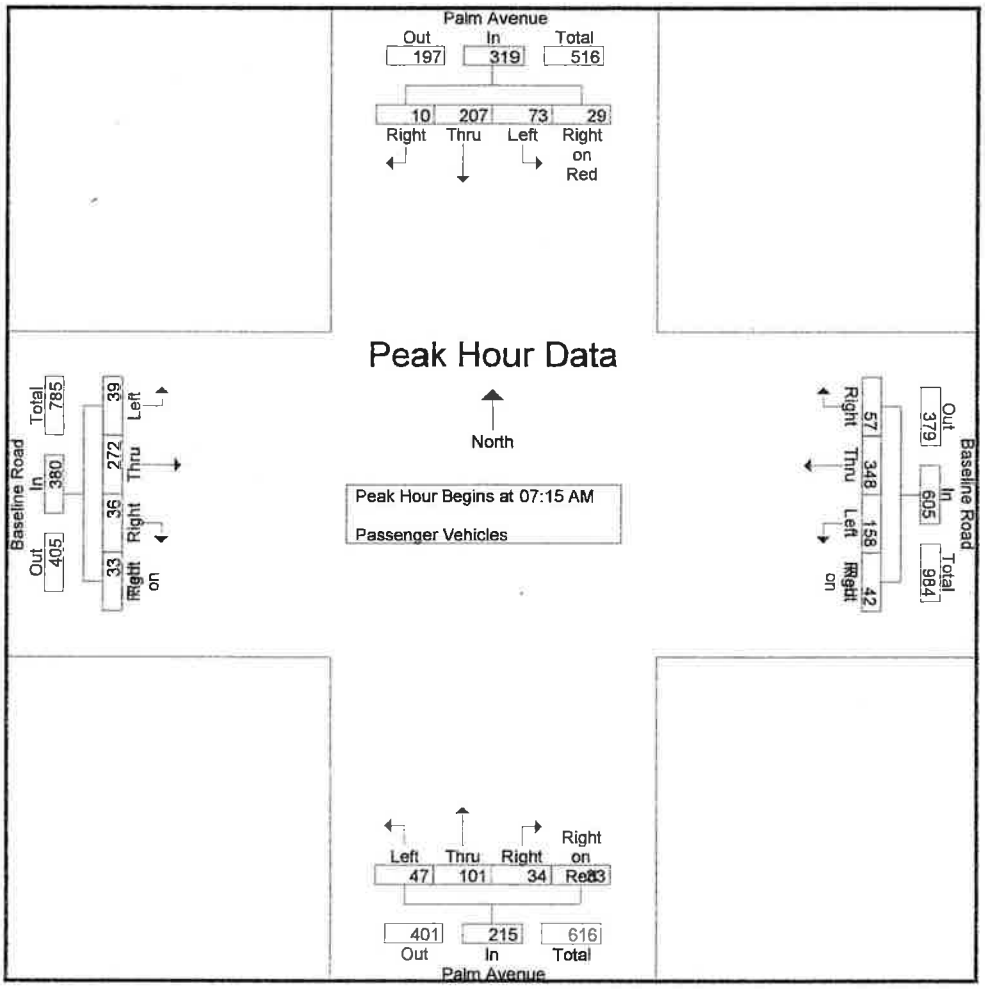
	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
07:00 AM	25	35	3	11	74	25	50	13	5	93	6	30	8	7	51	2	65	4	6	77	295
07:15 AM	22	55	2	7	86	42	99	12	11	164	13	22	12	7	54	10	59	5	8	82	386
07:30 AM	17	50	1	12	80	63	94	20	8	185	9	23	2	5	39	9	95	10	11	125	429
07:45 AM	20	58	4	4	86	28	89	14	11	142	16	25	17	8	66	11	61	10	8	90	384
Total	84	198	10	34	326	158	332	59	35	584	44	100	39	27	210	32	280	29	33	374	1494
08:00 AM	14	44	3	6	67	25	66	11	12	114	9	31	3	13	56	9	57	11	6	83	320
08:15 AM	26	23	3	4	56	10	71	13	7	101	11	14	2	9	36	7	59	7	5	78	271
08:30 AM	20	52	10	4	86	21	76	4	8	109	10	20	7	7	44	8	60	10	1	79	318
08:45 AM	14	37	7	7	65	19	63	16	4	102	11	35	7	12	65	7	61	6	4	78	310
Total	74	156	23	21	274	75	276	44	31	426	41	100	19	41	201	31	237	34	16	318	1219
Grand Total	158	354	33	55	600	233	608	103	66	1010	85	200	58	68	411	63	517	63	49	692	2713
Apprch %	26.3	59	5.5	9.2		23.1	60.2	10.2	6.5		20.7	48.7	14.1	16.5		9.1	74.7	9.1	7.1		
Total %	5.8	13	1.2	2	22.1	8.6	22.4	3.8	2.4	37.2	3.1	7.4	2.1	2.5	15.1	2.3	19.1	2.3	1.8	25.5	

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	**22**	55	2	7	**86**	42	**99**	12	11	164	13	22	12	7	54	10	59	5	8	82	386
07:30 AM	17	50	1	**12**	80	**63**	94	**20**	8	**185**	9	23	2	5	39	9	**95**	**10**	**11**	**125**	**429**
07:45 AM	20	**58**	**4**	4	86	28	89	14	11	142	**16**	25	**17**	8	**66**	**11**	61	**10**	8	90	384
08:00 AM	14	44	3	6	67	25	66	11	**12**	114	9	**31**	3	**13**	56	9	57	**11**	6	83	320
Total Volume	73	207	10	29	319	158	348	57	42	605	47	101	34	33	215	39	272	36	33	380	1519
% App. Total	22.9	64.9	3.1	9.1		26.1	57.5	9.4	6.9		21.9	47	15.8	15.3		10.3	71.6	9.5	8.7		
PHF	.830	.892	.625	.604	.927	.627	.879	.713	.875	.818	.734	.815	.500	.635	.814	.886	.716	.818	.750	.760	.885

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAAM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM					07:15 AM					07:15 AM					07:15 AM				
+0 mins.	**25**	35	3	11	74	42	**99**	12	11	164	13	22	12	7	54	10	59	5	8	82
+15 mins.	22	55	2	7	**86**	**63**	94	**20**	8	**185**	9	23	2	5	39	9	**95**	10	**11**	**125**
+30 mins.	17	50	1	**12**	80	28	89	14	11	142	**16**	25	**17**	8	**66**	**11**	61	10	8	90
+45 mins.	20	**58**	4	4	86	25	66	11	**12**	114	9	**31**	3	**13**	56	9	57	**11**	6	83
Total Volume	84	198	10	34	326	158	348	57	42	605	47	101	34	33	215	39	272	36	33	380
% App. Total	25.8	60.7	3.1	10.4		26.1	57.5	9.4	6.9		21.9	47	15.8	15.3		10.3	71.6	9.5	8.7	
PHF	.840	.853	.625	.708	.948	.627	.879	.713	.875	.818	.734	.815	.500	.635	.814	.886	.716	.818	.750	.760

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAAM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 1

Groups Printed- Large 2 Axle Vehicles

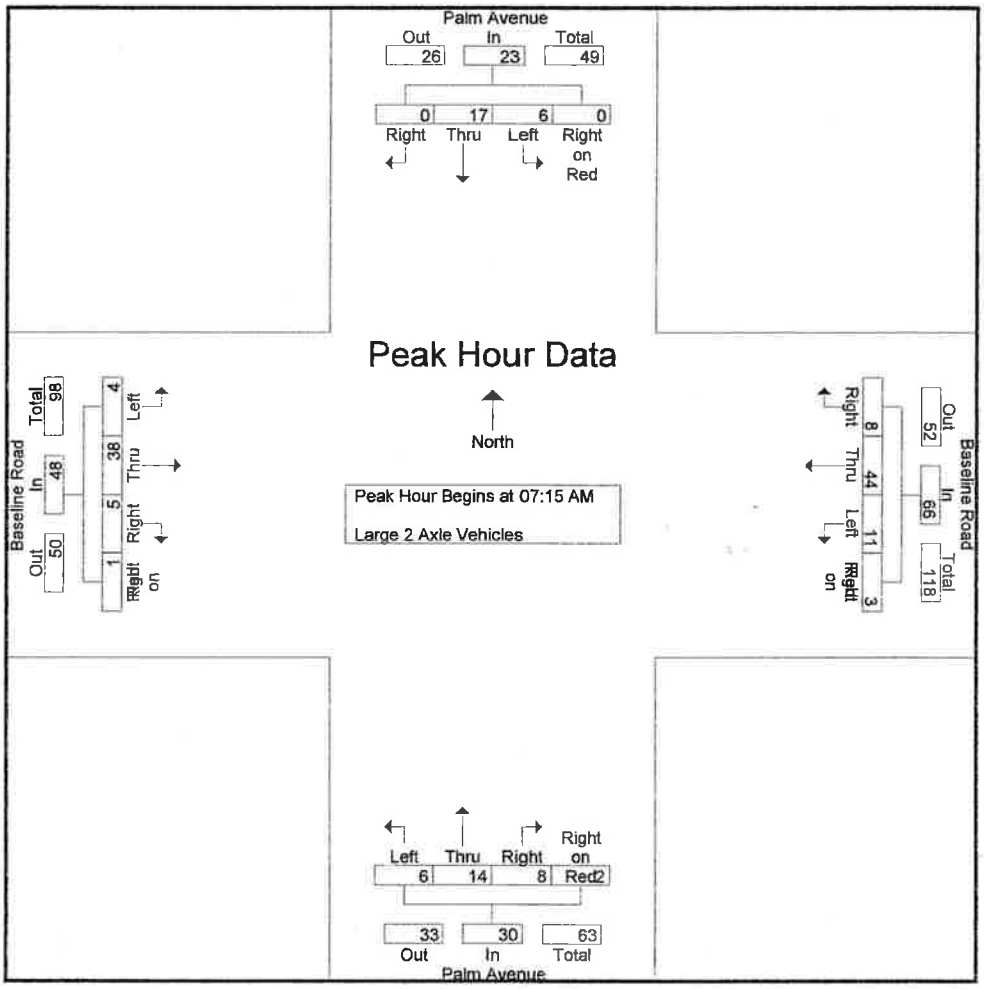
	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
07:00 AM	2	1	1	0	4	1	6	0	0	7	0	1	5	0	6	1	15	0	0	16	33
07:15 AM	1	6	0	0	7	2	9	1	1	13	1	3	2	1	7	0	11	0	0	11	38
07:30 AM	1	4	0	0	5	2	7	4	0	13	3	3	3	1	10	0	11	0	0	11	39
07:45 AM	4	4	0	0	8	3	15	1	2	21	1	3	2	0	6	1	13	3	0	17	52
Total	8	15	1	0	24	8	37	6	3	54	5	10	12	2	29	2	50	3	0	55	162
08:00 AM	0	3	0	0	3	4	13	2	0	19	1	5	1	0	7	3	3	2	1	9	38
08:15 AM	1	0	1	1	3	3	8	0	0	11	3	7	3	3	16	2	19	2	0	23	53
08:30 AM	5	5	1	1	12	4	14	1	0	19	2	3	0	1	6	1	13	1	0	15	52
08:45 AM	1	4	1	1	7	2	8	1	0	11	1	2	1	1	5	3	10	2	1	16	39
Total	7	12	3	3	25	13	43	4	0	60	7	17	5	5	34	9	45	7	2	63	182
Grand Total	15	27	4	3	49	21	80	10	3	114	12	27	17	7	63	11	95	10	2	118	344
Apprch %	30.6	55.1	8.2	6.1		18.4	70.2	8.8	2.6		19	42.9	27	11.1		9.3	80.5	8.5	1.7		
Total %	4.4	7.8	1.2	0.9	14.2	6.1	23.3	2.9	0.9	33.1	3.5	7.8	4.9	2	18.3	3.2	27.6	2.9	0.6	34.3	

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	1	6	0	0	7	2	9	1	1	13	1	3	2	1	7	0	11	0	0	11	38
07:30 AM	1	4	0	0	5	2	7	4	0	13	3	3	3	1	10	0	11	0	0	11	39
07:45 AM	4	4	0	0	8	3	15	1	2	21	1	3	2	0	6	1	13	3	0	17	52
08:00 AM	0	3	0	0	3	4	13	2	0	19	1	5	1	0	7	3	3	2	1	9	38
Total Volume	6	17	0	0	23	11	44	8	3	66	6	14	8	2	30	4	38	5	1	48	167
% App. Total	26.1	73.9	0	0		16.7	66.7	12.1	4.5		20	46.7	26.7	6.7		8.3	79.2	10.4	2.1		
PHF	.375	.708	.000	.000	.719	.688	.733	.500	.375	.786	.500	.700	.667	.500	.750	.333	.731	.417	.250	.706	.803

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAAM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:15 AM					07:15 AM					07:15 AM					07:15 AM				
+0 mins.	1	**6**	0	**0**	7	2	9	1	1	13	1	3	2	**1**	7	**0**	11	0	0	11
+15 mins.	1	4	0	**0**	5	2	7	**4**	0	13	**3**	3	**3**	1	**10**	**0**	11	0	0	11
+30 mins.	**4**	4	0	**0**	**8**	3	**15**	1	**2**	**21**	1	3	2	0	6	1	**13**	**3**	0	**17**
+45 mins.	0	3	0	**0**	3	**4**	13	2	0	19	1	**5**	1	0	7	**3**	3	2	**1**	9
Total Volume	6	17	0	0	23	11	44	8	3	66	6	14	8	2	30	4	38	5	1	48
% App. Total	26.1	73.9	0	0		16.7	66.7	12.1	4.5		20	46.7	26.7	6.7		8.3	79.2	10.4	2.1	
PHF	.375	.708	.000	.000	.719	.688	.733	.500	.375	.786	.500	.700	.667	.500	.750	.333	.731	.417	.250	.706

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAAM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 1

Groups Printed- 3 Axle Vehicles

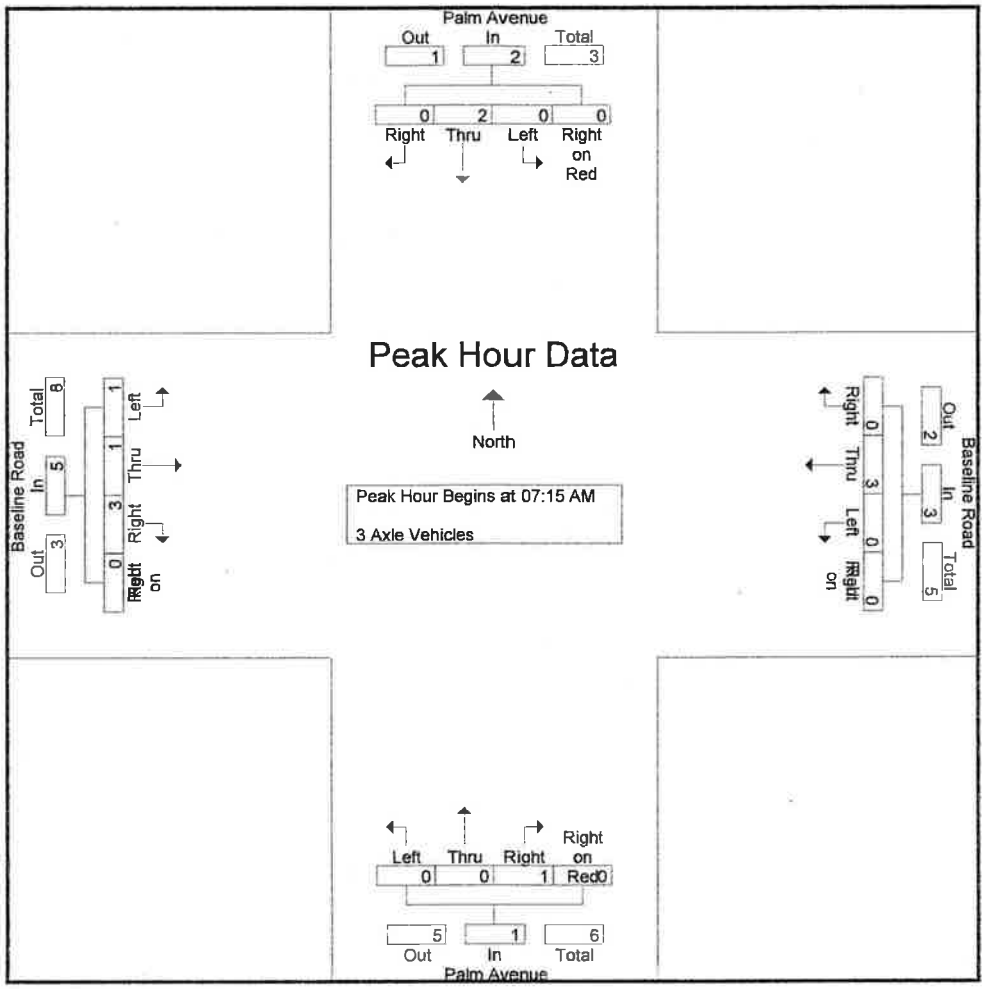
	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
07:00 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	3
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	3	0	5	6
07:30 AM	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
07:45 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	3	0	0	3	0	3	0	0	3	0	0	1	0	1	1	2	3	0	6	13
08:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2	2	0	0	4	6
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
08:45 AM	0	0	0	1	1	0	2	0	0	2	0	2	0	0	2	0	3	0	0	3	8
Total	0	0	0	1	1	0	5	0	0	5	0	2	0	0	2	2	6	0	0	8	16
Grand Total	0	3	0	1	4	0	8	0	0	8	0	2	1	0	3	3	8	3	0	14	29
Apprch %	0	75	0	25		0	100	0	0		0	66.7	33.3	0		21.4	57.1	21.4	0		
Total %	0	10.3	0	3.4	13.8	0	27.6	0	0	27.6	0	6.9	3.4	0	10.3	10.3	27.6	10.3	0	48.3	

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	3	0	5	6
07:30 AM	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
07:45 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
08:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	2	0	0	2	0	3	0	0	3	0	0	1	0	1	1	1	3	0	5	11
% App. Total	0	100	0	0		0	100	0	0		0	0	100	0		20	20	60	0		
PHF	.000	.250	.000	.000	.250	.000	.750	.000	.000	.750	.000	.000	.250	.000	.250	.250	.250	.250	.000	.250	.458

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAAM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:15 AM					07:15 AM					07:15 AM					07:15 AM				
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	3	0	5
+15 mins.	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
Total Volume	0	2	0	0	2	0	3	0	0	3	0	0	1	0	1	1	1	3	0	5
% App. Total	0	100	0	0		0	100	0	0		0	0	100	0		20	20	60	0	
PHF	.000	.250	.000	.000	.250	.000	.750	.000	.000	.750	.000	.000	.250	.000	.250	.250	.250	.250	.000	.250

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAAM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 1

Groups Printed- 4+ Axle Trucks

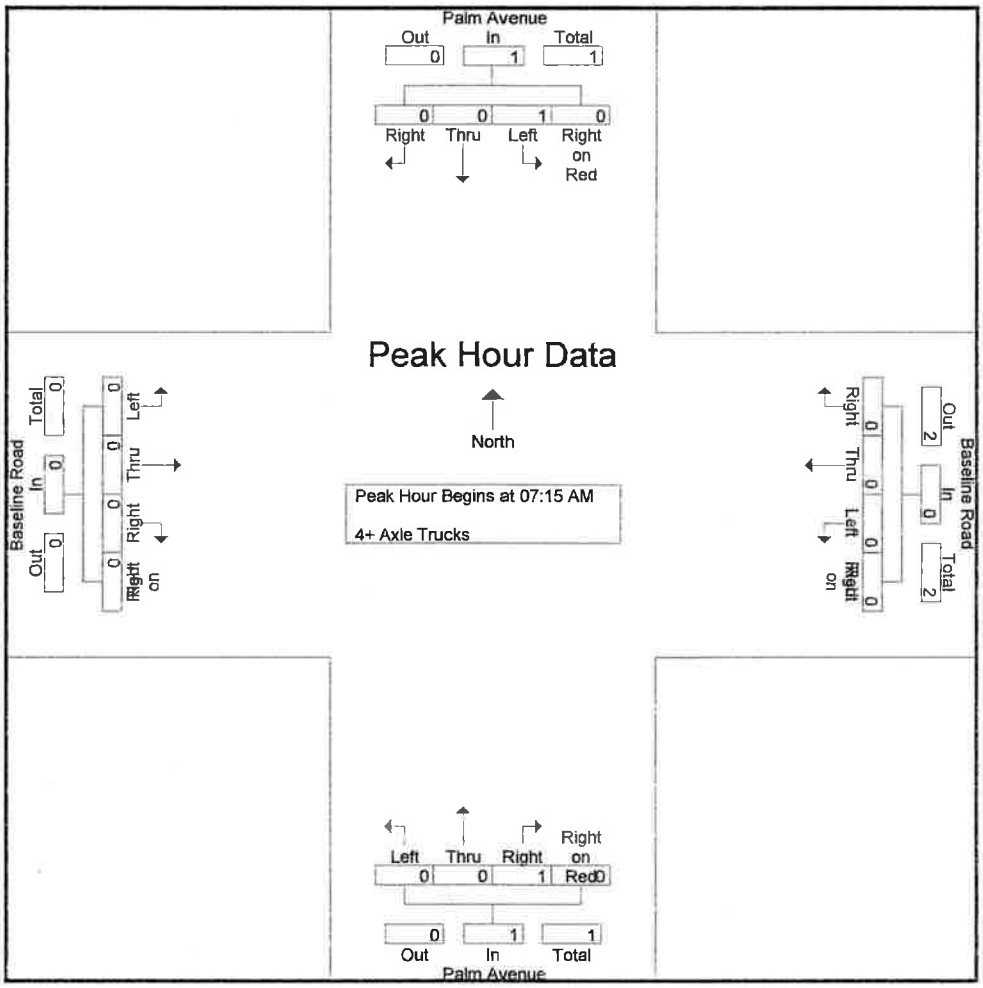
	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	1	0	0	1	4
Grand Total	1	0	0	0	1	0	2	1	0	3	0	0	1	0	1	0	1	0	0	1	6
Apprch %	100	0	0	0		0	66.7	33.3	0		0	0	100	0		0	100	0	0		
Total %	16.7	0	0	0	16.7	0	33.3	16.7	0	50	0	0	16.7	0	16.7	0	16.7	0	0	16.7	

	Palm Avenue Southbound					Baseline Road Westbound					Palm Avenue Northbound					Baseline Road Eastbound					
Start Time	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Left	Thru	Right	Right on Red	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
% App. Total	100	0	0	0		0	0	0	0		0	0	100	0		0	0	0	0		
PHF	.250	.000	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.000	.500

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

City of Highland
N/S: Palm Avenue
E/W: Baseline Road
Weather: Sunny

File Name : HIPABAAM
Site Code : 11122309
Start Date : 5/28/2008
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:15 AM					07:15 AM					07:15 AM					07:15 AM				
+0 mins.	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	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	0	0	0	0	0	0	0	0	0
Total Volume	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
% App. Total	100	0	0	0		0	0	0	0		0	0	100	0		0	0	0	0	
PHF	.250	.000	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.000