

Mast Height & Bridge Clearance Summary

Thomas Johnson Bridge · Monitoring Location 166

PREPARED FOR
Maryland DOT - State Highway AdministrationREPORTING PERIOD
September 9, 2026 - September 15, 2026 (12:00 AM-12:00 AM CT)REPORT GENERATED
September 16, 2026**433**

TOTAL DETECTIONS

61.9

DAILY AVERAGE

10.29'

AVERAGE HEIGHT

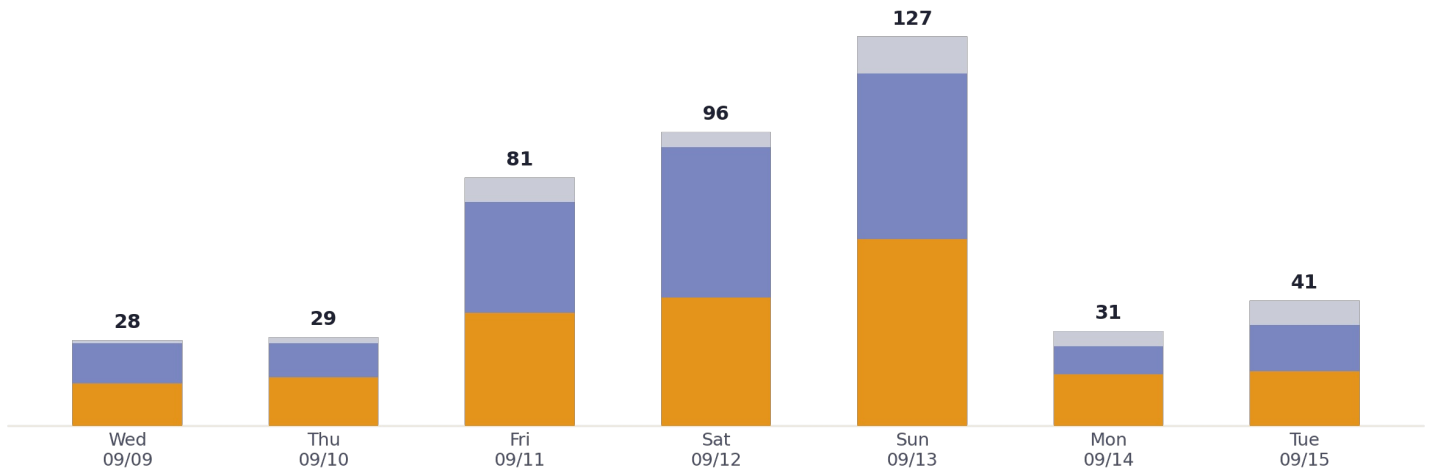
64.22'

TALLEST VESSEL

Daily Vessel Traffic by Direction

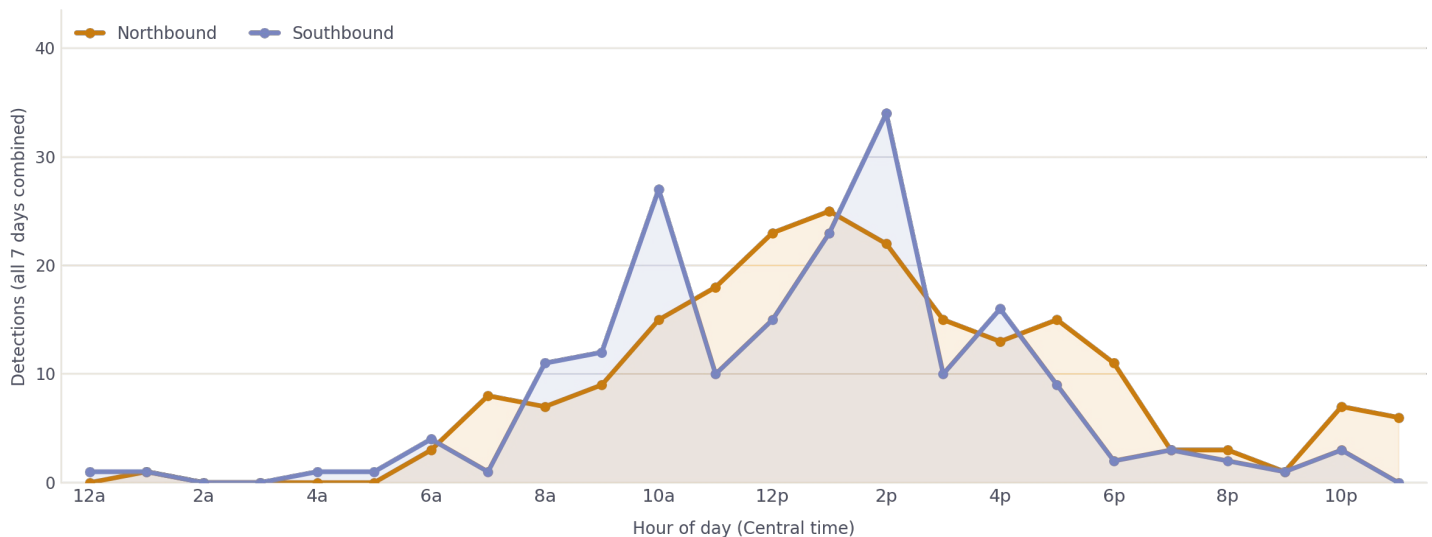
Total vessel detections recorded per day, split by direction of travel. Sunday, September 13, 2026 was the busiest day with 127 detections. Overall for the week: 205 northbound (47%), 187 southbound (43%), 41 stationary/indeterminate (9%).

Northbound Southbound Stationary / indeterminate



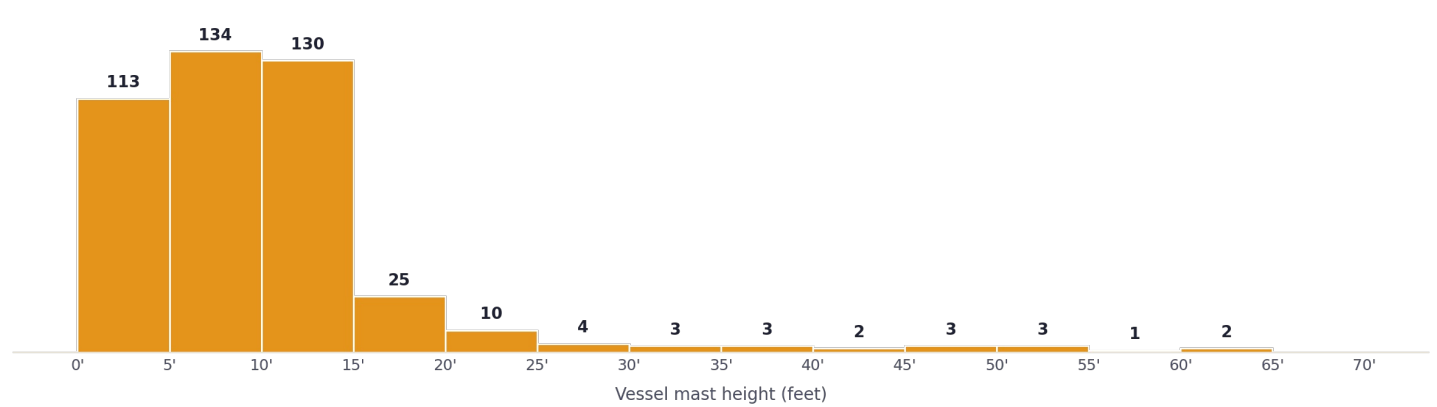
Peak Activity by Hour and Direction

Northbound vs. southbound detections by hour of day (Central time), combined across all seven days. Northbound peaked at 1:00 PM (25 detections); southbound peaked at 2:00 PM (34 detections).



Vessel Height Distribution

Distribution of recorded mast heights across all 433 detections in the reporting period, grouped in 5-foot bands.



Key Observations

- **Sunday** was the busiest day with **127** detections, compared to just **28** on Wednesday; the busiest hour across the full week was **2:00 PM** with 66 detections.
- Of the week’s 433 detections, **205 (47%)** were northbound and **187 (43%)** were southbound, a roughly even split; the remaining **41 (9%)** showed no directional speed (stationary or indeterminate).
- The tallest vessel of the week — **64.22'** — was recorded on Saturday 9/12 3:54 PM, well within the bridge’s clearance envelope.
- Average mast height ranged from **7.88'** on Thursday to **12.79'** on Monday, with a weekly average of **10.29'**; most vessels tracked in the 0-15 foot range, consistent with routine recreational and small commercial traffic.
- Average vessel speed ranged from **6.76 mph** on Saturday to **13.6 mph** on Sunday. Weekend traffic (Saturday – Sunday) accounted for **223** of the week’s 433 detections.

Daily Detail

DATE	TOTAL	NB	SB	PEAK HOUR	AVG. HEIGHT	TALLEST	TALLEST TIME	AVG. SPEED
Wednesday September 9, 2026	28	14	13	2:00 PM	10.77'	51.73'	4:21 PM	11.93 mph
Thursday September 10, 2026	29	16	11	9:00 AM	7.88'	49.53'	9:08 AM	12.94 mph
Friday September 11, 2026	81	37	36	2:00 PM	8.13'	43.87'	4:00 PM	9.97 mph
Saturday September 12, 2026	96	42	49	10:00 AM	10.81'	64.22'	3:54 PM	6.76 mph
Sunday September 13, 2026	127	61	54	1:00 PM	11.14'	63.48'	8:31 AM	13.6 mph
Monday September 14, 2026	31	17	9	2:00 PM	12.79'	54.44'	10:16 AM	10.25 mph
Tuesday September 15, 2026	41	18	15	12:00 PM	10.16'	32.19'	11:56 AM	10.77 mph
Week Total / Avg.	433	205	187	2:00 PM	10.29'	64.22'	—	10.89 mph