PRINTING GROWER FIELD MAPS OFF THE WEB   10-30-14

A. Google Earth:

Pros: Very easy to use; easy to print map); easy to scale up or down; locator makes finding field area easy; streets, towns, and rivers labeled; possible to put icons, field borders, and TRS in on fields (via "My Places" layer). **Cons**: Must download program (free); and scale not easy to set exactly. http://earth.google.com/

B. NRCS Web soil survey: **http://websoilsurvey.nrcs.usda.gov/app/**

Pros: Web-based and free; locate fields by a large variety of methods including address, state/county, latitude/longitude, TRS; township/range shown, in some areas section borders are shown; streets, cities, and rivers labeled; scale precise and adjustable; easy to print image directly. **Cons**: Only a ½-page map printed that contains web page 'clutter' on it.

Quick Direct-Printing of Grower Field Maps Off The Web

A. GOOGLE EARTH:

(1) Install: If the program is not already installed on your computer, download Google Earth (go to http://earth.google.com/ and follow instructions for a free download). A useful additional add-on to Google Earth (also free) that will place the Township-Range-Section (TRS) lines on your map is obtained by clicking on: http://www.metzgerwillard.us/plss/plss.html and then clicking on "download PLSGE" in the first paragraph.

(2) Open: Start up Google Earth.

(3) Locate Area: On the "**Fly To**" tab (upper left corner, under "search") Type in the town nearest to field (i.e. "Harrisburg, OR"). You can also type the latitude/longitude on this line if you know it.

(4) Prepare screen: Under "**View,**" turn on "**Scale Legend**" and if you don't want them to show up on your printed map, turn off "**Navigation bar**" and "**Status bar**"

(5) Find Field: Select area of interest by holding down left mouse button and dragging map to locate your field(s). The mapped field should be located near the center of the map. All field borders and *at least* 2 labeled roads (if possible) should be visible on the map. You can also use the arrow keys to move the map around in a linear manner, and zoom in and out with the scrolling wheel. If you have the PLSGE feature installed on your Google Earth (see above) you can obtain the correct TRS off the map (you will need to be sure the "townships" button on the PLSGE is selected).

(6) Print: Print directly from Google Earth by selecting the print icon on the tool bar (upper part of the screen), selecting "Graphic of 3D View" (or "Screenshot of current 3D view" in some versions of Google Earth) and proceed to print. This generally results in a fairly clean (uncluttered) ½ page map.   To print labeled full-page maps, adjust the area Google Earth is displayed on your monitor to approximately match your paper size (i.e., if the area on the screen is roughly 8.5" with and 11" height, the map printed will fill a standard 8.5x11 inch piece of paper).

(7) Borders & Roads: Be sure the field borders are clearly and boldly outlined, and names of adjacent roads appear on the map (you may have to write them in).

B. NRCS WEB SOIL SURVEY:

(1) **Open: http://websoilsurvey.nrcs.usda.gov/app/** in your browser.

(2) **Start program**: Click "**Start WSS**" (big green button)

(3) **Locate field area**: Under "**Quick Navigation**" either on the left side or bottom of the screen) select the way you want to locate your field. Choices include address, state/county, latitude/longitude, and TRS, or simply select an area by holding down the left mouse button and marking in a box over the area your field is in and releasing mouse button (will take several repeats to get to your field area).

(4) **Locate field**: When you are in the approximate area of your field, you can drag the screen map to your field by selecting the little hand on the tool bar (top of screen) and holding the left mouse button down while you move the cursor across the screen in the direction you want the map to move (i.e., to move the map west, hold the left mouse button down and move the map to the right).

(5) **Correct the scale**: Select the scale you wish to print using the "Scale" button. OSCS no longer requires 660-scale maps, so the scale chosen should be one that shows the entire field and at least 2 adjacent public roads (if possible).

(6) **Print the map: File → "Print**" (depending on your browser). This will print a ½ page map with a lot of web page 'clutter ' on it. There will less 'clutter' on the map if you show the navigation on the bottom of the page rather than the left side (see small icons in the upper right corner of the displayed map). The one way to print a 'clean' full-page map is to do a screen capture of the area of the map you want, and then print the screen capture image. If the area of your screen capture is approximately the same dimensions as your paper (i.e. 8.5" by 11") the printed map will fill the page.

(7) **Borders & Roads**: Be sure the field borders are clearly and boldly outlined, and <u>names</u> of adjacent roads appear on the map (you may have to write them in).