

PDA - FIELD EXERCISE Casio

Exercise:

This activity will provide exposure in the utilization of field data collection technologies. This field exercise will provide you hands-on experience in using a personal digital assistant (PDA) to collect data, while the indoor session will focus on transfer, storage, and maintenance of data. The primary application used in this field session is the COE Routine Wetland Determination.

The exercise is designed to engage the user in data entry in just one type of field project, thus gaining an appreciation and better understanding of the benefits of this technology.

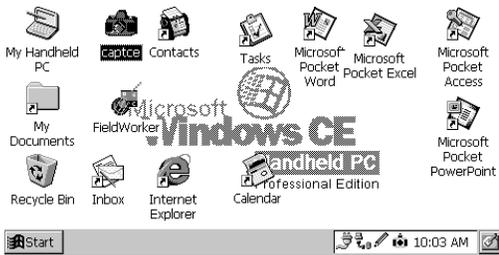


Figure 1.

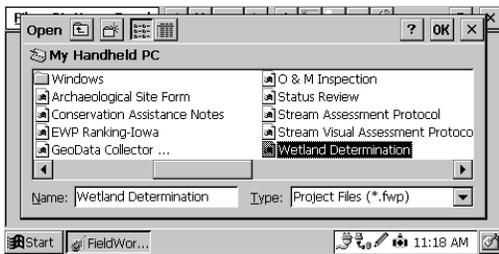


Figure 2.

Activity 1 - Getting Started

- Turn on the PDA (push button in upper-right corner of PDA)
- Adjust the contrast (left side of PDA) and locate the stylus (lower-right)
- Using the stylus double-tap FieldWorker from the start-up screen (Fig. 1)
Note: All further data entry is completed using the stylus

Activity 2 - Wetland Determination Project

- Select FILE>OPEN>Wetland Determination and OK (Fig. 2)
- Select "Station" and select "New"
- Hand print "1421" on the line next to STATION as a sample tract number

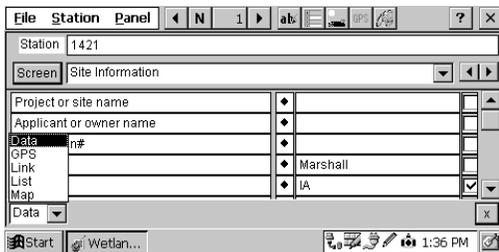


Figure 3a.

Activity 3: - GPS Tool

Note: Coordinate data may be collected as point, line, or polygon

- Select the menu in the lower-left portion of the screen (word "Data" should be there). (Fig. 3a)
- Select "GPS" from the menu. (Fig. 3b)
- Select the "Point" icon, a menu will appear allowing you to set the GPS data collection mode to Point, Line, or Polygon (for area feature).
- If a GPS receiver were connected to the PDA, the user would tap the "GPS" icon to start receiving GPS data. The GPS icon is tapped a second time to stop data acquisition.
- Now select the menu in the lower-left portion of the screen and select "Data" to return to the data entry screen.

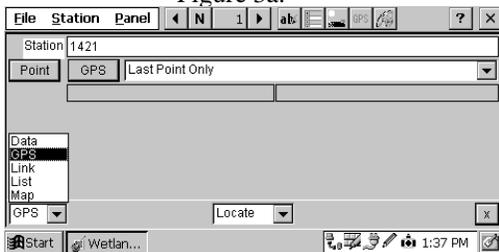


Figure 3b.

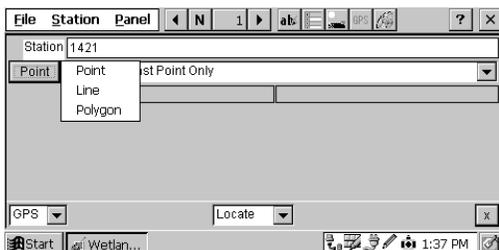


Figure 3c.

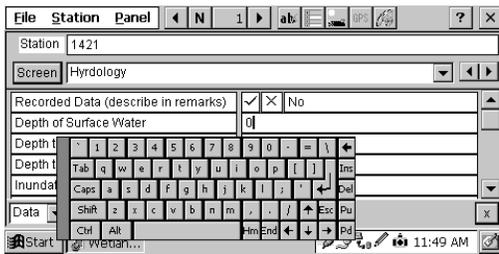


Figure 4.

Activity 4 - Data Entry Procedures

Note: Data may be entered in a number of different ways depending on how a given project was created.

Data can be entered into a data field through various tools in the FieldWorker project (Fig. 4):

- Select the **◆**, and choose an entry from the choice list.
- Tap a blank line for data input using built-in handwriting recognition or a keyboard (the keyboard is activated by selecting the "A" button on the front of the PDA).
- Select the **✓** or **X** boxes to indicate yes or no.
- "Remarks" screens require a typed or handwritten entry.
- Note "Sketch" fields are not configured to work on the Windows CE platform.

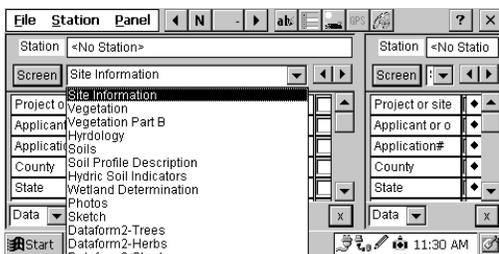


Figure 5.

Activity 5 - Site Information

- Select the pull-down menu next to "**Site Information**" (fig 5.); note the list of other screens. Select "Site Information"; enter the data below for each respective field.
- Project or site name: tap the line; hand-write **45 th Street**
- Applicant or owner name: tap line; hand-write **J. Johnson**
- Application#: (leave blank)
- County: select the **◆**, the J-O, then Marshall (Fig. 6)
- State: **IA** should already be entered, if not, enter it now
- Use the up/down arrows or scroll bar on the right-hand part of the screen to complete the following:
- Investigator: tap line; hand-write "**your name**" (e.g., Cory Brockmann) on the line.
- Community ID: tap line; use keyboard to enter a **"2"**
- Transect ID: (leave blank)
- Plot ID: tap line; type in a **"B"**
- Do normal circumstances exist on the site?: select **✓** for **Yes**
- Is the site significantly disturbed?: select **X** for **No**
- Is there a potential problem area?: select **X** for **No**
- Remarks: (leave blank)

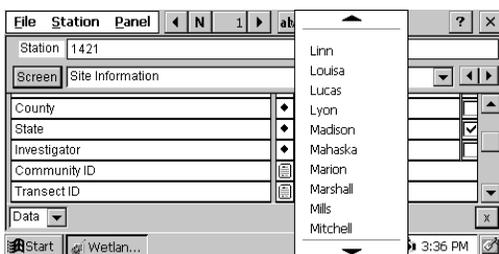


Figure 6.

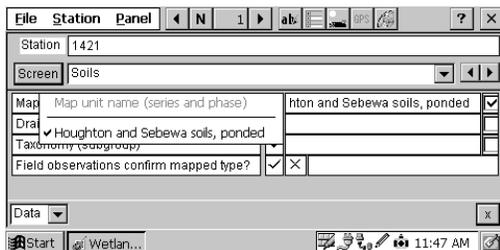


Figure 11.

Activity 8 - Soils

- Select the screen pull-down menu next to "Hydrology" and select "Soils"
- Enter the following:
 - Map Unit Name: **Houghton & Sebewa soils, ponded** (Fig. 11)
 - Drainage Class: **Very Poor**
 - Taxonomy (subgroup): **Typic**
 - Field observations confirm mapped type?: **YES**

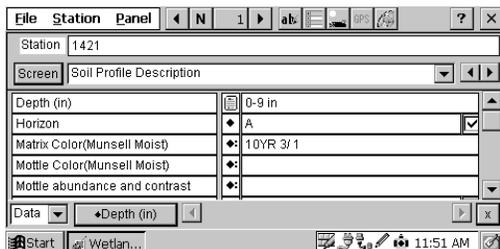


Figure 12.

Activity 9 - Soil Profile Description

- Select the screen pull-down menu next to "Soils" and select "Soil Profile Description"
- On the "Depth in" line, tap the line to the right,
 - Enter **0-9** (Fig. 12)
- On the "Horizon" line, select the "♦" to get a choice list.
 - Select **"A"**
- On the "Matrix Color" line, select the "♦" to get a multipick list.
 - Select **"10YR 3/1"** (on multipicks tap "10YR" then "3/" then "1" then tap anywhere on screen to release list)
- On the "Mottle Color" line, select the "♦" to get a multipick list.
 - (leave blank)
- On the "Mottle Abundance" line, select the "♦" to get a multipick list.
 - (leave blank)
- On the "Texture Concretions Structure etc" line:
 - Enter **"FSL"**
- Select the **"Depth in" button** (lower left) and select **"Add"** to enter each new set of profile data listed below (use scroll bar as needed):

Depth:	9-14	14 -
Horizon:	B	(leave blank)
Matrix Color:	10YR 4/1	10YR 5/1
Mottle Color:	7.5 YR 6/6	7.5 YR 5/6
Mottle Abundance:	Few, Distinct	Common, Distinct
Texture Concretion:	CL	CL

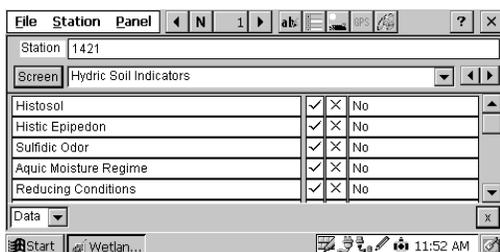


Figure 13.

Activity 10 - Hydric Soil Indicators

- Select the screen pull-down menu next to "Soil Profile Description" and select **"Hydric Soil Indicators"** (Fig. 13)
- Enter the following:
 - Histosol: **NO**
 - Histic Epipedon: **NO**
 - Sulfidic Odor: **NO**
 - Aquic Moisture Regime: **NO**
 - Reducing Conditions: **NO**
 - Gleyed or Low-Chroma Color: **YES**
 - Concretions: **NO**
 - High Organic Content...: **NO**
 - Organic Streaking...: **NO**
 - Listed on local hydric...: **YES**
 - Listed on national hydric.: **YES**
 - Other (explain in remarks): **NO**

Remarks: (leave blank)

File Station Panel		
Station	1421	
Screen	Wetland Determination	
Hydrophytic vegetation present?	<input checked="" type="checkbox"/>	Yes
Wetland hydrodology present?	<input checked="" type="checkbox"/>	Yes
Hydric soils present?	<input checked="" type="checkbox"/>	Yes
Is this sampling point within a wetland?	<input checked="" type="checkbox"/>	Yes
Remarks		
Data		

Figure 14.

Activity 11 - Wetland Determination

- Select the screen pull-down menu next to "Hydric Soil Indicators " and select "**Wetland Determination**"
- Enter the following: (Fig. 14)

Hydrophytic vegetation present?: **YES**
 Wetland Hydrology Present: **YES**
 Hydric Soil Present: **YES**
 Sampling Point Within a Wetland: **YES**

Remark: (leave blank)