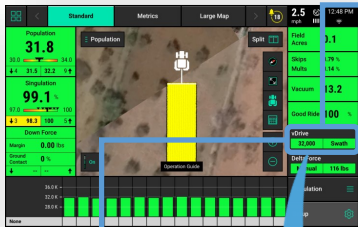


20|20 GEN 3—VDRIVE CONTROL SCREEN [2020.0.X SOFTWARE]



The **vDrive Control Button** shows the status of the system. If the **Control Button** is not on the **Home Page** it will need to be added.

vDrive Control Button Population Legend

Variable – A seeding prescription is assigned and the vDrive system is in variable rate mode.

Multiple—the vDrive system is in manual mode and there are multiple rate sections configured

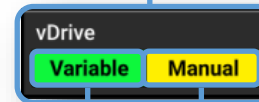
Rate Off—Unable to plant because the master plant switch is in the down position.

A Number is Displayed – the vDrive system is in manual mode with only a single rate section. The number that is displayed is the commanded manual population rate for that rate section.

Green—System is functional and has a commanded rate

Yellow—There is a prescription assigned to the active field, but the system is set to plant a manual rate.

Red—Unable to plant.



vDrive Control Button Swath Legend

Green—Swath Control is enabled and set to automatic mode

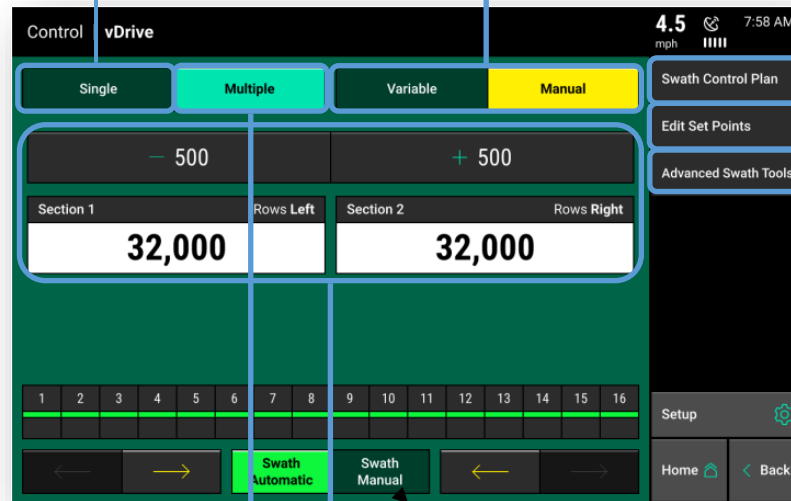
Yellow—Swath Control is enabled and set to manual mode

Red—Swath Control is disabled due to the swath switch being in the off position on the Cab Control Module or due to coverage.

Button Press

If a seeding prescription is assigned to the active field, **Variable** mode will control to the seeding prescription. **Manual** mode ignores the assigned seeding prescription and continues to plant at the assigned manual rate.

Single—assigns the same population rate to all rows. Select a preset population from the list of population set points displayed on the screen (configure this list using the “**Edit Set Points**” button on the right hand side of the screen) and use the + or - buttons to increase the rate.



Multiple - Allows assignment of different populations to multiple **Rate Sections** that were configured during the vDrive Setup.

Adjust Population—Use the + and - buttons to adjust the populations up or down the same amount for each **Rate Section**, or tap on each population to manually enter a new population for each **Rate Section** (requires multiple rate sections to be set up) See **vDrive 2020 Operators Manual**.

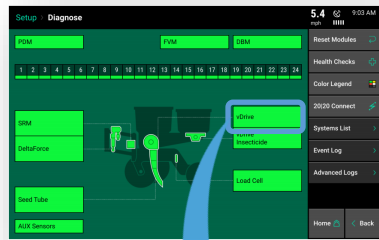
Selects components the planter will swath off to, including **Field Boundary, Inner Boundary, Map Coverage, and Simulated Headlands**.

Allows editing of population set points.

Advanced Swath Tools includes creating **Boundary** and **Simulated Headlands**, as well as enabling **Draw Coverage Always**.

vDrive

20|20 GEN 3—VDRIVE DIAGNOSE SCREEN [2020.0.X SOFTWARE]



START HERE

Diagnose

1

Navigate to **Diagnose Page** from the **Home Screen (Setup > Diagnose)**, touch the **vDrive** button on the row unit schematic to access the **vDrive Level 2 Diagnose Page**.

2

Button Press

Setup > Diagnose > vDrive

5.4 mph 9:03 AM

Row	Population		RPM		Stability	Supply Volts	Drive Amps	Duty Cycle
	Actual	Cmd	Actual	Cmd				
1	25,015	25,000	24.8	24.8	99%	11.9	0.48	23%
2	25,020	25,000	24.8	24.8	99%	11.9	0.48	23%
3	25,010	25,000	24.8	24.8	99%	11.9	0.48	23%
4	25,010	25,000	24.9	24.8	99%	11.9	0.48	23%
5	25,135	25,000	24.8	24.8	99%	11.9	0.48	23%
6	25,135	25,000	24.9	24.8	99%	11.9	0.48	23%
7	25,010	25,000	24.8	24.8	99%	11.9	0.48	23%
8	25,075	25,000	24.8	24.8	99%	11.9	0.48	23%
9	24,950	25,000	24.9	24.8	99%	11.9	0.48	23%
10	25,080	25,000	24.8	24.8	99%	11.9	0.48	23%
11	25,015	25,000	24.9	24.8	99%	11.9	0.48	23%
12	25,005	25,000	24.9	24.8	99%	11.9	0.48	23%
13	24,950	25,000	24.8	24.8	99%	11.9	0.48	23%

Reset Modules

vDrive Health Checks

DeltaForce

SRM

Seed Tube

vDrive

vDrive Insecticide

FurrowForce

Home < Back

Lift State Lowered

Radar Speed 6.6 mph

GPS Speed 5.5 mph

FWD Accel 0.000 ft/s/s

Master Plant On

Turn Rate 0.00 deg/s

Population Actual - This is the measured population the meter is actually planting as reported by the seed tube sensors. Rows that say **"Not Apply"** indicates these rows are not planting.

Population Command - The target population set in vDrive Control.

RPM Command - The RPM of the meter needed to reach the target population.

RPM Actual - The actual RPM of the vSet meter.

Stability - Measures the variance of the drag on the motor. The higher the stability percentage the smoother the vDrive motor will be turning.

Supply Volts - The amount of volts being sent to the vDrive motor. Average range of supply volts - 12-15 volts

Drive Amps - The amperage the vDrive is using while in operation.

Duty Cycle - The percent of time that power is commanded on where the on/off cycles are occurring at 35 kHz.

Shortcuts to components required for the function of vDrive. Click on any button to access settings screen for each component.