

Supplementary material

Table S1. The seven key FIA data tables used by the PyFIA program.

Table Name	Description	Key Fields
TREE	Individual tree attributes, including species, diameter, and biomass.	PLOT (Plot ID), SPCD (Species code), DIA (Diameter at breast height), HT (Tree height), CARBON_AG (Aboveground carbon), STATUSCD (Tree status)
COND	Forest conditions, such as stand age.	PLOT (Plot ID), CONDDID (Condition ID), STDAGE (Stand age), FORTYPECD (Forest type code),
PLOT	Geospatial coordinate and expansion factor.	PLOT (Plot ID), LAT (Latitude), LON (Longitude), PLOT_STATUS_CD (Plot status), EXPNS (Expansion factor)
COUNTY	Administrative information such as county name.	STATECD (State code), COUNTYCD (County code), COUNTYNAM (County name)
TREE_GRM_ESTN	Tree-level estimates of growth, removals, and mortality.	PLOT (Plot ID), CYCLE (Inventory cycle), BIO_REMOVALS (Biomass removals)
POP_PLOT_STRATUM_ASSGN	Assigns plots to specific inventory strata.	STRATUMCD (Stratum code), STATECD (State code), COUNTYCD (County code)
POP_STRATUM	Stratum-level area estimates, allowing statistically extrapolation of plot-level data to the state level.	STRATUMCD (Stratum code), EXPNS (Expansion factor), COUNTYCD (County code)