

San Diego County Traffic Advisory Committee



Committee Secretary
5510 Overland Avenue #410, Room 470, M.S. 0-334
San Diego, California 92123-1239
(858) 694-3843

Represented Agencies
Automobile Club of Southern
California
California Department of
Transportation
California Highway Patrol
Independent Insurance Agents
& Brokers of San Diego
San Diego County Bicycle Coalition
San Diego County Department of
Public Works
San Diego County Office of Education
San Diego County Pacific Safety
Council
San Diego County
Sheriff's Department

February 28, 2019

TO: Community Planning/Sponsor Group Chairpersons

FROM: Secretary, Traffic Advisory Committee

MEETING NOTICE

Attached is the preliminary agenda for the March 08, 2019, meeting of the Traffic Advisory Committee (TAC). The meeting will begin at 9:00 AM in the following location:

Department of Public Works
Second Floor, Room 271
5510 Overland Avenue
San Diego, CA 92123

Your community group may have previously provided formal input on these matters and your group's recommendations would be included as part of the Chief Administrative Officer's report to the Board of Supervisors along with TAC recommendations. The Board of Supervisors will make a final decision as to what action will be taken after reviewing TAC recommendations and community group input, when available.

If your community planning/sponsor group representative would like to attend the TAC meeting and participate in the discussion of an item on this agenda, or if you do have any questions or need additional information regarding this procedure, please contact me at (858) 694-3843. TAC staff is available to provide background information on items and to answer questions you may have.

Very truly yours,

Kenton R. Jones, Secretary
San Diego County Traffic Advisory Committee

KRJ:bb

Attachment



SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

March 08, 2018 ~ 9:00 AM

5510 Overland Ave, Room 271

San Diego CA, 92123

AGENDA

- I. Call to Order / Roll Call**
- II. Pledge of Allegiance**
- III. Approval of Minutes**
- IV. Items for Review**

SUBJECT	LOCATION	AREA	PLANNING/ SPONSOR GROUP
<u>SUPERVISORIAL DISTRICT 2</u>			
2-A. RADAR RECERTIFICATION	LOS COCHES RD	LAKESIDE	LAKESIDE
2-B. RADAR RECERTIFICATION	OAK CREEK RD	LAKESIDE	LAKESIDE
2-C. RADAR RECERTIFICATION	WILLOW RD	LAKESIDE	LAKESIDE

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: March 08, 2018

Item **2-A**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Los Coches Road from Julian Avenue to Highway 8 Business (a distance of 1.9 miles) LAKESIDE (Thos. Bros. 1232-B4)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Los Coches Road from Julian Avenue to Highway 8 Business has a posted 45 MPH speed limit. Preliminary review of prevailing speeds and roadway conditions could support radar certification.

Existing Traffic Devices

Los Coches Road is a striped three-lane roadway that measures 32-64 feet in width. The roadway is striped with a two-way left turn lane and a bicycle lane separating a travel and parking lane in both directions. The road is a Community Collector on the County General Plan Mobility Element Network. Los Coches Road has a posted formal speed limit of 45 MPH.

<u>Average Daily Traffic Volumes</u>	<u>12/18</u>	<u>08/08</u>
Los Coches Road		
200' N/o Ha Hana Road	14,460	
200' N/o Highway 8 Business		15,700
200' S/o Julian Avenue		12,660

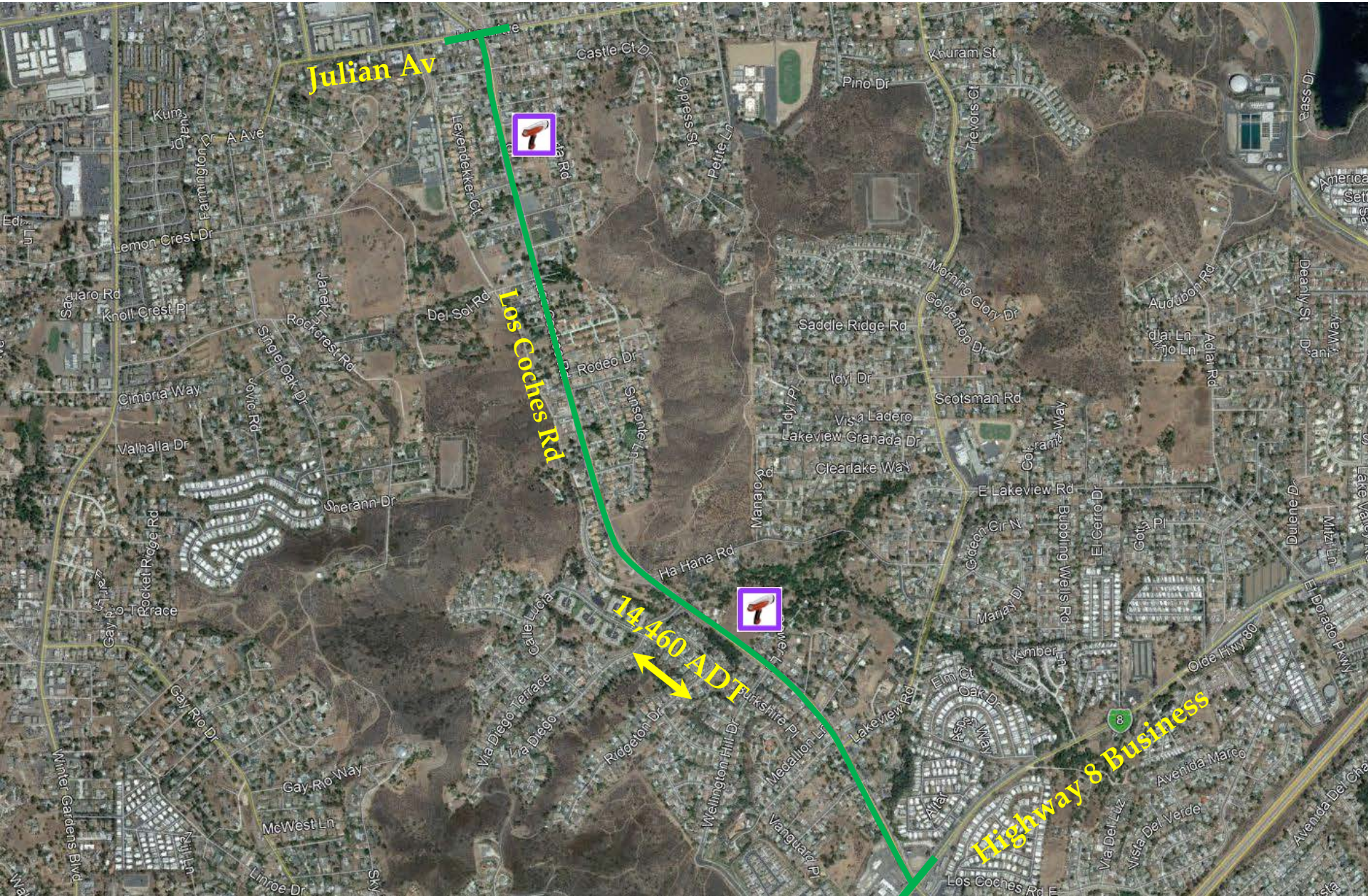
<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Los Coches Road				
1,900' S/o Castle Court Dr	(2018)	50.5 MPH	43-52	90.0%
	(2011)	49.0 MPH	41-50	78.3%
750' S/o Via Diego	(2018)	51.5 MPH	42-51	82.0%
	(2011)	48.0 MPH	39-48	80.8%
Speed Zone	(2018)	51.0 MPH	43-52	86.0%

Collision Data

There have been 53 reported collisions along this segment of roadway, 24 of which involved injury, in a 3 year period (11-01-15 to 10-31-18). These collisions result in a segment accident rate of 1.80 collisions per million vehicle miles. The statewide average is 1.03 collisions per million vehicle miles for similar suburban conventional 3 lanes.

2-A. Radar Recertification

Los Coches Rd from Julian Av to Hwy 8 Business (1.9 miles)



VOLUME

Los Coches Rd 200' N/O Ha Hana Rd

Day: Tuesday
Date: 12/11/2018City: Lakeside
Project #: CA18_4458_009

DAILY TOTALS					NB	SB	EB					WB	Total
					6,690	7,463						0	0
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL		
00:00	17	5			22	12:00	97	91			188		
00:15	6	9			15	12:15	87	100			187		
00:30	3	3			6	12:30	80	105			185		
00:45	7	33	7	24	14	12:45	101	365	96	392	197	757	
01:00	8	8			16	13:00	77	105			182		
01:15	4	7			11	13:15	110	119			229		
01:30	2	4			6	13:30	97	115			212		
01:45	8	22	4	23	12	13:45	111	395	103	442	214	837	
02:00	8	6			14	14:00	106	129			235		
02:15	2	4			6	14:15	130	142			272		
02:30	3	6			9	14:30	123	174			297		
02:45	3	16	6	22	9	14:45	92	451	170	615	262	1066	
03:00	5	4			9	15:00	121	168			289		
03:15	7	6			13	15:15	141	187			328		
03:30	10	2			12	15:30	118	201			319		
03:45	15	37	4	16	19	15:45	97	477	184	740	281	1217	
04:00	11	6			17	16:00	150	183			333		
04:15	20	7			27	16:15	124	207			331		
04:30	26	14			40	16:30	125	208			333		
04:45	29	86	15	42	44	16:45	100	499	213	811	313	1310	
05:00	43	15			58	17:00	128	181			309		
05:15	60	20			80	17:15	128	198			326		
05:30	60	29			89	17:30	111	154			265		
05:45	63	226	31	95	94	17:45	110	477	160	693	270	1170	
06:00	73	44			117	18:00	96	150			246		
06:15	94	44			138	18:15	96	139			235		
06:30	120	82			202	18:30	65	133			198		
06:45	147	434	53	223	200	18:45	63	320	121	543	184	863	
07:00	155	62			217	19:00	63	93			156		
07:15	181	96			277	19:15	68	100			168		
07:30	135	103			238	19:30	68	96			164		
07:45	150	621	104	365	254	19:45	47	246	83	372	130	618	
08:00	130	104			234	20:00	61	88			149		
08:15	126	136			262	20:15	54	81			135		
08:30	104	93			197	20:30	48	58			106		
08:45	91	451	79	412	170	20:45	47	210	50	277	97	487	
09:00	104	98			202	21:00	39	64			103		
09:15	94	77			171	21:15	43	58			101		
09:30	74	70			144	21:30	31	48			79		
09:45	76	348	73	318	149	21:45	33	146	35	205	68	351	
10:00	86	91			177	22:00	30	32			62		
10:15	83	68			151	22:15	14	21			35		
10:30	87	74			161	22:30	23	19			42		
10:45	83	339	85	318	168	22:45	19	86	20	92	39	178	
11:00	83	79			162	23:00	12	16			28		
11:15	90	98			188	23:15	14	16			30		
11:30	79	93			172	23:30	19	9			28		
11:45	86	338	94	364	180	23:45	22	67	18	59	40	126	
TOTALS	2951	2222			5173	TOTALS	3739	5241			8980		
SPLIT %	57.0%	43.0%			36.6%	SPLIT %	41.6%	58.4%			63.4%		

DAILY TOTALS					NB	SB						EB	WB	Total
					6,690	7,463						0	0	14,153
AM Peak Hour	07:00	07:30			07:15	PM Peak Hour	15:15	16:00			16:00			
AM Pk Volume	621	447			1003	PM Pk Volume	506	811			1310			
Pk Hr Factor	0.858	0.822			0.905	Pk Hr Factor	0.843	0.952			0.983			
7 - 9 Volume	1072	777	0	0	1849	4 - 6 Volume	976	1504	0	0	2480			
7 - 9 Peak Hour	07:00	07:30			07:15	4 - 6 Peak Hour	16:00	16:00			16:00			
7 - 9 Pk Volume	621	447	0	0	1003	4 - 6 Pk Volume	499	811	0	0	1310			
Pk Hr Factor	0.858	0.822	0.000	0.000	0.905	Pk Hr Factor	0.832	0.952	0.000	0.000	0.983			



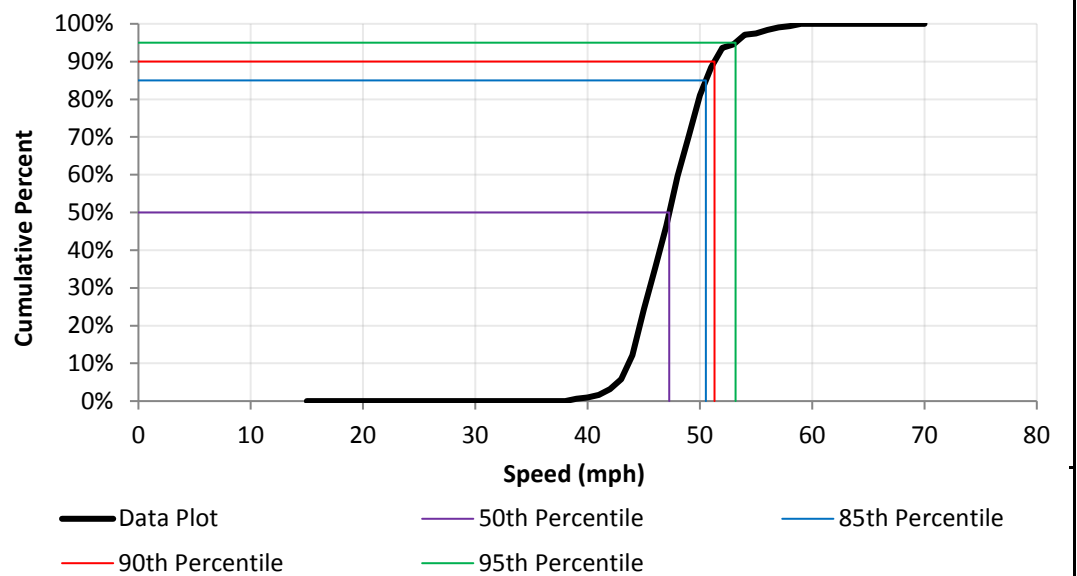
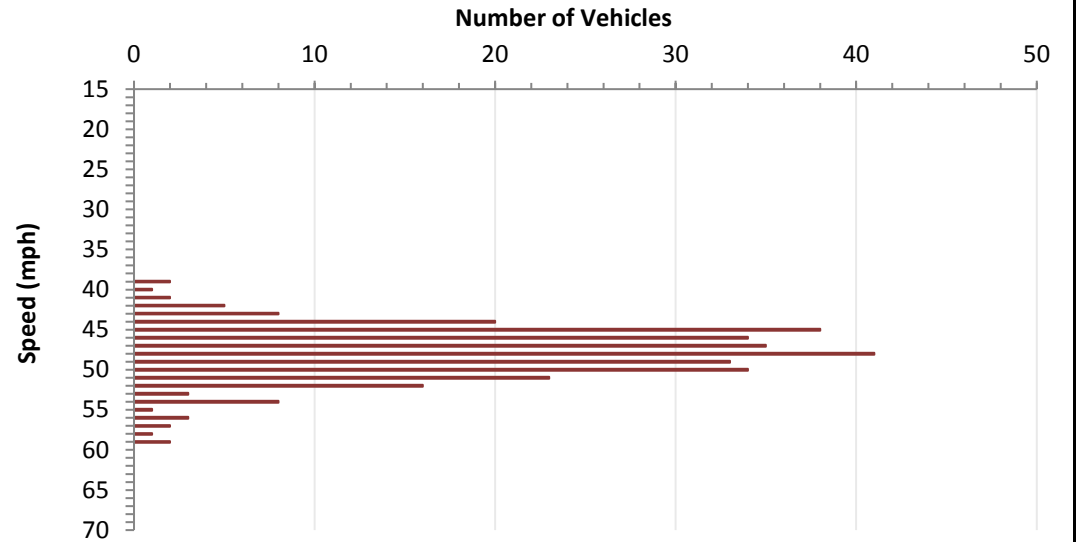
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Los Cocheros Rd	From:	Julian Av	To:	Highway 8 Business
Position:	1,900' S/o Castle Court Dr	Direction:	NB/SB		

Date:	12/3/2018	Weather:	Clear	Project Number:	18-4457-014
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39	2	0.6%
40	1	1.0%
41	2	1.6%
42	5	3.2%
43	8	5.8%
44	20	12.2%
45	38	24.4%
46	34	35.3%
47	35	46.5%
48	41	59.6%
49	33	70.2%
50	34	81.1%
51	23	88.5%
52	16	93.6%
53	3	94.6%
54	8	97.1%
55	1	97.4%
56	3	98.4%
57	2	99.0%
58	1	99.4%
59	2	100.0%
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	312	



DATA ANALYSIS

Average Speed	47.9	Range	39 - 59
50th Percentile	47.3	10 mph Pace	43 - 52
85th Percentile	50.5	Number in Pace	282
90th Percentile	51.3	Percent in Pace	90%
95th Percentile	53.2		



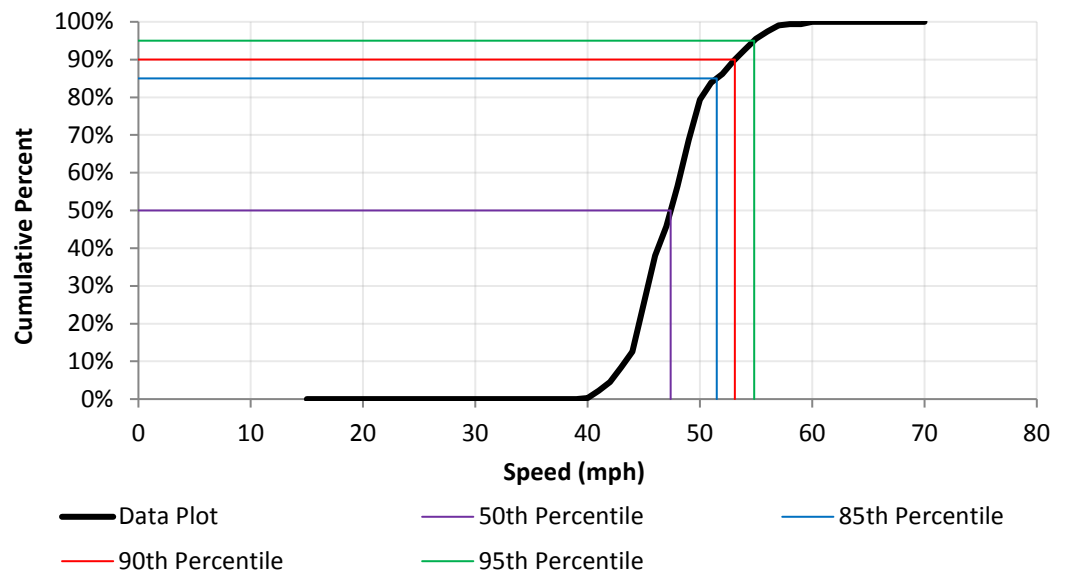
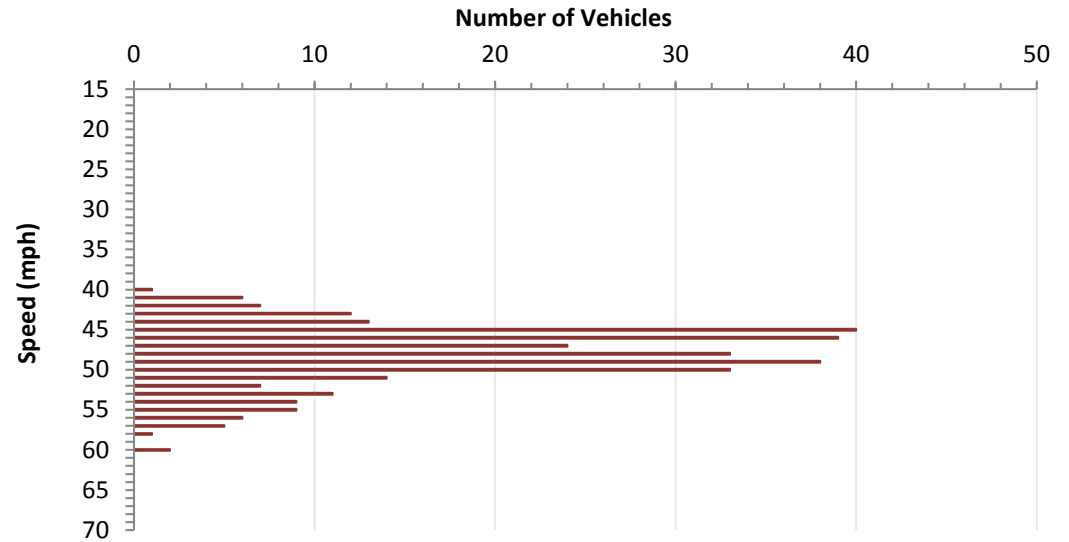
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Los Coches Rd	From:	Julian Av	To:	Highway 8 Business
Position:	750' S/o Via Diego	Direction:	NB/SB		

Date:	12/3/2018	Weather:	Clear	Project Number:	18-44-57-013
Time Start:	11:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:00 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40	1	0.3%
41	6	2.3%
42	7	4.5%
43	12	8.4%
44	13	12.6%
45	40	25.5%
46	39	38.1%
47	24	45.8%
48	33	56.5%
49	38	68.7%
50	33	79.4%
51	14	83.9%
52	7	86.1%
53	11	89.7%
54	9	92.6%
55	9	95.5%
56	6	97.4%
57	5	99.0%
58	1	99.4%
59		
60	2	100.0%
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	310	



DATA ANALYSIS

Average Speed	48.2	Range	40 - 60
50th Percentile	47.4	10 mph Pace	42 - 51
85th Percentile	51.5	Number in Pace	253
90th Percentile	53.1	Percent in Pace	82%
95th Percentile	54.8		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: March 08, 2018

Item 2-B

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Oak Creek Road from Flinn Springs Road easterly to Olde Highway 80 (a distance of 1.5 miles) LAKESIDE (Thos. Bros. 1232-J3)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Oak Creek Road from Flinn Springs Road to Olde Highway 80 has a posted 45 MPH Radar Enforced speed limit. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Oak Creek Road is a striped two-lane roadway that measures 30 feet in width with a 24 foot travelled way. The roadway is striped with a centerline that varies between no passing striping, one way passing and two way passing variations. The road is unclassified on the County General Plan Mobility Element Network. Oak Creek Drive has a posted speed limit of 45 MPH/Radar Enforced.

Average Daily Traffic Volumes

Oak Creek Road

850' N/o Olde Highway 80

12/18

1,980

08/08

1,540

Speed Data

Oak Creek Road

@ Towne Lane

(2018)

(2011)

**85th
Percentile**

47.5 MPH

49.9 MPH

**10 MPH
Pace**

38-47

37-46

**% in
Pace**

68.0%

65.9%

@ Robledo Real Road

(2018)

41.7 MPH

33-42

89.0%

Speed Zone

(2018)

44.6 MPH

36-45

78.5%

Collision Data

There have been 4 reported collisions along this segment of roadway, 1 of which involved injury, in a 3 year period (11-01-15 to 10-31-18). These collisions result in a segment accident rate of 1.23 collisions per million vehicle miles. The statewide average is 1.19 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit between 45-55 MPH.

2-B. Radar Recertification

Oak Creek Rd from Flinn Springs Rd to Olde Hwy 80 (1.5 miles)



VOLUME

Oak Creek Rd 850' N/O Olde Hwy 80

Date: Tuesday
Date: 12/11/2018

City: El Cajon
Project #: CA18_4458_007

DAILY TOTALS					NB	SB					Total
					982	995					1,977
AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	0	0			0	12:00	8	10			18
00:15	0	0			0	12:15	15	14			29
00:30	0	0			0	12:30	14	7			21
00:45	0	1	1		1	12:45	19	56	9	40	28
01:00	0	0			0	13:00	14	17			31
01:15	1	0			1	13:15	20	5			25
01:30	0	1			1	13:30	35	8			43
01:45	1	2	0	1	1	13:45	39	108	14	44	53
02:00	0	0			0	14:00	28	101			129
02:15	0	0			0	14:15	15	47			62
02:30	1	0			1	14:30	20	20			40
02:45	0	1	0		0	14:45	17	80	11	179	28
03:00	0	0			0	15:00	11	17			28
03:15	0	0			0	15:15	18	15			33
03:30	0	1			1	15:30	24	22			46
03:45	0	1	2		1	15:45	24	77	16	70	40
04:00	0	0			0	16:00	23	19			42
04:15	0	1			1	16:15	14	12			26
04:30	0	2			2	16:30	22	9			31
04:45	0	6	9		6	16:45	19	78	18	58	37
05:00	2	2			4	17:00	17	15			32
05:15	0	4			4	17:15	21	14			35
05:30	2	8			10	17:30	22	6			28
05:45	3	7	5	19	8	17:45	15	75	12	47	27
06:00	4	7			11	18:00	14	6			20
06:15	3	8			11	18:15	14	5			19
06:30	7	12			19	18:30	11	8			19
06:45	18	32	12	39	30	18:45	6	45	4	23	10
07:00	11	14			25	19:00	13	5			18
07:15	26	10			36	19:15	7	8			15
07:30	76	44			120	19:30	8	6			14
07:45	71	184	86	154	157	19:45	6	34	2	21	8
08:00	17	74			91	20:00	9	2			11
08:15	9	25			34	20:15	4	4			8
08:30	14	23			37	20:30	7	1			8
08:45	12	52	19	141	31	20:45	4	24	1	8	5
09:00	7	8			15	21:00	2	1			3
09:15	14	15			29	21:15	5	1			6
09:30	6	16			22	21:30	1	1			2
09:45	10	37	13	52	23	21:45	3	11	1	4	4
10:00	8	8			16	22:00	3	0			3
10:15	8	14			22	22:15	1	0			1
10:30	9	12			21	22:30	2	1			3
10:45	8	33	13	47	21	22:45	2	8	1	2	3
11:00	8	9			17	23:00	1	0			1
11:15	7	9			16	23:15	1	0			1
11:30	10	10			20	23:30	0	0			0
11:45	11	36	6	34	17	23:45	0	2	0		0
TOTALS	384	499			883	TOTALS	598	496			1094
SPLIT %	43.5%	56.5%			44.7%	SPLIT %	54.7%	45.3%			55.3%

DAILY TOTALS					NB	SB					Total
					982	995					1,977
AM Peak Hour	07:15	07:30			07:15	PM Peak Hour	13:15	13:45			13:30
AM Pk Volume	190	229			404	PM Pk Volume	122	182			287
Pk Hr Factor	0.625	0.666			0.643	Pk Hr Factor	0.782	0.450			0.556
7 - 9 Volume	236	295	0	0	531	4 - 6 Volume	153	105	0	0	258
7 - 9 Peak Hour	07:15	07:30			07:15	4 - 6 Peak Hour	16:30	16:00			16:00
7 - 9 Pk Volume	190	229	0	0	404	4 - 6 Pk Volume	79	58	0	0	136
Pk Hr Factor	0.625	0.666	0.000	0.000	0.643	Pk Hr Factor	0.898	0.763	0.000	0.000	0.810

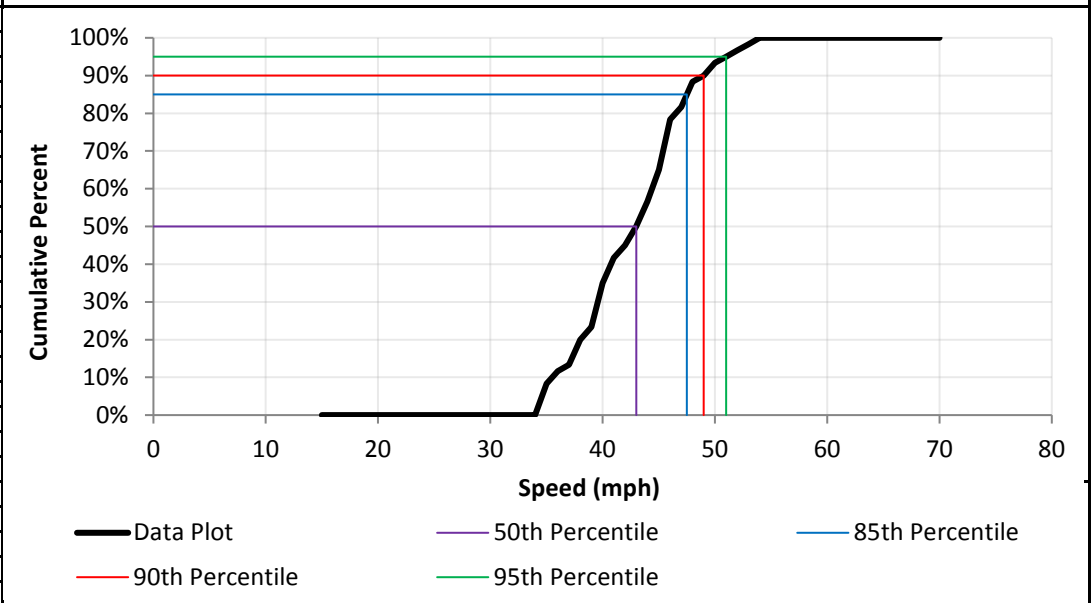
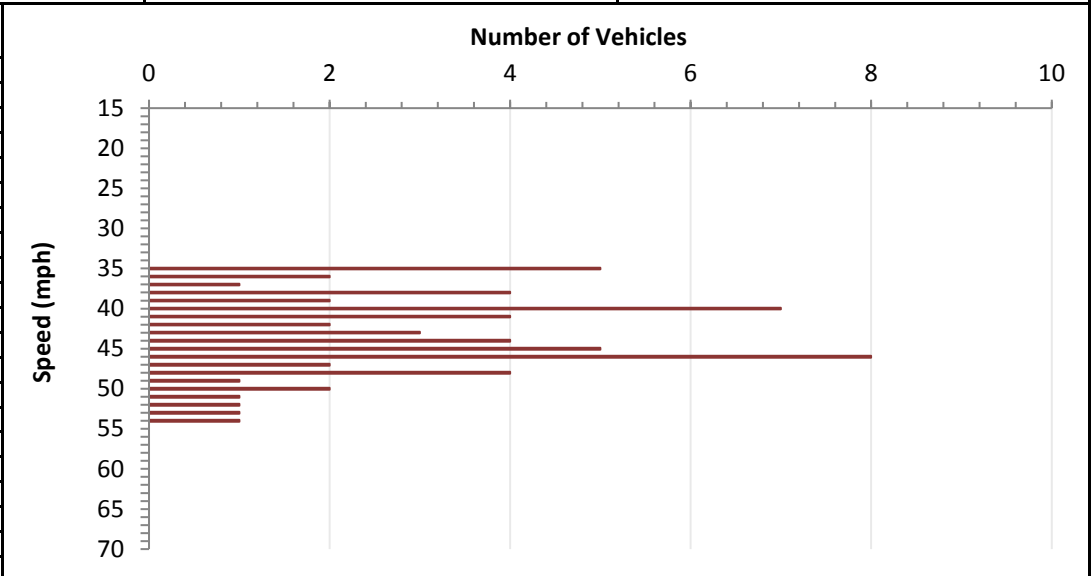


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Oak Creek Rd	From:	Flinn Springs Rd	To:	Olde Highway 80
Position:	@ Towne Ln	Direction:	NB/SB		
Date:	12/11/2018	Weather:	Clear	Project Number:	18-4457-011
Time Start:	9:30 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:30 AM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35	5	8.3%
36	2	11.7%
37	1	13.3%
38	4	20.0%
39	2	23.3%
40	7	35.0%
41	4	41.7%
42	2	45.0%
43	3	50.0%
44	4	56.7%
45	5	65.0%
46	8	78.3%
47	2	81.7%
48	4	88.3%
49	1	90.0%
50	2	93.3%
51	1	95.0%
52	1	96.7%
53	1	98.3%
54	1	100.0%
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	60	



DATA ANALYSIS			
Average Speed	43.1	Range	35 - 54
50th Percentile	43.0	10 mph Pace	38 - 47
85th Percentile	47.5	Number in Pace	41
90th Percentile	49.0	Percent in Pace	68%
95th Percentile	51.0		



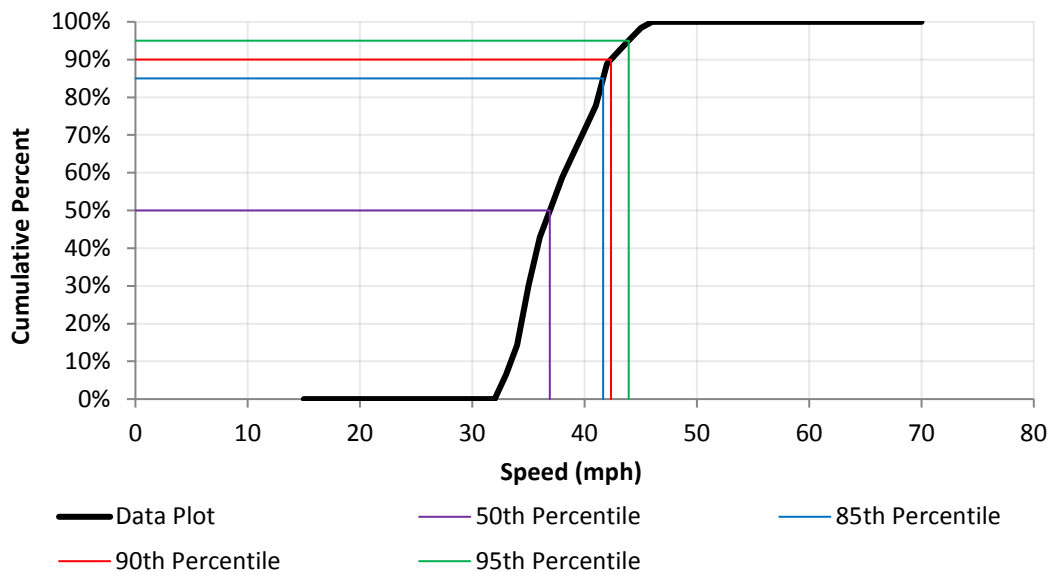
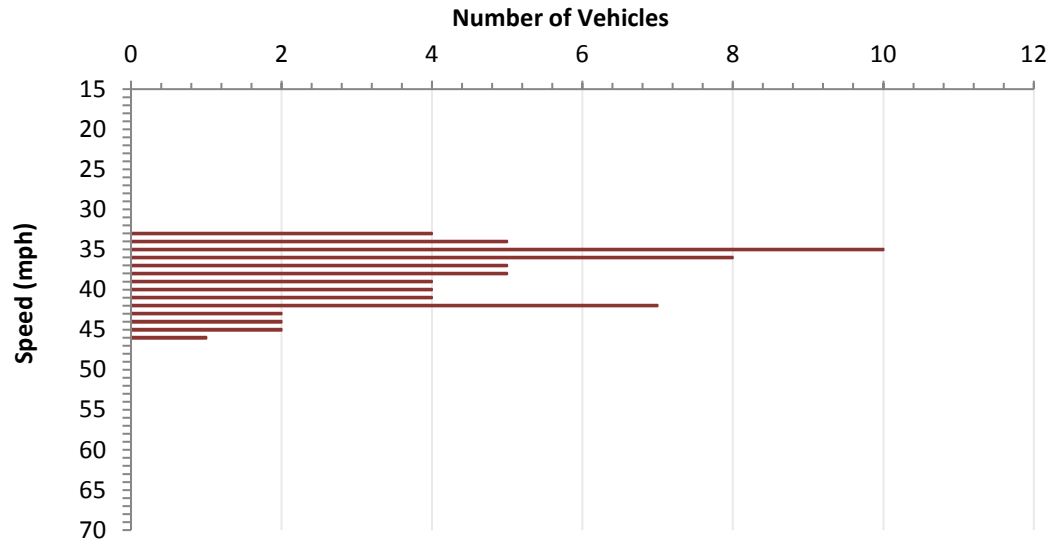
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Oak Creek Rd	From:	Flinn Springs Rd	To:	Olde Highway 80
Position:	@ Robledo Real Rd	Direction:	NB/SB		

Date:	12/11/2018	Weather:	Clear	Project Number:	18-4457-009
Time Start:	11:30 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:30 PM	Posted Speed:	45 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33	4	6.3%
34	5	14.3%
35	10	30.2%
36	8	42.9%
37	5	50.8%
38	5	58.7%
39	4	65.1%
40	4	71.4%
41	4	77.8%
42	7	88.9%
43	2	92.1%
44	2	95.2%
45	2	98.4%
46	1	100.0%
47		
48		
49		
50		
51		
52		
53		
54		
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56		
57		
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60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	63	



DATA ANALYSIS

Average Speed	38.1	Range	33 - 46
50th Percentile	36.9	10 mph Pace	33 - 42
85th Percentile	41.7	Number in Pace	56
90th Percentile	42.4	Percent in Pace	89%
95th Percentile	43.9		

SAN DIEGO COUNTY TRAFFIC ADVISORY COMMITTEE

COMMITTEE REPORT OF: March 08, 2018

Item **2-C**

SUPERVISORIAL DISTRICT: 2

SUBJECT: Radar Recertification

LOCATION: Willow Road from State Route 67 to Wildcat Canyon Road/Ashwood Street (a distance of 0.95 miles)
LAKESIDE (Thos. Bros. 1232-A1)

INITIATED BY: DPW Traffic Engineering

REQUEST: Radar Recertification

PROBLEM AS STATED BY REQUESTER:

Willow Road from State Route 67 to Wildcat Canyon Road/Ashwood Street has a posted 35 MPH Radar Enforced speed limit. Preliminary review of prevailing speeds and roadway conditions could support radar recertification.

Existing Traffic Devices

Willow Road is a striped two-lane roadway that measures 30-52 feet in width with a 24-34 foot travelled way. The roadway is striped with a double yellow center line and white edgeline. Willow Road has traffic calming features including speed advisory intersection traffic circles, median islands and AC dikes adjacent to the painted edgeline. The roadway is also 7 ton weight restricted. The road is a Light Collector on the County General Plan Mobility Element Network. Oak Creek Drive has a posted speed limit of 35 MPH Radar Enforced.

<u>Average Daily Traffic Volumes</u>	<u>12/18</u>	<u>08/08</u>
Willow Road		
200' W/o Moreno Avenue	8,100	9,740
200' E/o Fillbrook Drive	7,980	9,140

<u>Speed Data</u>		<u>85th Percentile</u>	<u>10 MPH Pace</u>	<u>% in Pace</u>
Willow Road				
200' W/o Moreno Avenue	(2018)	40.7 MPH	32-41	70.0%
	(2011)	39.3 MPH	32-41	80.5%
200' E/o Fillbrook Drive	(2018)	42.6 MPH	32-41	64.0%
	(2011)	40.8 MPH	33-42	81.7%
Speed Zone	(2018)	41.7 MPH	32-41	67.0%

Collision Data

There have been 25 reported collisions along this segment of roadway, 7 of which involved injury, in a 3 year period (11-01-15 to 10-31-18). These collisions result in a segment accident rate of 2.99 collisions per million vehicle miles. The statewide average is 1.80 collisions per million vehicle miles for similar suburban conventional 2 lanes or less with speed limit less than 45 MPH.

2-C. Radar Recertification

Willow Rd from SR-67 to Wildcat Canyon Rd (0.95 miles)



VOLUME

Willow Rd 200' W/O Moreno Ave

Day: Tuesday
Date: 12/11/2018City: Lakeside
Project #: CA18_4458_004

DAILY TOTALS					NB	SB	EB					WB	Total
					0	0						4,425	3,675
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00			12	24	36		12:00			43	28	71	
00:15			14	21	35		12:15			43	32	75	
00:30			6	22	28		12:30			46	57	103	
00:45			13	45	24	91	12:45			37	169	47	164
					37	136						84	333
01:00			6	29	35		13:00			42	33	75	
01:15			8	32	40		13:15			65	47	112	
01:30			6	24	30		13:30			66	60	126	
01:45			5	25	12	97	13:45			44	217	44	184
					17	122						88	401
02:00			4	20	24		14:00			61	44	105	
02:15			7	14	21		14:15			102	57	159	
02:30			4	16	20		14:30			90	54	144	
02:45			7	22	14	64	14:45			120	373	57	212
					21	86						177	585
03:00			3	14	17		15:00			88	43	131	
03:15			5	17	22		15:15			106	40	146	
03:30			3	12	15		15:30			131	53	184	
03:45			6	17	12	55	15:45			137	462	59	195
					18	72						196	657
04:00			4	16	20		16:00			148	40	188	
04:15			9	24	33		16:15			140	52	192	
04:30			9	26	35		16:30			157	40	197	
04:45			8	30	16	82	16:45			134	579	43	175
					24	112						177	754
05:00			5	27	32		17:00			131	35	166	
05:15			4	34	38		17:15			124	47	171	
05:30			16	41	57		17:30			145	50	195	
05:45			10	35	52	154	17:45			136	536	25	157
					62	189						161	693
06:00			10	58	68		18:00			114	37	151	
06:15			18	58	76		18:15			115	39	154	
06:30			27	96	123		18:30			89	34	123	
06:45			78	133	70	282	18:45			72	390	32	142
					148	415						104	532
07:00			54	78	132		19:00			53	29	82	
07:15			19	140	159		19:15			71	34	105	
07:30			29	111	140		19:30			43	24	67	
07:45			37	139	96	425	19:45			41	208	32	119
					133	564						73	327
08:00			31	68	99		20:00			45	44	89	
08:15			25	69	94		20:15			48	25	73	
08:30			32	55	87		20:30			39	30	69	
08:45			38	126	38	230	20:45			34	166	24	123
					76	356						58	289
09:00			40	28	68		21:00			30	17	47	
09:15			41	34	75		21:15			33	31	64	
09:30			30	32	62		21:30			32	26	58	
09:45			38	149	36	130	21:45			23	118	20	94
					74	279						43	212
10:00			44	36	80		22:00			26	28	54	
10:15			48	31	79		22:15			13	26	39	
10:30			42	31	73		22:30			20	27	47	
10:45			50	184	28	126	22:45			24	83	28	109
					78	310						52	192
11:00			41	33	74		23:00			14	37	51	
11:15			34	38	72		23:15			16	43	59	
11:30			47	34	81		23:30			10	28	38	
11:45			37	159	33	138	23:45			20	60	19	127
					70	297						39	187
TOTALS			1064	1874	2938		TOTALS			3361	1801	5162	
SPLIT %			36.2%	63.8%	36.3%		SPLIT %			65.1%	34.9%	63.7%	

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						4,425	3,675						8,100
AM Peak Hour			10:00	07:00	06:45		PM Peak Hour			15:45	14:00	15:45							
AM Pk Volume			184	425	579		PM Pk Volume			582	212	773							
Pk Hr Factor			0.920	0.759	0.910		Pk Hr Factor			0.927	0.930	0.981							
7 - 9 Volume	0	0	265	655	920		4 - 6 Volume	0	0	1115	332	1447							
7 - 9 Peak Hour			07:00	07:00	07:00		4 - 6 Peak Hour			16:00	16:00	16:00							
7 - 9 Pk Volume	0	0	139	425	564		4 - 6 Pk Volume	0	0	579	175	754							
Pk Hr Factor	0.000	0.000	0.644	0.759	0.887		Pk Hr Factor	0.000	0.000	0.922	0.841	0.957							

VOLUME

Willow Rd 200' E/O Fillbrook Dr

Day: Tuesday
Date: 12/11/2018City: Lakeside
Project #: CA18_4458_005

DAILY TOTALS					NB	SB	EB					WB	Total
					0	0	4,301					3,678	7,979
AM Period	NB	SB	EB	WB	TOTAL		PM Period	NB	SB	EB	WB	TOTAL	
00:00			14	25	39		12:00			36	31	67	
00:15			14	20	34		12:15			39	34	73	
00:30			5	22	27		12:30			41	61	102	
00:45			14	47	26	93	12:45			36	152	44	170
					40	140						80	322
01:00			6	27	33		13:00			35	35	70	
01:15			7	32	39		13:15			58	51	109	
01:30			6	25	31		13:30			56	62	118	
01:45			4	23	11	95	13:45			52	201	51	199
					15	118						103	400
02:00			5	21	26		14:00			58	47	105	
02:15			7	13	20		14:15			86	59	145	
02:30			4	15	19		14:30			88	56	144	
02:45			5	21	14	63	14:45			111	343	63	225
					19	84						174	568
03:00			3	15	18		15:00			87	44	131	
03:15			4	17	21		15:15			91	45	136	
03:30			4	12	16		15:30			125	51	176	
03:45			5	16	12	56	15:45			133	436	63	203
					17	72						196	639
04:00			5	15	20		16:00			144	45	189	
04:15			9	24	33		16:15			131	51	182	
04:30			9	25	34		16:30			152	38	190	
04:45			7	30	16	80	16:45			154	581	50	184
					23	110						204	765
05:00			5	27	32		17:00			174	38	212	
05:15			4	33	37		17:15			121	46	167	
05:30			14	41	55		17:30			145	47	192	
05:45			12	35	49	150	17:45			129	569	22	153
					61	185						151	722
06:00			8	54	62		18:00			112	39	151	
06:15			17	57	74		18:15			110	38	148	
06:30			31	93	124		18:30			87	31	118	
06:45			78	134	68	272	18:45			70	379	36	144
					146	406						106	523
07:00			55	78	133		19:00			50	24	74	
07:15			17	136	153		19:15			68	35	103	
07:30			31	108	139		19:30			42	24	66	
07:45			42	145	96	418	19:45			29	189	31	114
					138	563						60	303
08:00			30	66	96		20:00			48	40	88	
08:15			21	62	83		20:15			44	28	72	
08:30			29	56	85		20:30			37	27	64	
08:45			38	118	39	223	20:45			34	163	21	116
					77	341						55	279
09:00			39	25	64		21:00			29	16	45	
09:15			42	30	72		21:15			33	30	63	
09:30			31	31	62		21:30			30	26	56	
09:45			36	148	34	120	21:45			22	114	21	93
					70	268						43	207
10:00			38	39	77		22:00			25	27	52	
10:15			46	28	74		22:15			12	28	40	
10:30			41	33	74		22:30			21	24	45	
10:45			44	169	27	127	22:45			24	82	29	108
					71	296						53	190
11:00			39	32	71		23:00			14	37	51	
11:15			32	42	74		23:15			17	43	60	
11:30			42	37	79		23:30			9	29	38	
11:45			35	148	34	145	23:45			18	58	18	127
					69	293						36	185
TOTALS			1034	1842	2876		TOTALS			3267	1836	5103	
SPLIT %			36.0%	64.0%	36.0%		SPLIT %			64.0%	36.0%	64.0%	

DAILY TOTALS					NB	SB						EB	WB						Total
					0	0						4,301	3,678						7,979
AM Peak Hour			06:15	07:00	06:45		PM Peak Hour			16:15	14:00	16:15							
AM Pk Volume			181	418	571		PM Pk Volume			611	225	788							
Pk Hr Factor			0.580	0.768	0.933		Pk Hr Factor			0.878	0.893	0.929							
7 - 9 Volume	0	0	263	641	904		4 - 6 Volume	0	0	1150	337	1487							
7 - 9 Peak Hour			07:00	07:00	07:00		4 - 6 Peak Hour			16:15	16:00	16:15							
7 - 9 Pk Volume	0	0	145	418	563		4 - 6 Pk Volume	0	0	611	184	788							
Pk Hr Factor	0.000	0.000	0.659	0.768	0.920		Pk Hr Factor	0.000	0.000	0.878	0.902	0.929							



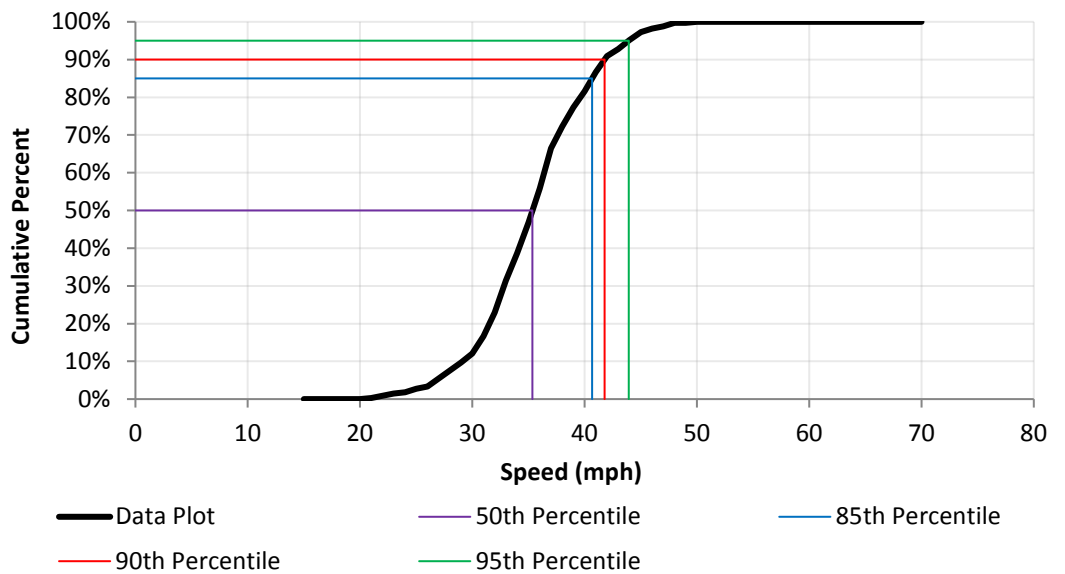
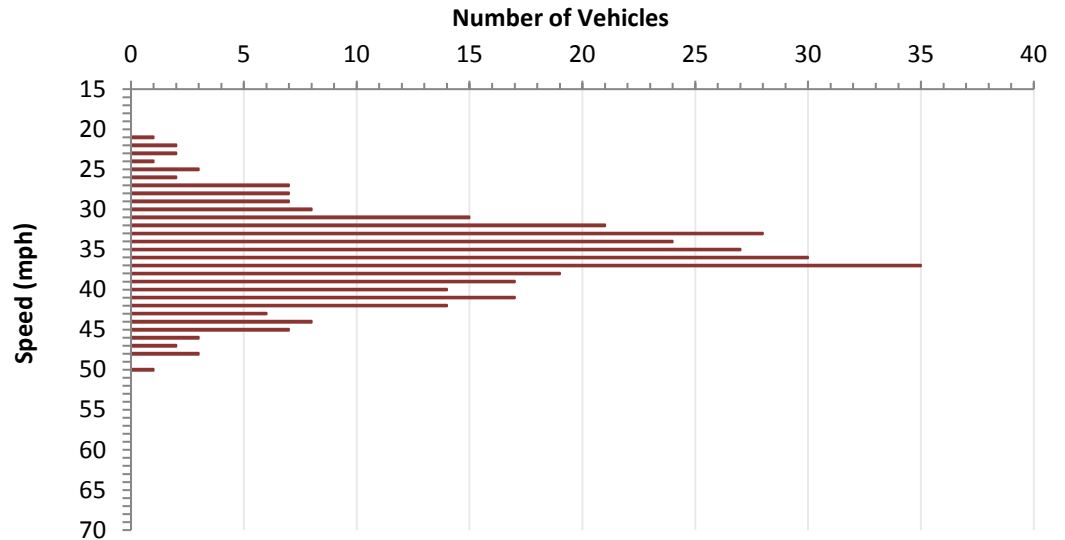
RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Willow Rd	From:	State Route 67	To:	Wildcat Canyon Rd
Position:	200' W/o Moreno Ave	Direction:	EB/WB		

Date:	12/10/2018	Weather:	Clear	Project Number:	18-4457-007
Time Start:	11:05 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	1:05 PM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21	1	0.3%
22	2	0.9%
23	2	1.5%
24	1	1.8%
25	3	2.7%
26	2	3.3%
27	7	5.4%
28	7	7.6%
29	7	9.7%
30	8	12.1%
31	15	16.6%
32	21	23.0%
33	28	31.4%
34	24	38.7%
35	27	46.8%
36	30	55.9%
37	35	66.5%
38	19	72.2%
39	17	77.3%
40	14	81.6%
41	17	86.7%
42	14	90.9%
43	6	92.7%
44	8	95.2%
45	7	97.3%
46	3	98.2%
47	2	98.8%
48	3	99.7%
49		
50	1	100.0%
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	331	



DATA ANALYSIS

Average Speed	35.9	Range	21 - 50
50th Percentile	35.4	10 mph Pace	32 - 41
85th Percentile	40.7	Number in Pace	232
90th Percentile	41.8	Percent in Pace	70%
95th Percentile	43.9		
Total	331		

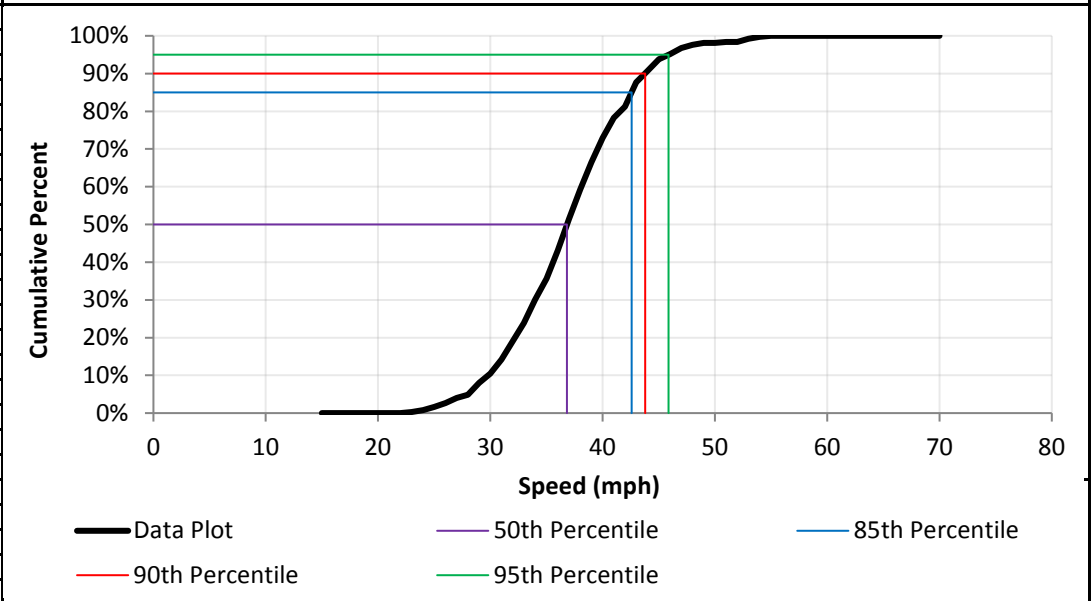
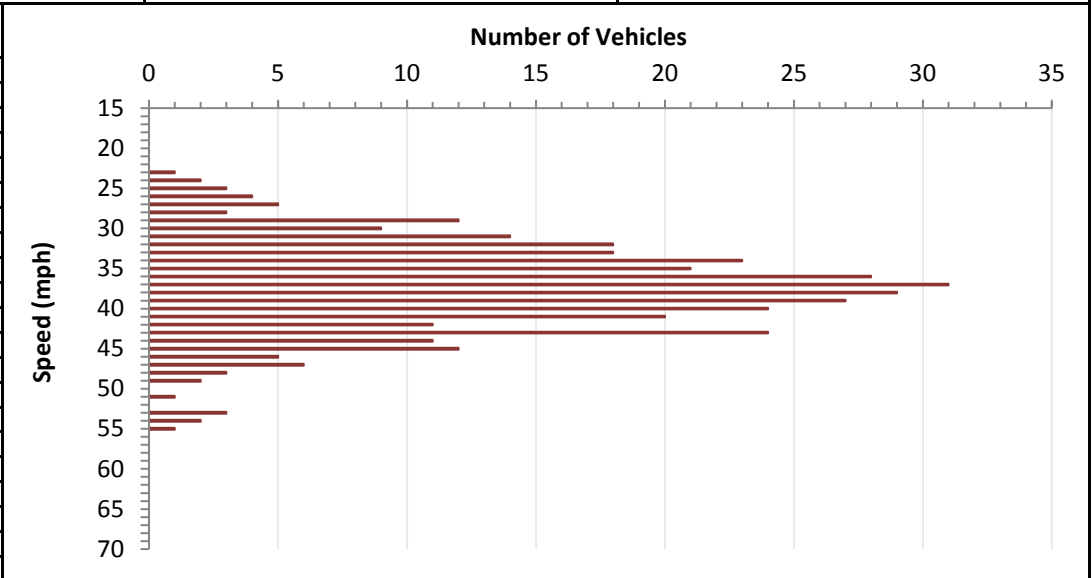


RADAR SPEED SURVEY

SAN DIEGO COUNTY DEPT OF PUBLIC WORKS

Road Name:	Willow Rd	From:	State Route 67	To:	Wildcat Canyon Rd
Position:	200' E/o Fillbrook Dr	Direction:	EB/WB		
Date:	12/10/2018	Weather:	Clear	Project Number:	18-4457-008
Time Start:	9:00 AM	Road Condition:	Dry	Observer:	Contractor
Time End:	11:00 AM	Posted Speed:	35 MPH	Calibration Test:	Y

Speed (mph)	Num. Veh.	Cum. Pct.
15		
16		
17		
18		
19		
20		
21		
22		
23	1	0.3%
24	2	0.8%
25	3	1.6%
26	4	2.7%
27	5	4.0%
28	3	4.8%
29	12	8.0%
30	9	10.5%
31	14	14.2%
32	18	19.0%
33	18	23.9%
34	23	30.0%
35	21	35.7%
36	28	43.2%
37	31	51.5%
38	29	59.2%
39	27	66.5%
40	24	72.9%
41	20	78.3%
42	11	81.2%
43	24	87.7%
44	11	90.6%
45	12	93.8%
46	5	95.2%
47	6	96.8%
48	3	97.6%
49	2	98.1%
50		
51	1	98.4%
52		
53	3	99.2%
54	2	99.7%
55	1	100.0%
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
Total	373	



DATA ANALYSIS

Average Speed	37.4	Range	23 - 55
50th Percentile	36.8	10 mph Pace	32 - 41
85th Percentile	42.6	Number in Pace	239
90th Percentile	43.8	Percent in Pace	64%
95th Percentile	45.9		