INTEGRA

Create Configuration

 > > > **Application** > Start of Configuration Wizard

Enter Settings

 > >

Configuration	Product
Application	▲
Press to Highlight Configuration	
4930rx	

> > **Crop Sensor**

Crop Sensor

| Sensor Configuration		Serial Number:	2006930001
Corn Settings		Firmware Version:	127.127.127.127
North America Wheat Settings		Hardware Revision:	Unknown
Europe Settings			

Crop sensor technology designed by Holland Scientific Inc.

**Sensor Configuration** — The Sensor Configuration button takes user to the Sensor Setup screen.

Corn Settings
North America Wheat Settings
Europe Settings

Corn, North American Wheat, and Europe settings are discussed on the next page

Sensor Setup

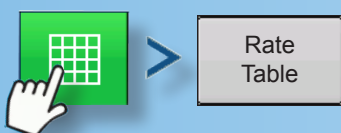| Sensor	Status	
1	ON	Enable
2	ON	Disable
3	ON	
4	ON	
5	ON	
6	ON	
7	ON	
8	N/A	
9	N/A	
10	N/A	
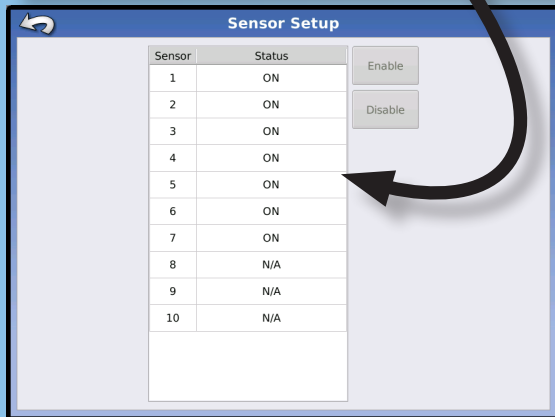
Sensor Setup screen
The status of each sensor is shown"ON" or "OFF". Crop Sensors can be enabled or disabled from this screen.

Application Rate Table

To activated Application Rate Table

 > > Your Cofiguration > > **Crop Sensor** > ☑ Use Application Rate Table
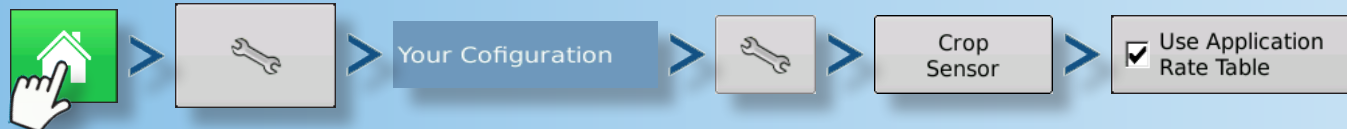
To input values in to the Application Rate Table

 > **Rate Table**

The table can have 2-16 ranges. Each Range is defined by a lower and upper bound and a rate to apply. The bounds and rate can be changed using the numeric pad. Operator can choose VI Type (NDVI or NDRE).

Home > Wrench > Your Cofiguration > Wrench > Crop Sensor

Corn Settings

Corn Setup

Minimum Rate - lowest amount of nitrogen operator wants applied. If OptRx prescribes a lower rate system will default to the minimum rate.

Maximum Rate - highest amount of nitrogen operator wants applied. If OptRx prescribes a higher rate system will default to the maximum rate.

Economic Optimal Rate - total amount of nitrogen uptake by the plant over the growing season.

N Credits - amount of nitrogen that is available to the plant in the soil from previous year's crop and fertilizer application.

Pre-Sidedress Rate - amount of nitrogen that has been applied in the current year before sidedressing.

North America Wheat Settings

North American Wheat Setup

Minimum Rate - lowest amount of nitrogen operator wants applied. If OptRx prescribes a lower rate system will default to the minimum rate.

Maximum Rate - highest amount of nitrogen operator wants applied. If OptRx prescribes a higher rate system will default to the maximum rate.

Rate Increment - increments of rate change. This setting will be in lbs. of N/ac (kg of N/ha).

Economic Optimal Rate - total amount of nitrogen uptake by the plant over the growing season.

N Credits - amount of nitrogen that is available to the plant in the soil from previous year's crop and fertilizer application.

Pre-Topdress Rate - amount of nitrogen that has been applied in the current year before topdressing.

Europe Settings

European Setup

Minimum Rate - lowest amount of nitrogen operator wants applied. If OptRx prescribes a lower rate system will default to the Minimum Rate.

Maximum Rate - highest amount of Nitrogen operator wants applied. If OptRx prescribes a higher rate system will default to the Maximum Rate.

Rate Increment - increments of rate change. This setting will be in lbs. of N/ac (kg of N/ha).

Managed Rate - amount of nitrogen crop will uptake throughout a single season.

Number of Applications - times per season N will be top-dressed.

Planned Rate - intended rate to apply if sensors were not used.

Application Trend - setting telling system whether to **Increase** rate for High Biomass or **Decrease** rate for High Biomass.

Load Configuration

Start Field Operation

> Start of Field Operation Wizard

> Run Screen.
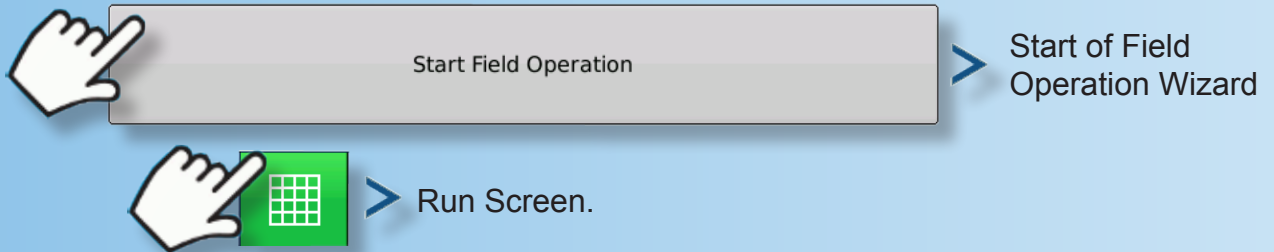
Press the toggle button in the upper left corner of the equipment tab

V.I. Reference Value
You must scan a portion of the field and create a V.I. Reference Value.
This V.I. Reference Value is a baseline that the system uses to evaluate the rest of the field.

Europe - Scan the portion of your field where the plants show an average amount of vigor and growth. Scan this area for 150 seconds (2.5 minutes).

Corn and North American Wheat- Scan the most vigorous portion of your field for 300 seconds (5 minutes). For Corn, a growth stage of V5 or later is needed for accurate application.

Create

1. Press Create Button If a reference strip has already been created, a warning appears, notifying you that this will unload the current reference strip.

2. Enter Reference Strip Information - Use the on-screen keyboard to enter the Name, Growth Stage, and Variety.

3. Press the green check mark box when finished.

4. A screen appears, stating that you should drive the applicator to the start of the reference strip.

5. When ready, press the Start button and drive the reference strip.

6. A green bar appears states "Recording," and counts the number of seconds that you record the reference strip.

7. Press the Stop button when you wish to finish creating the Reference Strip.

8. The Reference Strip Information screen appears, showing the new Reference Strip file name.

9. Press the green check mark box to accept, or use the on-screen keyboard to edit, if necessary.

View All

Review reference strip by pressing the View All button, The file name of the new reference strip appears in the Reference Strip Selection screen.
To delete a reference strip, highlight the file name and press Delete.
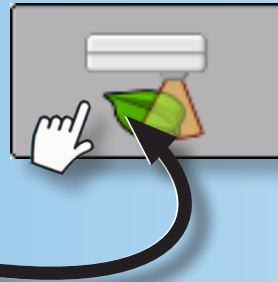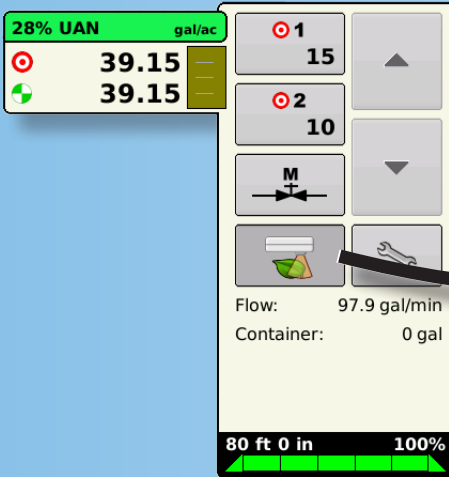
Press the OptRx prescription rate button in the Product Control Toolbox to engage the OptRx system to apply variable rate N, based on data received from the sensors. This variable rate is shown on the Product Control Toolbox tab.

The Crop Sensor Settings screen is where you can adjust application rate settings specified by the OptRx Crop Sensor module. The VI Zero and VI Minimum settings are used as a buffer to prevent applying the wrong amount of N or applying it in areas where doing so would be ineffective.

To access the Settings screen, press the OptRx Crop Sensor button, located in the box containing the Map screen's VI Bar Graph (B), as shown.
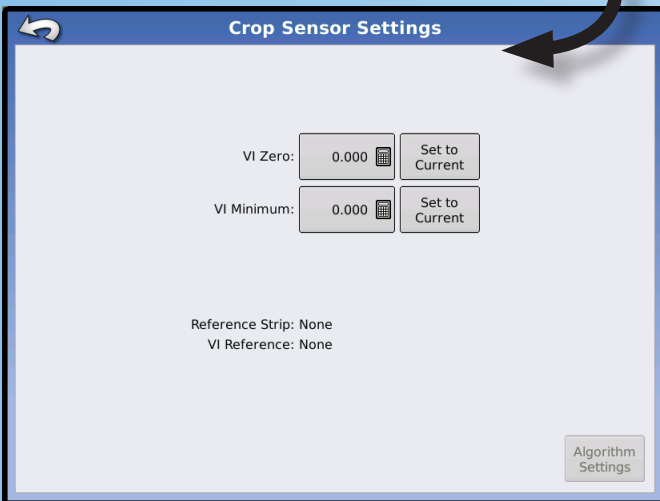
VI Zero - threshold below which the Crop Sensor applies a zero rate, used to prevent applying N over bare ground or permanently damaged crops, enter value with keypad or enter in current value using Set to Current button

VI Minimum - threshold below which the Crop Sensor applies minimum rate, setting used to apply a minimum amount of N on ground with damaged crops, may enter value using keypad or enter in current VI value using Set to Current button

Reference Strip - name entered during the Configuration procedure

VI Reference - value of a healthy crop biomass used in reference for calculating the proper N application rate

Algorithm Settings - access Setup screen to adjust setup rates (discussed on page 2)