DNR Garmin Settings for NRCS Users

Abstract
This guide outlines the best settings in DNR Garmin for NRCS users, covering projections, tabular properties, communications port, and baud rate as well as how to make these settings.

Steps: Set File > Set Projection to NAD 1983 UTM Zone 16N – Set PRJ Definition to Projected, Utm, NAD 1983, NAD 1983 UTM Zone 16N.prj – Set GPS > Baud Rate to 9600 – Deactivate unnecessary Waypoint or Track table columns (optional)

Details

1. *Projection*:
   Projection should be set to ESRI, NAD_1983_UTM_Zone_16N.

   a) To check your current projection, **click** *File > Get Projection*. The current projection will be displayed and you can **click *OK*** to exit the displayed result.

   b) To set your projection, if necessary:

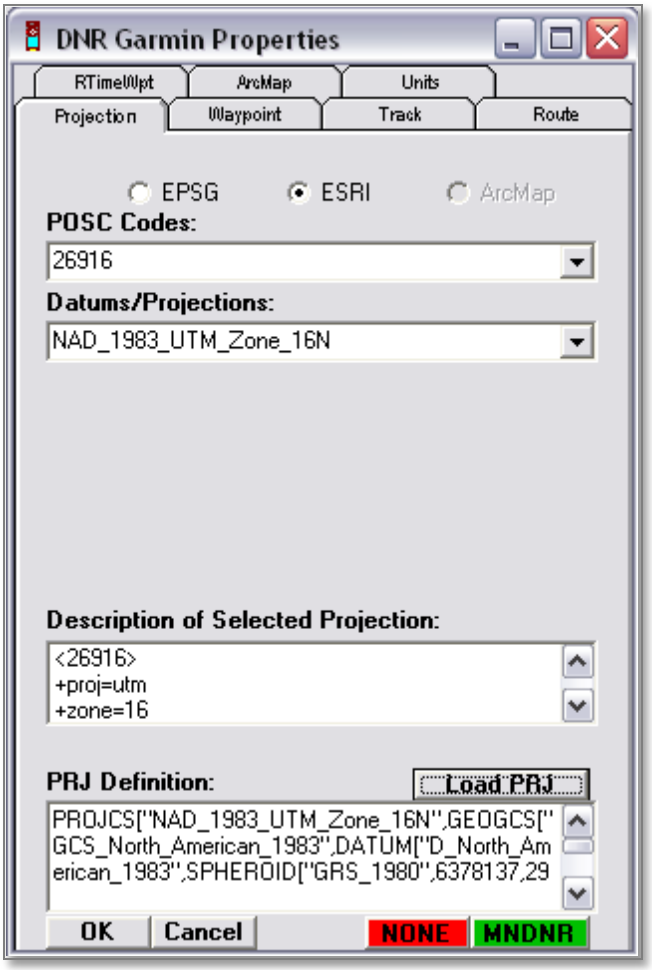
      i. **Click** *File > Set Projection*.
      ii. **Click** the *ESRI* radio button at the top of the Projection Properties tab.
      iii. **Find** your projection in the *Datums/Projections* list
      OR
      Type the short code for your projection in the POSC Code box to jump to your projection and then **click** on the Datum/Projection name to select it.

      (POSC Code for NAD 1983 UTM Zone 16N = 26916)

   c) You must also set the PRJ Definition to match your projection.

      i. **Click *Load PRJ***
      ii. **Double-click** *Projected Coordinate Systems*
      iii. **Double-click** *Utm*
      iv. **Double-click** *Nad 1983*
      v. **Select** *NAD 1983 UTM Zone 16N.prj*
      vi. **Click *Open***

   d) **Click *OK***

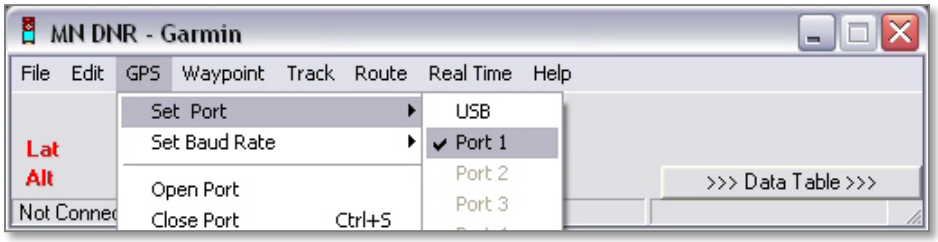


2. *Com Port:*
   a) To check the com port, **click** *GPS* > *Set Port*.

   b) *Port* settings vary:

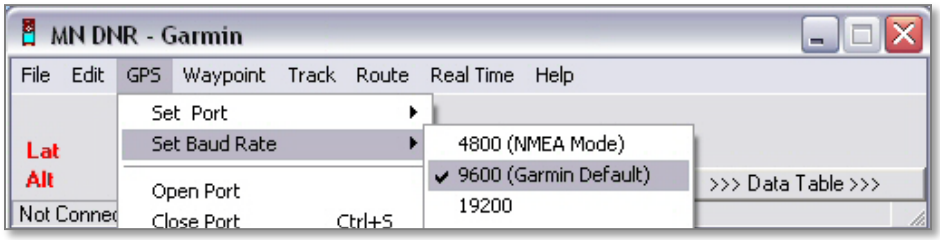
   When using DNR Garmin and connecting to a serial GPS unit (connecting to a GPS Map 76 or 78), you may need to try different Ports under the *GPS* > *Set Port* menu, or use the *USB* port with certain USB cable converters.

   When connecting to a Garmin Oregon 550(t) unit, you'll choose *USB* as the port.



3. *Baud Rate*: 9600
   a) To check the baud rate, **click** *GPS* > *Set Baud Rate* >.

   b) *9600 (Garmin default)* should be checked.

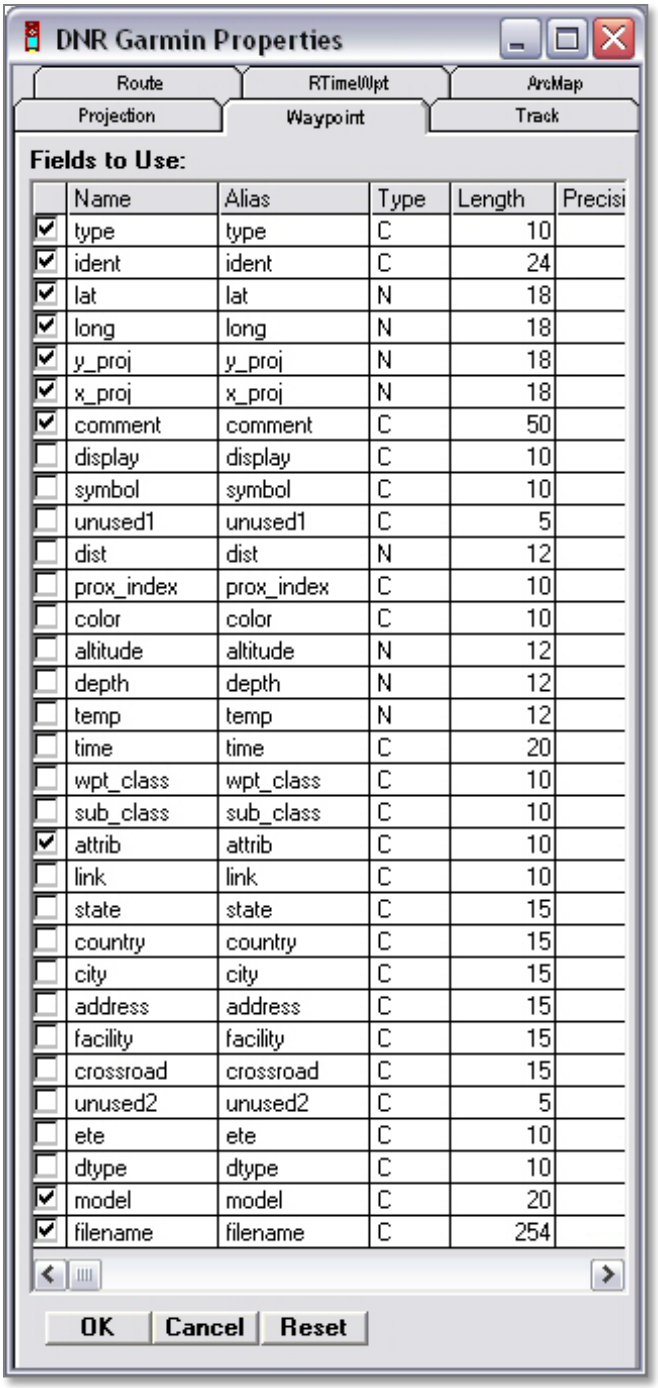


4. Tabular Settings

These settings control which columns appear in the DNR Garmin table when working with points. The options vary depending on the type of points to be worked with (Waypoint, Route, Track, or Real Time). All point types are set the same way. This section will describe how to make these settings, and then list the typical data columns to use for each point type. Users are encouraged to deactivate unneeded columns per this page to reduce the number of [empty] fields in resulting shapefile data.

a) To set the properties of Waypoints, Routes, Tracks, or Real Time points, **click** the corresponding *menu* in DNRGarmin and then **click** the *Properties…* choice at the bottom of that menu.

b) A table with check boxes will appear listing all possible columns to display for the point type. To use a column, its box should be checked. To turn a column off, its box should be unchecked.



	Name	Alias	Type	Length	Precisi
☑	type	type	C	10	
☑	ident	ident	C	24	
☑	lat	lat	N	18	
☑	long	long	N	18	
☑	y_proj	y_proj	N	18	
☑	x_proj	x_proj	N	18	
☑	comment	comment	C	50	
☐	display	display	C	10	
☐	symbol	symbol	C	10	
☐	unused1	unused1	C	5	
☐	dist	dist	N	12	
☐	prox_index	prox_index	C	10	
☐	color	color	C	10	
☐	altitude	altitude	N	12	
☐	depth	depth	N	12	
☐	temp	temp	N	12	
☐	time	time	C	20	
☐	wpt_class	wpt_class	C	10	
☐	sub_class	sub_class	C	10	
☑	attrib	attrib	C	10	
☐	link	link	C	10	
☐	state	state	C	15	
☐	country	country	C	15	
☐	city	city	C	15	
☐	address	address	C	15	
☐	facility	facility	C	15	
☐	crossroad	crossroad	C	15	
☐	unused2	unused2	C	5	
☐	ete	ete	C	10	
☐	dtype	dtype	C	10	
☑	model	model	C	20	
☑	filename	filename	C	254	

These are lists of recommended tabular columns by point types. Note that some columns are required and cannot be deactivated.

Waypoint:
type, ident, lat, long, y_proj, x_proj, comment, attrib, model, filename, ltime

Track:
type, ident, lat, long, y_proj, x_proj, new_seg, model, filename, ltime

Route:
type, ident, lat, long, y_proj, x_proj, new_seg, rnumber, rident, rcmnt, comment, attrib, model, filename, ltime

Real Time:
type, ident, lat, long, y_proj, x_proj, date, time, filename, ltime