

## **Analysis Of Fiber Supply Sustainability In Different Procurement Areas In Georgia**

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We describe here a study of current and future resource supply assessment based on fusion of various remote sensing and ground inventory data and 20-year simulations of forest management and growth and yield dynamics of six major forest cover types. The main purpose of the study was to derive relative ranking among all Georgia counties with respect to the forest resource production sustainability within each county procurement area. To assess the maximum levels of resource capability the simulations were based on the assumption of the maximum sustainable removals. The considered procurement areas were defined by 25, 50, 75 and 100-mile radiuses with centers overlying the centroids of each county. The analyses revealed that the levels of sustainable resource production of individual county procurement areas were strongly dependent on the considered radiuses of each procurement area. Small procurement areas had the highest levels of resource sustainability in southeast Georgia. Large procurement areas had the highest levels of resource supply sustainability in regions around Atlanta, Columbus, and Macon. The region alongside boundaries of South Carolina and around South Augusta had very high levels of resource sustainability regardless of the considered radius.

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