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  Soy Price | USD/ton \* year (per product)  CLP/TON  CLP/TON  CLP/TON  CLP/TON  CLP/TON  CLP/TON | [0.65-1.35]  [0.55-1.45]  [0.65-1.35]  [0.65-1.35]  [0.75-1.25]  [0.75-1.25] | Time series | pyparams\_interface[precio\_leche]  pyparams\_interface [precio\_maiz]  pyparams\_interface[precio\_cerdo]  pyparams\_interface[precio\_bovino]  pyparams\_interface[precio\_pollo]  pyparams\_interface[precio\_soya] |
| GDP | MMUSD/year | Different scenarios (sent by Luis Gonzalez) | Time series | pyparams\_interface[pib] |
| Population Levels | N° of people | Different scenarios (sent by Luis Gonzalez) | Time series | pyparams\_interface[población] |
| Policy Parameters | Change in Bovine Diet | No Unit | [0.5-1.36] | NA | pyparams\_interface[medida\_cambio\_dieta\_bovina] |
| C capture from soils | No Unit | [0.8-1.2] | NA | pyparams\_interface[medida\_captura\_c\_suelos] |
| Efficient use of fertilizer | No Unit | [0.3-1] | NA | pyparams\_interface[medida\_uso\_eficiente\_fertilizante] |
| Biodigester | No Unit | [0.71-1.36] | NA | pyparams\_interface[medida\_biodigestores] |
| Output | DAMI | Emissions from Agriculture Sector | MM MMCO2eq/year | N/A | Time series | Emisiones\_Python |
| Output | OPEX | OPEX Agricultura | MMUSD/year | N/A | Time series | OPEX\_Agricultura |
| Output | CAPEX | OPEX Agricultura | MMUSD/year | N/A | Time series | CAPEX\_Agricultura |