**Glossary of Terms (GT), encompassing the key classes and properties extracted from the exploration and analysis of existing ontologies in the agriculture domain for reuse in our ontology.**

|  |  |
| --- | --- |
| **Plant Protection Ontology (PPOntology)** | |
| Class | Property |
| * Organism   + Microorganism   + Pest     - Pest\_Insect     - Pest\_Mite * Environmental\_Condition   + Soil\_Property     - Soil\_Type     - Soil\_pH   + Meteorological\_Condition     - Humidity     - Rainfall     - Soil\_Temperature     - Soil\_Water\_Content     - Temperature     - Winds * Cultural\_Practice   + Cropping   + Drainage   + Fertalization   + Harvest\_Time   + Irrigation   + Planting\_Depth   + Planting\_Time   + Tillage * Air\_Pollutant * Plant\_Parts * Pest\_Damage   + Insect\_Damage   + Mite\_Damage | has\_cultural\_practice  scientific\_name  similar\_abnormality |
| **Crop PestO** | |
| Class | Property |
| * Pests   + Bacteria   + Fungus   + Nematodes   + Viroid   + Parasitic Plant * Control Methods   + Chemical control   + Mechanical control   + Cultural practices   + Biological control * Symptoms | isInfluencedBy  influences  isControlledBy |
| **Plant Disease Ontology (PDO)** | |
| Class | Property |
| * Causal Agent   + Abiotic causal agent   + Biotic causal agent     - Bacterial biotic causal agent     - Fungal biotic causal agent     - Viral biotic causal agent * Host plant * Plant disease   + Plant bacterial disease   + Plant fungal disease   + Plant viral disease | has causal agent  part of |
| **The Crop-Pest Ontology** | |
| Class | Property |
| * Phathological\_Process   + Damage     - Boring     - Feeding\_damage     - Puncture     - Rot | appears\_On  is\_Pest\_Of  is\_Host\_Of |
| **RiceDO** | |
| Class | Property |
| * Pest   + Insect * Pest damage   + Insect Damage * Symptom Characteristic | has Symptom  has Damage |
| **TreatO** | |
| Class | Property |
| * Biological Control Agent   + Bacterial Biological Control Agent   + Fungal Biological Control Agent   + Viral Biological Control Agent * Chemical Control Agent   + Bactericide Chemical Control Agent   + Fungicide Chemical Control Agent   Insecticide Chemical Control Agent | * is Biological Control Agent Of   + is Bacterial Biological Control Agent Of   + is Fungal Biological Control Agent Of   + is Viral Biological Control Agent Of * is Chemical Control Agent Of   + is Bactericide Chemical Control Agent Of   + is Fungicide Chemical Control Agent Of   is Insecticide Chemical Control Agent Of |
| **Plant-Pathogen Interactions Ontology (PPIO)** | |
| Class | Property |
| * Soil\_type * Blight * Canker * Necrotic\_lesion * Rotting * Wilting * Plant\_Pathogen * Host\_Plant | pathogen\_Of  susceptible\_To  caused\_By  causes |