


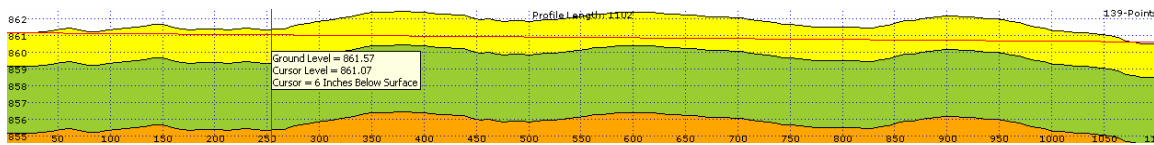
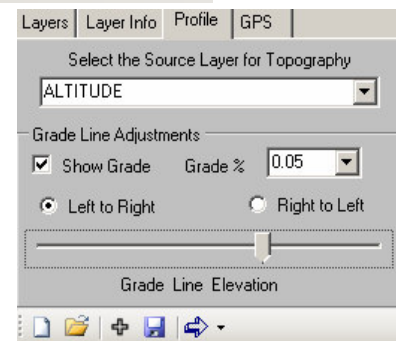
Quick Notes for Drainage Planning – Drainage Window

Viewing Data – Drainage Window







1. Open “New” – “Drainage Window”
2. Check your “Altitude.grd” or “Elevation.grd” (you can un-check this layer now)
3. Turn on your desired layers to do ditch planning
 - a. County NAIP, Flow Accumulations
 - b. Water Sheds, Flow Accumulations, Depressions

Profile Lines

1. Click on  “Profile” on the top toolbar and choose a direction to lay out a drainage plan.
2. Left click to lay out your drainage profile line, notice the numbers at the bottom of the screen.
Elev.@ cursor Line Length Rise / Fall Cut / Fill @ profile grade Actual Grade
860.7 Feet Length: 1,073 Foot Drop: 0.48 Foot Drop Cut 0.05 Foot Grade: 0.045 %
3. Right Click to view profile line
4. Under the “Profile” your “Source” should read “Altitude” or “Elevation”.
5. Check “Show Grade”
6. Check either “Left to Right” or “Right to Left”
7. Use the slider bar to adjust the location of the profile line
8. Change your Grade % to change the grade of the line
9. Moving up and down on the vertical line will give you location and cut information.







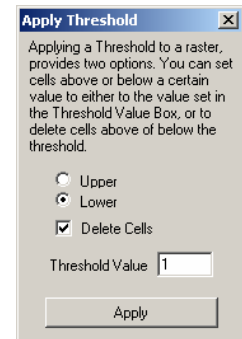
Saving Profile Lines (under the Profile Tab)

1. Click on the  “Create New Layer” button or  “Open an Existing Layer”. (once per field session).
2. Create a profile you want to save, click  “Add Current Profile to Layer”.
3. Click on the  “Save Layers” button to save the file
4. Repeat your Profile Lines section and Save Profile Lines until you have all the Ditches created for the field. (make sure you )
5. Click on the  and select “Export AGPS Profiles”
6. Save the file back into the field folder and use a simple field name so you can identify this later. (ex. – sec32sw.AGP_PRF)


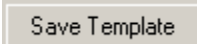




Quick Notes for Drainage Planning - Map Window

Adjusting Flow Accumulations (Main Ditches)


1. "File" and open "New" - "Map Window"
2. Open "Flow Accumulations" set as **active layer**, select  "Trim End Values" →
3. "Apply Threshold" window adjust the minimum amount of water to form ditch.
4. Click "Apply"
 - a. *Steps 2-4 can be applied to shallow "Depressions" to cleanup maps.*
5. With your new flow lines appearing select  and select "3x3 fill" to increase flow width.
6. Click on the  "Save" icon on the bottom tool bar. **Rename to Main Ditches** and "Save". (if you do not do this you will loose your original Flow Accumulations out to the 0.3 acre)
7. Under the **Layer Info** tab click on  Clear Map




Creating Dump Areas

1. Turn on all the maps required to help define your dump areas.
2. Click on  "Create New Shape File"
 - a. Select "Boundary" or "Ditch Line" from the defined templates list
 - b. Choose a line color and fill color
 - c. Check "Fill Polygons"
 - d.  and name "Dump Areas"
 - e. Finish
3. Click on  and select "Dump Areas"
4. Click on the newly created  Dump Areas.SHP file to turn it on and make it the **active layer**.
5. Select the  "SHP" button (bottom toolbar) - Left click around your Dump Area - Right Click to close.
6. Repeat step 5 to create all your Dump Areas for this field.
7. When finished -  Save (bottom toolbar) - Dump Areas.SHP. (Overwrite - "Yes")

Saving Images for Ditching

1. Turn on your desired layers to view while ditching (combination listed below)
 - a. County NAIP, Flow Accumulations, Main Ditches, Hills, Dump Areas
 - b. Water Sheds, Flow Accumulations, Main Ditches, Depressions, Dump Areas
 - c. Topo Features, Flow Accumulations, Main Ditches,
 - d. May want to use the "Transparency" ¹⁰⁰  setting on some layers.
2. Go to "File" - "Print" - "Print Map to Bitmap" (*this function only works in the "Map Window"*)
3. Location, save this file into the same field folder you were working in.
4. Name the file something simple that captures the field location ex - sec32sw
5. Save this file as a BMP for most applications
6. Click save

Moving BMP files to other Devices

1. In most case you will be moving files with Removable Storage Drives
2. In ADV click  "Explore this Folder" icon
3. You are now looking inside the "Field Folder" in Windows File Explorer.
4. Using our example, highlight both **sec32sw.bmp** and **sec32sw.bpw**
5. "Copy" these two items (select "Edit" - "Copy" from the toolbar)
6. Paste them onto the Removable Storage and take them to your other device
7. Connect the Removable Storage the computer with AGPS software and copy the files
8. Place the files into the C:\AMW\DATA folder