Seed Traits - Count & Weight HIPS 2022

* There’s only one way to say it, this trait takes the longest
  + So do your best to get comfortable with the tasks and increase efficiency in ways like:
    - Trying to get the counter started up as soon as possible for any packet
    - Helping the initial seed get into the feeder groove of the feeder bowl so it reaches the counting chute faster
  + However, don’t push seed along down the chute – too much at a time will affect accuracy, you’re just helping to reduce by a few seconds by help the seed get to the chute faster
* Turn on the scale by pressing & holding the Zero button on the scale
* Turn on the seed counter (larger on/off toggle switch)
* Open programs (located on the desktop) to run in the background as you collect data
  + Winwedge – ohaus\_scale\_CR\_HIPS
  + Winwedge – seed\_counter\_TAB\_HIPS
* From Box, open up your Excel file: 6\_Seed\_Traits\_TEMPLATE.xlsx
* “Save As” & replace TEMPLATE with date & initials
  + example 6\_Seed\_Traits 11.04.22\_lc
* Record if you’re sitting at the left or right station in column F
* Check the dial settings on the seed counter
  + See the note on machine, each is a bit different (details are also in the data collection file, equipment worksheet)
  + Inside Panel
    - Sensitivity high vs low:
    - Sensitivity control:
    - Length Rejection:
  + Front Panel
    - FAST Dial set to:
    - SLOW Dial set to:
* Collect Data
  + During you shift
    - Save periodically
    - Make sure that the
      * Scale
        + The scale is in g
        + The scale is tared out \*with\* a bucket on it (ie the scale reads 0)
        + If you need to tare out the scale (with the bucket on it), just press and hold the Tare button
      * Counter
        + The seed counter was reset to 0 before you count a new packet
  + With the start of any new box, scan the BOX ID in column G
  + Pull out the whole ‘column’ of seed packets from the box onto the table – that is your ‘to do’ pile (you don’t have to finish them all in a shift 😊 )
    - Pulling a whole set of packets out will help to make sure that you collect data on all of the packets
    - Once a packet has data collected, it can go back into the box
    - \*\*\*PLEASE KEEP PACKETS IN ORDER (this will help packets from same row of the field be clustered together)
  + Scan your packet barcode
  + Check if there are any notes written on the packet to include in column E by entering “ x - seed spilled during shelling” - this option is listed above the column header
  + Carefully add your seed to the feeder bowl to avoid spilling seeds. Remove any cob parts if present
    - For larger packets, you might need to add only a portion of seed at a time to the feeder bowl to avoid seed getting ‘stuck’ in parts of the feeder bowl
    - (Once enough seed has moved out of the feeder bowl & been counted, you can refill / add more from the same packet)
  + Make sure
    - the side discharge chute is empty from the last packet (if any seed is present, just empty into the trash)
    - the counter is reset to 0 (press Clr on counter)
    - the bucket is ready to collect the seed under the counter
  + Start up the counter
    - Switch feeder switch to ‘on’ – this causes the feeder bowl to vibrate once the ‘count switch’ is activated
    - Switch count switch to ‘count’
  + If you need to stop the machine – switch the count switch to HOLD
    - If any seed drops into the side discharge chute be sure to add it back to the feeder bowl to have it counted
  + Once the feeder bowl is empty
    - Turn the switch to HOLD
    - Press the Fnc button to transmit data to computer
  + Dump the seed into bucket on the scale
  + Press ‘Print’ button on scale to transmit data to computer
  + If you forget to place the bucket that collects the counted seed at the seed counter and seed spills, you need to restart the seed counting so that the weight of the counted seed will be accurate
    - Switch the unit to ‘hold’
    - Place your collection bucket to collect the seeds
    - Reset the counter to 0
    - Once you’ve calmed down (because you’ll probably be mad) start the counting again by switching to ‘count’
* End of shift
  + Save and close the data collection file
  + Close the 2 winwedge programs
  + Sweep off the desk from the seeds and bits of cob
  + Turn off scale by press and holding the Zero button
  + Turn off the seed counter by switching the main power on/off button
  + Log out of Box 😊