**FIA tables and columns to import to BIEN**

For initial construction of unique plotCode and plotCensusCode, and subsequent pruning of plots, download the following four tables for each state.

\_COND

\_PLOT

\_SUBPLOT

\_TREE

After pruning is complete, import the following tables as well. They will be used to "decode" values in some column in the above tables:

REF\_SPECIES. Species codes and taxonomic details. One table only. Use to decode TREE.SPCD and extract taxonomic information

REF\_PLANT\_DICTIONARY. One table only. I'm not sure whether this is also needed, or should be used instead of REF\_SPECIES. Have a look at the FKs then decide which would be easier to use for converting species codes in table TREE into scientific names.

REF\_HABTYP\_DESCRIPTION. Standard habitat names. One table only. Use to extract a name of description of the habitat or forest type at the location of then plot.

\_COUNTY. Full county names. Download for each state and compile to single table.

Finally, import the following columns to BIEN:

plotCode – unique identifier of a plot. Construct as per instructions for filtering.

plotCensusCode – unique identifier of a particular census of a plot. Construct as per instructions for filtering. We only use the latest census for each plot in BIEN. Construct as per instructions for filtering. if necessary, we can parse the original codes for state, county, plot and inventory year (if for some reason we need to join back to original data)

PLOT.STATECD - These are FIPS codes. Our GNRS scripts should be able to convert these to full state names

county – converted from PLOT.COUNTYCD by linking to COUNTY.

PLOT.MEASYEAR – use to construct dataCollected

PLOT.MEASMON – use to construct dataCollected

PLOT.MEASDAY – use to construct dataCollected

PLOT.LAT

PLOT.LONG

PLOT.ELEV

COND.SLOPE

COND.ASPECT

TREE.SUBP

TREE.CN – treat this as the ID for the stem.

TREE.TREE – Not sure if we need this. Please check to see if this is the ID for an individual tree, and CN is the ID for a stem.

TREE.SPCD – Species code. Join to table REF\_SPECIES to extract actual species name

TREE.DIA – dbh in inches (convert to cm) IF DIAHTCD=1. Otherwise, measured at ground level (see DIAHTCD).

TREE.DIAHTCD – Important. DIAHTCD=1: DIA measured at breast height (=dbh); DIAHTCD=1: DIA measured at root crown (basically, near ground). We should discuss where to put these measurements.

TREE.HT – height in ft. Convert to m.

REF\_HABTYP\_DESCRIPTION.COMMON\_NAME. This is the common name of the habitat (vegetation type) where the plot is located. Treat this as the habitat description for the locality. Link to plot by joining to COND. HABTYPCD1.