VegBank Database System
Entity Relationship Diagram (ERD)
version 1.0.2   updated:18-Feb-2004 (Lee)   created in VegBranch

observation
PK! observation_ID
FK previousobs_ID
FK! plot_ID
FK! project_ID
authorObsCode
obsStartDate
obsEndDate
dateAccuracy
dateEntered
covermethod_ID
coverDispersion
autoTaxonCover
FK stratummethod_ID
methodNarrative
taxonObservationArea
stemSizeLimit
stemObservationArea
stemSampleMethod
originalData
effortLevel
plotValidationLevel
floristicQuality
bryophyteQuality
lichenQuality
observationNarrative
landscapeNarrative
homogeneity
phenologicalAspect
representativeness
standMaturity
successionalStatus
basalArea
hydrologicRegime
soilMoistureRegime
soilDrainage
waterSalinity
waterDepth
shoreDistance
soilDepth
organicDepth
FK soiltaxon_ID
soilTaxonSrc
percentBedRock
percentRockGravel
percentWood
percentLitter
percentBareSoil
percentWater
percentOther
nameOther
treeHt
shrubHt
fieldHt
nonvascularHt
submergedHt
treeCover
shrubCover
fieldCover
nonvascularCover
floatingCover
submergedCover
dominantStratum
growthform1Type
growthform2Type
growthform3Type
growthform1Cover
growthform2Cover
growthform3Cover
totalCover
accessionCode
notesPublic
notesMgt
revisions

graphic
PK! graphic_ID
FK observation_ID
graphicName
graphicLocation
graphicDescription
graphicType
graphicDate
graphicData

soilTaxon
PK! soiltaxon_ID
soilCode
soilName
! soilLevel
FK soilparent_ID
soilFramework
accessionCode

stemCount
PK! stemcount_ID
FK! taxonimportance_ID
stemDiameter
stemDiameterAccuracy
stemHeight
stemHeightAccuracy
stemCount
stemTaxonArea

stemLocation
PK! stemlocation_ID
FK! stemcount_ID
stemCode
stemXPosition
stemYPosition
O stemHealth

plantLineage
PK! plantlineage_ID
FK! childPlantStatus_ID
FK! parentPlantStatus_ID

taxonObservation
PK! taxonobservation_ID
FK! observation_ID
authorPlantName
FK reference_ID
taxonInferenceArea
accessionCode

taxonImportance
PK! taxonImportance_ID
FK! taxonObservation_ID
FK stratum_ID
cover
basalArea
biomass
inferenceArea

taxonAlt
PK! taxonAlt_ID
FK! taxonInterpretation_ID
FK! plantConcept_ID
X taxonAltFit
X taxonAltConfidence
taxonAltNotes

taxonInterpretation
PK! taxoninterpretation_ID
FK! taxonobservation_ID
FK stemLocation_ID
FK plantconcept_ID
! interpretationDate
FK plantname_ID
FK party_ID
FK role_ID
X interpretationType
! reference_ID
! originalInterpretation
! currentInterpretation
taxonFit
taxonConfidence
FK collector_ID
collectionNumber
collectionDate
museum_ID
museumAccessionNumbe
groupType
notes
notesPublic
notesMgt
revisions

plantCorrelation
PK! plantcorrelation_ID
FK! plantstatus_ID
FK! plantconcept_ID
X! plantConvergence
correlationStart
correlationStop

plantStatus
PK! plantstatus_ID
FK! plantconcept_ID
reference_ID
X! plantConceptStatus
startDate
stopDate
plantPartyComments
FK plantParent_ID
plantLevel
FK party_ID

plantConcept
PK! plantconcept_ID
FK! plantname_ID
reference_ID
plantDescription
accessionCode

plantUsage
PK! plantusage_ID
FK! plantname_ID
FK! plantconcept_ID
usageStart
usageStop
X! plantNameStatus
O classSystem
FK party_ID

plantName
PK! plantname_ID
plantName
FK reference_ID
dateEntered

stratum
PK! stratum_ID
FK! observation_ID
FK! stratumtype_ID
stratumHeight
stratumBase
stratumCover

stratumType
PK! stratumtype_ID
FK! stratummethod_ID
stratumIndex
stratumName
stratumDescription

stratumMethod
PK! stratummethod_ID
FK reference_ID
! stratumMethodName
stratumMethodDescription
stratumAssignment
accessionCode

disturbanceObs
PK! disturbanceObs_ID
FK! observation_ID
X! disturbanceType
X disturbanceIntensity
disturbanceAge
disturbanceExtent
disturbanceComment

project
PK! project_ID
! projectName
projectDescription
startDate
stopDate
accessionCode

soilObs
PK! soilobs_ID
FK! observation_ID
soilHorizon
soilDepthTop
soilDepthBottom
soilColor
soilOrganic
X soilTexture
soilSand
soilSilt
soilClay
soilCoarse
soilPH
exchangeCapacity
baseSaturation
soilDescription

coverMethod
PK! covermethod_ID
FK reference_ID
! coverType
coverEstimationMethod
accessionCode

coverIndex
PK! coverindex_ID
FK! covermethod_ID
coverCode
upperLimit
lowerLimit
coverPercent
indexDescription

embargo
PK! embargo_ID
FK! plot_ID
X! embargoReason
embargoStart
embargoStop
X defaultStatus

plot
PK! plot_ID
! authorPlotCode
! reference_ID
FK parent_ID
! realLatitude
! realLongitude
! locationAccuracy
X! confidentialityStatus
confidentialityReason
! latitude
! longitude
authorE
authorN
authorZone
authorDatum
authorLocation
locationNarrative
azimuth
dsgpoly
O shape
area
X standSize
X placementMethod
permanence
layoutNarrative
elevation
elevationAccuracy
elevationRange
slopeAspect
minSlopeAspect
maxSlopeAspect
slopeGradient
minSlopeGradient
maxSlopeGradient
X topoPosition
O landform
X surficialDeposits
X rockType
accessionCode
notesPublic
notesMgt
revisions

place
PK! plotplace_ID
FK! plot_ID
calculated
FK! namedplace_ID

namedPlace
PK! namedplace_ID
X placeSystem
! placeName
placeDescription
placeCode
owner
FK reference_ID
accessionCode

commClass
PK! commclass_ID
FK! observation_ID
classStartDate
classStopDate
inspection
tableAnalysis
multivariateAnalysis
expertSystem
FK classPublication_ID
classNotes
accessionCode

commInterpretation
PK! comminterpretation_ID
FK! commclass_ID
FK! commconcept_ID
X classFit
X classConfidence
FK commAuthority_ID
notes
type
nomenclaturalType

classContributor
PK! classcontributor_ID
FK! commclass_ID
FK! party_ID
FK role_ID

userDefined
PK! userdefined_ID
O userDefinedName
userDefinedMetadata
X userDefinedCategory
userDefinedType
tableName
accessionCode

definedValue
PK! definedvalue_ID
FK! userdefined_ID
! tableRecord_ID
definedValue

revision
PK! revision_ID
! tableName
! tableAttribute
! tableRecord
revisionDate
previousValueText
previousValueType
FK previousRevision_ID

aux_Role
PK! role_ID
! roleCode
roleDescription
accessionCode
roleProject
roleObservation
roleTaxonInt
roleClassInt

projectContributor
PK! projectcontributor_ID
FK! project_ID
FK! party_ID
FK! role_ID

observationSynonym
PK! observationsynonym_ID
FK! synonymObservation_ID
FK! primaryObservation_ID
FK! party_ID
FK! role_ID
! classStartDate
classStopDate
synonymComment

commName
PK! commname_ID
! commName
FK reference_ID
dateEntered

commConcept
PK! commconcept_ID
FK! commname_ID
FK! reference_ID
commDescription
accessionCode

commCorrelation
PK! commcorrelation_ID
FK! commstatus_ID
FK! commconcept_ID
X! commConvergence
correlationStart
correlationStop

note
PK! note_ID
FK! notelink_ID
FK! party_ID
FK! role_ID
noteDate
X! noteType
! noteText

partyMember
PK! partyMember_ID
FK! parentParty_ID
FK! childParty_ID
FK role_ID
! memberStart
memberStop

party
PK! party_ID
salutation
givenName
middleName
surName
organizationName
FK currentName_ID
contactInstructions
accessionCode
X partyType

observationContributor
PK! observationcontributor_ID
FK! observation_ID
FK! party_ID
FK! role_ID
contributionDate

reference
PK! reference_ID
shortName
fullText
X referenceType
title
titleSuperior
pubDate
accessDate
conferenceDate
FK referenceJournal_ID
volume
issue
pageRange
totalPages
publisher
publicationPlace
isbn
edition
numberOfVolumes
chapterNumber
reportNumber
communicationType
degree
url
doi
additionalInfo
accessionCode

commUsage
PK! commusage_ID
FK! commname_ID
FK! commconcept_ID
! usageStart
usageStop
X! commNameStatus
O classSystem
FK party_ID

commName (magenta)

noteLink
PK! notelink_ID
! tableName
attributeName
tableRecord

address
PK! address_ID
FK! party_ID
FK organization_ID
orgPosition
email
deliveryPoint
city
administrativeArea
postalCode
country
currentFlag
addressStartDate

telephone
PK! telephone_ID
FK! party_ID
phoneNumber
X! phoneType

referenceParty
PK! referenceParty_ID
type
positionName
salutation
givenName
surname
suffix
organizationName
FK currentParty_ID
accessionCode

referenceJournal
PK! referenceJournal_ID
journal
issn
abbreviation
accessionCode

referenceContributor
PK! referencecontributor_ID
FK! reference_ID
FK! referenceParty_ID
roleType
position

referenceAltIdent
PK! referenceAltIdent_ID
FK! reference_ID
system
identifier

commStatus
PK! commstatus_ID
FK! commconcept_ID
reference_ID
X! commConceptStatus
FK commParent_ID
commLevel
startDate
stopDate
commPartyComments
FK party_ID

commLineage
PK! commlineage_ID
FK! parentCommStatus_ID
FK! childCommStatus_ID

ERD KEY

Field Details:
PK = Primary Key
FK = Foreign Key
O = Open List
X = Closed List
! = Required Field

Table Colors:
Party
Plant Taxonomy
Observation
Plot
Taxon Observation
Community Taxonomy
Observation Interpretation
Supplemental
Reference
Method

Relationship Lines:
required FK (solid)
non-required FK (dashes)
FK to reference (red)
FK to party (pink)