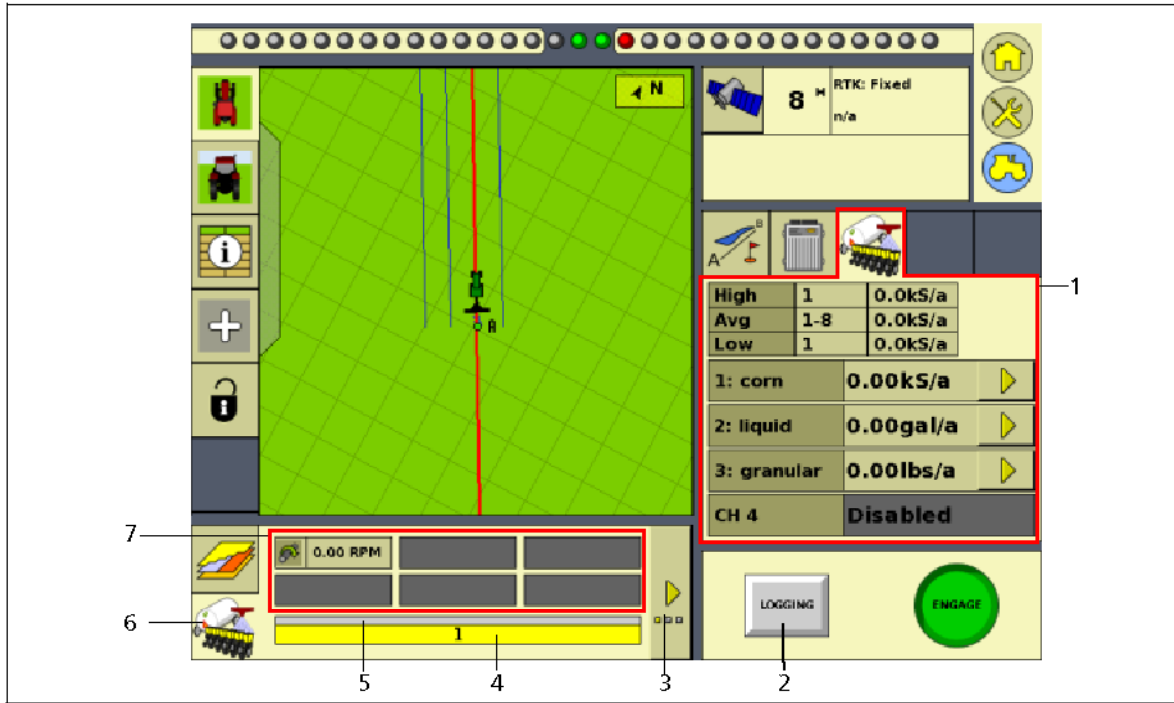


## Operating a planter or drill



**WARNING** – When the implement is down and the master switch is On, the machine is fully operational. Take all necessary precautions to ensure user safety. Failure to do so could result in injury or death.

When you are controlling a planter or drill with the Tru Application Control plugin, several new items appear on the Run screen:



Item	Description
1	Planter tab
2	Logging on/off button
3	Planter row details button
4	Channel-to-row assignment bar
5	Row status bar
6	Row and sensor information tab
7	Additional sensor readings

## Turning the planter on or off

### Implement lift switch installed

If an implement lift switch is *not* installed, see [page 403](#).

To plant seed when an optional implement lift switch is installed, you must engage both the *master switch* and the *implement lift switch*.

When the master switch is engaged, the **Logging** button is engaged. When the implement lift switch is engaged so that the implement is down, the implement lift switch indicator changes as shown below:

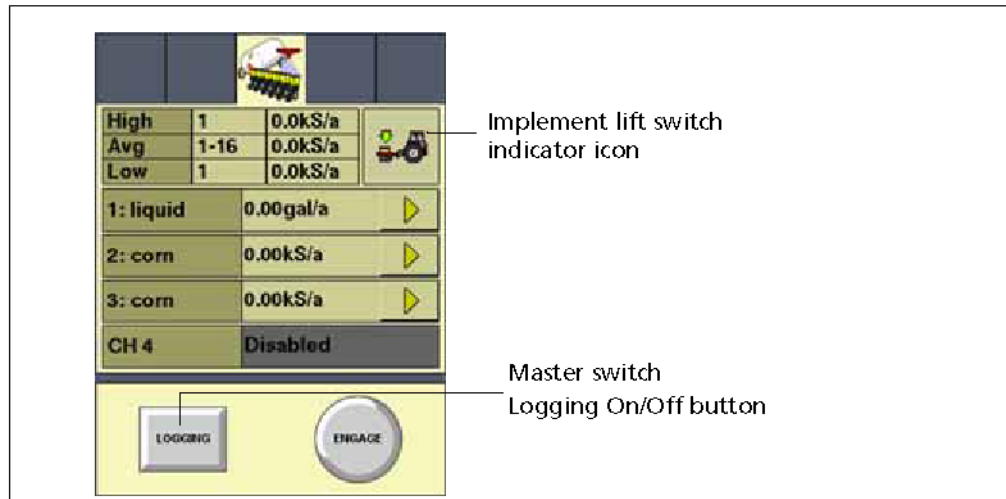


Illustration	Status	Description
	Implement switch is Off  Master switch is Off	The implement is raised and the system is off.
	Implement switch is Off  Master switch is On	The implement is raised. The master switch is turned on but logging does not occur because the planter is not applying seed.
	Implement switch is On  Master switch is Off	The implement is lowered, but the system is off and therefore not planting seed (or logging coverage).
	Implement switch is On  Master switch is On	The implement is lowered and the system is on and logging coverage.

### Implement lift switch not installed

For the planter to plant seed, you must engage the *master switch*.

When the master switch is engaged, the **Logging** button engages and the implement lowers. The **Logging** button and the position switch indicator change to show this:

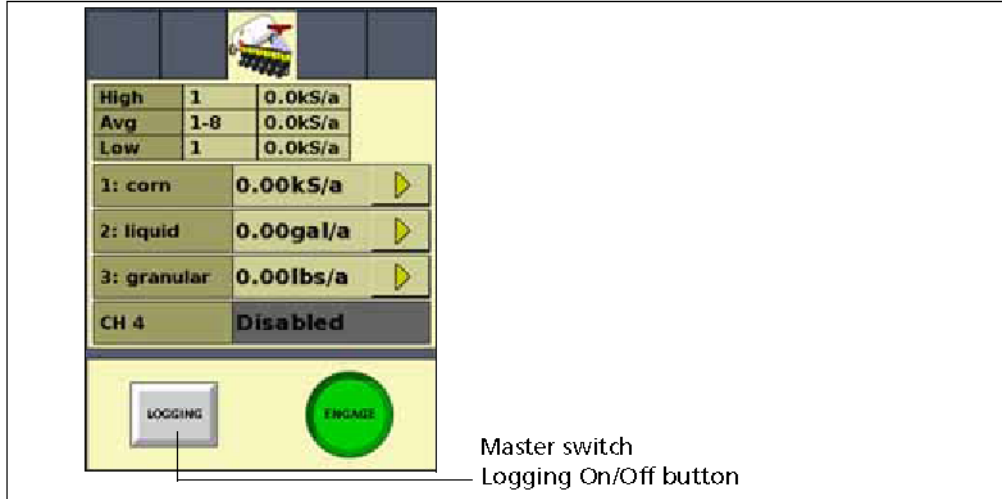
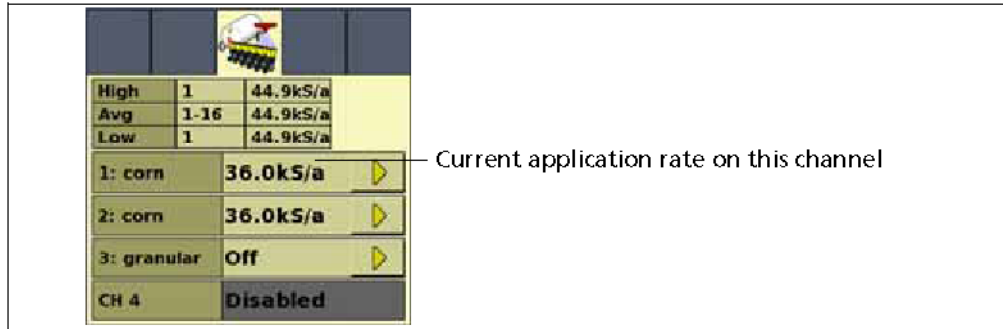



Illustration	Status	Description
	Master switch is Off	The implement is raised and the system is off.
	Master switch is On	The implement is lowered and the system is on and logging coverage.

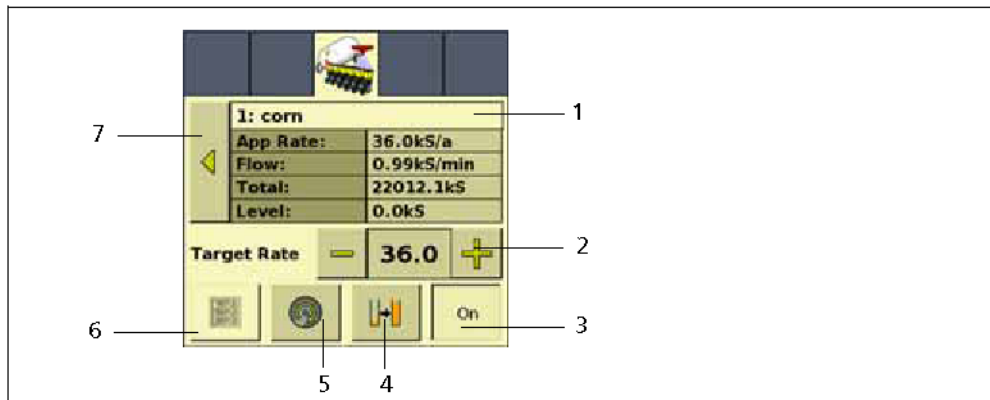
### The planter channel (product) tab (overview mode)

The Tru Application Control plugin can control up to 4 products on a planter at once, enabling you to plant seed while spreading granular fertilizer, and/or spraying liquid. The planter tab on the right of the Run screen shows all the configured channels and their current status:



### Detailed channel information button


To adjust the settings for an individual channel, tap the arrow  next to the channel. The tab shows the details of that channel:




Item	Description
1	<ul style="list-style-type: none"> <li>Channel name</li> <li>Current application rate</li> <li>Channel flow rate</li> <li>Total applied so far</li> <li>Tank level</li> </ul>
2	Target rate (with Increase/Decrease buttons)
3	Channel on/off button
4	Quick link to the <i>Channel Product Level</i> screen. See <a href="#">page 351</a> .
5	Fill disk button

Item	Description
6	Preset target rate selection button: Select a different application rate from your preset entries. See <a href="#">page 342</a> . <b>Note</b> – This button is available only if you entered more than one target rate.
7	Return button: Leave the detailed channel view and return to the overview.

### Turning individual channels on or off

On the detailed channel tab, tap **On**. The channel is turned off when the **On** button is raised .

When you return to the channel status tab, the channel's current planting rate appears as **Off**. See [Figure 14.1](#).

To return to the overview, tap .


### Adjusting the target rate (manually)

The Target Rate is the rate that you want the planter to plant at. To manually increase the target rate, tap **+**. To manually decrease the target rate, tap **-**.



The target rate adjusts by the Increment/Decrement value. See [page 372](#).


### Adjusting the target rate (with a preset rate)

If you created more than one preset rate for a material, the Preset Rate Selection button is available . Tap the button to select between the preset target rates.

The new preset rate appears between the **+** and **-** buttons.

### Filling the planter disks before driving (Pre-prime button)

The planter has disks that rotate and drop seeds one-at-a-time. When the vehicle is moving, the seeds in the disk are continually replenished.

However, when you begin driving, the disks are empty. To avoid this, before you begin moving, tap the Fill Disk button .

This rotates the disks through one revolution to ensure that they are loaded with seed before you begin.

To fill the disks on this channel (and any channels combined with this one):

1. Tap the Fill Disk button. The *Fill Disk* screen appears.
2. Raise the implement.
3. Lock the vehicle brakes and put the vehicle in park.
4. Start the vehicle engine.

5. Run the vehicle until the hydraulic fluid is at operating temperature.



**WARNING** – When you tap the fill disk **Start** button, the machine will become operational. Take all necessary precautions to ensure user safety. Failure to do so may result in serious injury or death.

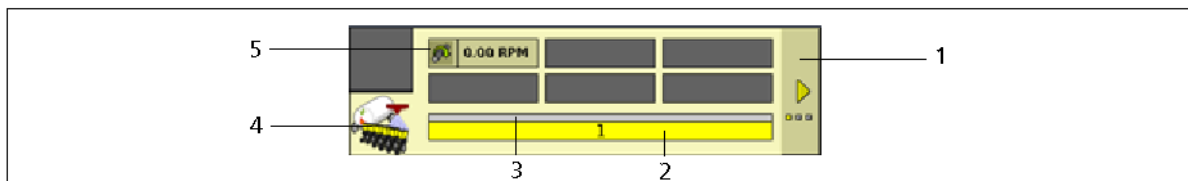
6. Tap **Start**.

The planter disks rotate and fill with seed. Repeat this process for any uncombined channels.

### Row Information tab

A planter can have up to 148 rows. Each row on the planter can have a sensor that reports the row’s planting state.

The information that is reported by the sensors appears on the *Row Information* tab, which appears under the guidance screen:



Item	Description
1	Show next screen (row details)
2	Channel-to-row assignment bar
3	Row status bar
4	Row Information tab selector
5	Additional sensor readings

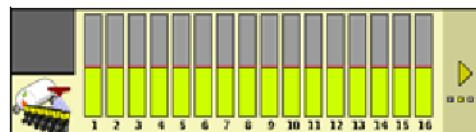
The first screen of the tab shows a summary of all the rows, and any additional screens show the output of the rows in detail.

To view the next screen, tap



### Row details

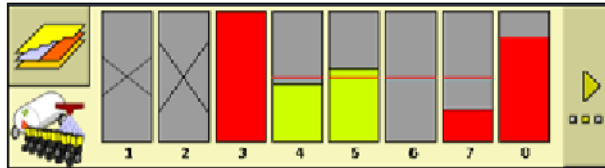
The row detail screens show the status of the rows in detail:



The row status is represented by its color:

Color	Description
Green	The row is operating within bounds
Red	The row is outside the acceptable bounds
A cross	The row is disabled

The onscreen width of the rows varies, depending on how many of them there are. In this example, the planter only has 9 rows:

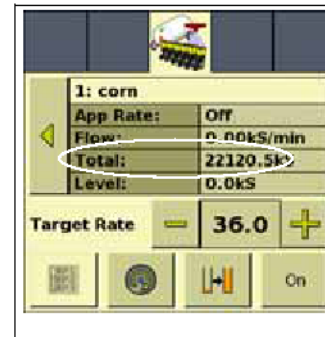


Row number	The row is...
1	off by clutch
2	off by channel
3	blocked (block sensor) or failed (population sensor)
4	operating (slightly below the target rate line)
5	operating (slightly above the target rate line)
6	passive (master switch is off)
7	operating (but below the acceptable bounds)
8	operating (but above the acceptable bounds)

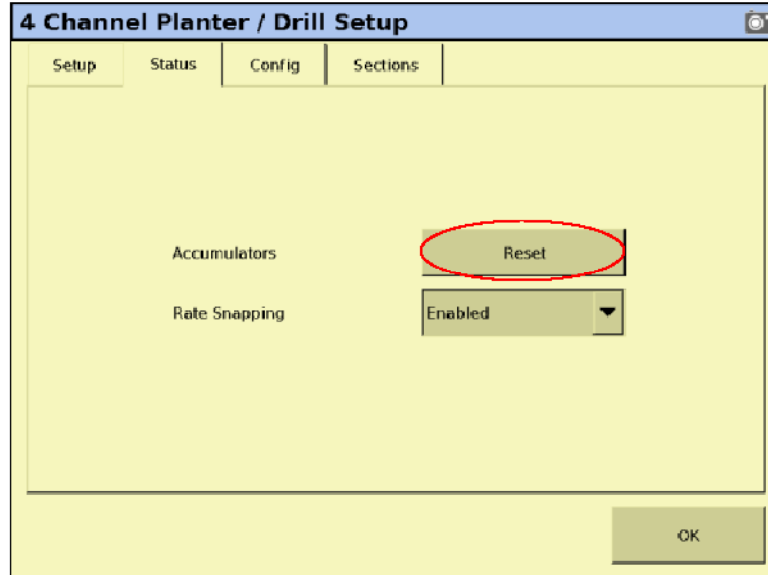
**Note** – Coverage is drawn even if an individual row is not operating (unless Tru Count Air Clutches are installed and switching is used).

## Material accumulator


The *material accumulator* counts the amount of material that passes through each channel. The material accumulator value appears as the *Total* value on the Run screen.

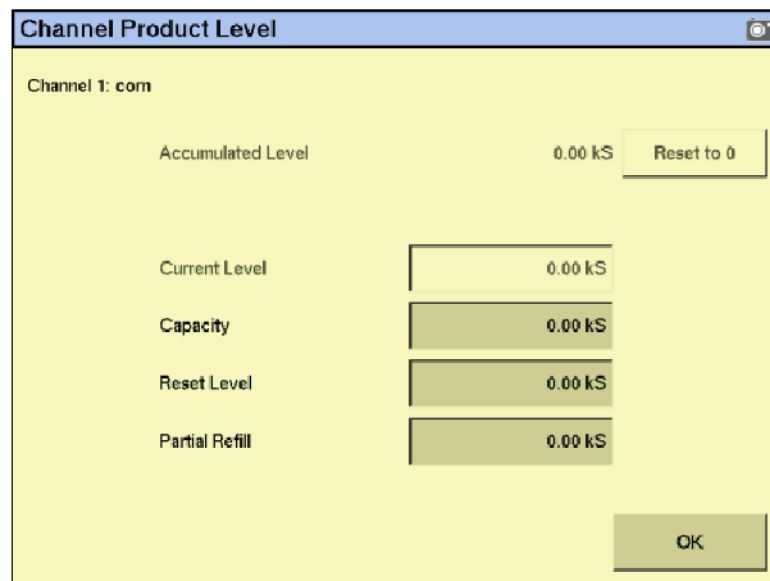


You can reset this value on the application setup screen or by selecting the *Channel Product Level* screen from the Run screen:



To access the *Channel Product Level* screen from the Run screen:

1. Show the details of one of the channels. See [Detailed channel information button, page 404](#).
2. Tap the  button:



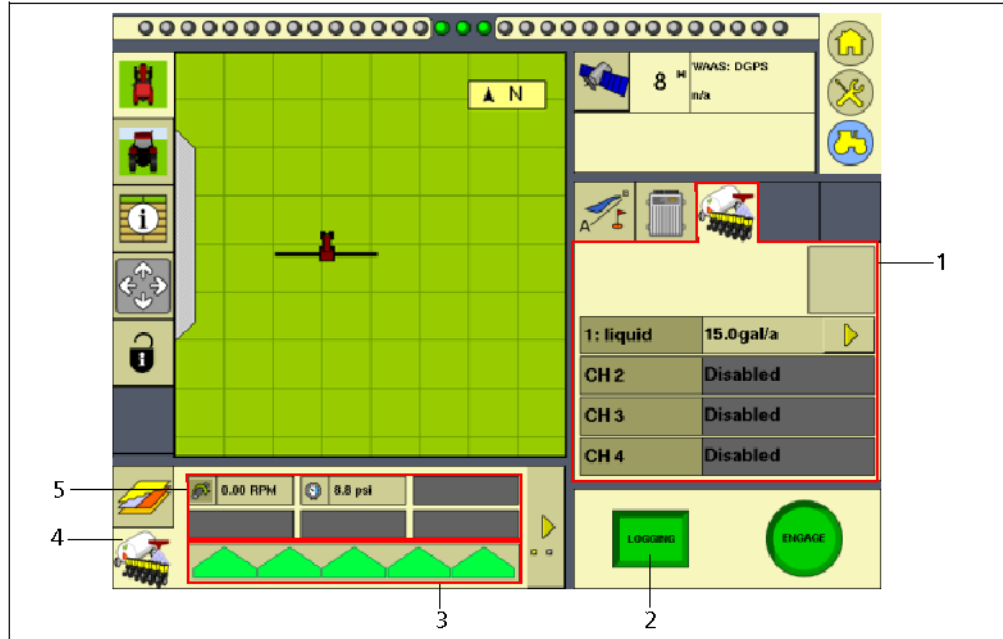
To reset the material accumulator and the tank level, tap **Reset to 0**.

## Operating a sprayer (liquid flow)



**WARNING** – When the master switch is in the On position, the machine is fully operational. Take all necessary precautions to ensure user safety. Failure to do so could result in injury or death.

When you are controlling a sprayer with the Tru Application Control plugin, several new items appear on the main guidance screen:

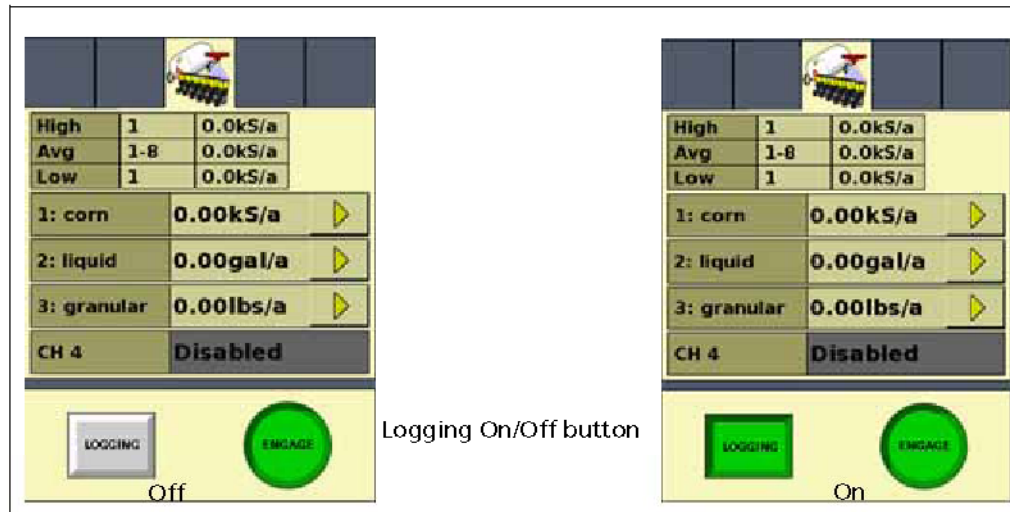


Item	Description
1	Sprayer tab
2	Logging on/off button
3	Sprayer bar
4	Sprayer section and sensors information tab
5	Additional sensor readings

## Turning the sprayer on or off

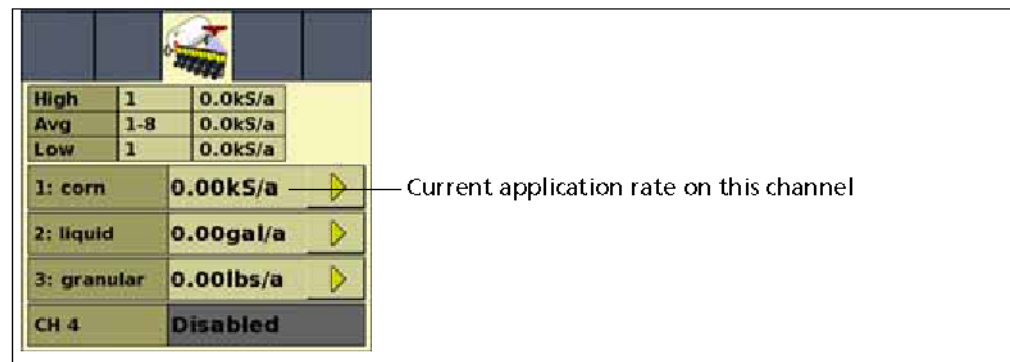
The master switch controls spraying. When you turn on the master switch, logging begins and the **Logging** button is engaged.

To turn off logging, tap **Logging**:




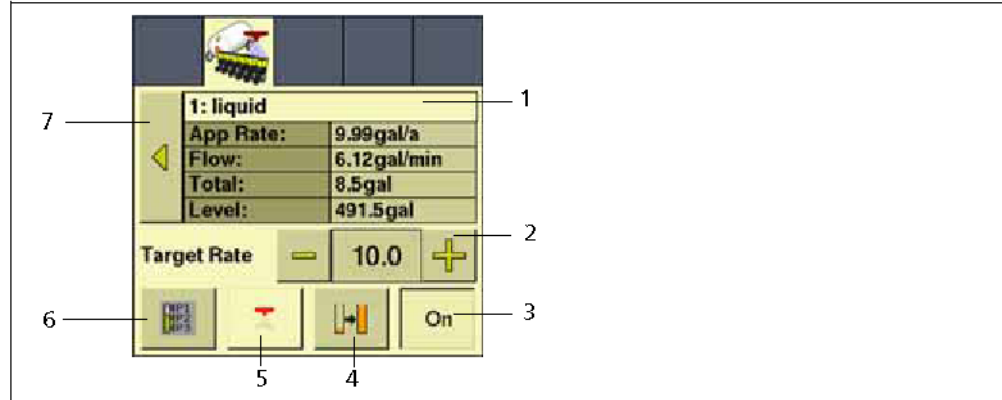
## The Sprayer tab (overview mode)

The Tru Application Control plugin can control up to four liquid products on a sprayer at once. The sprayer tab on the right of the main guidance screen shows all of the configured channels and their current status:




### Detailed channel information button

To adjust the settings for an individual channel, tap the arrow  next to the channel. The tab shows the details of that channel:




Item	Description
1	<ul style="list-style-type: none"> <li>Channel name</li> <li>Current application rate</li> <li>Channel flow rate</li> <li>Total applied so far</li> <li>Tank level</li> </ul>
2	Target rate (with Increase/Decrease buttons)
3	Channel on/off button
4	Quick link to the <i>Channel Product Level</i> screen. See <a href="#">page 360</a> .
5	Flush button (only available when Flush is enabled. See <a href="#">page 357</a> and <a href="#">page 412</a> )
6	Preset target rate selection button: Select a different application rate from your preset entries. See <a href="#">page 352</a> . <b>Note</b> – This button is available only if you entered more than one target rate.
7	Return button: Leave the detailed channel view and return to the overview.

### Turning individual channels on or off

On the detailed channel tab, tap **On**. The channel is turned off when the **On** button is raised .

When you return to the channel status tab, the channel's current spraying rate appears as **Off**.

To return to the overview, tap .


### Adjusting the target rate (manually)

The Target Rate is the rate that you want the sprayer to spray at. To manually increase the target rate, tap +. To manually decrease the target rate, tap -.



The target rate adjusts by the *Increment/Decrement* value. See [page 353](#).

### Adjusting the target rate (with a preset rate)

If you created more than one preset rate for a material, the Preset Rate Selection button is available . Tap the button to select between the preset target rates.

The new preset rate appears between the + and – buttons.

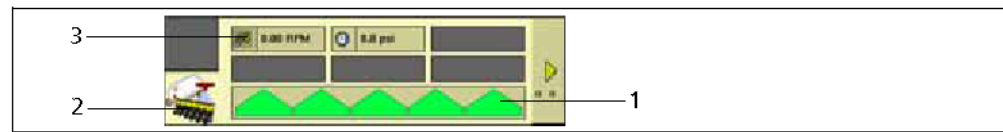
### Flush mode

Flush is a manual override mode that opens the valve and dispenses material for a period of time for a defined flush speed. The Flush Enable feature can be activated only when the vehicle is stopped.

## Section Information tab

A sprayer can have up to 24 sections. Each section is represented on the section layout bar.

The information that is reported by boom sections and additional sensors appears on the *Section Information* tab, which appears under the guidance screen:



Item	Description
1	Section layout bar
2	Sprayer Information tab selector
3	Additional sensor readings

The first screen of the tab shows a summary of all the sections.