

Blend Module

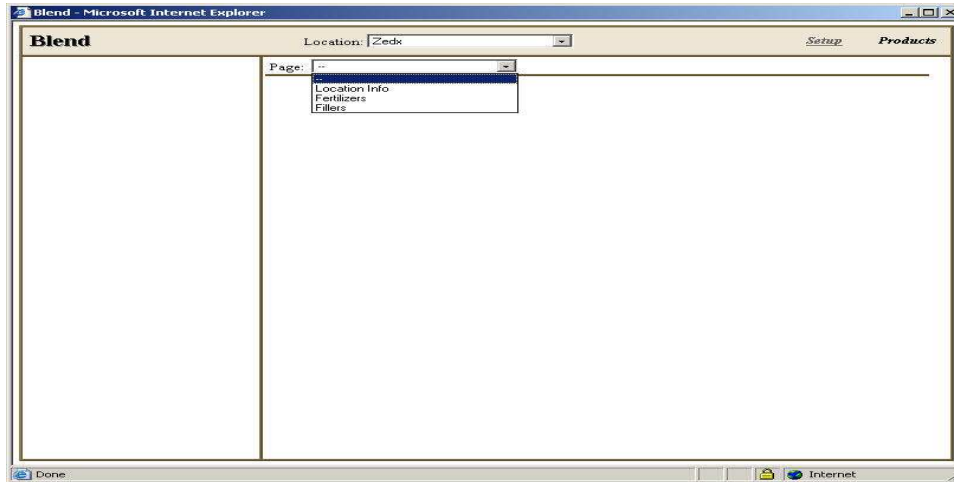
The Blend module is an application for the customization and calculation of fertilizer blends. After performing fertilizer setup, blends can be made by manually inputting the required elemental needs, or by using the average lab recommended amounts for a farm or field. The components that make up the Blend module are Setup and Products.



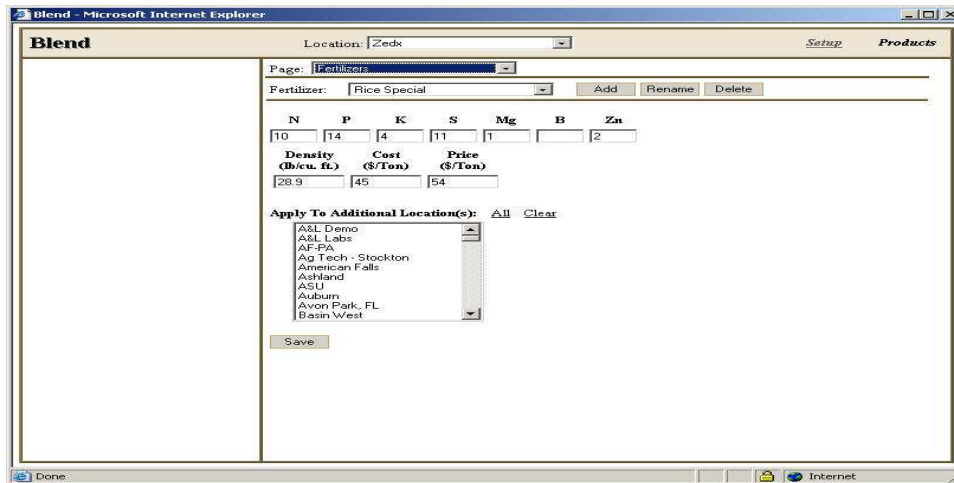
Throughout the module, the page header is used as a navigation bar to select location and the desired Blend component.

SETUP

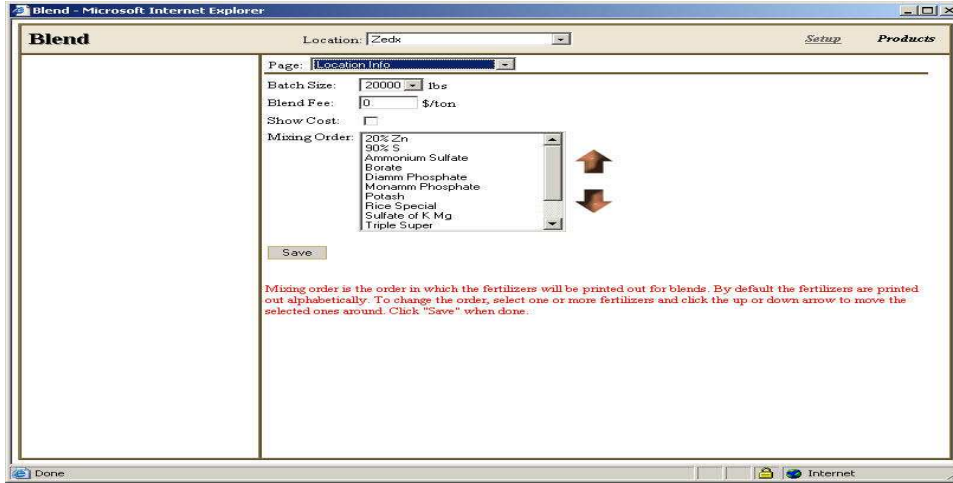
Before blends can be generated, fertilizer and location information must be entered in the Setup component of the Blend module.



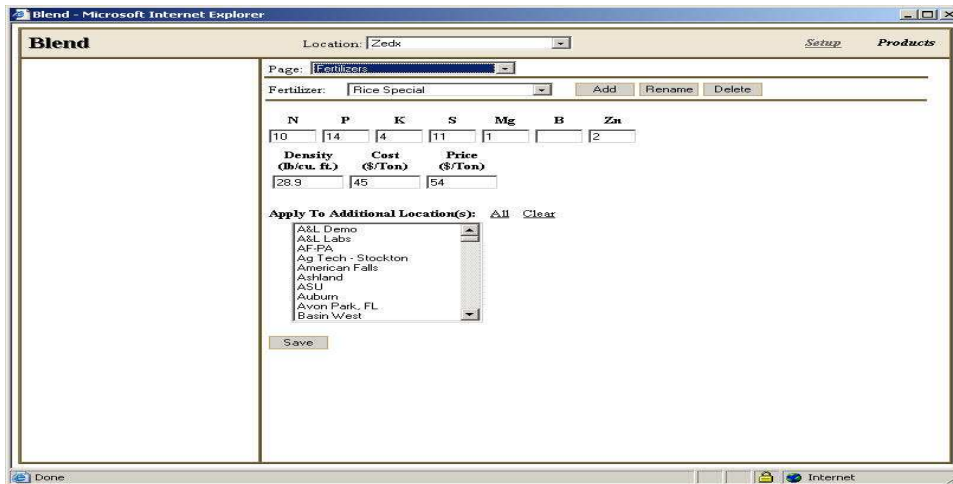
1. Fertilizer information may be entered by selecting **Fertilizers** in the “Page” drop down select box. Fertilizers may be added, renamed or deleted by clicking on the corresponding buttons (*Add, Rename, Delete*) next to the Fertilizer select box. Once a fertilizer is selected, information such as composition, density, cost and price may be entered. These fertilizer properties are location dependent; and the location of where to apply the fertilizer may be selected from the “Apply to Additional Location(s)” drop down select box. Click on the *Save* button to save your addition or modification of fertilizer information. See the form below for an example of the Fertilizer setup.



2. Location information may be entered by selecting **Location Info** in the “Page” drop down select box. Batch Size may be selected in lbs. and Blend Fee may be entered in \$/ton. There is a “Show Cost” check box to toggle whether or not to show costs in the Blend product. Mixing order is the order in which the fertilizers will be printed out for blends. By default, the fertilizers are printed out alphabetically. To change the order, select one or more fertilizers and click on the up or down arrow to move the selected fertilizer(s). Click on *Save* to save your addition or modification of location information. See the form below for an example of the Location Info setup.



3. Filler information may be entered by selecting **Fillers** in the “Page” drop down select box. Fillers may be added, renamed or deleted by clicking on the corresponding buttons (*Add*, *Rename*, *Delete*) next to the Filler select box. Once a filler is selected, information such as density, cost and price may be entered. These filler properties are **location dependent**, and the location of where to apply the filler may be selected from the “Apply to Additional Location(s)” drop down select box. Click on the *Save* button to save your addition or modification of filler information. See the form below for an example of the Filler setup.

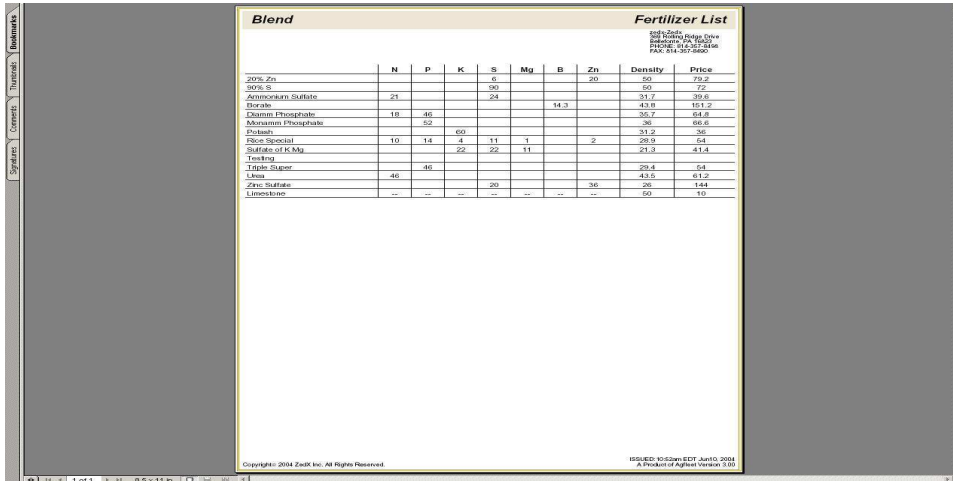
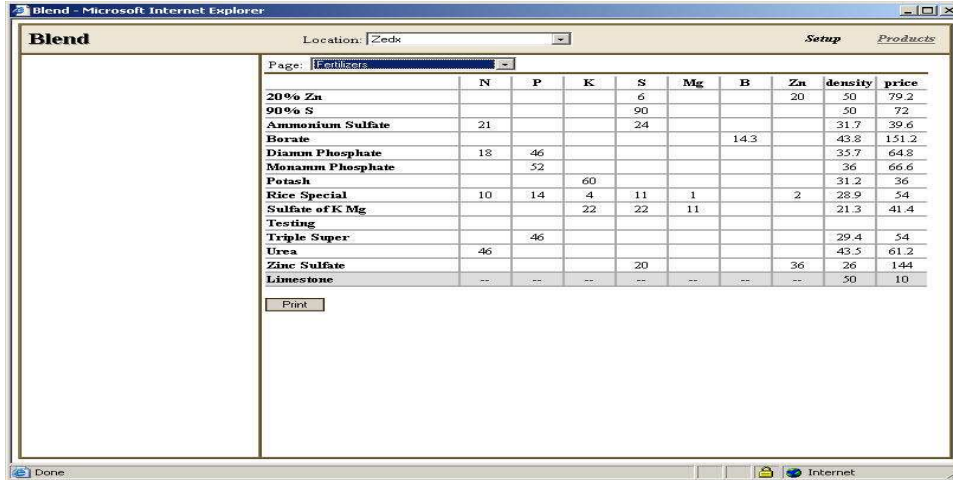


PRODUCTS

In the Products component, there is a product selection of Fertilizers and Blend in the “Page” drop down select box.

1. The **Fertilizers** product displays the composition of all fertilizers that have been set up utilizing the Setup component. A PDF can be generated by clicking on the *Print* button at the bottom of the fertilizer list.

See below for an example of the Fertilizer setup and Fertilizer product



2. The **Blend** product is used to calculate a fertilizer blend. A blend may be associated with a specific grower, farm and field by making the appropriate selections of Grower, Farm and Field. The Target Amount in acres will be displayed and may be overridden by entering a new amount. The default blending fee for the current location is displayed in the Blend Fee box, and can also be overridden. Batch Size may be entered in lbs. and there are check boxes for Equal Batches and Filler (Yes/No).

On the left-hand side of the screen, all fertilizers for the current location will be displayed and checked as available by default. For the blend itself, lbs./acre or percent composition may be entered along with the respective elemental values. After clicking on the *Calculate* button, the **most cost efficient** solution will be returned if "Lb./Ac" is chosen, and the **optimal solution** will be returned if the "Percent" is chosen. The result of a percent submission will be based on batch size. The results are displayed to the screen and may be printed or saved by clicking on the *Print* or *Save* buttons.

In the printout, the fertilizers will be displayed according to the mixing order. Scale weight in the printout is based off of weights for a single, complete batch. This fertilizer blend product may also be made with real time fertilizer recommendations by using the "Recommendation Summary" product in Field Sampler module. In the "Recommendation Summary", Fertilizer Blend should be selected in the Format select box. When information is properly submitted, a new screen will appear with the blend data. Minor changes may be made here before printing out a report.

See below for an example of the Blend setup and Blend product.

