



https://projects.nceas.ucsb.edu/nceas/projects/bien/wiki/VegBIEN\_schema

**Legend**

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

**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
- verbatimerelevation
- slopeaspect\_deg
- minslopeaspect\_deg
- maxslopeaspect\_deg
- slopegradient\_fraction
- minslopegradient\_fra...
- maxslopegradient\_fra...
- toposition
- landform

**locationplace**

- locationplace\_id
- location\_id
- place\_id
- identifier\_id

**projectcontributor**

- projectcontributor\_id
- project\_id
- party\_id
- role

**project**

- project\_id
- source\_id
- sourceaccessioncode
- projectname
- projectdescription
- startdate
- stopdate

**locationevent**

- locationevent\_id
- source\_id
- sourceaccessioncode
- accesslevel
- parent\_id
- location\_id
- project\_id
- stratum\_id
- authoreventcode
- previous\_id
- obsstartdate
- obsenddate
- dateaccuracy
- method\_id
- temperature\_c
- precipitation\_m
- autotaxoncover

**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\_cm...
- conductivity

**stratum**

- stratum\_id
- source\_id
- stratumname
- stratumheight
- stratumbase
- stratumcover
- area
- method\_id

**taxonoccurrence**

- taxonoccurrence\_id
- source\_id
- sourceaccessioncode
- parent\_id
- locationevent\_id
- authortaxoncode
- collector\_id
- growthform
- iscultivated
- cultivatedbasis
- isnative

**trait**

- trait\_id
- taxonoccurrence\_id
- name
- value
- units

**taxondetermination**

- taxondetermination\_id
- taxonoccurrence\_id
- source\_id
- taxonverbatim\_id
- party\_id
- role
- determinationtype
- reference\_id
- isoriginal
- iscurrent\_verbatim
- iscurrent
- taxonfit
- taxonconfidence
- groupype
- notes
- revisions
- determinationdate

**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

**voucher**

- voucher\_id
- taxonoccurrence\_id
- specimenreplicate\_id

**taxonverbatim**

- taxonverbatim\_id
- source\_id
- taxonlabel\_id
- verbatimrank
- taxonomicname
- taxonname
- author
- family
- genus
- specific\_epithet
- party\_id
- morphospecies
- morphoname
- growthform
- description

**taxonconcept**

- taxonlabel\_id
- taxonlabel\_id
- concept\_reference\_id

**taxonlabel\_relationship**

- descendant\_id
- ancestor\_id
- relationship

**plant**

- plant\_id

**plantobservation**

- plantobservation\_id
- source\_id
- sourceaccessioncode
- aggregateoccurrence\_id
- overallheight\_m
- overallheightaccuracy\_m
- authorplantcode
- stemcount
- reproductivecondition
- plant\_id

**specimenreplicate**

- specimenreplicate\_id
- source\_id
- sourceaccessioncode
- plantobservation\_id
- institution\_id
- collectioncode\_dwc
- catalognumber\_dwc
- collectionnumber
- description
- specimen\_id

**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

**specimen**

- specimen\_id

**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
- pointspersline

^ Core

v Other

analytical_stem
datasource
country
stateProvince
county
locality
decimalLatitude
decimalLongitude
coordinateUncertaintyInMeters
coordinateSource_bien
georeferenceProtocol_bien
geovalid_bien
isNewWorld_bien
projectID
locationID
locationName
subplot
location_cultivated_bien
locationevent__pkey
eventDate
elevationInMeters
slopeAspect
slopeGradient
plotArea_ha
samplingProtocol
temperature_C
precipitation_m
stratum__name
communities
plot_collectors
specimenHolderInstitutions
collection
accessionNumber
occurrenceID
recordedBy
recordNumber
dateCollected
family_verbatim
scientificName_verbatim
identifiedBy
dateIdentified
identificationRemarks
family_matched
taxonName_matched
scientificNameAuthorship_matched
higherPlantGroup_bien
taxonomic_status
scrubbed_family
scrubbed_genus
scrubbed_morphospecies_binomial
scrubbed_taxon_name_no_author

taxon_trait
scientificName
measurementType
measurementValue
measurementUnit

provider_count
dataprotector
dataset
records
sourcetype
observationtype

threatened_taxonlabel
taxonlabel_id

family_higher_plant_group
family
higher_plant_group

cultivated_family_locations
family
country

telephone
telephone_id
party_id
phonenumber
phonetype

address
address_id
party_id
organization_id
orgposition
email
street
street2
city
stateprovince
postalcode
country
currentflag
addressesstartdate

party
party_id
source_id
sourceaccessioncode
fullname
salutation
givenname
middleinitial
suffix
department
organizationname
currentname_id
contactinstructions
email
partytype
partypublic

sourcecontributor
sourcecontributor_id
source_id
sourceparty_id
role
order

partymember
partymember_id
parentparty_id
childparty_id
role
memberstart
memberstop

locationeventcontributor
locationeventcontributor_id
locationevent_id
party_id
role
contributiondate

userdefined
userdefined_id
userdefinedname
userdefinedmetadata
userdefinedcategory
userdefinedtype
tablename

definedvalue
definedvalue_id
userdefined_id
tablerecord_id
definedvalue

sourcelist
sourcelist_id
source_id
name

sourcename
sourcelist_id
name
matched_source_id

note
note_id
notelink_id
party_id
role
notetype
notetext
notedate

notelink
notelink_id
tablename
attributename
tablerecord

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

taxoncorrelation
taxoncorrelation_id
taxonstatus_id
taxonlabel_id
plantconvergence
correlationstart
correlationstop

commclass
commclass_id
locationevent_id
inspection
tableanalysis
multivariateanalysis
classpublication_id
classnotes

commdetermination
commdetermination_id
commclass_id
commconcept_id
commcode
commname
classfit
classconfidence
commauthority_id
notes
type
nomenclaturatype

commcorrelation
commcorrelation_id
commstatus_id
commconcept_id
commconvergence
correlationstart
correlationstop

taxonstatus
taxonstatus_id
taxonlabel_id
party_id
taxonlabelstatus
source_id
plantpartycomments
startdate
stopdate

taxonlineage
taxonlineage_id
childtaxonstatus_id
parenttaxonstatus_id

commconcept
commconcept_id
commname_id
reference_id
commdescription
commname

commname
commname_id
commname
source_id
dateentered

commstatus
commstatus_id
commconcept_id
source_id
commconceptstatus
commparent_id
commlevel
commpartycomments
party_id
startdate
stopdate

commusage
commusage_id
commname_id
commname
commconcept_id
commnamestatus
classsystem
party_id
commstatus_id
usagestart
usagestop

revision
revision_id
tablename
tableattribute
tablerecord
previousvaluetext
previousvaluetype
previousrevision_id
revisiondate

covermethod
covermethod_id
source_id
covertype
coverestimationmethod

coverindex
coverindex_id
covermethod_id
covercode
upperlimit
lowerlimit
coverpercent
indexdescription

