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 | USD/ton \* year (per product) | [0.9-1.1]  (not applied yet) | Time series | Precios\_Productos\_Pr  pyparams\_interface1 |
| National GDP | USD/year | Different scenarios (sent by Luis Gonzalez) | Time series | Proyeccion\_PIB  pyparams\_interface1 |
| % of adoption measured (of a total of Dairy Cattle) | N/A | 1%-100% | Time series | Proyeccion\_PIB  pyparams\_interface1 |
| Population Levels | N° of people | Different scenarios (sent by Luis Gonzalez) | Time series | pyparams\_interface1 |
| Output | DAMI | Emissions from Nitrogen Application | MM tCO2eq/year  (from N2O) | N/A | Time series | E\_MMtCO2eq\_SA |
| DAMI | Emissions from Cattle  (CH4 in MMCO2eq/year, from enteric fermentation,  CH4 in MMCO2eq/year, from manure,  N20 in MMCO2eq/year, from enteric fermentation) | MM tCO2eq/year  (from CH4)  MM tCO2eq/year  (from CH4)  MM tCO2eq/year  (from N2O) | N/A | Time series | E\_MMtCO2eq\_CH4FE  E\_MMtCO2eq\_Ganado\_E  E\_MMtCO2eq\_N2O\_Est |
| DAMI | Emissions from Urea Application | MM tCO2eq/year | N/A | Time series | E\_MMtCO2eq\_Urea |
| DAMI | Emissions from Agriculture Sector (different scenarios totals) | MM tCO2eq/year | N/A | Time series | E\_Sector\_Agricultura |
| DAMI | OPEX measures | MMUSD/year | N/A | Time series | OPEX\_Total\_Escenario |