Model Integration Sheet

LTS Chile Multi-sectoral Model

Sector: Agriculture and Livestock

| Class | Type | Name | Units | Variation Range | Notes | Coding |
| --- | --- | --- | --- | --- | --- | --- |
| Input | Uncertain Parameters | Prices of agricultural products  Milk Price  Maize Price  Pork Price  Cattle Price  Poultry Price | USD/ton \* year (per product) | (not applied yet) | Time series | pyparams\_interface[Incertidumbre\_PrecioLeche]  pyparams\_interface Incertidumbre\_PrecioMaiz]  pyparams\_interface[Incertidumbre\_PrecioCerdo]  pyparams\_interface[Incertidumbre\_PrecioBovino]  pyparams\_interface[Incertidumbre\_PrecioPollo] |
| National GDP | USD/year | Different scenarios (sent by Luis Gonzalez) | Time series | pyparams\_interface |
| % of adoption measured (of a total of Dairy Cattle) | N/A | 1%-100% | Time series | pyparams\_interface[Incertidumbre\_PIB] |
| Population Levels | N° of people | Different scenarios (sent by Luis Gonzalez) | Time series | pyparams\_interface[Incertidumbre\_Poblacion] |
| Policy Parameters | Change in Bovine Diet | No Unit | 0.8-1.2 | NA | pyparams\_interface[Medida\_CambioDietaBovina] |
| C capture from soils | No Unit | 0.8-1.2 | NA | pyparams\_interface[Medida\_CapturaCsuelos] |
| Efficient use of fertilizer | No Unit | 0.8-1.2 | NA | pyparams\_interface[Medida\_Usoeficientefertilizante] |
| Biodigester | No Unit | 0.8-1.2 | NA | pyparams\_interface[Medida\_Biodigestores] |
| Output | DAMI | Emissions from Agriculture Sector | MM tCO2eq/year | N/A | Time series | Emisiones\_Python |