

```

{
  "mapping_info": {
    "mapping_author": "cvillalobos@u",
    "source_url": "https://data.cimmyt.org/api/access/datafile/6138?gbrecs=true"
  },
  "dataset_metadata": {},
  "ontology_mappings": [
    {
      "file": {
        "file_metadata": {
          "file_name": "TAMASA_ET_VT_2016F.xlsx",
          "content-type": "application/vnd.openxmlformats-officedocument.spreadsheetml.sheet",
          "file_url": "https://data.cimmyt.org/api/access/datafile/6138?gbrecs=true"
        },
        "sheets": [
          {
            "sheet_name": "Corrected Data",
            "data_start_row": 2,
            "mappings": [
              {
                "column_index": 1,
                "terms": [
                  {
                    "term_url": "http://purl.obolibrary.org/obo/OBI_0001620"
                  }
                ],
                "unit_url": "http://purl.obolibrary.org/obo/UO_0000283"
              },
              {
                "column_index": 4,
                "terms": [
                  {
                    "term_url": "http://purl.obolibrary.org/obo/OBI_0001620"
                  }
                ],
                "unit_url": "http://purl.obolibrary.org/obo/UO_0000283"
              }
            ]
          },
          ... (break in data)
          {
            "column_index": 22,
            "terms": [
              {
                "term_url": "http://purl.obolibrary.org/obo/TO_0000396"
              }
            ],
            "unit_url": "http://purl.obolibrary.org/obo/UO_0000283"
          },
          {
            "column_index": 24,
            "terms": [
              {
                "term_url": "http://purl.obolibrary.org/obo/TO_0000895"
              }
            ],
            "unit_url": "http://purl.obolibrary.org/obo/UO_0000187"
          }
        ]
      }
    }
  ],
  "xrefs": [
    {
      "xref_provider": "gardian",
      "xref_url": "https://gardian.bigdata.cgiar.org/dataset.php?id=5cd88b72317da7f1ae0cf390#!/"
    }
  ]
}

```

The "mapping\_info" block contains information regarding the source location of the data and who was responsible for the translation map.

/11011"

The "dataset\_metadata" block will contain platform-specific metadata and (for GARDIAN metadata) can be populated by the COPO tool.

The "ontology\_mappings" block contains information regarding

- the data filename(s),
- format(s) of the file,
- specific sheets where data are located,
- specific variables contained in the dataset including location within the dataset and the urls for the ontological terms and corresponding units.

As an example of the ontology mappings, column 22 (or column "V") in the dataset refers to grain yield in kg/ha. This corresponds to a trait ontology term TO\_0000396 and units ontology term UO\_0000283.

The "xrefs" block contain cross reference information, in this case, the reference location of the dataset in GARDIAN.