Model Integration Sheet

LTS Chile Multi-sectoral Model

Sector: Forestry and biodiversity

| Class | Type | Name | Units | Variation Range | Notes | Coding |
| --- | --- | --- | --- | --- | --- | --- |
|  | Policy parameters | Pyparams: forest management Area multiplier  Pyparams: Forested Area multiplier  Pyparams: preventive silviculture percentage multiplier  Pyparams: reduction of forest substitution multiplier | No unit  No unit  No unit  No unit | 0.5-1.05  0.2-1.05  0-1  0.7-1.1 | Time series  Time series  Time series  Time series | Pyparams\_interface[Medida Plan de Manejo]  Pyparams\_interface[Medida Forestacion BN]  Pyparams\_interface[Tierras convertidas a plantaciones]  Pyparams\_interface[Incendio Bosque Nativo]  Pyparams\_interface[Medida Forestacion Plantaciones]  Pyparams\_interface[Medida Sustitucion y degradacion] |
| Uncertain Parameters  Uncertain Parameters | Disturbance area by fire  Disturbance by fire area (croplands and grasslands)  National GDP  Population Levels  Native forest fire uncertainty rate  Forest plantations fire uncertainty rate  Large-Scale Forest fire uncertainty rate  Harvested Wood Products demand uncertainty rate  forest yield uncertainty rate  Native forest yield uncertainty rate  Native forest loss uncertainty rate | ha  ha  USD/year  N° of people  No unit  No unit  No unit  No unit  No unit  No unit  No unit | NA  NA  Different scenarios  (sent by Luis González)  Different scenarios  (sent by Luis González)  0.9 – 1.5  0.9 – 1.5  0-1  0.9-1.1  0.9-1.05  0.98-1.1  0.7-1.1 | Time series  Time series  Time series  Time series  Time series  Time series  Time series  Time series  Time series  Time series  Time series | P\_IncNativo  P\_IncPlant  Ha\_Incendios  Pyparams\_interface[IncertidumbrePIB]  Pyparams\_interface[IncertidumbrePoblacion]  Pyparams\_interface[Incertidubre Incendio BN]  Pyparams\_interface[Incertidubre Incendio plantaciones]  Pyparams\_interface[Incertidubre Megaincendio]  Pyparams\_interface[Incertidumbre demanda productos forestales]  Pyparams\_interface[Incertidumbre rendimiento Plantacion]  Pyparams\_interface[Incertidumbre rendimiento BN]  Pyparams\_interface[Incertidumbre perdida de bosque nativo] |
|  | Parameter | Firewood demand Variation related to 2019 | % | 0.9-1.5  After should be an output from residential model | Time series  Should be an Input from residential model | Pyparams\_interface[Var Demanda Leña 2019] |
| Output | DAMI | Emission from Forest Sector | MM t CO2e/ years | NA |  | Output Object  Emisiones\_Python |
| Tracker | CAPEX | MM USD | NA |  | Output Object  CAPEX |
| Tracker | OPEX | MM USD | NA |  | Output Object  OPEX |
| DAMI | Forest area | Ha | NA |  | Output Object  Superficie\_python |