

FIESTA – AN R ESTIMATION TOOL FOR FIA ANALYSTS

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Abstract—FIESTA (Forest Inventory ESTimation for Analysis) is a user-friendly R package that was originally developed to support the production of estimates consistent with current tools available for the Forest Inventory and Analysis (FIA) National Program, such as FIDO (Forest Inventory Data Online) and EVALIDator. FIESTA provides an alternative data retrieval and reporting tool that is functional within the R environment, allowing customized applications and compatibility with other R-based analyses. Over the last few years, the tool has expanded to include new modules that accommodate nonresponse, photo-based estimators, two-phase regression estimators for inclusion of temporal remote sensing data, as well as small area estimates. Here, we describe these new modules and illustrate with FIA applications in the Interior West.

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