BioSum 5.12.0 Release Notes  
September 12, 2025

**Current Release Notes (5.12.0)**

**Existing legacy projects must be at v5.11.2 to be upgraded to v5.12.0. Because of numerous database changes, once a project is migrated to v5.12.0, it must not be opened again in v5.11.2 as doing so may corrupt the project irretrievably. Making a backup copy of a project before upgrading is always recommended.**

1. **master.db:** The plot, cond, tree, sitetree, and biosum\_pop\_stratum\_adjustment\_factors tables previously in the master.mdb have been migrated to an SQLite database. The schemas for these tables have been modified as needed to reconcile them with FIADB updates. The biosum\_pop\_stratum\_adjustment\_factors is a product of plot loading and will not be migrated for legacy projects. The master.mdb will be available as a reference for legacy projects.
2. **ref\_master.db**: The harvest\_methods, site\_index\_equations, and TreeMacroPlotBreakPointDia tables previously in the ref\_master.mdb have been moved to the AppData\biosum\_ref.db. The remaining tables in ref\_master.mdb are no longer used. The SQLite version of this database (ref\_master.db) contains a single new table (road\_class\_to\_ft\_xref) that is used to calculate the plot.gis\_yard\_dist\_ft value.
3. **Tree species changes:** The structure for managing tree species translation has been modified in v5.12.0. There is no longer a project-specific tree\_species table to maintain nor an fvs\_tree\_species table to translate from FIA to FVS species code. BioSum now relies on FIADB to maintain tree species translations. All tree species specific configurations are in the AppData\biosum\_ref.db\FIA\_TREE\_SPECIES\_REF table. This table is maintained by the BioSum administrator and should not be edited by analysts.

The FVS and Processor tree species audits still exist to identify unrecognized tree species but they have been simplified and no longer support edit capability.

1. **Plot FVS Variants:** This function has been removed. BioSum now populates the FVS variants from the FIADB plotgeom table. The fiadb\_fvs\_variant table is no longer used.
2. **Data Source Edit:** This screen has been simplified and now supports SQLite data sources only in the Processor and Optimizer modules.
3. **Package and Condition Zappers:** These functions are once again available from the Database menu

**Summary of database table changes**

|  |  |  |
| --- | --- | --- |
| **Table name** | **v5.11.2 Path** | **v5.12.0 Path** |
| biosum\_pop\_stratum\_adjustment\_factors | \db\master.mdb | \db\master.db |
| cond | \db\master.mdb | \db\master.db |
| FIA\_TREE\_SPECIES\_REF | AppData\biosum\_ref.accdb | AppData\biosum\_ref.db |
| fiadb\_fvs\_variant | AppData\biosum\_ref.accdb | N/A |
| fvs\_tree\_species | AppData\biosum\_ref.accdb | N/A |
| owner\_groups | \db\ref\_master.mdb | N/A |
| plot | \db\master.mdb | \db\master.db |
| road\_class\_to\_ft\_xref | N/A | \db\ref\_master.db |
| sitetree | \db\master.mdb | \db\master.db |
| tree | \db\master.mdb | \db\master.db |
| tree\_species | \db\ref\_master.mdb | N/A |
| TreeMacroPlotBreakPointDia | \db\ref\_master.mdb | AppData\biosum\_ref.db |
| TreeSample | \Program Files\FIA Biosum Manager\treesample.mdb | AppData\FIABiosum\ treesample.db |