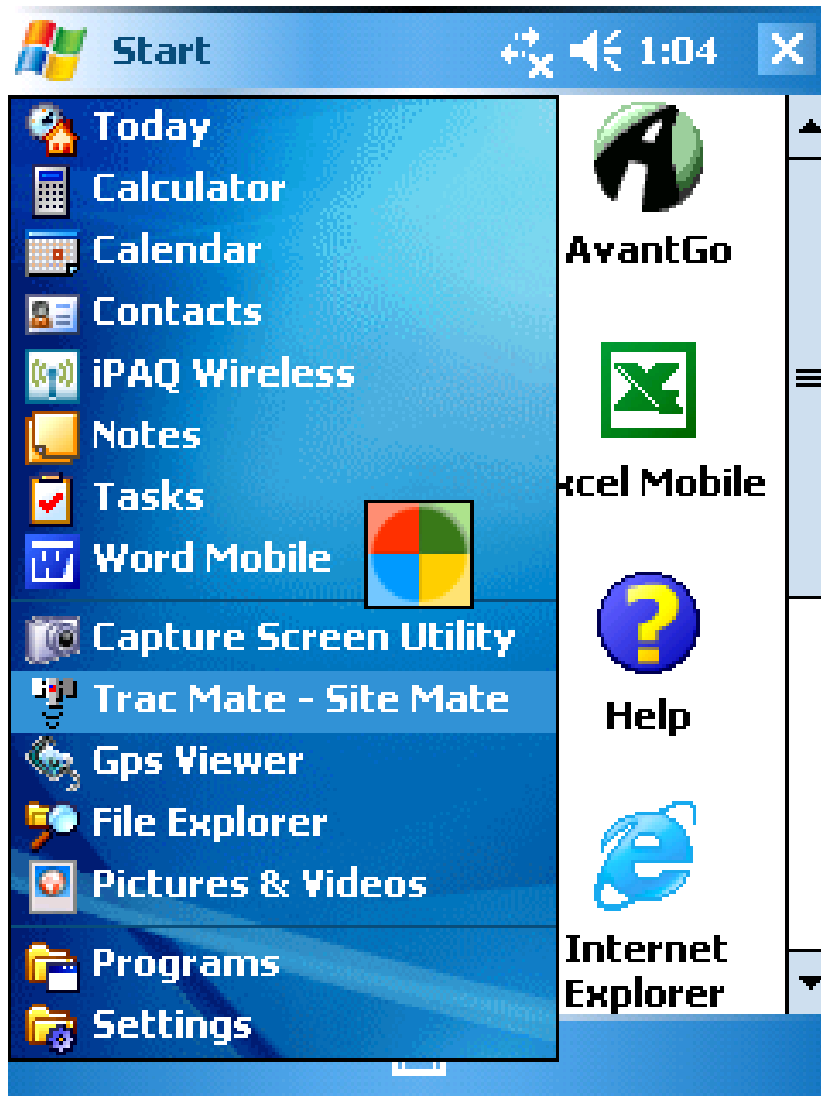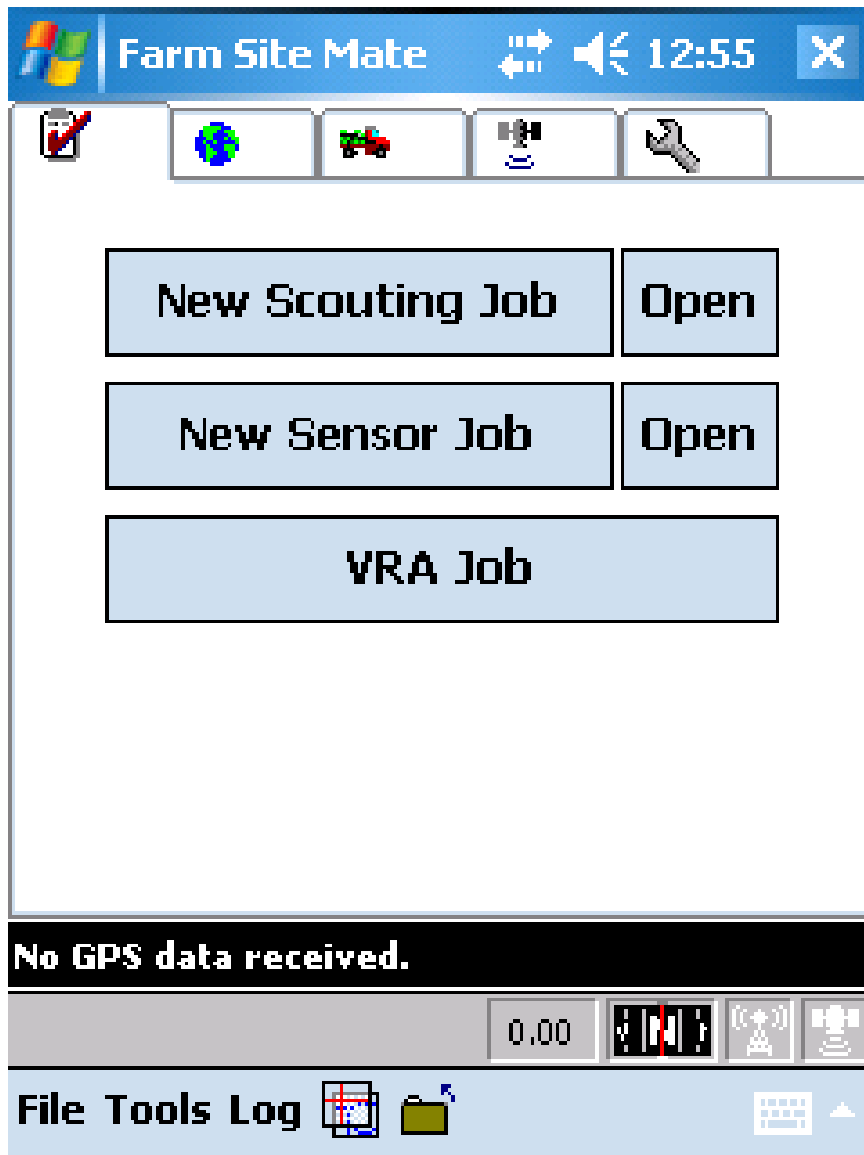# Grid Sampling Exercise Using Site Mate

Precision Cotton Workshop
November 13, 2008

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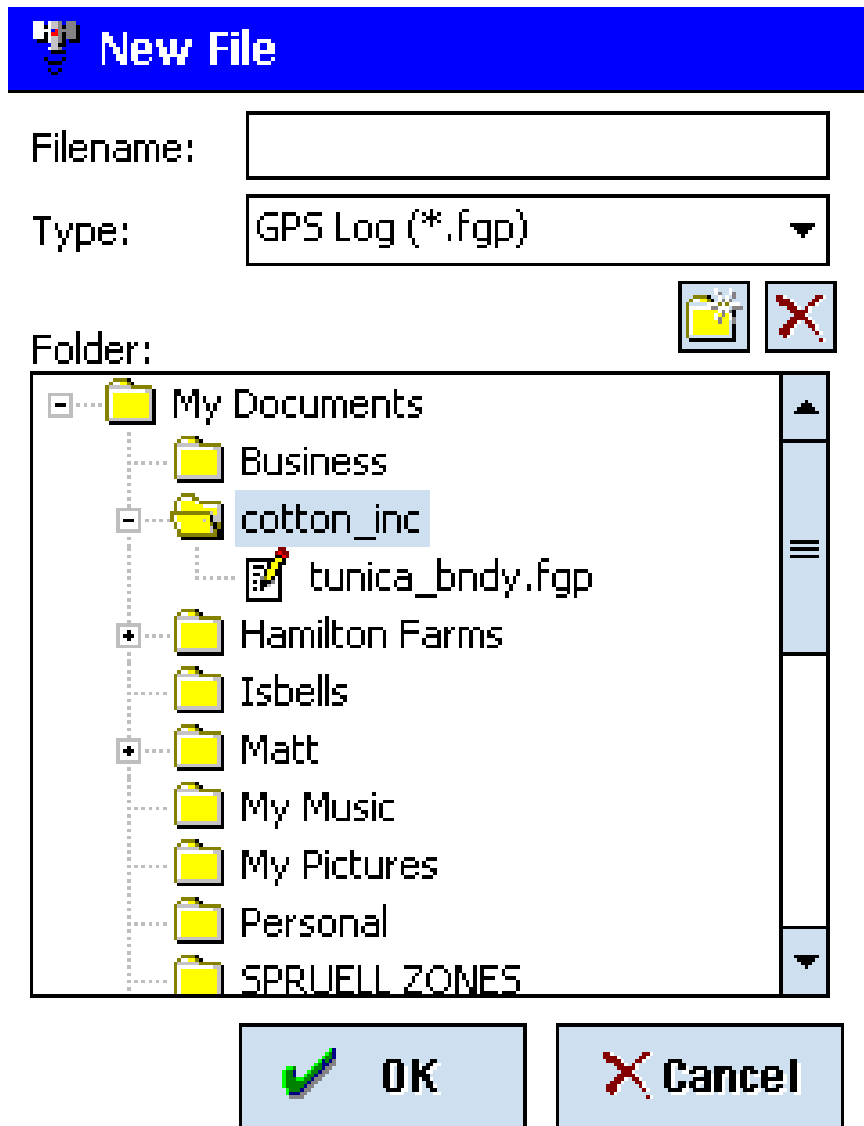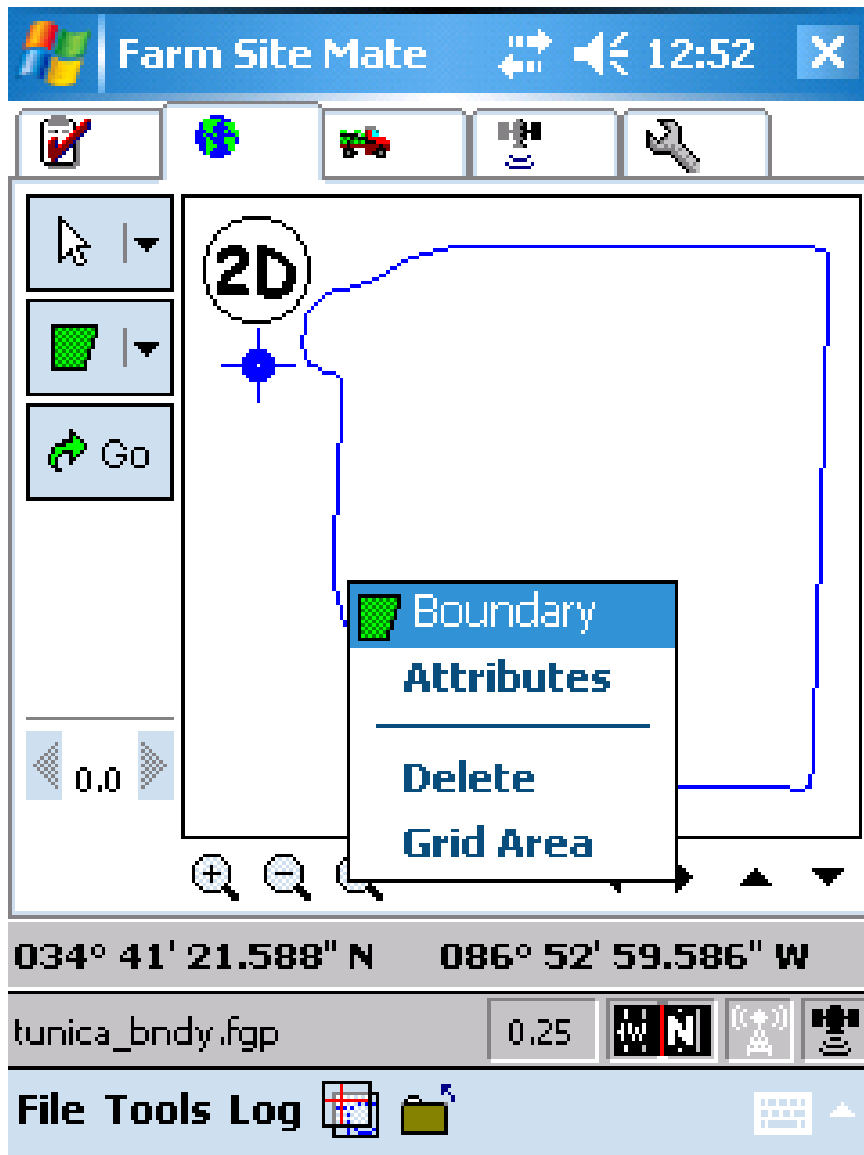Alabama Cooperative Extension System

1. Open Site Mate by clicking on the iPAQ's Start button and selecting Trac Mate - Site Mate from the drop down menu. (You can also select 'Programs' from the Start Menu and then select Trac Mate - Site Mate).

2. From the main page, select Open, New Scouting Job

New File

Filename: [   ]

Type: GPS Log (*.fgp) ▼

Folder:

- □ 📁 My Documents
  - 📁 Business
  - □ 📂 cotton_inc
    - 📝 tunica_bndy.fgp
  - ⊞ 📁 Hamilton Farms
  - 📁 Isbells
  - ⊞ 📁 Matt
  - 📁 My Music
  - 📁 My Pictures
  - 📁 Personal
  - 📁 SPRUELL ZONES

[✔ OK] [✗ Cancel]

3. Under Folder open 'My Documents' by selecting the '+' sign on the left hand side. Select the folder labeled Cotton_inc and the file tunica_bndy. Click **OK**.

4.Touch the stylus on the boundary and select Grid Area from the box.

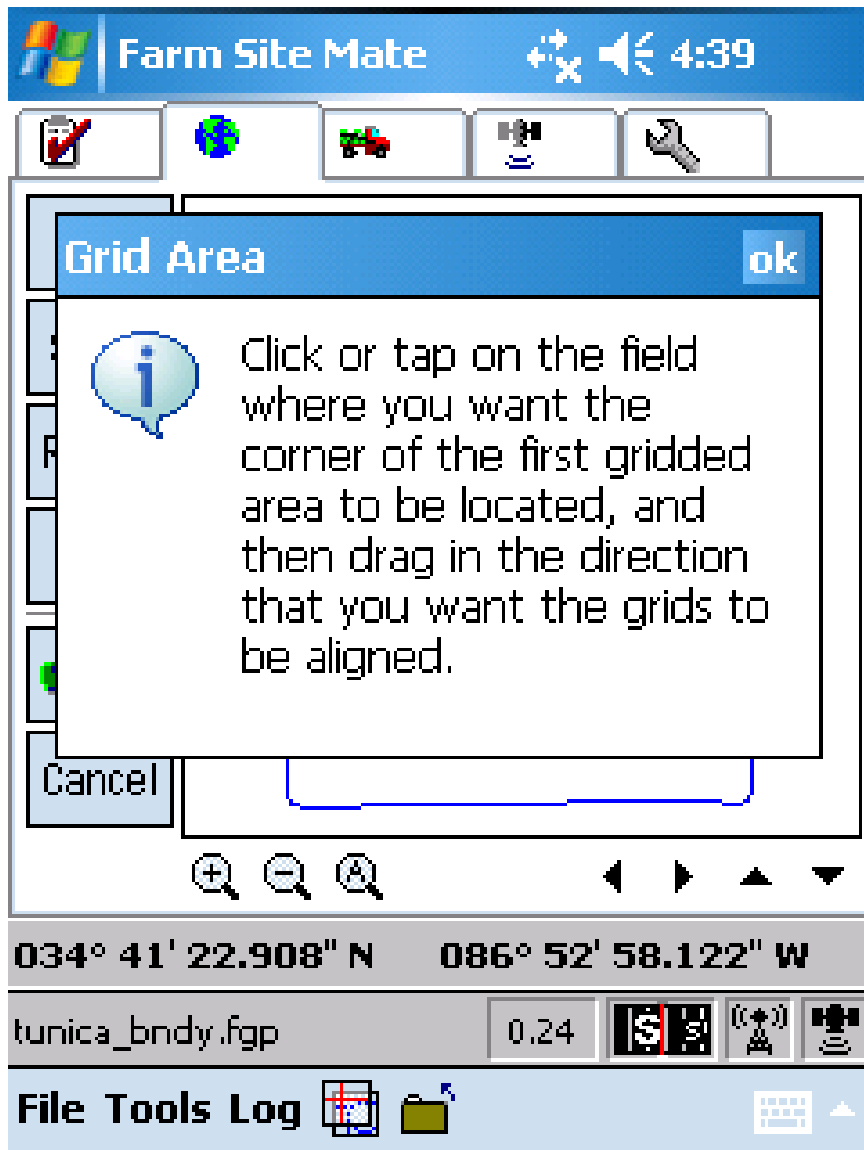## Create Sampling Grid

Shape

- ⦿ Square
- ◯ Rectangle

Size

`20.000`

- ⦿ feet
- ◯ Acres

Target Point Location

Center ▼
Center
Stagger Parallel
Stagger Perpendicular

✔ OK   ✕ Cancel

5. Select the shape, size and location of the sampling point location and click **OK**.

Grid Area ok

Click or tap on the field where you want the corner of the first gridded area to be located, and then drag in the direction that you want the grids to be aligned.

Cancel

034° 41' 22.908" N   086° 52' 58.122" W

tunica_bndy.fgp   0.24

File Tools Log

6. Follow the screen instructions to place and align the grid. Use the tools on the left to change grid size and rotate or move the grid placement. Click **OK** when finished.

Create Sampling Grid

File Name

\My Documents\cotton_inc\tunica_bndy_G
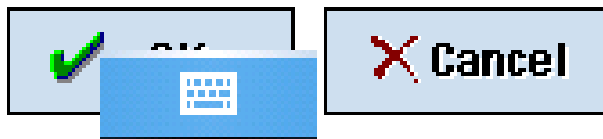
File Format

☑ ArcView Shape File (shp)
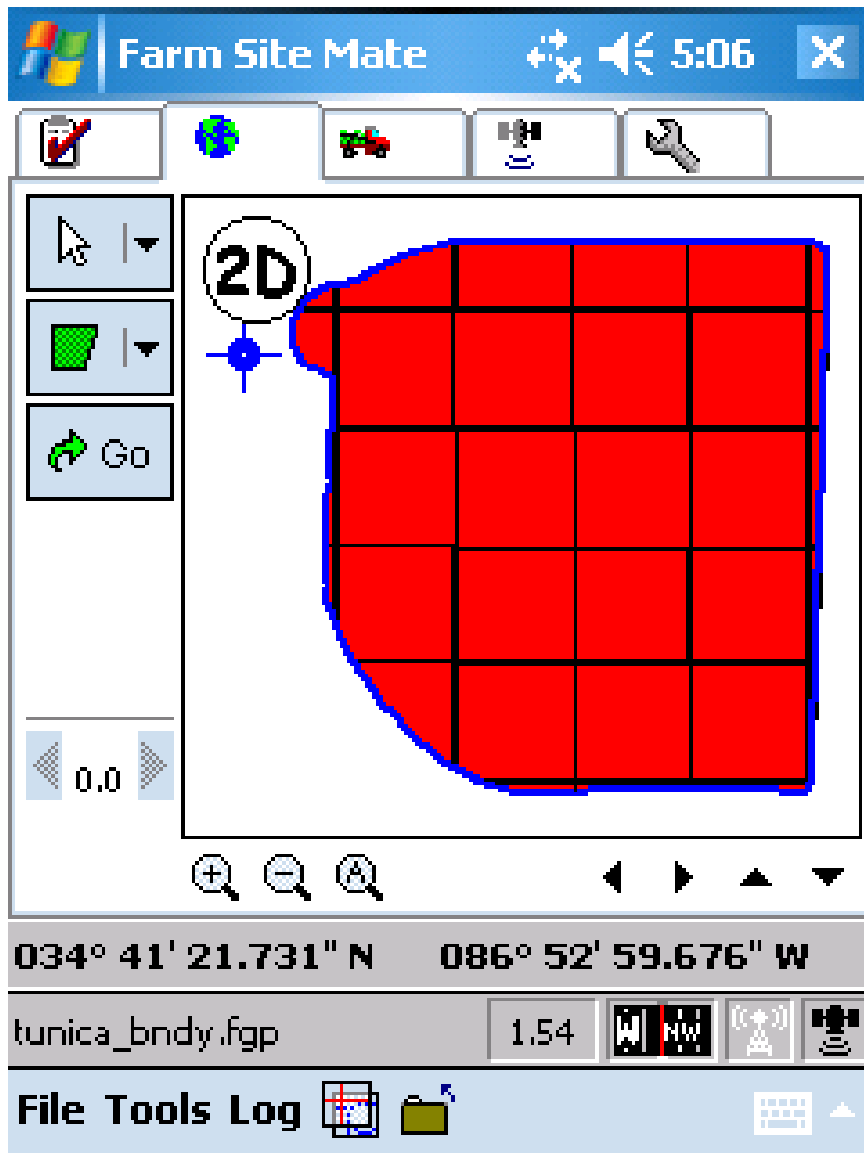
☐ MapInfo Interchange File (mif)

Object Type

☐ Points   ☐ Lines   ☑ Polygons

✔ OK   ✕ Cancel

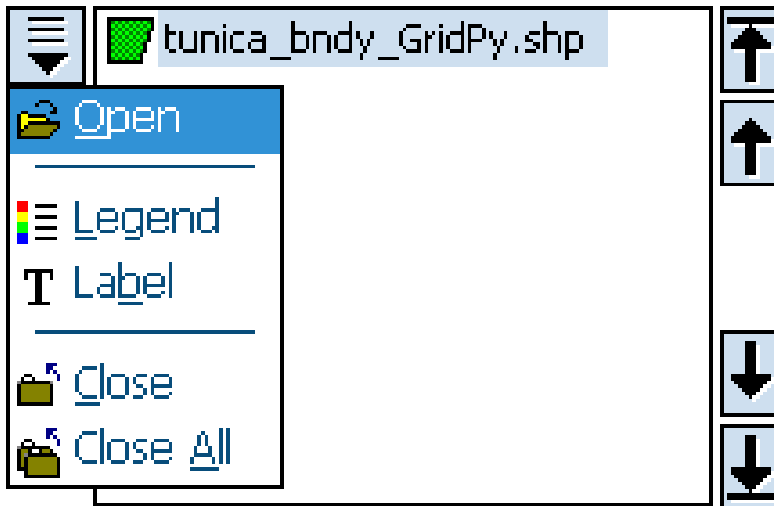7. Select ArcView Shape File and Polygons. Click **OK**.

8. The grid is now clipped to the field boundary. Select File – Layers and select the file tunica_bndy_GridPy.shp.

Background Layers

Background

	tunica_bndy_GridPy.shp

Open

Legend
T Label

Close
Close All

✔ OK   ✕ Cancel

9. Click on the arrow on the left side of the page and from the drop down menu select Label. Click **OK**.

Text

Text Display

Attributes

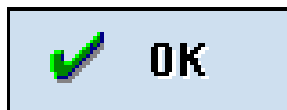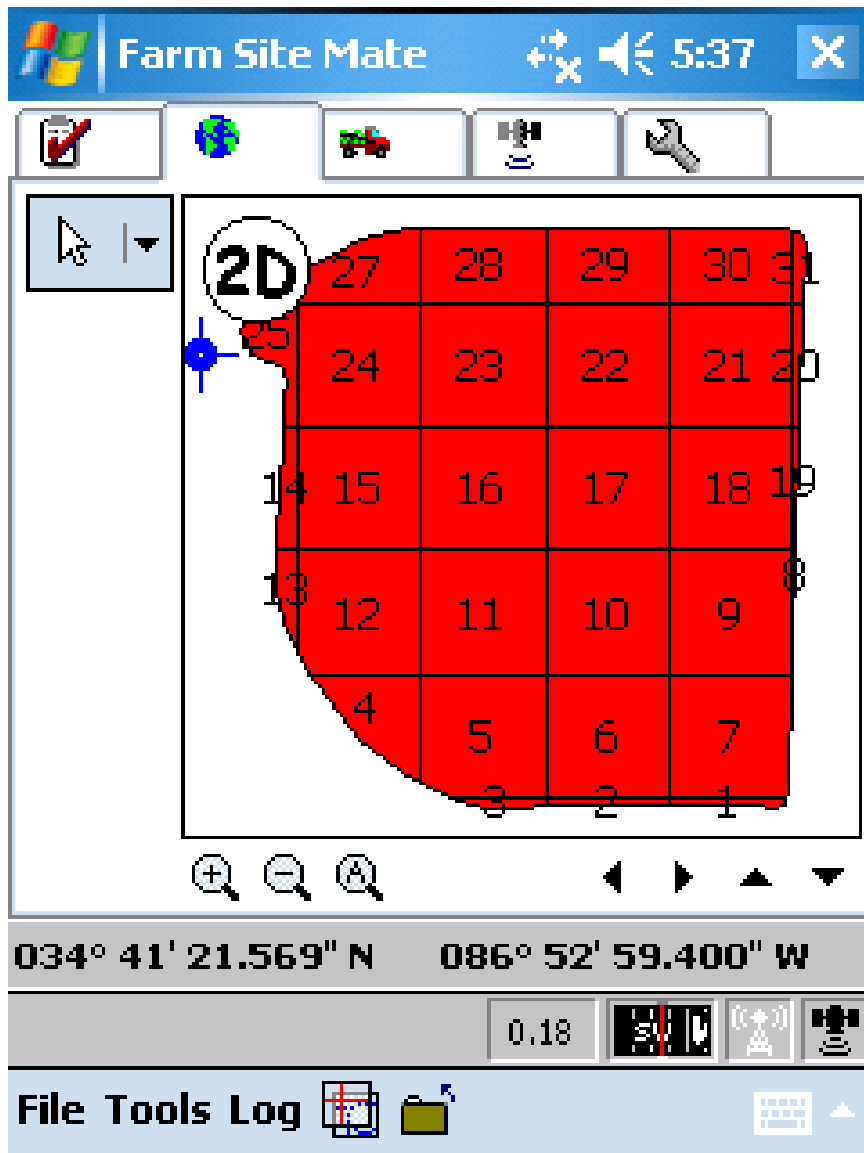| |
|---|
| Area |
| Length |
| SAMPLEID |

○ Opaque

◉ Transparent

✔ OK   ✕ Cancel
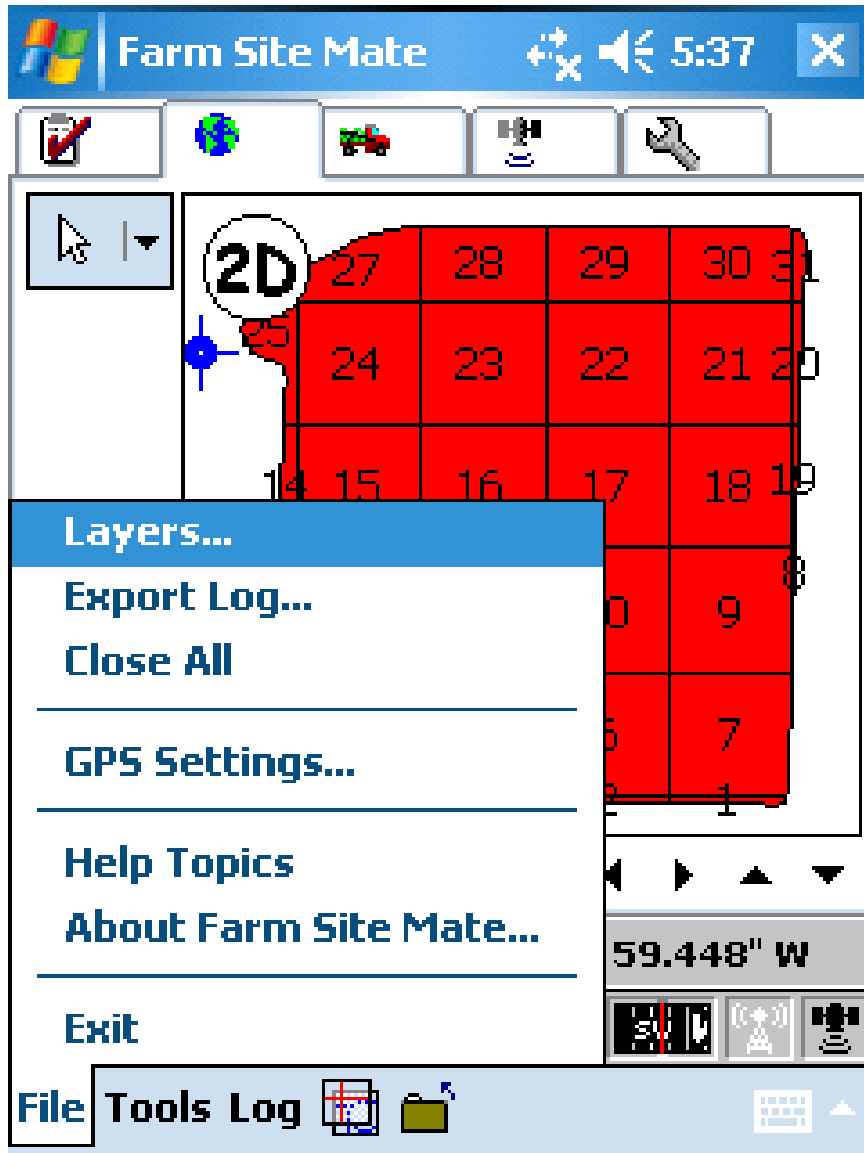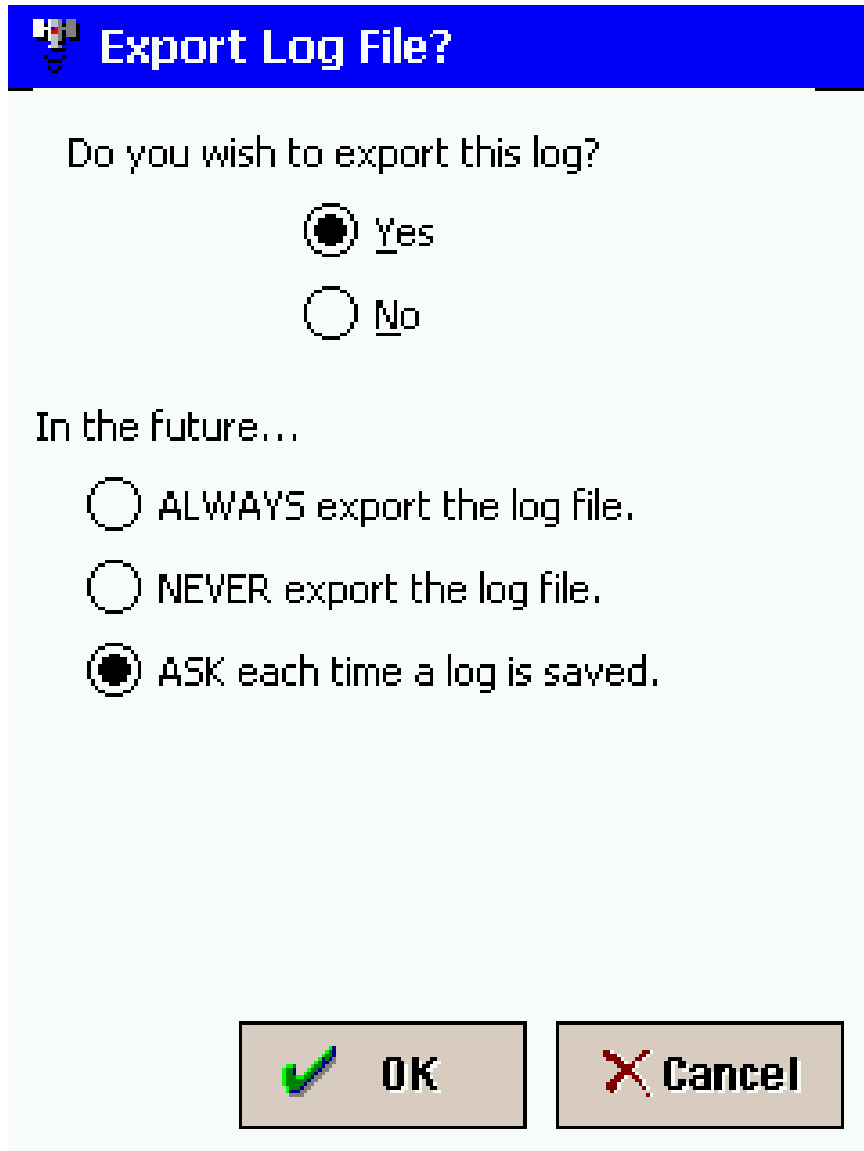
10. Select SAMPLEID and Transparent. Click **OK**. Click **OK** on the Layers page.

11. Each grid is now numbered and ready for sampling. Use grid numbers to label soil samples in order to match soil sample results with the correct location. Use the blue cursor on the screen to find the center of each grid.

Farm Site Mate 5:37

2D

27 28 29 30 31

25 24 23 22 21 20

14 15 16 17 18 19

Layers...

Export Log...

Close All

GPS Settings...

Help Topics

About Farm Site Mate...

Exit

59.448" W

File Tools Log

12. Select File – Close all.

Export Log File?

Do you wish to export this log?

- ● Yes
- ○ No

In the future...

- ○ ALWAYS export the log file.
- ○ NEVER export the log file.
- ● ASK each time a log is saved.

[✔ OK] [✗ Cancel]

11. Select Yes to export the log file and keep Ask each time selected. Click **OK**.

Export File

Export File Types

- [x] Arcview Shape File (shp)
- [ ] Mapinfo Interchange File (mif)
- [ ] Farm Works GPL File (gpl)

`\My Documents\cotton_inc` `...`

✔ **OK**   ✘ **Cancel**

12. Select ArcView Shape File to Export and browse to save under \My Documents\cotton_inc. Click **OK**.