

MODELING WOOD FUEL PRODUCTION

Update to the Team of Specialists on Forest Product and Wood Energy Statistics

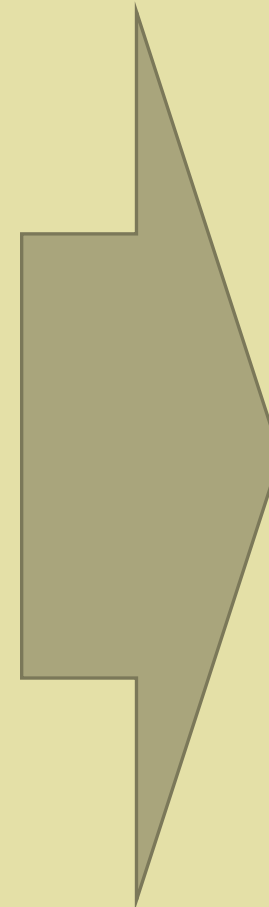
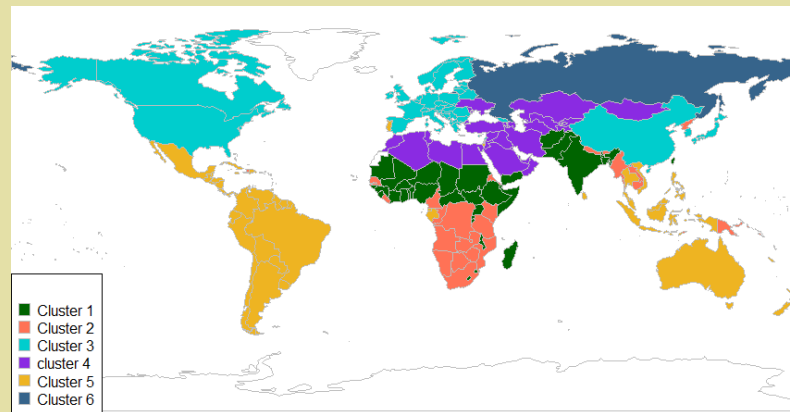
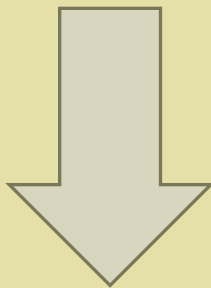
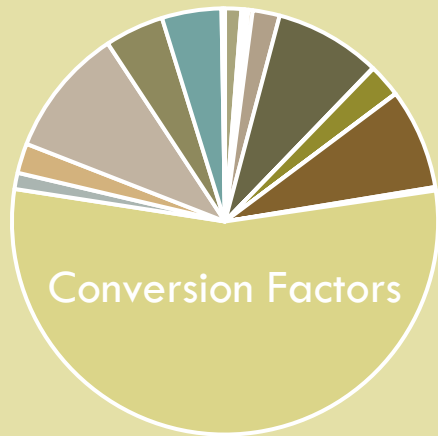
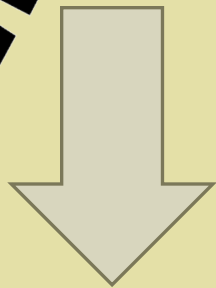
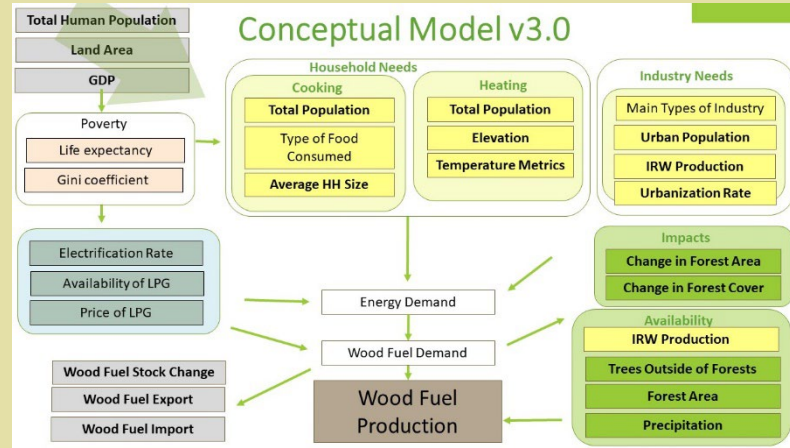
2 June 2022





- **Why FAO?** FAO is the custodian of a data series on wood fuel production that dates back to 1961. The data are reported by countries to FAO and our partners through the Joint Forest Products Questionnaire (JFSQ) and provided publicly via the FAOSTAT database.
- **What needs to be estimated?** National wood fuel production and wood charcoal production for countries (~150 countries) who do not submit data via the JFSQ.
- **Why estimate?** The data series should not have gaps for countries so that totals can be estimated, for example, global production of wood fuel.
- **When do we need an estimate?** If countries do not report data in a given year, FAO uses external information sources and/or a model to estimate wood fuel production for that year.
- **What do we do now?** The model currently in use by FAO is a collection of linear and log linear equations based on work completed from approximately 1998-2002. With new information available and new statistical tools available, we would like to update the model used by FAO.

2309 observations
+
1139 AFREC



per capita wood fuel demand
- Random forest models

fraction of demand met with wood charcoal (national)
- Binomial models

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What is likely to happen?

- Estimates will go up
- Threshold of 10m^3 pp

When?

- Estimates for review in early fall

Data series management?

- Revise backwards 5-10 years?
- Break in series?

