ECONOMIC

Road Network: ESRl networked road shapefile was used to route the residual volumes to a facility. Unit variable cost for a 45-ft drop center trailer that hauls 15.6 BDT residuals assuming 35% moisture content, loaded and unloaded, was calculated based on assumed road speeds and operational and maintenance costs for the truck. Fixed costs were determined through personal communication with Dr. John Sessions, OSU Forestry Dept. Travel time over each road segment in the network was calculated based on assigned road speed and the length of the segment. Travel time was then multiplied by the unit variable cost for the given road segment type to give the $/BTD for the road segment.

Feedstock Data Source: FIA points represent forest landings where slash piles are stored and chipped into waiting chip vans. A 30-year average residual volume is associated with each FIA point. The volumes are determined through the NARA OSU Forest Economics team dynamic spatial-equilibrium forest products market model.

GWP = Global Warming Potential

Community Impact Analysis (CIA) spreadsheet provided by NARA CIA Team at UW and used to calculate regional economic impacts and jobs added.