

PC 04-14-2022
#4
13 PAGES



Memorandum

To: David Crosariol, P.E., CTA Engineering & Surveying

From: Robert Paderna, P.E., Kimley-Horn
Curtis Yee, EIT, Kimley-Horn

Re: Summer Brook
Traffic Signal Warrant Evaluation - Green Valley Road at Deer Valley Road

Date: March 28, 2019 (*Revised*)

The purpose of this memorandum is to present the results of the traffic signal warrant evaluation completed for the Green Valley Road and Deer Valley Road intersection in El Dorado County, CA. We understand that El Dorado County has requested completion of the traffic signal warrant evaluation for the subject intersection as part of a condition of approval (COA) for the Summer Brook development project. This memorandum summarizes the signal warrant evaluation and our findings.

Data Collection

Kimley-Horn completed a site visit of the subject intersection on Monday, February 18, 2019, to observe posted speed limits, intersection lane configurations, and intersection geometry. Additionally, we collected 7-day, bi-directional roadway segment counts along each of the Green Valley Road and Deer Valley Road approaches to the subject intersection on the week of January 28, 2019. In addition, we collected intersection turning movement counts during the peak 8-hour window during the weekday for use in the traffic signal warrant evaluation. The traffic count data sheets are provided in Attachment A.

Traffic Control Warrants

We completed a traffic signal warrant evaluation for the subject intersection based on the methodologies noted in Section 4C.01 of the *California Manual on Uniform Traffic Control Devices (CMUTCD), 2014 Edition (with March 2018 revisions)*. The warrant evaluation was completed for the Existing plus Project traffic conditions, and included the review of Warrants 1 through 4 noted below.

- **Warrant 1 (Eight-Hour Vehicular Volume)** is intended for application at locations where there is either a large volume of intersecting traffic (Condition A-Warrant 1A) or where the traffic volume on a major street is so heavy that the traffic on the minor intersecting street experiences delay or conflict in entering or crossing the major street (Condition B-Warrant 1B). The need for a traffic control signal shall be considered if an engineering study finds that one of the conditions (Condition A and Condition B) exist for each of any 8 hours of an average day.
- **Warrant 2 (Four-Hour Vehicular Volume)** is intended for locations where the volume of intersecting traffic is the principal reason to consider installing a traffic control signal. The need for a traffic control signal shall be considered if an engineering study finds that, for each of any 4 hours of an average day the volume conditions are met.
- **Warrant 3 (Peak Hour)** is intended for use at a location where during any one (1) hour of an average day the minor street traffic experiences undue delay when entering or crossing the major street.
- **Warrant 4 (Pedestrian Volumes)** The Pedestrian Volume signal warrant is intended for application where the traffic volume on a major street is so heavy that pedestrians experience excessive delay in crossing the major street.

TM-R21-0001



Based on the evaluation of the abovementioned traffic signal warrants , it was determined that the warrant for a traffic signal at the Green Valley Road at Deer Valley Road intersection is not satisfied under Existing plus Project conditions. The results of the warrant evaluation is summarized in Table 1 below. Summary sheets for the warrant evaluation are included as Attachment B.

Table 1: Traffic Signal Warrant Evaluation Summary

Intersection	Traffic Signal Warrant			
	Warrant 1 8-hour volume	Warrant 2 4-hour volume	Warrant 3 Peak Hour	Warrant 4 Pedestrian Volume
Green Valley Road & Deer Valley Road	Not Satisfied	Not Satisfied	Not Satisfied	Not Satisfied

Equitable Share Responsibility

Because it was determined that the traffic signal warrant is not satisfied, the County has requested that the project applicant determine the project’s fair share percentage of the construction costs to install a traffic signal at the subject intersection. The project’s fair share contribution was calculated based on the project’s proportionate traffic contribution to the overall future traffic volumes at the subject intersection. Based on the Caltrans *Guide for the Preparation of Traffic Impact Studies* (2002), the fair share calculation for impacts at an intersection is calculated using the following equation:

$$P = T / (T_B - T_E)$$

Where:

P = The equitable share for the proposed project’s traffic impact.

T = The vehicle trips generated by the project during the peak hour of subject intersection in vehicles per hour, vph.

T_B = The forecasted traffic volume on impacted intersection at the time of general plan build-out, vph.

T_E = The existing traffic volume on the impacted intersection plus other approved projects that will generate traffic that has yet to be constructed/opened, vph.

Based on proposed project trips and traffic volumes contained in the *Summer Brook Traffic Impact Analysis* (dated February 14, 2007), we calculated a fair share of 3.9% for the proposed project’s traffic impact.

Summary and Recommendations

Based on the traffic signal warrant criteria contained in the *CMUTCD*, the Warrants 1 through 4 are not satisfied at the Green Valley Road at Deer Valley Road intersection under Existing plus Project conditions. Therefore, no traffic control or other intersection control modifications are required at this time. The proposed project’s fair share contribution percentage of construction costs to install a traffic signal was calculated to be 3.9%, which is equivalent to approximately \$10,000 to \$12,000 in 2019 dollars. Note that this fair share proportion represents an Opinion of Probable Construction Costs based on current market conditions. Kimley-Horn does not guarantee the accuracy of these estimates in future years as fluctuating market conditions and contractor pricing strategies are beyond our control.

Attachments:

Attachment A – Traffic Counts

Attachment B – Warrant Analysis Worksheets

National Data & Surveying Services

Intersection Turning Movement Count

Location: Green Valley Rd & Deer Valley Rd
 City: Rescue
 Control: 2-Way Stop (EB/WB)

Project ID: 19-07023-001
 Date: 2019-01-29

NS/EW Streets:		Total																TOTAL
		Green Valley Rd				Green Valley Rd				Deer Valley Rd				Deer Valley Rd				
		NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
NOON	1 NL	1 NT	1 NR	0 NU	1 SL	1 ST	1 SR	0 SU	0 EL	0.5 ET	0.5 ER	0 EU	0 WL	0.5 WT	0.5 WR	0 WU		
11:00 AM	2	83	2	0	4	62	2	0	3	0	4	0	2	0	2	0		
11:15 AM	3	82	0	0	5	81	4	0	3	0	0	0	0	0	9	0		
11:30 AM	0	86	4	0	9	81	2	0	5	1	4	0	3	0	9	0		
11:45 AM	2	54	2	0	3	73	3	0	5	0	3	0	1	0	9	0		
12:00 PM	5	61	5	0	6	80	0	0	2	0	3	0	1	0	6	0		
12:15 PM	1	77	0	0	6	96	3	1	2	0	2	0	0	0	9	0		
12:30 PM	0	67	3	0	4	72	3	0	2	0	0	0	0	0	5	0		
12:45 PM	1	76	1	0	8	94	2	0	2	0	1	0	0	1	6	0		
1:00 PM	4	80	1	1	2	95	2	0	1	0	4	0	1	0	7	0		
1:15 PM	4	68	3	0	5	93	1	0	3	0	0	0	1	0	5	0		
1:30 PM	1	75	1	0	7	84	3	0	4	0	2	0	3	0	6	0		
1:45 PM	0	78	1	0	5	123	2	0	1	0	3	0	3	0	6	0		
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU		
APPROACH %'s :	2.46%	94.98%	2.46%	0.11%	5.68%	91.83%	2.40%	0.09%	55.00%	1.67%	43.33%	0.00%	15.79%	1.05%	83.16%	0.00%		
PEAK HR :	01:00 PM - 02:00 PM																	
PEAK HR VOL :	9	301	6	1	19	395	8	0	9	0	9	0	8	0	24	0		
PEAK HR FACTOR :	0.563	0.941	0.500	0.250	0.679	0.803	0.667	0.000	0.563	0.000	0.563	0.000	0.667	0.000	0.857	0.000		
	0.922				0.812				0.750				0.889				0.889	
PM	1 NL	1 NT	1 NR	0 NU	1 SL	1 ST	1 SR	0 SU	0 EL	0.5 ET	0.5 ER	0 EU	0 WL	0.5 WT	0.5 WR	0 WU		
2:00 PM	4	101	3	0	7	89	1	0	5	0	1	0	2	0	6	0		
2:15 PM	3	82	2	0	4	117	5	0	2	0	1	0	2	0	6	0		
2:30 PM	1	71	1	0	3	102	2	0	4	0	4	0	2	0	7	0		
2:45 PM	2	88	3	0	6	106	4	0	6	0	4	0	2	0	4	0		
3:00 PM	10	86	2	0	12	114	8	0	5	0	2	0	1	0	6	0		
3:15 PM	5	88	2	0	17	143	8	0	3	0	4	0	1	0	5	0		
3:30 PM	4	95	1	0	11	160	7	0	4	0	5	0	3	0	4	0		
3:45 PM	3	77	8	0	9	146	2	0	0	0	0	0	1	0	7	0		
4:00 PM	3	91	3	0	9	143	4	0	4	0	0	0	2	0	5	0		
4:15 PM	2	101	3	0	11	158	6	0	5	0	2	0	6	0	3	0		
4:30 PM	11	105	5	0	12	135	7	0	6	0	2	0	3	0	7	0		
4:45 PM	6	84	3	0	15	151	5	0	3	0	1	0	2	0	3	0		
5:00 PM	6	102	0	0	11	162	7	0	4	0	1	0	4	0	5	0		
5:15 PM	4	99	2	0	11	163	1	0	3	0	1	0	2	0	6	0		
5:30 PM	2	98	2	0	9	125	2	0	6	0	1	0	2	0	10	0		
5:45 PM	2	72	0	0	9	153	5	0	3	0	2	0	1	0	3	0		
6:00 PM	1	62	1	1	9	133	10	0	2	0	1	0	1	0	4	0		
6:15 PM	3	47	0	0	5	136	7	0	3	0	1	0	2	0	3	0		
6:30 PM	1	47	0	0	2	122	2	0	5	0	4	0	0	0	2	0		
6:45 PM	2	36	0	0	4	77	4	0	2	0	1	0	0	0	3	0		
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU		
APPROACH %'s :	4.29%	93.31%	2.34%	0.06%	6.05%	90.61%	3.34%	0.00%	66.37%	0.00%	33.63%	0.00%	28.26%	0.00%	71.74%	0.00%		
PEAK HR :	04:15 PM - 05:15 PM																	
PEAK HR VOL :	25	392	11	0	49	606	25	0	18	0	6	0	15	0	18	0		
PEAK HR FACTOR :	0.568	0.933	0.550	0.000	0.817	0.935	0.893	0.000	0.750	0.000	0.750	0.000	0.625	0.000	0.643	0.000		
	0.884				0.944				0.750				0.825				0.964	

Prepared by NDS/ATD

VOLUME
Green Valley Rd & Deer Valley Rd

Day: Monday
Date: 1/28/2019

City: Rescue
Project #: CA19_7022_001

DAILY TOTALS						NB	SB	EB	WB	Total						
						5,105	5,837	365	394	11,701						
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL					
00:00	1	6	0	0	7	12:00	73	91	5	3	172					
00:15	3	7	0	0	10	12:15	70	85	7	3	165					
00:30	0	2	0	0	2	12:30	72	101	10	10	193					
00:45	0	4	6	21	1	12:45	82	297	88	365	6	28	9	25	185	715
01:00	1	5	0	1	7	13:00	75	102	7	4	188					
01:15	3	4	0	0	7	13:15	97	100	9	4	210					
01:30	4	3	0	0	7	13:30	76	98	5	6	185					
01:45	1	9	1	13	0	13:45	97	345	90	390	6	27	5	19	198	781
02:00	1	3	0	0	4	14:00	92	108	15	10	225					
02:15	3	4	0	0	7	14:15	94	123	6	13	236					
02:30	4	0	0	0	4	14:30	97	134	9	11	251					
02:45	1	9	2	9	0	14:45	61	344	129	494	10	40	9	43	209	921
03:00	3	1	1	0	5	15:00	103	143	6	8	260					
03:15	4	2	0	0	6	15:15	108	172	6	6	292					
03:30	2	0	0	0	2	15:30	97	122	6	8	233					
03:45	10	19	0	3	0	15:45	88	396	136	573	6	24	8	30	238	1023
04:00	6	1	1	0	8	16:00	81	176	10	1	268					
04:15	13	4	0	1	18	16:15	94	174	2	0	270					
04:30	20	1	2	2	25	16:30	91	171	4	8	274					
04:45	14	53	4	10	0	16:45	93	359	168	689	3	19	9	18	273	1085
05:00	20	5	0	2	27	17:00	91	162	2	6	261					
05:15	39	7	1	4	51	17:15	102	147	7	9	265					
05:30	35	11	3	4	53	17:30	66	152	10	5	233					
05:45	41	135	16	39	4	17:45	58	317	136	597	6	25	5	25	205	964
06:00	41	14	1	5	61	18:00	56	130	4	1	191					
06:15	67	19	3	7	96	18:15	57	138	8	2	205					
06:30	83	23	7	10	123	18:30	53	111	4	1	169					
06:45	107	298	34	90	1	18:45	28	194	90	469	3	19	1	5	122	687
07:00	117	29	6	9	161	19:00	35	90	3	3	131					
07:15	151	51	6	8	216	19:15	38	80	2	1	121					
07:30	128	78	14	21	241	19:30	34	65	3	2	104					
07:45	134	530	71	229	11	19:45	20	127	60	295	2	10	3	9	85	441
08:00	130	60	7	6	203	20:00	21	53	0	3	77					
08:15	134	57	10	5	206	20:15	23	56	2	0	81					
08:30	119	95	11	9	234	20:30	22	51	1	0	74					
08:45	122	505	84	296	6	20:45	18	84	44	204	0	3	2	5	64	296
09:00	88	70	7	8	173	21:00	26	33	0	1	60					
09:15	102	61	6	8	177	21:15	30	43	0	3	76					
09:30	98	57	3	9	167	21:30	14	36	1	1	52					
09:45	89	377	49	237	5	21:45	15	85	32	144	1	2	0	5	48	236
10:00	62	62	7	5	136	22:00	13	34	1	0	48					
10:15	65	60	4	13	142	22:15	4	25	0	1	30					
10:30	77	74	6	6	163	22:30	8	12	2	0	22					
10:45	54	258	58	254	7	22:45	10	35	21	92	0	3	0	1	31	131
11:00	77	48	10	10	145	23:00	2	16	0	0	18					
11:15	74	84	4	8	170	23:15	4	8	0	0	12					
11:30	84	65	7	3	159	23:30	2	13	0	0	15					
11:45	76	311	83	280	3	23:45	6	14	7	44	0	1	1	14	59	
TOTALS	2508	1481	165	208	4362	TOTALS	2597	4356	200	186	7339					
SPLIT %	57.5%	34.0%	3.8%	4.8%	37.3%	SPLIT %	35.4%	59.4%	2.7%	2.5%	62.7%					

DAILY TOTALS						NB	SB	EB	WB	Total	
						5,105	5,837	365	394	11,701	
AM Peak Hour	07:15	11:45	07:30	06:45	07:15	PM Peak Hour	15:00	16:00	14:00	14:00	16:00
AM Pk Volume	543	360	42	45	883	PM Pk Volume	396	689	40	43	1085
Pk Hr Factor	0.899	0.891	0.750	0.536	0.916	Pk Hr Factor	0.917	0.979	0.667	0.827	0.990
7 - 9 Volume	1035	525	71	74	1705	4 - 6 Volume	676	1266	44	43	2049
7 - 9 Peak Hour	07:15	08:00	07:30	07:00	07:15	4 - 6 Peak Hour	16:30	16:00	17:00	16:30	16:00
7 - 9 Pk Volume	543	396	42	45	883	4 - 6 Pk Volume	377	689	25	32	1085
Pk Hr Factor	0.899	0.779	0.750	0.536	0.916	Pk Hr Factor	0.924	0.979	0.625	0.889	0.990

Prepared by NDS/ATD

VOLUME

Green Valley Rd & Deer Valley Rd

Day: Tuesday
Date: 1/29/2019

City: Rescue
Project #: CA19_7022_001

DAILY TOTALS						NB	SB	EB	WB	Total						
						5,536	6,243	355	501	12,635						
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL					
00:00	4	9	0	0	13	12:00	73	90	6	8	177					
00:15	1	8	0	0	9	12:15	79	106	6	9	200					
00:30	2	8	0	0	10	12:30	72	79	1	5	157					
00:45	2	9	2	27	4	12:45	80	304	106	381	4	17	7	29	197	731
01:00	2	5	0	1	8	13:00	84	101	5	8	198					
01:15	2	2	0	0	4	13:15	76	99	2	6	183					
01:30	2	7	0	0	9	13:30	75	97	7	9	188					
01:45	4	10	4	18	0	13:45	82	317	136	433	5	19	9	32	232	801
02:00	1	1	0	0	2	14:00	111	97	6	7	221					
02:15	2	2	0	0	4	14:15	88	128	3	10	229					
02:30	3	2	1	0	6	14:30	74	109	7	9	199					
02:45	2	8	2	7	2	14:45	91	364	119	453	9	25	7	33	226	875
03:00	4	2	0	0	6	15:00	100	135	8	7	250					
03:15	1	3	1	0	5	15:15	94	170	8	5	277					
03:30	5	3	0	0	8	15:30	104	177	10	9	300					
03:45	5	15	3	11	0	15:45	87	385	163	645	0	26	9	30	259	1086
04:00	9	3	1	0	13	16:00	94	154	6	7	261					
04:15	12	3	0	3	18	16:15	109	170	9	9	297					
04:30	14	3	0	3	20	16:30	122	159	8	9	298					
04:45	18	53	4	13	1	16:45	96	421	173	656	2	25	4	29	275	1131
05:00	18	4	1	1	24	17:00	111	183	6	10	310					
05:15	42	8	1	7	58	17:15	107	177	3	9	296					
05:30	50	12	5	6	73	17:30	97	137	6	11	251					
05:45	41	151	17	41	0	17:45	74	389	172	669	7	22	6	36	259	1116
06:00	47	14	4	9	74	18:00	66	147	3	5	221					
06:15	90	21	10	10	131	18:15	50	148	7	7	212					
06:30	105	35	6	8	154	18:30	50	121	6	3	180					
06:45	139	381	33	103	9	18:45	40	206	89	505	3	19	2	17	134	747
07:00	142	45	6	12	205	19:00	33	75	3	4	115					
07:15	135	65	8	11	219	19:15	35	78	2	4	119					
07:30	151	91	14	27	283	19:30	41	71	3	4	119					
07:45	142	570	83	284	6	19:45	18	127	65	289	1	9	0	12	84	437
08:00	136	69	9	18	232	20:00	22	46	1	1	70					
08:15	151	76	4	12	243	20:15	20	72	3	1	96					
08:30	147	111	9	9	276	20:30	31	54	0	1	86					
08:45	115	549	94	350	7	20:45	38	111	38	210	1	5	3	6	80	332
09:00	110	57	6	10	183	21:00	24	37	0	0	61					
09:15	116	64	5	6	191	21:15	13	51	0	1	65					
09:30	79	71	10	7	167	21:30	13	36	2	0	51					
09:45	99	404	55	247	4	21:45	14	64	40	164	0	2	1	2	55	232
10:00	79	69	1	11	160	22:00	21	32	3	2	58					
10:15	90	49	9	5	153	22:15	4	22	0	0	26					
10:30	72	66	4	10	152	22:30	11	28	1	2	42					
10:45	72	313	71	255	7	22:45	9	45	15	97	0	4	0	4	24	150
11:00	86	68	7	4	165	23:00	8	12	0	1	21					
11:15	80	91	6	9	186	23:15	5	14	1	1	21					
11:30	97	96	9	14	216	23:30	4	14	0	0	18					
11:45	57	320	77	332	7	23:45	3	20	13	53	1	2	0	2	17	77
TOTALS	2783	1688	180	269	4920	TOTALS	2753	4555	175	232	7715					
SPLIT %	56.6%	34.3%	3.7%	5.5%	38.9%	SPLIT %	35.7%	59.0%	2.3%	3.0%	61.1%					

DAILY TOTALS						NB	SB	EB	WB	Total	
						5,536	6,243	355	501	12,635	
AM Peak Hour	07:30	11:30	06:45	07:30	07:30	PM Peak Hour	16:15	16:30	14:45	17:00	16:15
AM Pk Volume	580	369	37	70	1002	PM Pk Volume	438	692	35	36	1180
Pk Hr Factor	0.960	0.870	0.661	0.648	0.885	Pk Hr Factor	0.898	0.945	0.875	0.818	0.952
7 - 9 Volume	1119	634	63	109	1925	4 - 6 Volume	810	1325	47	65	2247
7 - 9 Peak Hour	07:30	08:00	07:15	07:30	07:30	4 - 6 Peak Hour	16:15	16:30	16:00	17:00	16:15
7 - 9 Pk Volume	580	350	37	70	1002	4 - 6 Pk Volume	438	692	25	36	1180
Pk Hr Factor	0.960	0.788	0.661	0.648	0.885	Pk Hr Factor	0.898	0.945	0.694	0.818	0.952

Prepared by NDS/ATD

VOLUME

Green Valley Rd & Deer Valley Rd

Day: Wednesday
Date: 1/30/2019

City: Rescue
Project #: CA19_7022_001

DAILY TOTALS						NB	SB	EB	WB	Total										
						5,725	6,307	418	501	12,951										
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL									
00:00	5	8	0	0	13	12:00	85	108	7	8	208									
00:15	2	8	1	1	12	12:15	86	98	5	5	194									
00:30	1	7	0	0	8	12:30	91	95	7	5	198									
00:45	3	11	5	28	0	1	0	1	0	1	8	41								
01:00	2	4	0	0	6	13:00	99	92	13	11	215									
01:15	3	3	0	2	8	13:15	116	110	6	12	244									
01:30	1	2	0	7	10	13:30	97	133	19	2	251									
01:45	3	9	1	10	0	3	12	7	31	13:45	77	389	131	466	8	46	6	31	932	
02:00	1	4	0	5	10	14:00	82	121	6	10	219									
02:15	3	2	0	0	5	14:15	118	130	7	10	265									
02:30	1	2	0	0	3	14:30	108	121	10	6	245									
02:45	5	10	0	8	0	5	5	23	14:45	84	392	103	475	9	32	5	31	930		
03:00	3	0	2	0	5	15:00	84	151	7	4	246									
03:15	4	1	0	0	5	15:15	103	149	5	2	259									
03:30	5	3	0	0	8	15:30	110	165	11	12	298									
03:45	4	16	1	5	0	2	0	5	23	15:45	81	378	135	600	8	31	8	26	1035	
04:00	5	0	1	1	7	16:00	95	136	4	10	245									
04:15	8	5	1	1	15	16:15	96	158	9	7	270									
04:30	13	4	0	4	21	16:30	83	148	11	10	252									
04:45	15	41	4	13	0	2	4	10	23	66	16:45	86	360	182	624	3	27	7	34	1045
05:00	29	5	0	4	38	17:00	117	189	9	11	326									
05:15	40	3	1	5	49	17:15	106	174	5	6	291									
05:30	43	7	4	4	58	17:30	94	155	4	16	269									
05:45	51	163	13	28	3	8	8	21	75	220	17:45	74	391	129	647	4	22	3	36	1096
06:00	48	14	5	4	71	18:00	68	148	2	4	222									
06:15	71	25	5	9	110	18:15	59	144	11	6	220									
06:30	112	30	4	11	157	18:30	64	125	5	4	198									
06:45	138	369	37	106	4	18	8	32	187	525	18:45	38	229	95	512	2	20	1	15	776
07:00	120	50	6	13	189	19:00	52	97	6	2	157									
07:15	148	61	10	9	228	19:15	37	75	1	5	118									
07:30	152	75	17	24	268	19:30	36	83	0	3	122									
07:45	137	557	89	275	4	37	7	53	237	922	19:45	35	160	56	311	1	8	1	11	490
08:00	137	65	13	13	228	20:00	23	56	1	3	83									
08:15	139	75	8	17	239	20:15	25	64	5	2	96									
08:30	131	106	8	12	257	20:30	37	57	3	2	99									
08:45	118	525	84	330	6	35	5	47	213	937	20:45	35	120	51	228	0	9	0	7	364
09:00	137	67	4	11	219	21:00	23	64	5	1	93									
09:15	122	63	6	6	197	21:15	27	50	0	0	77									
09:30	82	60	10	14	166	21:30	25	36	1	3	65									
09:45	96	437	78	268	6	26	6	37	186	768	21:45	10	85	43	193	3	9	1	5	292
10:00	95	55	6	11	167	22:00	14	44	2	1	61									
10:15	86	72	7	7	172	22:15	11	30	1	0	42									
10:30	91	76	8	7	182	22:30	5	18	0	0	23									
10:45	96	368	66	269	5	26	4	29	171	692	22:45	7	37	25	117	0	3	0	1	158
11:00	79	67	8	6	160	23:00	2	16	1	0	19									
11:15	91	78	7	7	183	23:15	3	16	0	0	19									
11:30	87	84	5	4	180	23:30	4	17	1	0	22									
11:45	75	332	91	320	7	27	9	26	182	705	23:45	2	11	14	63	0	2	0	76	
TOTALS	2838	1660	182	273	4953	TOTALS	2887	4647	236	228	7998									
SPLIT %	57.3%	33.5%	3.7%	5.5%	38.2%	SPLIT %	36.1%	58.1%	3.0%	2.9%	61.8%									

DAILY TOTALS						NB	SB	EB	WB	Total	
						5,725	6,307	418	501	12,951	
AM Peak Hour	07:15	11:45	07:15	07:30	07:30	PM Peak Hour	16:45	16:45	12:45	12:30	16:45
AM Pk Volume	574	392	44	61	972	PM Pk Volume	403	700	46	41	1164
Pk Hr Factor	0.944	0.907	0.647	0.635	0.907	Pk Hr Factor	0.861	0.926	0.605	0.788	0.893
7 - 9 Volume	1082	605	72	100	1859	4 - 6 Volume	751	1271	49	70	2141
7 - 9 Peak Hour	07:15	07:45	07:15	07:30	07:30	4 - 6 Peak Hour	16:45	16:45	16:15	16:45	16:45
7 - 9 Pk Volume	574	335	44	61	972	4 - 6 Pk Volume	403	700	32	40	1164
Pk Hr Factor	0.944	0.790	0.647	0.635	0.907	Pk Hr Factor	0.861	0.926	0.727	0.625	0.893

Prepared by NDS/ATD

VOLUME

Green Valley Rd & Deer Valley Rd

Day: Thursday
Date: 1/31/2019

City: Rescue
Project #: CA19_7022_001

DAILY TOTALS						NB	SB	EB	WB	Total						
						5,749	6,512	393	462	13,116						
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL					
00:00	3	7	0	0	10	12:00	89	96	12	8	205					
00:15	4	6	0	0	10	12:15	96	102	1	3	202					
00:30	2	7	0	0	9	12:30	89	114	8	6	217					
00:45	1	10	4	24	5	12:45	86	360	110	422	4	25	14	31	214	838
01:00	3	3	0	0	6	13:00	86	91	3	14	194					
01:15	2	6	0	0	8	13:15	93	115	6	4	218					
01:30	3	2	0	0	5	13:30	88	98	6	5	197					
01:45	3	11	0	11	0	13:45	78	345	89	393	8	23	8	31	183	792
02:00	1	3	0	0	4	14:00	86	117	9	6	218					
02:15	1	1	2	0	4	14:15	110	131	5	8	254					
02:30	4	2	0	0	6	14:30	102	131	6	9	248					
02:45	3	9	2	8	0	14:45	92	390	117	496	10	30	13	36	232	952
03:00	2	1	0	0	3	15:00	102	173	7	8	290					
03:15	1	0	0	0	1	15:15	94	159	3	7	263					
03:30	5	0	0	0	5	15:30	115	151	4	7	277					
03:45	6	14	5	6	0	15:45	101	412	149	632	7	21	2	24	259	1089
04:00	5	0	1	0	6	16:00	77	170	9	15	271					
04:15	12	1	0	2	15	16:15	116	159	8	5	288					
04:30	12	5	1	2	20	16:30	95	186	6	6	293					
04:45	13	42	2	8	0	16:45	94	382	143	658	3	26	5	31	245	1097
05:00	27	5	0	3	35	17:00	87	178	3	6	274					
05:15	37	7	2	5	51	17:15	110	160	2	4	276					
05:30	41	8	1	8	58	17:30	103	169	11	6	289					
05:45	39	144	15	35	0	17:45	87	387	157	664	2	18	10	26	256	1095
06:00	48	13	8	5	74	18:00	63	174	3	5	245					
06:15	81	26	6	9	122	18:15	61	144	8	1	214					
06:30	124	29	8	6	167	18:30	61	114	1	3	179					
06:45	137	390	42	110	5	18:45	48	233	96	528	2	14	2	11	148	786
07:00	129	47	5	8	189	19:00	39	96	5	3	143					
07:15	155	52	8	8	223	19:15	32	84	3	0	119					
07:30	143	94	13	20	270	19:30	36	69	2	4	111					
07:45	145	572	99	292	11	19:45	23	130	66	315	3	13	0	7	92	465
08:00	123	83	8	16	230	20:00	30	54	2	0	86					
08:15	143	85	8	11	247	20:15	29	76	3	0	108					
08:30	156	103	6	13	278	20:30	35	78	2	0	115					
08:45	138	560	82	353	11	20:45	22	116	50	258	2	9	2	2	76	385
09:00	107	65	8	6	186	21:00	27	42	4	1	74					
09:15	100	65	14	6	185	21:15	19	61	1	2	83					
09:30	105	74	8	7	194	21:30	13	37	1	2	53					
09:45	109	421	74	278	5	21:45	10	69	31	171	0	6	0	5	41	251
10:00	82	82	11	8	183	22:00	17	50	0	2	69					
10:15	78	81	11	6	176	22:15	13	46	1	2	62					
10:30	71	80	10	10	171	22:30	8	23	0	1	32					
10:45	91	322	81	324	4	22:45	3	41	22	141	1	2	0	5	26	189
11:00	96	99	4	9	208	23:00	4	14	0	0	18					
11:15	90	62	7	11	170	23:15	6	19	0	0	25					
11:30	93	87	10	5	195	23:30	4	8	1	0	13					
11:45	89	368	86	334	8	23:45	7	21	10	51	1	2	1	1	19	75
TOTALS	2863	1783	204	252	5102	TOTALS	2886	4729	189	210	8014					
SPLIT %	56.1%	34.9%	4.0%	4.9%	38.9%	SPLIT %	36.0%	59.0%	2.4%	2.6%	61.1%					

DAILY TOTALS						NB	SB	EB	WB	Total	
						5,749	6,512	393	462	13,116	
AM Peak Hour	07:00	11:45	08:45	07:30	07:45	PM Peak Hour	15:00	16:30	14:00	12:30	15:45
AM Pk Volume	572	398	41	58	1021	PM Pk Volume	412	667	30	38	1111
Pk Hr Factor	0.923	0.873	0.732	0.725	0.918	Pk Hr Factor	0.896	0.897	0.750	0.679	0.948
7 - 9 Volume	1132	645	70	97	1944	4 - 6 Volume	769	1322	44	57	2192
7 - 9 Peak Hour	07:00	07:45	07:15	07:30	07:45	4 - 6 Peak Hour	16:45	16:30	16:00	16:00	16:15
7 - 9 Pk Volume	572	370	40	58	1021	4 - 6 Pk Volume	394	667	26	31	1100
Pk Hr Factor	0.923	0.898	0.769	0.725	0.918	Pk Hr Factor	0.895	0.897	0.722	0.517	0.939

Prepared by NDS/ATD

VOLUME

Green Valley Rd & Deer Valley Rd

Day: Friday
Date: 2/1/2019

City: Rescue
Project #: CA19_7022_001

DAILY TOTALS						NB	SB	EB	WB	Total							
						5,769	6,486	397	450	13,102							
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL						
00:00	7	12	1	0	20	12:00	92	101	8	5	206						
00:15	5	10	1	0	16	12:15	77	97	8	3	185						
00:30	5	4	0	0	9	12:30	91	119	7	11	228						
00:45	5	22	8	34	0	2	0	0	0	0	200						
01:00	3	6	0	0	9	12:45	82	342	102	419	8	31	8	27	200	819	
01:15	0	2	0	0	2	13:00	111	99	7	9	226						
01:30	0	6	0	0	6	13:15	93	121	7	5	226						
01:45	0	3	2	16	0	0	0	0	0	0	202						
02:00	1	3	0	0	4	13:30	82	106	6	8	202						
02:15	0	3	1	0	4	13:45	79	365	138	464	11	31	2	24	230	884	
02:30	3	1	0	0	4	14:00	94	125	10	7	236						
02:45	3	7	1	8	0	0	0	0	0	0	269						
03:00	3	1	0	0	4	14:15	115	140	5	9	269						
03:15	2	1	1	0	4	14:30	84	137	11	8	240						
03:30	3	4	0	0	7	14:45	93	386	141	543	6	32	5	29	245	990	
03:45	8	16	1	7	0	0	0	0	0	0	308						
04:00	4	1	1	0	6	15:00	113	180	8	7	323						
04:15	16	3	0	0	19	15:15	138	164	9	12	323						
04:30	12	1	1	4	18	15:30	92	167	6	6	271						
04:45	13	45	4	9	0	0	0	0	0	0	273						
05:00	25	5	1	1	32	15:45	88	431	160	671	14	37	11	36	273	1175	
05:15	44	6	2	6	58	16:00	112	159	8	9	288						
05:30	30	4	4	1	39	16:15	118	173	10	3	304						
05:45	44	143	21	36	2	9	0	4	12	17	60	16:30	97	132	4	9	242
06:00	44	11	0	7	62	16:45	98	425	163	627	2	24	8	29	271	1105	
06:15	66	21	4	6	97	17:00	104	149	10	1	264						
06:30	116	36	5	9	166	17:15	104	160	4	5	273						
06:45	95	321	33	101	6	15	2	24	136	461	18:00	64	134	2	3	203	
07:00	123	56	4	10	193	18:15	56	135	6	4	201						
07:15	151	73	7	10	241	18:30	53	87	3	2	145						
07:30	149	96	11	24	280	18:45	41	214	75	431	2	13	4	13	122	671	
07:45	142	565	81	306	5	27	9	53	237	951	19:00	46	78	1	4	129	
08:00	121	59	12	13	205	19:15	33	85	3	2	123						
08:15	126	69	11	14	220	19:30	46	65	2	2	115						
08:30	138	87	10	12	247	19:45	25	150	57	285	0	6	1	9	83	450	
08:45	130	515	103	318	7	40	9	48	249	921	20:00	19	45	1	1	66	
09:00	115	63	8	13	199	20:15	30	61	2	1	94						
09:15	118	67	5	6	196	20:30	28	54	2	4	88						
09:30	108	56	12	10	186	20:45	36	113	56	216	1	6	3	9	96	344	
09:45	96	437	69	255	6	31	6	35	177	758	21:00	18	61	2	1	82	
10:00	72	68	9	5	154	21:15	19	64	2	2	87						
10:15	94	68	6	11	179	21:30	19	42	1	2	64						
10:30	95	85	9	13	202	21:45	22	78	51	218	1	6	2	7	76	309	
10:45	94	355	84	305	8	32	13	42	199	734	22:00	17	49	0	1	67	
11:00	97	66	4	6	173	22:15	15	36	1	0	52						
11:15	102	79	8	3	192	22:30	13	32	0	1	46						
11:30	94	119	4	11	228	22:45	10	55	35	152	1	2	0	2	46	211	
11:45	86	379	89	353	6	22	7	27	188	781	23:00	11	28	2	1	42	
TOTALS	2808	1748	182	245	4983	TOTALS	2961	4738	215	205	8119						
SPLIT %	56.4%	35.1%	3.7%	4.9%	38.0%	SPLIT %	36.5%	58.4%	2.6%	2.5%	62.0%						

DAILY TOTALS						NB	SB	EB	WB	Total	
						5,769	6,486	397	450	13,102	
AM Peak Hour	07:00	11:30	08:00	07:30	07:15	PM Peak Hour	14:45	15:00	15:30	15:15	15:00
AM Pk Volume	565	406	40	60	963	PM Pk Volume	436	671	38	38	1175
Pk Hr Factor	0.935	0.853	0.833	0.625	0.860	Pk Hr Factor	0.790	0.932	0.679	0.792	0.909
7 - 9 Volume	1080	624	67	101	1872	4 - 6 Volume	792	1238	48	47	2125
7 - 9 Peak Hour	07:00	08:00	08:00	07:30	07:15	4 - 6 Peak Hour	16:00	16:45	16:15	16:00	16:00
7 - 9 Pk Volume	565	318	40	60	963	4 - 6 Pk Volume	425	633	26	29	1105
Pk Hr Factor	0.935	0.772	0.833	0.625	0.860	Pk Hr Factor	0.900	0.971	0.650	0.806	0.909

Prepared by NDS/ATD

VOLUME

Green Valley Rd & Deer Valley Rd

Day: Saturday
Date: 2/2/2019

City: Rescue
Project #: CA19_7022_001

DAILY TOTALS						NB	SB	EB	WB	Total	
						4,190	4,739	253	357	9,539	
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	6	22	0	0	28	12:00	88	77	4	13	182
00:15	4	15	0	0	19	12:15	87	84	2	12	185
00:30	3	9	0	0	12	12:30	114	86	3	10	213
00:45	3	16	13	59	0	12:45	106	395	90	337	205
01:00	1	12	0	0	13	13:00	77	91	5	15	188
01:15	3	8	0	1	12	13:15	104	86	8	2	200
01:30	11	6	2	0	19	13:30	81	107	5	6	199
01:45	1	16	9	35	0	13:45	95	357	104	388	211
02:00	3	12	1	0	16	14:00	89	103	8	12	212
02:15	0	3	0	0	3	14:15	85	94	4	5	188
02:30	1	1	1	0	3	14:30	89	88	4	6	187
02:45	1	5	3	19	0	14:45	68	331	102	387	203
03:00	1	1	0	0	2	15:00	77	127	7	4	215
03:15	1	5	0	0	6	15:15	64	96	3	5	168
03:30	2	5	0	0	7	15:30	69	108	4	11	192
03:45	6	10	3	14	0	15:45	68	278	121	452	203
04:00	1	3	0	0	4	16:00	72	110	3	5	190
04:15	9	5	0	0	14	16:15	84	104	1	4	193
04:30	8	2	1	0	11	16:30	72	101	5	7	185
04:45	10	28	1	11	0	16:45	59	287	89	404	211
05:00	7	3	0	2	12	17:00	69	115	0	5	189
05:15	12	6	0	0	18	17:15	91	95	5	1	192
05:30	11	4	1	2	18	17:30	51	103	5	4	163
05:45	11	41	3	16	0	17:45	54	265	71	384	211
06:00	17	4	2	2	25	18:00	39	75	4	5	123
06:15	24	2	1	3	30	18:15	39	74	4	6	123
06:30	18	6	2	5	31	18:30	42	65	3	2	112
06:45	35	94	9	21	0	18:45	32	152	62	276	211
07:00	23	7	1	3	34	19:00	31	54	3	2	90
07:15	32	19	5	3	59	19:15	34	46	2	1	83
07:30	45	30	4	4	83	19:30	39	54	0	2	95
07:45	38	138	30	86	1	19:45	31	135	51	205	211
08:00	42	27	6	7	82	20:00	18	46	1	2	67
08:15	49	39	2	7	97	20:15	31	42	2	2	77
08:30	63	30	4	2	99	20:30	29	43	2	4	78
08:45	65	219	50	146	3	20:45	25	103	33	164	211
09:00	76	45	5	4	130	21:00	18	53	3	3	77
09:15	84	37	5	3	129	21:15	18	51	2	3	74
09:30	82	70	5	6	163	21:30	20	57	2	1	80
09:45	93	335	62	214	8	21:45	15	71	59	220	211
10:00	84	80	5	10	179	22:00	11	30	1	0	42
10:15	109	85	5	4	203	22:15	18	40	2	1	61
10:30	79	77	7	9	172	22:30	19	31	0	0	50
10:45	84	356	79	321	6	22:45	11	59	32	133	211
11:00	85	95	10	9	199	23:00	8	34	1	1	44
11:15	132	95	10	10	247	23:15	12	21	0	1	34
11:30	119	80	4	10	213	23:30	5	20	0	0	25
11:45	133	469	80	350	7	23:45	5	30	22	97	211
TOTALS	1727	1292	114	145	3278	TOTALS	2463	3447	139	212	6261
SPLIT %	52.7%	39.4%	3.5%	4.4%	34.4%	SPLIT %	39.3%	55.1%	2.2%	3.4%	65.6%

DAILY TOTALS						NB	SB	EB	WB	Total	
						4,190	4,739	253	357	9,539	
AM Peak Hour	11:15	11:00	10:30	11:30	11:00	PM Peak Hour	12:30	15:00	13:15	12:15	13:15
AM Pk Volume	472	350	33	46	890	PM Pk Volume	401	452	27	43	822
Pk Hr Factor	0.887	0.921	0.825	0.885	0.901	Pk Hr Factor	0.879	0.890	0.844	0.717	0.969
7 - 9 Volume	357	232	26	35	650	4 - 6 Volume	552	788	23	43	1406
7 - 9 Peak Hour	08:00	08:00	07:15	07:30	08:00	4 - 6 Peak Hour	16:30	16:15	16:30	16:00	16:00
7 - 9 Pk Volume	319	146	16	23	400	4 - 6 Pk Volume	291	409	12	22	724
Pk Hr Factor	0.842	0.730	0.667	0.821	0.820	Pk Hr Factor	0.799	0.889	0.600	0.786	0.938

Prepared by NDS/ATD

VOLUME

Green Valley Rd & Deer Valley Rd

Day: Sunday
Date: 2/3/2019

City: Rescue
Project #: CA19_7022_001

DAILY TOTALS											Total					
				NB	SB			EB	WB			Total				
				3,315	3,897			255	270			7,737				
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL					
00:00	2	20	0	1	23	12:00	73	81	4	5	163					
00:15	6	20	0	0	26	12:15	81	85	5	6	177					
00:30	4	13	0	0	17	12:30	73	101	7	3	184					
00:45	4	16	14	67	0	12:45	82	309	78	345	6	22	3	17	169	693
01:00	7	12	2	0	21	13:00	80	90	3	7	180					
01:15	3	5	0	0	8	13:15	82	100	5	6	193					
01:30	3	10	0	1	14	13:30	85	92	3	5	185					
01:45	4	17	6	33	0	13:45	72	319	107	389	6	17	4	22	189	747
02:00	1	9	1	0	11	14:00	91	95	3	5	194					
02:15	0	7	0	0	7	14:15	89	103	8	4	204					
02:30	4	5	0	0	9	14:30	87	116	7	6	216					
02:45	3	8	5	26	0	14:45	79	346	104	418	4	22	6	21	193	807
03:00	1	3	0	1	5	15:00	80	102	7	4	193					
03:15	3	1	1	0	5	15:15	65	90	1	4	160					
03:30	2	3	0	0	5	15:30	39	81	6	5	131					
03:45	7	13	3	10	1	15:45	43	227	69	342	2	16	8	21	122	606
04:00	1	2	1	0	4	16:00	29	63	1	3	96					
04:15	3	3	0	0	6	16:15	33	54	0	5	92					
04:30	4	2	1	0	7	16:30	28	57	2	1	88					
04:45	4	12	1	8	0	16:45	25	115	55	229	1	4	3	12	84	360
05:00	5	4	0	0	9	17:00	31	49	2	5	87					
05:15	7	4	0	0	11	17:15	29	45	3	3	80					
05:30	11	2	0	2	15	17:30	41	38	2	3	84					
05:45	2	25	2	12	1	17:45	28	129	40	172	1	8	4	15	73	324
06:00	6	2	0	2	10	18:00	27	43	5	6	81					
06:15	27	3	0	1	31	18:15	24	51	7	2	84					
06:30	8	7	0	0	15	18:30	25	48	1	2	76					
06:45	16	57	10	22	1	18:45	28	104	45	187	2	15	4	14	79	320
07:00	15	6	1	2	24	19:00	33	44	3	2	82					
07:15	14	9	1	0	24	19:15	87	85	27	5	204					
07:30	16	17	0	4	37	19:30	78	102	11	8	199					
07:45	39	84	8	40	4	19:45	58	256	122	353	7	48	6	21	193	678
08:00	27	18	8	4	57	20:00	42	100	7	5	154					
08:15	34	17	4	2	57	20:15	40	77	5	1	123					
08:30	45	25	7	5	82	20:30	38	55	4	3	100					
08:45	48	154	32	92	2	20:45	31	151	45	277	0	16	0	9	76	453
09:00	55	27	2	7	91	21:00	21	38	2	2	63					
09:15	63	34	0	2	99	21:15	20	27	0	0	47					
09:30	45	47	7	7	106	21:30	16	32	2	1	51					
09:45	79	242	38	146	2	21:45	11	68	29	126	1	5	0	3	41	202
10:00	73	58	1	11	143	22:00	12	29	0	0	41					
10:15	59	45	5	6	115	22:15	9	14	1	0	24					
10:30	66	63	6	4	139	22:30	5	19	0	0	24					
10:45	88	286	63	229	9	22:45	9	35	15	77	0	1	0	24	113	
11:00	74	62	4	7	147	23:00	8	8	0	0	16					
11:15	85	62	2	7	156	23:15	5	11	0	0	16					
11:30	83	76	4	9	172	23:30	3	8	0	0	11					
11:45	82	324	63	263	3	23:45	2	18	7	34	0	0	9	52		
TOTALS	1238	948	81	115	2382	TOTALS	2077	2949	174	155	5355					
SPLIT %	52.0%	39.8%	3.4%	4.8%	30.8%	SPLIT %	38.8%	55.1%	3.2%	2.9%	69.2%					

DAILY TOTALS											Total	
				NB	SB			EB	WB			Total
				3,315	3,897			255	270			7,737
AM Peak Hour	10:45	11:45	10:15	10:45	11:45	PM Peak Hour	14:00	14:15	19:15	19:15	14:00	
AM Pk Volume	330	330	24	32	600	PM Pk Volume	346	425	52	24	807	
Pk Hr Factor	0.938	0.817	0.667	0.889	0.924	Pk Hr Factor	0.951	0.916	0.481	0.750	0.934	
7 - 9 Volume	238	132	27	21	418	4 - 6 Volume	244	401	12	27	684	
7 - 9 Peak Hour	08:00	08:00	07:45	08:00	08:00	4 - 6 Peak Hour	17:00	16:00	16:30	17:00	16:00	
7 - 9 Pk Volume	154	92	23	15	282	4 - 6 Pk Volume	139	229	8	15	360	
Pk Hr Factor	0.802	0.719	0.719	0.750	0.820	Pk Hr Factor	0.787	0.909	0.667	0.750	0.938	

Attachment B
Warrant Analysis Worksheet

TRAFFIC SIGNAL VOLUME WARRANT ANALYSIS (2012 MUTCD)

MAJOR STREET: Green Valley Road NB SB # OF APPROACH LANES: 1
 MINOR STREET: Deer Valley Road EB WB # OF APPROACH LANES: 1
 CITY, STATE: El Dorado County, CA
 COMMENTS: Existing Conditions

ISOLATED COMMUNITY WITH POPULATION LESS THAN 10,000 (Y OR N): N
 85TH PERCENTILE SPEED GREATER THAN 40 MPH ON MAJOR STREET (Y OR N): Y

THRESHOLD VALUES	MAJOR ST TWO-WAY TRAFFIC	MINOR ST TRAFFIC HEAVY LEG	Ped Count CROSSING MAJOR ST	WARRANT 1 - Condition A, Part 1			WARRANT 1 - Condition B, Part 1			WARRANT 1 - Condition A, Part 2			WARRANT 1 - Condition B, Part 2			WARRANT 2	WARRANT 3	WARRANT 4	
				MAIN LINE	SIDE STREET	BOTH MET	MAIN LINE	SIDE STREET	BOTH MET	MAIN LINE	SIDE STREET	BOTH MET	MAIN LINE	SIDE STREET	BOTH MET	Four-Hour	Peak Hour	Ped Volume (Four-hour)	Ped Volume (Peak-hour)
02:00 AM TO 03:00 AM				350	105		525	53		280	64		420	42		60	75	100	150
03:00 AM TO 04:00 AM																			
04:00 AM TO 05:00 AM																			
05:00 AM TO 06:00 AM																			
06:00 AM TO 07:00 AM																			
07:00 AM TO 08:00 AM																			
08:00 AM TO 09:00 AM																			
09:00 AM TO 10:00 AM																			
10:00 AM TO 11:00 AM																			
11:00 AM TO 12:00 PM	615	35	0	Y			Y			Y			Y						
12:00 PM TO 01:00 PM	635	27	0	Y			Y			Y			Y						
01:00 PM TO 02:00 PM	708	32	0	Y			Y			Y			Y						
02:00 PM TO 03:00 PM	768	31	0	Y			Y			Y			Y						
03:00 PM TO 04:00 PM	921	28	0	Y			Y			Y			Y						
04:00 PM TO 05:00 PM	880	31	0	Y			Y			Y			Y						
05:00 PM TO 06:00 PM	986	33	0	Y			Y			Y			Y						
06:00 PM TO 07:00 PM	672	15	0	Y			Y			Y			Y						
07:00 PM TO 08:00 PM																			
08:00 PM TO 09:00 PM																			
09:00 PM TO 10:00 PM																			
	6,285	232		8	0	0	8	0	0	8	0	0	8	0	0	0	0	0	0
				8 HOURS NEEDED			8 HOURS NEEDED			8 HOURS NEEDED for both Condition A & B			4 HRS NEEDED	1 HR NEEDED	4 HRS NEEDED	1 HR NEEDED			
				NOT SATISFIED			NOT SATISFIED			NOT SATISFIED			NOT SATISFIED	NOT SATISFIED	NOT SATISFIED	NOT SATISFIED			