

# Materials

## How to Create Crop Protection Materials

1. Navigate to the Crop Protection Tab
2. Click “+ Add Product”
3. Click “Product Search”
4. Enter name and/or manufacturer of the product to search
5. Select your desired product
6. Enter information for Purchased Units and Applied Units
7. Fill in other desired fields
  - a. If utilizing the material with an in-field terminal it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
8. Click “Save”

Note: If you cannot find your required chemical in step 4, you can type the information into the fields manually.

The screenshot shows the PTx Trimble web interface. On the left is a navigation menu with options: Map, Setup, Fields, Crop Zones, Equipment, Materials (highlighted), Crops, People, Plan, Track, Analytics, and Data Transfer. The main content area is titled 'MATERIALS' and has tabs for CROP PROTECTION, FERTILIZERS, LIME, SEEDS, WATER, and TANK MIXES. The 'CROP PROTECTION' tab is active, showing 'Product Properties'. Below this is a 'PRODUCT SEARCH' button and a text input field. To the right are tabs for 'Details' and 'Controller'. The 'Details' tab contains fields for Name \*, Category \*, Form \*, Active Ingredient, Purchased Units \*, Unit Cost, Applied Units \*, and Rate 1. The 'Controller' tab contains fields for Manufacturer, EPA #, Signal Word, REI, and Active Ingredient. At the bottom right are 'CANCEL' and 'SAVE' buttons.

## How to Create Fertilizer Materials

1. Navigate to the Fertilizers Tab
2. Click “+ Add Fertilizer”
3. Click “Fertilizer Search”
4. Enter name and/or manufacturer of the product to search
5. Select your desired fertilizer

6. Enter information for Form, Purchased Units and Applied Units
7. Enter in the fertilizer analysis
8. Fill in other desired fields
  - a. If utilizing the material with an in-field terminal it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
9. Click “Save”

Note: If you cannot find your required fertilizer in step 4, you can type the information into the fields manually.

The screenshot displays the PTx Trimble software interface for managing fertilizer materials. The left sidebar contains a navigation menu with 'Materials' highlighted. The main content area is titled 'Fertilizer Properties' and features a 'FERTILIZER SEARCH' button. Below this, there are several input fields: 'Name \*', 'Manure Source' (checkbox), 'Nitrification Inhibitor' (checkbox), 'Form \*' (dropdown), 'Purchased Units \*' (dropdown), 'Unit Cost' (text input), 'Applied Units \*' (dropdown), and 'Rate 1' (text input). To the right of these fields is a 'Nutrients' section with a table for adding nutrient information. The table has columns for the nutrient name, a dropdown for selection, a percentage field, and a delete button (X). The nutrients listed are Nitrogen, Phosphorus, Potassium, and Sulfur. A '+ ADD ANOTHER ROW' button is located below the table. At the bottom right of the form, there are 'CANCEL' and 'SAVE' buttons.

## How to Create Lime Materials

1. Navigate to the Lime Tab
2. Click “+ Add Lime”
3. Enter Name, Purchased Units and Applied Units
4. Fill in other desired information
  - a. If utilizing the material with an in-field terminal it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
5. Click “Save”

The screenshot shows the PTx Trimble interface with the 'Materials' section selected. The 'LIME' tab is active, and the 'Controller' sub-tab is selected. The form contains the following fields:

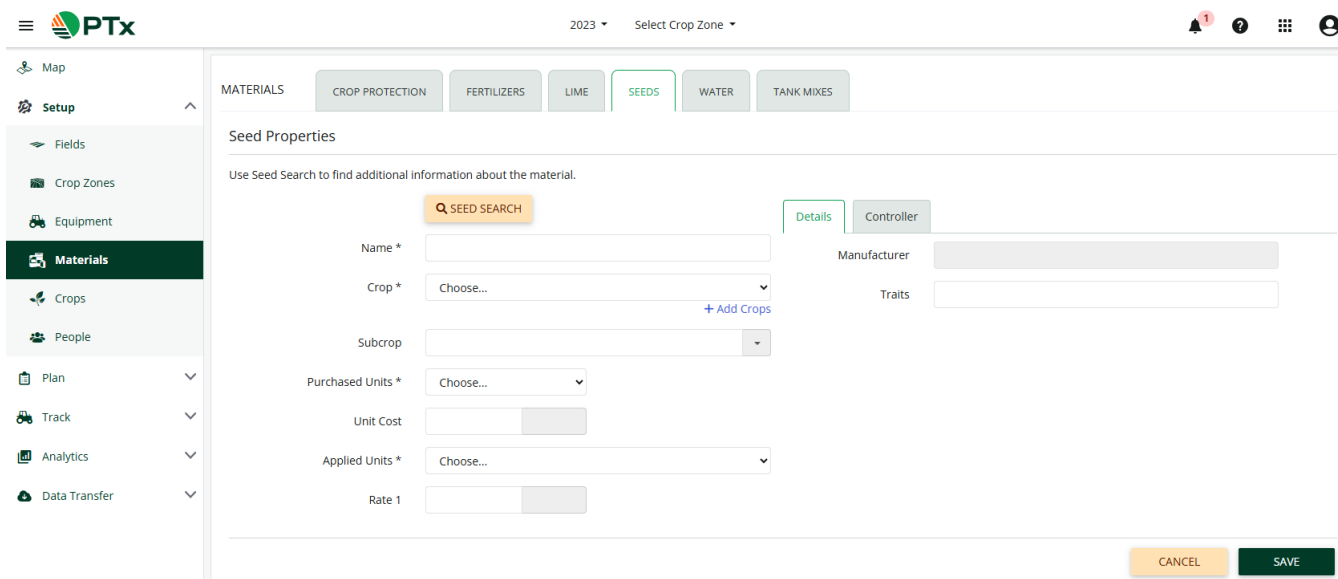
- Name \*
- Dolomitic ☐
- Purity % or % Calcium Carbonate Equivalent \* (100 %)
- Purchased Units \* (Choose...)
- Unit Cost
- Applied Units \* (Choose...)
- Rate 1
- Rate 2
- Rate Increment
- Minimum Rate
- Maximum Rate
- Density (lbs / ft<sup>3</sup>)
- % Passing Mesh Size 10 (Required for use in Rec.)
- % Passing Mesh Size 50 (Required for use in Rec.)
- Neutralizing Value (Calculated) (0.00)

At the bottom right, there are 'CANCEL' and 'SAVE' buttons.

## How to Create Seeds Materials

1. Navigate to the Seeds Tab
2. Click "+Add Seed"
3. Click "Seed Search"
4. Use Name, Crop and Manufacturer fields to find your desired seed
5. Enter Purchased Units and Applied Units
6. Fill in other desired information
  - a. If utilizing the material with an in-field terminal it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
7. Click "Save"

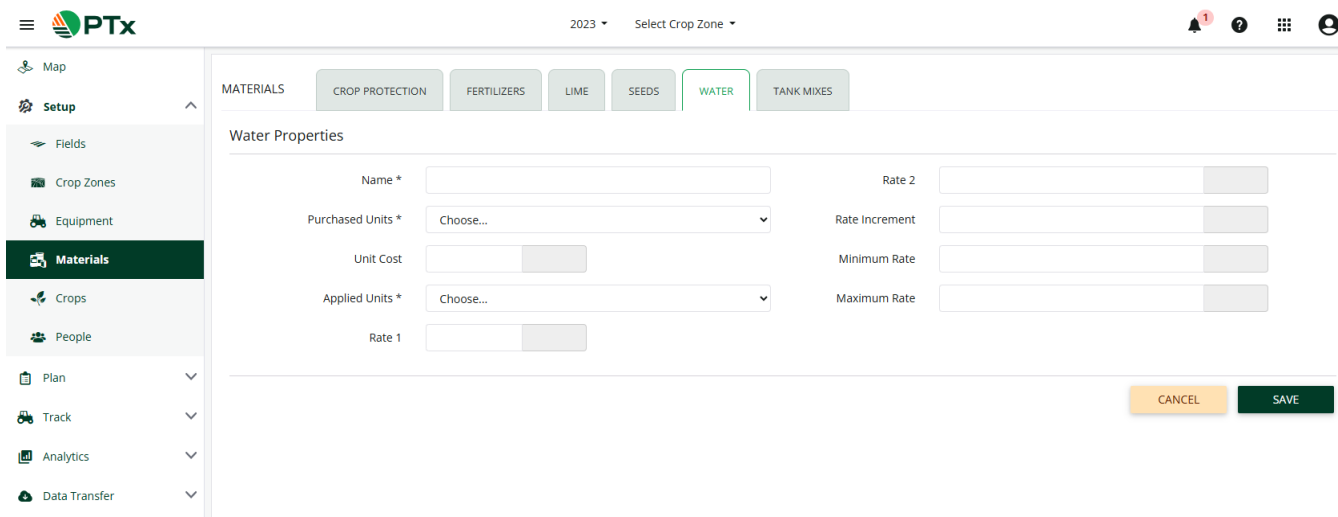
Note: If you cannot find your required seed in step 4, you can type the information into the fields manually.



The screenshot shows the PTx application interface with the 'Materials' section selected in the sidebar. The 'SEEDS' tab is active under the 'MATERIALS' header. The form is titled 'Seed Properties' and includes a 'SEED SEARCH' button. Below this, there are several input fields: 'Name \*', 'Crop \*' (with a '+ Add Crops' link), 'Subcrop', 'Purchased Units \*', 'Unit Cost', 'Applied Units \*', and 'Rate 1'. To the right, there are tabs for 'Details' and 'Controller', and input fields for 'Manufacturer' and 'Traits'. At the bottom right, there are 'CANCEL' and 'SAVE' buttons.

## How to Create Water Materials

1. Navigate to the Water Tab
2. Click “+ Add Water”
3. Enter Name, Purchased Units & Applied Units
4. Enter other desired information
5. Click “Save”



The screenshot shows the PTx application interface with the 'Materials' section selected in the sidebar. The 'WATER' tab is active under the 'MATERIALS' header. The form is titled 'Water Properties' and includes input fields for 'Name \*', 'Purchased Units \*', 'Unit Cost', 'Applied Units \*', and 'Rate 1'. To the right, there are input fields for 'Rate 2', 'Rate Increment', 'Minimum Rate', and 'Maximum Rate'. At the bottom right, there are 'CANCEL' and 'SAVE' buttons.


## How to Create Tank Mixes Materials

1. Navigate to the Tank Mixes Tab
2. Click “Add Mix”
3. Enter information into Name & Form Fields
4. Choose how to set the rates of your ingredients

- a. Define mix as rates: Use when defining the tank mix by the rate to be applied for each ingredient (often used to create the mix before the application)
  - b. Define mix as quantity: Use when defining the tank mix by a total volume of each ingredient (often used to create the mix once you know how much product was already applied)
5. Designate your tank size: Size of the tank mix batch used to create the ratio of ingredients relative to the carrier volume
6. Click “+ Add Ingredient To Recipe” to add materials to the mix
7. Select the checkbox of the material to add to the mix and hit “Ok”
8. Enter the amount of the material in the mix
9. Fill in other desired information
  - a. If utilizing the material with an in-field terminal it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
10. Click “Save”


The screenshot displays the PTx FarmENGAGE web application. The top navigation bar includes the PTx FarmENGAGE logo, a year selector (2025), a 'Select Crop Zone' dropdown, and user notification icons. The left sidebar contains a 'Setup' menu with options: Map, Fields, Crop Zones, Equipment, **Materials** (highlighted), Crops, People, Plan, Track, Analytics, and Data Transfer. The main content area is titled 'MATERIALS' and has tabs for CROP PROTECTION, FERTILIZERS, LIME, SEEDS, WATER, and TANK MIXES. The 'TANK MIXES' tab is active, showing 'Tank Mix Properties' for a mix named 'Touchdown Mix'. The form includes fields for Name, Form (Liquid), Carrier (water), Rate 1 (37.07 L/ha), Mix Rate (37.07 L/ha), and Mix Cost (\$0.00). There are radio buttons to 'Define mix as rates' (selected) or 'Define mix as quantities'. A table on the right lists ingredients: 'TOUCHDOWN TOTAL' at 0.47 gal/ha and 'Pursuit' at 0.49 l/ha. A '+ ADD INGREDIENTS TO RECIPE' button is located below the table. At the bottom right are 'CANCEL' and 'SAVE' buttons.

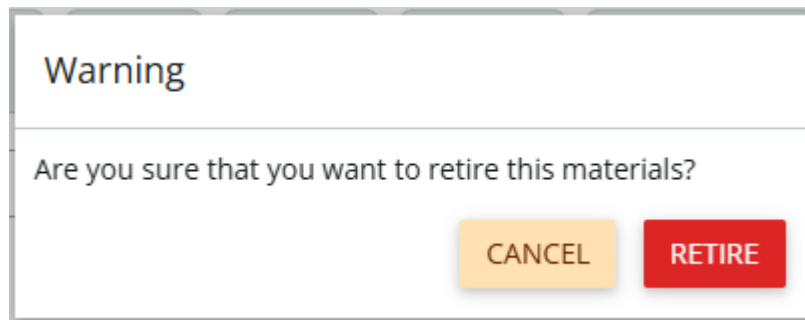
## How to Edit Materials

1. Navigate set-up > materials
2. Navigate to the tab of the material you want to edit
3. Click the three dots icon  on the right of the material and select 'Edit Material'
4. Make and required changes and then click 'Save'


## How to Retire Materials

1. Navigate set-up > materials
2. Navigate to the tab of the material you want to retire

3. Click the three dots icon  on the right of the material and select 'Retire Material'
4. Click 'Retire' on the pop-up



### **How to Unretire Materials**

1. Navigate set-up > materials
2. Navigate to the tab of the material you want to unretire
3. Click the 'Show Retired' checkbox
4. Click the three dots icon  on the right of the retired material and select 'Unretire Material'
5. Select 'Un-Retire' in the pop-up

