

Progress Report

Assessing and mapping regional variation in potential site carrying capacity

CAFS 19.76

Dr. Mark Kimsey, University of Idaho
Dr. Aaron Weiskittel, University of Maine
Dr. Rachel Cook, North Carolina State University
Dr. Cristian Montes, University of Georgia
Dr. Douglas Mainwaring (OSU)
Dr. Eric Turnblom, University of Washington

Presenters: Jaslam Poolakkal, Dr. Mark Kimsey,



Project Overview



Synthesize a nationwide forest inventory database from publicly available data and from CAFS Members



Standardize maximum carrying capacity modeling, and



Create efficiencies for multi-regional forest management organizations by providing consistent, species-site-silviculturally sensitive, wall-to-wall spatial models of SDImax for commercial species of the United States.



Current Progress

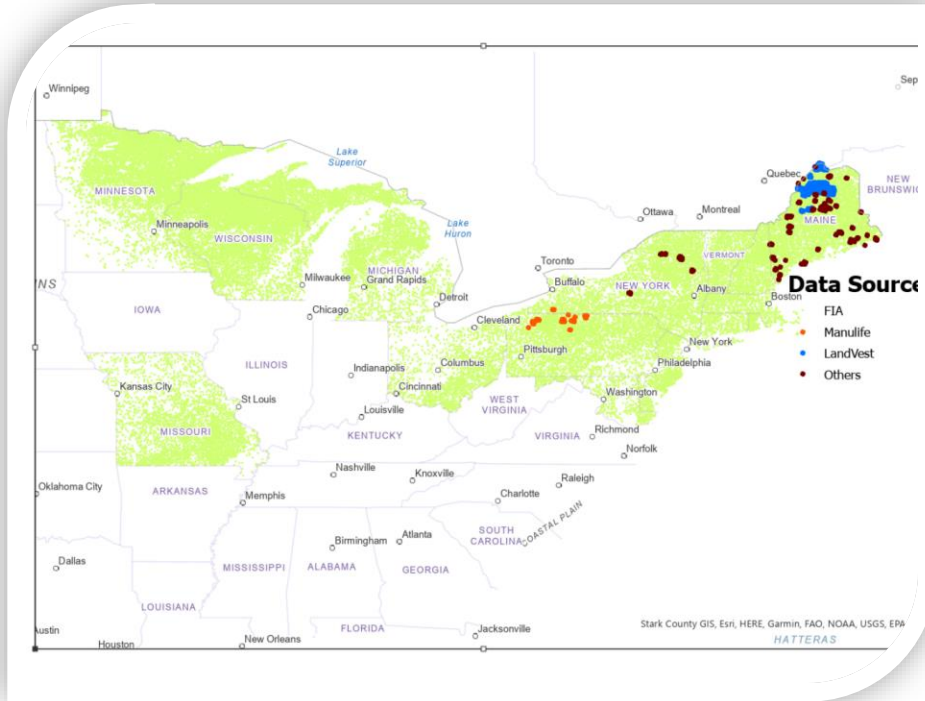
Northwest regional SDImax models are being shared satisfactorily (Web apps and raster's).

Data is prepared for SDImax modeling. Currently, we are analyzing and reviewing existing regional models to standardize Maximum Carrying Capacity modeling.

The SDImax model build for loblolly pine in the southern United States, is sensitive to site, stand, and silvicultural treatments, and it is validated by local experts.

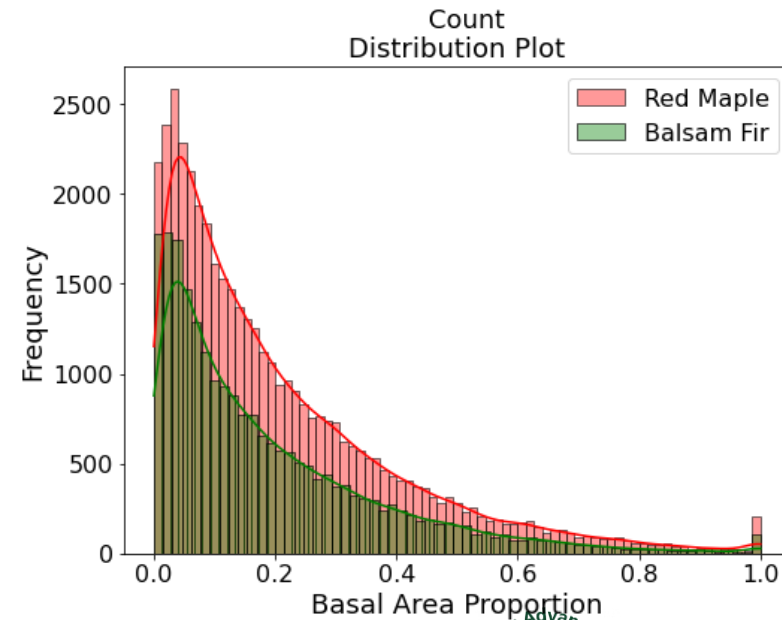
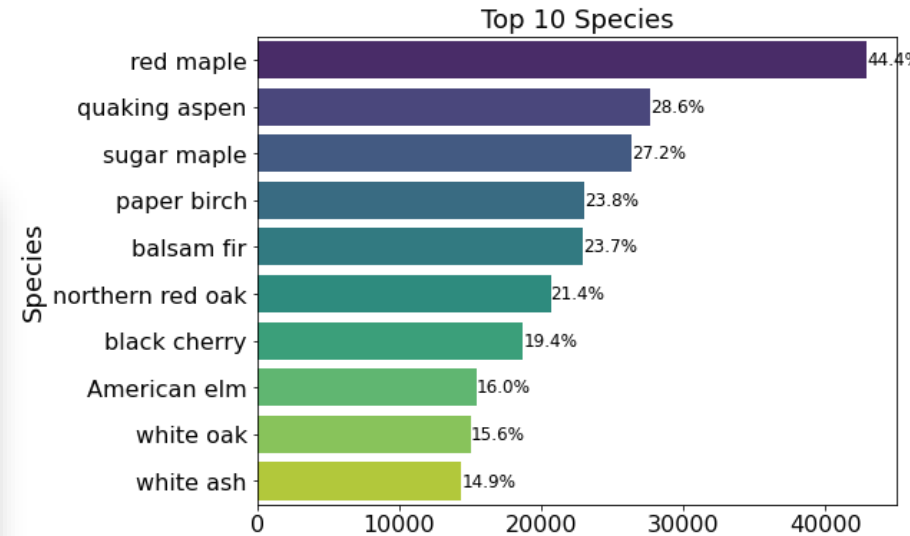


Northern Region SDImax Data



FIA - 34,759
Industry and Research Data - ~5000

Current Progress



Future Plans

Northern Region

- Meeting with SDImax model researchers in the region to learn about crucial covariates for modeling (specific gravity, shade tolerance, forest type, and hardwood-softwood proportion etc.)
- SDImax modeling for commercial species.

Southern Region

- Generating a GeoTiff for the loblolly pine SDImax model, once we get the final modified soils layer from the Forest Productivity Coop at NCSU, we'll send it for review by our Members.
- Exploring SDImax modeling for other species based on data availability and member interest.

Pacific Northwest

- Enhance and standardize SDImax models by incorporating additional data received/expecting from members.

