

7/31/13

West Third 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 1.02 miles long
- 5,444 vehicles counted in 24 hours
- The 85th percentile speed was 31.75 MPH
- The calculated speed is 32 MPH
- The recommended speed limit is 30 MPH; an increase of 5 MPH from the existing posted temporary speed limit.

Third Avenue is mostly residential with some small retail. Additionally, on the eastern end of the study area is a small hospital and medical buildings. There are two uncontrolled crosswalks on the study segment. Third Avenue is a signed bike route and connects to the Olentangy Bikeway. This portion of West Third Ave is classified on the Columbus Thoroughfare Plan as a collector. The study indicates that the posted speed limit should be 30 mph.



Location of Speed Study

300 150 0 300 Feet



Ohio Department of Transportation SPEED ZONE WARRANT SHEET



Rev. 4/8/11 (Editorial) EW

Complete all Green Shaded areas.		Road No.	Date:
Road Name:	Third Ave		7/30/2013
County:	Franklin	Township/City/Village	Columbus
Begin Study At:	Olentangy River Rd	High	ODOT SLM:
Length:	1.02 miles	End Study At:	
		Existing Speed Limit	25 (temp)
		Average Daily Traffic (ADT):	5444

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

No. of Houses or Farms	(Hold Cursor Here for More Info)	5	Must have direct access to the roadway being studied.
No. of Small Businesses, Apts./Condos	(Hold Cursor Here for More Info)	3	Must have direct access to the roadway being studied.
No. of Medium Businesses, Apts./Condos	(Hold Cursor Here for More Info)	6	Must have direct access to the roadway being studied.
No. of Major Businesses, Apts./Condos	(Hold Cursor Here for More Info)	0	Must have direct access to the roadway being studied.
No. of Minor Street Intersections	(Hold Cursor Here for More Info)	20	Subdivision, Residential, or Other streets that mainly serve the residents of that street.
No. of Major Street Intersections	(Hold Cursor Here for More Info)	0	Streets which serve both the residents and commuters of the area.
No. of Signalized Intersections	(Hold Cursor Here for More Info)	2	Do not include intersections at the beginning or end of the section.
Lane Width	(Round down to nearest foot)	10	Average lane width of through traffic lanes.
Shoulder Width	(Round down to nearest foot)	0	General width of paved and/or non-paved shoulder throughout the section.
Crashes	(Latest three years of data)	6	Only include crashes within the section, excluding animal and side street crashes.
85%tile Speed of Traffic		31.75	Average of the 85% speed at all locations where speed samples were taken.
10-mph Pace Speed of Traffic	21 to	30	Average of the Pace speed at all locations where speed samples were taken.
Roadway Characteristics	(Enter letter and number or use Drop Down Box)	B3	Hold cursor over alphabetic value below to view description then enter letter and number.

Roadway Characteristics Examples	B3	B2	B1	A3	A2	A1
To View Calculation Sheet or Examples of Characteristics and Crashes to Include, use Buttons to Right.	Calculation Sheet	Characteristics	Crashes to Include			

Calculated Speed	32 MPH	Approved Speed Limit	MPH
Requested Speed Limit	30 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:
 2 midblock crosswalks on segment. Connects to Olentangy River Bikeway and is a signed bike route.
 Assumed B3 characteristics for urban environment. Mostly residential with on-street parking. Hospital and medical buildings on eastern part of segment.
 one pedestrian crash and zero bike crashes within 3 years (2010-2012).

**Nu-Metrics Traffic Analyzer Study
Computer Generated Summary Report
City: COLUMBUS
Street: ThirdAveBetOlentangyRiverRd&Neil**

A study of vehicle traffic was conducted with HI-STAR unit number 0870. The study was done in the BI-DIR lane at ThirdAveBetOlentangyRiverRd&Neil in COLUMBUS, OH in FRANKLIN county. The study began on Apr/04/13 at 11:00 and concluded on Apr/05/13 at 11:00, lasting a total of 24.00 hours. Traffic statistics were recorded in 15 minute time periods. The total recorded volume showed 5444 vehicles passed through the location with a peak volume of 138 on Apr/04/13 at [18:00-18:15] and a minimum volume of 1 on Apr/05/13 at [03:15-03:30]. The AADT count for this study was 5,444.

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 26 MPH with 21.08% vehicles exceeding the posted speed of 25 MPH. The HI-STAR found 0.02 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 31.75 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 >					
19	101	452	1529	2163	935	168	24	5	4	2	1	0	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 5005 which represents 93 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 398 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 >												
5005	351	40	4	2	1	0	0												

CHART 2

HEADWAY

During the peak traffic period, on Apr/04/13 at [18:00-18:15] the average headway between vehicles was 6.475 seconds. During the slowest traffic period, on Apr/05/13 at [03:15-03:30] the average headway between vehicles was 450 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 39.00 and 82.00 degrees F.