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  Cost per hectare recovered  Pyparams: Forested Area multiplier  Pyparams: preventive silviculture percentage multiplier  Pyparams: reduction of forest substitution multiplier | No unit  USD/ha  No unit  No unit  No unit | 0.8-1.2  2000-5000  0.8-1.2  0.8-1.2  0.8-1.2 |  | Pyparams\_interface[Recuperación\_BN]  OPEX\_Unitario[BN\_recuperacion]  Pyparams\_interface[Tierras convertidas a BN]  Pyparams\_interface[Tierras convertidas a plantaciones]  Pyparams\_interface[Incendio Bosque Nativo]  Pyparams\_interface[Incendio Plantaciones Forestales]  Pyparams\_interface[Sustitución y degradación] |
| 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 | ha  ha  USD/year  N° of people  No unit  No unit | NA  NA  Different scenarios  (sent by Luis González)  Different scenarios  (sent by Luis González)  0.287 – 2.055  0.075 – 4.309 | 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] |
|  | Parameter | Firewood demand Variation related to 2019 | % | Output from residential model | Input residential model | Pyparams\_interface[Var Demanda Leña 2019] |
| Output | DAMI | Emission from Forest Sector | MM t CO2e/ years | NA |  | Output Object  Emisiones\_Python |
| DAMI | Total OPEX | MM USD | NA |  | Output Object  OPEX\_Total\_Escenario |
| DAMI | Forest area | Ha | NA |  | Output Object  Superficie\_python |