

2022 Koldin Lane Traffic Study

April 19th, 2022

Kevin Reaves, Chief of Police

2016 Koldin Lane Traffic Study

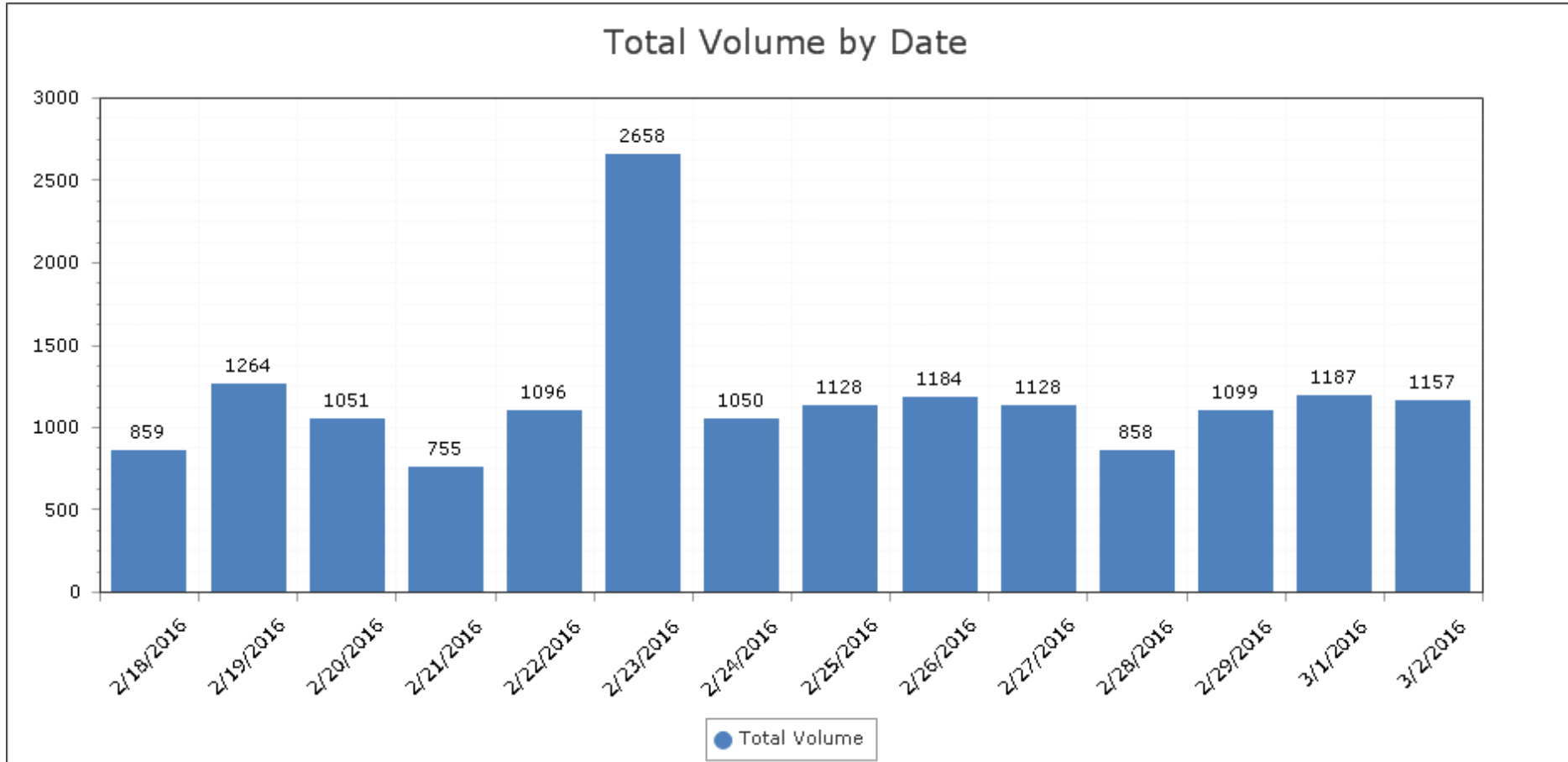
In 2016 Koldin Lane was a residential street with a 20 MPH speed limit which was contrary to the 30 MPH speed limit established by the Texas State Statutes for residential speed limits in a General Law city.

- In February of 2016, the speed humps were removed from Koldin Lane due to complaints by a resident of vehicles driving into yards to avoid the speed bumps.
- Since the removal of the speed humps, there have been several complaints of speeding motorists on Koldin Lane.

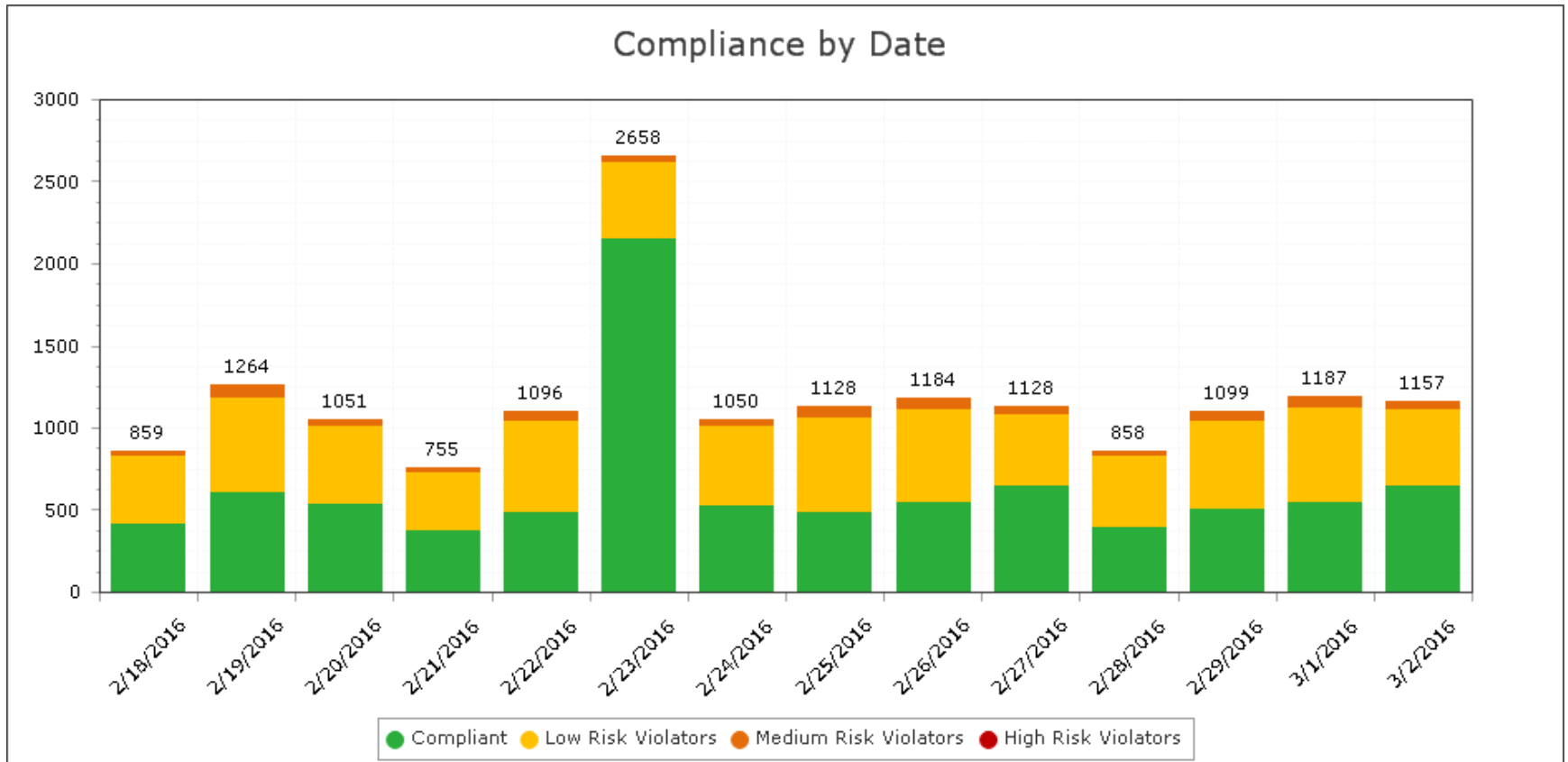
2016 Koldin Lane Traffic Study

- The initial traffic study was conducted at the 100 block of Koldin Lane.
- Survey was conducted from on 2-18-16 and remained there thru 3-23-16.
- The trailer remained in place for two weeks to monitor the traffic patterns during the week as compared to the weekend.

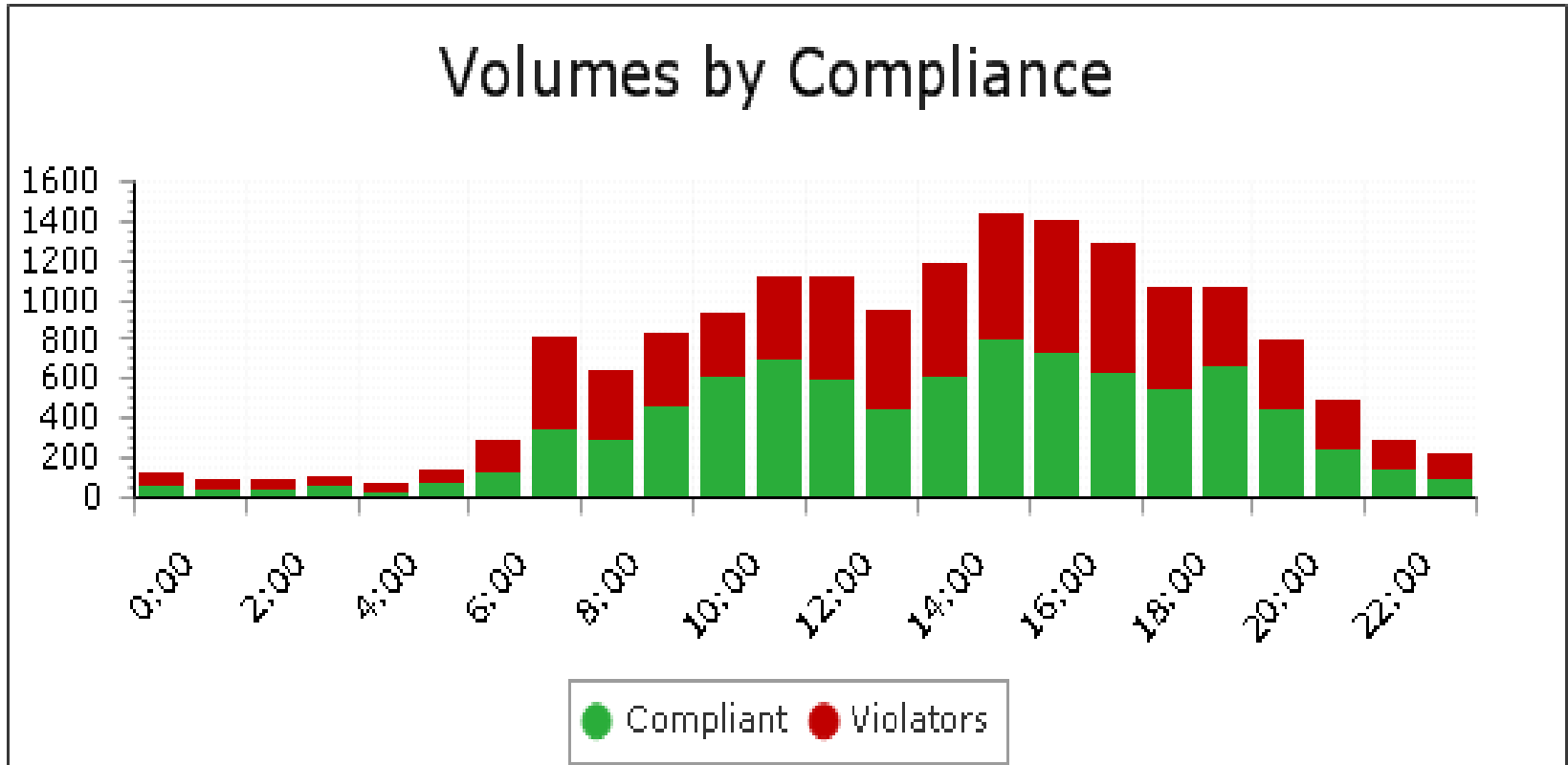
2016 Koldin Lane Traffic Study



2016 Koldin Lane Traffic Study



2016 Koldin Lane Traffic Study



2016 Koldin Lane Traffic Summary

Overall Summary

Total Days of Data	14
Speed Limit(s)	20
Average Speed	18.92
50th Percentile Speed	18.23
85th Percentile Speed	22.79
Pace speed range	19 to 28
Maximum Speed	58
Minimum Speed	5
Display Status?	Displaying Speed Feedback
Average Volume per Day	1,233
Total Volume	16,479

2016 Koldin Lane Traffic Findings

- 16, 474 vehicles traveled on Koldin Lane during the survey period
- 8,992 vehicles traveling on Koldin Lane were at 20 MPH or below.
- 5,085 vehicles were traveling between 20 and 25 MPH
- 1,869 vehicles were traveling between 26 MPH and 30 MPH
- Upon evaluating the data from the study, we were able to determine there were **548** out of 16,474 vehicles using Koldin Lane traveling over 30 MPH.

2016 Koldin Lane Traffic Recommendations

- The goal of the Westworth Village Police Department during this study was to educate the residents of Koldin Lane as well as the drivers in the actual speeds of cars upon the roadway using the visual display of speed on the SMART trailer.
- Upon conducting a compliance and risk analysis of Koldin Lane, it was determined the majority of vehicles utilizing Koldin Lane would be within compliance of the speed limit if it was posted at 30 MPH.
- The traffic study determined the 85th percentile for Koldin Lane to be **22.79 MPH** in a posted **20 MPH** speed zone.
- Based upon the information gathered from this survey, the Police Departments recommendation was to set the speed limit on Koldin Lane at 25 MPH which was close to the 85th percentile.

Results of the 2016 Traffic Study

City Council was presented with four options to address the concerns of the residents on Koldin Lane.

- The City council acted in March 2016 to address the issue.
- The speed Limit on Koldin Lane was raised by ordinance to 25 MPH after the 2016 traffic study.

2019 Koldin Lane Traffic Study

- The Second traffic study was conducted at the 100 block of Koldin Lane.
- Survey was conducted from 6/10/2019 thru 6/24/19.
- The trailer remained in place for over two weeks to monitor the traffic patterns during the week as compared to the weekend.

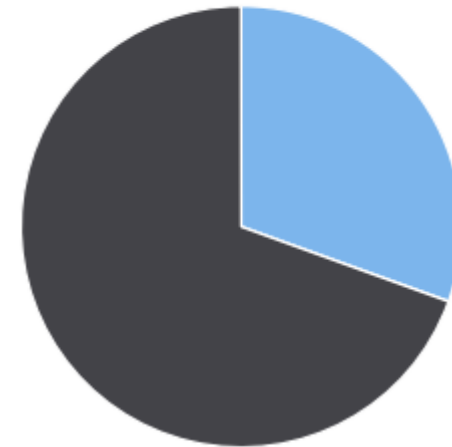
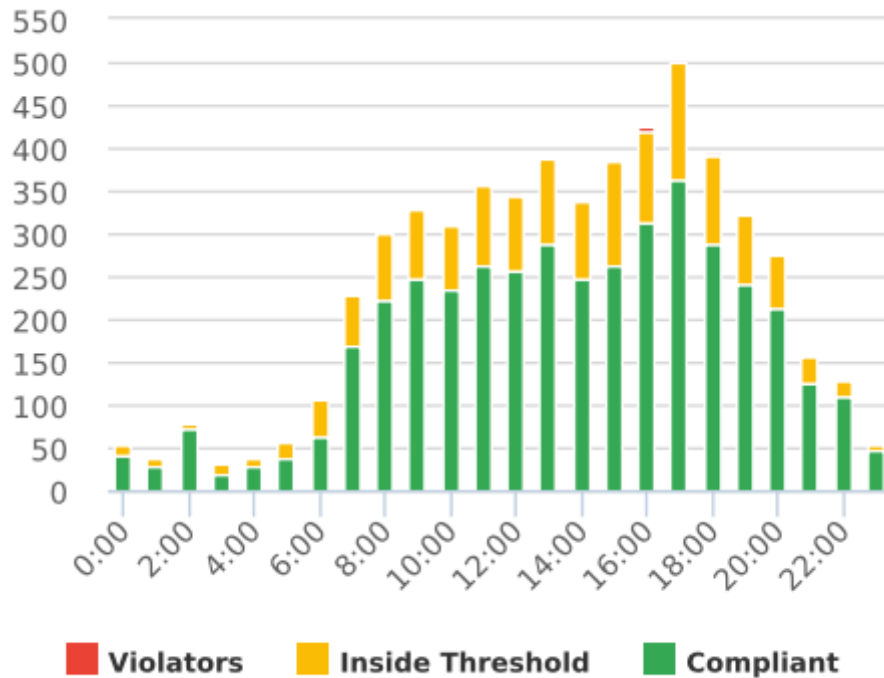
2019 Koldin Lane Traffic Study

- Drivers often uses Koldin Lane to gain easy access Tanny St. which is also used as a cut through to Roaring Springs Road and I-30. This route allows drivers to avoid delays at the traffic lights on SH-183-Westworth Blvd.

2019 Koldin Lane Traffic Data

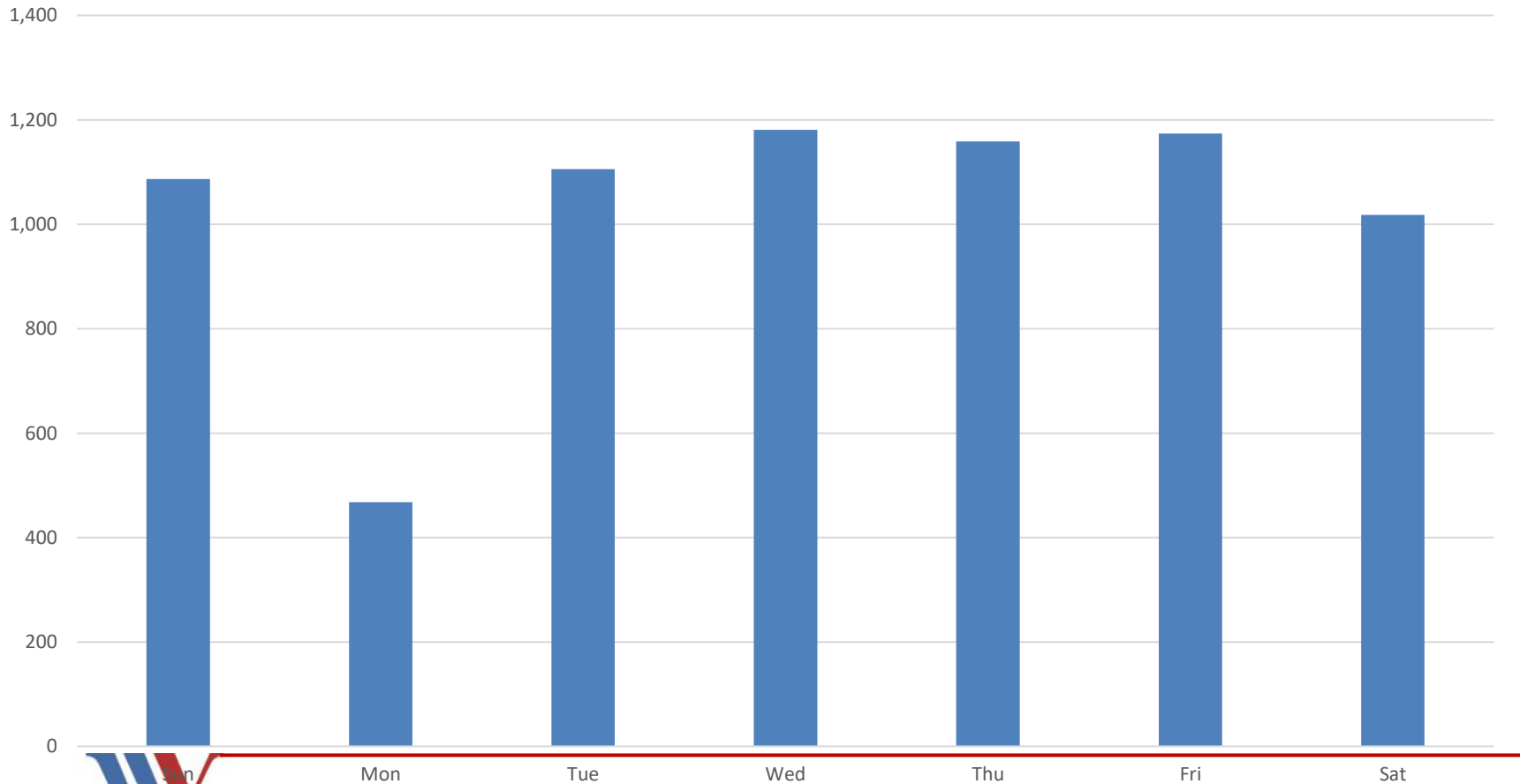
- Survey was conducted over 14-day period.
- Daily traffic count averaged **981.6** cars per day.
- Average speed was 22.29 MPH
- 85th percentile was 26.42 MPH
- Maximum Speed was 48 MPH

2019 Koldin Lane Traffic Data



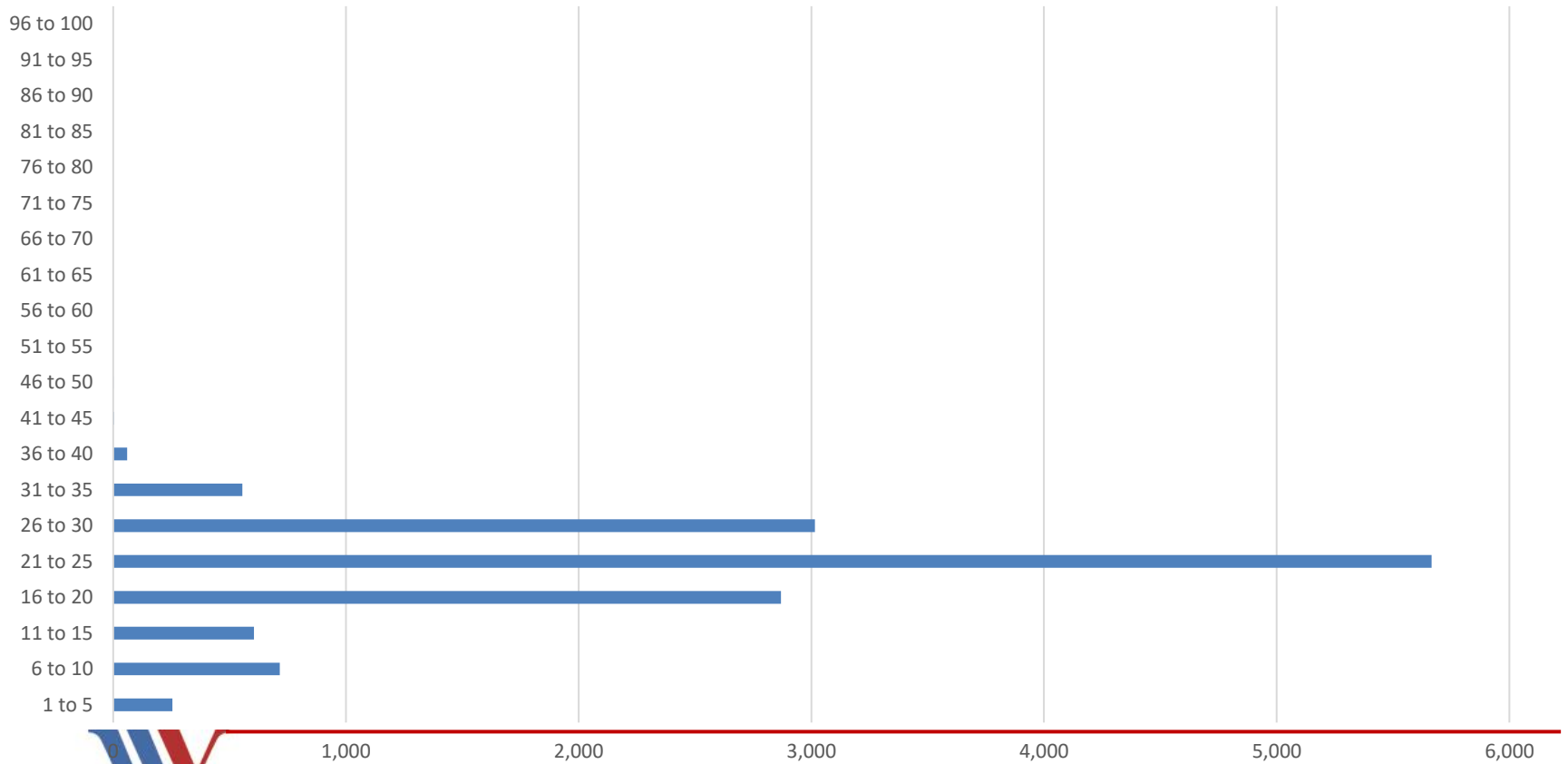
2019 Koldin Lane Traffic Data

Average Volume by Day of Week



2019 Koldin Lane Traffic Data

Chart Title



2019 Koldin Lane Traffic Data

- **13,743** vehicles traveled on Koldin Lane during the survey period
- **10,021** vehicles traveling on Koldin Lane were at 25 MPH or below.
- **3,015** vehicles were traveling between 25 and 30 MPH
- **554** vehicles were traveling between 31 MPH and 35 MPH
- **63** vehicles were traveling in excess of 35 MPH.
- Upon evaluating the data from the study, we were able to determine there were **3,659** vehicles using Koldin Lane traveling over 25 MPH but under 36 MPH.

2019 Koldin Lane Traffic Study Findings

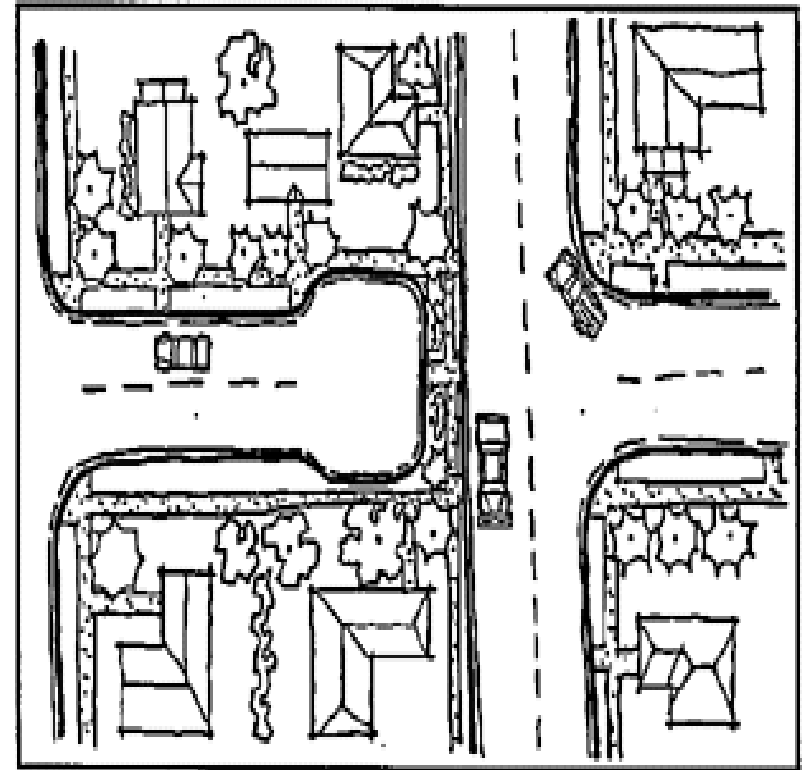
- Sunday and Friday there were **7** violators in excess of 10 MPH over the posted speed limit
- Tuesday thru Friday there were **6** violators per day in excess 10 MPH over the posted speed limit.
- The time of the speed violations were between 0700- 1800 hrs.

2019 Koldin Lane Traffic Study Findings

- The number of vehicles using Koldin Lane decreased by **2,763** from the 2016 study.
- The daily traffic count decreased by 251 vehicles per day.
- The number of vehicles traveling 10 MPH over the posted speed limit has decreased from **548** to **63** since the 2016 traffic study.

2019 Koldin Lane Traffic Study

A full street closure of Koldin Lane would work best, if the roadway was closed at the City's Public Works building property line. This would eliminate all access to or from Westworth Blvd and the residents would have to use White Settlement as the access point for the roadway.



**Figure 14 – Full Street Closure
at Intersection**

2019 Koldin Lane Traffic Study

Option #2

A possible long term solution, is a full or partial closure of Koldin Lane, which would eliminate the speeding issue on the roadway. These solutions may create access challenges depending if the road closure is mid-block or a one ended closure at Westworth Blvd(SH-183).

A mid-block closure would require two cul-de sacs to be created to provide for emergency vehicle turn around points due to the length of the roadway.

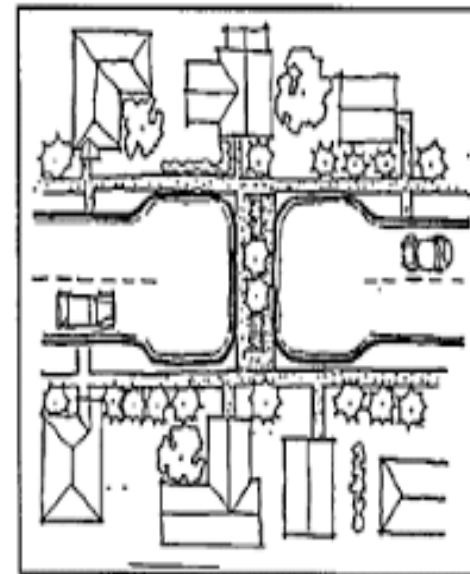


Figure 13 – Full Street Closure at Mid-Block

2019 Koldin Lane Traffic Study

Option #3

- Reinstall the speed humps mid-block on Koldin Lane. Provide adequate signage for the speed humps.



2019 Koldin Lane Traffic Study



- **Option #4**
- Chicane – Narrows the roadway midblock to reduce speed.
- Can be used in more than one location on a longer section of roadway.

2019 Koldin Lane Traffic Study



2019 Koldin Lane Traffic Study

- Every option presented had positive aspects as well as negative aspects and impacts upon the community.
- There were several options presented which could be implemented together such as speed humps and electronic speed limit signs.
- Electronic speed limit signs and a chicane or choker to slow traffic down.

Results of the 2019 Traffic Study

City Council was presented with multiple options to address the concerns of the residents on Koldin Lane.

- The City council acted in 2019 to address the issue by installing electronic speed signs on Koldin Lane.

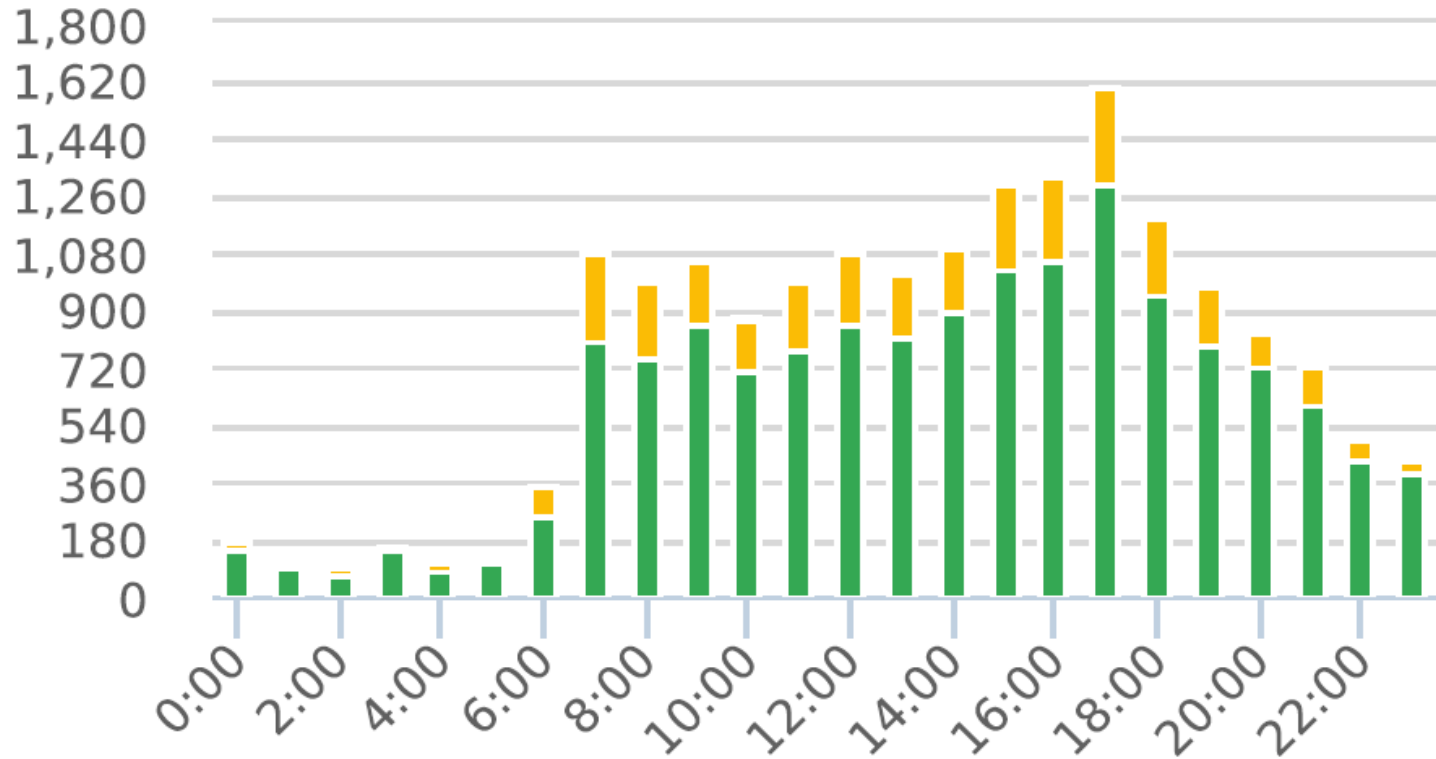
April 2022 Koldin Lane Traffic Study

- Survey was conducted over a 15-day period.
- Daily traffic count averaged **1209** cars per day.
- Average speed was **21.06** MPH.
- 85th Percentile speed was **25.71** MPH.
- Maximum speed was **46** MPH.
- Traffic volume was **18,135** vehicles.

April 2022 Koldin Lane Traffic Data

Time	1 to 5	6 to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 60	61 to 65	#	
0:00		3	26	3	40	76	21	4	0	1	0	0	0	0	174
1:00		0	8	9	22	50	12	1	0	0	0	0	0	0	102
2:00		0	9	5	30	23	15	5	0	0	0	0	0	0	87
3:00		0	96	3	23	25	16	3	0	0	0	0	0	0	166
4:00		0	4	5	20	50	23	6	2	0	0	0	0	0	110
5:00		1	1	2	30	67	21	1	0	0	0	0	0	0	123
6:00		0	5	13	77	159	82	5	0	0	0	0	0	0	341
7:00		3	43	45	193	510	236	44	3	0	0	0	0	0	1077
8:00		0	29	31	220	461	206	41	3	0	0	0	0	0	991
9:00		11	116	67	249	414	168	27	2	0	0	0	0	0	1054
10:00		4	84	58	189	367	148	23	2	0	0	0	0	0	875
11:00		1	41	51	232	455	182	20	5	0	0	0	0	0	987
12:00		2	31	53	259	515	188	27	2	0	0	0	0	0	1077
13:00		0	41	49	274	445	175	24	0	0	0	0	0	0	1008
14:00		1	18	38	264	572	183	24	2	1	0	0	0	0	1103
15:00		3	147	43	278	557	229	36	2	0	0	0	0	0	1295
16:00		2	64	46	303	634	248	26	5	1	0	0	0	0	1329
17:00		1	200	70	352	676	271	25	3	1	0	0	0	0	1599
18:00		1	104	45	242	556	213	31	3	1	1	0	0	0	1197
19:00		1	96	46	215	428	175	14	0	1	0	0	0	0	976
20:00		0	86	33	232	371	96	12	1	0	0	0	0	0	831
21:00		22	93	31	162	296	100	10	0	0	0	0	0	0	714
22:00		62	89	10	103	167	50	6	0	0	1	0	0	0	488
23:00		35	142	14	66	134	34	5	1	0	0	0	0	0	431
Total		153	1573	770	4075	8008	3092	420	36	6	2	0	0	0	
		153	1573	770	4075	8008	3092	420	36	6	2	18135			18135

2022 Koldin Lane Traffic Study



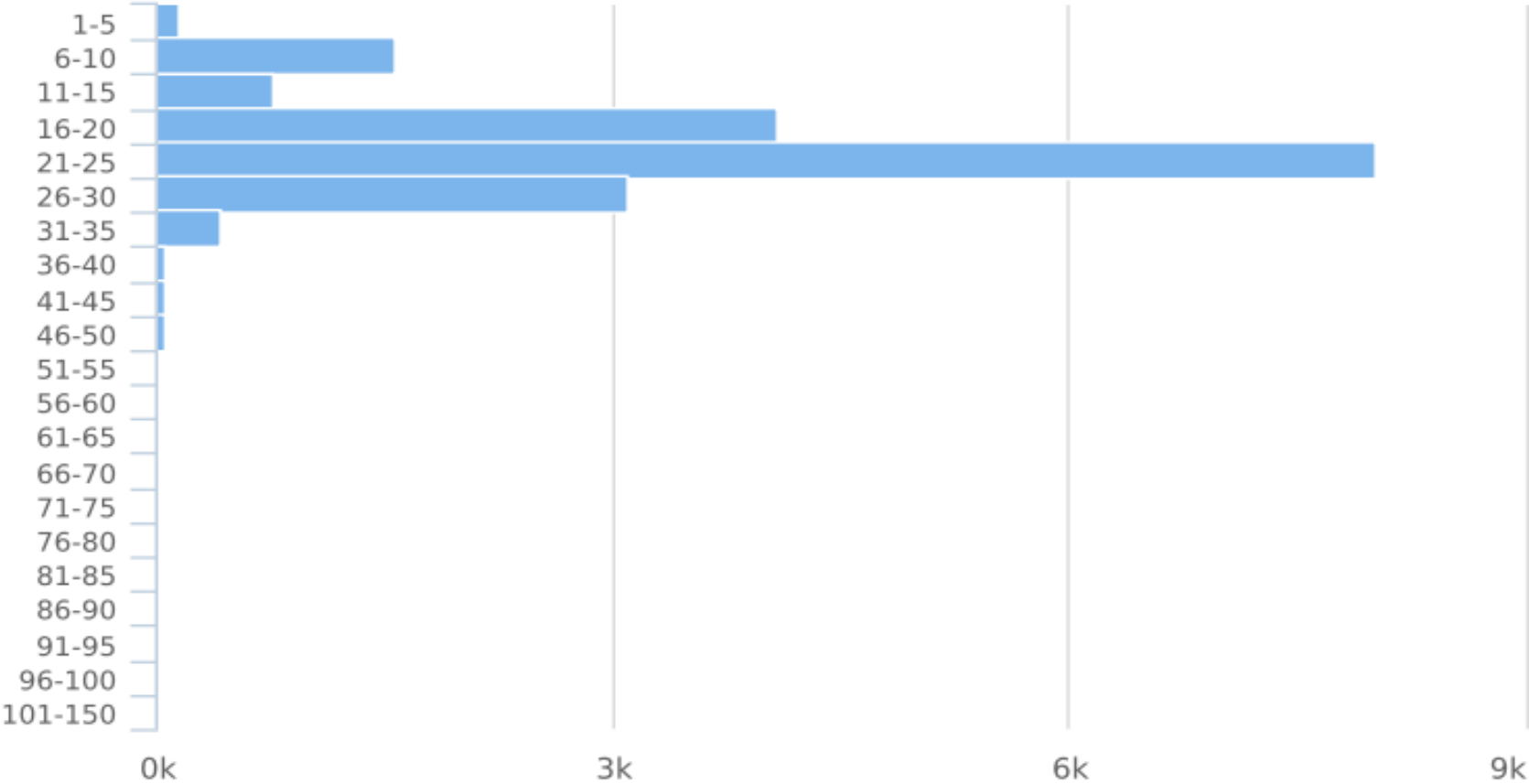
Violators

Inside Threshold

Compliant

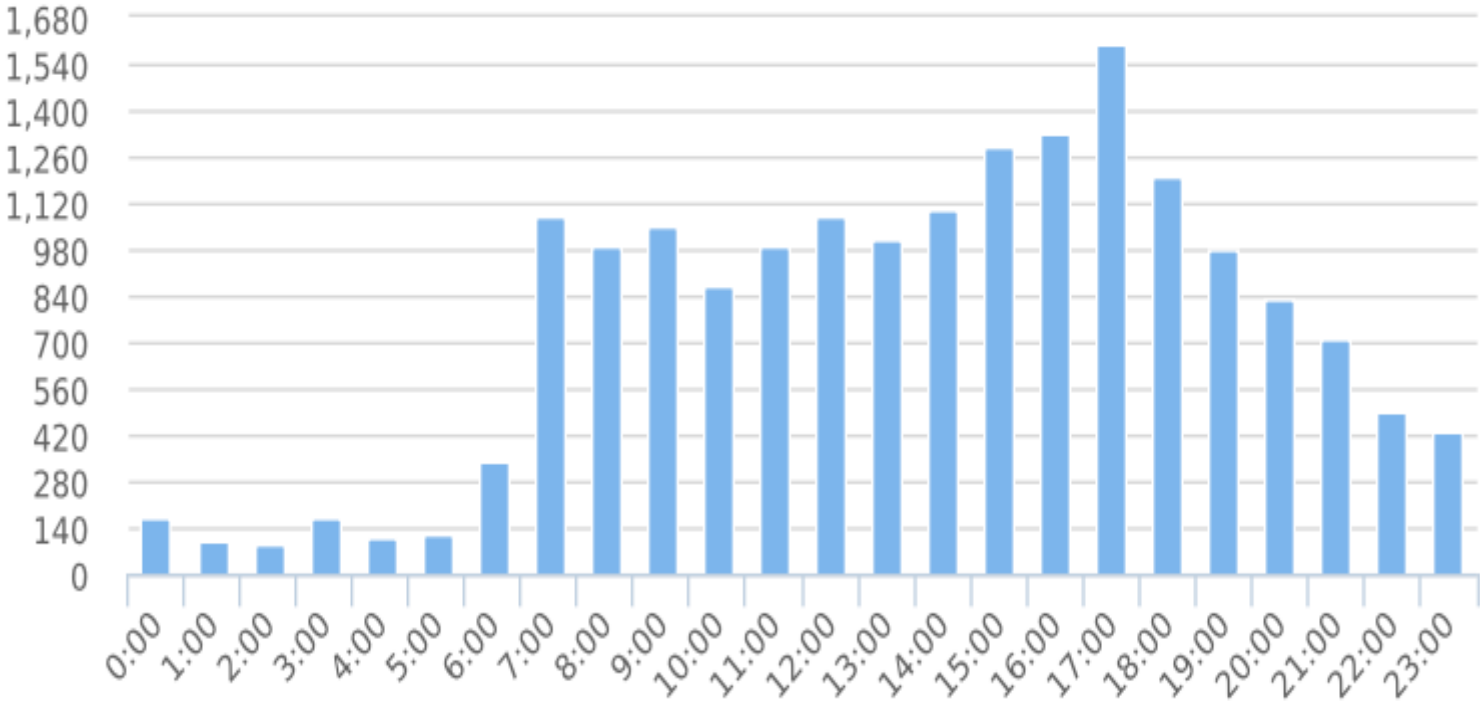
April 2022 Koldin Lane Traffic Data

Total Volume by Speed Distribution



April 2022 Koldin Lane Traffic Data

Volume over Time



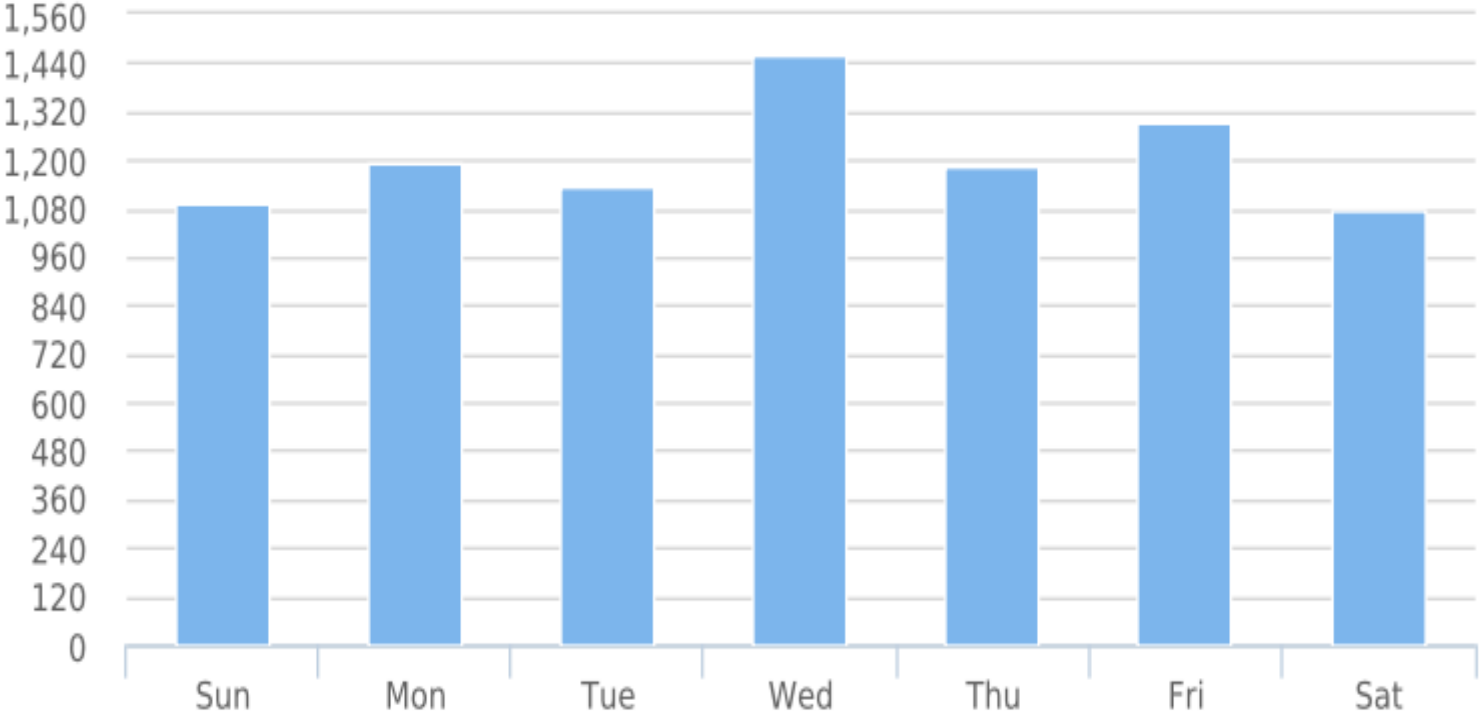
Westworth Village

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POLICE

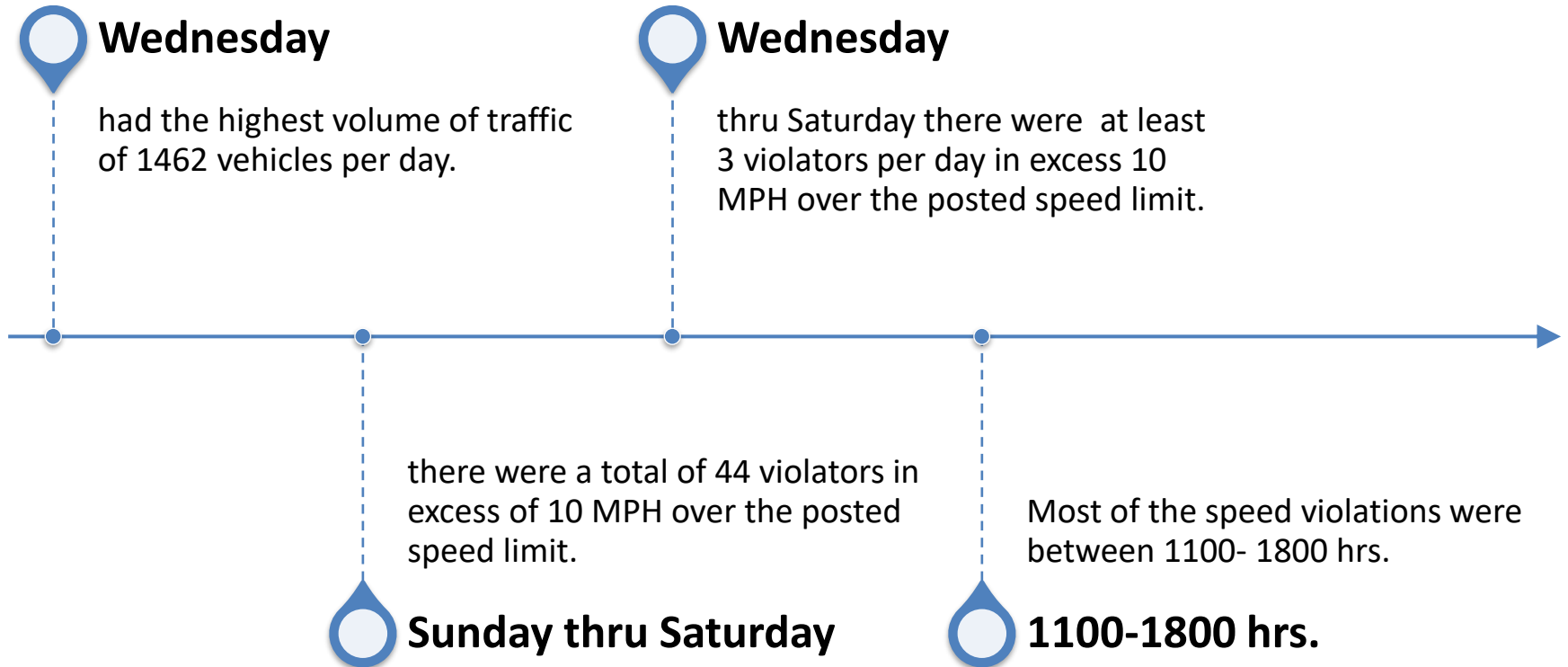
April 2022 Koldin Lane Traffic Data

Avg Volume by Day of Week



Date	1 to 5	6 to 10	11 to 15	16 to 20	21 to 25	26 to 30	31 to 35	36 to 40	41 to 45	46 to 50	51 to 55	56 to 60	61 to 65	66 to 70	71 to 75	76 to 80	81 to 85	86 to 90	91 to 95	96 to 100	101 to 150	Avg Speed	Total
04-01	18	154	58	324	585	205	27	2	0	0	0	0	0	0	0	0	0	0	0	0	0	20.4	1373
04-02	4	56	51	264	535	176	36	3	1	0	0	0	0	0	0	0	0	0	0	0	0	21.9	1126
04-03	3	214	57	255	485	175	21	3	0	0	0	0	0	0	0	0	0	0	0	0	0	19.6	1213
04-04	102	140	50	266	541	220	25	2	0	0	0	0	0	0	0	0	0	0	0	0	0	19.6	1346
04-05	3	20	44	261	578	232	36	2	0	0	0	0	0	0	0	0	0	0	0	0	0	22.6	1176
04-06	3	365	59	258	558	221	40	3	0	0	0	0	0	0	0	0	0	0	0	0	0	18.9	1507
04-07	3	30	40	276	578	225	24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	22.3	1177
04-08	1	145	66	270	583	236	34	2	0	0	0	0	0	0	0	0	0	0	0	0	0	21.0	1337
04-09	2	44	37	258	468	190	20	3	3	2	0	0	0	0	0	0	0	0	0	0	0	22.1	1027
04-10	3	38	38	225	461	174	22	2	1	0	0	0	0	0	0	0	0	0	0	0	0	22.0	964
04-11	1	36	44	242	496	192	31	2	0	0	0	0	0	0	0	0	0	0	0	0	0	22.2	1044
04-12	1	23	54	283	509	206	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.0	1092
04-13	4	233	70	297	558	226	26	2	0	0	0	0	0	0	0	0	0	0	0	0	0	19.8	1416
04-14	3	39	52	290	533	220	35	6	1	0	0	0	0	0	0	0	0	0	0	0	0	22.2	1179
04-15	2	36	50	306	540	194	27	3	0	0	0	0	0	0	0	0	0	0	0	0	0	21.9	1158
Total	153	1573	770	4075	8008	3092	420	36	6	2	0	0	0	0	0	0	0	0	0	0	0	21.1	18135

April 2022 Koldin Lane Traffic Study



April 2022 Koldin Lane Traffic Study Findings

- The number of daily vehicles using Koldin Lane increased from the 2019 study.
- The daily traffic count increased by 221 vehicles per day from 2019 Traffic Study.
- The number of vehicles traveling in excess of 10 MPH over the posted speed limit has decreased from **548** to **44** since the 2016 traffic study.

April 2022 Koldin Lane Traffic Study Findings

- The number of vehicles traveling at or below the posted 25 MPH Speed limit was **14,579**.
- The number of vehicles traveling 25 to 30 MPH was **3,092**.
- Number of violators traveling over 10 MPH over the speed limit was **44** which is **.2 %** of the total number vehicles which utilize Koldin Lane.

April 2022 Koldin Lane Traffic Study

- The City council can elect to implement additional traffic calming measures on Koldin Lane which were proposed in 2019 such as:
 - Speed Humps
 - Choker placed mid-block on Koldin Lane

April 2022 Koldin Lane Traffic Study Recommendations

The Westworth Village Police Department will continue to monitor the traffic conduction as well as conduct assigned enforcement during the peak traffic times identified by during the traffic studies.

The City should wait on a closure of Koldin Lane until the SH-183 improvement project is finalized to determine if a closure of Koldin Lane is feasible.