BIEN

Legend

location	event	plant
occurrence	specimen	
analytical	determination	
misc	party	method
reference	community	

^ Core
v Other

The image is an Entity-Relationship Diagram (ERD) for the VegBIEN database schema, showing the following tables and their fields:

coordinates: coordinates_id, source_id, latitude_deg, longitude_deg, verbatimlatitude, verbatimlongitude, verbatimcoordinates, footprintgeometry_dwc, coordsaccuracy_m

place: place_id, source_id, canon_place_id, matched_place_id, coordinates_id, placename_id, continent, country, stateprovince, county, description, geovalid, distance_to_country_m, distance_to_state_m, distance_to_county_m

placename: placename_id, parent_id, rank, placename

location: location_id, source_id, sourceaccessioncode, parent_id, authorlocationcode, accesslevel, accessconditions, sublocationxposition_m, sublocationyposition_m, iscultivated, authorzone, authordatum, authorlocation, locationnarrative, azimuth, shape, area_m2, standsize, placementmethod, permanence, layoutnarrative, elevation_m, elevationaccuracy_m, elevationrange_m, verbatimelevation, slopeaspect_deg, 18 more...

locationplace: locationplace_id, location_id, place_id, identifier_id

userdefined: userdefined_id, userdefinedname, userdefinedmetadata, userdefinedcategory, userdefinedtype, tablename, accessioncode

definedvalue: definedvalue_id, userdefined_id, tablerecord_id, definedvalue

project: project_id, source_id, sourceaccessioncode, projectname, projectdescription, startdate, stopdate, accessioncode

locationevent: locationevent_id, source_id, sourceaccessioncode, accesslevel, parent_id, location_id, project_id, authoreventcode, previous_id, obsstartdate, obsenddate, dateaccuracy, method_id, temperature_c, precipitation_m, 62 more...

soilsample: soilsample_id, locationevent_id, horizon, description, depthtop_m, depthbottom_m, color, texture, organic_fraction, sand_fraction, silt_fraction, clay_fraction, coarse_fraction, ph, acidity_fraction, basesaturation_fraction, cationexchangecapacity_cmol_kg, conductivity, 7 more...

stratum: stratum_id, locationevent_id, stratumheight, stratumbase, stratumcover, 2 more...

taxonoccurrence: taxonoccurrence_id, source_id, sourceaccessioncode, locationevent_id, authortaxoncode, collector_id, growthform, iscultivated, cultivatedbasis, isnative, accessioncode

aggregateoccurrence: aggregateoccurrence_id, source_id, sourceaccessioncode, taxonoccurrence_id, collectiondate, cover_fraction, linecover_m, basalarea_m2, biomass_kg_m2, inferencearea_m2, count, stratum_id, coverindex_id, occurrencestatus_dwc, method_id, notes, accessioncode

plant: plant_id

plantobservation: plantobservation_id, source_id, sourceaccessioncode, aggregateoccurrence_id, overallheight_m, overallheightaccuracy_m, collectionnumber, stemcount, plant_id, accessioncode

stemobservation: stemobservation_id, source_id, sourceaccessioncode, plantobservation_id, authorstemcode, tag, tags, xposition_m, yposition_m, diameterbreastheight_m, basaldiameter_m, diameteraccuracy_m, height_m, heightfirstbranch_m, heightaccuracy_m, health, age, accessioncode

specimenreplicate: specimenreplicate_id, source_id, sourceaccessioncode, plantobservation_id, institution_id, collectioncode_dwc, catalognumber_dwc, description, specimen_id, accessioncode

specimen: specimen_id

voucher: voucher_id, taxonoccurrence_id, specimenreplicate_id

taxondetermination: taxondetermination_id, taxonoccurrence_id, taxonverbatim_id, party_id, role, determinationtype, source_id, isoriginal, iscurrent, taxonfit, taxonconfidence, grouptype, notes, notespublic, notesmgt, revisions, determinationdate, accessioncode

taxonverbatim: taxonverbatim_id, taxonlabel_id, verbatimrank, taxonomicname, taxonname, author, family, genus, specific_epithet, morphospecies, growthform, description

taxonconcept: taxonlabel_id, concept_reference_id

taxonlabel_relationship: descendant_id, ancestor_id, relationship

taxonlabel: taxonlabel_id, source_id, sourceaccessioncode, creationdate, taxonstatus, canon_label_id, matched_label_id, matched_label_fit_fraction, parent_id, taxonepithet, rank, taxonomicname, accessioncode

methodtaxonclass: methodtaxonclass_id, method_id, taxonlabel_id, included, submethod_id, taxonclass

method: method_id, source_id, name, description, diameterheight_m, mindiameter_m, maxdiameter_m, minheight_m, maxheight_m, observationtype, observationmeasure, covermethod_id, samplingfactor, coverbasis, stemsamplemethod, shape, length_m, width_m, radius_m, area_m2, samplearea_m2, subplotspacing_m, subplotmethod_id, pointsperline, accessioncode

covermethod: covermethod_id, source_id, covertype, coverestimationmethod, accessioncode

coverindex: coverindex_id, covermethod_id, covercode, upperlimit, lowerlimit, coverpercent, indexdescription

taxonstatus: taxonstatus_id, taxonlabel_id, party_id, taxonlabelstatus, source_id, plantpartycomments, startdate, stopdate, accessioncode

taxoncorrelation: taxoncorrelation_id, taxonstatus_id, taxonlabel_id, plantconvergence, correlationstart, correlationstop

taxonlineage: taxonlineage_id, childtaxonstatus_id, parenttaxonstatus_id

analytical_stem: datasource, institutionCode, collectionCode, catalogNumber, occurrenceID, country, stateProvince, county, decimalLatitude, decimalLongitude, coordinateUncertaintyInMeters, geovalid, isNewWorld, projectID, locationName, elevationInMeters, plotArea_ha, samplingProtocol, dateCollected, higherPlantGroup, family, genus, speciesBinomial, scientificName, scientificNameAuthorship, speciesBinomialWithMorphospe..., scientificNameWithMorphospecies, threatened, identifiedBy, growthForm, cultivated, cultivatedBasis, recordedBy, recordNumber, coverPercent, diameterBreastHeight_cm, height_m, tag, organismX_m, organismY_m, taxonOccurrenceID, authorTaxonCode, individualID, authorStemCode

analytical_aggregate: datasource, country, stateProvince, county, decimalLatitude, decimalLongitude, coordinateUncertaintyInMeters, geovalid, isNewWorld, locationName, elevationInMeters, plotArea_ha, samplingProtocol, dateCollected, higherPlantGroup, family, genus, speciesBinomial, scientificName, scientificNameAuthorship, scientificNameWithMorphospecies, threatened, identifiedBy, growthForm, cultivated, cultivatedBasis, coverPercent, individualCount, individualCount_1cm_or_more, individualCount_2_5cm_or_more, individualCount_10cm_or_more

family_higher_plant_group: family, higher_plant_group

address: address_id, party_id, organization_id, orgposition, email, street, street2, city, stateprovince, postalcode, country, currentflag, addressstartdate

party: party_id, source_id, sourceaccessioncode, fullname, salutation, givenname, middlename, surname, suffix, department, organizationname, currentname_id, contactinstructions, email, partytype, partypublic, accessioncode

partymember: partymember_id, parentparty_id, childparty_id, role, memberstart, memberstop

telephone: telephone_id, party_id, phonenumber, phonetype

locationeventcontributor: locationeventcontributor_id, locationevent_id, party_id, role, contributiondate

projectcontributor: projectcontributor_id, project_id, party_id, role

threatened_taxonlabel: taxonlabel_id

provider_count: provider, count

owner_count: owner, count

note: note_id, notelink_id, party_id, role, notetype, notetext, notedate, accessioncode

notelink: notelink_id, tablename, attributename, tablerecord

sourcelist: sourcelist_id, source_id, name

sourcename: sourcelist_id, name, matched_source_id

source: source_id, matched_source_id, parent_id, shortname, citation, sourcetype, accesslevel, accessconditions, observationtype, title, titlesuperior, volume, issue, pagerange, totalpages, publisher, publicationplace, isbn, edition, numberofvolumes, chapternumber, reportnumber, communicationtype, degree, url, doi, additionalinfo, pubdate, accessdate, conferencedate, accessioncode

sourcecontributor: sourcecontributor_id, source_id, sourceparty_id, role, order

taxoncorrelation (see above)

commclass: commclass_id, locationevent_id, inspection, tableanalysis, multivariateanalysis, classpublication_id, 9 more...

commdetermination: commdetermination_id, commclass_id, commconcept_id, commcode, commname, classfit, classconfidence, commauthority_id, notes, type, nomenclaturetype

commconcept: commconcept_id, commname_id, source_id, commdescription, commname, accessioncode

commname: commname_id, commname, source_id, dateentered

commusage: commusage_id, commname_id, commname, commconcept_id, commnamestatus, classsystem, party_id, commstatus_id, usagestart, usagestop

commstatus: commstatus_id, commconcept_id, source_id, commconceptstatus, commparent_id, commlevel, commpartycomments, party_id, startdate, stopdate, accessioncode

commcorrelation: commcorrelation_id, commstatus_id, commconcept_id, commconvergence, correlationstart, correlationstop

commlineage: commlineage_id, parentcommstatus_id, childcommstatus_id

cultivated_family_locations: family, country

revision: revision_id, tablename, tableattribute, tablerecord, previousvaluetext, previousvaluetype, previousrevision_id, revisiondate