**Update log for Creel Application**

1. May 14, 2024 – initial push of Brook Beaverly’s creel planning tab.
2. June 6, 2024 – Dan’s fork with some ideas to streamline and tidy up parts of the planning tab and a few bug fixes.
   1. Bug-Winter quarter was getting 4 extra days instead of 2 extra for each strata because it is split by year. I added Qyear as a new year variable for picking dates and winter months of Jan and Feb were assigned the Qyear from the previous December’s year (i.e., year – 1), then I grouped on this variable when picking random sampling dates so only 2 extras were picked.
   2. Bug-occasionally, no target count times are produced (they were NA)
      1. This is occurring when random\_start\_time was exactly 300 less than end time (5h), which happens if runif(n()) is over 0.9949
         1. Fixed by deleting line checking if the time was < (endTime – 300) because with max runif(n()) value of 0.99999, the time will always be no greater than (endTime – 300), which allows 60 min for pressure count, 60 min between counts, and 60 more minutes for a final pressure count. There is no need for ifelse to produce NA values if time was exactly (endTime – 300)
         2. Also required Pressure\_count\_2 to be modified similarly (and no longer looking for na pressure\_count\_1)
   3. Moved military/standard time conversion outside main loop so it won’t recalculate dates just to convert between time formats...now handled in creelScheduleTimeFormated() reactive
      1. Also clean up all time conversions using my modified code that gets am/pm in all standard times and ensures military times have leading zeroes as needed
   4. Cleaned up data table display by using the creelScheduleTimeFormated() reactive code to select and then rename columns to be used in the data table and then used the output of this reactive as input for the renderDT statement.
      1. Got rid of extra variables used in calculations that user does not need to see and reorder data table that is displayed as follows: Quarter, date, dayName, shift, strata, start time, end time, direction, pressureCount1, pressureCount2
         1. This fixed issue where column order differed between the military and standard time display
      2. Renamed columns with more complete names that include spaces so the table displays well without messing up R naming conventions (ok to have names that are not very R compliant as we won’t do any more manipulation with this dataframe before displaying...so in future any edits of the creelScheduleTimeFormated() reactive should be made above the rename command)
   5. Set column width targets for several columns in data table (used columnDefffs option in datatable command) with long column labels to force them to line wrap rather than taking an inordinate amount of column space.
   6. Altered datatable to have 100 rows by default but can select from 50 to up to 400 using dropdown selector on interface.
   7. Use .groups= "drop\_last" (default action) for all summarize/summarise statements to avoid getting warning about overriding using .groups. This just helps keep the log clean so we can more easily find problems if they occur.
   8. Added lake name variable to data table
      1. Made some modifications so only one lake can be selected but no lake is selected by default, then used reactive value to show “No lake selected” until user picks a lake...this avoids error preventing display of datatable when no lake is yet selected.
   9. Altered download table to be the new table I created to display as data table so it matches what the user saw on screen (i.e., my code above altered the approach, so the data table being downloaded was now incorrect).
      1. This also fixed code to export table exporting wrong time codes (was using military time but with 2 digit hour and minutes as 2 digit decimal of an hour)
      2. Changed naming scheme to include lake name and start/end dates for entire creel
   10. Rearranged the boxes at the top of the page to make it take a bit less space and show more of the table on the screen when scrolled to the top of the page.