

7/31/13

West Fifth Ave speeds were studied between Olentangy River Road and High Street.

- Posted speed limit is 25 MPH (temporary from Spring Sandusky Interchange (SSI) traffic management project)
- The segment studied is 1.06 miles long
- 11,914 vehicles counted in 24 hours
- The 85th percentile speed was 34.57 MPH
- The calculated speed is 34 MPH
- The recommended speed limit is 35 MPH; an increase of 10 MPH from the existing posted speed limit, but the same as prior to the SSI construction.

This is an urban area with mixed land use including residential, small commercial/retail and headquarters for Battelle (large office) on the western end of the study area. This portion of West Fifth Ave is classified on the Columbus Thoroughfare Plan as a 4-2D arterial. The study indicates that the posted speed limit should be 35 mph.



Location of Speed Study

400 200 0 400 Feet

- UNNAMED AVE
- EUCUID AVE
- UNNAMED AVE
- E 7TH AVE
- COURTLAND AVE
- E 5TH AVE
- N HIGH ST
- N WALL ST
- W GREENWOOD AVE
- W 4TH AVE
- W 3RD AVE
- ASTON ROW LN
- W STARR AVE
- PRICE AVE
- KLEINER AVE
- W 2ND AVE
- DENNISON AVE
- APOLLO PL
- W 1ST AVE
- HUNTER AVE
- HUNTER AVE
- HIGHLAND ST
- HIGHLAND ST
- HIGHLAND ST
- NEIL AVE
- DELAWARE AVE
- TAPPAN ST
- W 9TH AVE
- W 8TH AVE
- W 8TH AVE
- WORTHINGTON ST
- W 5TH AVE
- FORSYTHE AVE
- W 7TH AVE
- W 6TH AVE
- W 6TH AVE
- HARRISON AVE
- PENNSYLVANIA AVE
- W 3RD AVE
- W 1ST AVE
- MICHIGAN AVE
- MICHIGAN AVE
- HARRISON AVE
- W 4TH AVE
- MICHIGAN AVE
- MICHIGAN AVE
- TAPPAW AVE
- VERMONT PL
- W 4TH AVE
- HILL AVE
- BRADLEY ST
- HARRISON PARK PL
- OREGON AVE
- PERRY ST
- PERRY ST
- BRADLEY ST
- RYDER AVE
- BELLE BLVD
- BELMONT AVE
- PERRY ST
- DODD DR
- MEDICAL CENTER DR
- CANNON DR
- OLENTANGY RIVER RD



Ohio Department of Transportation SPEED ZONE WARRANT SHEET



Rev. 4/8/11 (Editorial) EW

Complete all Green Shaded areas.		Road No.	Date:
Road Name:	Fifth Ave		7/30/2013
County:	Franklin	Township/City/Village	Columbus
Begin Study At:	Olentangy River Road	End Study At:	High St
Length:	1.06 miles	ODOT SLM:	ODOT SLM:
		Average Daily Traffic (ADT):	11914
		Existing Speed Limit	25(temp)

For further guidance in completing this form, see the Traffic Engineering Manual, section 1203.

No. of Houses or Farms	2	(Hold Cursor Here for More Info)	Must have direct access to the roadway being studied.
No. of Small Businesses, Apts./Condos	1	(Hold Cursor Here for More Info)	Must have direct access to the roadway being studied.
No. of Medium Businesses, Apts./Condos	3	(Hold Cursor Here for More Info)	Must have direct access to the roadway being studied.
No. of Major Businesses, Apts./Condos	2	(Hold Cursor Here for More Info)	Must have direct access to the roadway being studied.
No. of Minor Street Intersections	13	(Hold Cursor Here for More Info)	Subdivision, Residential, or Other streets that mainly serve the residents of that street.
No. of Major Street Intersections	0	(Hold Cursor Here for More Info)	Streets which serve both the residents and commuters of the area.
No. of Signalized Intersections	5	(Hold Cursor Here for More Info)	Do not include intersections at the beginning or end of the section.
Lane Width	10	(Round down to nearest foot)	Average lane width of through traffic lanes.
Shoulder Width	1	(Round down to nearest foot)	General width of paved and/or non-paved shoulder throughout the section.
Crashes	43	(Latest three years of data)	Only include crashes within the section, excluding animal and side street crashes.
85thtile Speed of Traffic	34.57		Average of the 85% speed at all locations where speed samples were taken.
10-mph Pace Speed of Traffic	25	to	Average of the Pace speed at all locations where speed samples were taken.
Roadway Characteristics	B3	(Enter letter and number or use Drop Down Box)	Hold cursor over alphabetic value below to view description then enter letter and number.

Roadway Characteristics Examples			
	B3	B2	B1
To View Calculation Sheet or Examples of Characteristics and Crashes to Include, use Buttons to Right.	Calculation Sheet	Characteristics	Crashes to Include

Calculated Speed	34 MPH
Requested Speed Limit	35 MPH
Approved Speed Limit	MPH

Test Runs*

* Completed by ODOT for comparison or verification of calculated speed.

Study by: Jodi Cooley

Include the related Resolution(s) when submitting this form.

Additional considerations and comments:

Two pedestrian crashes in 3 years, 0 bike crashes (2010-2012). One uncontrolled crosswalk on segment. Use B3 characteristics for the urban environment.

**Nu-Metrics Traffic Analyzer Study
 Computer Generated Summary Report
 City: COLUMBUS
 Street: FIFTH AVE BET NEIL AVE & HIGH ST**

A study of vehicle traffic was conducted with HI-STAR unit number 5685. The study was done in the BI-DIR lane at FIFTH AVE BET NEIL AVE & HIGH ST in COLUMBUS, OH in FRANKLIN county. The study began on Apr/03/13 at 11:00 and concluded on Apr/04/13 at 11:00, lasting a total of 24.00 hours. Traffic statistics were recorded in 15 minute time periods. The total recorded volume showed 11914 vehicles passed through the location with a peak volume of 285 on Apr/03/13 at [17:15-17:30] and a minimum volume of 4 on Apr/04/13 at [04:30-04:45]. The AADT count for this study was 11,914.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin. At least half the vehicles were traveling in the 25 - 30 MPH range or lower. The average speed for all classified vehicles was 30 MPH with 43.39% vehicles exceeding the posted speed of 25 MPH. The HI-STAR found 0.21 percent of the total vehicles were traveling in excess of 55 MPH. The mode speed for this traffic study was 25MPH and the 85th percentile was 34.57 MPH.

< to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to >					
8	48	266	1496	4876	3675	987	262	102	57	23	18	7	0	0					

CHART 1

CLASSIFICATION

Chart 2 lists the values of the classification bins and the total traffic volume accumulated for each bin. Most of the vehicles classified during the study were Vans & Pickups. The number of Passenger Vehicles in the study was 0 which represents 0 percent of the total classified vehicles. The number of Vans & Pickups in the study was 11191 which represents 95 percent of the total classified vehicles. The number of Busses & Trucks in the study was 0 which represents 0 percent of the total classified vehicles. The number of Tractor Trailers in the study was 634 which represents 0 percent of the total classified vehicles.

< to 21	22 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 139	140 to >												
11191	546	61	17	7	1	2	0												

CHART 2

HEADWAY

During the peak traffic period, on Apr/03/13 at [17:15-17:30] the average headway between vehicles was 3.147 seconds. During the slowest traffic period, on Apr/04/13 at [04:30-04:45] the average headway between vehicles was 180 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 35.00 and 85.00 degrees F.