# **Improved Salmon and Trout Egg Counter Weekly Progress Report**

Report date: 5/15/2022

* **Last Week** 
  + Team Review
    - Water system ready to be mounted
    - Camera counts eggs and is integrated with the trigger
    - Going to assume that the disk we have is our final disk at this point
    - May also assume hopper will not be cut at this point
    - Buttons and switches working with screen, starting enclosure for user input stuff
    - Camera case mounted with camera
    - sensor armature ready and mounted, need to secure sensor now that it works for sure
    - Using headlamp for light currently, this might be our best bet
    - Agustin out for another week or so due to family emergency
  + Sydney
    - Went to EPL Thursday/Friday
    - Worked with sean to get camera and sensor trigger mounted and talking to each other
    - Started working on button/switch/screen enclosure
    - Mounted camera
    - Mounted trigger sensor… should we mount another sensor for egg counting?
    - Brought in headlamp for light - it works!
    - USB stick works for pics! Much faster than the pi. We will go with a stick, not a cord.
  + Sean
    - Getting parts ready for soldering button wires
    - Demonstrated the startup code with the buttons
    - Worked with trigger sensor to get it to work consistently (sensitivity is very finicky, very thin line of working correctly and not working)
    - Dealing with the camera code to pick up eggs correctly (it does fine reading the orange eggs, but struggles with dark red eggs. Putting light on the orange eggs pushes them out of range of the counter, so its a fine balancing act)
  + Agustin
    - -
  + Trueman
    - Mounted camera in case
    - Tested water system tubes for leaks
    - Drilled spray holes in water sprayer
    - Double checked how to wire the buttons for led capabilities vs basic operation
* **Next week**
  + Team Plan
  + Sydney
    - Fully mount sensor
    - Fully enclose buttons and switches and mount to the fully chassis
  + Sean
    - Enable auto exposure and just make sure to blast it with light for better exposure (modified code to check for motion blur & show what the camera sees to check for lighting issues)
    - Get buttons ready via soldering all the necessary wires
    - Probably will do more work in the EPL to get all the parts working nicely
  + Agustin
    - -
  + Trueman
    - Assist with mounting
    - Work on Final report
* **Blocked**
  + Team Blocks
  + Sydney
  + Sean
    - Lots of bug hunting, but the system does kind of work, but isn’t accurate atm. Also it's not at all waterproof or in the right enclosures.
  + Agustin
    - Family emergency
  + Trueman
    - -