

All Rows

Displays the planter average for the four display items: Population, Spacing Quality, Singulation, and Skips and Doubles.

All Rows

Population

Displays the average population for the planter, or selected sections of the planter, along with the highest and lowest population row.

| | |
|-------------------|--------------|
| Population | 32000 |
| High Row: | 1: 32000 |
| Low Row: | 1: 32000 |

Spacing Quality

Displays the average spacing quality for the planter, or selected sections of the planter.

Spacing quality is a measure of the percent of seeds being properly placed so that the spacing is as expected in the seed trench.

| | |
|------------------|--------|
| Spacing Quality: | 95.5 % |
| Seed Spacing: | 6.3 in |

Home button



Map View button



Advanced Seed Monitoring button

Press button to view Planter Performance screen or Row Performance screen.



Planter Performance screen

Screen Display Information for All Rows

Hydraulic Drive

Displays the drive status, drive RPM, and target population for the hydraulic drive. There can be up to three displayed. Pressing the hydraulic drive channel will show the average of that section of the planter for the four display items at the bottom of the screen.

| | |
|-----------------|---------------|
| DKC53-45 | 59 rpm |
| | 32000 sds/ac |

Seed Monitor Setup

Pressing this button brings up Seed Monitor Options screen.



Singulation

Displays the average Singulation for the planter, or selected sections of the planter, along with the highest and lowest rows.

Singulation is a measure of the percent of seeds being properly metered so that one and only one seed drops from each seed cell of the seed meter.

| | |
|--------------------|---------------|
| Singulation | 94.5 % |
| High Row: | 1: 94.5 % |
| Low Row: | 1: 94.5 % |

Skips and Doubles

Displays the average skips and doubles for the planter or selected sections of the planter.

Skips are a measure of the percentage of seed expected to be planted but that do not plant due to a seed not being dropped by the seed meter.

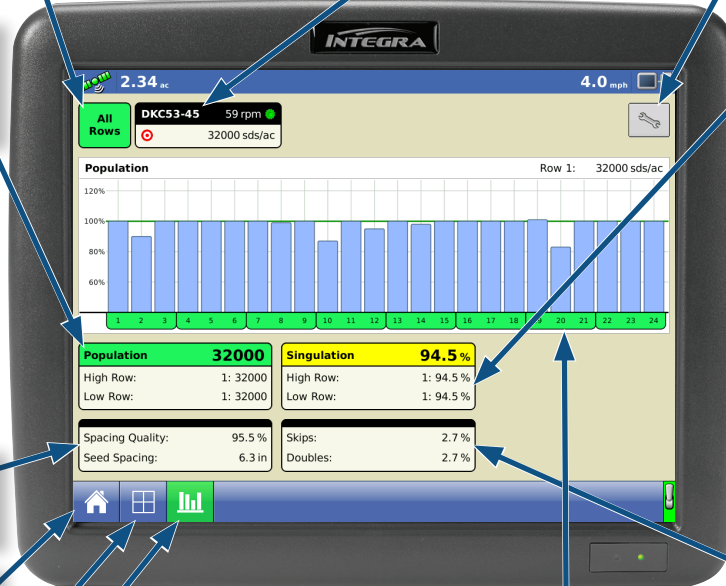
Doubles are a measure of the percentage of seed expected to be planted individually but instead two or more are dropped by the seed meter.

| | |
|----------|-------|
| Skips: | 2.7 % |
| Doubles: | 2.7 % |

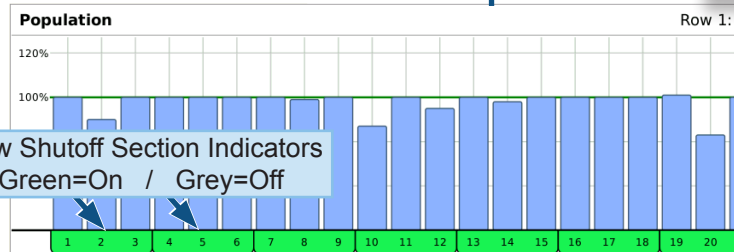
Bar Graph

Displays population, singulation, spacing quality, skips, and doubles, as selected by the operator.

Pressing on the desired population, singulation, or spacing will select the corresponding bar graph.



Row Shutoff Section Indicators
Green=On / Grey=Off

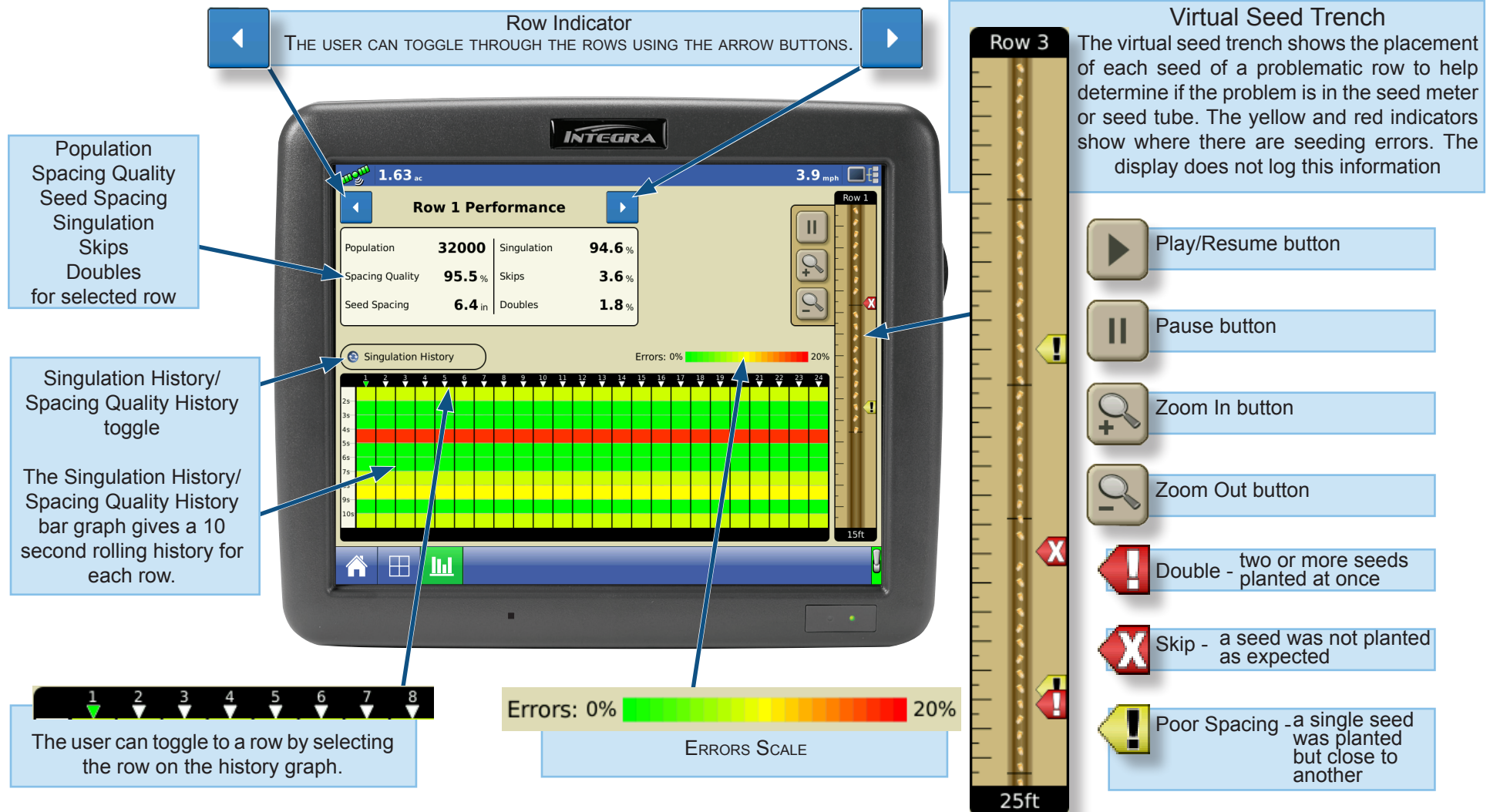


Row Performance screen

The Row Performance screen displays information on specific rows.



Press Advanced Seed Monitoring button to view Advance Seed Monitoring screen with seed trench.



Seed Monitor Options screen

The Seed Monitor Options screen adjust Seed Tube Monitor Module alarm thresholds.



Pressing this button, on the Planter Performance screen, brings up Seed Monitor Options screen.

Gain shows the population adjust value used to adjust the population if the seed tube is not sensing the actual seed population.

Seed Monitor Options

Display Options | Table View

Gain: 1

Advanced

Thresholds

Singulation Alarm: 98.5 %

Spacing Alarm: 93 %

Alarms: ☒ Ignore seed alarms when row clutches turn off

For the correct Gain setting for your operation, please refer to your planter's operator manual. For Corn Gain values should be set to 1.

Note: Gain setting is not crop specific.

Advanced Thresholds
-Double Seed threshold
-Poor Spacing threshold

Singulation Alarm

Spacing Alarm

Ignore seed alarms when row clutches turned off check box

Table View tab shows seeds per acre and seeds per second for each row. (Generally used for diagnostics)

Seed Monitor Options

Display Options | Table View

Seed Sensors

| | sds/sec | sds/ac |
|----|---------|--------|
| 14 | 11 | 31986 |
| 15 | 11 | 31986 |
| 16 | 11 | 31986 |
| 17 | 11 | 31986 |
| 18 | 11 | 31986 |
| 19 | 11 | 31986 |
| 20 | 11 | 31986 |
| 21 | 11 | 31986 |
| 22 | 11 | 31986 |
| 23 | 11 | 31986 |
| 24 | 11 | 31986 |

Seed Monitor Alarms screen

Press the Alarm button on the Seed Monitor Option screen, above, to access the Seed Monitor Alarms screen.

High and Low buttons assign a percentage of error that will trigger the rate alarm.

The Disable High and Disable Low buttons deactivate the respective high or low rate alarms.

The Select All button selects all rows so that you may change the alarm threshold for the entire group.

Seed Monitor Alarms

| Row | Low | High |
|-----|-----|------|
| 1 | 50% | 150% |
| 2 | 50% | 150% |
| 3 | 50% | 150% |
| 4 | 50% | 150% |
| 5 | 50% | 150% |
| 6 | 50% | 150% |
| 7 | 50% | 150% |
| 8 | 50% | 150% |

High, Low, Disable High, Disable Low, Select All

✓ ✗



Advanced Seed Monitoring

ASM Recommended Thresholds

| Row Spacing | | | | | | | | | Dbls Threshold | Spacing Threshold |
|-------------|---------|---------|--------|--------|--------|--------|--------|--------|-------------------|----------------------|
| 15 | 18 | 20 | 22 | 28 | 30 | 36 | 38 | 40 | | |
| 139,392 | 116,160 | 104,544 | 95,040 | 74,674 | 69,696 | 58,080 | 55,023 | 52,272 | 1.5 | 2.5 |
| 119,479 | 99,566 | 89,609 | 81,463 | 64,007 | 59,739 | 49,783 | 47,163 | 44,805 | 1.5 | 2.5 |
| 104,544 | 87,120 | 78,408 | 71,280 | 56,006 | 52,272 | 43,560 | 41,267 | 39,204 | 1.7 | 2.5 |
| 92,928 | 77,440 | 69,696 | 63,360 | 49,783 | 46,464 | 38,720 | 36,682 | 34,848 | 2.0 | 3 |
| 83,635 | 69,696 | 62,726 | 57,024 | 44,805 | 41,818 | 34,848 | 33,014 | 31,363 | 2.3 | 3.5 |
| 76,032 | 63,360 | 57,024 | 51,840 | 40,731 | 38,016 | 31,680 | 30,013 | 28,512 | 2.6 | 4 |
| 69,696 | 58,080 | 52,272 | 47,520 | 37,337 | 34,848 | 29,040 | 27,512 | 26,136 | 2.9 | 4.5 |
| 64,335 | 53,612 | 48,251 | 43,865 | 34,465 | 32,167 | 26,806 | 25,395 | 24,126 | 3.2 | 5 |
| 59,739 | 49,783 | 44,805 | 40,731 | 32,003 | 29,870 | 24,891 | 23,581 | 22,402 | 3.5 | 5.5 |
| 55,757 | 46,464 | 41,818 | 38,016 | 29,870 | 27,878 | 23,232 | 22,009 | 20,909 | 3.8 | 6 |
| 52,272 | 43,560 | 39,204 | 35,640 | 28,003 | 26,136 | 21,780 | 20,634 | 19,602 | 4.1 | 6.5 |
| 49,197 | 40,998 | 36,898 | 33,544 | 26,356 | 24,599 | 20,499 | 19,420 | 18,449 | 4.5 | 7 |
| 46,464 | 38,720 | 34,848 | 31,680 | 24,891 | 23,232 | 19,360 | 18,341 | 17,424 | 4.5 | 7 |
| 44,019 | 36,682 | 33,014 | 30,013 | 23,581 | 22,009 | 18,341 | 17,376 | 16,507 | 4.5 | 7 |
| 41,818 | 34,848 | 31,363 | 28,512 | 22,402 | 20,909 | 17,424 | 16,507 | 15,682 | 4.5 | 7 |
| Population | | | | | | | | | | |

- Singulation Alarm Threshold: 98%

- Spacing Alarm Threshold: 98%

* The system will alert the operator with a yellow flashing box on the Planter Performance screen identifying the mis-performing function.

