

MEMORANDUM

DATE: September 24th, 2014

TO: Don Overson, P.E., Town of Vineyard

CC: Craig Friant, P.E.; Vijay Kornala, P.E., P.T.O.E.

FROM: Imanuel Aswandi, P.E., P.T.O.E.

SUBJECT: Stop Sign Engineering Study for Vineyard, Utah



The Town of Vineyard hired J-U-B Engineers, Inc. (J-U-B) to conduct stop sign engineering studies for two intersections: 400 South/Holdaway Road and Lake View Drive/475 East. These studies evaluated traffic operations, volumes, crash history, and sight-distances to determine whether the intersections meet the *Manual on Uniform Traffic Control Devices* (MUTCD) guidance criteria for the installation of stops signs on the minor approach as well as multi-way stop signs.

This technical memorandum reviewed the following for both study locations:

- The traffic volume on all approaches
- Reported crash frequency
- The sight distance available on all approaches

TRAFFIC VOLUME AND CRASH DATA

According to the MUTCD, a stop sign should be used when a full stop is required on an approach and to remove driver confusion by clarifying the driver's right of way. It should only be installed on the minor street (Two-Way Stop Controlled) or on all approaches (All-Way Stop Controlled), however an All-Way Stop is not always necessary. Criteria to be satisfied for the installation of stop signs include the traffic volume and the number of reported crashes. A stop sign is required if one or more criteria are met in **Table 1**. **Table 1** summarizes the guidance and criteria for considering Two-Way Stop and All-Way Stop controlled intersections per the MUTCD.

Table 1. Stop Sign Application Guidance - Traffic Volume and Number of Crashes

Control Type	Guidance/Criteria
Two-Way Stop Control	>6000 veh/day on major street ≥3 crashes susceptible to correction by the installation of a stop sign in 1 year or ≥5 crashes susceptible to correction by the installation of a stop sign in 2 years
All-Way Stop Control	≥300 veh/hr total hourly entering traffic on major street approaches for any 8 hours of an average day ≥200 veh/hr total hourly entering traffic on minor street approaches for any 8 hours of an average day ≥5 crashes in 1 year

Source: MUTCD 2009 Edition with Revision Numbers 1 and 2 incorporated, dated May 2012, Sections 2B.06, 2B.07



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L2 Data Collection, J-U-B's sub consultant, collected the traffic data from Tuesday, June 24th, 2014 to Thursday, June 26th, 2014. J-U-B also collected crash data from 2011 to present for the two intersections. The collected traffic and crash data is included in **Appendix 1** and **Appendix 2**, respectively. **Table 2** and **Table 3** show the results of the stop sign analysis based on the traffic volume and number of crashes for the intersections of 400 South/Holdaway Road and Lake View Drive/475 East, respectively. Based on the analysis of the traffic volumes and crash data, the MUTCD guidance criteria for installing stop signs at the two study locations are not satisfied under existing conditions.

Table 2. Stop Sign Analysis for 400 South/Holdaway Road Intersection

Condition	Date	Number of Vehicles				Number of Crashes	Criteria for STOP sign
		400 South (Major Street)		Holdaway Road (Minor Street)			
Two-Way Stop Control	Wednesday 25-Jun-14	ADT (veh/day)				0	NOT Satisfied
		1406		416			
All-Way Stop Control	Wednesday 25-Jun-14	Start Time	End Time	Hourly Volume (veh/hour)		0	NOT Satisfied
		12:00 PM	1:00 PM	94	9		
		1:00 PM	2:00 PM	82	10		
		2:00 PM	3:00 PM	68	7		
		4:00 PM	5:00 PM	74	6		
		5:00 PM	6:00 PM	147	12		
		6:00 PM	7:00 PM	105	20		
		7:00 PM	8:00 PM	82	12		
		8:00 PM	9:00 PM	81	11		
		Average		92	11		

Table 3. Stop Sign Warrant Analysis for 475 South/Lake View Drive Intersection

Condition	Date	Number of Vehicles				Number of Crashes	Criteria for STOP sign
		Lake View Drive (Major Street)		475 East (Minor Street)			
Two-Way Stop Control	Wednesday 25-Jun-14	ADT (veh/day)				0	NOT Satisfied
		1789		1191			
All-Way Stop Control	Tuesday 24-Jun-14	Start Time	End Time	Hourly Volume (veh/hour)		0	NOT Satisfied
		12:00 PM	1:00 PM	97	37		
		2:00 PM	3:00 PM	89	26		
		3:00 PM	4:00 PM	88	28		
		5:00 PM	6:00 PM	116	32		
		6:00 PM	7:00 PM	104	28		
		7:00 PM	8:00 PM	73	26		
		8:00 PM	9:00 PM	78	27		
		9:00 PM	10:00 PM	70	21		
		Average		89	28		

In addition, the MUTCD states that the use of stop or yield signs should be considered when the total volume entering the intersection from all approaches averages more than 2,000 vehicles per day. The collected traffic data for all vehicles entering the intersection is shown in **Table 4**. The traffic volumes do not meet this MUTCD criteria for stop signs.

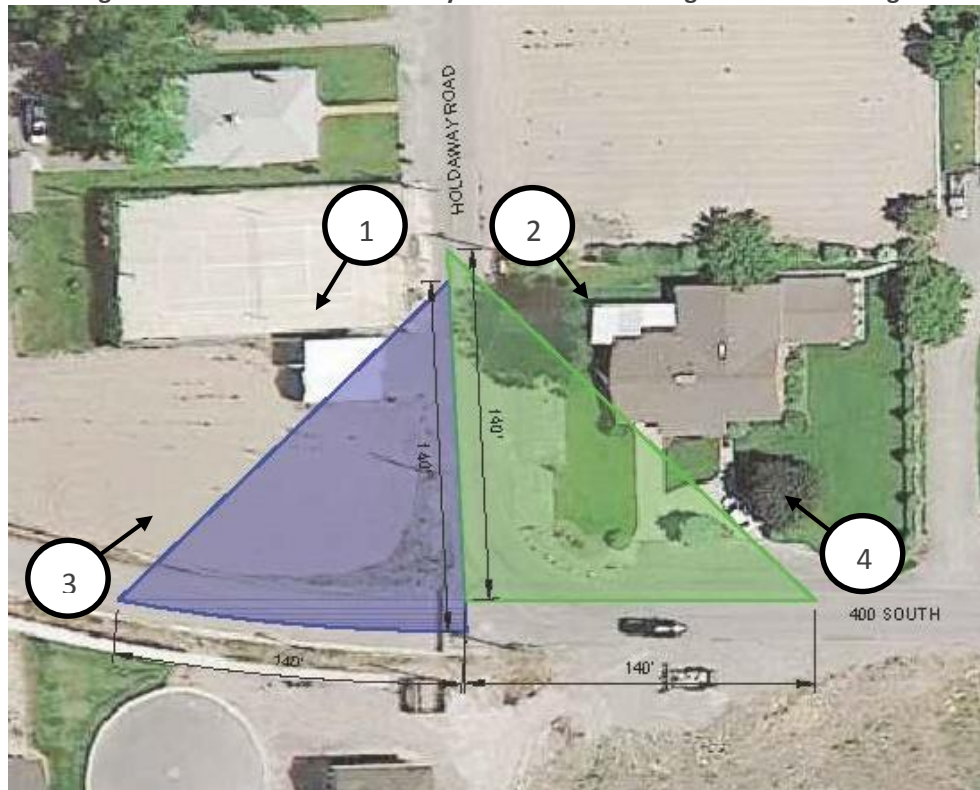
Table 4. Entering Traffic Volume

Date	Entering Traffic Volume (veh/day)		Criteria for STOP sign
	400 South (Major Street)	Holdaway Road (Minor Street)	
Wednesday 25-Jun-14	1283	184	NOT Satisfied
Total	1467		
Date	Lake View Drive (Major Street)	475 East (Minor Street)	Criteria for STOP sign
Tuesday 24-Jun-14	1213	394	NOT Satisfied
Total	1607		

AVAILABLE SIGHT DISTANCE

J-U-B conducted a site evaluation on June 27, 2014 to evaluate the existing conditions. We observed that stop signs exist on the Holdaway Road and 475 East approaches. According to the MUTCD, 400 South/Holdaway Road and Lake View Drive/475 East are intersections of two minor streets or local roads. A stop sign should be considered at minor and local street intersections when a restricted view exists that requires road users to stop in order to adequately observe conflicting traffic. As shown in **Figure 1** and **Figure 2**, the measured sight distance is insufficient for road users on the minor street to come to a complete stop in compliance with the normal right-of-way. According to MUTCD guidance, the existing stop signs are warranted and should remain in place on the minor street approaches at the study intersections.

Figure 1. 400 South and Holdaway Road Intersection Sight-Distance Triangle



= Sight Distance Triangle Point (see table below)

400 South and Holdaway Road Intersection Street View from Sight-Distance Triangle Point.

1.



Holdaway Road looking southwest

2.



Holdaway Road looking southeast

3.



400 South looking east toward the intersection

4.



400 South looking west toward the intersection

Figure 2. 475 South and Lake View Drive Intersection Sight-Distance Triangle



= Sight Distance Triangle Point (see table below)

475 South and Lake View Drive Intersection Street View from Sight-Distance Triangle Point.



475 South looking northwest



475 South looking southwest

475 South and Lake View Drive Intersection Street View from Sight-Distance Triangle Point.

3.



Lake View Drive looking north toward the intersection

4.



Lake View Drive looking south toward the intersection

FINDINGS AND CONCLUSIONS

The engineering evaluation concluded that the study locations did not satisfy the guidance criteria for traffic volume and crash frequency. However, there are insufficient sight distances from the minor approaches to allow road users to stop in compliance with the normal right-of-way to observe conflicting traffic on the major street at both intersections. Based on the restricted sight distances, this study recommends the existing stop signs for the minor approaches at both intersections remain in place.



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APPENDIX 1

TRAFFIC DATA

L2 Data Collection

Study #: JUB0053
Count: Volume / Direction
Tech: Judd / Harris
Type: Vehicle Volume

www.L2DataCollection.com
Idaho (208) 860-7554 Utah (801) 413-2993

Holdaway N of 3200 N VOL
Date Start: 24-Jun-14
Date End: 26-Jun-14
Holdaway Road north of 3200 N
Vineyard, Utah

Start Time	24-Jun-14 Tue	SB	NB	Total
12:00 AM		*	*	*
12:15		*	*	*
12:30		*	*	*
12:45		*	*	*
01:00		*	*	*
01:15		*	*	*
01:30		*	*	*
01:45		*	*	*
02:00		*	*	*
02:15		*	*	*
02:30		*	*	*
02:45		*	*	*
03:00		*	*	*
03:15		*	*	*
03:30		*	*	*
03:45		*	*	*
04:00		*	*	*
04:15		*	*	*
04:30		*	*	*
04:45		*	*	*
05:00		*	*	*
05:15		*	*	*
05:30		*	*	*
05:45		3	0	3
06:00		0	0	0
06:15		2	0	2
06:30		1	0	1
06:45		3	0	3
07:00		1	1	2
07:15		2	2	4
07:30		5	7	12
07:45		4	2	6
08:00		4	1	5
08:15		2	2	4
08:30		2	1	3
08:45		5	2	7
09:00		5	4	9
09:15		1	8	9
09:30		2	0	2
09:45		1	0	1
10:00		3	4	7
10:15		2	1	3
10:30		2	2	4
10:45		4	1	5
11:00		3	3	6
11:15		3	1	4
11:30		2	2	4
11:45		1	1	2
Total		63	45	108
Percent		58.3%	41.7%	
Peak	-	07:15	08:30	08:30
Vol.	-	15	15	28
P.H.F.		0.750	0.469	0.583

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 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Holdaway Road north of 3200 N
 Vineyard, Utah

Start Time	24-Jun-14 Tue	SB	NB	Total
12:00 PM		5	6	11
12:15		1	3	4
12:30		3	4	7
12:45		2	3	5
01:00		1	3	4
01:15		3	4	7
01:30		0	2	2
01:45		0	2	2
02:00		1	1	2
02:15		3	2	5
02:30		2	3	5
02:45		4	3	7
03:00		3	4	7
03:15		2	4	6
03:30		1	3	4
03:45		2	4	6
04:00		6	7	13
04:15		4	4	8
04:30		1	2	3
04:45		5	6	11
05:00		0	5	5
05:15		2	6	8
05:30		5	5	10
05:45		3	5	8
06:00		8	2	10
06:15		4	11	15
06:30		1	1	2
06:45		2	1	3
07:00		4	6	10
07:15		2	3	5
07:30		0	2	2
07:45		4	3	7
08:00		6	6	12
08:15		7	4	11
08:30		2	6	8
08:45		2	5	7
09:00		4	2	6
09:15		0	2	2
09:30		0	3	3
09:45		1	6	7
10:00		2	0	2
10:15		0	4	4
10:30		2	2	4
10:45		0	2	2
11:00		0	0	0
11:15		0	0	0
11:30		0	0	0
11:45		0	0	0
Total		110	162	272
Percent		40.4%	59.6%	
Peak	-	17:30	17:30	17:30
Vol.	-	20	23	43
P.H.F.		0.625	0.523	0.717

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 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Holdaway Road north of 3200 N
 Vineyard, Utah

Start Time	25-Jun-14 Wed	SB	NB	Total
12:00 AM		0	0	0
12:15		0	1	1
12:30		0	1	1
12:45		1	1	2
01:00		0	0	0
01:15		0	0	0
01:30		0	0	0
01:45		0	0	0
02:00		0	0	0
02:15		0	0	0
02:30		0	0	0
02:45		0	0	0
03:00		0	0	0
03:15		0	0	0
03:30		0	0	0
03:45		0	0	0
04:00		0	0	0
04:15		0	0	0
04:30		0	0	0
04:45		0	0	0
05:00		0	0	0
05:15		0	0	0
05:30		1	0	1
05:45		0	0	0
06:00		2	0	2
06:15		1	0	1
06:30		0	0	0
06:45		4	2	6
07:00		2	2	4
07:15		2	8	10
07:30		4	3	7
07:45		2	2	4
08:00		2	1	3
08:15		3	3	6
08:30		6	3	9
08:45		3	2	5
09:00		0	1	1
09:15		1	3	4
09:30		3	2	5
09:45		8	5	13
10:00		4	0	4
10:15		2	1	3
10:30		1	4	5
10:45		0	3	3
11:00		2	0	2
11:15		3	4	7
11:30		5	5	10
11:45		2	2	4
Total		64	59	123
Percent		52.0%	48.0%	
Peak	-	09:30	06:45	06:45
Vol.	-	17	15	27
P.H.F.		0.531	0.469	0.675

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 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Holdaway Road north of 3200 N
 Vineyard, Utah

Start Time	25-Jun-14 Wed	SB	NB	Total
12:00 PM		3	3	6
12:15		2	2	4
12:30		2	1	3
12:45		2	3	5
01:00		1	3	4
01:15		1	4	5
01:30		4	2	6
01:45		4	7	11
02:00		4	5	9
02:15		1	2	3
02:30		0	0	0
02:45		2	6	8
03:00		2	1	3
03:15		2	4	6
03:30		6	4	10
03:45		5	2	7
04:00		1	1	2
04:15		0	4	4
04:30		2	6	8
04:45		3	2	5
05:00		1	6	7
05:15		2	10	12
05:30		5	5	10
05:45		4	9	13
06:00		4	5	9
06:15		11	10	21
06:30		4	7	11
06:45		1	8	9
07:00		3	7	10
07:15		2	3	5
07:30		3	2	5
07:45		4	3	7
08:00		4	3	7
08:15		3	2	5
08:30		1	6	7
08:45		3	3	6
09:00		2	2	4
09:15		2	0	2
09:30		2	1	3
09:45		0	4	4
10:00		2	2	4
10:15		3	3	6
10:30		4	4	8
10:45		0	2	2
11:00		1	0	1
11:15		1	1	2
11:30		1	1	2
11:45		0	2	2
Total		120	173	293
Percent		41.0%	59.0%	
Peak	-	17:30	18:15	17:45
Vol.	-	24	32	54
P.H.F.		0.545	0.800	0.643

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Holdaway N of 3200 N VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Holdaway Road north of 3200 N
 Vineyard, Utah

Start Time	26-Jun-14 Thu	SB	NB	Total
12:00 AM		0	0	0
12:15		2	0	2
12:30		1	1	2
12:45		0	1	1
01:00		0	0	0
01:15		0	0	0
01:30		0	0	0
01:45		0	0	0
02:00		0	0	0
02:15		0	0	0
02:30		0	0	0
02:45		0	0	0
03:00		0	0	0
03:15		0	0	0
03:30		0	0	0
03:45		0	0	0
04:00		0	0	0
04:15		0	0	0
04:30		0	0	0
04:45		0	0	0
05:00		1	0	1
05:15		0	0	0
05:30		1	1	2
05:45		2	0	2
06:00		0	1	1
06:15		2	0	2
06:30		3	1	4
06:45		1	4	5
07:00		6	3	9
07:15		4	3	7
07:30		6	11	17
07:45		3	2	5
08:00		3	5	8
08:15		5	1	6
08:30		6	3	9
08:45		3	3	6
09:00		5	3	8
09:15		7	4	11
09:30		1	1	2
09:45		2	2	4
10:00		5	4	9
10:15		2	4	6
10:30		3	5	8
10:45		4	4	8
11:00		0	6	6
11:15		2	3	5
11:30		9	7	16
11:45		4	7	11
Total		93	90	183
Percent		50.8%	49.2%	
Peak	-	08:30	11:00	06:45
Vol.	-	21	23	38
P.H.F.		0.750	0.523	0.559

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 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Holdaway Road north of 3200 N
 Vineyard, Utah

Start Time	26-Jun-14 Thu	SB	NB							Total
12:00 PM		2	9							11
12:15		7	5							12
12:30		6	1							7
12:45		3	4							7
01:00		4	4							8
01:15		2	1							3
01:30		4	6							10
01:45		1	4							5
02:00		2	7							9
02:15		1	2							3
02:30		0	2							2
02:45		2	2							4
03:00		5	3							8
03:15		4	3							7
03:30		0	4							4
03:45		4	4							8
04:00		1	3							4
04:15		8	8							16
04:30		2	1							3
04:45		3	4							7
05:00		2	3							5
05:15		3	4							7
05:30		3	6							9
05:45		2	2							4
06:00		3	11							14
06:15		5	1							6
06:30		0	2							2
06:45		1	6							7
07:00		1	4							5
07:15		3	4							7
07:30		5	7							12
07:45		2	2							4
08:00		2	2							4
08:15		1	2							3
08:30		3	4							7
08:45		6	4							10
09:00		0	0							0
09:15		2	1							3
09:30		4	4							8
09:45		2	4							6
10:00		2	2							4
10:15		1	1							2
10:30		0	1							1
10:45		0	5							5
11:00		2	0							2
11:15		0	1							1
11:30		1	3							4
11:45		0	0							0
Total		117	163							280
Percent		41.8%	58.2%							
Peak	-	12:15	17:15	-	-	-	-	-	-	12:00
Vol.	-	20	23	-	-	-	-	-	-	37
P.H.F.		0.714	0.523							0.771
Grand Total		567	692							1259
Percent		45.0%	55.0%							

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3200 N E of Holdaway VOL
Date Start: 24-Jun-14
Date End: 26-Jun-14
3200 N. east of Holdaway Road
Vineyard, Utah

Start Time	24-Jun-14 Tue	WB	EB	Total
12:00 AM		*	*	*
12:15		*	*	*
12:30		*	*	*
12:45		*	*	*
01:00		*	*	*
01:15		*	*	*
01:30		*	*	*
01:45		*	*	*
02:00		*	*	*
02:15		*	*	*
02:30		*	*	*
02:45		*	*	*
03:00		*	*	*
03:15		*	*	*
03:30		*	*	*
03:45		*	*	*
04:00		*	*	*
04:15		*	*	*
04:30		*	*	*
04:45		*	*	*
05:00		*	*	*
05:15		*	*	*
05:30		*	*	*
05:45		*	*	*
06:00		3	4	7
06:15		0	4	4
06:30		0	3	3
06:45		2	6	8
07:00		5	6	11
07:15		1	9	10
07:30		12	10	22
07:45		3	8	11
08:00		3	10	13
08:15		2	8	10
08:30		5	7	12
08:45		6	15	21
09:00		10	6	16
09:15		7	6	13
09:30		3	11	14
09:45		5	5	10
10:00		4	9	13
10:15		6	6	12
10:30		8	6	14
10:45		5	9	14
11:00		10	10	20
11:15		7	6	13
11:30		8	12	20
11:45		7	7	14
Total		122	183	305
Percent		40.0%	60.0%	
Peak	-	11:00	08:00	10:45
Vol.	-	32	40	67
P.H.F.		0.800	0.667	0.838

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 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. east of Holdaway Road
 Vineyard, Utah

Start Time	24-Jun-14 Tue	WB	EB	Total
12:00 PM		0	0	0
12:15		0	0	0
12:30		0	0	0
12:45		0	0	0
01:00		0	0	0
01:15		0	0	0
01:30		0	0	0
01:45		0	0	0
02:00		0	0	0
02:15		0	0	0
02:30		0	0	0
02:45		0	0	0
03:00		0	0	0
03:15		0	0	0
03:30		0	0	0
03:45		0	0	0
04:00		0	0	0
04:15		0	0	0
04:30		0	0	0
04:45		0	0	0
05:00		0	0	0
05:15		0	0	0
05:30		0	0	0
05:45		0	0	0
06:00		0	0	0
06:15		0	0	0
06:30		0	0	0
06:45		0	0	0
07:00		0	0	0
07:15		0	0	0
07:30		0	0	0
07:45		0	0	0
08:00		0	0	0
08:15		0	0	0
08:30		0	0	0
08:45		0	0	0
09:00		0	0	0
09:15		13	5	18
09:30		12	6	18
09:45		12	4	16
10:00		4	8	12
10:15		9	3	12
10:30		6	4	10
10:45		7	1	8
11:00		4	1	5
11:15		3	2	5
11:30		3	2	5
11:45		3	1	4
Total		76	37	113
Percent		67.3%	32.7%	
Peak	-	21:15	21:15	21:15
Vol.	-	41	23	64
P.H.F.		0.788	0.719	0.889

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

3200 N E of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. east of Holdaway Road
 Vineyard, Utah

Start Time	25-Jun-14 Wed	WB	EB							Total
12:00 AM		0	1							1
12:15		1	1							2
12:30		1	1							2
12:45		2	1							3
01:00		0	0							0
01:15		0	0							0
01:30		0	0							0
01:45		0	0							0
02:00		0	0							0
02:15		1	0							1
02:30		1	0							1
02:45		1	0							1
03:00		0	0							0
03:15		2	0							2
03:30		1	0							1
03:45		0	0							0
04:00		0	3							3
04:15		0	1							1
04:30		0	0							0
04:45		0	4							4
05:00		0	0							0
05:15		0	3							3
05:30		2	3							5
05:45		1	2							3
06:00		3	4							7
06:15		1	3							4
06:30		2	4							6
06:45		7	6							13
07:00		6	4							10
07:15		7	9							16
07:30		8	10							18
07:45		6	10							16
08:00		7	13							20
08:15		8	11							19
08:30		10	12							22
08:45		5	16							21
09:00		9	6							15
09:15		9	9							18
09:30		8	14							22
09:45		7	16							23
10:00		11	7							18
10:15		8	4							12
10:30		14	10							24
10:45		8	9							17
11:00		11	9							20
11:15		9	7							16
11:30		9	10							19
11:45		11	8							19
Total		197	231							428
Percent		46.0%	54.0%							
Peak	-	10:30	08:00	-	-	-	-	-	-	08:00
Vol.	-	42	52	-	-	-	-	-	-	82
P.H.F.		0.750	0.813							0.932

L2 Data Collection

Study #: JUB0053
Count: Volume / Direction
Tech: Judd / Harris
Type: Vehicle Volume

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Idaho (208) 860-7554 Utah (801) 413-2993

3200 N E of Holdaway VOL
Date Start: 24-Jun-14
Date End: 26-Jun-14
3200 N. east of Holdaway Road
Vineyard, Utah

Start Time	25-Jun-14 Wed	WB	EB	Total
12:00 PM		16	7	23
12:15		12	10	22
12:30		17	17	34
12:45		9	11	20
01:00		12	11	23
01:15		11	9	20
01:30		14	11	25
01:45		19	5	24
02:00		13	9	22
02:15		9	8	17
02:30		11	5	16
02:45		13	7	20
03:00		8	9	17
03:15		14	6	20
03:30		10	8	18
03:45		9	11	20
04:00		9	7	16
04:15		12	8	20
04:30		17	5	22
04:45		16	6	22
05:00		24	8	32
05:15		18	17	35
05:30		18	19	37
05:45		26	21	47
06:00		16	8	24
06:15		24	15	39
06:30		12	14	26
06:45		11	13	24
07:00		17	9	26
07:15		16	12	28
07:30		12	5	17
07:45		9	10	19
08:00		8	12	20
08:15		20	7	27
08:30		10	2	12
08:45		14	13	27
09:00		6	4	10
09:15		14	5	19
09:30		8	8	16
09:45		6	5	11
10:00		7	5	12
10:15		8	4	12
10:30		5	6	11
10:45		3	4	7
11:00		2	0	2
11:15		4	3	7
11:30		5	1	6
11:45		3	1	4
Total		577	401	978
Percent		59.0%	41.0%	
Peak	-	17:00	17:00	17:00
Vol.	-	86	65	151
P.H.F.		0.827	0.774	0.803

L2 Data Collection

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 Tech: Judd / Harris
 Type: Vehicle Volume

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 Idaho (208) 860-7554 Utah (801) 413-2993

3200 N E of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. east of Holdaway Road
 Vineyard, Utah

Start Time	26-Jun-14 Thu	WB	EB	Total
12:00 AM		0	1	1
12:15		0	2	2
12:30		3	0	3
12:45		1	0	1
01:00		0	1	1
01:15		0	0	0
01:30		1	0	1
01:45		0	1	1
02:00		0	0	0
02:15		0	0	0
02:30		0	1	1
02:45		0	1	1
03:00		0	0	0
03:15		0	1	1
03:30		1	0	1
03:45		0	1	1
04:00		0	0	0
04:15		0	0	0
04:30		0	0	0
04:45		0	1	1
05:00		0	1	1
05:15		1	2	3
05:30		2	3	5
05:45		1	6	7
06:00		3	1	4
06:15		1	8	9
06:30		2	4	6
06:45		5	4	9
07:00		5	4	9
07:15		6	11	17
07:30		16	12	28
07:45		5	9	14
08:00		8	7	15
08:15		2	12	14
08:30		8	9	17
08:45		6	16	22
09:00		12	14	26
09:15		7	12	19
09:30		6	10	16
09:45		6	11	17
10:00		9	11	20
10:15		6	3	9
10:30		10	7	17
10:45		8	13	21
11:00		14	8	22
11:15		7	15	22
11:30		14	10	24
11:45		14	8	22
Total		190	241	431
Percent		44.1%	55.9%	
Peak	-	11:00	08:45	11:00
Vol.	-	49	52	90
P.H.F.		0.875	0.813	0.938

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

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 Idaho (208) 860-7554 Utah (801) 413-2993

3200 N E of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. east of Holdaway Road
 Vineyard, Utah

Start Time	26-Jun-14 Thu	WB	EB	Total
12:00 PM		10	23	33
12:15		7	9	16
12:30		14	11	25
12:45		11	8	19
01:00		14	11	25
01:15		8	10	18
01:30		19	9	28
01:45		12	10	22
02:00		14	5	19
02:15		11	2	13
02:30		8	7	15
02:45		13	8	21
03:00		12	15	27
03:15		9	16	25
03:30		8	7	15
03:45		11	6	17
04:00		9	8	17
04:15		19	14	33
04:30		16	8	24
04:45		19	13	32
05:00		19	7	26
05:15		16	9	25
05:30		16	8	24
05:45		13	5	18
06:00		16	16	32
06:15		9	8	17
06:30		13	10	23
06:45		17	7	24
07:00		13	10	23
07:15		9	9	18
07:30		16	11	27
07:45		11	9	20
08:00		6	6	12
08:15		10	9	19
08:30		18	6	24
08:45		14	9	23
09:00		9	5	14
09:15		8	4	12
09:30		7	7	14
09:45		12	5	17
10:00		5	5	10
10:15		8	2	10
10:30		4	4	8
10:45		7	1	8
11:00		3	3	6
11:15		1	2	3
11:30		5	1	6
11:45		2	0	2
Total		531	378	909
Percent		58.4%	41.6%	
Peak	-	16:15	12:00	16:15
Vol.	-	73	51	115
P.H.F.		0.961	0.554	0.871
Grand Total		1693	1471	3164
Percent		53.5%	46.5%	

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction / Speed
 Tech: Judd / Harris
 Type: Vehicle Volumes

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

3200 N W of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. west of Holdaway Rd.
 Vineyard, Utah

Start Time	24-Jun-14 Tue	WB	EB	Total
12:00 AM		*	*	*
12:15		*	*	*
12:30		*	*	*
12:45		*	*	*
01:00		*	*	*
01:15		*	*	*
01:30		*	*	*
01:45		*	*	*
02:00		*	*	*
02:15		*	*	*
02:30		*	*	*
02:45		*	*	*
03:00		*	*	*
03:15		*	*	*
03:30		*	*	*
03:45		*	*	*
04:00		*	*	*
04:15		*	*	*
04:30		*	*	*
04:45		*	*	*
05:00		*	*	*
05:15		*	*	*
05:30		*	*	*
05:45		*	*	*
06:00		*	*	*
06:15		*	*	*
06:30		0	3	3
06:45		1	2	3
07:00		5	7	12
07:15		0	6	6
07:30		3	5	8
07:45		1	7	8
08:00		0	2	2
08:15		1	5	6
08:30		4	5	9
08:45		4	12	16
09:00		10	3	13
09:15		4	5	9
09:30		4	9	13
09:45		3	4	7
10:00		1	6	7
10:15		5	4	9
10:30		6	3	9
10:45		5	7	12
11:00		7	5	12
11:15		7	1	8
11:30		4	9	13
11:45		0	0	0
Total		75	110	185
Percent		40.5%	59.5%	
Peak	-	10:30	08:45	08:45
Vol.	-	25	29	51
P.H.F.		0.893	0.604	0.797

L2 Data Collection

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 Type: Vehicle Volumes

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3200 N W of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. west of Holdaway Rd.
 Vineyard, Utah

Start Time	24-Jun-14 Tue	WB	EB	Total
12:00 PM		0	0	0
12:15		0	0	0
12:30		0	0	0
12:45		0	0	0
01:00		0	0	0
01:15		0	0	0
01:30		0	0	0
01:45		0	0	0
02:00		0	0	0
02:15		0	0	0
02:30		0	0	0
02:45		0	0	0
03:00		0	0	0
03:15		0	0	0
03:30		0	0	0
03:45		0	0	0
04:00		0	0	0
04:15		0	0	0
04:30		0	0	0
04:45		0	0	0
05:00		0	0	0
05:15		0	0	0
05:30		0	0	0
05:45		0	0	0
06:00		0	0	0
06:15		0	0	0
06:30		0	0	0
06:45		0	0	0
07:00		0	0	0
07:15		0	0	0
07:30		0	0	0
07:45		0	0	0
08:00		0	0	0
08:15		0	0	0
08:30		0	0	0
08:45		0	0	0
09:00		11	8	19
09:15		11	6	17
09:30		9	4	13
09:45		7	4	11
10:00		4	7	11
10:15		4	2	6
10:30		4	2	6
10:45		5	3	8
11:00		4	1	5
11:15		4	2	6
11:30		2	1	3
11:45		3	1	4
Total		68	41	109
Percent		62.4%	37.6%	
Peak	-	21:00	21:00	21:00
Vol.	-	38	22	60
P.H.F.		0.864	0.688	0.789

L2 Data Collection

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3200 N W of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. west of Holdaway Rd.
 Vineyard, Utah

Start Time	25-Jun-14 Wed	WB	EB							Total
12:00 AM		0	1							1
12:15		0	1							1
12:30		0	2							2
12:45		2	1							3
01:00		0	0							0
01:15		0	0							0
01:30		0	0							0
01:45		0	0							0
02:00		0	0							0
02:15		1	0							1
02:30		1	0							1
02:45		1	0							1
03:00		0	0							0
03:15		2	0							2
03:30		1	0							1
03:45		0	0							0
04:00		0	3							3
04:15		0	1							1
04:30		0	0							0
04:45		0	4							4
05:00		0	0							0
05:15		0	3							3
05:30		2	2							4
05:45		1	2							3
06:00		3	3							6
06:15		1	1							2
06:30		2	3							5
06:45		8	3							11
07:00		5	7							12
07:15		1	9							10
07:30		7	6							13
07:45		4	8							12
08:00		4	11							15
08:15		7	7							14
08:30		5	6							11
08:45		4	12							16
09:00		10	6							16
09:15		6	8							14
09:30		5	10							15
09:45		4	12							16
10:00		9	8							17
10:15		9	3							12
10:30		9	10							19
10:45		6	8							14
11:00		10	5							15
11:15		6	6							12
11:30		4	4							8
11:45		7	5							12
Total		147	181							328
Percent		44.8%	55.2%							
Peak	-	10:15	09:15	-	-	-	-	-	-	09:45
Vol.	-	34	38	-	-	-	-	-	-	64
P.H.F.		0.850	0.792							0.842

L2 Data Collection

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 Type: Vehicle Volumes

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3200 N W of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. west of Holdaway Rd.
 Vineyard, Utah

Start Time	25-Jun-14 Wed	WB	EB							Total
12:00 PM		11	11							22
12:15		10	5							15
12:30		15	14							29
12:45		7	10							17
01:00		9	8							17
01:15		9	8							17
01:30		12	8							20
01:45		10	2							12
02:00		10	7							17
02:15		8	5							13
02:30		9	5							14
02:45		7	5							12
03:00		8	8							16
03:15		9	5							14
03:30		9	6							15
03:45		6	5							11
04:00		8	5							13
04:15		9	8							17
04:30		13	4							17
04:45		15	3							18
05:00		19	9							28
05:15		15	17							32
05:30		12	16							28
05:45		20	19							39
06:00		13	7							20
06:15		20	11							31
06:30		10	9							19
06:45		4	15							19
07:00		17	10							27
07:15		12	9							21
07:30		10	3							13
07:45		7	6							13
08:00		7	6							13
08:15		16	7							23
08:30		5	5							10
08:45		11	11							22
09:00		7	4							11
09:15		12	3							15
09:30		9	6							15
09:45		3	4							7
10:00		7	6							13
10:15		7	2							9
10:30		2	1							3
10:45		1	4							5
11:00		1	0							1
11:15		5	4							9
11:30		4	1							5
11:45		1	1							2
Total		451	328							779
Percent		57.9%	42.1%							
Peak	-	17:00	17:00	-	-	-	-	-	-	17:00
Vol.	-	66	61	-	-	-	-	-	-	127
P.H.F.		0.825	0.803							0.814

L2 Data Collection

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3200 N W of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. west of Holdaway Rd.
 Vineyard, Utah

Start Time	26-Jun-14 Thu	WB	EB							Total
12:00 AM		0	1							1
12:15		0	0							0
12:30		3	0							3
12:45		0	0							0
01:00		0	1							1
01:15		0	0							0
01:30		1	0							1
01:45		0	1							1
02:00		0	0							0
02:15		0	0							0
02:30		0	1							1
02:45		0	1							1
03:00		0	0							0
03:15		0	1							1
03:30		1	0							1
03:45		0	1							1
04:00		0	0							0
04:15		0	0							0
04:30		0	0							0
04:45		0	1							1
05:00		0	0							0
05:15		1	2							3
05:30		1	2							3
05:45		1	4							5
06:00		2	1							3
06:15		1	5							6
06:30		0	3							3
06:45		1	2							3
07:00		3	3							6
07:15		3	6							9
07:30		11	12							23
07:45		3	5							8
08:00		2	5							7
08:15		2	7							9
08:30		6	4							10
08:45		5	10							15
09:00		7	10							17
09:15		5	9							14
09:30		4	8							12
09:45		6	10							16
10:00		8	5							13
10:15		3	4							7
10:30		6	6							12
10:45		8	9							17
11:00		6	6							12
11:15		5	9							14
11:30		11	9							20
11:45		15	9							24
Total		131	173							304
Percent		43.1%	56.9%							
Peak	-	11:00	08:45	-	-	-	-	-	-	11:00
Vol.	-	37	37	-	-	-	-	-	-	70
P.H.F.		0.617	0.925							0.729

L2 Data Collection

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3200 N W of Holdaway VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 3200 N. west of Holdaway Rd.
 Vineyard, Utah

Start Time	26-Jun-14 Thu	WB	EB							Total
12:00 PM		1	17							18
12:15		5	5							10
12:30		12	9							21
12:45		10	5							15
01:00		13	11							24
01:15		10	7							17
01:30		11	6							17
01:45		12	11							23
02:00		10	4							14
02:15		6	1							7
02:30		6	5							11
02:45		13	7							20
03:00		9	10							19
03:15		6	11							17
03:30		5	9							14
03:45		9	3							12
04:00		6	8							14
04:15		9	7							16
04:30		15	7							22
04:45		14	9							23
05:00		13	6							19
05:15		10	6							16
05:30		11	4							15
05:45		9	4							13
06:00		6	10							16
06:15		9	4							13
06:30		8	6							14
06:45		11	8							19
07:00		11	10							21
07:15		8	8							16
07:30		11	6							17
07:45		7	7							14
08:00		6	4							10
08:15		8	8							16
08:30		13	5							18
08:45		11	5							16
09:00		10	4							14
09:15		8	3							11
09:30		4	4							8
09:45		8	4							12
10:00		3	3							6
10:15		8	2							10
10:30		3	4							7
10:45		2	2							4
11:00		4	1							5
11:15		0	2							2
11:30		3	1							4
11:45		1	0							1
Total		388	283							671
Percent		57.8%	42.2%							
Peak	-	16:30	14:45	-	-	-	-	-	-	13:00
Vol.	-	52	37	-	-	-	-	-	-	81
P.H.F.		0.867	0.841							0.844
Grand Total		1260	1116							2376
Percent		53.0%	47.0%							

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

475S east of Lakeview VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 475 S. east of Lake View Dr.
 Vineyard, Utah

Start Time	24-Jun-14 Tue	WB	EB	Total
12:00 AM		*	*	*
12:15		*	*	*
12:30		*	*	*
12:45		*	*	*
01:00		*	*	*
01:15		*	*	*
01:30		*	*	*
01:45		*	*	*
02:00		*	*	*
02:15		*	*	*
02:30		*	*	*
02:45		*	*	*
03:00		*	*	*
03:15		*	*	*
03:30		*	*	*
03:45		*	*	*
04:00		*	*	*
04:15		*	*	*
04:30		*	*	*
04:45		*	*	*
05:00		*	*	*
05:15		*	*	*
05:30		*	*	*
05:45		*	*	*
06:00		*	*	*
06:15		*	*	*
06:30		*	*	*
06:45		*	*	*
07:00		*	*	*
07:15		3	7	10
07:30		3	16	19
07:45		2	3	5
08:00		1	11	12
08:15		1	7	8
08:30		3	7	10
08:45		11	8	19
09:00		5	9	14
09:15		6	8	14
09:30		4	5	9
09:45		8	8	16
10:00		3	6	9
10:15		3	11	14
10:30		6	5	11
10:45		7	9	16
11:00		4	6	10
11:15		8	8	16
11:30		7	8	15
11:45		11	5	16
Total		96	147	243
Percent		39.5%	60.5%	
Peak	-	11:00	07:15	08:30
Vol.	-	30	37	57
P.H.F.		0.682	0.578	0.750

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

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 Idaho (208) 860-7554 Utah (801) 413-2993

475S east of Lakeview VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 475 S. east of Lake View Dr.
 Vineyard, Utah

Start Time	24-Jun-14 Tue	WB	EB	Total
12:00 PM		11	11	22
12:15		10	7	17
12:30		10	10	20
12:45		6	6	12
01:00		11	5	16
01:15		9	9	18
01:30		7	10	17
01:45		6	11	17
02:00		9	9	18
02:15		5	8	13
02:30		9	6	15
02:45		3	10	13
03:00		6	11	17
03:15		11	9	20
03:30		6	5	11
03:45		5	5	10
04:00		4	3	7
04:15		10	11	21
04:30		6	8	14
04:45		6	3	9
05:00		8	3	11
05:15		6	2	8
05:30		11	1	12
05:45		7	4	11
06:00		8	2	10
06:15		11	1	12
06:30		5	0	5
06:45		4	1	5
07:00		6	1	7
07:15		6	0	6
07:30		8	0	8
07:45		6	2	8
08:00		10	0	10
08:15		4	2	6
08:30		5	1	6
08:45		8	0	8
09:00		3	1	4
09:15		8	1	9
09:30		6	0	6
09:45		4	1	5
10:00		5	1	6
10:15		0	0	0
10:30		3	0	3
10:45		2	0	2
11:00		1	0	1
11:15		3	0	3
11:30		0	1	1
11:45		0	0	0
Total		298	182	480
Percent		62.1%	37.9%	
Peak	-	12:00	13:15	12:00
Vol.	-	37	39	71
P.H.F.		0.841	0.886	0.807

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

475S east of Lakeview VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 475 S. east of Lake View Dr.
 Vineyard, Utah

Start Time	25-Jun-14 Wed	WB	EB	Total
12:00 AM		1	1	2
12:15		0	0	0
12:30		1	0	1
12:45		0	0	0
01:00		0	1	1
01:15		0	2	2
01:30		0	3	3
01:45		1	2	3
02:00		0	0	0
02:15		0	0	0
02:30		0	0	0
02:45		0	0	0
03:00		0	0	0
03:15		0	0	0
03:30		0	0	0
03:45		0	0	0
04:00		0	0	0
04:15		0	0	0
04:30		0	2	2
04:45		1	0	1
05:00		0	0	0
05:15		0	1	1
05:30		0	1	1
05:45		0	4	4
06:00		0	0	0
06:15		1	0	1
06:30		1	6	7
06:45		8	5	13
07:00		8	5	13
07:15		2	3	5
07:30		4	11	15
07:45		5	14	19
08:00		4	13	17
08:15		4	14	18
08:30		3	9	12
08:45		4	15	19
09:00		9	12	21
09:15		9	13	22
09:30		5	19	24
09:45		7	8	15
10:00		5	6	11
10:15		2	10	12
10:30		8	9	17
10:45		4	5	9
11:00		10	16	26
11:15		3	12	15
11:30		9	8	17
11:45		8	10	18
Total		127	240	367
Percent		34.6%	65.4%	
Peak	-	09:00	08:45	08:45
Vol.	-	30	59	86
P.H.F.		0.833	0.776	0.896

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

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 Idaho (208) 860-7554 Utah (801) 413-2993

475S east of Lakeview VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 475 S. east of Lake View Dr.
 Vineyard, Utah

Start Time	25-Jun-14 Wed	WB	EB	Total
12:00 PM		10	17	27
12:15		9	8	17
12:30		12	11	23
12:45		8	13	21
01:00		6	13	19
01:15		6	15	21
01:30		5	10	15
01:45		1	9	10
02:00		6	6	12
02:15		9	10	19
02:30		5	7	12
02:45		8	7	15
03:00		4	10	14
03:15		8	10	18
03:30		3	12	15
03:45		10	11	21
04:00		8	6	14
04:15		8	9	17
04:30		7	6	13
04:45		13	11	24
05:00		16	25	41
05:15		13	7	20
05:30		11	14	25
05:45		13	6	19
06:00		7	9	16
06:15		7	15	22
06:30		7	11	18
06:45		13	16	29
07:00		15	18	33
07:15		11	7	18
07:30		10	6	16
07:45		15	18	33
08:00		5	16	21
08:15		15	5	20
08:30		12	8	20
08:45		13	5	18
09:00		11	5	16
09:15		14	10	24
09:30		5	1	6
09:45		6	9	15
10:00		8	9	17
10:15		8	2	10
10:30		4	4	8
10:45		2	0	2
11:00		0	0	0
11:15		5	1	6
11:30		2	0	2
11:45		1	1	2
Total		395	429	824
Percent		47.9%	52.1%	
Peak	-	16:45	18:15	16:45
Vol.	-	53	60	110
P.H.F.		0.828	0.600	0.671

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

475S east of Lakeview VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 475 S. east of Lake View Dr.
 Vineyard, Utah

Start Time	26-Jun-14 Thu	WB	EB	Total
12:00 AM		0	0	0
12:15		0	0	0
12:30		0	0	0
12:45		1	5	6
01:00		1	0	1
01:15		0	0	0
01:30		0	0	0
01:45		0	0	0
02:00		0	0	0
02:15		0	0	0
02:30		0	0	0
02:45		1	0	1
03:00		0	0	0
03:15		0	2	2
03:30		0	0	0
03:45		0	0	0
04:00		0	0	0
04:15		0	0	0
04:30		0	1	1
04:45		0	0	0
05:00		0	0	0
05:15		0	0	0
05:30		1	1	2
05:45		0	2	2
06:00		0	3	3
06:15		1	2	3
06:30		2	1	3
06:45		2	5	7
07:00		7	9	16
07:15		3	1	4
07:30		3	11	14
07:45		7	5	12
08:00		6	12	18
08:15		3	6	9
08:30		9	15	24
08:45		9	9	18
09:00		5	16	21
09:15		1	8	9
09:30		5	10	15
09:45		13	6	19
10:00		4	8	12
10:15		13	9	22
10:30		11	3	14
10:45		10	13	23
11:00		3	7	10
11:15		3	4	7
11:30		0	0	0
11:45		7	9	16
Total		131	183	314
Percent		41.7%	58.3%	
Peak	-	09:45	08:30	08:15
Vol.	-	41	48	72
P.H.F.		0.788	0.750	0.750

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

475S east of Lakeview VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 475 S. east of Lake View Dr.
 Vineyard, Utah

Start Time	26-Jun-14 Thu	WB	EB							Total
12:00 PM		16	6							22
12:15		3	3							6
12:30		11	9							20
12:45		7	8							15
01:00		7	6							13
01:15		8	7							15
01:30		9	8							17
01:45		8	3							11
02:00		5	9							14
02:15		8	4							12
02:30		6	5							11
02:45		11	4							15
03:00		5	5							10
03:15		9	10							19
03:30		6	3							9
03:45		8	7							15
04:00		8	9							17
04:15		5	7							12
04:30		11	6							17
04:45		7	8							15
05:00		10	14							24
05:15		6	12							18
05:30		5	7							12
05:45		9	13							22
06:00		10	8							18
06:15		11	7							18
06:30		9	11							20
06:45		8	6							14
07:00		6	9							15
07:15		10	5							15
07:30		11	9							20
07:45		9	2							11
08:00		5	9							14
08:15		5	7							12
08:30		3	3							6
08:45		11	5							16
09:00		8	8							16
09:15		3	6							9
09:30		3	5							8
09:45		2	7							9
10:00		1	2							3
10:15		4	3							7
10:30		2	3							5
10:45		1	3							4
11:00		0	1							1
11:15		1	2							3
11:30		1	0							1
11:45		0	0							0
Total		312	294							606
Percent		51.5%	48.5%							
Peak	-	17:45	17:00	-	-	-	-	-	-	17:45
Vol.	-	39	46	-	-	-	-	-	-	78
P.H.F.		0.886	0.821							0.886
Grand Total		1359	1475							2834
Percent		48.0%	52.0%							

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volumes

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview N of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lakeview Dr. north of 475 S.
 Vineyard, Utah

Start Time	24-Jun-14 Tue	SB	NB	Total
12:00 AM		*	*	*
12:15		*	*	*
12:30		*	*	*
12:45		*	*	*
01:00		*	*	*
01:15		*	*	*
01:30		*	*	*
01:45		*	*	*
02:00		*	*	*
02:15		*	*	*
02:30		*	*	*
02:45		*	*	*
03:00		*	*	*
03:15		*	*	*
03:30		*	*	*
03:45		*	*	*
04:00		*	*	*
04:15		*	*	*
04:30		*	*	*
04:45		*	*	*
05:00		*	*	*
05:15		*	*	*
05:30		*	*	*
05:45		*	*	*
06:00		*	*	*
06:15		*	*	*
06:30		*	*	*
06:45		*	*	*
07:00		*	*	*
07:15		*	*	*
07:30		2	6	8
07:45		1	6	7
08:00		0	2	2
08:15		1	3	4
08:30		2	5	7
08:45		3	10	13
09:00		9	3	12
09:15		2	4	6
09:30		5	5	10
09:45		3	4	7
10:00		2	6	8
10:15		5	4	9
10:30		6	3	9
10:45		3	5	8
11:00		4	4	8
11:15		6	1	7
11:30		2	8	10
11:45		6	4	10
Total		62	83	145
Percent		42.8%	57.2%	
Peak	-	08:45	08:30	08:45
Vol.	-	19	22	41
P.H.F.		0.528	0.550	0.788

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volumes

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview N of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lakeview Dr. north of 475 S.
 Vineyard, Utah

Start Time	24-Jun-14 Tue	SB	NB	Total
12:00 PM		13	14	27
12:15		5	8	13
12:30		7	7	14
12:45		5	4	9
01:00		8	7	15
01:15		8	5	13
01:30		6	5	11
01:45		6	5	11
02:00		12	7	19
02:15		15	3	18
02:30		12	6	18
02:45		7	7	14
03:00		10	7	17
03:15		9	5	14
03:30		6	4	10
03:45		8	9	17
04:00		6	4	10
04:15		9	8	17
04:30		3	6	9
04:45		10	8	18
05:00		14	1	15
05:15		22	8	30
05:30		12	8	20
05:45		8	8	16
06:00		13	5	18
06:15		10	6	16
06:30		6	3	9
06:45		13	9	22
07:00		8	3	11
07:15		7	5	12
07:30		8	5	13
07:45		13	8	21
08:00		11	7	18
08:15		8	2	10
08:30		2	11	13
08:45		8	9	17
09:00		8	8	16
09:15		10	5	15
09:30		10	5	15
09:45		4	4	8
10:00		4	6	10
10:15		1	2	3
10:30		6	1	7
10:45		4	1	5
11:00		3	1	4
11:15		2	1	3
11:30		2	1	3
11:45		2	0	2
Total		384	262	646
Percent		59.4%	40.6%	
Peak	-	16:45	12:00	17:15
Vol.	-	58	33	84
P.H.F.		0.659	0.589	0.700

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volumes

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview N of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lakeview Dr. north of 475 S.
 Vineyard, Utah

Start Time	25-Jun-14 Wed	SB	NB							Total
12:00 AM		0	1							1
12:15		0	0							0
12:30		0	0							0
12:45		1	0							1
01:00		0	0							0
01:15		0	0							0
01:30		0	0							0
01:45		0	0							0
02:00		0	0							0
02:15		1	0							1
02:30		1	0							1
02:45		1	0							1
03:00		0	0							0
03:15		2	0							2
03:30		1	0							1
03:45		0	0							0
04:00		0	3							3
04:15		0	1							1
04:30		0	0							0
04:45		0	4							4
05:00		0	0							0
05:15		0	3							3
05:30		2	2							4
05:45		1	2							3
06:00		2	3							5
06:15		0	0							0
06:30		4	4							8
06:45		4	3							7
07:00		5	4							9
07:15		3	9							12
07:30		7	6							13
07:45		3	7							10
08:00		4	7							11
08:15		4	6							10
08:30		6	3							9
08:45		5	14							19
09:00		7	8							15
09:15		11	9							20
09:30		6	13							19
09:45		5	10							15
10:00		7	5							12
10:15		6	2							8
10:30		9	13							22
10:45		7	8							15
11:00		7	5							12
11:15		4	5							9
11:30		4	5							9
11:45		7	6							13
Total		137	171							308
Percent		44.5%	55.5%							
Peak	-	08:30	08:45	-	-	-	-	-	-	08:45
Vol.	-	29	44	-	-	-	-	-	-	73
P.H.F.		0.659	0.786							0.913

L2 Data Collection

Study #: JUB0053
Count: Volume / Direction
Tech: Judd / Harris
Type: Vehicle Volumes

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Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview N of 475S VOL
Date Start: 24-Jun-14
Date End: 26-Jun-14
Lakeview Dr. north of 475 S.
Vineyard, Utah

Start Time	25-Jun-14 Wed	SB	NB	Total
12:00 PM		12	9	21
12:15		9	6	15
12:30		16	11	27
12:45		9	7	16
01:00		8	3	11
01:15		10	9	19
01:30		7	4	11
01:45		7	2	9
02:00		11	4	15
02:15		8	6	14
02:30		9	5	14
02:45		3	2	5
03:00		7	7	14
03:15		11	5	16
03:30		8	4	12
03:45		5	4	9
04:00		0	0	0
04:15		0	0	0
04:30		0	0	0
04:45		0	0	0
05:00		0	0	0
05:15		0	0	0
05:30		0	0	0
05:45		0	0	0
06:00		0	0	0
06:15		0	0	0
06:30		0	0	0
06:45		0	0	0
07:00		0	0	0
07:15		0	0	0
07:30		0	0	0
07:45		0	0	0
08:00		0	0	0
08:15		0	0	0
08:30		0	0	0
08:45		0	0	0
09:00		0	0	0
09:15		0	0	0
09:30		0	0	0
09:45		0	0	0
10:00		0	0	0
10:15		0	0	0
10:30		0	0	0
10:45		0	0	0
11:00		0	0	0
11:15		0	0	0
11:30		0	0	0
11:45		0	0	0
Total		140	88	228
Percent		61.4%	38.6%	
Peak	-	12:00	12:00	12:00
Vol.	-	46	33	79
P.H.F.		0.719	0.750	0.731

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volumes

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview N of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lakeview Dr. north of 475 S.
 Vineyard, Utah

Start Time	26-Jun-14 Thu	SB	NB							Total
12:00 AM		0	0							0
12:15		0	0							0
12:30		0	0							0
12:45		0	0							0
01:00		0	0							0
01:15		0	0							0
01:30		0	0							0
01:45		0	0							0
02:00		0	0							0
02:15		0	0							0
02:30		0	0							0
02:45		0	0							0
03:00		0	0							0
03:15		0	0							0
03:30		0	0							0
03:45		0	0							0
04:00		0	0							0
04:15		0	0							0
04:30		0	0							0
04:45		0	0							0
05:00		0	0							0
05:15		0	0							0
05:30		0	0							0
05:45		0	0							0
06:00		0	0							0
06:15		0	0							0
06:30		0	0							0
06:45		0	0							0
07:00		0	0							0
07:15		0	0							0
07:30		0	0							0
07:45		0	0							0
08:00		0	0							0
08:15		0	0							0
08:30		0	0							0
08:45		0	0							0
09:00		0	0							0
09:15		0	0							0
09:30		0	0							0
09:45		0	0							0
10:00		0	0							0
10:15		0	0							0
10:30		0	0							0
10:45		0	0							0
11:00		0	0							0
11:15		5	6							11
11:30		10	7							17
11:45		13	8							21
Total		28	21							49
Percent		57.1%	42.9%							
Peak	-	11:00	11:00	-	-	-	-	-	-	11:00
Vol.	-	28	21	-	-	-	-	-	-	49
P.H.F.		0.538	0.656							0.583

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volumes

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview N of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lakeview Dr. north of 475 S.
 Vineyard, Utah

Start Time	26-Jun-14 Thu	SB	NB	Total
12:00 PM		4	18	22
12:15		3	4	7
12:30		12	9	21
12:45		8	5	13
01:00		14	10	24
01:15		8	7	15
01:30		12	5	17
01:45		9	9	18
02:00		5	3	8
02:15		8	1	9
02:30		9	6	15
02:45		8	5	13
03:00		10	10	20
03:15		5	8	13
03:30		4	8	12
03:45		6	3	9
04:00		6	8	14
04:15		11	9	20
04:30		11	7	18
04:45		14	11	25
05:00		14	7	21
05:15		11	7	18
05:30		10	4	14
05:45		10	5	15
06:00		6	8	14
06:15		12	4	16
06:30		7	6	13
06:45		10	6	16
07:00		7	7	14
07:15		9	5	14
07:30		12	8	20
07:45		7	6	13
08:00		5	5	10
08:15		9	9	18
08:30		10	5	15
08:45		11	7	18
09:00		11	6	17
09:15		8	2	10
09:30		3	3	6
09:45		5	2	7
10:00		4	3	7
10:15		7	2	9
10:30		2	3	5
10:45		1	1	2
11:00		4	1	5
11:15		1	2	3
11:30		2	0	2
11:45		1	0	1
Total		366	270	636
Percent		57.5%	42.5%	
Peak	-	16:15	12:00	16:15
Vol.	-	50	36	84
P.H.F.		0.893	0.500	0.840
Grand Total		1117	895	2012
Percent		55.5%	44.5%	

L2 Data Collection

Study #: JUB0053
Count: Volume / Direction
Tech: Judd / Harris
Type: Vehicle Volume

www.L2DataCollection.com
Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview S of 475S VOL
Date Start: 24-Jun-14
Date End: 26-Jun-14
Lake View Dr. south of 475 S.
Vineyard, Utah

Start Time	24-Jun-14 Tue	SB	NB	Total
12:00 AM		*	*	*
12:15		*	*	*
12:30		*	*	*
12:45		*	*	*
01:00		*	*	*
01:15		*	*	*
01:30		*	*	*
01:45		*	*	*
02:00		*	*	*
02:15		*	*	*
02:30		*	*	*
02:45		*	*	*
03:00		*	*	*
03:15		*	*	*
03:30		*	*	*
03:45		*	*	*
04:00		*	*	*
04:15		*	*	*
04:30		*	*	*
04:45		*	*	*
05:00		*	*	*
05:15		*	*	*
05:30		*	*	*
05:45		*	*	*
06:00		*	*	*
06:15		*	*	*
06:30		*	*	*
06:45		4	9	13
07:00		6	6	12
07:15		3	7	10
07:30		8	8	16
07:45		1	14	15
08:00		1	12	13
08:15		2	11	13
08:30		5	12	17
08:45		12	21	33
09:00		15	14	29
09:15		8	14	22
09:30		8	10	18
09:45		13	7	20
10:00		4	14	18
10:15		5	8	13
10:30		12	10	22
10:45		10	10	20
11:00		7	8	15
11:15		14	7	21
11:30		8	14	22
11:45		16	11	27
Total		162	227	389
Percent		41.6%	58.4%	
Peak	-	11:00	08:30	08:45
Vol.	-	45	61	102
P.H.F.		0.703	0.726	0.773

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview S of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lake View Dr. south of 475 S.
 Vineyard, Utah

Start Time	24-Jun-14 Tue	SB	NB	Total
12:00 PM		21	21	42
12:15		13	13	26
12:30		17	17	34
12:45		9	16	25
01:00		20	20	40
01:15		14	11	25
01:30		12	13	25
01:45		12	10	22
02:00		18	7	25
02:15		17	10	27
02:30		19	12	31
02:45		10	14	24
03:00		15	11	26
03:15		19	10	29
03:30		8	15	23
03:45		12	19	31
04:00		9	15	24
04:15		19	12	31
04:30		9	11	20
04:45		14	12	26
05:00		22	11	33
05:15		22	17	39
05:30		24	18	42
05:45		13	14	27
06:00		23	19	42
06:15		24	19	43
06:30		13	5	18
06:45		20	19	39
07:00		20	10	30
07:15		14	10	24
07:30		20	6	26
07:45		28	11	39
08:00		30	16	46
08:15		12	9	21
08:30		5	14	19
08:45		11	10	21
09:00		11	12	23
09:15		14	8	22
09:30		15	8	23
09:45		8	10	18
10:00		6	7	13
10:15		0	3	3
10:30		10	4	14
10:45		7	4	11
11:00		3	1	4
11:15		6	2	8
11:30		3	1	4
11:45		2	3	5
Total		673	540	1213
Percent		55.5%	44.5%	
Peak	-	19:15	17:30	17:30
Vol.	-	92	70	154
P.H.F.		0.767	0.921	0.895

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview S of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lake View Dr. south of 475 S.
 Vineyard, Utah

Start Time	25-Jun-14 Wed	SB	NB							Total
12:00 AM		1	0							1
12:15		0	2							2
12:30		1	1							2
12:45		1	0							1
01:00		0	0							0
01:15		0	1							1
01:30		0	0							0
01:45		0	0							0
02:00		0	0							0
02:15		1	0							1
02:30		1	0							1
02:45		1	0							1
03:00		0	0							0
03:15		2	0							2
03:30		0	0							0
03:45		0	0							0
04:00		0	3							3
04:15		0	1							1
04:30		0	2							2
04:45		1	2							3
05:00		0	1							1
05:15		0	3							3
05:30		2	3							5
05:45		1	5							6
06:00		2	2							4
06:15		2	0							2
06:30		4	7							11
06:45		10	8							18
07:00		12	5							17
07:15		3	8							11
07:30		11	13							24
07:45		9	16							25
08:00		4	13							17
08:15		9	17							26
08:30		8	14							22
08:45		5	24							29
09:00		13	15							28
09:15		16	14							30
09:30		8	23							31
09:45		9	15							24
10:00		12	13							25
10:15		10	7							17
10:30		11	14							25
10:45		11	11							22
11:00		16	15							31
11:15		6	16							22
11:30		9	8							17
11:45		19	14							33
Total		231	316							547
Percent		42.2%	57.8%							
Peak	-	11:00	08:45	-	-	-	-	-	-	08:45
Vol.	-	50	76	-	-	-	-	-	-	118
P.H.F.		0.658	0.792							0.952

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview S of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lake View Dr. south of 475 S.
 Vineyard, Utah

Start Time	25-Jun-14 Wed	SB	NB							Total
12:00 PM		17	15							32
12:15		17	17							34
12:30		31	25							56
12:45		16	15							31
01:00		8	14							22
01:15		15	18							33
01:30		11	10							21
01:45		5	6							11
02:00		15	7							22
02:15		17	14							31
02:30		12	8							20
02:45		12	11							23
03:00		11	15							26
03:15		15	11							26
03:30		7	11							18
03:45		11	8							19
04:00		15	10							25
04:15		16	9							25
04:30		15	8							23
04:45		27	14							41
05:00		20	21							41
05:15		18	27							45
05:30		22	25							47
05:45		21	18							39
06:00		12	14							26
06:15		20	23							43
06:30		17	18							35
06:45		16	24							40
07:00		17	17							34
07:15		24	15							39
07:30		16	5							21
07:45		14	20							34
08:00		8	14							22
08:15		24	7							31
08:30		11	11							22
08:45		17	10							27
09:00		12	9							21
09:15		15	9							24
09:30		15	8							23
09:45		5	10							15
10:00		10	11							21
10:15		9	2							11
10:30		5	4							9
10:45		2	3							5
11:00		4	0							4
11:15		9	5							14
11:30		6	1							7
11:45		1	2							3
Total		663	579							1242
Percent		53.4%	46.6%							
Peak	-	16:45	17:00	-	-	-	-	-	-	16:45
Vol.	-	87	91	-	-	-	-	-	-	174
P.H.F.		0.702	0.843							0.777

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview S of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lake View Dr. south of 475 S.
 Vineyard, Utah

Start Time	26-Jun-14 Thu	SB	NB							Total
12:00 AM		0	0							0
12:15		0	0							0
12:30		2	0							2
12:45		1	3							4
01:00		0	1							1
01:15		0	0							0
01:30		1	0							1
01:45		0	1							1
02:00		0	0							0
02:15		0	0							0
02:30		0	1							1
02:45		1	1							2
03:00		0	0							0
03:15		0	1							1
03:30		0	0							0
03:45		0	0							0
04:00		0	0							0
04:15		0	0							0
04:30		0	1							1
04:45		0	1							1
05:00		0	0							0
05:15		1	2							3
05:30		2	3							5
05:45		1	5							6
06:00		2	4							6
06:15		1	4							5
06:30		0	2							2
06:45		3	7							10
07:00		6	9							15
07:15		6	9							15
07:30		9	23							32
07:45		9	15							24
08:00		4	11							15
08:15		4	15							19
08:30		9	19							28
08:45		7	13							20
09:00		7	23							30
09:15		4	19							23
09:30		5	11							16
09:45		13	12							25
10:00		7	13							20
10:15		10	7							17
10:30		8	6							14
10:45		11	17							28
11:00		4	10							14
11:15		12	7							19
11:30		18	11							29
11:45		24	13							37
Total		192	300							492
Percent		39.0%	61.0%							
Peak	-	11:00	08:30	-	-	-	-	-	-	08:30
Vol.	-	58	74	-	-	-	-	-	-	101
P.H.F.		0.604	0.804							0.842

L2 Data Collection

Study #: JUB0053
 Count: Volume / Direction
 Tech: Judd / Harris
 Type: Vehicle Volume

www.L2DataCollection.com
 Idaho (208) 860-7554 Utah (801) 413-2993

Lakeview S of 475S VOL
 Date Start: 24-Jun-14
 Date End: 26-Jun-14
 Lake View Dr. south of 475 S.
 Vineyard, Utah

Start Time	26-Jun-14 Thu	SB	NB							Total
12:00 PM		5	25							30
12:15		5	7							12
12:30		20	19							39
12:45		11	5							16
01:00		16	15							31
01:15		18	15							33
01:30		17	9							26
01:45		11	17							28
02:00		10	8							18
02:15		9	5							14
02:30		10	11							21
02:45		11	14							25
03:00		13	13							26
03:15		14	12							26
03:30		6	15							21
03:45		9	7							16
04:00		10	15							25
04:15		17	14							31
04:30		14	13							27
04:45		18	15							33
05:00		28	18							46
05:15		20	12							32
05:30		16	8							24
05:45		15	11							26
06:00		11	13							24
06:15		18	8							26
06:30		17	13							30
06:45		13	12							25
07:00		13	11							24
07:15		12	6							18
07:30		11	12							23
07:45		9	11							20
08:00		9	7							16
08:15		10	11							21
08:30		15	9							24
08:45		8	11							19
09:00		15	9							24
09:15		13	4							17
09:30		8	6							14
09:45		13	2							15
10:00		7	4							11
10:15		8	6							14
10:30		5	5							10
10:45		5	2							7
11:00		5	2							7
11:15		2	1							3
11:30		1	0							1
11:45		1	0							1
Total		552	468							1020
Percent		54.1%	45.9%							
Peak	-	16:45	16:15	-	-	-	-	-	-	16:30
Vol.	-	82	60	-	-	-	-	-	-	138
P.H.F.		0.732	0.833							0.750
Grand Total		2473	2430							4903
Percent		50.4%	49.6%							



J-U-B ENGINEERS, INC.

J-U-B COMPANIES



**THE
LANGDON
GROUP**



**GATEWAY
MAPPING
INC.**

APPENDIX 2

CRASH DATA

6/24/14

RECEIVED
7/7/14

GRAMA REQUEST FOR RECORDS

To: Utah County Sheriff's Office Records

(Name of person and/or government office holding records)

Address of government office: 3075 North Main, Spanish Fork, UT 84660

Description of records sought (records must be described with reasonable specificity):

The Town of Vineyard, Utah is conducting two engineering studies for the intersections of 400 South/Holdaway Road and Lake View Drive/475 South in Vineyard. The engineering studies will evaluate the safety of the two intersections and recommend improvements to address the deficiencies in that regard, we respectfully request the latest accident database for the above intersections for the last three years in Excel or Access formats. The details requested are DLD number, Crash ID, Agency, date, location/milepost, intersecting roadway, manner collision, Crash severity, roadway junction related, injury, fatality, property damage, type of accident, light condition, roadway surface condition, first harmful event, DUI, weather conditions, contributing circumstances, vehicle type, number of vehicles involved, vehicle 1 travel direction, vehicle 2 travel direction, movement 1, movement 2, movement 3, pedestrians, bicyclists, fixed objects, driver action, work zone related, worker present, work zone ID, and the like.

☐

I would like to inspect the records

☐

I would like to receive a copy of the records. I understand that I will be responsible for copy costs. I authorize costs of up to \$ _____.

☒

I would like to receive a copy of the records and request a waiver of copy costs because:

☒ Release of the records primarily benefits the public rather than me.

☐ I am the subject of the record.

☐ I am the authorized representative of the subject of the record.

☐ My legal rights are directly affected by the record and I am impecunious.

(Please attach information supporting your request for waiver of fees.)

If the requested records are not public, please explain why you believe you are entitled to access.

☐

I am the subject of the record.

☐

I am the person who provided the information.

☐

I am authorized to have access by the subject of the record or by the person who submitted the information. (please attach documentation required by U.C.A. §63G-2-202.)

☒

Other. Explain: To help with engineering studies in Vineyard that would benefit the public

☐

I am requesting an expedited response. (Please attach information that shows your status as a member of the media and a statement that the records are required for a story for broadcast or publication; or please attach other information that demonstrates that you are entitled to expedited response under U.C.A. §63G-2-204(3).)

My name is: Don Overson

My address is: 240 East Gammon Road

City, State, Zip Code: Vineyard, Utah 84058

My daytime telephone number is: 801-226-1929

Don E. Overson

Signature

06/16/14

Date

*If further details are needed regarding this info. Please let me know and we will do what we can to help.
Murray Rose
801-451-4337
Thanks!
7/12/14

6/1/2011-
6/1/2014

Incident #	When reported	Incident address	Offense Observed
11UC12994	12/15/2011 13:34	620 E HOLDAWAY RD	Traffic Accident Reportable
12UC03857	4/26/2012 12:35	620 E HOLDAWAY RD	Traffic Accident Reportable
12UC09542	9/18/2012 9:22	571 S LAKE VIEW DR	Traffic Accident Reportable
13UC07731	8/16/2013 11:25	539 S LAKE VIEW DR	Traffic Accident Reportable
13UC08257	8/29/2013 13:46	620 E HOLDAWAY RD	Traffic Accident Hit & Run
13UC08859	9/13/2013 18:54	380 S HOLDAWAY RD	Traffic Accident Non Reportable
13UC11500	12/3/2013 8:58	30 W LAKE VIEW DR	Traffic Accident Reportable
14UC01460	2/18/2014 8:21	729 S LAKE VIEW DR	Traffic Accident Reportable

Location

Vineyard Elementary School Parking Lot

Vineyard Elementary School Parking Lot

Pulling out of driveway on 571

Single vehicle hit a light pole

Vineyard Elementary School Parking Lot

Private property- hit vehicle pulling out of farm

Traveling eastbound, left of center, view obstructed by large dumpster

Backed into car doing a 3 point turn