# MEMORANDUM 

Date: $\quad$ March 31, 2023
To: Chris Moore
From: Jason Didden
Subject: Ocean City Video Boat Count Results

This project was designed to A) pilot test whether a video review of boat traffic through the Ocean City, Maryland inlet could be feasible for estimating Maryland's private boat ocean fishing effort (given all of Maryland's ocean fishing effort transits this one inlet) and B) compare any preliminary results from this pilot testing with the effort estimates from the Marine Recreational Information Program (MRIP).

## Summary Conclusions

A - Feasibility of using video to estimate Maryland's private boat ocean fishing effort
A video-based system in this particular location would require additional research and development before any resulting estimates could potentially pass a typical peer review used for fishery science. The video approach in this location has its own particular uncertainties, just as the Marine Recreational Information Program (MRIP) has uncertainties. These uncertainties would need to be examined in detail before one could have a high degree of confidence in any point estimate generated by a video-based effort estimate for this location.

B - Comparisons with MRIP
The ranges of effort suggested by this project overlapped with the confidence intervals from the relevant MRIP effort estimates, so this project did not indicate there is necessarily any inherent methodological problem with MRIP in this location. If more precision on Maryland private boat ocean effort was desired, higher sampling levels or specialized surveys would be needed. This is not a new concept, but appears reinforced by the results.

These conclusions are based on " 1 " How this project estimated effort, " 2 " How MRIP estimates effort, and " 3 " a comparison of the effort estimates from this project and MRIP. " 1,2 , and 3 " are detailed below.

1. Estimating Effort in this Video Project

## 1a. Counting Periods

This project counted boats of several types going through the Ocean City, Maryland inlet and then considered ranges of chance that those boats fished in the ocean and ranges of numbers of people fishing on those boats.

The Ocean City Life-Saving Station Museum allowed use of their tower (and power) for mounting the camera and housing equipment. COVID-19 delayed installation of the camera system until July 5, 2020 (so July 6, 2020 was the first full day). It was evident that there was sufficient light from the inlet parking lot and/or lights on vessels to reasonably discern night passage. Periods of fog were minimal - staff either borrowed nearby day data or expanded the same days count depending on the amount of time missed on a case by case basis. Recording continued into 2021 with the intent of obtaining a full calendar year of recording. Unfortunately the camera suffered damage from water intrusion and ceased operation on March 3, 2021. While replaced under warranty, troubleshooting, supply issues, and refurbishment of the lifesaving tower delayed deployment of a new camera until August 4, 2021. Recording continued until April 26, 2022, when the recorder was retrieved. Staff had planned to download videos remotely, but connection issues corrupted all but very short video downloads despite a hardline connection to the recording system. Staff periodically exchanged 6-8 terabyte hard drives as they filled. Due to a proprietary recording format, the recorder was retrieved in April 2022 so that the videos could be reviewed using the recorder itself, but even that was more challenging than anticipated. It was the intent to use a contractor to review the video. However, the tech issues with duplicating the files led to a timing issue for the contractor and meant that files had to be loaded and viewed in 1-hour blocks, greatly slowing down the pace of review. In the end, Council staff (Jason Didden) reviewed/counted all the video considered in this memo - there were a few days of overlap with the contractor and those are discussed below.

This timing means that there was good overlap with the following time periods and they were the focus of review and MRIP comparisons: July-December 2020 (Waves 4,5,6) and SeptemberDecember 2021 (Waves 5-6). Viewing was mostly done at 40X or 20X normal speed depending on how busy the inlet was. This corresponded to 64 X or 32 X settings on the recorder, but when staff timed the reviewing, the actual speed was closer to 40 X or 20X. This means that any day could take up to 1.5 hours to review, though as discussed below, days with lower effort may have unobserved periods and/or could be reviewed faster, so the review times for a day were generally $0.5-1.0$ hours. There is likely to be a range of speeds that any reviewer feels comfortable making a reasonable count of vessels, and staff believes it is likely that some people would review at substantially slower speeds (and take substantially longer to review). Staff did not track project time exactly given the reviewing was done piecemeal amongst other tasks, but a busy summer month probably took around 40 hours to review while a December month took around 20 hours (when recording and organizing data is included).

It was unfortunate that the camera system was not set up leading into the July $4^{\text {th }} 2020$ weekend starting wave 4 , but staff noted that wave heights were consistently low that week (hourly wave height at the weather buoy 19 miles off the MD/DE border for July 1-5 2020 averaged 2.4 feet with no observations over 3.0 feet), and the weather was seasonal except for thunderstorms July 1 (Salisbury, MD Airport). Winds at the ferry dock in Lewes, DE were also seasonally calm, generally below 10 knots. Considering the weather and the holiday week, it seems reasonable to
expect high participation for July 1-5, except for July 1 given thunderstorms were in the area. If the lowest Wednesday counts are used for July 1, and the highest other matching July day of week counts are used for July 2 (Thursday), July 3 (Friday), July 4 (Saturday), and July 5 (Sunday), it seems possible to fill in the missing days with data that should approximate what occurred so that a full month can be estimated.

Depending on the month and day, staff did not review the middle of the night when it became apparent that there was negligible effort. This was done on a day by day basis when traffic appeared to stop and when it appeared to recommence. In the summer the unreviewed period might be relative short (none skipped or just midnight to 2 am ), and in the winter weekdays the period might be extensive, e.g. 4pm-5am. If the day was so stormy that no effort was practicable, staff would check several times to determine that the day remained stormy. Staff noted the start time for each day and when the first counted boats occurred (commercial boats not counted). If recreational traffic appeared sooner than expected, staff would restart at an earlier time so staff has high confidence that there would not be substantial missed traffic, but there were probably a few boats missed each month due to this procedure.

## 1b. The boats

The OC Inlet is incredibly busy in the summer months. To simplify counting for this project, only vessels that might reasonably be engaged in recreational fishing were counted. Counting was segregated by am and pm. Vessels not counted included government vessels, commercial fishing vessels, thrill rides, parasailing boats, jet skis, and kayaks. Jet skis are very prevalent and go back and forth across the inlet threshold, but negligible fishing on jet skis was observed. Negligible kayaking was observed to leave the inlet. The inlet is too busy to simultaneously count in both directions - only outbound vessels were generally recorded.


One camera was utilized with its view arc approximated in Figure 1. Most vessels turn left/north departing the inlet due to shoals to the southeast, but some will turn south behind a jetty or cross the shoals. Based on an October 2022 meeting in Ocean City, MD with several local captains, 5 categories of vessels that went through the inlet and went out of view or out of the view arc were counted: (1) small/medium powerboats (except as described above) that turn left or proceed east; (2) large powerboats ("cabin cruisers" and/or "deadrises"); (3) sailboats; (4) "maybes" generally very small or very large powerboats that appear unlikely to engage in fishing; and (5) power boats, generally smaller, that turn south and disappear out of view. Vessels that fish in the inlet or in the immediate vicinity of the jetty ends or just outside the inlet were not counted. They most often fish these areas for a short period of time before going back into the bays and are unlikely to report ocean fishing as their primary fishing area when interviewed by the MRIP program.

This approach was used due to both simplifying the counting, and to allow different estimates of anglers per boat or chance of "ocean fishing" to be applied later, per discussion below. The qualitative vessel-type judgement of the reviewer introduces immediate uncertainty into any counts. The most acute issue is probably the parasailing operations, which frequently use the inlet with several vessel styles and are similar to many boats that may be fishing, especially when viewed in fast-forward. An effort was made to exclude them from counts, but there are certainly some that were counted, and some boats that may have appeared very similar to the parasailing boats that may have not been counted. To the extent practicable, vessels are tracked visually and not counted if they make a U-turn and reenter the inlet/back bays, which happens with some frequency. The reviewer cannot pick up all such returns visually especially during busy times. It is virtually certain that some boats transited the inlet twice in one outing and were counted twice - viewing in any degree of fast forward does not allow tracking of individual vessels. It is also certain that some boats, perhaps a substantial portion that get counted, never fished but were only out for a cruise. There are also probably some small commercial boats that were counted as large powerboats and some large powerboats that were perceived as small commercial boats and not counted.

Ranges of boats fishing are used to account for this behavior, and this provides a transition into the methods eventually used to estimate potential ranges of trips. Each category is addressed separately, and at this point the approaches are best described as "analysts prerogative." They are informed by the meeting with several local captains in October 2022 and observed vessel behavior.

Small Powerboats that turn left or proceed generally eastward. Trips departing before 9 am generally appear headed off-shore and probably have a very high percentage of "ocean fishing." Trips later in the day are less certain in terms of ocean fishing activity versus cruising or fishing mostly in the back bays. Staff assigned the following chances for these vessels to be "ocean fishing."
a. July-Aug: 60\%-80\% fishing (more cruising)
b. Oct-Dec: $75 \%-90 \%$ fishing (more fishing in offseason)
c. September: $67.5 \%-85 \%$ fishing (in between a. and b.)

Large Powerboats: these are boats that appear designed and dedicated for fishing. They may or may not be charters - charter for hire activity is subtracted from estimates, as described later.
d. July-Aug: 90\%-95\% fishing (fewer migrating transients, more recreational boats relative to potential commercial mis-IDs)
e. Oct-Dec: $80 \%-90 \%$ fishing (more migrating transients, fewer recreational boats relative to potential commercial mis-IDs)
f. September: $85 \%-92.5 \%$ fishing (in between a. and b.)

Sailboat activity was negligible (won't affect estimates much)
g. All: $0 \%-10 \%$ fishing

The "Maybes" did not appear likely to be fishing but were not completely dismissed. They could be very small powerboats or large cruisers without a fishing deck. There are not substantial numbers (won't affect estimates much).
h. July-Aug: 20\%-30\% fishing
i. Oct-Dec: $10 \%-20 \%$ fishing (more migrating transiting)
j. September: $15 \%-25 \%$ fishing (in between a. and b.)

Boats headed out of sight to the south. These are generally smaller boats, but many appear to be "fishy." They probably often spent more time in the back bays than in the ocean.
k. All: $25 \%-50 \%$

MRIP staff provided data from Maryland dockside intercepts for private ocean trips and for-hire ocean trips. The following $95 \%$ Confidence Intervals were observed for anglers per boat:

2020 Private/rental: 3.0-4.5 anglers per boat
2020 For Hire: 4.1 to 5.8 anglers per boat
2021 Private/rental: 3.2-4.0 anglers per boat
2021 For Hire: 5.2-6.5 anglers per boat
Wave by wave angler per boat estimates are available and could be matched to the monthly estimates but given the nature of this exercise, the annual values seemed likely sufficient to guide a range selection. While the for-hire data may not be directly applicable to the "Large Powerboat" category, it seemed reasonable given the similar vessel type. Based on these data and conversations with local captains at the October 2022 meeting in Ocean City and personal experience, staff used the following ranges for anglers fishing on each vessel type (the first two are the ones that most impact the video-based effort ranges):

1. Small Powerboats: 3-4 people
2. Large Powerboats: 5-6 people
3. Sailboat: 1-2 people
4. "Maybes": 1-2 people
5. Small/Medium boats to the South: 3-4 people

Staff then created ranges of trips by applying the low percent fishing and low number of people per boat to create a "low range" and applying the high percent fishing and high number of people per boat to create a "high range" for each vessel type and month. While the resulting range is not a confidence interval like MRIP estimates, it seemed a reasonable way to at least partly account for the facts that not all boats traversing the inlet are going to be fishing, and the number of people per boat has some variability. With the boat counts, a range of fishing participation, and a range of anglers per boat, one can construct a range of possible trips, though this range still doesn't fully account for all uncertainties as discussed above.

Once the trip estimates from all the vessel types were tallied, then charter for-hire effort must be subtracted to get to a value that is a closer comparison to the MRIP private/rental trip estimates that were of interest. Staff retrieved the relevant wave charter ocean for-hire estimates from the MRIP website. Staff then calculated the $95 \%$ confidence interval range (see confidence interval discussion below). Staff then divided the wave estimate in half for a relevant monthly estimate. Staff then deducted the high charter for-hire estimate from the low initial video trip range for a low final video trip estimate, and deducted the low charter for-hire estimate from the high initial video trip range for a high final video trip estimate. For example, if the confidence interval for charter for hire trips for a wave was 500-1,000, that's $250-500$ for one month of that wave. If the initial video trip month range (which includes some charter for hire activity) was $10,000-20,000$, then the final video estimate would be 9,500 ( 10,000 minus 500 ) to 19,750 ( 20,000 minus 250 ).

The created ranges are intended to capture some of the uncertainty involved with the boat counting approach, but as discussed below for MRIP's confidence intervals, they can not fully capturing all the uncertainties involved.

## 2. Estimating Effort With MRIP

This section borrows/copies heavily from these MRIP Websites:

## https://www.fisheries.noaa.gov/recreational-fishing-data/fishing-effort-survey-glance

https://www.fisheries.noaa.gov/recreational-fishing-data/effort-survey-improvements
https://www.fisheries.noaa.gov/recreational-fishing-data/hire-survey-glance
https://www.fisheries.noaa.gov/recreational-fishing-data/recreational-fishing-data-glossary

NOAA Fisheries' Marine Recreational Information Program administers a household mail Fishing Effort Survey (FES) from Main to Mississippi and in Hawaii. FES is self-administered and collects trip information for each resident of a responding household where we ask them to report their trips over a specified time period. To sample, we use a USPS list of residential addresses matched to the National Saltwater Angler Registry, which is a database of licensed anglers. This creates a sampling frame of licensed and unlicensed households, and we sample those at different rates. This is done to help obtain a representative sample while optimizing sampling efficiency. The FES replaced a phone-based survey called the Coastal Household Telephone Survey (CHTS).

Each year, about 300,000 residential households across 17 states receive the Fishing Effort Survey in the mail. Response rates are consistently above 30 percent. Because research shows response rates increase when participants are compensated for their time and asked about topics other than fishing, the Fishing Effort Survey includes a $\$ 2$ prepaid cash incentive and questions about weather and outdoor activity. A response from someone who didn't fish at all is just as valuable to our survey as one from someone who fished every day.

While the Fishing Effort Survey is only sent to households in coastal states, the Access Point Angler Intercept Survey (APAIS) is conducted with recreational anglers regardless of where they reside. Because the APAIS asks anglers to report their state and county of residence, its data can be used to calculate a coverage adjustment that can be applied to our effort estimates to account for out-of-frame angler trips. (It would be expensive and inefficient to conduct the FES in noncoastal states, where the likelihood of reaching households whose residents participated in marine recreational fishing is low.) The APAIS survey is also used to apportion the total saltwater trips into locations such as inland or ocean.

Studies on the FES have found:
-The FES provides a more representative sample of the population we survey.
-The FES is less susceptible to bias resulting from non-response and non-coverage.
-The FES gives more household members more time to provide complete answers, which is believed to produce more accurate responses to questions about fishing activity.
-The FES is more efficient than the CHTS.
-Differences between CHTS and FES estimates can largely be attributed to differences in fishing activity between the households in each survey's sample frame. These differences in fishing activity are correlated with differences in demographic characteristics, such as age, gender, and number of children at home. It is generally understood that the telephone survey did a poorer and poorer job over time of reaching people who fished as people switched to cell phones and could not be reached. The mail survey is also more likely to get to the person in the household who best knows about fishing activity (phone calls were being screened out more and more).

On December 31, 2017, the CHTS was discontinued. As of January 1, 2018, the FES is used to produce all federal estimates of fishing effort. Based on three years of overlap with the FES and CHTS, a calibration model was peer reviewed and used to convert older effort estimates dating back to 1981 to an "apples to apples" trip "currency" of the FES.

The number of trips taken from for-hire vessels is collected through the For-Hire Survey. Recall these must be deducted from the initial video counts to get something similar to MRIP's private/rental counts. The For-Hire Survey is conducted by state agency staff, who call a random sample of for-hire vessel operators each week. All For-Hire Survey respondents are asked to report their vessels' fishing activity during the previous week and to recount details from each trip, including:

Number of vessel trips with paying passengers taken that week

Number of anglers that fished from the vessel on each trip
The resulting data are used to estimate the number of angler trips taken from for-hire vessels. These for-hire effort estimates are paired with the for-hire catch-per-trip estimates we derive from our dockside angler intercept survey to estimate total for-hire catch. In the Greater Atlantic, electronic vessel trip reports supplement the For-Hire Survey. While the vessels that must submit eVTRs are still part of the For-Hire Survey sample frame, they are not called to participate. Data collected through these eVTRs are used alongside data collected through the For-Hire Survey to estimate total for-hire fishing effort.

## Point Estimates, PSEs, and Confidence Intervals

It is useful to review what the MRIP estimates mean and how to interpret the associated Proportional Standard Errors (PSEs) that accompany the point estimates as indications of uncertainty. For example, for private boat ocean effort from Maryland in Wave 4 (July/August) of 2020, MRIP provides a point estimate of 185,341 angler trips with a PSE of $39.7 \%$ (or 0.397 ). Based on how the PSEs are calculated (the standard error of an estimate as a percentage of the estimate), one can construct a $95 \%$ confidence interval using the PSE and assuming a normal distribution: plus or minus the percent " 1.96 * the PSE" will provide a $95 \%$ confidence interval. In the example above, 1.96 * . 397 = plus or minus $78 \%$. For this example minus $78 \%$ makes the bottom of the confidence interval range 41,123 trips and plus $78 \%$ makes the top of the confidence interval range 329,559 trips (it's a little less than $78 \%$ so there's a bit of rounding error). An MRIP query for effort for 2020 private boat ocean effort from Maryland can provide the results as a graph with this range illustrated, as shown below (2020 Waves 3-6).


Figure 2. MRIP 2020 Maryland Private/rental ocean trips.

The $95 \%$ confidence interval has a specific meaning worth reviewing. In our case it means that if you had a time machine and could have randomly re-sampled the same event 20 times, the true value for the population being surveyed would be contained in the resulting estimates' confidence intervals 19/20 times ( $95 \%$ of the time). The following figure illustrates (with made up data) the information you get from a $95 \%$ confidence interval.


Figure 3. 95\% Confidence Interval Illustration

The uncertainties described by the PSEs and illustrated by the confidence intervals do not fully capture the uncertainty involved in MRIP estimates (nor has MRIP claimed they could/would). For example, if the sampled population systematically does not match the full relevant population, there is the potential for systematic bias that cannot be reflected in the uncertainty conveyed by the PSEs - this was why the estimate changes with the MRIP mail-based fishing effort survey were so out of the bounds of previous years' estimated PSEs. The PSEs can only reflect the uncertainty inherent in the sample design and the variability of the data that is collected. Mismatch between the sampled population and its representativeness of the entire fishing population can't be incorporated into the PSEs, is a factor in every survey, and several peer reviews have concluded that the current MRIP design should be substantially less biased than previously was occurring (i.e. it does a better job of sampling the entire fishing population). Other sources of variability like anglers' ability to accurately recount trips over a recent 2-month period are also not reflected in the PSEs. Potential other sources of bias like differences in catch rates between private-dock-based anglers and public access sites also are not integrated into PSEs. These are known potential issues and MRIP engages in ongoing research to determine and account for potential problems like these. For the purposes of this project, the main point is that not all uncertainties are (or can be) captured by the confidence intervals published by MRIP, including for the Maryland ocean effort estimates.

The relevant MRIP estimates are provided below. One will note that when the PSE is greater than 51 , the lower $95 \%$ confidence interval bound extends down to zero and the upper confidence interval bound extends at least double the estimate. $(51 \% * 1.96=+/-100 \%)$. The Charter boat estimates are divided by 2 because they are 2-month wave estimates and are deducted from monthly video estimates.

Table 1. Overlapping MRIP Maryland 2020 Ocean Private Boat Effort Estimates

| Year | Wave | Angler <br> Trips | PSE | Low | High |
| :---: | :--- | ---: | ---: | ---: | ---: |
| 2020 | JULY/AUGUST | 185,341 | 39.7 | 41,123 | 329,559 |
| 2020 | SEPTEMBER/OCTOBER | 5,568 | 59.7 | 0 | 12,083 |
| 2020 | NOVEMBER/DECEMBER | 6,682 | 52.2 | 0 | 13,518 |
|  | Total | 197,591 | 37.3 | 53,006 | 342,177 |
|  |  |  |  |  |  |

Table 2. Overlapping MRIP Maryland 2021 Ocean Private Boat Effort Estimates

| Year | Wave | Angler <br> Trips | PSE | Low | High |
| :---: | :--- | ---: | ---: | ---: | ---: |
| 2021 | SEPTEMBER/OCTOBER | 60,447 | 55.2 | 0 | 125,846 |
| 2021 | NOVEMBER/DECEMBER | 10,472 | 37.1 | 2,857 | 18,087 |
|  | Total | 70,919 | 47.4 | 5,051 | 136,787 |

Table 3. Overlapping MRIP Maryland 2020 Ocean Charter Boat Effort Estimates

| Year | Wave | Angler <br> Trips | PSE | Low | Low/2 | High | High/2 |
| :---: | :--- | ---: | :---: | ---: | ---: | ---: | ---: |
| 2020 | JULY/AUGUST | 6,420 | 34.1 | 2,042 | 1,021 | 10,798 | 5,399 |
| 2020 | SEPTEMBER/OCTOBER | 1,822 | 27.5 | 820 | 410 | 2,824 | 1,412 |
| 2020 | NOVEMBER/DECEMBER | 49 | 16.2 | 33 | 17 | 65 | 32 |

Table 4. Overlapping MRIP Maryland 2021 Ocean Charter Boat Effort Estimates

| Year | Wave | Angler <br> Trips | PSE | Low | Low/2 | High | High/2 |
| :---: | :--- | :---: | ---: | ---: | ---: | ---: | ---: |
| 2021 | SEPTEMBER/OCTOBER | 1,022 | 22 | 570 | 285 | 1,474 | 737 |
| 2021 | NOVEMBER/DECEMBER | 0 | 0 | 0 | 0 | 0 | 0 |

## 3. Video Counts and Comparisons With MRIP

Section A) below provides the boat counts for each month for small/medium, large, and small/medium turned south boats. The sailboats and "maybes" were low enough that they do not contribute in a meaningful fashion but are available in Appendix 1.

Section B) below provides the MRIP ocean private trip effort confidence intervals and the trip effort ranges from this project (with charter for-hire ranges deducted) side by side. The trip ranges from this project are not statistical confidence intervals and their construction is based on the boat counts and the range-finding procedures described above.
A) The following figures describe the small/medium boat, large, and small/medium south boat counts each month. The axis were all set to be the same - while it is harder to see the day to day variability in less active months, the differences in scale seemed more important to note.

Figure 4. July 2020 Boat Counts


Figure 5. August 2020 Boat Counts


Figure 6. September 2020 Boat Counts


Figure 7. October 2020 Boat Counts


Figure 8. November 2020 Boat Counts


Figure 9. December 2020 Boat Counts


Figure 10. September 2021 Boat Counts


Figure 11. October 2021 Boat Counts


Figure 12. November 2021 Boat Counts


Figure 13. December 2021 Boat Counts

| December 2021 Boat Counts |  |  |
| :---: | :---: | :---: |
| 500 <br> 450 |  |  |
|  |  |  |
| $400 \sim 200$ |  |  |
| 350 |  |  |
| $300 \sim 150$ |  |  |
| 250 |  |  |
| $200 \square 100$ |  |  |
| 150 |  |  |
| 100 - 50 |  |  |
| 50 | $\qquad$ |  |
|  |  $\qquad$ Large (right axis) ——Small/Med S (right axis) | 0 |

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B) The following figures describe the trips ranges generated from the MRIP estimate confidence intervals and the Video Count Ranges. There is overlap in each case. The MRIP ranges are the $95 \%$ confidence intervals. The video ranges combine the boat counts, range of percent fishing, range of people per boat, and range of charter trips as detailed above.

Figure 14. Wave 42020 Trips


Figure 15. Wave 52020 Trips
Wave 52020


Figure 16. Wave 62020 Trips


Figure 17. Wave 52021 Trips


Figure 18. Wave 62021 Trips


As we were finalizing implementation of this project, a review paper on video-based effort counting was published, which highlights many of the issues we encountered. Had that paper been published a few years earlier this project would have likely been modified (Hartill et al 2020 - Digital camera monitoring of recreational fishing effort: Applications and challenges. Fish and Fisheries. Volume 21, Issue 1
https://onlinelibrary.wiley.com/doi/abs/10.1111/faf.12413).

1. Logistics and equipment issues were major challenges. Any use of a similar system for conducting actual estimates would have to have additional redundancies to avoid loss of data collection. Substantial on-site presence and additional information technology skills would be needed to monitor and correct problems.
2. Video retrieval, storage, and viewing were major challenges and extended the time needed to complete the project. It is likely that different systems could automatically retrieve data and store to the cloud with a file type that is more accessible.
3. This location provided a good view of the inlet. However, the inlet was busier than anticipated, limiting the speed at which video could be reviewed and extending the time required to complete the project. Also, the uncertainty about vessel behavior out of view complicates interpretation of the counts. The geography of the area is conducive to funneling effort and viewing the inlet, but the shoal offshore creates a complicated pattern of vessel behavior after leaving the inlet. A very wide angle could help see where vessels go, but the busyness of the inlet limits the amount of time one can track any given vessel and would make it difficult to discern vessel types. Multiple cameras would greatly add to the complexity of using cameras to count vessels. It may be possible that machine learning/ artificial intelligence could be used to automate counting, but the behavior of jetskis, boats that often fish near the inlet threshold, and non-fishing parasailing operations would seem likely to complicate automatic counting. The issue of vessel behavior once beyond the inlet threshold would also be a continuing challenge without an immediate solution. With the contractor who we had hoped would do substantial counting, there was only one day ( 1 of 3 ) of overlapped counting with even low activity due to weather. The numbers for large, sail, maybes, and small/medium boats south were very similar but Council staff's count of small/medium boats N/E was 7 while the contractors count was 13 . A second count by staff led to the same initial staff number - the difference was staff's perception of boats that only fished for a short time outside the inlet or appeared likely to have re-entered the view frame relatively quickly and returned to the bay. So while staff remained confident that staff's count was reasonable, this highlighted that a video count could be very sensitive to the individual counter and their interpretation of the complex vessel behavior around the inlet.
4. The uncertainty of MRIP estimates at this fine scale, especially given full years were not able to be captured, limits the ability to make meaningful comparisons with MRIP.
5. Given the challenging behavior of vessels once clearing the inlet, the counts provided some perspective on vessel activity at low cost, but staff does not immediately see a path to how a relatively simple video system could be used to reliably estimate ocean recreational fishing effort in Maryland.

## Appendix 1 - Vessel Count and Trip Tables

July 2020

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  | High Sub |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | $\begin{aligned} & \hline \text { Small/Med (Left } \\ & \text { Axis) } \end{aligned}$ | Large (right axis) | Sail | Maybes | Small/Med S (right axis) |  | $\begin{aligned} & \hline \begin{array}{l} \text { Small/Me } \\ \mathrm{d} \end{array} \\ & \hline \end{aligned}$ | Large | Sail | Maybes | $\begin{aligned} & \hline \begin{array}{l} \text { Small/Me } \\ \text { ds } \end{array} \\ & \hline \end{aligned}$ | Low Sub | $\begin{aligned} & \hline \begin{array}{l} \text { Small/Me } \\ \text { d } \end{array} \\ & \hline \end{aligned}$ | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { d } \mathrm{S} \end{aligned}$ |  |
|  |  |  |  |  |  |  | People on | 3 | 5 | 1 | 1 | 3 |  | ${ }_{4}$ | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | \% Boats | 60\% | 90\% | 0\% | 20\% | 25\% |  | 80\% | -95\% | - | , | , |  |
| Wed | 1 | 102 | 57 | 2 | 2 | 16 |  | 184 | 257 | 0 | 0 | 12 | 453 | 326 | 325 | 0 | 1 | 32 | 685 |
| Thu | 2 | 119 | 63 | 2 | 3 | 21 |  | 214 | 284 | 0 | 1 | 16 | 514 | 381 | 359 | 0 | 2 | 42 | 784 |
| Fri | 3 | 440 | 179 | 1 | 4 | 52 |  | 792 | 806 | 0 | 1 | 39 | 1,637 | 1,408 | 1,020 | 0 | 2 | 104 | 2,535 |
| Sat | 4 | 440 | 179 | 1 | 4 | 52 |  | 792 | 806 | 0 | 1 | 39 | 1,637 | 1,408 | 1,020 | 0 | 2 | 104 | 2,535 |
| Sun | 5 | 307 | 126 | 0 | 2 | 29 |  | 552 | 568 | 0 | 0 | 22 | 1,142 | 981 | 719 | 0 | 1 | 58 | 1,760 |
| Mon | 6 | 121 | 48 | 0 | 3 | 11 |  | 218 | 216 | 0 | 1 | 8 | 443 | 387 | 274 | 0 | 2 | 22 | 685 |
| Tue | 7 | 53 | 44 | 4 | 1 | 7 |  | 95 | 198 | 0 | 0 | 5 | 299 | 170 | 251 | 1 | 1 | 14 | 436 |
| Wed | 8 | 184 | 72 | 3 | 15 | 27 |  | 331 | 324 | 0 | 3 | 20 | 678 | 589 | 410 | 1 | 9 | 54 | 1,063 |
| Thu | 9 | 60 | 37 | 2 | 2 | 9 |  | 108 | 167 | 0 | 0 | 7 | 282 | 192 | 211 | 0 | 1 | 18 | 423 |
| Fri | 10 | 4 | - 1 | 0 | 0 | 1 |  | 7 | 5 | 0 | 0 | 1 | 12 | 13 | 6 | 0 | 0 | 2 | 21 |
| Sat | 11 | 79 | 13 | 1 | 1 | 8 |  | 142 | 59 | 0 | 0 | 6 | 207 | 253 | 74 | 0 | 1 | 16 | 344 |
| Sun | 12 | 171 | 79 | 0 | 5 | 17 |  | 308 | 356 | 0 | 1 | 13 | 677 | 547 | 450 | 0 | 3 | 34 | 1,035 |
| Mon | 13 | 92 | 43 | 0 | 3 | 4 |  | 166 | 194 | 0 |  | 3 | 363 | 294 | 245 | 0 | 2 | 8 | 549 |
| Tue | 14 | 120 | 55 | 3 | 3 | 18 |  | 216 | 248 | 0 | 1 | 14 | 478 | 384 | 314 | 1 | 2 | 36 | 736 |
| Wed | 15 | 150 | 70 | 1 | 2 | 21 |  | 270 | 315 | 0 | 0 | 16 | 601 | 480 | 399 | 0 | 1 | 42 | 922 |
| Thu | 16 | 24 | 62 | 2 | 1 | 2 |  | 43 | 279 | 0 | 0 | 2 | 324 | 77 | 353 | 0 | 1 | 4 | 435 |
| Fri | 17 | 59 | 65 | 4 | 0 | 2 |  | 106 | 293 | 0 | 0 | 2 | 400 | 189 | 371 | 1 | 0 | 4 | 564 |
| Sat | 18 | 398 | 155 | 1 | 0 | 44 |  | 716 | 698 | 0 | 0 | 33 | 1,447 | 1,274 | 884 | 0 | 0 | 88 | 2,245 |
| Sun | 19 | 307 | 126 | 0 | 2 | 29 |  | 552 | 568 | 0 | 0 | 22 | 1,142 | 981 | 719 | 0 | 1 | 58 | 1,760 |
| Mon | 20 | 121 | 36 | 1 | 4 | 30 |  | 218 | 162 | 0 | 1 | 23 | 403 | 387 | 205 | 0 | 2 | 60 | 655 |
| Tue | 21 | 163 | 50 | 3 | 3 | 24 |  | 293 | 225 | 0 | 1 | 18 | 537 | 522 | 285 | 1 | 2 | 48 | 857 |
| Wed | 22 | 106 | 49 | 2 | 3 | 10 |  | 191 | 221 | 0 | 1 | 8 | 419 | 339 | 279 | 0 | 2 | 20 | 641 |
| Thu | 23 | 85 | 35 | 0 | 3 | 12 |  | 153 | 158 | 0 | 1 | 9 | 320 | 272 | 200 |  | 2 | 24 | 497 |
| Fri | 24 | 118 | 66 | 0 | 2 | 19 |  | 212 | 297 | 0 | 0 | 14 | 524 | 378 | 376 | 0 | 1 | 38 | 793 |
| Sat | 25 | 440 | 179 | 1 | 4 | 52 |  | 792 | 806 | 0 | 1 | 39 | 1,637 | 1,408 | 1,020 | 0 | 2 | 104 | 2,535 |
| Sun | 26 | 264 | 83 | 2 | 4 | 34 |  | 475 | 374 | 0 | 1 | 26 | 875 | 845 | 473 | 0 | 2 | 68 | 1,389 |
| Mon | 27 | 116 | 53 | 2 | 2 | 23 |  | 209 | 239 | 0 | 0 | 17 | 465 | 371 | 302 | 0 | 1 | 46 | 721 |
| Tue | 28 | 74 | 31 | 2 | 1 | 16 |  | 133 | 140 | 0 | 0 | 12 | 285 | 237 | 177 | 0 | 1 | 32 | 447 |
| Wed | 29 | 102 | 57 | 2 | 2 | 16 |  | 184 | 257 | 0 | 0 | 12 | 453 | 326 | 325 | 0 | 1 | 32 | 685 |
| Thu | 30 | 119 | 63 | 2 | 3 | 21 |  | 214 | 284 | 0 | 1 | 16 | 514 | 381 | 359 | 0 | 2 | 42 | 784 |
| Fri | 31 | 35 | 80 | 1 | 0 | 13 |  | 63 | 360 | 0 | 0 | 10 | 433 | 112 | 456 | 0 | 0 | 26 | 594 |

August 2020

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  | High Sub |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | Small/Me d (Left Axis) | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Large } \\ \text { (right } \\ \text { axis) } \end{array} \\ \hline \end{array}$ | Sail | Maybes | Small/Me dS (right axis) |  | $\begin{aligned} & \text { SmalI/Me } \\ & \mathrm{d} \end{aligned}$ | Large | Sail | Maybes | $\begin{array}{\|l\|} \hline \text { Small/Me } \\ \text { d S } \end{array}$ | Low Sub | Small/Me d | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { d S } \end{aligned}$ |  |
|  |  |  |  |  |  |  | People on boat | 3 | 5 | 1 | 1 | 3 |  | 4 | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | $\begin{aligned} & \text { \% Boats } \\ & \text { Fishing } \end{aligned}$ | 60\% | 90\% | 0\% | 20\% | 25\% |  | 80\% | 95\% | 10\% | 30\% | 50\% |  |
| Sat | 1 | 265 | 135 | 4 | 11 | 40 |  | 477 | 608 | 0 | 2 | 30 | 1,117 | 848 | 770 | 1 | 7 | 80 | 1,705 |
| Sun | 2 | 42 | 31 | 0 | 3 | 0 |  | 76 | 140 | 0 | 1 | 0 | 216 | 134 | 177 | 0 | 2 | 0 | 313 |
| Mon | 3 | 44 | 29 | 1 | 1 | 6 |  | 79 | 131 | 0 | 0 | 5 | 214 | 141 | 165 | 0 | 1 | 12 | 319 |
| Tue | 4 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wed | 5 | 53 | 7 | 3 | 1 | 16 |  | 95 | 32 | 0 | 0 | 12 | 139 | 170 | 40 | 1 | 1 | 32 | 243 |
| Thu | 6 | 149 | 172 | 0 | 3 | 9 |  | 268 | 774 | 0 | 1 | 7 | 1,050 | 477 | 980 | 0 | 2 | 18 | 1,477 |
| Fri | 7 | 239 | 190 | 1 | 2 | 32 |  | 430 | 855 | 0 | 0 | 24 | 1,310 | 765 | 1,083 | 0 | 1 | 64 | 1,913 |
| Sat | 8 | 398 | 227 | 3 | 3 | 41 |  | 716 | 1,022 | 0 | 1 | 31 | 1,769 | 1,274 | 1,294 | 1 | 2 | 82 | 2,652 |
| Sun | 9 | 397 | 204 | 6 | 7 | 23 |  | 715 | 918 | 0 | 1 | 17 | 1,651 | 1,270 | 1,163 | 1 | 4 | 46 | 2,485 |
| Mon | 10 | 123 | 53 | 1 | 5 | 30 |  | 222 | 236 | 0 | 1 | 22 | 482 | 394 | 299 | 0 | 3 | 60 | 757 |
| Tue | 11 | 93 | 42 | 4 | 3 | 19 |  | 168 | 189 | 0 | 1 | 14 | 372 | 298 | 239 | 1 | 2 | 38 | 579 |
| Wed | 12 | 116 | 44 | 0 | 4 | 20 |  | 209 | 198 | 0 | 1 | 15 | 423 | 371 | 251 | 0 | 2 | 40 | 664 |
| Thu | 13 | 130 | 64 | 1 | 2 | 22 |  | 234 | 288 | 0 | 0 | 17 | 539 | 416 | 365 | 0 | 1 | 44 | 826 |
| Fri | 14 | 96 | 28 | 2 | 3 | 11 |  | 173 | 126 | 0 | 1 | 8 | 308 | 307 | 160 | 0 | 2 | 22 | 491 |
| Sat | 15 | 25 | 15 | 2 | 0 | 7 |  | 45 | 68 | 0 | 0 | 5 | 118 | 80 | 86 | 0 | 0 | 14 | 180 |
| Sun | 16 | 0 | 2 | 0 | 0 | 0 |  | 0 | 9 | 0 | 0 | 0 | 9 | 0 | 11 | 0 | 0 | 0 | 11 |
| Mon | 17 | 18 | 16 | 0 | 2 | 12 |  | 32 | 72 | 0 | 0 | 9 | 114 | 58 | 91 | 0 | 1 | 24 | 174 |
| Tue | 18 | 101 | 122 | 1 | 3 | 7 |  | 182 | 549 | 0 | 1 | 5 | 737 | 323 | 695 | 0 | 2 | 14 | 1,035 |
| Wed | 19 | 76 | 94 | 0 | 2 | 11 |  | 137 | 423 | 0 | 0 | 8 | 568 | 243 | 536 | 0 | 1 | 22 | 802 |
| Thu | 20 | 121 | 65 | 2 | 0 | 15 |  | 218 | 293 | 0 | 0 | 11 | 522 | 387 | 371 | 0 | 0 | 30 | 788 |
| Fri | 21 | 228 | 130 | 1 | 1 | 23 |  | 410 | 585 | 0 | 0 | 17 | 1,013 | 730 | 741 | 0 | 1 | 46 | 1,517 |
| Sat | 22 | 273 | 100 | 3 | 0 | 14 |  | 491 | 450 | 0 | 0 | 11 | 952 | 874 | 570 | 1 | 0 | 28 | 1,472 |
| Sun | 23 | 207 | 63 | 2 | 1 | 16 |  | 373 | 284 | 0 | 0 | 12 | 668 | 662 | 359 | 0 | 1 | 32 | 1,055 |
| Mon | 24 | 77 | 27 | 2 | 3 | 8 |  | 139 | 122 | 0 | 1 | 6 | 267 | 246 | 154 | 0 | 2 | 16 | 419 |
| Tue | 25 | 72 | 22 | 3 | 4 | 13 |  | 130 | 99 | 0 | 1 | 10 | 239 | 230 | 125 | 1 | 2 | 26 | 385 |
| Wed | 26 | 110 | 30 | 2 | 2 | 17 |  | 198 | 135 | 0 | 0 | -13 | 346 | 352 | 171 | 0 | 1 | 34 | 559 |
| Thu | 27 | 72 | 19 | 2 | 3 | 17 |  | 130 | 86 | 0 | 1 | - 13 | 228 | 230 | 108 | 0 | 2 | 34 | 375 |
| Fri | 28 | 154 | 55 | 2 | 3 | 28 |  | 277 | 248 | 0 | 1 | 21 | 546 | 493 | 314 | 0 | 2 | 56 | 865 |
| Sat | 29 | 2 | 2 | 0 | 0 | 0 |  | 4 | 9 | 0 | 0 | 0 | 13 | 6 | 11 | 0 | 0 | 0 | 18 |
| Sun | 30 | 162 | 18 | 3 | 0 | 33 |  | 292 | 81 | 0 | 0 | 25 | 397 | 518 | 103 | 1 | 0 | 66 | 688 |
| Mon | 31 | 123 | 65 | 0 | 2 | 12 |  | 221 | 293 | 0 | 0 | - 9 | 523 | 394 | 371 | 0 | 1 | 24 | 789 |

September 2020

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  | High Sub |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | Small/Me d (Left Axis) | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Large } \\ \text { (right } \\ \text { axis) } \end{array} \\ \hline \end{array}$ | Sail | Maybes | Small/Me dS (right axis) |  | $\begin{aligned} & \text { SmalI/Me } \\ & \text { d } \end{aligned}$ | Large | Sail | Maybes | $\begin{array}{\|l} \text { Small/Me } \\ \text { d S } \end{array}$ | Low Sub | Small/Me d | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { d S } \end{aligned}$ |  |
|  |  |  |  |  |  |  | People on boat | 3 | 5 | 1 | 1 | 3 |  | 4 | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | $\begin{aligned} & \text { \% Boats } \\ & \text { Fishing } \end{aligned}$ | 67.5\% | 85\% | 0\% | 15\% | 25\% |  | 85\% | 92.5\% | 10\% | 25\% | 50\% |  |
| Tue | 1 | 8 | 11 | 1 | 1 | 3 |  | 16 | 47 | 0 | 0 | 2 | 65 | 27 | 61 | 0 | 1 | 6 | 95 |
| Wed | 2 | 29 | 35 | 1 | 1 | 6 |  | 59 | 149 | 0 | 0 | 5 | 212 | 99 | 194 | 0 | 1 | 12 | 306 |
| Thu | 3 | 83 | 41 | 2 | 2 | 7 |  | 168 | 174 | 0 | 0 | 5 | 348 | 282 | 228 | 0 | 1 | 14 | 525 |
| Fri | 4 | 217 | 88 | 2 | 5 | 18 |  | 439 | 374 | 0 | 1 | 14 | 828 | 738 | 488 | 0 | 3 | 36 | 1,265 |
| Sat | 5 | 29 | 45 | 1 | 0 | 22 |  | 59 | 191 | 0 | 0 | 17 | 266 | 99 | 250 | 0 | 0 | 44 | 393 |
| Sun | 6 | 495 | 121 | 0 | 9 | 36 |  | 1,002 | 514 | 0 | 1 | 27 | 1,545 | 1,683 | 672 | 0 | 5 | 72 | 2,431 |
| Mon | 7 | 184 | 68 | 0 | 2 | 18 |  | 373 | 289 | 0 | 0 | 14 | 675 | 626 | 377 | 0 | 1 | 36 | 1,040 |
| Tue | 8 | 42 | 20 | 0 | 1 | 8 |  | 85 | 85 | 0 | 0 | 6 | 176 | 143 | 111 | 0 | 1 | 16 | 270 |
| Wed | 9 | 10 | 19 | 0 | 1 | 3 |  | 20 | 81 | 0 | 0 | 2 | 103 | 34 | 105 | 0 | 1 | 6 | 146 |
| Thu | 10 | 12 | 53 | 0 | 1 | 5 |  | 24 | 225 | 0 | 0 | 4 | 253 | 41 | 294 | 0 | 1 | 10 | 345 |
| Fri | 11 | 10 | 37 | 0 | 0 | 1 |  | 20 | 157 | 0 | 0 | 1 | 178 | 34 | 205 | 0 | 0 | 2 | 241 |
| Sat | 12 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sun | 13 | 14 | 14 | 2 | 0 | 1 |  | 28 | 60 | 0 | 0 | 1 | 89 | 48 | 78 | 0 | 0 | 2 | 128 |
| Mon | 14 | 7 | 17 | 0 | 2 | 0 |  | 14 | 72 | 0 | 0 | 0 | 87 | 24 | 94 | 0 | 1 | 0 | 119 |
| Tue | 15 | 1 | 0 | 2 | 0 | 0 |  | 2 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 4 |
| Wed | 16 | 40 | 42 | 0 | 0 | 6 |  | 81 | 179 | 0 | 0 | 5 | 264 | 136 | 233 | 0 | 0 | 12 | 381 |
| Thu | 17 | 78 | 80 | 0 | 0 | 2 |  | 158 | 340 | 0 | 0 | 2 | 499 | 265 | 444 | 0 | 0 | 4 | 713 |
| Fri | 18 | 0 | 0 | 0 | 0 | 1 |  | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 2 |
| Sat | 19 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sun | 20 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mon | 21 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tue | 22 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | , | 0 | 0 | 0 | 0 |
| Wed | 23 | 20 | 14 | 0 | 4 | 7 |  | 41 | 60 | 0 | 1 | 5 | 106 | 68 | 78 | 0 | 2 | 14 | 162 |
| Thu | 24 | 65 | 43 | 0 | 0 | 5 |  | 132 | 183 | 0 | 0 | 4 | 318 | 221 | 239 | 0 | 0 | 10 | 470 |
| Fri | 25 | 143 | 88 | 1 | 3 | 12 |  | 290 | 374 | 0 | 0 | 9 | 673 | 486 | 488 | 0 | 2 | 24 | 1,000 |
| Sat | 26 | 111 | 74 | 1 | 0 | 12 |  | 225 | 315 | 0 | 0 | 9 | 548 | 377 | 411 | 0 | 0 | 24 | 812 |
| Sun | 27 | 59 | 63 | 1 | 2 | 18 |  | 119 | 267 | 0 | 0 | 14 | 401 | 201 | 349 | 0 | 1 | 36 | 587 |
| Mon | 28 | 13 | 23 | 1 | 2 | 6 |  | 26 | 98 | 0 | 0 | 5 | 129 | 44 | 128 | 0 | 1 | 12 | 185 |
| Tue | 29 | 2 | 8 | 0 | 1 | 2 |  | 4 | 34 | 0 | 0 | 2 | 40 | 7 | 44 | 0 | 1 | 4 | 56 |
| Wed | 30 | 2 | 1 | 1 | 0 | 1 |  | 4 | 4 | 0 | 0 | 1 | 9 | 7 | 6 | 0 | 0 | 2 | 15 |

October 2020

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  | High Sub |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | Small/Me <br> d (Left <br> Axis) | $\begin{array}{\|l\|l} \hline \text { Large } \\ \text { (right } \\ \text { axis) } \end{array}$ | Sail | Maybes | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Small/Me } \\ \text { d S (right } \\ \text { axis) } \end{array} \\ \hline \end{array}$ |  | $\begin{aligned} & \text { SmalI/Me } \\ & \text { d } \end{aligned}$ | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { d S } \end{aligned}$ | Low Sub | Small/Me d | Large | Sail | Maybes | Small/Me <br> dS |  |
|  |  |  |  |  |  |  | People on boat | 3 | 5 | 1 | 1 | 3 |  | 4 | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | \% Boats Fishing | 75\% | 80\% | 0\% | 10\% | 25\% |  | 90\% | 90\% | 10\% | 20\% | 50\% |  |
| thur | 1 | 24 | 12 | 1 | 1 | 5 |  | 54 | 48 | 0 | 0 | 4 | 106 | 86 | 65 | 0 | 0 | 10 | 162 |
| fri | 2 | 13 | 6 | 1 | 1 | 8 |  | 29 | 24 | 0 | 0 | 6 | 59 | 47 | 32 | 0 | 0 | 16 | 96 |
| sat | 3 | 130 | 58 | 0 | 1 | 44 |  | 293 | 232 | 0 | 0 | 33 | 558 | 468 | 313 | 0 | 0 | 88 | 870 |
| sun | 4 | 67 | 42 | 2 | 7 | 22 |  | 151 | 168 | 0 | 1 | 17 | 336 | 241 | 227 | 0 | 3 | 44 | 515 |
| mon | 5 | 12 | 7 | 0 | 1 | 5 |  | 27 | 28 | 0 | 0 | 4 | 59 | 43 | 38 | 0 | 0 | 10 | 91 |
| tue | 6 | 41 | 27 | 4 | 1 | 9 |  | 92 | 108 | 0 | 0 | 7 | 207 | 148 | 146 | 1 | 0 | 18 | 313 |
| wed | 7 | 7 | 3 | 0 | 0 | 5 |  | 16 | 12 | 0 | 0 | 4 | 32 | 25 | 16 | 0 | 0 | 10 | 51 |
| thu | 8 | 9 | 9 | 3 | 1 | 11 |  | 20 | 36 | 0 | 0 | 8 | 65 | 32 | 49 | 1 | 0 | 22 | 104 |
| fri | 9 | 130 | 36 | 0 | 0 | 16 |  | 293 | 144 | 0 | 0 | 12 | 449 | 468 | 194 | 0 | 0 | 32 | 694 |
| sat | 10 | 23 | 14 | 0 | 0 | 13 |  | 52 | 56 | 0 | 0 | 10 | 118 | 83 | 76 | 0 | 0 | 26 | 184 |
| sun | 11 | 39 | 33 | 0 | 1 | 19 |  | 88 | 132 | 0 | 0 | 14 | 234 | 140 | 178 | 0 | 0 | 38 | 357 |
| mon | 12 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tue | 13 | 0 | 8 | 1 | 0 | 0 |  | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 43 | 0 | 0 | 0 | 43 |
| wed | 14 | 40 | 13 | 0 | 3 | 10 |  | 90 | 52 | 0 | 0 | 8 | 150 | 144 | 70 | 0 | 1 | 20 | 235 |
| thu | 15 | 15 | 19 | 0 | 0 | 0 |  | 34 | 76 | 0 | 0 | 0 | 110 | 54 | 103 | 0 | 0 | 0 | 157 |
| fri | 16 | 1 | 4 | 1 | 0 | 0 |  | 2 | 16 | 0 | 0 | 0 | 18 | 4 | 22 | 0 | 0 | 0 | 25 |
| sat | 17 | 7 | 5 | 0 | 0 | 10 |  | 16 | 20 | 0 | 0 | 8 | 43 | 25 | 27 | 0 | 0 | 20 | 72 |
| sun | 18 | 33 | 34 | 0 | 1 | 2 |  | 74 | 136 | 0 | 0 | 2 | 212 | 119 | 184 | 0 | 0 | 4 | 307 |
| mon | 19 | 21 | 28 | 1 | 1 | 5 |  | 47 | 112 | 0 | 0 | 4 | 163 | 76 | 151 | 0 | 0 | 10 | 237 |
| tue | 20 | 25 | 32 | 0 | 3 | 3 |  | 56 | 128 | 0 | 0 | 2 | 187 | 90 | 173 | 0 | 1 | 6 | 270 |
| wed | 21 | 47 | 30 | 0 | 4 | 9 |  | 105 | 122 | 0 | 0 | 7 | 234 | 169 | 165 | 0 | 2 | 17 | 352 |
| thu | 22 | 25 | 22 | 2 | 2 | 2 |  | 56 | 88 | 0 | 0 | 2 | 146 | 90 | 119 | 0 | 1 | 4 | 214 |
| fri | 23 | 10 | 17 | 0 | 0 | 0 |  | 23 | 68 | 0 | 0 | 0 | 91 | 36 | 92 | 0 | 0 | 0 | 128 |
| sat | 24 | 70 | 41 | 1 | 1 | 2 |  | 158 | 164 | 0 | 0 | 2 | 323 | 252 | 221 | 0 | 0 | 4 | 478 |
| sun | 25 | 0 | 1 | 1 | 1 | 0 |  | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 6 |
| mon | 26 | 3 | 9 | 2 | 0 | 0 |  | 7 | 36 | 0 | 0 | 0 | 43 | 11 | 49 | 0 | 0 | 0 | 60 |
| tue | 27 | 11 | 3 | 1 | 0 | 2 |  | 25 | 12 | 0 | 0 | 2 | 38 | 40 | 16 | 0 | 0 | 4 | 60 |
| wed | 28 | 13 | 24 | 0 | 0 |  |  | 29 | 96 | 0 | 0 | 1 | 126 | 47 | 130 | 0 | 0 | 2 | 178 |
| thu | 29 | 2 | 3 | 0 | 2 | 0 |  | 5 | 12 | 0 | 0 | 0 | 17 | 7 | 16 | 0 | 1 | 0 | 24 |
| fri | 30 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sat | 31 | 1 | 7 | 0 | 1 | 0 | 0 | 2 | 28 | 0 | 0 | 0 | 30 | 4 | 38 | 0 | 0 | 0 | 42 |

November 2020

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | $\begin{aligned} & \text { Small/Me } \\ & \text { d (Left } \\ & \text { Axis) } \end{aligned}$ | $\begin{array}{\|l} \hline \text { Large } \\ \text { (right } \\ \text { axis) } \\ \hline \end{array}$ | Sail | Maybes | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { SmalI/Me } \\ \text { dS (right } \\ \text { axis) } \end{array} \\ \hline \end{array}$ |  | Small/Me d | Large | Sail | Maybes | Small/Me <br> dS | Low Sub | $\begin{aligned} & \text { Small/Me } \\ & \text { d } \end{aligned}$ | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \mathrm{d} \text { S } \\ & \hline \end{aligned}$ | High Sub |
|  |  |  |  |  |  |  | People on boat | 3 | 5 | 1 | 1 | 3 |  | 4 | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | $\begin{aligned} & \text { \% Boats } \\ & \text { Fishing } \end{aligned}$ | 75\% | 80\% | 0\% | 10\% | 25\% |  | 90\% | 90\% | 10\% | 20\% | 50\% |  |
| sun | 1 | 2 | 4 | 0 | 0 | 0 |  | 5 | 16 | 0 | 0 | 0 | 21 | 7 | 22 | 0 | 0 | 0 | 29 |
| mon | 2 | 0 | 1 | 0 | 0 | 0 |  | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 5 |
| tue | 3 | 2 | 2 | 5 | 2 | 0 |  | 5 | 8 | 0 | 0 | 0 | 13 | 7 | 11 | 1 | 1 | 0 | 20 |
| wed | 4 | 26 | 19 | 3 | 0 | 4 |  | 59 | 76 | 0 | 0 | 3 | 138 | 94 | 103 | 1 | 0 | 8 | 205 |
| thu | 5 | 53 | 30 | 3 | 3 | 8 |  | 119 | 120 | 0 | 0 | 6 | 246 | 191 | 162 | 1 | 1 | 16 | 371 |
| fri | 6 | 64 | 28 | 3 | 0 | 0 |  | 144 | 112 | 0 | 0 | 0 | 256 | 230 | 151 | 1 | 0 | 0 | 382 |
| sat | 7 | 126 | 43 | 0 | 3 | 14 |  | 285 | 172 | 0 | 0 | 11 | 467 | 455 | 232 | 0 | 1 | 28 | 717 |
| sun | 8 | 94 | 34 | 1 | 3 | 11 |  | 212 | 136 | 0 | 0 | 8 | 356 | 338 | 184 | 0 | 1 | 22 | 545 |
| mon | 9 | 51 | 17 | 2 | 2 | 5 |  | 115 | 68 | 0 | 0 | 4 | 187 | 184 | 92 | 0 | 1 | 10 | 287 |
| tue | 10 | 35 | 16 | 1 | 2 | 4 |  | 79 | 64 | 0 | 0 | 3 | 146 | 126 | 86 | 0 | 1 | 8 | 221 |
| wed | 11 | 2 | 2 | 1 | 0 | 0 |  | 5 | 8 | 0 | 0 | 0 | 13 | 7 | 11 | 0 | 0 | 0 | 18 |
| thu | 12 | 0 | - |  | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| fri | 13 | 5 | 4 | 3 | 2 | 0 |  | 11 | 16 | 0 | 0 | 0 | 27 | 18 | 22 | 1 | 1 | 0 | 41 |
| sat | 14 | 20 | 18 | 2 | 0 | 6 |  | 45 | 72 | 0 | 0 | 5 | 122 | 72 | 97 | 0 | 0 | 12 | 182 |
| sun | 15 | 1 | 0 | 0 | 0 | 0 |  | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 4 |
| mon | 16 | 1 | 1 | 0 | 0 | 0 |  | 2 | 4 | 0 | 0 | 0 | 6 | 4 | 5 | 0 | 0 | 0 | 9 |
| tue | 17 | 1 | 1 | 0 | 0 | 0 |  | 2 | 4 | 0 | 0 | 0 | 6 | 4 | 5 | 0 | 0 | 0 | 9 |
| wed | 18 | 5 | 0 | 0 | 0 | 0 |  | 11 | 0 | 0 | 0 | 0 | 11 | 18 | 0 | 0 | 0 | 0 | 18 |
| thu | 19 | 12 | 19 | 0 | 2 | 0 |  | 27 | 76 | 0 | 0 | 0 | 103 | 43 | 103 | 0 | 1 | 0 | 147 |
| fri | 20 | 3 | 3 | 0 | 0 | 0 |  | 7 | 12 | 0 | 0 | 0 | 19 | 11 | 16 | 0 | 0 | 0 | 27 |
| sat | 21 | 3 | 1 | 0 | 0 | 0 |  | 7 | 4 | 0 | 0 | 0 | 11 | 11 | 5 | 0 | 0 | 0 | 16 |
| sun | 22 | 1 | 6 | 0 | 2 | 0 |  | 2 | 24 | 0 | 0 | 0 | 26 | 4 | 32 | 0 | 1 | 0 | 37 |
| mon | 23 | 1 | 0 | 0 | 2 | 0 |  | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 1 | 0 | 4 |
| tue | 24 | 11 | 4 | 2 | 0 | 0 |  | 25 | 16 | 0 | 0 | 0 | 41 | 40 | 22 | 0 | 0 | 0 | 62 |
| wed | 25 | -7 | 6 | 0 | 1 | 0 |  | 16 | 24 | 0 | 0 | 0 | 40 | 25 | 32 | 0 | 0 | 0 | 58 |
| thu | 26 | 1 | 0 | 0 | 0 | 0 |  | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 4 |
| fri | 27 | 57 | 14 | 1 | 1 | 1 |  | 128 | 56 | 0 | 0 | 1 | 185 | 205 | 76 | 0 | 0 | 2 | 283 |
| sat | 28 | 32 | 16 | 1 | 1 | 4 |  | 72 | 64 | 0 | 0 | 3 | 139 | 115 | 86 | 0 | 0 | 8 | 210 |
| sun | 29 | 45 | 13 | 0 | 0 | 6 |  | 101 | 52 | 0 | 0 | 5 | 158 | 162 | 70 | 0 | 0 | 12 | 244 |
| mon | 30 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

December 2020

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | Small/Me <br> d (Left <br> Axis) | $\begin{array}{\|l\|l} \hline \text { Large } \\ \text { (right } \\ \text { axis) } \\ \hline \end{array}$ | Sail | Maybes | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Small/Me } \\ \text { dS (right } \\ \text { axis) } \end{array} \\ \hline \end{array}$ |  | $\begin{array}{\|l\|} \hline \text { Small/Me } \\ \text { d } \end{array}$ | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { dS } \end{aligned}$ | Low Sub | $\begin{aligned} & \text { Small/Me } \\ & \text { d } \\ & \hline \end{aligned}$ | Large | Sail | Maybes | Small/Me <br> d S | High Sub |
|  |  |  |  |  |  |  | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { People on } \\ \text { boat } \end{array} \\ \hline \end{array}$ | 3 | 5 | 1 | 1 | 3 |  | ${ }_{4}{ }^{4}$ | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | $\begin{aligned} & \text { \% Boats } \\ & \text { Fishing } \end{aligned}$ | 75\% | 80\% | 0\% | 10\% | 25\% |  | 90\% | 90\% | 10\% | 20\% | 50\% |  |
| tue | 1 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wed | 2 | 1 | 1 | 2 | 0 | 0 |  | 2 | 4 | 0 | 0 | 0 | 6 | 4 | 5 | 0 | 0 | 0 | 9 |
| thu | 3 | 13 | 16 | 2 | 2 | 1 |  | 29 | 64 | 0 | 0 | 1 | 94 | 47 | 86 | 0 | 1 | 2 | 136 |
| fri | 4 | 4 | 2 | 0 | 1 | 0 |  | 9 | 8 | 0 | 0 | 0 | 17 | 14 | 11 | 0 | 0 | 0 | 26 |
| sat | 5 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sun | 6 | 5 | 2 | 0 | 0 | 0 |  | 11 | 8 | 0 | 0 | 0 | 19 | 18 | 11 | 0 | 0 | 0 | 29 |
| mon | 7 | 6 | 5 | 0 | 1 | 1 |  | 14 | 20 | 0 | 0 | 1 | 34 | 22 | 27 | 0 | 0 | 2 | 51 |
| tue | 8 | 0 | 2 | 0 | 0 | 0 |  | 0 | 8 | 0 | 0 | 0 | 8 | 0 | 11 | 0 | 0 | 0 | 11 |
| wed | 9 | 2 | 8 | 0 | 0 | 0 |  | 5 | 32 | 0 | 0 | 0 | 37 | 7 | 43 | 0 | 0 | 0 | 50 |
| thu | 10 | 18 | 11 | 0 | 1 | 3 |  | 41 | 44 | 0 | 0 | 2 | 87 | 65 | 59 | 0 | 0 | 6 | 131 |
| fri | 11 | 31 | 10 | , | 1 | 1 |  | 70 | 40 | 0 | 0 | 1 | 111 | 112 | 54 | 0 | 0 | 2 | 168 |
| sat | 12 | 26 | 5 | O | O | 1 |  | 59 | 20 | 0 | 0 | 1 | 79 | 94 | 27 | 0 | 0 | 2 | 123 |
| sun | 13 | 29 | , | 0 | 0 | 0 |  | 65 | 16 | 0 | 0 | 0 | 81 | 104 | 22 | 0 | 0 | 0 | 126 |
| mon | 14 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tue | 15 | 0 | 1 | 1 | 2 | 0 |  | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 5 | 0 | 1 | 0 | 6 |
| wed | 16 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| thu | 17 | 0 | 0 | 0 | O | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| fri | 18 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sat | 19 | 37 | 7 | 0 | 0 | 2 |  | 83 | 28 | 0 | 0 | 2 | 113 | 133 | 38 | 0 | 0 | 4 | 175 |
| sun | 20 | 13 | 4 | , | 0 | 2 |  | 29 | 16 | 0 | 0 | 2 | 47 | 47 | 22 | 0 | 0 | 4 | 72 |
| mon | 21 | 12 | 8 | 0 | 0 | 0 |  | 27 | 32 | 0 | 0 | 0 | 59 | 43 | 43 | 0 | 0 | 0 | 86 |
| tue | 22 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wed | 23 | 41 | 2 | 0 | 0 | 1 |  | 92 | 8 | 0 | 0 | 1 | 101 | 148 | 11 | 0 | 0 | 2 | 160 |
| thu | 24 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| fri | 25 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sat | 26 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sun | 27 | 47 | 5 | 0 | 0 | 1 |  | 106 | 20 | 0 | 0 | 1 | 127 | 169 | 27 | 0 | 0 | 2 | 198 |
| mon | 28 | 5 | 3 | 0 | 1 | 0 |  | 11 | 12 | 0 | 0 | 0 | 23 | 18 | 16 | 0 | 0 | 0 | 35 |
| tue | 29 | 1 | 2 | 0 | 0 | 0 |  | 2 | 8 | 0 | 0 | 0 | 10 | 4 | 11 | 0 | 0 | 0 | 14 |
| wed | 30 | 24 | 1 | 0 | 0 | 1 |  | 54 | 4 | 0 | 0 | 1 | 59 | 86 | 5 | 0 | 0 | 2 | 94 |
| thu | 31 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

September 2021

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  | High Sub |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | Small/Me d (Left Axis) | $\left\lvert\, \begin{aligned} & \text { Large } \\ & \text { (right } \\ & \text { axis) } \end{aligned}\right.$ | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { d S (right } \\ & \text { axis) } \end{aligned}$ |  | Small/Me d | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { dS } \end{aligned}$ | Low Sub | $\begin{aligned} & \text { Small/Me } \\ & \text { d } \end{aligned}$ | Large | Sail | Maybes | Small/Me <br> dS |  |
|  |  |  |  |  |  |  | People on <br> boat | 3 | 5 | 1 | 1 | 3 |  | 4 | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | $\begin{aligned} & \text { \% Boats } \\ & \text { Fishing } \end{aligned}$ | 67.5\% | 85\% | 0\% | 15\% | 25\% |  | 85\% | 92.5\% | 10\% | 25\% | 50\% |  |
| wed | 1 | 5 | 11 | 1 | 1 | 3 |  | 10 | 47 | 0 | 0 | 2 | 59 | 17 | 61 | 0 | 1 | 6 | 85 |
| thu | 2 | 2 | 35 | 1 | 1 | 6 |  | 4 | 149 | 0 | 0 | 5 | 157 | 7 | 194 | 0 | 1 | 12 | 214 |
| fri | 3 | 30 | 41 | 2 | 2 | 7 |  | 61 | 174 | 0 | 0 | 5 | 241 | 102 | 228 | 0 | 1 | 14 | 345 |
| sat | 4 | 421 | 88 | 2 | 5 | 18 |  | 853 | 374 | 0 | 1 | 14 | 1241 | 1431 | 488 | 0 | 3 | 36 | 1959 |
| sun | 5 | 54 | 45 | , | 0 | 22 |  | 109 | 191 | 0 | 0 | 17 | 317 | 184 | 250 | 0 | 0 | 44 | 478 |
| mon | 6 | 147 | 121 | 0 | 9 | 36 |  | 298 | 514 | 0 | 1 | 27 | 840 | 500 | 672 | 0 | 5 | 72 | 1248 |
| tue | 7 | 148 | 68 | 0 | 2 | 18 |  | 300 | 289 | 0 | 0 | 14 | 603 | 503 | 377 | 0 | 1 | 36 | 918 |
| wed | 8 | 7 | 20 | 0 | 1 | 8 |  | 14 | 85 | 0 | 0 | 6 | 105 | 24 | 111 | 0 | 1 | 16 | 151 |
| thu | 9 | 0 | 19 | 0 | 1 | 3 |  | 0 | 81 | 0 | 0 | 2 | 83 | 0 | 105 | 0 | 1 | 6 | 112 |
| fri | 10 | 1 | 53 | 0 | 1 | 5 |  | 2 | 225 | 0 | 0 | 4 | 231 | 3 | 294 | 0 | 1 | 10 | 308 |
| sat | 11 | 147 | 37 | 0 | 0 | 1 |  | 298 | 157 | 0 | 0 | 1 | 456 | 500 | 205 | 0 | 0 | 2 | 707 |
| sun | 12 | 23 | 0 | 0 | 0 | 0 |  | 47 | 0 | 0 | 0 | 0 | 47 | 78 | 0 | 0 | 0 | 0 | 78 |
| mon | 13 | 43 | 14 | 2 | 0 | 1 |  | 87 | 60 | 0 | 0 | 1 | 147 | 146 | 78 | 0 | 0 | 2 | 226 |
| tue | 14 | 137 | 17 | 0 | 2 | 0 |  | 277 | 72 | 0 | 0 | 0 | 350 | 466 | 94 | 0 | 1 | 0 | 561 |
| wed | 15 | 10 | 0 | 2 | 0 | 0 |  | 20 | 0 | 0 | 0 | 0 | 20 | 34 | 0 | 0 | 0 | 0 | 34 |
| thu | 16 | 50 | 42 | 0 | 0 | 6 |  | 101 | 179 | 0 | 0 | 5 | 284 | 170 | 233 | 0 | 0 | 12 | 415 |
| fri | 17 | 0 | 80 | 0 | 0 | 2 |  | 0 | 340 | 0 | 0 | 2 | 342 | 0 | 444 | 0 | 0 | 4 | 448 |
| sat | 18 | 19 | 0 | 0 | 0 | 1 |  | 38 | 0 | 0 | 0 | 1 | 39 | 65 | 0 | 0 | 0 | 2 | 67 |
| sun | 19 | 43 | 0 | 0 | 0 | 0 |  | 87 | 0 | 0 | 0 | 0 | 87 | 146 | 0 | 0 | 0 | 0 | 146 |
| mon | 20 | 11 | 0 | 0 | 0 | 0 |  | 22 | 0 | 0 | 0 | 0 | 22 | 37 | 0 | 0 | 0 | 0 | 37 |
| tue | 21 | 13 | 0 | 0 | 0 | 0 |  | 26 | 0 | 0 | 0 | 0 | 26 | 44 | 0 | 0 | 0 | 0 | 44 |
| wed | 22 | 9 | 0 | 0 | 0 | 0 |  | 18 | 0 | 0 | 0 | 0 | 18 | 31 | 0 | 0 | 0 | 0 | 31 |
| thu | 23 | 0 | 14 | 0 | 4 | 7 |  | 0 | 60 | 0 | 1 | 5 | 65 | 0 | 78 | 0 | 2 | 14 | 94 |
| fri | 24 | 1 | 43 | 0 | 0 | 5 |  | 2 | 183 | 0 | 0 | 4 | 189 | 3 | 239 | 0 | 0 | 10 | 252 |
| sat | 25 | 137 | 88 | 1 | 3 | 12 |  | 277 | 374 | 0 | 0 | 9 | 661 | 466 | 488 | 0 | 2 | 24 | 980 |
| sun | 26 | 29 | 74 | 1 | 0 | 12 |  | 59 | 315 | 0 | 0 | 9 | 382 | 99 | 411 | 0 | 0 | 24 | 534 |
| mon | 27 | 27 | 63 | 1 | 2 | 18 |  | 55 | 267 | 0 | 0 | 14 | 336 | 92 | 349 | 0 | 1 | 36 | 478 |
| tue | 28 | 20 | 23 | 1 | 2 | 6 |  | 41 | 98 | 0 | 0 | 5 | 143 | 68 | 128 | 0 | 1 | 12 | 209 |
| wed | 29 | 3 | 8 | 0 | 1 | 2 |  | 6 | 34 | 0 | 0 | 2 | 42 | 10 | 44 | 0 | 1 | 4 | 59 |
| thu | 30 | 45 | 30 | 2 | 2 | 5 |  | 91 | 128 | 0 | 0 | 4 | 223 | 153 | 167 | 0 | 1 | 10 | 331 |

October 2021

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  | High Sub |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | $\begin{array}{\|l\|l} \hline \text { Small/Me } & \text { L } \\ \text { d (Left } & \text { ( } \\ \text { Axis) } & \text { a } \end{array}$ | $\begin{array}{\|l} \text { Large } \\ \text { (right } \\ \text { axis) } \end{array}$ | Sail | Maybes | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Small/Me } \\ \text { d S (right } \\ \text { axis) } \end{array} \\ \hline \end{array}$ |  | Small/Me d | Large | Sail | Maybes | $\begin{array}{\|l} \text { Small/Me } \\ \text { d S } \end{array}$ | Low Sub | Small/Me d | Large | Sail | Maybes | Small/Me <br> dS |  |
|  |  |  |  |  |  |  | People on boat | 3 | 5 | 1 | 1 | 3 |  | 4 | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | $\begin{array}{\|l} \hline \text { \% Boats } \\ \text { Fishing } \end{array}$ | 75\% | 80\% | 0\% | 10\% | 25\% |  | 90\% | 90\% | 10\% | 20\% | 50\% |  |
| fri | 1 | 61 | 36 | 1 | 2 | 4 |  | 137 | 144 | 0 | 0 | 3 | 284 | 220 | 194 | 0 | 1 | 8 | 423 |
| sat | 2 | 180 | 63 | 0 | 5 | 4 |  | 405 | 252 | 0 | 1 | 3 | 661 | 648 | 340 | 0 | 2 | 8 | 998 |
| sun | 3 | 39 | 12 | 0 | 7 | 4 |  | 88 | 48 | 0 | 1 | 3 | 139 | 140 | 65 | 0 | 3 | 8 | 216 |
| mon | 4 | 11 | 5 | 2 | 2 | 0 |  | 25 | 20 | 0 | 0 | 0 | 45 | 40 | 27 | 0 | 1 | 0 | 68 |
| tue | 5 | 71 | 30 | 2 | 3 | 2 |  | 160 | 120 | 0 | 0 | 2 | 282 | 256 | 162 | 0 | 1 | 4 | 423 |
| wed | 6 | 2 | 18 | 1 | 4 | 1 |  | 5 | 72 | 0 | 0 | 1 | 78 | 7 | 97 | 0 | 2 | 2 | 108 |
| thu | 7 | 14 | 15 | 3 | 1 | 3 |  | 32 | 60 | 0 | 0 | 2 | 94 | 50 | 81 | 1 | 0 | 6 | 138 |
| fri | 8 | 49 | 31 | 0 | 2 | 6 |  | 110 | 124 | 0 | 0 | 5 | 239 | 176 | 167 | 0 | 1 | 12 | 357 |
| sat | 9 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sun | 10 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mon | 11 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tue | 12 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wed | 13 | 12 | 21 | 1 | 1 | 3 |  | 27 | 84 | 0 | 0 | 2 | 113 | 43 | 113 | 0 | 0 | 6 | 163 |
| thu | 14 | 78 | 35 | 3 | 4 | 12 |  | 176 | 141 | 0 | 0 | 9 | 327 | 282 | 190 | 1 | 2 | 24 | 499 |
| fri | 15 | 223 | 60 | 1 | 6 | 10 |  | 502 | 240 | 0 | 1 | 8 | 750 | 803 | 324 | 0 | 2 | 20 | 1,149 |
| sat | 16 | 7 | 13 | 0 | 3 | 0 |  | 16 | 52 | 0 | 0 | 0 | 68 | 25 | 70 | 0 | 1 | 0 | 97 |
| sun | 17 | 7 | 5 | 1 | 3 | 4 |  | 16 | 20 | 0 | 0 | 3 | 39 | 25 | 27 | 0 | 1 | 8 | 62 |
| mon | 18 | 2 | 1 | 0 | 3 | 2 |  | 5 | 4 | 0 | 0 | 2 | 10 | 7 | 5 | 0 | 1 | 4 | 18 |
| tue | 19 | 1 | - 6 | 1 | 8 | 5 |  | 2 | 24 | 0 | 1 | 4 | 31 | 4 | 32 | 0 | 3 | 10 | 49 |
| wed | 20 | 30 | 26 | 1 | 5 | 4 |  | 68 | 104 | 0 | 1 | 3 | 175 | 108 | 140 | 0 | 2 | 8 | 259 |
| thu | 21 | 5 | 23 | 0 | 5 | 1 |  | 11 | 92 | 0 | 1 | 1 | 105 | 18 | 124 | 0 | 2 | 2 | 146 |
| fri | 22 | 18 | 10 | 2 | 3 | 4 |  | 41 | 40 | 0 | 0 | 3 | 84 | 65 | 54 | 0 | 1 | 8 | 128 |
| sat | 23 | 115 | 35 | 0 | 5 | 19 |  | 259 | 140 | 0 | 1 | 14 | 414 | 414 | 189 | 0 | 2 | 38 | 643 |
| sun | 24 | 103 | 36 | 1 | 4 | 4 |  | 232 | 144 | 0 | 0 | 3 | 379 | 371 | 194 | 0 | 2 | 8 | 575 |
| mon | 25 | 3 | 8 | 0 | 1 | 0 |  | 7 | 32 | 0 | 0 | 0 | 39 | 11 | 43 | 0 | 0 | 0 | 54 |
| tue | 26 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wed | 27 | 0 | 2 | 3 | 0 | 2 |  | 0 | 8 | 0 | 0 | 2 | 10 | 0 | 11 | 1 | 0 | 4 | 15 |
| thu | 28 | 0 | 2 | 2 | 1 | 0 |  | 0 | 8 | 0 | 0 | 0 | 8 | 0 | 11 | 0 | 0 | 0 | 12 |
| fri | 29 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sat | 30 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sun | 31 | 4 | 6 | 2 | 0 | 2 |  | 9 | 24 | 0 | 0 | 2 | 35 | 14 | 32 | 0 | 0 | 4 | 51 |

November 2021

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  | High Sub |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | Small/Me d (Left Axis) | $\begin{array}{\|l} \hline \begin{array}{l} \text { Large } \\ \text { (right } \\ \text { axis) } \end{array} \\ \hline \end{array}$ | Sail | Maybes | Small/Me <br> d S (right <br> axis) |  | $\begin{aligned} & \text { SmalI/Me } \\ & \mathrm{d} \end{aligned}$ | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { d S } \\ & \hline \end{aligned}$ | Low Sub |  | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { d S } \\ & \hline \end{aligned}$ |  |
|  |  |  |  |  |  |  | People on boat | 3 | 5 | 1 | 1 | 3 |  | 4 | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | $\begin{aligned} & \text { \% Boats } \\ & \text { Fishing } \end{aligned}$ | 75\% | 80\% | 0\% | 10\% | 25\% |  | 90\% | 90\% | 10\% | 20\% | 50\% |  |
| mon | 1 | 11 | 15 | 2 | 2 | 1 |  | 25 | 60 | 0 | 0 | 1 | 86 | 40 | 81 | 0 | 1 | 2 | 124 |
| tue | 2 | 58 | 22 | 1 | 7 | 5 |  | 131 | 88 | 0 | 1 | 4 | 223 | 209 | 119 | 0 | 3 | 10 | 341 |
| wed | 3 | 8 | 12 | 0 | 5 | 0 |  | 18 | 48 | 0 | 1 | 0 | 67 | 29 | 65 | 0 | 2 | 0 | 96 |
| thu | 4 | 17 | 6 | 1 | 3 | 3 |  | 38 | 24 | 0 | 0 | 2 | 65 | 61 | 32 | 0 | 1 | 6 | 101 |
| fri | 5 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sat | 6 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sun | 7 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mon | 8 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tue | 9 | 16 | 10 | 0 | 0 | 1 |  | 36 | 40 | 0 | 0 | 1 | 77 | 58 | 54 | 0 | 0 | 2 | 114 |
| wed | 10 | 29 | 22 | 0 | 4 | 6 |  | 65 | 88 | 0 | 0 | 5 | 158 | 104 | 119 | 0 | 2 | 12 | 237 |
| thu | 11 | 15 | 14 | 0 | 4 | 0 |  | 34 | 56 | 0 | 0 | 0 | 90 | 54 | 76 | 0 | 2 | 0 | 131 |
| fri | 12 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sat | 13 | 3 | 8 | 0 | 0 | 0 |  | 7 | 32 | 0 | 0 | 0 | 39 | 11 | 43 | 0 | 0 | 0 | 54 |
| sun | 14 | 14 | 7 | 1 | 3 | 4 |  | 32 | 28 | 0 | 0 | 3 | 63 | 50 | 38 | 0 | 1 | 8 | 98 |
| mon | 15 | 1 | 2 | 0 | 3 | 0 |  | 2 | 8 | 0 | 0 | 0 | 11 | 4 | 11 | 0 | 1 | 0 | 16 |
| tue | 16 | 4 | 10 | 0 | 3 | 2 |  | 9 | 40 | 0 | 0 | 2 | 51 | 14 | 54 | 0 | 1 | 4 | 74 |
| wed | 17 | 27 | 6 | 0 | 4 | 0 |  | 61 | 24 | 0 | 0 | 0 | 85 | 97 | 32 | 0 | 2 | 0 | 131 |
| thu | 18 | 0 | 1 | 0 | 3 | 0 |  | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 5 | 0 | 1 | 0 | 7 |
| fri | 19 | 0 | 0 | 1 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sat | 20 | 25 | 11 | 1 | 0 | 4 |  | 56 | 44 | 0 | 0 | 3 | 103 | 90 | 59 | 0 | 0 | 8 | 158 |
| sun | 21 | 44 | 15 | 2 | 5 | 2 |  | 99 | 60 | 0 | 1 | 2 | 161 | 158 | 81 | 0 | 2 | 4 | 246 |
| mon | 22 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tue | 23 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wed | 24 | 0 | 1 | 0 | 0 | 1 |  | 0 | 4 | 0 | 0 | 1 | 5 | 0 | 5 | 0 | 0 | 2 | 7 |
| thu | 25 | 6 | 0 | 0 | 1 | 0 |  | 14 | 0 | 0 | 0 | 0 | 14 | 22 | 0 | 0 | 0 | 0 | 22 |
| fri | 26 | 1 | 0 | 0 | 0 | 0 |  | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 4 |
| sat | 27 | 3 | 0 | 3 | 1 | 0 |  | 7 | 0 | 0 | 0 | 0 | 7 | 11 | 0 | 1 | 0 | 0 | 12 |
| sun | 28 | 14 | 4 | 1 | 2 | 2 |  | 32 | 16 | 0 | 0 | 2 | 49 | 50 | 22 | 0 | 1 | 4 | 77 |
| mon | 29 | 2 | 0 | 0 | 0 | 0 |  | 5 | 0 | 0 | 0 | 0 | 5 | 7 | 0 | 0 | 0 | 0 | 7 |
| tue | 30 | 1 | 2 | 0 | 1 | 0 |  | 2 | 8 | 0 | 0 | 0 | 10 | 4 | 11 | 0 | 0 | 0 | 15 |

December 2021

|  |  | Vessels |  |  |  |  |  | People Low |  |  |  |  |  | People High |  |  |  |  | High Sub |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | Date | Small/Me <br> d (Left <br> Axis) | $\begin{array}{\|l\|} \hline \text { Large } \\ \text { (right } \\ \text { axis) } \end{array}$ | Sail | Maybes | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { SmalI/Me } \\ \text { dS (right } \\ \text { axis) } \end{array} \\ \hline \end{array}$ |  | Small/Me d | Large | Sail | Maybes | $\begin{aligned} & \text { Small/Me } \\ & \text { dS } \end{aligned}$ | Low Sub | $\begin{aligned} & \text { Small/Me } \\ & \text { d } \end{aligned}$ | Large | Sail | Maybes | Small/Me <br> d S |  |
|  |  |  |  |  |  |  | People on boat | 3 | 5 | 1 | 1 | 3 |  | 4 | 6 | 2 | 2 | 4 |  |
|  |  |  |  |  |  |  | $\begin{aligned} & \text { \% Boats } \\ & \text { Fishing } \end{aligned}$ | 75\% | 80\% | 0\% | 10\% | 25\% |  | 90\% | 90\% | 10\% | 20\% | 50\% |  |
| wed | 1 | 21 | 10 | 0 | 2 | 0 |  | 47 | 40 | 0 | 0 | 0 | 87 | 76 | 54 | 0 | 1 | 0 | 130 |
| thu | 2 | 2 | 1 | 0 | 0 | 0 |  | 5 | 4 | 0 | 0 | 0 | 9 | 7 | 5 | 0 | 0 | 0 | 13 |
| fri | 3 | 2 | 1 | 2 | 3 | 0 |  | 5 | 4 | 0 | 0 | 0 | 9 | 7 | 5 | 0 | 1 | 0 | 14 |
| sat | 4 | 37 | 8 | 0 | 0 | 2 |  | 83 | 32 | 0 | 0 | 2 | 117 | 133 | 43 | 0 | 0 | 4 | 180 |
| sun | 5 | 5 | 4 | 1 | 0 | 0 |  | 11 | 16 | 0 | 0 | 0 | 27 | 18 | 22 | 0 | 0 | 0 | 40 |
| mon | 6 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| tue | 7 | 4 | 4 | 1 | 0 | 0 |  | 9 | 16 | 0 | 0 | 0 | 25 | 14 | 22 | 0 | 0 | 0 | 36 |
| wed | 8 | 4 | 2 | 0 | 0 | 0 |  | 9 | 8 | 0 | 0 | 0 | 17 | 14 | 11 | 0 | 0 | 0 | 25 |
| thu | 9 | 5 | 2 | 1 | 0 | 0 |  | 11 | 8 | 0 | 0 | 0 | 19 | 18 | 11 | 0 | 0 | 0 | 29 |
| fri | 10 | 14 | 2 | 0 | 1 | 0 |  | 32 | 8 | 0 | 0 | 0 | 40 | 50 | 11 | 0 | 0 | 0 | 62 |
| sat | 11 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sun | 12 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| mon | 13 | 7 | 10 | 0 | 0 | 0 |  | 16 | 40 | 0 | 0 | 0 | 56 | 25 | 54 | 0 | 0 | 0 | 79 |
| tue | 14 | 15 | 2 |  | 0 | 1 |  | 34 | 8 | 0 | 0 | , | 43 | 54 | 11 | 0 | 0 | 2 | 67 |
| wed | 15 | 4 | 8 |  | 0 | 0 |  | 9 | 32 | 0 | 0 | 0 | 41 | 14 | 43 | 1 | 0 | 0 | 58 |
| thu | 16 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| fri | 17 | 20 | 2 | 0 | 3 | 0 |  | 45 | 8 | 0 | 0 | 0 | 53 | 72 | 11 | 0 | 1 | 0 | 84 |
| sat | 18 | 26 | 4 | 0 | 0 | 2 |  | 59 | 16 | 0 | 0 | 2 | 76 | 94 | 22 | 0 | 0 | 4 | 119 |
| sun | 19 | 0 | 1 | 0 | 0 | 0 |  | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 5 |
| mon | 20 | 3 | 2 | 1 | 0 | 1 |  | 7 | 8 | 0 | 0 | 1 | 16 | 11 | 11 | 0 | 0 | 2 | 24 |
| tue | 21 | 18 | 4 | 0 | 0 | 0 |  | 41 | 16 | 0 | 0 | 0 | 57 | 65 | 22 | 0 | 0 | 0 | 86 |
| wed | 22 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| thu | 23 | 1 | 0 | 0 | 0 | 0 |  | 2 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 4 |
| fri | 24 | 7 | 0 | 0 | 0 | 0 |  | 16 | 0 | 0 | 0 | 0 | 16 | 25 | 0 | 0 | 0 | 0 | 25 |
| sat | 25 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| sun | 26 | 14 | 0 | 0 | 0 | 1 |  | 32 | 0 | 0 | 0 | 1 | 32 | 50 | 0 | 0 | 0 | 2 | 52 |
| mon | 27 | 12 | 0 | 1 | 0 | 0 |  | 27 | 0 | 0 | 0 | 0 | 27 | 43 | 0 | 0 | 0 | 0 | 43 |
| tue | 28 | 32 | 1 | 0 | 0 | 2 |  | 72 | 4 | 0 | 0 | 2 | 78 | 115 | 5 | 0 | 0 | 4 | 125 |
| wed | 29 | 20 | 4 | 0 | 0 | 1 |  | 45 | 16 | 0 | 0 | 1 | 62 | 72 | 22 | 0 | 0 | 2 | 96 |
| thu | 30 | 29 | 3 | 0 | 0 | 0 |  | 65 | 12 | 0 | 0 | 0 | 77 | 104 | 16 | 0 | 0 | 0 | 121 |
| fri | 31 | 73 | 3 | 0 | 0 | 1 |  | 164 | 12 | 0 | 0 | 1 | 177 | 263 | 16 | 0 | 0 | 2 | 281 |

