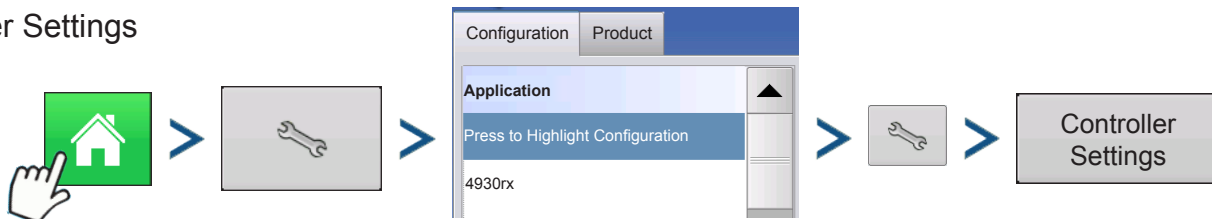


Create Configuration



Enter Settings



There is a tab for every channel of control with Control Valve Configurations and related settings.

Valve Response 1

fast speed of valve, decrease to slow response time
default = 40%

Valve Response 2

slow speed of valve, decrease to slow response time
default = 8%

Response Threshold

point where system switches between using
Response 1 and Response 2, increase to slow
response time, default = 15

Allowable Error

error allowed before making rate control adjustments

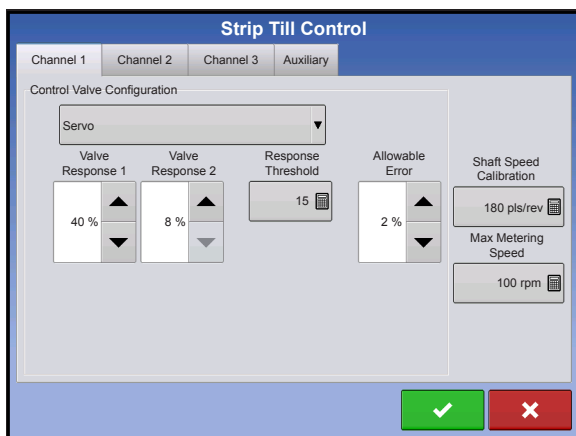
Shaft Speed Calibration

pulses/revolution of metering shaft

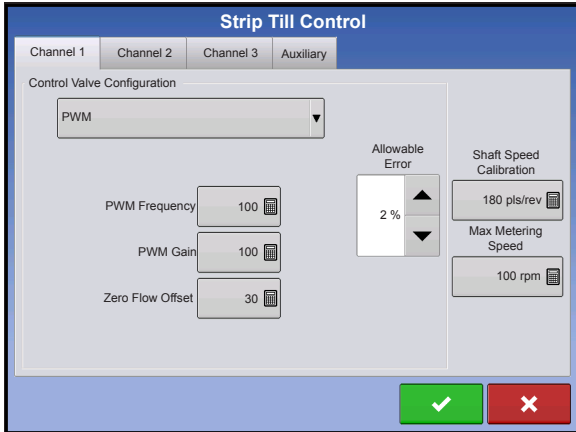
Max Metering Speed

maximum allowable RPM of metering system

Servo Valve



PWM Valve



PWM Frequency

frequency valve is pulsed at, settings come from manufacturer, typical range: 100-125 Hz

PWM Gain

decrease to slow response time

Zero Flow Offset

duty cycle used to start rotating meter shaft, metering system will not turn off if setting is too high, default = 30

Allowable Error

error allowed before making rate control adjustments

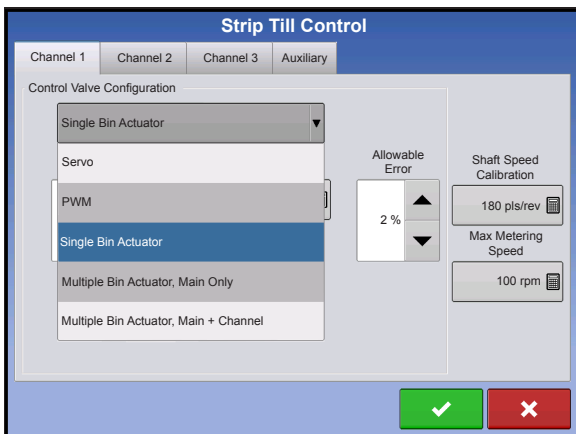
Shaft Speed Calibration

pulses/revolution of metering shaft

Max Metering Speed

maximum allowable RPM of metering system

Linear Actuator/ Clutch Settings



Single Bin Actuator

one actuator controlling product

Multiple Bin Actuator, Main only

up to 3 actuators plus one main drive clutch controlling product

Multiple Bin Actuator, Main + Channel

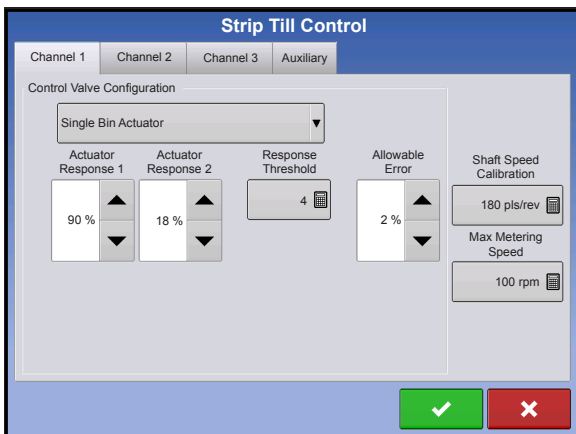
up to 3 actuators, one main drive clutch, and maximum of 3 meter clutches controlling product

IMPORTANT: When using linear actuator, all channels must be set to the same control valve configuration regardless if channels are not in use.

Note: Additional information on Actuator/Clutch Logic can be found in the display user manual.

NOTE: Settings and control characteristics are the same for all three types of Linear Actuator Control Valve Configurations.

Actuator



Actuator Response 1

fast speed of actuator, decrease to slow response time, default = 90%

Actuator Response 2

slow speed of actuator, decrease to slow response time, default = 18%

Response Threshold

point where system switches between using Actuator Response 1 and Actuator Response 2, increase to slow response time, default = 4

Allowable Error

error allowed before making rate control adjustments

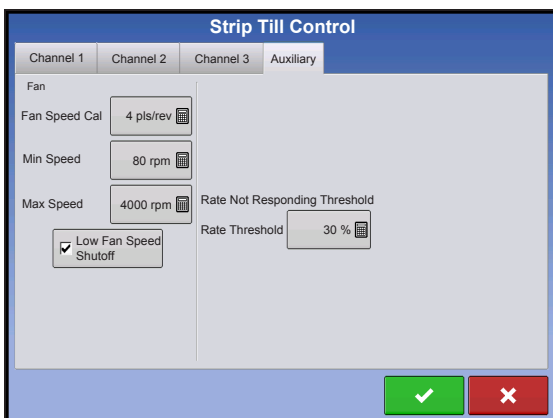
Shaft Speed Cal

pulses/revolution of metering shaft

Max Conveyor Speed

maximum allowable RPM of metering system

Auxiliary tab



Fan Speed Calibration

pulses/revolution of blower fan

Min Speed

user entered minimum allowable fan RPM

Max Speed

user entered maximum allowable fan RPM

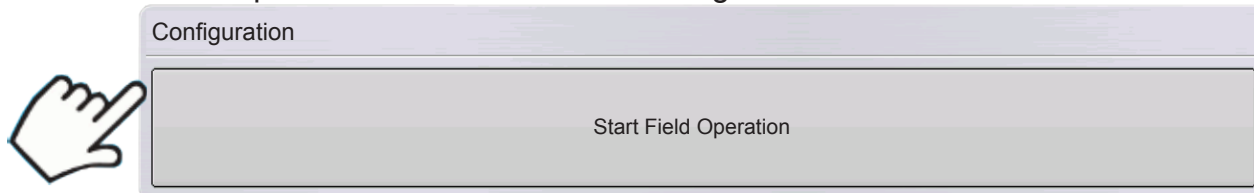
Low Fan Speed Shutoff

application is suspended if fan RPM drops below minimum speed setting, when selected

Rate Threshold

percent difference between actual and target rate

To start the Field Operation Wizard and load a configuration:

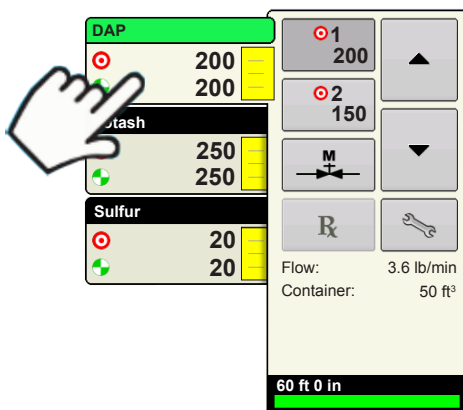


To view run screen:



Product Control Toolbox

To change values shown on Product Tab and in Product Control Toolbox go to the next page where the Rate Control Settings screen is explained.



Target Rate

the desired amount of product to apply



Actual Rate

actual rate of product being applied as determined by the flow sensor



Product in Bin



Target Rate #1 & #2

preset application rates that allow a quick change between rates



Manual Valve Control

allows operator manual control of valve



Prescription

allows rates to be determined by a loaded prescription



Up and Down Arrows

allow rates to be adjusted manually

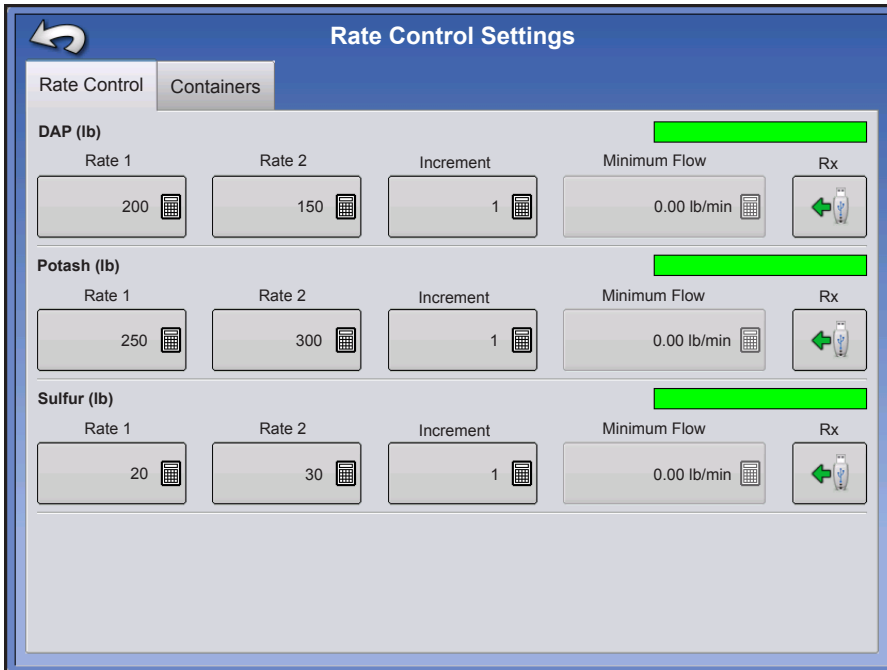
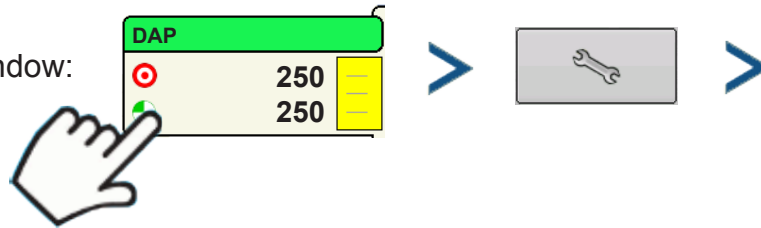


Settings button

opens Rate Control Settings screen (explained on next page)

Application Configuration

To access the Rate Control Settings window:



Rate 1 and Rate 2
allows operator to set desired target rates


Increment
values used when using up and down arrows in the Product Control Toolbox

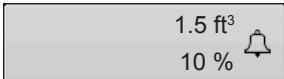
Rx
press to load a map-based prescription file



 **Bin Full**
press to fill container

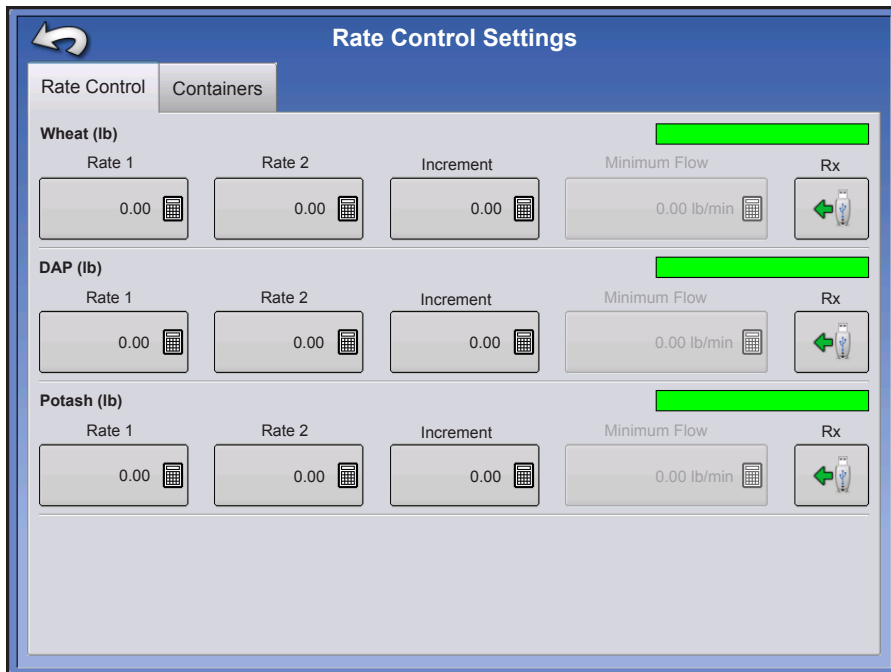
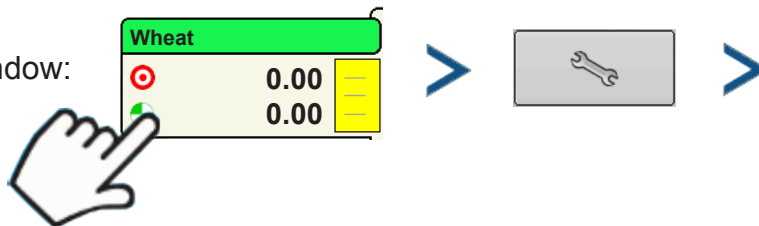
 **Bin Partially Filled**
press to specify container amount

 **Bin Empty**
press to empty container

 **Tank Alarm Setting**
can set % remaining or amount remaining for low container alarm

Seeding Configuration

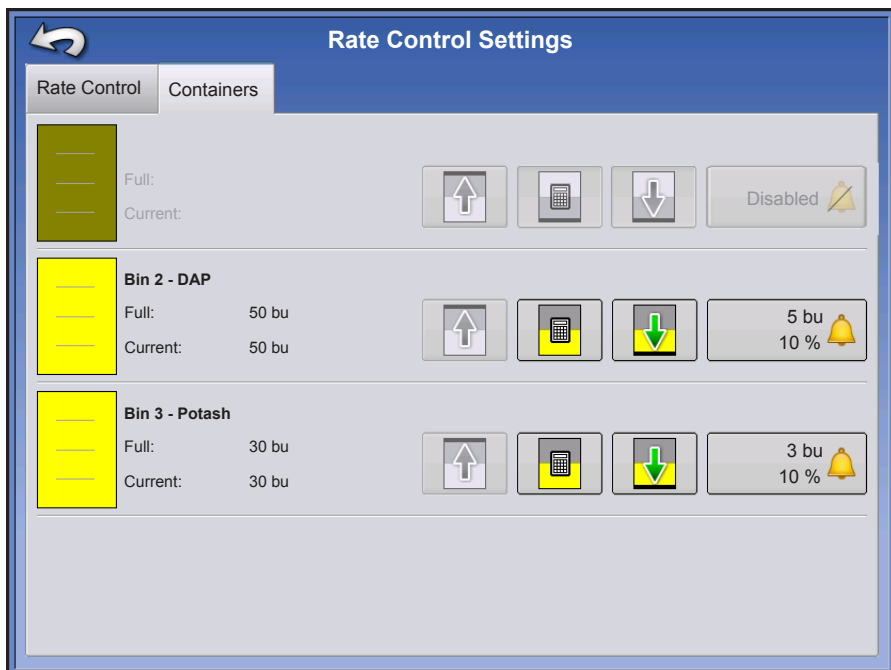
To access the Rate Control Settings window:



Rate 1 and Rate 2
allows operator to set desired target rates


Increment
values used when using up and down arrows in the Product Control Toolbox


Rx
press to load a map-based prescription file

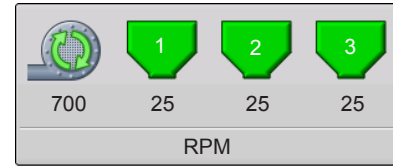
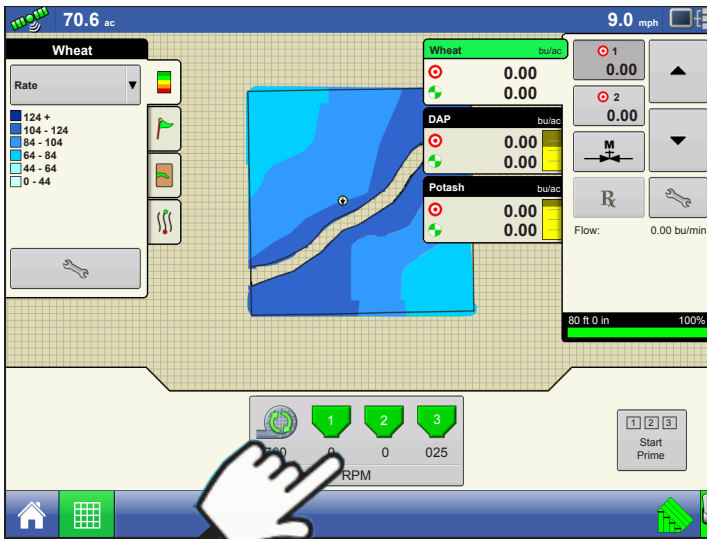


 **Bin Full**
press to fill container

 **Bin Partially Filled**
press to specify container amount

 **Bin Empty**
press to empty container

 **Tank Alarm Setting**
can set % remaining or amount remaining for low container alarm



Strip Till Control button

- on/off state of control channel
- shaft speed RPM
- fan speed RPM

Press button to display Strip Till Control window.

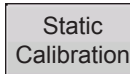


Product Density

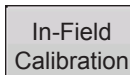
value (lb/ft³), is stored with each product, use numeric keypad to edit

Conveyor Rate

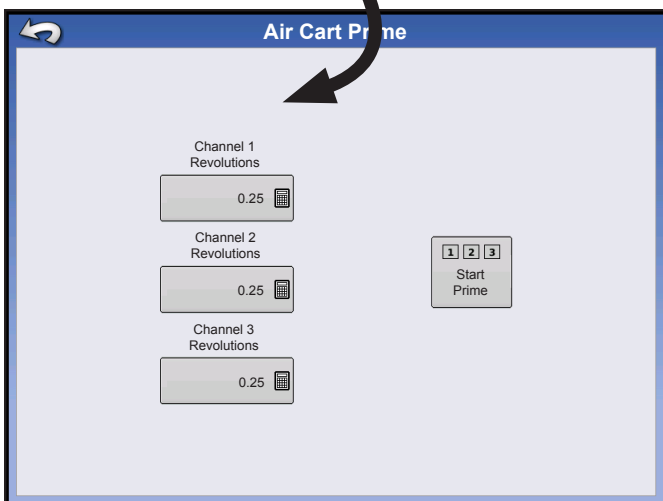
volume of product dispensed (ft³/rev) by one revolution of the meter drive shaft



performs automated routine to calibrate each metering circuit while machine is stationary



performs automated routine to adjust the calibration number for the selected metering circuit if there is a difference between the amount of product logged compared to what was actually applied



Press the Prime button to access the Air Cart Prime window.

User defined revolutions necessary to prime meter shafts.

Independent settings for each metering circuit.