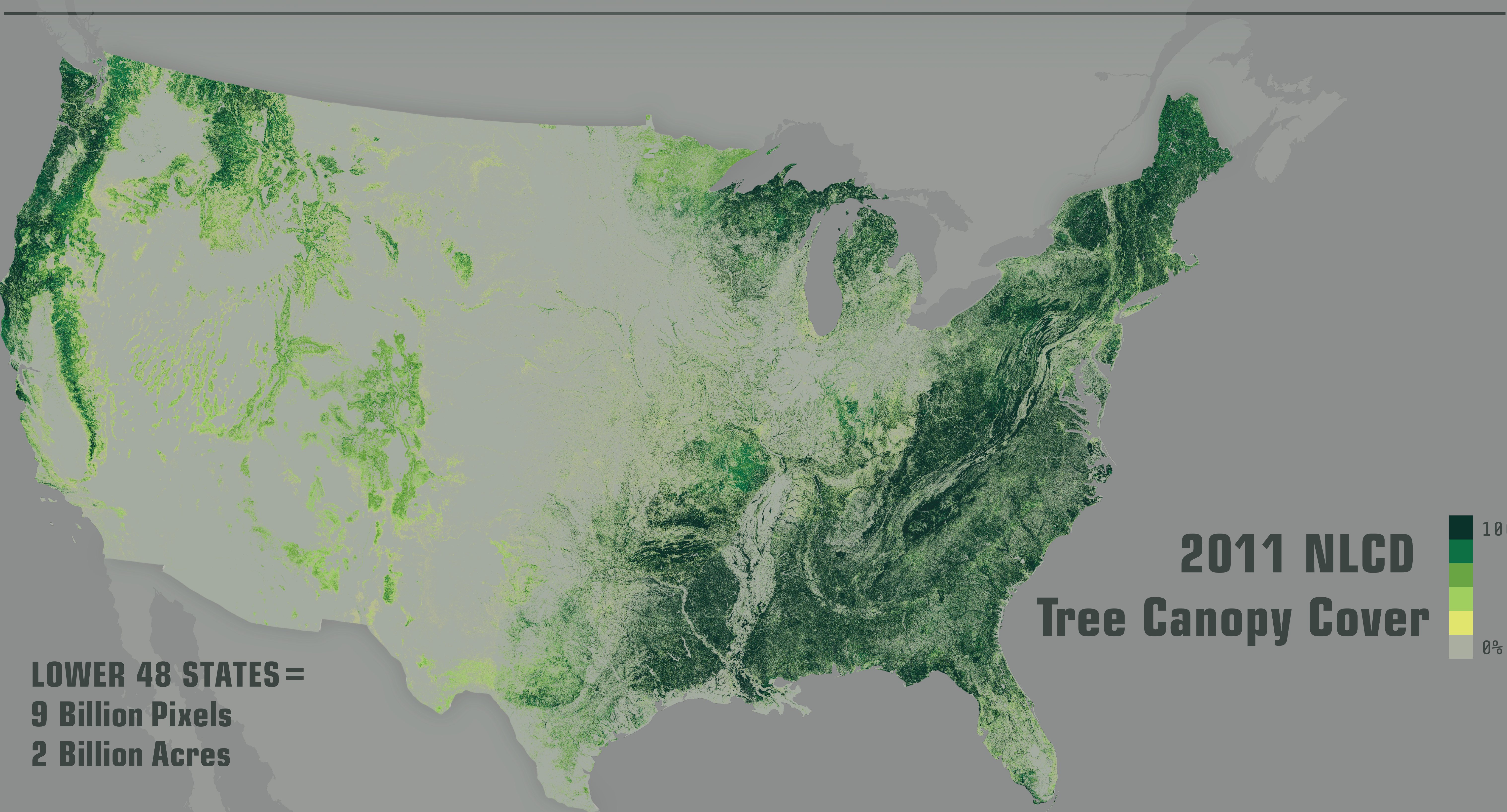





United States Department of Agriculture
Forest Service

INGREDIENTS OF A NATIONWIDE MAP

The USFS Geospatial Technology and Applications Center (GTAC) is responsible for producing and maintaining the National Land Cover Database (NLCD) Tree Canopy Cover (TCC) product. Percent tree canopy cover was mapped for the contiguous United States using Landsat imagery, topographic data, photo-interpreted training data, and the modeling algorithm randomForest. NLCD products are updated on a five-year cycle, with the next version of the NLCD-TCC products (2016) being released in 2018.



GEOSPATIAL DATA




20 Landsat Bands and Derivatives

438 Landsat Path/Rows

2,244 Landsat Scenes

5 Topographic Layers

62,441 Photo-interpreted Training Sites



MAP DEVELOPMENT





8 High-end Workstations

17,285 Lines of Python Code


1 Modeling Algorithm (randomForest)

4 Geospatial Wizards


5 YEAR CYCLE




USES




Topographic Maps




Fire Behavior




Biomass



Habitat Modeling



Urban Forests



Statistical Analysis

GTAC Geospatial Technology and Applications Center | Mapping Our Future Together

CONTACT Stacie Bender, Geospatial Specialist, staciebender@fs.fed.us, Resource, Mapping, Inventory and Monitoring, USDA Forest Service, GTAC