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Accession Area -- Tables Owned by PROD

Accession table (ACC)

Definition

Table of the initial information assigned to the accession when it enters the NPGS system. Each accession has an internal primary key (acid) and a unique user key, the accession identifier. The unique key is composed of the accession prefix, number and suffix (acp, acno, acs). The accession prefix (acp) is either PI or a character string assigned by a site. The accession suffix is not always present. Other database tables reference the accession record through its internal primary key, and provide additional details about the source of the accession, its inventory status, evaluation data and order processing details.

Rules

A user can add, update or delete acc records for their site only. A user not from tax.psite1 or tax.psite2 can change site only to tax.psite1, tax.psite2 or INACTIVE. A user from tax.psite1 and tax.psite2 can update any accession area field or change site to another site, plus update or delete an INACTIVE acc record. Any user can insert, update, or delete records from tables below acc that do not contain a separate site field. A user from DBMU and PEO can add, update or delete acc records for another site, including INACTIVE. SBML can update only the taxno field.

Cannot delete an acc record if ipr, iv, or ob records exist.

Constraint

Primary key

Column: acid.

Foreign key

Column: pivol. References table PI (pivol).
Column: site. References table MAIN.SITE (site).
Column: taxno. References table TAX (taxno).

Unique key

Columns: acp, acno, acs.

Accession identifier (acid)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal number for the accession identifier. It serves as a link between the accession table and other tables in the database.

Rules

Primary key. Unique sequence number. Cannot be updated.

Accession prefix (acp)

Characteristics

VARCHAR2(4), Required, Coded

Definition

The prefix part of the unique three part accession identifier assigned to each accession. Permanent NPGS accessions have or will receive the prefix 'PI'. Sites assign other prefixes for material being grown or evaluated for entry into the permanent collection.

Rules

Site codes.

Codes

Value	Definition	Site
A1	G. herbaceum	COT
A2	G. arboreum	COT
AD1		COT
AD2		COT
AD3	G. tomentosum	COT
AD4	G. mustelinum	COT
AD5	G. darwinii	COT
AG	Arctic Germplasm Repository	PALM
AV		NR6
Ames		NC7
Anes		NC7
B		GEN
B1	G. anomalum	COT
B2	G. triphyllum	COT
B3		COT
BCAR		BRW
BGS		GSHO
BS		NR6
C1	G. sturtianum	COT
C10	G. pilosum	COT
C1n	G. nandewarense	COT
C2	G. robinsonii	COT
C3	G. australe	COT
C4		COT
C5	G. costulatum	COT
C6	G. populifolium	COT
C7	G. cunninghamii	COT
C8	G. pulchellum	COT
C9	G. nelsonii	COT
CACT	Actinidia	COR
CAME	Amelanchier	COR
CANE		MIA
CARB	Arbutus	COR
CASI	Asimina	COR
CAST	Astragalus	COR
CCAS	Castanea	COR
CCAV	Cavendisha	COR
CCEA	Ceanothus	COR
CCHA	Chaenomeles	COR
CCHA		NA

CCON	Cornus	COR
CCOR	Corylus	COR
CCOT	Cotoneaster	COR
CCOT		NA
CCRA	Crataegus	COR
CCRA		NA
CCYD	Cydonia	COR
CDEM	Demosthenesia	COR
CDIS	Disterigma	COR
CDOC	Docynia	COR
CDOC		NA
CDUC	Duchesnea	COR
CERI	Eribotyra	COR
CESC	Escallonia	COR
CFRA	Fragaria	COR
CGAU	Gaultheria	COR
CGAY	Gaylussacia	COR
CGEU	Geum	COR
CHIP	Hippophae	COR
CHOL	Holodiscus	COR
CHUM	Humulus	COR
CIGC	Intergeneric Cross	COR
CIae		NSGC
CIav		NSGC
CIfa		NSSL
CIho		NSGC
CIle		NSSL
CIor		NSGC
CIse		NSGC
CIso		NSSL
CItr		NSGC
CIxt		NSGC
CIze		NSSL
CJUG	Juglans	COR
CKAL	Kalmia	COR
CLOL	Lolium	COR
CLON	Lonicera	COR
CMEN	Mentha	COR
CMES	Mespilus	COR
CNEP	Nepeta	COR
CORT	Orthaea	COR
COST	Osteomeles	COR
COST		NA
CPER	Peraphyllum	COR
CPHO	Photinia	COR
CPHO		NA
CPI		S9
CPOT	Potentilla	COR
CPSA	Psammisia	COR
CPYA	Pyracantha	COR
CPYA		NA
CPYC	Pycnanthemum	COR
CPYR	Pyrus	COR
CRIB	Ribes	COR
CRUB	Rubus	COR
CSAM	Sambucus	COR
CSIB	Sibbaldia	COR

CSIP	Siphonandra	COR
CSOI	Sorbaria	COR
CSOR	Sorbus	COR
CSR	Crop Science Registration	Std.
CSTR		NA
CVAC	Vaccinium	COR
CZOY	Zoysia	COR
D1	G. thurberi	COT
D10	G. turnerii	COT
D11	G. schwendimanii	COT
D21	G. armourianum	COT
D22	G. harknessii	COT
D3d	G. davidsonii	COT
D3k	G. klotzschianum	COT
D4	G. aridum	COT
D5	G. raimondii	COT
D6	G. gossypioides	COT
D7	G. lobatum	COT
D8	G. trilobum	COT
D9	G. laxum	COT
DACT		DAV
DDIO		DAV
DFIC		DAV
DJUG		DAV
DLEG		DLEG
DMOR		DAV
DOLE		DAV
DPIS		DAV
DPRU		DAV
DPTE		DAV
DPUN		DAV
DVIT		DAV
E1	G. stocksii	COT
E2	G. somalense	COT
E3	G. areysianum	COT
E4	G. incanum	COT
ECU-		Std.
F		PGQO
F		NSGC
F1	G. longicalyx	COT
FC		SOY
FV		NR6
G		NE9
G		W6
G1	G. bickii	COT
GB		COT
GMAL		GEN
GPRU		Std.
GS		NR6
GSHO		GSHO
GSTR		GSTR
GVIT		GEN
Grif		S9
HANA	Hilo Ananas accessions	HILO
HART	Hilo Artocarpus accessions	HILO
HAVE	Hilo Averrhoa accessions	HILO
HBAC	Hilo Bactris accessions	HILO

HCAN	Hilo Canarium accessions	HILO
HCAR	Hilo Carica accessions	HILO
HDIM	Hilo Dimocarpus accessions	HILO
HEUG	Eugenia (crop guava)	HILO
HLIT	Hilo Litchi accessions	HILO
HMAC	Hilo Macadamia accessions	HILO
HMAL	Hilo Malpighia accessions	HILO
HNEP	Hilo Nephelium accessions	HILO
HPAS	Hilo Passiflora accessions	HILO
HPSE	Hilo Pseudananas accessions	HILO
HPSI	Hilo Psidium accessions	HILO
HSYZ	Hilo Syzygium accession	HILO
IO		Std.
LB		NR6
MB		NR6
MGS		GSZE
MIA		MIA
NA		NA
NGRL	Passport Data Not Assigned PI Numbers	PEO
NSGC		NSGC
NSL		Std.
NSL		NC7
PI	Plant Introduction	Std.
Q		Std.
RCRC	Temp - Riverside CRC number	RIV
RORL	Temp - Riverside (Orlando accessions)	RIV
RRUT	Temp - Riverside Rutaceae	RIV
RS		NR6
S		PGQO
SA		COT
SDS	Trial code	Std.
SY	Temporary SOY identifier	SOY
TARS		MAY
TC		TOB
TEMP	Temporary identifier	Std.
TEX		COT
TH		TOB
TI		TOB
TRC		Std.
TS9		S9
TW		TOB
URGY		Std.
VV	seedlab	NTSL
W6		W6
W6		GSPI
W6		PEO
aa		Std.

Accession number (acno)

Characteristics

NUMBER(7), Required

Definition

The numeric part of the unique three part accession identifier assigned to each accession.

Example

1234
500000

Accession suffix (acs)

Characteristics

VARCHAR2(4), Optional

Definition

Suffix part of the unique three part accession identifier assigned to each accession. Suffixes distinguish selections or sublines when new accession numbers are not assigned to existing accessions for historical or other reasons. Suffixes are also used for clonal growouts undergoing evaluation, and for accessions duplicated at two or more sites. Whenever possible, accessions with suffixes should be assigned unique PI numbers.

Example

a
01
.01
-1

Codes

Value	Definition	Site
AVRD	AVRDC samples	NSSL
BRNK	Brink Corn Collection	NSSL
CIP	CIP Potatoe Collection	NSSL
CMAL	AgriFoods Canada Malus backups	NSSL
CPCG	Center for Plant Conservation materials	NSSL
CRKH	Crookham corn	NSSL
CYMT	CYMMT materials	NSSL
NCAU	National Center for Agricultural Utilizn	NSSL
QUAR	NSSL Quarantine materials	NSSL

Site code (site)

Characteristics

VARCHAR2(8), Optional

Definition

The site currently holding and distributing the accession, even if only temporarily. If site is INACTIVE then accession is not maintained in any repository.

Example

NC7
NSSL
PGQO
INACTIVE

Rules

Foreign key. Link to site table. Uppercase.
On insert: if null or not (DBMU or PEO), set site = user's site.

Reason inactive (whynull)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

A coded explanation to show why the accession site is set to INACTIVE. These accessions are no longer maintained, and are kept in the database primarily for historical reasons. Accessions are only set to INACTIVE if the status is permanent. Temporary unavailability is listed in the inventory availability status.

Rules

Standard codes. Uppercase.
If acc.site = INACTIVE, whynull required, else whynull = null. On insert: if null, set whynull = NON-NPGS.
If acc.site updated from INACTIVE to an active site, clear whynull field, but not whynull narrative.

Codes

Value	Definition	Site
ARCHIVE	Archived on site	Std.
DISEASED	Disease Infected	Std.
DUPLICATE	Duplicate	Std.
EXPIRED	Expired or dead	Std.
INVIABLE	Inviable	Std.
NON-NPGS	Not in the NPGS	Std.
OTHER	See narrative	Std.
SUBLINED	Split into sublines	Std.

Core collection flag (core)

Characteristics

CHAR(1), Optional, Software supplied

Definition

A flag ('X') to show the accession is part of the core collection.

Rules

On insert: set core null. Value = X.
Updated by ob trigger if dsc.dqname = CORE and ob.ob = CORE, set core = X.

Backup flag (backup)

Characteristics

CHAR(1), Optional, Software supplied

Definition

A flag ('X') to show the establishment of a secondary site for the accession. Seed accessions are typically backed up at the National Seed Storage Laboratory.

Clonal accessions are backed up at another clonal site or at NSSL as budwood, tissue culture, pollen, etc.

Rules

On insert: set backup null. Value = X.

On update: if number of unique inventory sites > 1, set backup = X, else backup null.

Codes

Value	Definition	Site
D	Backed up at non-NPGS domestic site	Std.
F	Backed up at a foreign site	Std.
L	Backed up locally on-site	Std.
S	Backed up at another NPGS site	Std.
X	Backed up at the NSSL	Std.

Comments for Codes in Backup flag

D - User only
F - User only
L - User only
S - System update
X - System update

Life form (lifeform)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The basic life form of the accession.

Rules

Standard codes. Uppercase.

On insert: if null, set value from tax.lifeform, else verify code.

Codes

Value	Definition	Site
ANN-BI-PER	Annual/Biennial and/or Perennial	Std.
ANN-BIE	Annual and/or Biennial	Std.
ANN-PER	Annual and/or Perennial	Std.
ANNUAL	Annual	Std.
BIE-PER	Biennial and/or Perennial	Std.
BIENNIAL	Biennial	Std.
PERENNIAL	Perennial	Std.
SHRUB	Shrub	Std.
TREE	Tree	Std.
VINE	Vine	Std.

Improvement status (acimpt)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The relative improvement status of the accession.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
BREEDING	Breeding material	Std.
CLONE	Clone	Std.
CULTIVAR	Cultivar	Std.
CULTIVATED	Cultivated material	Std.
GENETIC	Genetic material	Std.
LANDRACE	Landrace	Std.
ROOTSTOCK	Rootstock	Std.
UNCERTAIN	Uncertain improvement status	Std.
WILD	Wild material	Std.

Reproductive uniformity (uniform)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The reproductive uniformity of this accession based on the method used to produce it originally. This is primarily applied to cultivated and breeding material.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
APOMICTIC	Apomictic	Std.
INBRED	Highly inbred	Std.
MIXTURE	Mixture	Std.
NUCELLAR	Nucellar	Std.
PARTINBRED	Partial inbred	Std.
POPULATION	Population	Std.
PURELINE	Pureline	Std.

Form received (acform)

Characteristics

CHAR(2), Optional, Coded

Definition

The type of propagule first given to the NPGS.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.

CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Date received (received)

Characteristics

DATE, Required

Definition

The date the accession initially becomes part of the NPGS collection. The precision of the date may be qualified with acc.datefmt. The date a site receives the material may be different from this initial entry, due to movement within the system. The date a site receives the accession is recorded in the inventory action (iact) table.

Example

01-JAN-93
01/25/1994
01/1994
1994

Rules

Must be a valid date since 1896.
The format mask stored in DATEFMT is applied to this date.
Oracle uses this format: DD-MON-YY. Acc.datefmt allows different formats for the date.

Date format (datefmt)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Format of received date as it was inserted.

Rules

Standard codes. Uppercase.

On insert: if null and received not null, set datefmt = MM/DD/YYYY.

On update: if null, do not update datefmt.

Codes

Value	Definition	Site
MM/DD/YYYY	Complete date	Std.
MM/YYYY	Year and month only	Std.
YYYY	Year only	Std.

Species number (taxno)

Characteristics

NUMBER(8), Required

Definition

The internal species identifier that indicates the taxonomy for the accession.

Rules

Foreign key. Link to tax table.

On insert: if taxon is a synonym (taxno <> validtaxno), then convert to valid taxonomy and add al record.

On update: RE-IDENT al record automatically created. Updated by tax form on nomenclature change.

PI volume (pivol)

Characteristics

NUMBER(3), Optional, Software supplied

Definition

The Plant Inventory volume number for this accession, if acp is 'PI'.

Example

193

Rules

Foreign key. Link to pi table.

On insert: if acp = PI, set from pi table.

On update: if acp = PI, set from pi table.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Example

OPS$DBMUSS

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Accession citation table (ACIT)

Definition

Table of references to the accession in the literature. One use of this table is for Crop Science citations of registered material.

Rules

A site can add, update or delete acit records for only their acc records. DBMU and PEO can add, update or delete acit records for another site.

Minimum data to add an acit record is one of these fields: abbr, cittitle.

Constraint

Primary key

Column: citno.

Foreign key

Column: acid. References table ACC (acid).
Column: abbr. References table LIT (abbr).

Citation number (citno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier assigned to the citation. It serves as a link between the accession citation table and other tables in the database.

Rules

Required. Primary key. Unique sequence number.
Can be updated unless referenced in other tables.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this accession citation.

Rules

Foreign key. Link to acc table. Cannot be updated. If acc record deleted, acit records automatically deleted.

Reference abbreviation (abbr)

Characteristics

VARCHAR2(20), Optional

Definition

The short abbreviation for this reference.

Example

Crop Sci
Agron J
Ann Bot
F Ariz

Rules

Foreign key. Link to lit table.

Citation title (cittitle)

Characteristics

VARCHAR2(240), Optional

Definition

The title of the article or chapter.

Example

Registration of ICGV 86564 Peanut Germplasm
Registration of Bayshore Smooth Cordgrass
Inheritance of Adult-Plant Resistance to Powdery Mildew in Knox 62 and Massey Winter Wheats
Systematics, Diversity, and Germplasm

Rules

cittitle <> lit.reftitle or lit.stdabbr.

Author of publication (author)

Characteristics
VARCHAR2(240), Optional
Definition
Author(s) of the article or chapter.
Example
R.R. Kalton, P. Richardson
P.E. Lake

Citation year (cityr)

Characteristics
NUMBER(4), Optional
Definition
The year the citation was published or made available.
Example
1994
Rules
Values between 1600 and (current year + 1).

Citation reference (citref)

Characteristics
VARCHAR2(60), Optional
Definition
The citation (volume, page, etc.) within the journal or book.
Example
34(1):300
18(10):920
pp. 3-11

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the citation.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Accession group table (AG)

Definition
Table of groups of secondary or alternate identifiers for accessions. These groups may reflect collecting trips, international back-ups, foreign gene bank cross-references, etc.
Rules
A site can add, update or delete ag records for their site only. DBMU can add, update or delete ag records for another site.
Constraint
Primary key
Column: agname.
Foreign key
Column: site. References table MAIN.SITE (site).

Accession group name (agname)

Characteristics
VARCHAR2(20), Required
Definition
A name to group alternate identifiers for the accession.
Example
VIR
UNESCO
CENARGEN
Rules

Primary key. Unique across sites. Uppercase.
Can be updated unless referenced in other tables.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the accession group, entered by the site.

Site code (site)

Characteristics
VARCHAR2(8), Optional
Definition
The site responsible for this group name record.
Rules
Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules

On insert: set to null.
On update: set to system date.

Universal Resource Locator for WWW (url)

Characteristics
VARCHAR2(240), Optional
Definition
Universal Resource Location of the Web Server at this institute. The URL combined with plant ID is used to look up information for an accession on a remote computer.

Accession narrative table (NARR)

Definition
Table of narratives for an accession. The narrative is visible to the public if it contains general information or if it contains an explanation as to why the site is INACTIVE. The narrative is not visible to the public if it contains internal site comments. Each accession can have any or all types of narratives.
Rules
A site can add, update or delete narr records for only their acc records. DBMU and PEO can add, update or delete narr records for another site.

Can have only one occurence of each type of narrative (ntype) for an accession.

Constraint
Primary key
Columns: acid, ntype.
Foreign key
Column: acid. References table ACC (acid).

Accession identifier (acid)

Characteristics
NUMBER(8), Required
Definition
The internal accession identifier for this narrative.
Rules
Foreign key. Link to acc table. Cannot be updated.
If acc record deleted, narr records automatically deleted.

Narrative type (ntype)

Characteristics
CHAR(1), Required, Coded
Definition
A code indicating the type of narrative (general, site, why inactive).

Rules

Standard codes. Uppercase. Cannot be updated. General (G) and inactive (I) ntypes for site and public display. Site (S) ntype for site display only.

Codes

Value	Definition	Site
G	General narrative	Std.
I	Inactive explanation	Std.
S	Site narrative	Std.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Narrative (narr)

Characteristics

VARCHAR2(2000), Required

Definition

The narrative contains general accession information (e.g., original passport data), site specific accession information, or the reason the accession is INACTIVE.

Annotation label table (AL)

Definition

Table of annotations (verifications and reidentifications) on the taxonomic names or other related information for each accession.

Rules

Only SBML can add a NOM-CHANGE al record. Any site can add an ID-CHECK al record. A site can add, update or delete ID-CHECK, RECEIVED and RE-IDENT al records for accessions at their site only. DBMU and PEO can add, update or delete al records for another site.

Constraint

Primary key

Column: alno.

Foreign key

Column: acid. References table ACC (acid).
Column: cno. References table COOP (cno).
Column: ivid. References table IV (ivid).
Column: newtaxno. References table TAX (taxno).
Column: oldtaxno. References table TAX (taxno).
Column: orno. References table ORD (orno).
Column: site. References table MAIN.SITE (site).

Unique key

Columns: action, acted, acid.

Sequence number (alno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique sequence number assigned to the annotation (verification or reidentification).

Rules

Primary key. Unique sequence number. Cannot be updated.

Annotation action (action)

Characteristics

CHAR(10), Required, Coded

Definition

The type of annotation, either a verification of the existing species, or a reidentification to a new species, for this accession.

Rules

Standard and site codes. Uppercase. Cannot be updated.
If action = RECEIVED: oldtaxno = tax.taxno of name received and newtaxno = acc.taxno.
If action = RE-IDENT: oldtaxno = old acc.taxno and newtaxno = new acc.taxno, must be a valid taxno.

If action = ID-CHECK: oldtaxno = current acc.taxno
and newtaxno = any tax.taxno.
If action = NOM-CHANGE: oldtaxno = old tax.taxno
and newtaxno = new tax.taxno, must be a valid taxno.
RE-IDENT record created by acc trigger when acc.taxno updated.
NOM-CHANGE record created by tax trigger when tax. taxno updated.

Codes

Value	Definition	Site
ID-CHECK	Name checked or verified	Std.
NOM-CHANGE	Nomenclature change	Std.
RE-IDENT	Re-identification	Std.
RECEIVED	Received as	Std.

Annotation date (acted)

Characteristics

DATE, Required

Definition

The date of the annotation (verification or reidentification).

Rules

Must be a valid date since 1896.
On insert or update: if null, set acted = system date.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this annotation.

Rules

Foreign key. Link to acc table. Cannot be updated.
If acc record deleted, al records automatically deleted.

Site code (site)

Characteristics

VARCHAR2(8), Optional

Definition

The site responsible for the annotation label.

Rules

Foreign key. Link to site table. Uppercase.
Cannot be updated.
On insert: if null or not (DBMU or PEO), set site = userid site.

Cooperator number (cno)

Characteristics
NUMBER(8), Optional
Definition
The internal cooperator identifier that is the authority for the re-identification or verification.
Rules
Foreign key. Link to coop table.
If action = ID-CHECK, cno is not null.

Inventory identifier (ivid)

Characteristics
NUMBER(8), Optional
Definition
The internal inventory identifier used for this reidentification.
Rules
Foreign key. Link to iv table.

Order number (orno)

Characteristics
NUMBER(8), Optional
Definition
Re-identification request order number.
Rules
Foreign key. Link to ord table.
Must be a valid order number.

Incorrect taxonomy (oldtaxno)

Characteristics
NUMBER(8), Optional
Definition
Species identifier of old or incorrect name.
Rules
Foreign key. Link to tax table.

Correct taxonomy (newtaxno)

Characteristics
NUMBER(8), Optional
Definition
Species identifier of new or correct name.
Rules
Foreign key. Link to tax table.

Annotation comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the verification or reidentification.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Collection locality/habitat table (HAB)

Definition
Table of location data for accessions collected in the wild or obtained from farmers, markets or other local sources. It does not apply to donations from breeders.
Rules
A site can add, update or delete hab records for only their acc records. DBMU and PEO can add, update or delete hab records for another site.

Minimum data to add a hab record is one of these fields: lonh, elev, cform, locality, habitat, cmt.

Hab records are created and linked to src records only when srctype = COLLECTOR.

Constraint
Primary key
Column: srcno.
Foreign key
Column: acid. References table ACC (acid).
Column: srcno. References table SRC (srcno).

Source number (srcno)

Characteristics
NUMBER(8), Required
Definition
The internal sequential number identifying the source history event.
Rules
Foreign key. Link to src table. Cannot be updated.
If src record deleted, hab records automatically deleted.

Accession identifier (acid)

Characteristics
NUMBER(8), Required
Definition
The internal accession identifier for this collection site.
Rules
Foreign key. Link to acc table. Cannot be updated.
If acc record deleted, hab records automatically deleted.

Degrees latitude (latd)

Characteristics
NUMBER(2), Optional, Minimum value = 0, Maximum value = 90
Definition
Degrees latitude of collection site.
Rules
Values between 0 and 90. Cannot have latd without lath.

Minutes latitude (latm)

Characteristics
NUMBER(2), Optional, Minimum value = 0, Maximum value = 59

Definition

Minutes latitude of collection site.

Rules

Values between 0 and 59. Cannot have latm without latd.

Seconds latitude (lats)

Characteristics

NUMBER(2), Optional, Minimum value = 0, Maximum value = 59

Definition

Seconds latitude of collection site.

Rules

Values between 0 and 59. Cannot have lats without latm.

Hemisphere latitude (lath)

Characteristics

CHAR(1), Optional, Coded

Definition

Code to indicate North or South hemisphere.

Rules

Standard codes. Uppercase.

Cannot have lath without latd and lonh.

Codes

Value	Definition	Site
N	North hemisphere	Std.
S	South hemisphere	Std.

Degrees longitude (lond)

Characteristics

NUMBER(3), Optional, Minimum value = 0, Maximum value = 180

Definition

Degrees longitude of collection site.

Rules

Values between 0 and 180. Cannot have lond without lonh.

Minutes longitude (lonm)

Characteristics

NUMBER(2), Optional, Minimum value = 0, Maximum value = 59

Definition

Minutes longitude of collection site.

Rules

Values between 0 and 59. Cannot have lonm without lond.

Seconds longitude (lons)

Characteristics
NUMBER(2), Optional, Minimum value = 0, Maximum value = 59
Definition
Seconds longitude of collection site.
Rules
Values between 0 and 59. Cannot have lons without lonm.

Hemisphere longitude (lonh)

Characteristics
CHAR(1), Optional, Coded
Definition
Code to indicate East or West hemisphere.
Rules
Standard codes. Uppercase.
Cannot have lonh without lond and lath.
Codes

Value	Definition	Site
E	East hemisphere	Std.
W	West hemisphere	Std.

Site elevation (elev)

Characteristics
NUMBER(5), Optional
Definition
Elevation of collection site in meters.

Quantity (quant)

Characteristics
NUMBER(), Optional
Definition
Quantity collected.

Units collected (units)

Characteristics
CHAR(2), Optional, Coded
Definition
Units of the quantity collected.
Rules
Standard codes. Lowercase.

Codes

Value	Definition	Site
ct	count	Std.
cu	cuttings	Std.
gm	gram	Std.
kc	count x 1000	Std.
kg	kilograms	Std.
mg	milligrams	Std.
ng	nanograms	Std.
pk	packet	Std.
ug	micrograms	Std.

Collected form (cform)

Characteristics

CHAR(2), Optional, Coded

Definition

Form of the material collected.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Plants collected (plants)

Characteristics
NUMBER(5), Optional
Definition
Number of plants sampled to obtain quantity collected.

Collection location (locality)

Characteristics
VARCHAR2(240), Optional
Definition
Original passport data describing the location where the accession was collected.
Example
Just over bridge on road to Eruh, N side of road. Billoris village area.
8.5 km S of Van on road to Tatvan, Van Province.
Military checkpoint at Guzelkonak, 22 km N of Semdinli, Hakkari Province.

Habitat or surrounding area (habitat)

Characteristics
VARCHAR2(240), Optional
Definition
Original passport data describing the immediate surroundings of the site where the accession was collected. This includes associated vegetation, soil description, slope, cultivation status.
Example
Tir wheat field, sown in widely spaced rows, stoney volcanic soil.
Base of hill in disturbed soil among small rocks.
Rocky basalt, E facing slope. Lower portion grazed.
Annual precipitation 2000 mm.
Elevation range 200-300 m.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Other collection site data not covered by locality and habitat.
Example
Said to be from Mexico, but grown here for 15 years.
Both spring and winter wheat grown here.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition

Login ID of the person who last entered or updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Geographic coordinate type (gctype)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Defines the system the collector used to take the latitude/longitude.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
GIS        LAT/LON determined from GIS               Std.
GPS        Lat/Lon determined via GPS system         Std.
MAP        Lat/Lon determined via Map location       Std.
```

Code Comments

GIS	Coordinates estimated from the locality information utilizing Geographic Information System (GIS) computer sofware.
GPS	Coordinates determined from a Global Positioning System (GPS) device at the collecting site.
MAP	Coordinates estimated from the locality information utilizing maps or gazeteers.

Intellectual property rights table (IPR)

Definition

Table of the intellectual property rights known for an accession. One accession can be covered by several IPR.

Rules

A site can add, update or delete ipr records for their site only. DBMU and PEO can add, update or delete ipr records for another site.

Minimum data to add an ipr record is one of these fields: iprid, iprname, cmt.

Constraint

Foreign key

Column: acid. References table ACC (acid).
Column: citno. References table ACIT (citno).
Column: cno. References table COOP (cno).
Column: site. References table MAIN.SITE (site).

Unique key

Columns: acid, iprtype, iprid.

Other indexes

Non-unique on column: iprcrop.

Non-unique on column: iprid.

Non-unique on column: iprno.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this intellectual property right.

Rules

Foreign key. Link to acc table. Cannot be updated.
Cannot delete an acc record if ipr records exist.

Protection type (iprtype)

Characteristics

VARCHAR2(10), Required, Coded

Definition

The type of intellectual property rights associated with the accession. Each accession can have several types of protection at the same time.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site

```
=====      ==========                                ====
CSR        Crop Science Registration                 Std.
FOREIGN    Foreign patent or license                 Std.
PENDING    Patent of license pending                 Std.
PLANT      U.S. Plant patent                         Std.
PVP        U.S. Plant Variety Protection             Std.
STATE      State patent or license                   Std.
UTILITY    U.S. Utility patent                       Std.
```

IPR identifier (iprid)

Characteristics

VARCHAR2(40), Optional

Definition

This identifier generally consists of a prefix and number specific for the protection type. Intellectual property rights identifiers are for cross referencing with the source of the protection.

IPR number (iprno)

Characteristics

NUMBER(9), Optional, Software supplied

Definition

The numeric portion of the intellectual property rights identifier.

Rules

Generated on input or update of iprid by stripping off leading characters.

IPR crop (iprcrop)

Characteristics

VARCHAR2(60), Optional

Definition

A grouping for intellectual property rights records. Some types of IPR have unique identifiers across plant groups while others use the same identifier across plant groups.

IPR name (iprname)

Characteristics

VARCHAR2(240), Optional

Definition

The name of the patent or property right listed on the IPR document. This is generally used with utility and plant patents, where the material patented is not a simple plant name.

Example

Amelanchier Shrub Named 'Prince William'
Bauer's Thornless Loganberry
Granny Val Grapevine

Date issued (issued)

Characteristics
DATE, Optional
Definition
The date the intellectual property rights were issued. Pending patents will have no issued date.
Rules
Must be a valid date since 1896.

Date expired (expired)

Characteristics
DATE, Optional
Definition
The date the intellectual property right or protection expired or was removed. The germplasm is available for distribution as long as no other form of protection applies.
Rules
Must be a valid date since 1896.
If both issued and expired are not null, expired >= issued.

Cooperator number (cno)

Characteristics
NUMBER(8), Optional
Definition
A unique number indicating the assignee for the IPR.
Rules
Foreign key. Link to coop table.

Accession citation number (citno)

Characteristics
NUMBER(8), Optional
Definition
The internal citation identifier that documents this intellectual property right.
Rules
Foreign key. Link to acit table.

Property rights comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the intellectual property rights for the accession.

Site code (site)

Characteristics
VARCHAR2(8), Optional
Definition
The site responsible for the intellectual property rights data.
Rules
Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Origin table (ORIGIN)

Definition

Taxonomy and origin based on the ACC_ORIGIN view, updated daily.

Constraint

Foreign key

Column: acid. Delete rule Cascade. References table ACC (acid).
Column: geono. Delete rule Cascade. References table GEO (geono).
Column: taxno. Delete rule Cascade. References table TAX (taxno).

Unique key

Columns: taxno, geono, acid.

Species number (taxno)

Characteristics

NUMBER(8), Required

Definition

Internal identifier for the taxonomy.

Geographic number (geono)

Characteristics

NUMBER(8), Optional

Definition

Internal identifier for the country.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

Internal identifier for the accession.

Pedigree table (PED)

Definition

Table of information on the pedigree. Although standards are not used for pedigrees, individual entries should be clear and consistent throughout each crop. These entries can also link with the accession citation table for published pedigrees.

Rules

A site can add, update or delete ped records for only their acc records. DBMU and PEO can add, update or delete ped records for another site.

Minimum data to add a ped record is one of these fields: released, citno, pedigree.

Can have only one ped record per accession.

Constraint
Primary key
Column: acid.
Foreign key
Column: acid. References table ACC (acid).
Column: citno. References table ACIT (citno).

Accession identifier (acid)

Characteristics
NUMBER(8), Required
Definition
The internal accession identifier for this pedigree.
Rules
Primary key. Foreign key. Link to acc table. Cannot be updated.
If acc record deleted, ped record automatically deleted.

Date released (released)

Characteristics
DATE, Optional
Definition
The date the cultivar/selection/line was released. The precision of the date may be qualified with ped. datefmt.
Example
01-JAN-94
01/25/1994
01/1994
1994
Rules
Must be a valid date since 1500.
The format mask stored in DATEFMT is applied to this date.

Date format (datefmt)

Characteristics
VARCHAR2(10), Optional, Coded
Definition
Format of released date as it was inserted.
Rules
Conditional. Standard codes. Uppercase.
On insert: if released not null and datefmt null, set datefmt = MM/DD/YYYY.
On update: if null, do not update datefmt.
Codes

```
Value      Definition                                Site
=====      ==========                                ====
MM/DD/YYYY Complete date                             Std.
MM/YYYY    Year and month only                       Std.
YYYY       Year only                                 Std.
```

Accession citation number (citno)

Characteristics

NUMBER(8), Optional

Definition

The internal accession citation identifier that documents this cultivar or breeding line/pedigree.

Rules

Foreign key. Link to acit table.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Plant pedigree (pedigree)

Characteristics

VARCHAR2(2000), Optional

Definition

The pedigree or parentage of a cultivated or improved accession. Pedigrees can be entered in a formal manner when available or more loosely. Wild material should not have pedigree information.

Example

Smith X CItr 12345
Selection from Clark
Sport of Martha Hitchcock
PI 271894/PI 546362
Valgerardo/Tibula
Sunstar*2//L1/Millewa
Luke/Daws//Hill 81
Composite of 126 accessions collected in Texas

Plant names/alternate identifiers table (AN)

Definition

Table of all plant names and secondary or alternate identifiers. The main purpose of this table is to cross reference our collection with other gene banks. These identifiers represent cultivar names, collector numbers, breeder lines, etc.

Rules

A site can add, update or delete an records for only their acc records. DBMU and PEO can add, update or delete an records for another site.

Constraint

Primary key

Column: anno.

Foreign key

Column: acid. References table ACC (acid).
Column: agname. References table AG (agname).
Column: cno. References table COOP (cno).
Column: ivid. References table IV (ivid).

Unique key

Columns: acid, plantid.

Other indexes

Non-unique on column: plantid.

Non-unique on column: searchid.

Plant names sequence number (anno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

A sequence number assigned to each accession name to uniquely identify each record.

Rules

Primary key. Unique sequence number. Cannot be updated.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this alternate name.

Rules

Foreign key. Link to acc table. Cannot be updated.
If acc record deleted, an records automatically deleted.

Identifier type (idtype)

Characteristics

VARCHAR2(10), Required, Coded

Definition

The type of accession name or identifier used.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
COLLECTOR	Collector identifier	Std.
CULTIVAR	Cultivar name	Std.
DEVELOPER	Developer identifier	Std.
DONOR	Donor identifier	Std.
DUPLICATE	Duplicate accession name	Std.
INSTITUTE	Institute identifier	Std.
LOCALNAME	Local name	Std.
MISIDENT	Misidentified cultivar name	Std.
OTHER	Other or unclassified name	Std.
QUARANTINE	Quarantine identifier	Std.
SITE	Site identifier	Std.
TRADEMARK	Trademark name	Std.
UNVERIFIED	Unverified name	Std.

Identifier rank (idrank)

Characteristics

NUMBER(4), Optional, Software supplied

Definition

A number assigned to idtype to show the relative importance of the name. Lower numbers are more important.

Rules

If topname null, then normal rank plus 1000.

Top name (topname)

Characteristics
CHAR(1), Optional
Definition
A flag ('X') to indicate this is an important name or identifier for the accession.
Rules
Value = X. User supplied and maintained.

Plant identifier (plantid)

Characteristics
VARCHAR2(40), Required
Definition
Any name or identifier other than the primary accession identifier and the taxonomy. See also searchid.
Example
PURPLESTRAW
Tousan 27
Q 25813
Grif 8613
IS 26760

Search identifier (searchid)

Characteristics
VARCHAR2(40), Optional, Software supplied
Definition
The plantid with all punctuation and special characters removed, then all characters converted to uppercase.
Rules
Uppercase.

Accession group name (agname)

Characteristics
VARCHAR2(20), Optional
Definition
A name to group alternate identifiers for an accession.
Rules
Foreign key. Link to ag table. Uppercase.

Inventory identifier (ivid)

Characteristics
NUMBER(8), Optional
Definition
The internal inventory identifier for this particular name or identifier.

Rules

Foreign key. Link to iv table.

Cooperator number (cno)

Characteristics

NUMBER(8), Optional

Definition

The internal cooperator identifier indicating the person or organization involved.
For example, the donor's institution by whom the identifier was assigned.

Rules

Foreign key. Link to coop table.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the accession name/alternate identifier.

Example

Indian.
Spanish. Translated means Blue Sky.
Named after Robin Smith, Head, Research Institute.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Quarantine table (QUAR)

Definition

Table of information about an accession in quarantine. Each accession can be restricted by several types of quarantine, but each accession can have only one occurrence of a particular type of quarantine.

Rules

A site can add, update or delete quar records for their site only. DBMU and PEO can add, update or delete quar records for another site.

Constraint

Primary key

Columns: acid, qtype.

Foreign key

Column: acid. References table ACC (acid).
Column: cno. References table COOP (cno).
Column: site. References table MAIN.SITE (site).

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this quarantine material.

Rules

Foreign key. Link to acc table. Cannot be updated.
If acc record deleted, quar records automatically deleted.

Quarantine type (qtype)

Characteristics

VARCHAR2(10), Required, Coded

Definition

The type of quarantine applied to the accession.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
3RD-PARTY	Third-country quarantine	Std.
COUNTY	Intrastate quarantine	Std.
INTL	International quarantine	Std.

```
POST-ENTRY Post-entry quarantine                    Std.
SELF       Self-imposed quarantine                  Std.
STATE      Interstate quarantine                    Std.
```

Code Comments

COUNTY	County to county quarantine.
POST-ENTRY	International post-entry quarantine.
SELF	Self-imposed site quarantine.
STATE	State to state quarantine.

Quarantine status (status)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The status of the accession and its progress through quarantine.

Rules

Site codes. Uppercase.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
DUPLICATE  Processing halted, already exists         Std.
FAILED     Material did not survive quar processing Std.
HELD       Plant material held                       Std.
RELEASED   Plant material fully released             Std.
REL_COND   Conditional release                       Std.
REL_OTHER  Non-standard release, special handling    Std.
REL_PROV   Provisional release                       Std.
STORAGE    Sent to NSSL for pre-quarantine storage   Std.
TERMINATED Processing halted before release          Std.
TRANSFER   Sent to outside agency for quarantine     Std.
```

Code Comments

HELD	Plant material held in quarantine.
RELEASED	Plant material fully released from quarantine. All tests have been performed.
REL_COND	Virus positive. Released under state jurisdiction.
REL_PROV	Tests to date are negative. Further tests pending.

Cooperator number (cno)

Characteristics

NUMBER(8), Required

Definition

The internal cooperator identifier indicating the person or location holding the material in quarantine.

Rules

Foreign key. Link to coop table.
On insert: if null, set cno = site cooperator record.

Date in quarantine (entered)

Characteristics

DATE, Optional

Definition

The date this accession entered a quarantine status or program.

Rules

Must be a valid date since 1896.

Date established (establish)

Characteristics

DATE, Optional

Definition

The date the accession was established at the quarantine location and is ready for observation and testing.

Rules

Must be a valid date since 1950.
Establish >= entered if both are not null.

Expected release date (expected)

Characteristics

DATE, Optional

Definition

The date quarantine testing is expected to be completed and the accession released to a distribution site. Additional time may be needed after release for multiplication and regeneration to sufficient size for distribution.

Rules

Must be a valid date since 1950.
If entered or establish and expected not null, expected >= entered or establish.

Date released (released)

Characteristics

DATE, Optional

Definition

The date this accession completed quarantine requirements and was released to a distribution site.

Rules

Must be a valid date since 1896.
If entered or establish and released not null, released >= entered or establish.

Quarantine comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the quarantine status of this accession.

Site code (site)

Characteristics
VARCHAR2(8), Optional
Definition
The site responsible for this quarantine record.
Rules
Foreign key. Link to site table. Uppercase.
On insert: if null or not (DBMU or PEO), set site = userid site.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules

On insert: set to null.
On update: set to system date.

Source history table (SRC)

Definition

Table of the details about the source history of an accession. Each step taken before the accession is incorporated into the NPGS is tracked.

Rules

A site can add, update or delete src records for only their acc records. DBMU and PEO can add, update or delete src records for another site.

Constraint

Primary key

Column: srcno.

Foreign key

Column: acid. References table ACC (acid).
Column: geono. References table GEO (geono).

Source number (srcno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The internal sequence number assigned to each source history event for an accession.

Rules

Primary key. Unique sequence number. Cannot be updated.

Source type (srctype)

Characteristics

VARCHAR2(10), Required, Coded

Definition

A code showing the type of source for the accession.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
COLLECTED	Collection source event	Std.
DEVELOPED	Developer source event	Std.
DONATED	Donor source event	Std.

Source date (srcdate)

Characteristics

DATE, Optional

Definition

The date of the particular step in the source history. The precision of the date may be qualified with src. datefmt.

Example

01-JAN-94
01/25/1994
01/1994
1994

Rules

Must be a valid date since 1500.
The format mask stored in DATEFMT is applied to this date.

Date format (datefmt)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Format of source date as it was inserted.

Rules

Conditional. Standard codes. Uppercase.
On insert: if srcdate not null and datefmt null, set datefmt = MM/DD/YYYY.
On update: if null, do not update datefmt.

Codes

Value	Definition	Site
MM/DD/YYYY	Complete date	Std.
MM/YYYY	Year and month only	Std.
YYYY	Year only	Std.

Origin flag (origin)

Characteristics

CHAR(1), Optional

Definition

A flag ('X') to show which step in the source history is the most important and considered the origin.

Rules

Value = X. User supplied and maintained. Only one src record should be flagged as the origin at one time.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this source history.

Rules

Foreign key. Link to acc table. Cannot be updated.
If accession deleted, src records automatically deleted.

Geographic number (geono)

Characteristics
NUMBER(8), Optional
Definition
The internal geographic identifier showing where the accession was collected, developed or donated.
Rules
Foreign key. Link to geo table.
If geono = synonym, convert geono to valid country. Only DBMU can add src records if geono <> synonym and cflag = N.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the source history, entered by the site.
Example
This was the original collection.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Date qualifier (srcqual)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

This field further defines the source date.

Codes

Value	Definition	Site
NEAR	Source event occurred around date shown	Std.
POST	Source event occurred after date shown	Std.
PRE	Source event occurred before date shown	Std.

Source member table (SMBR)

Definition

Table of the cooperator(s) who participated in a source history event.

Rules

A site can add, update or delete smbr records for only their acc records. DBMU and PEO can add, update or delete smbr records for another site.

Constraint

Primary key

Columns: srcno, cno.

Foreign key

Column: acid. References table ACC (acid).
Column: cno. References table COOP (cno).
Column: srcno. References table SRC (srcno).

Source number (srcno)

Characteristics

NUMBER(8), Required

Definition

The unique internal sequential number identifying the source history event.

Rules

Foreign key. Link to src table.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this source member.

Rules

Foreign key. Link to acc table. Cannot be updated.
If src record deleted, smbr records automatically deleted.

Cooperator number (cno)

Characteristics

NUMBER(8), Required

Definition

The internal cooperator identifier indicating the person or organization that participated in this source event.

Rules

Foreign key. Link to coop table.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Cooperator Area -- Tables Owned by PROD

Cooperator table (COOP)

Definition

Table of individuals and organizations involved with germplasm activities (donors, collectors, breeders, requestors, etc.). Historic addresses for a person or institution can be kept and point to the current address. Either the historic or the current address can be used depending on the application.

Rules

A site can add, update or delete coop records for their site only. DBMU can add, update or delete coop records for another site.

Minimum data to add a coop record is one of these fields: lname, org. Cannot delete a coop record if used by another site's cg record or used anywhere else in the database (e.g., smbr, an, ord, etc.).

Constraint

Primary key

Column: cno.

Foreign key

Column: validcno. References table COOP (cno).

Column: geono. References table GEO (geono).

Column: site. References table MAIN.SITE (site).

Unique key

Columns: coop, geono, city, add1.

Other indexes

Non-unique on column: org.

Non-unique on columns: lname, fname.

Non-unique on column: orgid.

Cooperator number (cno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The internal cooperator identifier for this person or organization. It serves as a link between the cooperator table and other tables in the database.

Rules

Primary key. Unique sequence number. Can be updated unless referenced in other tables.

Valid cooperator number (validcno)

Characteristics

NUMBER(8), Optional

Definition

The internal cooperator number of the current address of this individual or organization. It will be different from cno when a record is historic. Used to locate the current address of the cooperator.

Rules

Foreign key. Link to coop table.
If validcno = cno, active = X.
If validcno <> cno, active is null.

Site code (site)

Characteristics

VARCHAR2(8), Optional

Definition

The site responsible for this cooperator record.

Rules

Foreign key. Link to site table. Uppercase.
On insert: if null, set site = userid site.
Cannot be updated except by DBMU.

Last name (lname)

Characteristics

VARCHAR2(40), Optional

Definition

The last name of the cooperator. Leave blank if record is for an institution.

Example

Mowder
duCellier
Van Veltzen

Rules

Initcap, unless it is mixed case.

Cooperator's title (title)

Characteristics

VARCHAR2(5), Optional, Coded

Definition

The title of the cooperator.

Rules

Standard codes. Initcap.

Codes

Value	Definition	Site
Dir.	Director	Std.
Dr.	Doctor	Std.
Fr.	Frau	Std.
Frl.	Fraulein	Std.
Hr.	Herr	Std.
Ing.	Engineer	Std.
M.	Monsieur	Std.
Miss	Miss	Std.
Mlle.	Mademoiselle	Std.
Mme.	Madame	Std.
Mr.	Mister	Std.
Mrs.	Mrs.	Std.
Ms.	Ms.	Std.
Past.	Pastor	Std.
Prof.	Professor	Std.
Sir	Sir	Std.
Sr.	Senor	Std.
Sra.	Senora	Std.
Srta.	Senorita	Std.

First name (fname)

Characteristics

VARCHAR2(30), Optional

Definition

The first and any other given names of the cooperator. Enter the full first name with additional names represented by initials followed by a period and space. Make sure there is a space between each part of the name, whether a complete name or only initials.

Example

John R.
Mary Jane K.

Rules

Initcap, unless it is mixed case.

Job title (job)

Characteristics

VARCHAR2(40), Optional

Definition

The job/position of the cooperator.

Example

Director
Research Leader

Organization (org)

Characteristics

VARCHAR2(60), Optional

Definition

The full organization or institute name of the cooperator.

Example

International Rice Research Institute
International Institute of Tropical Agriculture

Organization code (orgid)

Characteristics

VARCHAR2(10), Optional

Definition

The abbreviation, acronym or initials of the organization.

Example

IRRI
IITA

Rules

Uppercase.

Address line 1 (add1)

Characteristics

VARCHAR2(60), Optional

Definition

The subdivision (Department, Branch, Unit, Division) of the organization if one exists. Otherwise it contains address information (e.g., Street, P.O. Box).

Example

Department of Agronomy
P.O. Box 57
1600 Pennsylvania Avenue

Address line 2 (add2)

Characteristics

VARCHAR2(60), Optional

Definition

Additional address information.

Example

Room 400, Building 003
P.O. Box 16

Rules

If add1 null, move add2 to add1.

Address line 3 (add3)

Characteristics

VARCHAR2(60), Optional

Definition

Additional address information.

Rules

If add2 null, move add3 to add2.

City name (city)

Characteristics

VARCHAR2(20), Optional

Definition

The city where the cooperator is located. Any postal code should be placed in the zip code column.

Example

Beltsville
College Park

Rules

Initcap.

Zip code (zip)

Characteristics

VARCHAR2(10), Optional

Definition

The postal zip code for the address. A decode function can be used to place this field properly.

Example

12345-6789

Rules

Uppercase.

Geographic number (geono)

Characteristics

NUMBER(8), Optional

Definition

The internal geographic identifier to indicate the country and state of the cooperator.

Rules

Foreign key. Link to geo table.

First phone number (phone1)

Characteristics

VARCHAR2(30), Optional

Definition

The voice telephone number for the cooperator. Where applicable, enter as a three digit area code, three digit prefix and four digit number separated by hyphens.

Example

301-504-5666

Second phone number (phone2)

Characteristics

VARCHAR2(30), Optional

Definition

A second voice telephone number for the cooperator. Where applicable, enter as a three digit area code, three digit prefix and four digit number separated by hyphens.

Example

301-504-6771

Fax number (fax)

Characteristics

VARCHAR2(30), Optional

Definition

The FAX number of the cooperator. Where applicable, enter as a three digit area code, three digit prefix and four digit number separated by hyphens.

Example

301-504-5536

Electronic mail address (email)

Characteristics

VARCHAR2(100), Optional

Definition

The electronic mail addresses of the cooperator.

Example

jmowder@ars-grin.gov

Rules

Lowercase.

Active/current address flag (active)

Characteristics

CHAR(1), Optional, Software supplied

Definition

A flag ('X') to indicate this record is active/current address for the cooperator.

Rules

Conditional.

If cno = validcno, set active = 'X'.

On update: where active <> X, do not link mbr records to new current coop record if cg.historical = X.

Cooperator category (cat)

Characteristics

CHAR(4), Optional, Coded

Definition

General categories for grouping cooperators by national or international affiliation. It is mainly used for management queries (e.g., annual distribution report).

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
FCOM	Foreign commercial company	Std.
FGEN	Foreign genebank/genetic resources unit	Std.
FIND	Foreign individual no affiliation	Std.
FPRU	Foreign non-commercial organization	Std.
INT	CGIAR International Agr. Res. Center	Std.
STA	U.S. state agencies and all universities	Std.
UAID	US Agency for International Development	Std.
UARS	Agricultural Research Service	Std.
UCOM	U.S. commercial company	Std.
UFED	U.S. federal agency (not AID or ARS)	Std.
UIND	U.S. individual no affiliation	Std.
UPRU	U.S. non-profit organizations	Std.

Code Comments

FCOM	Foreign commercial seed/biotech/chemical company (Petoseed, Ciba-Geigy, Rhone-Polence) with destination outside the U.S.
FGEN	Foreign national genetic resources program or genebank.
FIND	Foreign individual without any organizational affiliation.
FPRU	Foreign public organizations such as universities, embassies, institutes, botanical gardens, and non-commercial research organizations.
INT	CGIAR International Agricultural Research Centers, FAO.
STA	U.S. state agricultural experiment stations, universities, and state agricultural departments.
UARS	U.S. Department of Agriculture, Agricultural Research Service.
UCOM	U.S. commercial seed/biotech/chemical company (Pioneer Hi-Bred, Monsanto, Dupont) with the destination inside the U.S.
UFED	Other U.S. federal organizations.
UIND	U.S. individual without any organizational affiliation.
UPRU	U.S. non-profit organization, such as botanical gardens, associations, societies, institutes, councils, foundations, academies.

ARS region (arsregion)

Characteristics

VARCHAR2(3), Optional, Software supplied, Coded

Definition

The ARS region where the cooperator is located if in the United States.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
BA	Beltsville Area	Std.
HDQ	Headquarters	Std.
MSA	Mid South Area	Std.
MWA	Midwest Area	Std.
NAA	North Atlantic Area	Std.
NPA	Northern Plains Area	Std.
PWA	Pacific West Area	Std.
SAA	South Atlantic Area	Std.
SPA	Southern Plains Area	Std.

Code Comments

BA	Includes Beltsville and Hyattsville, Maryland and Washington, D.C.
HDQ	Includes Washington, D.C.; Beltsville and Greenbelt, Maryland.
MSA	Includes Alabama, Kentucky, Louisiana, Mississippi, and Tennessee.
MWA	Includes Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin.
NAA	Includes Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, West Virginia.
NPA	Includes Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, Utah and Wyoming.
PWA	Includes Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon and Washington.
SAA	Includes Florida, Georgia, North Carolina, Puerto Rico, South Carolina, Virginia and the U.S. Virgin Islands.
SPA	Includes Arkansas, New Mexico, Oklahoma and Texas.

Discipline or specialty (discipline)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The primary scientific discipline or interest of the cooperator.

Rules

Standard codes. Initcap.

Codes

Value	Definition	Site
Agronomy		Std.
Botany		Std.
Breeding		Std.
Chemistry		Std.
Commercial	Commercial Seed Company	Std.
Cytogen	Cytogenetics	Std.
Entomology		Std.
Extension		Std.
Genetics		Std.
Hort	Horticulture	Std.
Marketing		Std.
Molecular		Std.
Nematology		Std.
Nursery		Std.
Nutrition		Std.
Pathology		Std.
Physiology		Std.
Producer		Std.
Regulatory		Std.
Soil		Std.
Taxonomy		Std.
Virology		Std.

First name initials (initials)

Characteristics

VARCHAR2(6), Optional, Software supplied

Definition

The first letter of each part of the first name field.

Rules

Conditional. Uppercase. Generated when fname is inserted or updated. Null if fname is null.

Cooperator (coop)

Characteristics

VARCHAR2(100), Optional, Software supplied

Definition

A combination, in this order, of the last name, the first initial of the first name, and the long organization name. This field is displayed in the maintenance modules to identify the person or institution involved.

Example

Abawi, G., Cornell University
A.E. Staley Manufacturing Company

Rules

Generated on input or update of lname, first initial of first name and/or org.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the cooperator.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Cooperator group table (CG)

Definition
Table of groups of cooperators (donors, collectors, breeders, requestors, etc.). Typical groupings would be for mailing lists, committees, institutional affiliations, or areas of interest.
Rules
A site can add, update or delete cg records for their site only. DBMU can add, update or delete cg records for another site.
Constraint

Primary key
Column: cgid.
Foreign key
Column: site. References table MAIN.SITE (site).
Unique key
Column: cgname.

Cooperater Group identifier (cgid)

Characteristics
VARCHAR2(20), Required
Definition
The unique internal identifier for the cooperator group. It can be composed of numbers and characters, but should not contain spaces.
Rules
Primary key. Unique across sites. Uppercase.
Can be updated unless referenced in other tables.

Cooperator group name (cgname)

Characteristics
VARCHAR2(60), Optional
Definition
An expanded name for groups, generated by the user. It may contain spaces.
Rules
Unique across sites.

Site code (site)

Characteristics
VARCHAR2(8), Optional
Definition
The site responsible for this group and its members.
Rules
Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

System group flag (historical)

Characteristics
CHAR(1), Optional, Software supplied
Definition
A flag ('X') to indicate members keep the old address when the cooperator address is updated.
Rules

Value = X. Default is null.
User supplied and maintained.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments concerning the group.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Cooperator group member table (MBR)

Definition
Table of the cooperator(s) associated with a cooperator group, and their role within the group.
Rules

A site can add, update or delete mbr records for only their cg records. They may include cooperators from any site. DBMU can add, update or delete mbr records for another site.

Constraint

Primary key

Columns: cno, cgid.

Foreign key

Column: cgid. References table CG (cgid).

Column: cno. References table COOP (cno).

Cooperator number (cno)

Characteristics

NUMBER(8), Required

Definition

The internal cooperator identifier involved in the group.

Rules

Foreign key. Link to coop table.

If coop record deleted and cg record owned by same site, mbr record automatically deleted. If cg record deleted, then all mbr records automatically deleted.

Cooperator group identifier (cgid)

Characteristics

VARCHAR2(20), Required

Definition

The cooperator group identifier.

Rules

Foreign key. Link to cg table. Uppercase.

Cannot be updated.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

The role of the person or organization in the group or other comments about this group member.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Local identifier (localid)

Characteristics

VARCHAR2(10), Optional

Definition

The site's local identifier.

Evaluation Procedure Area -- *Tables Owned by PROD*

Evaluation table (EVAL)

Definition

Table of the list of evaluations and procedures used in determining the crop specific attributes of the germplasm. Each environment used in an evaluation should have its own record. Other procedures can also be included in this table (e.g., germination procedures).

Rules

A site can add, update or delete eval records for their site only. Only DBMU can add, update or delete eval records for another site.

Cannot delete eval record if ob, iact (action = GERM), embr or ecit exist.

Constraint

Primary key

Column: eno.

Foreign key

Column: geono. References table GEO (geono).

Column: site. References table MAIN.SITE (site).

Unique key

Column: ename.

Evaluation number (eno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal evaluation identifier for the evaluation or procedure.

Rules

Primary key. Unique sequence number. Can be updated unless referenced in other tables.

Evaluation name (ename)

Characteristics

VARCHAR2(40), Required

Definition

Unique name describing the evaluation environment or procedure.

Example

BARLEY.LEAFRUST.FARGO.92
NC7.SUNFLOWER.80

Rules

Unique across database. Uppercase.
On insert or update: convert spaces between words to periods.

Site code (site)

Characteristics
VARCHAR2(8), Optional
Definition
The site responsible for evaluations.
Rules
Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

Geographic number (geono)

Characteristics
NUMBER(8), Optional
Definition
The internal geographic identifier to indicate where the evaluation took place.
Rules
Foreign key. Link to geo table.
Must be a valid country where cflag = Y.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Materials and methods (methods)

Characteristics

VARCHAR2(2000), Optional

Definition

Evaluation materials and methods of the procedure used. If the study has been published, only a brief summary should be entered.

Evaluation citation table (ECIT)

Definition

Table of citations of evaluation results or details on a procedure used in the evaluation.

Rules

A site can add, update or delete ecit records for only their eval records. DBMU can add, update or delete ecit records for another site.

Minimum data to add an ecit record is one of these fields: abbr, cittitle.

Constraint

Primary key

Column: citno.

Foreign key

Column: eno. References table EVAL (eno).
Column: abbr. References table LIT (abbr).

Citation number (citno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier assigned to the evaluation citation. It serves as a link between the evaluation citation table and other tables in the database.

Rules

Primary key. Unique sequence number. Cannot be updated.

Evaluation number (eno)

Characteristics

NUMBER(8), Required

Definition

The internal evaluation identifier for the citation.

Rules

Foreign key. Link to eval table. Cannot be updated.
If eval record deleted, ecit record automatically deleted.

Reference abbreviation (abbr)

Characteristics

VARCHAR2(20), Optional

Definition

The short abbreviation for this reference.

Example

Crop Sci
Agron J
Ann Bot
F Ariz

Rules

Foreign key. Link to lit table.

Citation title (cittitle)

Characteristics

VARCHAR2(240), Optional

Definition

The title of the article or chapter.

Example

Registration of ICGV 86564 Peanut Germplasm
Registration of Bayshore Smooth Cordgrass
Inheritance of Adult-Plant Resistance to Powdery Mildew in Knox 62 and Massey Winter Wheats
Systematics, Diversity, and Germplasm

Rules

cittitle <> lit.reftitle or lit.stdabbr.

Author of publication (author)

Characteristics

VARCHAR2(240), Optional

Definition

Author(s) of the article or chapter.

Example

R.R. Kalton, P. Richardson
P.E. Lake

Citation year (cityr)

Characteristics
NUMBER(4), Optional
Definition
The year the citation was published or made available.
Rules
Values between 1600 and (current year + 1).

Citation reference (citref)

Characteristics
VARCHAR2(240), Optional
Definition
The citation (volume, page, etc.) within the journal or book.
Example
34(1):300
18(10):920
pp. 3-11

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the citation.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Evaluation member table (EMBR)

Definition
Table of the person or group that performed the evaluation.
Rules
A site can add, update or delete embr records for only their eval records. DBMU can add, update or delete embr records for another site.
Constraint
Primary key
Columns: cno, eno.
Foreign key
Column: cno. References table COOP (cno).
Column: eno. References table EVAL (eno).

Cooperator number (cno)

Characteristics
NUMBER(8), Required
Definition
The internal cooperator identifier involved in this evaluation.
Rules
Foreign key. Link to coop table.

Evaluation number (eno)

Characteristics
NUMBER(8), Required
Definition
The internal evaluation identifier for the researcher.
Rules
Foreign key. Link to eval table. Cannot be updated.
If eval record is deleted, embr records automatically deleted.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Exploration Area -- Tables Owned by PROD

Exploration table (EXPL)

Definition

Table of data for plant explorations.

Rules

A PEO user can add, update or delete records from the exploration table. DBMU can add, update or delete EXPL records.

Constraint

Primary key

Column: explid.

Foreign key

Column: cno. References table COOP (cno).

Exploration identifier (explid)

Characteristics

VARCHAR2(10), Required

Definition

An assigned code designed to uniquely identify each exploration.

Rules

Unique number. Cannot be updated.

Exploration title (title)

Characteristics

VARCHAR2(240), Optional

Definition

Title of the written report on the exploration.

Exploration began (began)

Characteristics

DATE, Optional

Definition

Date the exploration began.

Rules

Must be a valid date since 1950.

Exploration finished (finished)

Characteristics

DATE, Optional

Definition

Date the exploration ended.

Rules

Must be a valid date since 1950.

Exploration funding source (fundsrc)

Characteristics

VARCHAR2(60), Optional

Definition

Organization that provided funding for the exploration.

Exploration funding amount (fundamt)

Characteristics

NUMBER(8), Optional

Definition

Amount of funding allocated for the exploration.

Exploration target plants (target)

Characteristics

VARCHAR2(40), Optional

Definition

Plants the exploration was designed to collect.

Exploration permits (permits)

Characteristics

VARCHAR2(240), Optional

Definition

Permits obtained from host country for collection and exportation of plant material.

Exploration restrictions (restrict)

Characteristics

VARCHAR2(10), Optional

Definition

Host country restrictions put on use of material collected.

Exploration erosion reports (erosion)

Characteristics

VARCHAR2(3), Optional

Definition

Whether or not a FAO Genetic Erosion Report was submitted.

Codes

Value	Definition	Site
NO	No, erosion report was not submitted	Std.
YES	Yes, erosion report was submitted	Std.

Exploration host organization (cno)

Characteristics

NUMBER(8), Optional

Definition

Host country organization that sponsored the exploration.

Rules

Foreign key. Link to coop table.

Exploration comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the exploration, entered by PEO.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = SUBSTR(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Example

OPS$DBMUSS

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Exploration accession table (EXACC)

Definition

Table of data for accessions collected on plant explorations.

Rules

PEO user can add, update or delete records from the exploration accession table.
DBMU can add, update or delete exploration accession records.

Constraint

Foreign key

Column: acid. References table ACC (acid).
Column: explid. References table EXPL (explid).
Column: geono. References table GEO (geono).
Column: site. References table MAIN.SITE (site).
Column: taxno. References table TAX (taxno).
Column: validtaxno. References table TAX (taxno).

Other indexes

Non-unique on column: collid.

Exploration accession collector identifier (collid)

Characteristics

VARCHAR2(40), Optional

Definition

The voucher or collection identifier assigned by the collector.

Exploration identifier (explid)

Characteristics

VARCHAR2(10), Optional

Definition

The exploration number assigned to the exploration.

Rules

Foreign key. Link to exlp table. Cannot be updated.

Exploration accession species number (taxno)

Characteristics

NUMBER(8), Optional, Software supplied

Definition

Species identifier for the taxon/species.

Rules

Foreign key. Link to tax table. Software supplied on insert of species name.

Exploration accession site (site)

Characteristics

VARCHAR2(8), Optional

Definition

The site currently holding and distributing the accession.

Example

NC7
NSSL
PROD
PGQO
INACTIVE

Rules

Foreign key. Link to site table. Uppercase. Software supplied on insert of ACID.

Exploration accession identifier (acid)

Characteristics

NUMBER(8), Optional

Definition

The unique internal number for the accession identifier. It serves as a link between the accession table and other tables in the database.

Rules

Foreign key. Link to accession table. Software supplied when COLLID is inserted and matches a GRIN entry.

Exploration accession form received (acform1)

Characteristics

CHAR(2), Optional, Coded

Definition

The type of propagule collected.

Rules

Standard codes. Uppercase. 4 separate fields for up to four different forms received.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.

GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Exploration accession form received (acform2)

Characteristics

CHAR(2), Optional, Coded

Definition

The type of propagule collected.

Rules

Standard codes. Uppercase. 4 separate fields for up to four different forms received.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.

SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Exploration accession form received (acform3)

Characteristics

CHAR(2), Optional, Coded

Definition

The type of propagule collected.

Rules

Standard codes. Uppercase. 4 separate fields for up to four different forms received.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Exploration accession form received (acform4)

Characteristics

CHAR(2), Optional, Coded

Definition

The type of propagule collected.

Rules

Standard codes. Uppercase. 4 separate fields for up to four different forms received.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Exploration accession geographic number (geono)

Characteristics

NUMBER(8), Optional, Software supplied

Definition

The internal geographic identifier showing from where the accession was collected, developed, or donated.

Rules

Foreign key. Link to geo table. Software supplied when COLLID is inserted and matches a GRIN entry.

Exploration county (county)

Characteristics

VARCHAR2(30), Optional

Definition

County where the accession was collected.

Exploration accession degrees latitude (latd)

Characteristics

NUMBER(2), Optional, Minimum value = 0, Maximum value = 90

Definition

Degrees latitude of collection site.

Rules

Values between 0 and 90. Cannot have latd without lath. Software supplied when COLLID is inserted and matches a GRIN entry.

Exploration accession minutes latitude (latm)

Characteristics

NUMBER(2), Optional, Minimum value = 0, Maximum value = 59

Definition

Minutes latitude of collection site.

Rules

Values between 0 and 59. Cannot have latm without latd. Software supplied when COLLID is inserted and matches a GRIN entry. When a decimal fraction, fractional portion is converted to seconds.

Exploration accession seconds latitude (lats)

Characteristics

NUMBER(2), Optional, Minimum value = 0, Maximum value = 59

Definition

Seconds latitude of collection site.

Rules

Values between 0 and 59. Cannot have lats without latm. Software supplied when COLLID is inserted and matches a GRIN entry. Software computed when LATM was entered as a decimal fraction.

Exploration accession hemisphere latitude (lath)

Characteristics

CHAR(1), Optional, Coded

Definition

Code to indicate North or South hemisphere. Cannot have lath without latd and lonh.

Rules

Standard codes. Uppercase.

Cannot have lath without latd and lonh. Software supplied when COLLID is inserted and matches a GRIN entry.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
N          North hemisphere                          Std.
S          South hemisphere                          Std.
```

Exploration accession degrees longitude (lond)

Characteristics

NUMBER(3), Optional, Minimum value = 0, Maximum value = 180

Definition

Degrees longitude of collection site.

Rules

Values between 0 and 180. Cannot have lond without lonh. Software supplied when COLLID is inserted and matches a GRIN entry.

Exploration accession minutes longitude (lonm)

Characteristics

NUMBER(2), Optional, Minimum value = 0, Maximum value = 59

Definition

Minutes longitude of collection site.

Rules

Values between 0 and 59. Cannot have lonm without lond. Software supplied when COLLID is inserted and matches a GRIN entry. When a decimal fraction, fractional portion is converted to seconds.

Exploration accession seconds longitude (lons)

Characteristics

NUMBER(2), Optional, Minimum value = 0, Maximum value = 59

Definition

Seconds longitude of collection site.

Rules

Values between 0 and 59. Cannot have lons without lonm. Software supplied when COLLID is inserted and matches a GRIN entry. Software computed when LONM was entered as a decimal fraction.

Exploration accession hemisphere longitude (lonh)

Characteristics

CHAR(1), Optional, Coded

Definition

Code to indicate East or West hemisphere.

Rules

Standard codes. Uppercase. Cannot have lonh without lond and lath. Software supplied when COLLID is inserted and matches a GRIN entry.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
E          East hemisphere                           Std.
W          West hemisphere                           Std.
```

Exploration accession site elevation (elev)

Characteristics

NUMBER(5), Optional

Definition

Elevation of collection site in meters.

Rules

Software supplied when COLLID is inserted and matches a GRIN entry.

Exploration accession geographic coordinate type (gctype)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Defines the system the collector used to take the latitude/longitude.

Rules

Software supplied when COLLID is inserted and matches a GRIN entry.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
GIS        LAT/LON determined from GIS               Std.
GPS        Lat/Lon determined via GPS system         Std.
MAP        Lat/Lon determined via Map location       Std.
```

Code Comments

GIS	Coordinates estimated from the locality information utilizing Geographic Information System (GIS) computer sofware.
GPS	Coordinates determined from a Global Positioning System (GPS) device at the collecting site.
MAP	Coordinates estimated from the locality information utilizing maps or gazeteers

Exploration accession general comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about exploration accession, entered by PEO.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = SUBSTR(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Example
OPS$DBMUSS
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Exploration accession valid taxonomy (validtaxno)

Characteristics
NUMBER(8), Optional
Definition
Species identifier for the valid taxon if this is a synonym.
Rules
Foreign key. Link to tax table. Software supplied on insert of species name. If validtaxno = taxno, taxon = valid name. If valid taxno <> taxno,taxon = synonym.

Exploration participants table (EXMBR)

Definition
Table of individuals participating in the exploration.
Rules
PEO can add, update or delete exmbr records. DBMU can add, update or delete exmbr records.
Constraint

Foreign key
Column: cno. References table COOP (cno).
Column: explid. References table EXPL (explid).
Unique key
Columns: explid, cno.

Exploration identifier (explid)

Characteristics
VARCHAR2(10), Optional
Definition
The exploration number assigned to the exploration.
Rules
Foreign key. Link to expl table. Cannot be updated.

Exploration participant cooperator number (cno)

Characteristics
NUMBER(8), Optional
Definition
Host country restrictions put on use of material collected.
Rules
Foreign key. Link to coop table.

Exploration participant comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the exploration participants, entered by PEO.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = SUBSTR(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Example
OPS$DBMUSS
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Inventory Area -- Tables Owned by PROD

Inventory table (IV)

Definition

Table of all the inventories held at repositories. There may be several samples for an accession at a site corresponding to different generations, storage types, locations, etc. Each accession has a primary key, the ivid. Each accession also has a site assigned identifier which is composed of the inventory prefix, number, suffix and type. The inventory suffix is not always present. Inventory samples are grouped by the inventory maintenance group name.

Rules

A site can add, update or delete iv records for their site only. A site can add an iv record to another site's accession if acp = PI. DBMU can add, update or delete iv records for another site.

If psite1 or psite2 <> acc.site and if acp = PI and if psite1 or psite2 add an iv record where status = AVAIL, set acc. site = iv.site. A backupiv site can update an iv record where backupiv site <> iv site.

Cannot delete iv record if used in the iv.parent or iv.backupiv fields, or al, an, ob, oi, vou records exist.

When a record is created, default values are copied from the im table for ivt, dquant, dform, dunits, munits, rcritical, and dcritical if these fields are null.

Constraint

Primary key

Column: ivid.

Foreign key

Column: acid. References table ACC (acid).
Column: backupiv. References table IV (ivid).
Column: cno. References table COOP (cno).
Columns: imname, site. References table IM (imname, site).
Column: parent. References table IV (ivid).
Column: site. References table MAIN.SITE (site).

Unique key

Columns: ivp, ivno, ivt, ivs.

Other indexes

Non-unique on columns: site, loc1, loc2, loc3, loc4.

Inventory identifier (ivid)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal inventory identifier. It serves as a link between the inventory table and other tables in the database.

Rules

Primary key. Unique sequence number. Cannot be updated.

Inventory prefix (ivp)

Characteristics

VARCHAR2(4), Required

Definition

The prefix part of the unique four part inventory identifier assigned by the maintenance site.

Example

CPYR
CItr
NSSL

Inventory number (ivno)

Characteristics

NUMBER(7), Required

Definition

The numeric part of the unique four part inventory identifier, assigned by the maintenance site.

Example

1234

Inventory suffix (ivs)

Characteristics

VARCHAR2(8), Optional

Definition

The suffix part of the unique four part inventory identifier assigned by the site. This suffix is used to identify a particular regeneration or repropagation sample.

Example

.002

Inventory type (ivt)

Characteristics

VARCHAR2(2), Required, Coded

Definition

The type part of the unique four part inventory identifier assigned by the maintenance site. It is the form of the inventory sample.

Rules

Standard codes. Uppercase.
On insert: if imname not null, copy from im table.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Inventory maintenance group name (imname)

Characteristics

VARCHAR2(20), Optional

Definition

The inventory maintenance group to which an inventory sample belongs.

Example

BAMBOO
Celery
NC7-setaria. csr
Perennial
S9-null
tangelo

Rules

Foreign key. Link to im table. Required if want to use debit function when shipping order items, or supply several fields with default values.

Site code (site)

Characteristics

VARCHAR2(8), Optional

Definition

The site responsible for the inventory.

Rules

Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

Distributable sample (distribute)

Characteristics

CHAR(1), Optional

Definition

A flag ('X') to indicate that the inventory sample is available for distribution. It is entered by the site. There can be more than one inventory sample for an accession available for distribution.

Rules

Value = X. User supplied and maintained.
More than one inventory can be flagged from an accession. If im. debit = Y and distribute = X, dform, dunits and dquant required.

First inventory location (loc1)

Characteristics

VARCHAR2(10), Optional

Definition

The first of four parts to identify the location of a particular inventory sample. All four fields apply to the same inventory sample.

Second inventory location (loc2)

Characteristics

VARCHAR2(10), Optional

Definition

The second of the four part location identifier for the inventory sample. All four fields apply to the same inventory sample.

Rules

Cannot have loc2 if loc1 is null.

Third inventory location (loc3)

Characteristics

VARCHAR2(10), Optional

Definition

The third of the four part location identifier for the inventory sample. All four fields apply to the same inventory sample.

Rules

Cannot have loc3 if loc2 is null.

Fourth inventory location (loc4)

Characteristics

VARCHAR2(10), Optional

Definition

The fourth of the four part location identifier for the inventory sample. All four fields apply to the same inventory sample.

Rules

Cannot have loc4 if loc3 is null.

Inventory quantity on hand (onhand)

Characteristics

NUMBER(9), Optional

Definition

The total amount of germplasm on hand for an inventory sample. The units of germplasm is contained in the Inventory Units (munits) field, and the type of germplasm is contained in the Inventory type (ivt) field.

Rules

Values >= 0.

If onhand < dcritical and iv.status = 'AVAIL', set iv.status = 'LOW'.

Maintenance units (munits)

Characteristics

CHAR(2), Optional, Coded

Definition

The units of germplasm by which inventory samples are maintained.

Rules

Conditional. Standard codes. Lowercase.

If onhand not null, munits required.

On insert or update: if null, and iv.imname not null, set iv.munits = im. munits.

Codes

Value	Definition	Site
ct	count	Std.
cu	cuttings	Std.
gm	gram	Std.
kc	count x 1000	Std.
kg	kilograms	Std.
mg	milligrams	Std.
ng	nanograms	Std.
pk	packet	Std.
ug	micrograms	Std.

Automatic deduction flag (debit)

Characteristics

CHAR(1), Optional

Definition

Code to show whether the on hand amount is debited when the order item for this sample is shipped.

Rules

Standard codes. Uppercase.

On insert or update: if debit null, set iv.debit = im.debit if im.name exists, else set iv.debit = N.

Codes

Value	Definition	Site
N	Inventory not deducted	Std.
Y	Inventory deducted	Std.

Code Comments

N	Inventory is not automatically deducted.
Y	Inventory is automatically deducted.

Distribution form (dform)

Characteristics

CHAR(2), Optional, Coded

Definition

The default form for distributions of this inventory sample. This value is copied from the im table on insert, but can be changed by the maintenance site. This field will provide the default value for oi.dform.

Rules

Standard codes. Uppercase.

On insert or update: if null, set iv.dform = im.dform if im.dform exists, else set iv.dform = iv.ivt.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.

MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Default distribution quantity (dquant)

Characteristics

NUMBER(9), Optional

Definition

The default distribution quantity for this sample. Site users can update this field to override the maintenance group default.

Rules

Values >= 0.

On insert: if null, set iv.dquant = im. dquant if im.dquant exists.

Distribution units (dunits)

Characteristics

CHAR(2), Optional, Coded

Definition

The default units of germplasm by which orders are filled for this group. For example, count, grams, kilograms.

Rules

Conditional. Standard codes. Lowercase.

If dquant not null, dunits required.

On insert: if null, copy from im table.

Codes

Value	Definition	Site
ct	count	Std.
cu	cuttings	Std.
gm	gram	Std.
kc	count x 1000	Std.
kg	kilograms	Std.
mg	milligrams	Std.
ng	nanograms	Std.
pk	packet	Std.
ug	micrograms	Std.

Critical quantity (dcritical)

Characteristics

NUMBER(9), Optional

Definition

The number of maintenance units (munits) of germplasm necessary for distribution. A number less than this critical distribution value shows that distributions are not allowed. This value is copied from the im table on insert, but can be changed by the maintenance site.

Rules

Values >= 0.
On insert or update: if null, set iv. dcritical = im.dcritical if iv.imname not null.

Critical replenishment quantity (rcritical)

Characteristics

NUMBER(9), Optional

Definition

The default number of maintenance units of germplasm necessary for replenishment. This value is copied from the im table, but can be changed by the maintenance site.

Rules

Values >= 0.
On insert or update: if null, set iv. rcritical = im.rcritical if iv.imname not null.

Inventory pathogen status (pstatus)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The pathogen status of the inventory sample.

Rules

Standard codes. Uppercase.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
FREE       Pathogen free                             Std.
INFECTED   Infected                                  Std.
TESTED     Being tested for pathogens                Std.
UNTESTED   Untested for pathogens                    Std.
```

Code Comments

FREE	All available tests have been performed and all results were negative.
INFECTED	Inventory sample tested positive for one or more pathogens.
TESTED	Results of tests so far are negative, but not all tests have been done yet.
UNTESTED	No pathogen tests have been performed.

Inventory status (status)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The status of an inventory sample in terms of viability and availability. One code shows the sample is available and all other codes show the sample is unavailable.

Rules

Site codes.

If DEBIT = Y, status = AVAIL, and onhand <= dcritical, then status set to LOW.

If DEBIT = Y, status = LOW and onhand > dcritical, status set to AVAIL.

Codes

Value	Definition	Site
01/		COT
????		NR6
ARCH	Archived inventory	W6
AVAIL	Available	Std.
Avai		DAV
BACK	In-Vitro backup plant	COR
BACKUP	all of the inventory sent to NSSL	W6
BULK	Bulked into a new lot with others	NC7
BULK	Large sample lots, 2-1000 times normal	W6
CHEC		DAV
CHECK	Check variety	NC7
CLOS	Accession discontinued	COR
CLOSE	Accession discontinued	COR
CLOSED	Accession discontinued	COR
COUNTLESS	Needs to be counted or weighted	W6
CR	Conditional Release	PGQO
CRYO		NSSL
CSR	Recent Crop Sci. Registration	Std.
CURATOR	Curator says unavailable	NC7
CURAT_ATTN	Requires curator attention	NC7
Cont		NR6
DEAD	Accession is dead or destroyed	PGQO
DEAD	Dead	NE9
DEAD	Dead	GEN
DEAD	Dead	INACTIVE
DEAD		COR
DEAD		DAV
DEAD		NA
DEL.		DAV
DESTROYED	Accession was destroyed	PGQO
DISCARD	Discard	NE9
DISCARD	Discard	GEN
DISCARD	Discarded	NC7
DISCARD		W6
DORMANT	Dormant lot	NC7
DUPE		SOY
DUPL		COR
DUPLICATE	Duplicate	GEN
DUPLICATE	Duplicate to another accession	NE9
DUPLICATE		W6

ERR		COR
ES	Plant has established	PGQO
EXHA	Seed exhausted when regenerating	W6
EXHA		S9
EXPERIMENT	Experimental lot	NC7
FLAW		S9
FSLR	First seed lot received. Not original!	NC7
GNST	Genetic Stock material	NSSL
HERE	Inventory material is on-site	PGQO
HOLD	hold inventory sample for futher clarifn	W6
ID		COR
ID?		COR
IDX		COR
IMMATURE	not available for distribution	NA
IN P		DAV
IN TESTING	Currently in quarantine testing	PGQO
INACTIVE	Accession/Inventory no longer available	PGQO
INACTIVE	Inactive lot	NC7
INVI		DAV
INVIABLE	Not viable	NC7
IPR	Accession has property rights	Std.
In P		DAV
In p		DAV
Infe		DAV
LOST		DAV
LOW	Low inventory	Std.
LOWGERM	Low germination	NC7
LOWGERM	Low germination	W6
LOWPOP	Low population	NC7
LOWPOP	Low population	W6
LOWQT	QT low, but iv.onhand above iv.dcritical	W6
Lost		DAV
MISL		DAV
MIX		SOY
MTA	Material Transfer Agreement needed	Std.
Misl		DAV
NA	No longer available	NE9
NA	Not available	W6
NA		GEN
NA		GSPI
NARCOTIC	Narcotic	Std.
NEEDSGERM	Needs germination test	NC7
NEW	Newly received. Not yet counted.	NC7
NEW	Recently received	PGQO
NEW		MIA
NEW		SOY
NO-ACC	Accession does not exist	Std.
NO-INV	Inventory does not exist	Std.
NOGERM	Did not germinate	W6
NOHARV	No harvest made for a number of reasons	NC7
NON-HARDY	Not cold hardy; partial or total dieback	NA
NONE	No lot present	NC7
NONE		SOY
NOPL		DAV
NOT	Not available but alive	DAV
NOT		NSSL
NOT VIABLE	No germination	NA

NOT-TRUE	Not True	INACTIVE
NOT-TRUE	Not true to type	NE9
NOT-TRUE		GEN
NP		GEN
NR		GEN
NT		GEN
NULL	Null	W6
NULL	Null	GEN
NULL	Null	GSPI
NULL		S9
OPENPOL	Open pollinated increase	W6
ORIG	Original lot received	W6
ORIG		S9
ORIG		GSPI
ORIGINAL	Original lot received	NC7
PARENT	parents of the seed received	W6
PASSPORT	Passport data incomplete	NC7
PAT	Patented material	COR
PATENT	Patented material	COR
PL		SOY
PLANTED	Pending. Between planting and STORE.	NC7
PLANTED	Planted for regeneration	W6
PLANTED		GSPI
POSS		DAV
PR	Provisional release	PGQO
PR-QUAR	Sample is on provisional release, NA	GEN
PREGERM	pregermination stage	NA
PROHIBITED		NA
PROP		COR
PROP		DAV
PROP		HILO
PURITY	Purity is in question	NC7
PVP		COT
PVP		S9
PVPO		NSGC
Poss		DAV
QUAR	Accession in quarantine	Std.
R	Released, see comment.	PGQO
RARE	Rare or Endangered	Std.
RECO		COR
REFERENCE	Reference lot	NC7
REGEN	Lot used for regeneration	NE9
REGEN	Lot used for regeneration	W6
REID	Review identification	NC7
RELEASED	Accession released from quarantine	PGQO
REL_UNCO	Uncoditional Release	PGQO
REMOVED	Removed	NE9
REMOVED	Removed	GEN
REMOVED	Removed from collection	INACTIVE
REOR		COR
REPLACED	Newer sampled replaced old one	W6
REPLACED		GSPI
RES		NSGC
REST		DAV
REST		S9
RO	Released other subclone	PGQO
RPL		SOY

RS97	Rootstock 1997	GEN
RS98	Rootstock 1998	GEN
SEED		DAV
SMAL	Plant too small to distribute cuttings	COR
SMALL	Plant too small to distribute cuttings	COR
STORE	Storage pending	NC7
Seed		DAV
THERAPY	Heat or cold therapy or sent to TC	PGQO
TRAN		DAV
TRAN		S9
TRAN		GEN
TRANSFERED	Transfered lot	NC7
TRANSFERED	Transfered lot	FLAX
TREATED	Treated chemically	NC7
TREATED	seed has been treated	W6
Tetr		DAV
Too		MIA
UNKN	Status unknown	W6
UNKN		DAV
UNSU		DAV
UR	Unconditional Release	PGQO
Unkn		DAV
Unsu		DAV
VARI		SOY
VIR		COR
VIR?		COR
WEAK	Deficient plant vigor	COR
WEAK	Weak	NE9
WEAK	Weak	INACTIVE
WEAK	Weak	GEN
WEED	Noxious weed	Std.
WEED		COR
WEED		NSGC
Weak	Deficient plant vigor	COR
Young	plants are too young to distribute	NA
d-r		GEN
dead		NA
dead		GEN
disc		GEN
dup		GEN
mix		NR6
newl		MIA
null		GEN
prop		COR
r-du		GEN
rem		GEN
rest		S9
sick		GEN
test		NE9
tran		S9
~r		COT

Code Comments

ARCH	Archived in storage for low and/or no usage

BACKUP	Grown only to send to NSSL, or sending all the seed to NSSL
BULK	Lot has no seed because seed has been bulked with other lots to form a bulked lot.
BULK	Example: the Medic's with 1/2 gallon to 15 gallons of seed
CHECK	Lot of accession normally used at site just as a check in plantings.
CURATOR	Lot is unavailable at curator's discretion. Reason may be stated in status comment.
CURAT_ATTN	This lot needs curator examination to determine proper status. Seed storage, order processing, and GRIN data processing will have difficulty working with this lot until the status is determined.
DISCARD	See Phil Forsline
DISCARD	Lot is documented as being completely discarded.
DORMANT	Lot which is currently unavailable because it is excessively dormant at this time.
EXPERIMENT	Lot to be used for experimental uses.
FSLR	Not Available due to low amount received. This should have a first lot igmrcd.
GNST	Not Available
INACTIVE	Lot which is attached to an INACTIVE accession but may not be DEAD. Also, lots of accessions which are to be inactivated in the near future would have this designation.
INVIABLE	Unable to germinate any seeds
LOWGERM	Unavailable because germination is low.
LOWGERM	Unavailable because germination is low
LOWPOP	Unavailable because the population size sampled was too small.
LOWPOP	Unavailable
NEEDSGERM	Unavailable until germination test performed.
NOHARV	Harvest was not made for some reason such as a failure to germinate, no seed set, sterile plants, plants died due to some reason, etc
NONE	Lot is not in collection for some undocumented reason.
OPENPOL	unavailable
ORIGINAL	Seed which was collected or if unknown assumed to be collected.
PARENT	Use when we do not get Original seed, but want to track the generation from collected seed
PASSPORT	No available until passport data has been reviewed by curator.
PR-QUAR	"Q" numbered accession
PURITY	Genetic purity is in question. Either lot is a mixture of seed types or cross pollination may have occurred.
REFERENCE	Lot used for comparison to determine purity of future regenerations or to be used if purity compromised.
REID	Inventory needs taxonomic reidentification or identifier review before being made available.
REPLACED	The regenerated sample replaces the old sample. Old sample is historic.

RO	Released other subclone as distributable sample
RS97	Phil Forsline
RS98	Phil Forsline
STORE	Processing complete and lot ready for final storage in collection.
TRANSFERRED	Lot transfered to another NPGS site. Also lots designated to be transfered in the near future. Order items will be the verification of whether the lot has been transfered.
TRANSFERRED	Lot transfered to another NPGS site. Also lots designated to be transfered in the near future. Order items will be the verification of whether the lot has been transfered.
TREATED	Seed treated making the lot not available in some situations.

Inventory status comment (statcmt)

Characteristics

VARCHAR2(60), Optional

Definition

Comments on the status of the inventory sample.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this inventory.

Rules

Foreign key. Link to acc table.

Parental inventory identifier (parent)

Characteristics

NUMBER(8), Optional

Definition

The internal inventory identifier to show which inventory sample was used to generate the current inventory.

Rules

Foreign key. Link to iv table.

Cooperator number (cno)

Characteristics

NUMBER(8), Optional

Definition

The internal cooperator identifier to indicate the person or organization who supplied the sample.

Rules

Foreign key. Link to coop table.

Backup sample number (backupiv)

Characteristics

NUMBER(8), Optional

Definition

The internal inventory identifier of the sample that is a back-up sample at a secondary site. Seed accessions are typically backed up at the National Seed Storage Laboratory. Clonal accessions are backed up at another clonal site or at NSSL as budwood, tissue culture, pollen, etc.

Rules

Foreign key. Link to iv table.

Inventory comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

Site comment about the inventory sample.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Inventory action table (IACT)

Definition

Table of actions performed on the inventory sample while it is at a repository. It includes initial receipt of the material, verification, transfer, back-up, regeneration, repackaging, etc. It is not meant as a replacement for tracking movement of germplasm between sites or from sites but may be used to hold information about an event before results are obtained, such as a germination test or pathogen test.

Rules

A site can add, update or delete iact records for their site only. DBMU can add, update or delete iact records for another site.

Constraint

Primary key

Column: iactno.

Foreign key

Column: cno. References table COOP (cno).
Column: eno. References table EVAL (eno).
Column: ivid. References table IV (ivid).

Inventory action number (iactno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique sequence number for the inventory action.

Rules

Primary key. Unique sequence number. Cannot be updated.

Inventory action code (action)

Characteristics

VARCHAR2(10), Required, Coded

Definition

The type of action taken on the inventory sample.

Rules

Site codes. Site maintained. Uppercase.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
AMESRENUMB Lot renumbered going from site id to PI  NC7
BACKUP     Backed up                                 Std.
BALANCESAM Number sampled in a balanced fashion     NC7
```

BULKED	Sample bulked with another to new lot	NC7
BULKSAMPLE	Number sampled unequally	NC7
COLD-TREAT	Cold treated	Std.
CR	Conditional release	PGQO
CREATED	Created lot from bulk of other lots	NC7
CTREVIEWED	Count reviewed	NC7
CUT-BACK	Vegetation trimmed	NC7
DEAD	Accession is dead or destroyed	PGQO
DESTROYED	Accession was destroyed	PGQO
DESTROYED	Destroyed	NC7
DETREATED	Treatment removed	NC7
DISCARDED	Discarded all or part of harvest	NC7
DISCARDED	Discarded sample	NSSL
DISCARDED	Discarded the sample	W6
DISTRIBUTE	Distributed to curator	NSSL
DIVIDED	Cloned by division	NC7
DUPERENUMB	Lot was renumbered due to duplication	NC7
EMBRYO	Embryo rescue	S9
ES	Established	PGQO
ESTABLISH	Established	Std.
FLOWERED	Inventory Flowered	NC7
GRAFTED	Grafted	Std.
GRAMS	Grams on hand on this date	W6
GRAMS	Grams on hand on this date	GSPI
GROWING	Growing at present time	NC7
GROWING-TC	In tissue culture. Need more for LN2	NSSL
HARVEST-BG	Beginning of harvest	W6
HARVEST-ED	End of harvest	W6
HARVESTED	Harvested	Std.
HEAT-TREAT	Heat treated	Std.
IN TESTING	Currently in pathogen testing	PGQO
INACTIVATD	Date Accession was deactivated	NC7
INACTIVATD	Date Accession was made Inactive	W6
INACTIVE	Accession not available, see comment.	PGQO
INCREASED	Increased	Std.
INNOCULATE	Subclone innoculated (grafted)	PGQO
INSPECTED	Inspected	Std.
ISOLATED	Isolated from non-accession pollen	NC7
MINUS20	Date placed in minus 20 degrees Cent.	W6
MINUS20	Date placed in minus 20 degrees Cent.	NC7
MINUS80	Date placed in minus 80 degrees Cent.	W6
MOVED	Inventory moved to new location	NC7
NEW	Recently received	PGQO
ONHAND	Inventory seed counts on this date	W6
ONHAND	Inventory seed counts on this date	GSPI
OVERWINTER	Plants maintained more than one year	W6
PATHOGENS	Pathogens found in the IACT.IFORM	W6
PHOTOGRAPH	Photographed	NC7
PHOTOSCAN	Previous photo scanned	NC7
PLANTED	Planted	Std.
POLLINATED	Units pollinated	NC7
POPHARVEST	Population size harvested	NC7
POPHARVEST	Population size harvested for that year	W6
POTTED	Potted	Std.
PR	Provisional release	PGQO
PULLDISCAR	Pulled seed for planting discarded.	NC7
PULLPLANT	Pulled for planting	NC7

```
QUAR       Currently in quarantine                  Std.
R          Released.  See comment.                  PGQO
REACTIVATD Date Accession reactivated               NC7
REACTIVATD Date Accession reactivated               W6
RECEIVEBPS Date received of previous NPGS site      W6
RECEIVEBPS Receive date of a previous NPGS site     NC7
RECEIVED   Material received                        PGQO
RECEIVED   Received                                 Std.
REGROW     Sent out for regrow                      NSSL
RELEASED   Released for distribution                Std.
RELINKED   Inventory relinked to another accession  NSSL
REL_UNCO   Unconditional release                    PGQO
RENUMBERED Lot number changed                       NC7
REPLACED   Replaced with a newer sample             W6
RETURNED   Returned to PVPO                         NSSL
RO         Released other subclone of accession     PGQO
ROGUED     Rogued inventory.                        NC7
SCANNED    Image obtained with scanner              NC7
SITEREC    Receive date of another site             W6
STANDCOUNT Count of plants in regeneration plot     NC7
STORE      Cleared for Seed Storage                 NC7
STORED     Stored by storage or curatorial staff    NC7
TESTED     Tested                                   Std.
TESTING    Material currently being pathogen tested PGQO
THERAPY    Send to therapy                          PGQO
TRANSFERED Transfered to NPGS control               NSSL
TRANSFERIN Transferred to our station               W6
TRANSPLANT Transplanted                             Std.
TREATED    Treated                                  Std.
UNISOLATED Removed from isolation                   NC7
UR         Unconditional Release                    PGQO
VERIFIED   Verified                                 Std.
VOUCHERED  Vouchered                                Std.
YIELD      Grams produced from harvest              W6
YIELD      Grams produced from harvest              GSPI
```

Code Comments

BACKUP	Backed up the inventory sample.
BALANCESAM	Refers to the number of individuals which were sampled evenly for the next regeneration.
BULKED	Sample was bulked either completely or partially to form a new lot.
BULKSAMPLE	Refers to the number of individuals whose seed was bulked in unequal amounts during final storage.
COLD-TREAT	Cold treated the inventory sample.
CR	Conditionally released, some tests still needed.
CREATED	This lot was created by bulking two or more other lots. This action can be used more than once when the creation process can be duplicated.
CTREVIEWED	Date and amount recorded for most recent recalculation of amount on hand

CUT-BACK	Vegetation trimmed for ratooning or another purpuse.
DESTROYED	Destroyed accidentally or on purpose before harvest.
DETREATED	Sample treatment modified or removed.
DISCARDED	This documents the date of a discard.
DISCARDED	Discarded the sample because another sample was open pollinated, low germ and etc.
DISCARDED	Discarded sample per instructions from PVPO.
DISTRIBUTE	Part of sample has been transfered to curator.
DUPERENUMB	This lot was previously attached to another accession number which was found to be a duplicate of the current accession.
EMBRYO	Embryo rescue attempt
ES	Plant has been established
ESTABLISH	Established the inventory sample.
FLOWERED	Refers to the date of flowering. Comment indicates if male or female if applicable.
GRAFTED	Grafted the inventory sample.
GRAMS	Grams times 100 seed weight = seed number
GROWING	Vegetative material currently growing for vegetative maintenance and/or distribution. Perennial material whose viable condition is verified on date given. This code can also be used on seed lots harvested from perennial material.
HARVEST-BG	Usually used when a beginning and End of harvest is enterred
HARVEST-ED	Harvested the last of a accessions
HARVESTED	Harvested the inventory sample.
HEAT-TREAT	Heat treated the inventory sample.
INSPECTED	Inspected the inventory sample.
ISOLATED	Refers to date inventory was placed in isolation. Comment can be used to indicate method.
MOVED	Inventory moved to another location.
ONHAND	100 seed weight X grams & etc.
ONHAND	100 seed weight
OVERWINTER	Usually plants overwintered to be harvested the second year
PHOTOGRAPH	Photograph was taken of the lot or plants producing the lot.
PHOTOSCAN	Photo scanned for computer image database
PLANTED	Planted the inventory sample.
POLLINATED	Number of ears, flowers, plants, etc. pollinated
POPHARVEST	Number of individuals genetically contributing to harvest
POPHARVEST	When years of seed are mixed POPHARVEST is only that year(IVS)
POTTED	Potted the inventory sample.
PR	Provisionally released
PULLDISCAR	Seed pulled for planting is discarded.
PULLPLANT	Seed pulled and packaged for planting in the future
REACTIVATD	This lot was reactivated when the accession was removed from an inactive state.

REACTIVATD	Inactive was made active
RECEIVEBPS	Often this is linked via backupiv
RECEIVED	Received the inventory sample.
REGROW	Sample sent out for regrow.
RELEASED	This is release of the inventory sample not the accession.
RENUMBERED	Lot number changed to reflect accession number change.
REPLACED	Newly released lot sample replaced this lot sample
RETURNED	Sample returned to PVPO per their instructions.
RO	Released other subclone of accession. The release status may be shown for a particular subclone, but another subclone was actually used as the distributable sample.
ROGUED	Atypical individuals were removed from the inventory lot.
SCANNED	Computer image of lot or plants producing the lot using a computer scanner
SITEREC	Date received usually of the site who tranferred out the inventory
STANDCOUNT	The number of plants counted at some time during the regeneration season.
STORE	Cleared by Curator staff for seed storage staff.
STORED	Lot has been handled so that it can be left alone if it is not a distributable lot, or it can be distributed.
TESTED	Tested the inventory sample.
THERAPY	Heat or cold treatment or sent to tissue culture
TRANSFERRED	Sample transfered to NPGS inventory per PVPO instructions.
TRANSFERIN	Transferred to our site, was already part of NPGS
TRANSPLANT	Transplanted the inventory sample.
TREATED	Treated the inventory sample.
UNISOLATED	Refers to date inventory was removed from isolation. Comment can be used to indicate method.
UR	Testing complete, released unconditionally
VERIFIED	Verified the inventory sample.
VOUCHERED	Vouchered the inventory sample.
YIELD	Yield in grams from harvest
YIELD	Yield in grams

Date occurred (occurred)

Characteristics

DATE, Optional

Definition

The date a particular inventory action took place. The precision of the date may be qualified with iact. datefmt.

Example

01-JAN-93
01/25/1994
01/1994
1994

Rules

Must be a valid date since 1896.

Date format (datefmt)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Format of the action date as it was inserted.

Rules

Conditional. Standard codes. Uppercase.
On insert: if occurred not null and datefmt null, set datefmt = MM/DD/YYYY.
On update: if null, do not update datefmt.

Codes

Value	Definition	Site
MM/DD/YYYY	Complete date	Std.
MM/YYYY	Year and month only	Std.
YYYY	Year only	Std.

Inventory action quanity (quant)

Characteristics

NUMBER(), Optional

Definition

The amount of germplasm involved in a particular inventory action. The units of germplasm is contained in the units field, and the type of germplasm is contained in the iform field.

Inventory action units (units)

Characteristics

CHAR(2), Optional, Coded

Definition

The units of germplasm associated with the inventory action.

Rules

Conditional. Standard codes. Lowercase.
On insert: if quant not null, units required.

Codes

Value	Definition	Site
ct	count	Std.
cu	cuttings	Std.
gm	gram	Std.

kc	count x 1000	Std.
kg	kilograms	Std.
mg	milligrams	Std.
ng	nanograms	Std.
pk	packet	Std.
ug	micrograms	Std.

Inventory action form (iform)

Characteristics

CHAR(2), Optional, Coded

Definition

The form or type of germplasm involved in the inventory action.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Inventory identifier (ivid)

Characteristics

NUMBER(8), Required

Definition

The internal inventory identifier for this inventory action.

Rules

Foreign key. Link to iv table.
If iv record deleted, iact record automatically deleted.

Cooperator number (cno)

Characteristics

NUMBER(8), Optional

Definition

The internal cooperator identifier involved in the action.

Rules

Foreign key. Link to coop table.

Evaluation number (eno)

Characteristics

NUMBER(8), Optional

Definition

The internal evaluation identifier to show what evaluation or procedure was used for the inventory action.

Rules

Foreign key. Link to eval table.

General comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the inventory action, entered by the site.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Inventory group table (IG)

Definition
Table of groups of inventory samples, other than Maintenance Groups. These alternate groups are determined by the maintenance sites. An iventory sample can be placed in more than one Inventory Group.
Rules
A site can add, update or delete ig records for only their iv records. DBMU can add, update or delete ig records for another site.
Constraint
Primary key
Columns: igname, site.
Foreign key
Column: site. References table MAIN.SITE (site).

Inventory group name (igname)

Characteristics
VARCHAR2(20), Required
Definition
The name that identifies the inventory group for this sample. This group name is in addition to the maintenance group name.
Example
Chinese Sorghum
Foreign Varieties
ORNAMENTAL
Zea.Bulk
Rules
Unique within a site. User supplied and maintained.

Site code (site)

Characteristics

VARCHAR2(8), Required

Definition

The site that owns the inventory in the group.

Rules

Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

General comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the inventory group.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Inventory group member table (IGM)

Definition

Table of the inventory identifiers that are members of an inventory group.

Rules

A site must be responsible for both ith ig and iv records to add, update or delete igm records. DBMU can add, update or delete igm records for another site.

Constraint

Primary key

Columns: ivid, igname, site.

Foreign key

Columns: igname, site. References table IG (igname, site).

Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics

NUMBER(8), Required

Definition

The internal inventory identifier for an inventory sample that is being placed in the group.

Rules

Foreign key. Link to iv table.

If iv record deleted, all memberships to groups deleted.

Inventory group query name (igname)

Characteristics

VARCHAR2(20), Required

Definition

A short name used for the inventory group.

Rules

If ig record deleted, all igm records in the group will be automatically deleted.

Site code (site)

Characteristics

VARCHAR2(8), Required

Definition

The site responsible for the inventory group.

Rules

Foreign key. Link to site table. Uppercase.

On insert: if null or not DBMU, set site = userid site.

General comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the membership of a particular inventory sample to an inventory group.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Inventory maintenance group table (IM)

Definition
Table of principle inventory groups at a repository. These groups may be based on taxonomy, storage facilities, or other scheme determined by the maintenance site. An inventory sample can be placed in only one group. The maintenance group determines how inventory samples are processed, including the deduction of distribution amounts and the setting of critical distribution and replenishment levels.
Rules
A site can add, update or delete im records for their site only. DBMU can add, update or delete im records for another site.
Constraint
Primary key
Columns: imname, site.

Foreign key

Column: site. References table MAIN.SITE (site).

Inventory maintenance group name (imname)

Characteristics

VARCHAR2(20), Required

Definition

A short name used to identify the group of inventory samples for maintenance purposes.

Example

BAMBOO
Celery
NC7-setaria. csr
Perennial
S9-null
tangelo

Rules

User supplied and maintained. Can be updated unless referenced in other tables.

Site code (site)

Characteristics

VARCHAR2(8), Required

Definition

The site responsible for the maintenance group.

Rules

Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

Default inventory form (ivt)

Characteristics

CHAR(2), Required, Coded

Definition

The default form of the inventory for this group.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.

GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Default maintenance units (munits)

Characteristics

CHAR(2), Optional, Coded

Definition

The units of germplasm by which inventory samples are maintained.

Rules

Standard codes. Lowercase.

Codes

Value	Definition	Site
ct	count	Std.
cu	cuttings	Std.
gm	gram	Std.
kc	count x 1000	Std.
kg	kilograms	Std.
mg	milligrams	Std.
ng	nanograms	Std.
pk	packet	Std.
ug	micrograms	Std.

Default deduction flag (debit)

Characteristics

CHAR(1), Required, Coded

Definition

Code to indicate the default value for automatic deduction from the inventory quantity on hand when a sample is distributed. This is carried down to the iv record when it is created and may be changed on a per sample basis.

Rules

Standard codes. Uppercase.
If debit = Y, dquant and dcritical required.

Codes

Value	Definition	Site
N	Inventory not deducted	Std.
Y	Inventory deducted	Std.

Code Comments

N	Inventory is not automatically deducted.
Y	Inventory is automatically deducted.

Default distribution form (dform)

Characteristics

CHAR(2), Required, Coded

Definition

The default form for distributions for the inventory maintenance group.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Default shipment quantity (dquant)

Characteristics

NUMBER(9), Optional

Definition

The default number of units of germplasm normally distributed for this group.

Rules

Values > 0.

Default distribution units (dunits)

Characteristics

CHAR(2), Optional, Coded

Definition

The default units of germplasm by which orders are filled for this group.

Rules

Conditional. Standard codes. Lowercase.
If dquant not null, dunits required.

Codes

Value	Definition	Site
ct	count	Std.
cu	cuttings	Std.
gm	gram	Std.
kc	count x 1000	Std.
kg	kilograms	Std.
mg	milligrams	Std.
ng	nanograms	Std.
pk	packet	Std.
ug	micrograms	Std.

Default critical distribution quantity (dcritical)

Characteristics

NUMBER(9), Optional

Definition

The default number of maintenance units (munits) of germplasm necessary for distribution. A number less than this critical distribution value shows that distributions should not be allowed.

Rules

Values > 0.

Default critical replenishment quantity (rcritical)

Characteristics

NUMBER(9), Optional

Definition

The default number of maintenance units of germplasm necessary for replenishment. A number less than this critical replenishment value shows the need to increase the inventory sample.

Rules

Values > 0.

Regeneration/pollination (regen)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Regeneration or pollination method used for this group.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
GRAFT	Grafted	Std.
HAND	Hand pollinated	Std.
INSECT	Insect pollinated	Std.
SELF	Self pollinated	Std.

Number of pathogen tests (ptests)

Characteristics

NUMBER(3), Optional

Definition

The standard number of pathogen tests needed for inventory in the maintenance group.

Rules

Values > 0.

General comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments to describe the inventory maintenance group.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Pathogen tests table (PT)

Definition
Table of the results of pathogen tests for an inventory sample. These results can be either individual test results or summary results from a group of tests.
Rules
A site can add, update or delete pt records for their site only. DBMU can add, update or delete pt records for another site.
Constraint
Primary key
Columns: ivid, pttype, ptcode.
Foreign key
Column: ivid. References table IV (ivid).
Other indexes
Non-unique on columns: pttype, ptcode.

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier used for this pathogen test.
Rules
Foreign key. Link to iv table.
If iv record deleted, pt records automatically deleted.

Test type (pttype)

Characteristics

VARCHAR2(10), Required, Coded

Definition

The type of pathogen test performed on the inventory sample.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
BIOASSAY	Bioassay	Std.
CULTURE	Culture assay on semi-selective medium	PGQO
ELISA	Elisa test	Std.
ELISA97	Elisa tests conducted in 1997	S9
ELISA98	Elisa tests conducted in 1998	S9
ELISA99	Elisa tests conducted in 1999	S9
ELISAFLD98	Elisa tests on 1998 field samples	S9
EM	Electron microscope (leaf dips)	PGQO
EXTRA	Extra tests which may be required	PGQO
FIELD	Field Graft Tests	PGQO
FIELD_OBS	Field Observation	NC7
GREENHOUSE	Greenhouse Graft Tests	PGQO
HERBACEOUS	Herbaceous tests	Std.
MICRO_EXAM	Material is viewed under microscope.	NC7
PLATE_TEST	Plated on growth promoting media	NC7
PSTV	Potato Spindle Tuber Viroid	PGQO
SETOSA	Sweet Potato Greenhouse Setosa Test	PGQO
VISUAL	Visual Inspection	PGQO
VISUAL	Visual Inspection	W6
WHFLY	Sweet Potato Greenhouse White Fly Test	PGQO

Code Comments

ELISAFLD98	Samples taken from 1998 field planting
FIELD_OBS	Field Observation made by trained pathologist
MICRO_EXAM	Material is examined under a microsope. Materials examined may be concentrated and stained to enhance examination.
VISUAL	Visual inspection, Parents were Elisa tested

Pathogen test code (ptcode)

Characteristics

VARCHAR2(10), Required, Coded

Definition

Codes for the pathogen, indicator, or groups of pathogens or indicators being tested. These codes are assigned by the maintenance site.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
ACERNE1	Greenhouse test for Acer ne. rep. 1	PGQO
ACERNE2	Greenhouse test for Acer ne. rep. 2	PGQO
ACERSP1	Greenhouse test for Acer sp. rep. 1	PGQO
ACERSP2	Greenhouse test for Acer sp. rep. 2	PGQO
ACLV1	Apple chlorotic ringspot virus rep. 1	PGQO
ACLV2	Apple chlorotic ringspot virus rep. 2	PGQO
AHLV	American Hop Latent Carlavirus	COR
ALBA1	Alba. greenhouse test rep. 1	PGQO
ALBA2	Alba. greenhouse test rep. 2	PGQO
ALP	Alpine strawberry seedling	COR
AMELON1	Amelon. greenhouse test rep. 1	PGQO
AMELON2	Amelon. greenhouse test rep. 2	PGQO
AMERIC	Field test for Americ.	PGQO
AMOS	Amos Black black currant, graft inocula	COR
AMOS	Amos black currant greenhouse test	PGQO
AMOS1	Amos greenhouse test rep. 1	PGQO
AMOS2	Amos greenhouse test rep. 2	PGQO
AMV1	Elisa test for AMV rep. 1 (Elisa)	PGQO
AMV2	Elisa test for AMV rep. 2 (Elisa)	PGQO
APLPV		PGQO
APMV	Apple Mosaic Ilarvirus	COR
APMV1	APMV rep. 1 (Elisa)	PGQO
APMV2	APMV rep. 2 (Elisa)	PGQO
ARABIS	Arabis Mosaic Nepovirus	COR
ARMV1	Arabis mosaic virus rep. 1 (Elisa)	PGQO
ARMV2	Arabis mosaic virus rep. 2 (Elisa)	PGQO
ASGV	Apple Stem Grooving Capillovirus	COR
ASSVd	Apple Scar Skin Viroid	COR
B13	P. communis selection B-13	COR
BALDWIN	Baldwin black currant	COR
BALDWN	Baldwin greenhouse test	PGQO
BART	Bartlett field test	PGQO
BBCARLA	Blueberry Scorch Carlavirus	COR
BBILAR	Blueberry Shock Ilarvirus	COR
BBLMV	Blueberry Leaf Mottle Nepovirus	COR
BBRRSV	Blueberry Red Ringspot Caulimovirus	COR
BBSSV	Blueberry Shoestring Virus	COR
BCDATE	BC	PGQO
BCMV	Bean Common Mosaic Virus	W6
BCRES	BC	PGQO
BHARDY	Beurre Hardy field test	PGQO
BHDY	Beurre Hardy	PGQO
BHRES	Beurre Hardy	PGQO
BING	BING cherry field test	PGQO
BIO	Bioassay test	PGQO
BOSC	Beurre Bosc field test	PGQO
BOSC	P. communis 'Bosc', graft inoculation	COR
BSMVFREE	Seed is free from BSMV.	NSGC
BURR1	Rosa multiflora 'Burr' test rep. 1	PGQO
BURR2	Rosa multiflora 'Burr' test rep. 2	PGQO
C71	C 7/1 field test (quince)	PGQO
CAN/96		PGQO
CAN/97		PGQO

CAN/98		PGQO
CAN/99		PGQO
CLRV	Cherry Leafroll Nepovirus	COR
CMS	Elisa test for clavibacter (potato)	PGQO
CORN_BLSPT	Bacterial leaf spot -Xanthomonas maydis	NC7
CORN_LWILT	Late wilt -Cephalosporium maydis Samra,S	NC7
CORN_NCLS	Cochliobolus carbonum R.R. Nelson	NC7
CORN_SCLB	Cochliobolus heterostrophus(Drechs.)Drec	NC7
CORN_SLSPO	Stenocarpella macrospora(Earle) Sutton	NC7
CQ	Chenopodium quinoa	COR
CUC	Cucumber, sap inoculation in glasshouse	COR
CornS_Tran	Zea pathogens possibly seed transmitted	NC7
DIPLOD_MAY	Diplodia maydis (Berk.) Sacc.	NC7
DMILD_BRST	Sclerophthora rayssiae var. zeae	NC7
DMILD_CRAZ	Sclerophthora macrospora (Sacc.)Thirumal	NC7
DMILD_JAVA	Peronosclerospora maydis (Racib.) C.G.Sh	NC7
DMILD_LFSP	Peronosclerospora miscanthi (T. Miyake)	NC7
DMILD_PHIL	Peronosclerospora philippinensis (Weston	NC7
DMILD_SORG	Peronosclerospora sorghi (Weston and Up.	NC7
DMILD_SPON	Peronosclerospora spontanea (Weston) C.G	NC7
DMILD_SUGC	Peronosclerospora sacchari (T. Miyake) C	NC7
ECV-E	Elderberry Carlavirus - European Isolate	COR
ECV-NA	Elderberry Carlavirus - N.American Isola	COR
ELBE	Elberta field test	PGQO
ELISA	Elisa serology test	PGQO
ELISA1	Elisa serology test rep. 1	PGQO
ELISA2	Elisa serology test rep. 2	PGQO
ELISA3	Elisa serology test rep. 3	PGQO
ELV	Elderberry Latent Virus	COR
EM	Electron microscope	PGQO
EM1	Electron microscope rep. 1	PGQO
EM2	Electron microscope rep. 2	PGQO
EUROPA1	Greenhouse test for Europa. rep. 1	PGQO
EUROPA2	Greenhouse test for Europa. rep. 2	PGQO
EXTRA1	Extra test 1 which may be required	PGQO
EXTRA2	Extra test 2 which may be required	PGQO
FC	Fragaria chiloensis(multiplier disease)	COR
FCIV	Fragaria chiloensis Ilarvirus	COR
FruitObs	Fruit symptoms observed on accession	COR
GD97	Golden Delicious 1997	PGQO
GD98	Golden Delicious 1998	PGQO
GF3051	GF305 greenhouse test rep. 1	PGQO
GF3052	GF305 greenhouse test rep. 2	PGQO
GF3053	GF305 greenhouse test rep. 3	PGQO
GF3054	GF305 greenhouse test rep. 4	PGQO
GLABRA	Field test for Glabra.	PGQO
GOLDEL	Golden delicious field test	PGQO
GOSSS_WILT	Clavibacter michiganensis subsp. nebrask	NC7
GRAV	Gravenstein indicator, greenhouse	PGQO
GRAV97	Gravenstein 1997	PGQO
GRAV98	Gravenstein 1998	PGQO
HEADSMUT	Sphacelotheca reiliana (Kuhn) Clint.	NC7
HERB	Herbaceous test	PGQO
HERB1	Herbaceous test rep. 1	PGQO
HERB2	Herbaceous test rep. 2	PGQO
HERB3	Herbaceous test rep. 3	PGQO
HIPPO1	Greenhouse test for Hippo. rep. 1	PGQO

HIPPO2	Greenhouse test for Hippo. rep. 2	PGQO
HLV	Hop Latent Carlavirus	COR
HMV	Hop Mosaic Nepovirus	COR
HN39	P. pyrifolia selection HN39	COR
HORSETOOTH	Claviceps gigantea Fuentes, et al.	NC7
IDAEUS1	Idaesu greenhouse test rep. 1	PGQO
IDAEUS2	Idaesu greenhouse test rep. 2	PGQO
INDICA1	Indica. greenhouse test rep. 1	PGQO
INDICA2	Indica. greenhouse test rep. 2	PGQO
ISET	Setosa	PGQO
ISET-3PL	Setosa	PGQO
ISETrd	Setosa	PGQO
ITPRUN	Italian prune field test	PGQO
JA	P. communis 'Jules d'Airolles'	COR
JY	June Yellows genetic defect	COR
KWANZ1	Kwanzan greenhouse test rep. 1	PGQO
KWANZ2	Kwanzan greenhouse test rep. 2	PGQO
KWANZ3	Kwanzan greenhouse test rep. 3	PGQO
LA62	LA 62 field test	PGQO
LA62	P. communis selection LA-62	COR
LEAFDP	EM Leaf dip	PGQO
LEAFDP1	EM Leaf dip rep 1.	PGQO
LEAFDP2	EM Leaf dip rep 2.	PGQO
LORDLB	Lord lambourne field test	PGQO
LS1	Result of leaf scald sero. test rep. 1	PGQO
LS2	Result of leaf scald sero. test rep. 2	PGQO
LS3	Result of leaf scald sero. test rep. 3	PGQO
LSC	Result of culture assay rep. 1	PGQO
LSC1	Result of culture assay rep. 1	PGQO
LSC2	Result of culture assay rep. 2	PGQO
LSC3	Result of culture assay rep. 3	PGQO
LUIZ	Luizet field test	PGQO
MADAME1	Madame butterfly greenhouse test rep. 1	PGQO
MADAME2	Madame butterfly greenhouse test rep. 2	PGQO
ML	Malling Landmark red raspberry	COR
MLO	Mycoplasma-like organisms(Phytoplasmas)	COR
MM	Malus micromalus	COR
MOSAIC	Virus-like mosaic symptoms	COR
MUN	R. occidentalis 'Munger' sdlgs	COR
MVB	Mint Veinbanding Virus	COR
NG	Norfolk Giant red raspberry	COR
NOUV	Nouveau poiteau	PGQO
NP	P. communis 'Nouveau Poiteau'	COR
NPOIT	Nouveau poiteau field test	PGQO
NPOIT1	Nouveau poiteau greenhouse test rep. 1	PGQO
NPOIT2	Nouveau poiteau greenhouse test rep. 2	PGQO
NVRES	Nouveau poiteau	Std.
PBCVd	Pear Blister Canker Viroid	COR
PC	P. communis 'Passe Crassane'	COR
PCR	Molecular probe	PGQO
PCR1	Molecular probe test 1	PGQO
PCR2	Molecular probe test 2	PGQO
PD	Pear Decline Phytoplasma	COR
PDV1	PDV rep. 1 (Elisa)	PGQO
PDV2	PDV rep. 2 (Elisa)	PGQO
PEERL	Peerless field test	PGQO
PHYBUD	PCR	PGQO

PHYLF	PCR	PGQO
PHYRES	Phytoplasma	PGQO
PLMVD		PGQO
PMV	Peanut Mottle Virus	S9
PNRSV	Prunus Necrotic Ringspot Ilarvirus	COR
PNRSV	Prunus nerotic ringspot virus	PGQO
PNRSV1	PNRSV rep. 1 (Elisa)	PGQO
PNRSV2	PNRSV rep. 2 (Elisa)	PGQO
POZA	Pozegaca field test	PGQO
PPV1	PPV rep. 1 (Elisa)	PGQO
PPV2	PPV rep. 2 (Elisa)	PGQO
PPV3	PPV rep. 3 (Elisa)	PGQO
PPV4	PPV rep. 4 (Elisa)	PGQO
PRMV	Peach Rosette Mosaic Nepovirus	COR
PSTV	Potato Spindle Tuber Viroid	NR6
PSTV1	PSTV rep. 1	PGQO
PSTV2	PSTV rep. 2	PGQO
PSTV3	PSTV rep. 3	PGQO
PSbMV	Pea Seedborn Mosaic Virus	W6
PSbMV	Pea Seedborn Mosaic Virus	PGQO
PStV	Peanut Stripe Virus	S9
PV	Pyronia veitchii	COR
PsbMV	Pea seedborn Mosaic Virus	PGQO
QELIZA1	Queen Elizabeth greenhouse test rep. 1	PGQO
QELIZA2	Queen Elizabeth greenhouse test rep. 2	PGQO
RAD	Radiant sparkle, greenhouse	PGQO
RADRES	Radiant Sparkle	PGQO
RBDV	Raspberry Bushy Dwarf Virus	COR
RBDV1	RBDV rep. 1 (Elisa)	PGQO
RBDV2	RBDV rep. 2 (Elisa)	PGQO
RD98	Red Delicious 1998	PGQO
REDEL	Red Delicious indicator, field	PGQO
RING	Virus-like ringpattern symptoms	COR
RRSV	Quarantine small fruit test	PGQO
RSD1	Result of ratoon stunt sero. test rep. 1	PGQO
RSD2	Result of ratoon stunt sero. test rep. 2	PGQO
RSD3	Result of ratoon stunt sero. test rep. 3	PGQO
RUBOCC1	RUBOCC. greenhouse test rep. 1	PGQO
RUBOCC2	RUBOCC. greenhouse test rep. 2	PGQO
RUSRES	Russian	PGQO
RUSSIAN	Malus sp. 'Russian'	COR
SAM	SAM cherry field test	PGQO
SCRAB	Sugar crab, greenhouse	PGQO
SECUND1	Secund. greenhouse test rep. 1	PGQO
SECUND2	Secund. greenhouse test rep. 2	PGQO
SEROL1	Serology test rep. 1	PGQO
SEROL2	Serology test rep. 2	PGQO
SEROL3	Serology test rep. 3	PGQO
SETOSA1	Setosa greenhouse test rep. 1	PGQO
SETOSA2	Setosa greenhouse test rep. 2	PGQO
SETOSA3	Setosa greenhouse test rep. 3	PGQO
SETOSA4	Setosa greenhouse test rep. 4	PGQO
SGRES	Virginia Crab	PGQO
SGVRES	Virginia Crab	PGQO
SHFGN1	Shirogugen greenhouse test rep. 1	PGQO
SHFGN2	Shirofugen greenhouse test rep. 2	PGQO
SHFGN3	Shirofugen greenhouse test rep. 3	PGQO

SHIRO1	Shiro greenhouse test rep. 1	PGQO
SHIRO2	Shiro greenhouse test rep. 2	PGQO
SMYEV	Strawberry Mild Yellow Edge	COR
SPY1	Spy 227 greenhouse test rep. 1	PGQO
SPY2	Spy 227 greenhouse test rep. 2	PGQO
SSDATE	Super Star	PGQO
SSRES	Super Star	PGQO
SSTAR1	Super star greenhouse test rep. 1	PGQO
SSTAR2	Super star greenhouse test rep. 2	PGQO
STARKS	Greenhouse (apple)	PGQO
STEWWILT	Erwinia stewartii	NC7
STK	Starks Earliest	PGQO
STKRES	Starks Earliest	PGQO
TILT	Tilton field test	PGQO
TOBRSV	Tobacco Ringspot Nepovirus	COR
TOMRSV	Tomato Ringspot Nepovirus	COR
TOMRSV	Tomato ringspot test (Elisa)	PGQO
TOMRSV1	TOMRSV rep. 1 (Elisa)	PGQO
TOMRSV2	TOMRSV rep. 2 (Elisa)	PGQO
TRSV1	TRSV rep. 1 (Elisa)	PGQO
TRSV2	TRSV rep. 2 (Elisa)	PGQO
TRSV3	TRSV rep. 3 (Elisa)	PGQO
TSV	Tobacco Streak Ilarvirus	COR
TSV1	TSV rep. 1 (Elisa)	PGQO
TSV2	TSV rep. 2 (Elisa)	PGQO
TSWVI	Tomato Spotted Wilt Virus - Impatiens	COR
TSWVL	Tomato Spotted Wilt Virus - Lettuce	COR
UC10	F. virginiana selection 'UC-10'	COR
UC11	F. virginiana selection 'UC-11'	COR
UC4	F. vesca selection 'UC-4'	COR
UC5	F. vesca selection 'UC-5'	COR
UC6	F. vesca selection 'UC-5'	COR
V2RES	Viroid	PGQO
VB	Vein banding virus symptoms	COR
VC	Virginia Crab	COR
VCRAB1	Virginia crab greenhouse test rep. 1	PGQO
VCRAB2	Virginia crab greenhouse test rep. 2	PGQO
VCRB	Virginia Crab	PGQO
VESCA	Vesca. greenhouse test	PGQO
VESCA1	Vesca. greenhouse test rep. 1	PGQO
VESCA2	Vesca. greenhouse test rep. 2	PGQO
VIR2	Viroid	PGQO
VIRUS	Virus-like symptoms observed on accessio	COR
VISUAL	Visual inspection	PGQO
VISUAL1	Visual inspection rep. 1	PGQO
VISUAL2	Visual inspection rep. 2	PGQO
VISUAL3	Visual inspection rep. 3	PGQO
VTIS1	Apple scar skin test rep. 1	PGQO
VTIS2	Apple scar skin test rep. 2	PGQO
VULGAR1	Greenhouse test for Vulgar. rep. 1	PGQO
VULGAR2	Greenhouse test for Vulgar. rep. 2	PGQO
VY	Vein Yellows virus symptoms	COR
WF-1PL	White Fly	PGQO
WF-3PL	White Fly	Std.
WHFLY1	White fly greenhouse test rep. 1	PGQO
WHFLY2	White fly greenhouse test rep. 2	PGQO
WHFLY3	White fly greenhouse test rep. 3	PGQO

```
WHFLY4     White fly greenhouse test rep. 4        PGQO
```

Code Comments

ALP	graft inoculated in glasshouse
B13	graft inoculation in glasshouse
BALDWIN	graft inoculation
CORN_NCLS	Northern corn leaf spot, Helminthosporium ear rot (race 1) is _Cochliobolus carbonum_ R.R. Nelson (anamorph:_Bipolaris zeicola_ (G.L. Stout) Shoemaker =_Helminthosporium carbonum_ Ullstrup)
CORN_SCLB	Southern corn leaf blight and stalk rot is _Cochliobolus heterostrophus_(Drechs.) Drechs. (anamorph:_Bipolaris maydis_ (Nisikado & Miyake) Shoemaker = _Helminthosporium maydis_ Nisikado & Miyake))
CORN_SLSPO	Diplodia leaf spot or leaf streak, Southern leaf spot is _Stenocarpella macrospora(Earle) Sutton = _Diplodia macrospora_ Earle)
CQ	sap inoculation in glasshouse
CornS_Tran	Includes at least Steward's Wilt (Erwinia stewartii), Sorghum Downy Mildew.
DIPLOD_MAY	Diplodia ear rot, stalk rot, seed rot and seedling blight is _Diplodia maydis_ (Berk.)Sacc.
DMILD_BRST	Brown Stripe Downy Mildew
DMILD_CRAZ	Crazy top downy mildew Sclerophthora macrospora (Sacc.)Thirumalachar et al. = Sclerospora macrospora Sacc.
DMILD_JAVA	Java Downy Mildew
DMILD_LFSP	Leaf Splitting Downy Mildew
DMILD_PHIL	Philippine Downy Mildew
DMILD_SORG	Sorghum Downy Mildew
DMILD_SPON	Spontaneum Downy Mildew
DMILD_SUGC	Sugarcane Downy Mildew
FC	graft inoculation
GOSSS_WILT	Goss's bacterial wilt and blight (leaf freckles and wilt) Clavibacter michiganensis subsp. nebraskensis (Vidaver &Mandel) Davis et al. = Corynebacterium michiganense pv. nebraskense (Schuster et al.) Dye & Kemp
HN39	graft inoculation in glasshouse
HORSETOOTH	Ergot of Maize or Horse's tooth
JA	graft inoculation in glasshouse
JY	observed on accession
LA62	graft inoculation in glasshouse
ML	graft inoculation in glasshouse
MLO	DNA stain in lab
MM	graft inoculation in glasshouse
MOSAIC	observed on accession

MUN	graft inoculation in glasshouse
NG	graft inoculation in glasshouse
NP	graft inoculation in glasshouse
PBCVd	molecular probe
PC	graft inoculation in glasshouse
PV	graft inoculation in glasshouse
RING	observed on accession
RUSSIAN	graft inoculation in glasshouse
SMYEV	associated Potexvirus
STEWWILT	Stewart's disease (bacterial wilt) Erwinia stewartii(Smith) Dye
TSWVI	Impatiens Isolate
TSWVL	Lettuce Isolate
UC10	graft inoculation in glasshouse
UC11	graft inoculation in glasshouse
UC4	graft inoculation in glasshouse
UC5	graft inoculation in glasshouse
UC6	graft inoculation in glasshouse
VB	observed on accession
VC	graft inoculation in glasshouse
VTIS1	Can be serology, bioassay, or field (it depends on other factors)
VY	observed on accession

Date test started (began)

Characteristics

DATE, Optional

Definition

The date the pathogen test was started.

Rules

Must be a valid date since 1950.

Pathogen test completion (finished)

Characteristics

DATE, Optional

Definition

The number of tests in the indexing procedure which are complete.

Rules

Must be a valid date since 1950.

If began and finished not null, finished >= began.

Pathogen test result (results)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The result of the pathogen test.

Rules

Standard codes. Uppercase.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
AMBIGUOUS  Ambiguous test result                     Std.
NEGATIVE   Negative test result                      Std.
POSITIVE   Positive test result                      Std.
```

Number of tests needed (needed)

Characteristics

NUMBER(3), Optional

Definition

The total number of tests required to complete the pathogen testing procedure for the inventory sample.

Rules

Values >= 0.

Number of tests started (started)

Characteristics

NUMBER(3), Optional

Definition

The number of tests in the indexing procedure which have been started.

Rules

Values >= 0.

Number of tests completed (completed)

Characteristics

NUMBER(3), Optional

Definition

The date the pathogen test was completed.

Rules

Values >= 0.

General comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the pathogen test, entered by the site.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Viability tests table (VIA)

Definition
Table of the results of seed germination tests and any other tests of viability. Actual test procedures are contained in the evaluation table.
Rules
A site can add, update or delete via records for their site only. DBMU can add, update or delete via records for another site.

Minimum data to add a via record is: tested, viable or vigor.

Constraint
Primary key
Column: viano.
Foreign key
Column: eno. References table EVAL (eno).
Column: ivid. References table IV (ivid).

Inventory test number (viano)

Characteristics

NUMBER(8), Required, Software supplied

Definition

Unique sequence number to identify the viability test for inventory.

Rules

Primary key. Unique sequence number. Cannot be updated.

Germination date (tested)

Characteristics

DATE, Required

Definition

The date the germination test was conducted. The precision of the date may be qualified with via. datefmt.

Example

01-JAN-93
01/25/1994
01/1994
1994

Rules

Must be a valid date since 1950.
The format mask stored in DATEFMT is applied to this date.

Date format (datefmt)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Format of date tested as it was inserted.

Rules

Standard codes. Uppercase.
On insert: if null, set datefmt = MM/DD/YYYY.
On update: if null, do not update datefmt.

Codes

Value	Definition	Site
MM/DD/YYYY	Complete date	Std.
MM/YYYY	Year and month only	Std.
YYYY	Year only	Std.

Percent normal germination (norm)

Characteristics

NUMBER(3), Optional, Minimum value = -1, Maximum value = 100

Definition

The percent of propagules in the inventory sample that display normal germination. This value is required to calculate percent viability.

Rules

Values between -1 and 100.

Percent abnormal germination (abnorm)

Characteristics

NUMBER(3), Optional, Minimum value = 0, Maximum value = 100

Definition

The percent of propagules in the inventory sample displaying abnormal germination.

Rules

Values between 0 and 100.

Percent dormant germination (dormant)

Characteristics

NUMBER(3), Optional, Minimum value = 0, Maximum value = 100

Definition

The percent of propagules in the inventory sample that are viable, but which did not germinate. This value is required to calculate percent viability.

Rules

Values between 0 and 100.

Percent viability (viable)

Characteristics

NUMBER(3), Optional, Software supplied, Minimum value = -1, Maximum value = 100

Definition

This field contains the percent viability of the inventory sample. This value is calculated from the percent normal germination (norm), and the percent dormant propagules (dormant).

Rules

Conditional. Values between -1 and 100.

If norm or dormant not null, set viable = norm + dormant.

Vigor rating (vigor)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

This field contains the vigor rating of the inventory sample based on the results of the germination test.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
1	Vigor rating	Std.
2	Vigor rating	Std.
3	Vigor rating	Std.
4	Vigor rating	Std.
5	Vigor rating	Std.
6	Vigor rating	Std.
7	Vigor rating	Std.
8	Vigor rating	Std.
9	Vigor rating	Std.
BAD	Bad vigor	Std.
GOOD	Good vigor	Std.

Germination test sample size (sample)

Characteristics

NUMBER(5), Optional

Definition

The total number of propagules of the inventory sample used in the germination test.

Rules

Values > 0.

Germination test replications (reps)

Characteristics

NUMBER(2), Optional

Definition

The total number of replications performed to test the viability of the inventory sample.

Rules

Values > 0.

Inventory identifier (ivid)

Characteristics

NUMBER(8), Required

Definition

The internal inventory identifier used for this viability test.

Rules

Foreign key. Link to iv record. Cannot be updated.

Evaluation number (eno)

Characteristics

NUMBER(8), Optional

Definition

The internal evaluation identifier for the procedure used in the test.

Rules

Foreign key. Link to eval record.

General comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the germination or viability of the inventory sample, entered by the site.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Inventory Area – Site Specific -- Tables Owned by PROD

Cotton Inventory table (COTIV)

Definition

Table of specific fields for inventories at the Cotton Collection.

Rules

Only COT and DBMU can add, update or delete cotiv records.

Constraint

Primary key

Column: ivid.

Foreign key

Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics

NUMBER(8), Required

Definition

The internal inventory identifier for this COT sample.

Rules

Primary key. Foreign key. Link to iv table.

Generic character (gchar4)

Characteristics

VARCHAR2(4), Optional

Definition

Generic field of 4 characters.

Generic character (gchar6)

Characteristics

VARCHAR2(6), Optional

Definition

Generic field of 6 characters.

Generic character (gchar8)

Characteristics

VARCHAR2(8), Optional

Definition

Generic field of 8 characters.

Generic character (gchar10)

Characteristics
VARCHAR2(10), Optional
Definition
Generic field of 10 characters.

Generic character (gchar12)

Characteristics
VARCHAR2(12), Optional
Definition
Generic field of 12 characters.

Generic character (gchar20)

Characteristics
VARCHAR2(20), Optional
Definition
Generic field of 20 characters.

Generic number (gnum)

Characteristics
NUMBER(), Optional
Definition
Generic number field.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Site comment about the inventory sample.

GS PI Inventory table (GSPIIV)

Definition
Table of specific fields for Pea Genetic Stock Collection inventories.
Rules
Only GSPIIV or DBMU can add, update or delete GSPIIV records.
Constraint
Primary key
Column: ivid.
Foreign key
Column: ivid. Delete rule Cascade. References table IV (ivid).

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier for this GSPIIV sample.
Rules
Primary key. Foreign key. Link to iv table.

Sedd quantity (qt)

Characteristics
NUMBER(2), Optional
Definition
Quantity of seed on scale from 0 to 10.

Quantity code (qcode)

Characteristics
NUMBER(9), Optional
Definition
Quantity code for converting to seed count.

Quantity date check (qdate)

Characteristics
DATE, Optional
Definition
Date of last inventory quantity check.
Rules
Must be a valid date since 1950.

Seed age (age)

Characteristics
VARCHAR2(14), Optional
Definition
Years of the seed that where combined to make the sample.

Hundred seed weight (ivhswt)

Characteristics
NUMBER(), Optional
Definition
The weight of 100 seeds.

Increase location (incloc)

Characteristics

VARCHAR2(10), Optional

Definition

Designation for the field or location for the increase.

Year increased (incyr)

Characteristics

VARCHAR2(4), Optional

Definition

The year of the last increase.

Lot type (lottype)

Characteristics

CHAR(1), Optional, Coded

Definition

Code for the type of seed lot.

Codes

Value	Definition	Site
B	Base	Std.
D	Received from the Donor	Std.
I	Increase	Std.
L	Large amount of seed	Std.
O	Original	Std.
R	Regeneration	Std.
S	Selection	Std.
U	Unknown	Std.

Pollination vector (pollvec)

Characteristics

CHAR(2), Optional, Coded

Definition

The code for the pollination vector type used for seed increase.

Codes

Value	Definition	Site
FL	Flies	Std.
H	Hand	Std.
HB	Honey bees	Std.
LC	Leafcutter bees	Std.
U	Unknown	Std.
V	Vibrator	Std.
W	Wind	Std.
WB	Wild bees	W6

Code Comments

WB	Any bee in the area

Pollination environment (pollenvir)

Characteristics
VARCHAR2(10), Optional
Definition
The pollination environment.

Pollination procedure (pollproc)

Characteristics
VARCHAR2(4), Optional, Coded
Definition
The code for the type of pollination procedure.
Codes

Value	Definition	Site
COMB	Bulk seed lots	Std.
CROS	male sterile x male sterile sister line	Std.
OP	Pollination uncontrolled	Std.
SELF	Enforced self pollination	Std.
SIB	Full sib, half sib, selfing possible	Std.
SIB-CAGE	accessions isolated in cage.	W6
SIB-GEO	isolated by geographic distance	W6
SIBB	Half sib (selfs possible)	Std.
SIBH	Half sib (no selfs)	Std.
SIBO	Full sib	Std.
U	Unknown	Std.

Code Comments

SIB-CAGE	Full sib, half sib, selfing possible

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Site comment about the inventory sample.

Parent of split (splitivid)

Characteristics
NUMBER(8), Optional

Definition

The parent identifier (IVID) of the sample that was split.

Geneva Inventory table (GENIV)

Definition

Table of specific fields for inventories at the National Germplasm Repository Geneva.

Rules

Only GEN and DBMU can add, update or delete geniv records.

Constraint

Primary key

Column: ivid.

Foreign key

Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics

NUMBER(8), Required

Definition

The internal inventory identifier for this GEN sample.

Rules

Primary key. Foreign key. Link to iv table.

Restriction (rest)

Characteristics

CHAR(4), Optional, Coded

Definition

Restriction on the inventory sample.

Rules

Site codes.

Codes

Value	Definition	Site
P	Patent	Std.
PQ	Patent and Quarantine	Std.
PTM	Patent and Trademark	Std.
Q	Quarantine	Std.
TM	Trademark	Std.

Flower type (flower)

Characteristics

CHAR(2), Optional, Coded

Definition

Flower type of the plant.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
F	Female flower	Std.
M	Male flower	Std.
P	Perfect flower	Std.

Trueness to type (trueness)

Characteristics

CHAR(2), Optional, Coded

Definition

Code to identify trueness to type.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
F	Fruit	Std.
L	Leaves	Std.
NT	Not true	Std.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

Site comment about the inventory sample.

NC7 Inventory table (NC7IV)

Definition

Table of specific fields for inventories at the North Central Regional PI Station.

Rules

Only NC7 and DBMU can add, update or delete nc7iv records.

Constraint

Primary key

Column: ivid.

Foreign key

Column: ivid. Delete rule Cascade. References table IV (ivid).

Inventory identifier (ivid)

Characteristics

NUMBER(8), Required

Definition

The internal inventory identifier for this NC7 sample.

Rules

Primary key. Foreign key. Link to iv table.

Hundred seed weight (ivhswt)

Characteristics

NUMBER(), Optional

Definition

Hundred see weight of the inventory sample.

Pollination method (ivpoll)

Characteristics

VARCHAR2(10), Optional

Definition

The polination method used to develop the sample.

Codes

Value	Definition	Site
Cage		NC7
Comb		NC7
Cross		NC7
GH		NC7
IsoG		NC7
Isol		NC7
Open		NC7
Orig		NC7
Self	Plants were self pollinated for increase	NC7
Sib		NC7
SibB		NC7
SibH		NC7
SibO		NC7
Unk		NC7

Old temporary inventory identifier (oldinvid)

Characteristics

VARCHAR2(22), Optional

Definition

Old temporary inventory identifier.

Farm field code (farmfield)

Characteristics

VARCHAR2(10), Optional

Definition

Farm increase field code.

Codes

Value	Definition	Site
A		NC7
AE-1		NC7
AE-2		NC7
AE-3		NC7
AE-4		NC7
AE-5		NC7
AE-6		NC7
AE-7		NC7
AE-8		NC7
AE-9		NC7
B		NC7
C		NC7
CGRH		NC7
D		NC7
E		NC7
F		NC7
FGH-1	Farm Original glasshouse.	NC7
FGH-2	Farm bubble greenhouse.	NC7
FGH-3	Third farm greenhouse.	NC7
FGH-ENT	Farm entomology greenhouse.	NC7
G		NC7
H		NC7
J-1		NC7
J-10		NC7
J-11		NC7
J-12		NC7
J-2		NC7
J-3		NC7
J-4		NC7
J-5		NC7
J-6		NC7
J-7		NC7
J-8		NC7
J-9		NC7
NF-1		NC7
NF-2		NC7
NF-3		NC7
NF-4		NC7
SF-1		NC7
SF-2		NC7
SF-3		NC7
SF-4		NC7
SF-5		NC7
SF-6		NC7
SF-7		NC7
SF-8		NC7

Code Comments

FGH-1	Converted to plastic covering.
FGH-2	Covered with plastic film.
FGH-3	Third greenhouse dedicated to germplasm. South side of entry next to State street.

FGH-ENT	Green house attached to farm entomology building.

Main location (loctype)

Characteristics

VARCHAR2(10), Optional

Definition

Code for the main location (ROW, BLOCK, CAGE).

Codes

Value	Definition	Site
BLOCK		NC7
CAGE		NC7
PLANT		NC7
PLOT		NC7
RANGE		NC7
ROW		NC7

Lowest location (loclow)

Characteristics

VARCHAR2(6), Optional

Definition

Number or letter of a location. If a range exists, it is the lowest value in the range.

Highest location (lochigh)

Characteristics

VARCHAR2(6), Optional

Definition

Highest number or letter of a location in a range.

Sublocation type (sloctype)

Characteristics

VARCHAR2(10), Optional

Definition

Code to describe the sub-location type (ROW of cage).

Codes

Value	Definition	Site
ROW		NC7

Lowest sublocation (sloclow)

Characteristics

VARCHAR2(6), Optional

Definition

Number or letter of a sub-location. If a range exists, it is the lowest value in the range.

Highest sublocation (slochigh)

Characteristics
VARCHAR2(6), Optional
Definition
Highest number or letter of a sub-location in a range.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Site comment about the inventory sample.

User identifier (userid)

Characteristics
VARCHAR2(10), Optional, Software supplied
Definition
Login ID of the person who entered or last updated the record.

Date created (created)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was inserted into the database.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.

NE9 Inventory table (NE9IV)

Definition
Table of specific fields for inventories at the Northeastern Regional PI Station.
Rules
Only NE9 and DBMU can add, update or delete ne9iv records.
Constraint
Primary key

Column: ivid.

Foreign key

Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics

NUMBER(8), Required

Definition

The internal inventory identifier for this NE9 sample.

Rules

Primary key. Foreign key. Link to iv table.

Lot type (lottype)

Characteristics

CHAR(1), Optional, Coded

Definition

The seed lot type.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
B	Base	Std.
D	Received from the Donor	Std.
I	Increase	Std.
L	Large amount of seed	Std.
O	Original	Std.
R	Regeneration	Std.
S	Selection	Std.
U	Unknown	Std.

Codes of IVUSE (ivuse)

Characteristics

VARCHAR2(6), Optional, Coded

Definition

Purpose of this inventory sample.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
D	Distribution	Std.
N	Neither	Std.
R	Regeneration	Std.

Pollination procedure (pollproc)

Characteristics

CHAR(4), Optional, Coded

Definition

Pollination procedure.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
COMB	Bulk seed lots	Std.
CROS	male sterile x male sterile sister line	Std.
OP	Pollination uncontrolled	Std.
SELF	Enforced self pollination	Std.
SIB	Full sib, half sib, selfing possible	Std.
SIB-CAGE	accessions isolated in cage.	W6
SIB-GEO	isolated by geographic distance	W6
SIBB	Half sib (selfs possible)	Std.
SIBH	Half sib (no selfs)	Std.
SIBO	Full sib	Std.
U	Unknown	Std.

Code Comments

SIB- CAGE	Full sib, half sib, selfing possible

Pollination vector (pollvec)

Characteristics

CHAR(2), Optional, Coded

Definition

Pollination vector.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
FL	Flies	Std.
H	Hand	Std.
HB	Honey bees	Std.
LC	Leafcutter bees	Std.
U	Unknown	Std.
V	Vibrator	Std.
W	Wind	Std.
WB	Wild bees	W6

Code Comments

WB	Any bee in the area

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Site comment about the inventory sample.

NR6 Inventory table (NR6IV)

Definition
Table of specific fields for inventories at the National Resources Support Project - 6.
Rules
Only NR6 and DBMU can add, update or delete nr6iv records.
Constraint
Primary key
Column: ivid.
Foreign key
Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier for this NR6 sample.
Rules
Primary key. Foreign key. Link to iv table.

Generic character (gchar20)

Characteristics
VARCHAR2(20), Optional
Definition
Generic field of 20 characters.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Site comment about the inventory sample.

NSSL Inventory table (NSSLIV)

Definition
Table of specific fields for inventories at the National Seed Storage Laboratory.
Rules
Only NSSL and DBMU can add, update or delete nssliv records.

Constraint
Primary key
Column: ivid.
Foreign key
Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier for this NSSL sample.
Rules
Primary key. Foreign key. Link to iv table.

Percent cleanout (gchar4)

Characteristics
VARCHAR2(4), Optional, Minimum value = 0, Maximum value = 100
Definition
Indicates the amount of inert matter, other crop and weed seed present in the sample.
Rules
Values between 0 and 100.

Generic character (gchar6)

Characteristics
VARCHAR2(6), Optional
Definition
Generic field of 6 characters.

Next test (gchar8)

Characteristics
VARCHAR2(8), Optional
Definition
Date to perform a follow-up monitor test.

Poll (gchar10)

Characteristics
VARCHAR2(10), Optional
Definition
The pollination type per the Site's designation in the record.

Generic character (gchar12)

Characteristics
VARCHAR2(12), Optional
Definition
Generic field of 12 characters.

Generic character (gchar20)

Characteristics
VARCHAR2(20), Optional
Definition
Generic field of 20 characters.

Generic number (gnum)

Characteristics
NUMBER(), Optional
Definition
Generic number field.

Hundred seed weight (ivhswt)

Characteristics
NUMBER(), Optional
Definition
The weight of a hundred seeds in this sample.

Moisture content (moist)

Characteristics
NUMBER(4), Optional
Definition
Percent moisture content of the propagule.

Sample test flag (mtype)

Characteristics
CHAR(1), Optional, Coded
Definition
Flag indicating if sample actually tested for moisture (T for tested) or if value is result of other samples tested (M for mean).
Rules
Site codes. Uppercase.
Codes

Value	Definition	Site

```
=====      ==========                                ====
M          Mean value                                Std.
T          Tested value                              Std.
```

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Site comment about the inventory sample.

National Arboretum Inventory table (NAIV)

Definition
Table of specific fields for inventories at the National Arboretum.
Rules
Only NA and DBMU can add, update or delete naiv records.
Constraint
Primary key
Column: ivid.
Foreign key
Column: checkby. References table COOP (cno).
Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier for this NA sample.
Rules
Primary key. Foreign key. Link to iv table.

Sex of the plant (plantsex)

Characteristics
CHAR(1), Optional, Coded
Definition
Sex of the plant.
Rules
Site codes. Uppercase.
Codes

```
Value      Definition                                Site
=====      ==========                                ====
B          Both male and female individuals          Std.
F          Female individual(s)                      Std.
H          Hermaphroditic (bisexual) flowers         Std.
M          Male individual(s)                        Std.
```

```
O          Monoecious                                Std.
Q          Sex unknown                               Std.
```

Code Comments

O	Both male and female flowers on an individual

Growth habit (habit)

Characteristics
CHAR(2), Optional, Coded
Definition
Plant growth habit.
Rules
Site codes. Uppercase.
Codes

```
Value      Definition                                Site
=====      ==========                                ====
A          Annual                                    Std.
B          Bulbous                                   Std.
C          Succulent                                 Std.
D          Dwarf shrub                               Std.
E          Epiphyte                                  Std.
G          Groundcover                               Std.
H          Herbaceous perennial                      Std.
I          Intermediate between shrub and tree       Std.
P          Parasite                                  Std.
S          Shrub (clumping, non-clonal)              Std.
SC         Shrub (clonal)                            Std.
T          Tree (non-clonal, including palms)        Std.
TC         Tree (clonal)                             Std.
```

Grid location (grid)

Characteristics
CHAR(3), Optional
Definition
Plant grid location.

Voucher needed (vneeded)

Characteristics
CHAR(2), Optional, Coded
Definition
Voucher needed for inventory sample.
Rules
Site codes. Uppercase.
Codes

```
Value      Definition                                Site
=====      ==========                                ====
F          Fruit or cone collection (unmounted)      Std.
H          Herbarium specimen - unspecified type     Std.
HF         Herbarium specimen - flower or strobili   Std.
HR         Herbarium specimen - fruit or cone        Std.
HS         Herbarium specimen - seedling             Std.
HV         Herbarium specimen - vegetative           Std.
HW         Herbarium specimen - winter condition     Std.
L          Liquid-preserved material                 Std.
P          Photograph - unspecified type             Std.
PB         Photograph - black and white              Std.
PC         Photograph - color print                  Std.
PO         Pollen or pollinaria                      Std.
PS         Photograph - slide                        Std.
S          Seed                                      Std.
```

Code Comments

HF	With immature strobili
HV	With leaves or needles
HW	With twigs and buds

Date checked (checked)

Characteristics
DATE, Optional
Definition
The date the plant was lasted checked.
Rules
Must be a valid date since 1950.

Checked by (checkby)

Characteristics
NUMBER(8), Optional
Definition
Link to coop table for person who checked the plant.

Check note (checknote)

Characteristics
VARCHAR2(25), Optional
Definition
Notes on plant condition at last check.

Comment (cmt)

Characteristics
VARCHAR2(60), Optional
Definition
Site comment about the inventory sample.

S9 Inventory table (S9IV)

Definition
Table of specific fields for inventories at the Southern Regional PI Station.
Rules
Only S9 and DBMU can add, update or delete s9iv records.
Constraint
Primary key
Column: ivid.
Foreign key
Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier for this S9 sample.
Rules
Primary key. Foreign key. Link to iv table.

Increase location (incrloc)

Characteristics
VARCHAR2(4), Optional, Coded
Definition
Location of sample increase.
Rules
Site codes. Uppercase.
Codes

Value	Definition	Site
AL	Alabama	Std.
AMER	Americas	S9
AMES	Ames, Iowa (NC7)	S9
ASH	Ashburn, GA (Kim Moore, AgraTech, Inc.)	S9
AZ	Greenhouse - Phoenix, Arizona	S9
BLED	Bledsoe Farm, Williamson, GA	S9
BYR	Byron, GA	Std.
CA	California	Std.
CIAT	Int'l. Center for Trop. Agric.-Colombia	S9
ECU	Germplasm increased in Ecuador	S9
EXP	Experiment, GA	Std.
FL	Florida	Std.

GEN	Geneva, New York (NE-9)	S9
GH	Greenhouse - Experiment	S9
GHAL	Greenhouse - Auburn, Alabama	S9
GHCO	Greenhouse - Corvallis	S9
GHKY	Greenhouse-Univ. of Kentucky, Lexington	S9
GHMD	Greenhouse - Beltsville, Maryland	S9
GHNM	Greenhouse - Paul Bosland, New Mexico	S9
GHWA	Greenhouse - Pullman, WA	S9
GRIF	Westbrook Farm, Griffin, GA	S9
HA	Hawaii	S9
ISA	Isabella, PR	S9
KS	PMC, Manhattan, Kansas	S9
KY	University of Kentucky, Lexington, KY	S9
LA	Louisiana	S9
MAY	Mayaguez, PR	Std.
MEX	Mexico - Coordinated by C. Cook, Texas	S9
MO	Plant Materials Center, Elsberry, MO	S9
MS	Mississippi State, MS	S9
NB	Nebraska	S9
NC	North Carolina	Std.
ND	PMC, Bismarck, North Dakota	S9
NETH	Rath - Netherlands	S9
NM	New Mexico	Std.
NY	Big Flats PMC, Corning, New York	S9
OK	Oklahoma	S9
PR	Puerto Rico	Std.
SAV	Savannah, GA	S9
SCRH	Screenhouse	S9
STC	St. Croix	Std.
TIF	Tifton, GA	Std.
TN	Tennessee	S9
TX	Texas	Std.
VA	Virginia	Std.
WA	Washington (various locations in WA)	S9

Plot number for the sample at the increase location (plotno)

Characteristics

VARCHAR2(10), Optional

Definition

Plot number for the sample at the increase location.

Hundred seed weight (ivhswt)

Characteristics

NUMBER(11), Optional

Definition

The weight of a hundred seeds in this sample.

Pollination technique (pollen)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Pollination technique used for this particular sample.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
BAG	Bag pollination	Std.
CAGE	Cage pollination	Std.
HAND	Hand pollination	Std.
ISOLATED	Isolated area away from other accessions	S9
OPEN	Open pollination	Std.
SELF	Self pollination	Std.
SIB	Sib pollination	Std.

Virus testing information (virusstat)

Characteristics

VARCHAR2(10), Optional

Definition

S-9 virus testing information.

Codes

Value	Definition	Site
*	See the ivnrln1-3 for explanation	S9
Field		S9
Greenhouse		S9
Tested	Virus Tested	S9
Testing	Virus Testing	S9
Virus-free		S9

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

Site comment about the inventory sample.

SOY Inventory table (SOYIV)

Definition

Table of specific fields for inventories at the Soybean Collection.

Rules

Only SOY and DBMU can add, update or delete soyiv records.

Constraint

Primary key

Column: ivid.

Foreign key

Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier for this SOY sample.
Rules
Primary key. Foreign key. Link to iv table.

Generic character (gchar4)

Characteristics
VARCHAR2(4), Optional
Definition
Generic field of 4 characters.

Evaluation plot number (ge_plot)

Characteristics
VARCHAR2(6), Optional
Definition
Germplasm evaluation plot number.

Generic character (gchar8)

Characteristics
VARCHAR2(8), Optional
Definition
Generic field of 8 characters.

Future seed source (futr_ss)

Characteristics
VARCHAR2(10), Optional
Definition
Current plot no. and possible future seed source.

Current seed source (curr_ss)

Characteristics
VARCHAR2(12), Optional
Definition
Current seed source for distribution and planting.

Previous seed source (prev_ss)

Characteristics
VARCHAR2(20), Optional
Definition
Most recent seed source.

Plants harvested (pl_plnts)

Characteristics
NUMBER(), Optional
Definition
Number of plants harvested for planting.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Site comment about the inventory sample.

TOB Inventory table (TOBIV)

Definition
Table of specific fields for inventories at the Tobacco Collection.
Rules
Only TOB and DBMU can add, update or delete tobiv records.
Constraint
Primary key
Column: ivid.
Foreign key
Column: ivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier for this TOB sample.
Rules
Primary key. Foreign key. Link to iv table.

Leaf tobacco division (classtype)

Characteristics
CHAR(4), Optional, Coded
Definition
Major division of leaf tobacco.

Rules

Site codes. Uppercase.

Codes

Value	Definition	Site
448		Std.
BU	Burley	Std.
CB	Cigar binder	Std.
CF	Cigar filler	Std.
CW	Cigar wrapper	Std.
DAC	Dark air-cured	Std.
FC	Flue-cured	Std.
FRC	Fire-cured	Std.
HU	Hungarian	Std.
MD	Maryland	Std.
NT		Std.
OR	Oriental	Std.
OT	Other (Perique, Bidi)	Std.
PR	Primitive	Std.
PY		Std.
TU		Std.
XX		Std.

Voucher sample number (voucherno)

Characteristics

NUMBER(5), Optional

Definition

Site seed voucher sample number.

Generic character (gchar4)

Characteristics

VARCHAR2(4), Optional

Definition

Generic field of 4 characters.

Generic character (gchar6)

Characteristics

VARCHAR2(6), Optional

Definition

Generic field of 6 characters.

Generic character (gchar8)

Characteristics

VARCHAR2(8), Optional

Definition

Generic field of 8 characters.

Generic character (gchar10)

Characteristics
VARCHAR2(10), Optional
Definition
Generic field of 10 characters.

Generic character (gchar12)

Characteristics
VARCHAR2(12), Optional
Definition
Generic field of 12 characters.

Generic character (gchar20)

Characteristics
VARCHAR2(20), Optional
Definition
Generic field of 20 characters.

Generic number (gnum)

Characteristics
NUMBER(), Optional
Definition
Generic number field.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
Site comment about the inventory sample.

W6 Inventory table (W6IV)

Definition
Table of specific fields for inventories at the Western Regional PI Station.
Rules
Only W6 or DBMU can add, update or delete w6iv records.
Constraint
Primary key
Column: ivid.

Foreign key
Column: ivid. References table IV (ivid).
Column: splitivid. References table IV (ivid).

Inventory identifier (ivid)

Characteristics
NUMBER(8), Required
Definition
The internal inventory identifier for this W6 sample.
Rules
Primary key. Foreign key. Link to iv table.

Seed quantity (qt)

Characteristics
NUMBER(2), Optional
Definition
Quantity of seed on scale from 0 to 10.

Quantity code (qcode)

Characteristics
NUMBER(9), Optional
Definition
Quanity code for converting to seed count.

Quantity date check (qdate)

Characteristics
DATE, Optional
Definition
Date of last inventory quantity check.
Rules
Must be a valid date since 1950.

Seed age (age)

Characteristics
VARCHAR2(14), Optional
Definition
Years of the seed that where combined to make the sample.

Hundred seed weight (ivhswt)

Characteristics

NUMBER(), Optional

Definition

The weight of a 100 seeds.

Increase location (incloc)

Characteristics

VARCHAR2(10), Optional

Definition

Designation for the field or location for the increase.

Year last increased (incyr)

Characteristics

VARCHAR2(4), Optional

Definition

The year of the last increase.

Lot type (lottype)

Characteristics

CHAR(1), Optional, Coded

Definition

Code for the type of seed lot.

Codes

Value	Definition	Site
B	Base	Std.
D	Received from the Donor	Std.
I	Increase	Std.
L	Large amount of seed	Std.
O	Original	Std.
R	Regeneration	Std.
S	Selection	Std.
U	Unknown	Std.

Pollination vector (pollvec)

Characteristics

CHAR(2), Optional, Coded

Definition

The code for the pollination vector type used for seed increase.

Codes

Value	Definition	Site
FL	Flies	Std.
H	Hand	Std.
HB	Honey bees	Std.
LC	Leafcutter bees	Std.

```
U          Unknown                                  Std.
V          Vibrator                                 Std.
W          Wind                                     Std.
WB         Wild bees                                W6
```

Code Comments

WB	Any bee in the area

Pollination environment (pollenvir)

Characteristics

VARCHAR2(10), Optional

Definition

The pollination environment.

Pollination procedure (pollproc)

Characteristics

VARCHAR2(4), Optional, Coded

Definition

The code for the type of pollination procedure.

Codes

```
Value      Definition                               Site
=====      ==========                               ====
COMB       Bulk seed lots                           Std.
CROS       male sterile x male sterile sister line  Std.
OP         Pollination uncontrolled                 Std.
SELF       Enforced self pollination                Std.
SIB        Full sib, half sib, selfing possible     Std.
SIB-CAGE   accessions isolated in cage.             W6
SIB-GEO    isolated by geographic distance          W6
SIBB       Half sib (selfs possible)                Std.
SIBH       Half sib (no selfs)                      Std.
SIBO       Full sib                                 Std.
U          Unknown                                  Std.
```

Code Comments

SIB-CAGE	Full sib, half sib, selfing possible

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

Site comment about the inventory sample.

Parent of split (splitivid)

Characteristics

NUMBER(8), Optional

Definition

The parent identifier (IVID) of the sample that was split.

Observation/Descriptor Area -- Tables Owned by PROD

Descriptor table (DSC)

Definition

Table of the descriptors for the crop or descriptor set. It includes both characterization (plant height, oil content, days to flower, etc.) and evaluation parameters (resistance to an insect species, response to fertilizer, etc.). The list of descriptors is determined by the curator for the crop, with advice from the Crop Advisory Committee.

Rules

A site can add, update or delete dsc records for their site only. DBMU can add, update or delete dsc records for another site.

Constraint

Primary key

Column: dno.

Foreign key

Column: cropno. References table CROP (cropno).

Column: site. References table MAIN.SITE (site).

Unique key

Columns: cropno, dqname.

Descriptor number (dno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier for the descriptor in a crop. It serves as a link between the descriptor table and other tables in the database.

Rules

Primary key. Unique number assigned by user. Can be updated unless referenced in other tables. dno/1000 must equal cropno.

Descriptor short name (dqname)

Characteristics

VARCHAR2(10), Required

Definition

Short name for the descriptor for querying and report headings.

Example

LEAFCOLOR
ALTERNARIA
CORE
DROUGHT
YIELD

Rules

Unique within a crop. Uppercase. Spaces converted to periods, other punctuation removed.

Descriptor long name (dname)

Characteristics

VARCHAR2(30), Optional

Definition

Long name or phrase to identify the descriptor.

Rules

On insert: if null, set = dqname.

Crop Germplasm Committee (cac)

Characteristics

CHAR(1), Required, Coded

Definition

A code to indicate if this is a Crop Germplasm Committee (CGC) approved descriptor.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
N	Not a CGC approved descriptor	Std.
Y	CGC approved descriptor	Std.

Descriptor category (dcat)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

A category used to group descriptors.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
CHEMICAL	Chemical composition descriptors	Std.
COMMENT	General information	Std.
CYTOLOGIC	Cytological or cellular descriptors	Std.
DISEASE	Disease descriptors	Std.
FLWR-FRUIT	Inflorescence and fruit descriptors	Std.
GENSTOCK	Genetic stock descriptors	Std.
GROWTH	Growth descriptors	Std.
INSECT	Insect descriptors	Std.
MOLECULAR	Molecular descriptors	Std.
MORPHOLOGY	Morphological descriptors	Std.

```
NEMATODE   Nematode descriptors                    Std.
PHENOLOGY  Phenological descriptors                Std.
PHYSIOLOGY Physiology descriptors                  Std.
PRODUCTION Production descriptors                  Std.
QUALITY    Quality descriptors                     Std.
ROOTSTOCK  Rootstock descriptors                   Std.
STRESS     Environmental stress descriptors        Std.
TAXONOMIC  Taxonomic descriptors (e.g. race)       Std.
```

Code Comments

CYTOLOGIC	Including chromosome no., etc.
DISEASE	Including bacteria, fungi, mycoplasmas, viruses, etc.
GROWTH	(Heights, Habits, Vigor, etc.
MOLECULAR	Including Isozyme, RFLP, RAPD, etc.
MORPHOLOGY	Including flower, fruit, leaf, seed and other morphological characteristics
PRODUCTION	Including yield, 100 seed weight and other descriptors related to production
QUALITY	Including Beta Glucan content, etc.
STRESS	Including drought, salt, heat, cold, etc.

Observation type (obtype)

Characteristics

VARCHAR2(10), Required, Coded

Definition

The type of observation data collected.

Rules

Standard codes. Uppercase.

Cannot be updated if ob records exist.

Codes

```
Value      Definition                              Site
=====      ==========                              ====
CHAR       Alpha/numeric descriptor                Std.
LOWER      Lowercase character descriptor          Std.
NUMERIC    Numeric descriptor                      Std.
UPPER      Uppercase character descriptor          Std.
```

Coded flag (usecode)

Characteristics

CHAR(1), Optional

Definition

A flag ('X') to indicate that observations are coded.

Rules

User supplied. Value = X.
If obtype = CHAR and codes exist, usecode = X.
Cannot be null if codes exist. Cannot be updated if ob records exist.

Maximum length (obmaxlen)

Characteristics
NUMBER(2), Optional
Definition
Longest length allowed of an observation for this descriptor. Used for reporting purposes.
Rules
On update: if ob records exist, obmaxlen can only be increased. Values > 0.

Observation format (obformat)

Characteristics
VARCHAR2(15), Optional
Definition
Format of the observation if obtype is numeric.
Rules
Conditional.
On insert: if obtype = NUMERIC, set obformat = user input or if null, set obformat = default format (S999999.999).
On insert: if obtype <> NUMERIC, set obformat null.
Cannot update obformat if ob records exist or obtype <> NUMERIC.

Maximum value (obmax)

Characteristics
NUMBER(), Optional
Definition
Maximum value allowed for an observation of a numeric descriptor.
Rules
On insert or update: if obtype <> NUMERIC, set obmax null.
On insert or update: if obtype = NUMERIC, set obmaxlen = 10.
On insert or update: obmax >= obmin.
On update: if ob records exist, obmax value can only be increased.

Minimum value (obmin)

Characteristics
NUMBER(), Optional
Definition
Minimum value allowed for an observation of a numeric descriptor.
Rules

On insert or update: if obtype <> NUMERIC, set obmin null.
On update: if ob records exist, obmin value can only be decreased.

Original type (orgtype)

Characteristics
VARCHAR2(10), Optional, Coded
Definition
Type of original observation data collected for this descriptor.
Rules
Standard codes. Uppercase.
Cannot be updated if ob records exist.
Codes

Value	Definition	Site
CHAR	Alpha/numeric descriptor	Std.
LOWER	Lowercase character descriptor	Std.
NUMERIC	Numeric descriptor	Std.
UPPER	Uppercase character descriptor	Std.

Original format (orgformat)

Characteristics
VARCHAR2(15), Optional
Definition
Format of the original value if orgtype is numeric.
Rules
Standard codes. Uppercase.
Cannot be updated if ob records exist.

Research crop number (cropno)

Characteristics
NUMBER(8), Required
Definition
The internal crop identifier for this descriptor set.
Rules
Foreign key. Link to crop table.
If crop record deleted, dsc records automatically deleted if ob records do not exist.

Site code (site)

Characteristics
VARCHAR2(8), Optional
Definition
The site responsible for this descriptor and codes.
Rules

Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

Descriptor definition (def)

Characteristics
VARCHAR2(240), Optional
Definition
Detailed definition of the descriptor.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about this descriptor.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Descriptor code table (CD)

Definition

Table of the list of acceptable values.

Rules

A site can add, update or delete cd records for only their dsc records. DBMU can add, update or delete cd records for another site.

Constraint

Primary key

Columns: dno, code.

Foreign key

Column: dno. References table DSC (dno).

Descriptor number (dno)

Characteristics

NUMBER(8), Required

Definition

The internal descriptor identifier for the code.

Rules

Foreign key. Link to dsc table. Cannot be updated. If dsc record deleted, cd records automatically deleted if ob records do not exist.

Descriptor code (code)

Characteristics

VARCHAR2(30), Required

Definition

Alphanumeric code value for a descriptor.

Example

+
1
9
b1

Rules

Unique for a descriptor.
Can only insert codes if dsc.usecode = X.
On insert: if dsc.obtype = UPPER, set code to uppercase.
On insert: if dsc.obtype = LOWER, set code to lowercase.

Code definition (def)

Characteristics

VARCHAR2(240), Optional

Definition

Detailed definition of the code.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Descriptor qualifier table (QUAL)

Definition
Table of subcategories of the descriptor. It is currently used for pathogen races and genetic data.
Rules
A site can add, update or delete qual records for their dsc records only. DBMU can add, update or delete qual records for another site.
Constraint
Primary key
Column: qno.
Foreign key
Column: dno. References table DSC (dno).
Other indexes
Non-unique on column: qual.

Qualifier number (qno)

Characteristics
NUMBER(8), Required, Software supplied
Definition
The unique sequential number assigned to the qualifier of the descriptor.
Rules
Primary key. Unique sequence number. Can be updated unless referenced in other tables.

Qualifier code (qual)

Characteristics
VARCHAR2(30), Required
Definition
Name of the qualifier for the descriptor, usually the races of the pathogen for which resistance is being evaluated.
Example
CHROMOSOME 7
Multiple
BIOTYPE-L
264B

Descriptor number (dno)

Characteristics
NUMBER(8), Required
Definition
The internal descriptor identifier for the qualifier.
Rules
Foreign key. Link to dsc table. Cannot be updated. If dsc record deleted, qual records automatically deleted, if ob records do not exist.

Qualifier definition (def)

Characteristics
VARCHAR2(240), Optional
Definition
Detailed definition of the qualifier.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Descriptor web links table (DURL)

Definition
Table of URL links to images or pages for crops, their description, or code values of the descriptors.
Constraint
Foreign key
Columns: dno, code. Delete rule Cascade. References table CD (dno, code).
Column: cropno. Delete rule Cascade. References table CROP (cropno).
Column: dno. Delete rule Cascade. References table DSC (dno).
Column: site. References table MAIN.SITE (site).
Unique key
Columns: urltype, seqno, cropno, dno, code.

URL type (urltype)

Characteristics
VARCHAR2(10), Required, Coded
Definition
Code for the type of page.
Codes

Value	Definition	Site
IMAGE	URL is image to display inline	Std.
LINK	URL is link to another page	Std.

Sequence number (seqno)

Characteristics
NUMBER(8), Required
Definition
Sequence number to make the record unique.

Crop number (cropno)

Characteristics
NUMBER(8), Required
Definition
Internal identifier for the crop.

Descriptor number (dno)

Characteristics
NUMBER(8), Optional
Definition
Internal identifier for the descriptor.

Code (code)

Characteristics
VARCHAR2(30), Optional
Definition
Descriptor code value if link is to specific condition.
Example
+
1
9
b1

Caption (caption)

Characteristics
VARCHAR2(60), Optional
Definition
Caption to display if no image is shown.

URL (url)

Characteristics
VARCHAR2(100), Required
Definition
Full URL address of the page.

Site (site)

Characteristics
VARCHAR2(8), Required
Definition
The site responsible for the descriptor URL record.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comment about the link.

User identifier (userid)

Characteristics
VARCHAR2(10), Required
Definition
Person who entered or last updated the record.

Date created (created)

Characteristics
DATE, Required
Definition
The date the record was entered into the database.

Date modified (modified)

Characteristics
DATE, Optional
Definition
The date the record was last updated.

Observation table (OB)

Definition
Table of all the crop specific observations for an accession. Each value is stored in a separate record with links to the accession, inventory sample (optional), descriptor, evaluation, and qualifier (optional).
Rules
A site can add, update or delete ob records for only their acc or dsc records. DBMU can add, update or delete ob records for another site.
Constraint
Foreign key
Column: acid. References table ACC (acid).
Column: dno. References table DSC (dno).

Column: eno. References table EVAL (eno).
Column: ivid. References table IV (ivid).
Column: qno. References table QUAL (qno).
Unique key
Columns: dno, ob, acid, eno, qno, ivid.

Descriptor number (dno)

Characteristics
NUMBER(8), Required
Definition
The internal descriptor identifier for the observation.
Rules
Foreign key. Link to dsc table. Cannot be updated.
On insert: acid tax.cropno = dsc.cropno.

Observation value (ob)

Characteristics
VARCHAR2(30), Required
Definition
The observed value for this descriptor, qualifier, and evaluation.
Rules
On insert or update: if dsc.usecode = X, check against cd.code.
On insert or update: check against dsc. obmaxlen.
On insert or update: if dsc.obtype = CHAR and dsc.usecode is null, set ob = user input.
On insert or update: if dsc.obtype = NUMERIC, set ob to dsc.obformat and if obmin and obmax not null, check against obmin and obmax.
On insert or update: if dsc.obtype = UPPER, set ob to uppercase value.
On insert or update: if dsc.obtype = LOWER, set ob to lowercase value.

Accession identifier (acid)

Characteristics
NUMBER(8), Required
Definition
The internal accession identifier for this observation.
Rules
Foreign key. Link to acc table. Cannot be updated.

Evaluation number (eno)

Characteristics
NUMBER(8), Required
Definition

The internal evaluation identifier for the observation.

Rules

Foreign key. Link to eval table.

Qualifier number (qno)

Characteristics

NUMBER(8), Optional

Definition

The internal qualifier identifier for the observation.

Rules

Foreign key. Link to qual table.
Must be a valid qno for the dno.

Inventory identifier (ivid)

Characteristics

NUMBER(8), Optional

Definition

The internal inventory identifier of the sample used for this observation.

Rules

Foreign key. Link to inv table.

Original value (orgvalue)

Characteristics

VARCHAR2(30), Optional

Definition

Original value of this observation when ob is coded or adjusted.

Rules

Can insert orgvalue if dsc.orgtype or dsc.orgformat null.
On insert or update: if dsc.orgtype = NUMERIC, set orgvalue to dsc.orgformat.
On insert or update: if dsc.orgtype = UPPER, set orgvalue to uppercase value.
On insert or update: is dsc.orgtype = LOWER, set orgvalue to lowercase value.

Frequency (freq)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Frequency of this observation.

Rules

Uppercase.
On insert: if not coded, set numeric value to default format (999.9).

Codes

Value	Definition	Site

```
=====      ==========                                ====
10TH       Tenth Most Predominant                    Std.
11TH       Eleventh Most Predominant                 Std.
12TH       Twelth Most Predominant                   Std.
1ST        Most Predominant                          Std.
2ND        Second Most Predominant                   Std.
3RD        Third Most Predominant                    Std.
4TH        Fourth Most Predominant                   Std.
5TH        Fifth Most Predominant                    Std.
6TH        Sixth Most Predominant                    Std.
7TH        Seventh Most Predominant                  Std.
8TH        Eighth Most Predominant                   Std.
9TH        Ninth Most Predominant                    Std.
< 100                                                Std.
< 33                                                 Std.
HIGH       Highest Frequency                         Std.
LOW        Lowest Frequency                          Std.
MEDIUM     Second Highest Frequency                  Std.
```

Mean value (mean)

Characteristics

NUMBER(), Optional

Definition

Mean value of this observation.

Maximum value (high)

Characteristics

NUMBER(), Optional

Definition

Maximum value of this observation.

Rules

If mean and high not null, high >= mean.

Minimum value (low)

Characteristics

NUMBER(), Optional

Definition

Minimum value of this observation.

Rules

If mean and low not null, low <= mean.
If high and low not null, low <= high.

Standard deviation (sdev)

Characteristics

NUMBER(), Optional

Definition
Standard deviation of this observation.
Rules
Values >= 0.

Sample size (ssize)

Characteristics
NUMBER(7), Optional
Definition
Sample size used to obtain this observation.
Rules
Values >= 0.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the observation.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Orders Area -- Tables Owned by PROD

Order table (ORD)

Definition

Table of requests for plant germplasm or germplasm information, including who is requesting the germplasm or information, and what is requested. Details about what is sent are contained in the oi table. Interaction among the sites due to forwarding, splitting, and processing through APHIS requires each site to keep their orders up to date.

Rules

A site can add an ord record for another site. A site can change site to another site, but cannot change another site to their site. A site can update other ord fields or delete ord records for their site only. DBMU can add, update or delete ord records for another site.

Constraint

Primary key

Column: orno.

Foreign key

Column: final. References table COOP (cno).
Column: origno. References table ORD (orno).
Column: orderer. References table COOP (cno).
Column: shipto. References table COOP (cno).
Column: site. References table MAIN.SITE (site).
Column: source. References table COOP (cno).

Other indexes

Non-unique on columns: localno, site.

Non-unique on column: reqref.

Order number (orno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

A unique internal number assigned to each order. It serves as a link between the order table and other tables in the database.

Rules

Primary key. Unique sequence number. Cannot be updated.

Original order number (origno)

Characteristics

NUMBER(8), Optional, Software supplied

Definition

The original or parent order number when an order is split. The origno field is used to track the progress of the original order.

Rules

Foreign key. Link to ord table.
On insert: if null, set origno = orno.

Update site (site)

Characteristics

VARCHAR2(8), Optional

Definition

The site responsible for processing this order.

Rules

Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.
On update to another site; oact record automatically created if action = FORWARD.

Local number (localno)

Characteristics

NUMBER(8), Optional

Definition

Local order numbers for sites who maintain order numbers separate from the system order numbers (orno). Local order numbers (localno) may consist of existing sequences which have historic value, or are numbers from a local database.

Order type (ortype)

Characteristics

CHAR(2), Optional, Coded, Default = 'DI'

Definition

The type of order.

Rules

Standard codes. Uppercase.
On insert: if null, set ortype = DI.
If ortype = RQ, oi records do not have to be from userid site.

Codes

Value	Definition	Site
BA	Backup	Std.
DI	Distribution	Std.
GI	Germplasm introduction	Std.
GR	Germination	Std.
HE	Herbarium/reidentification	Std.
IO	Information only	Std.
OB	Observation/evaluation	Std.

```
RE          Replenishment/regrow                    Std.
RP          Repatriation                            Std.
TR          Transfer                                Std.
```

Code Comments

BA	Providing an inventory sample for security/safety purposes to NSSL or other approved sites.
DI	The primary reason for the order is distribution of germplasm to a scientist at his/her request.
GI	Transfer of new germplasm from PEO to NSSL or other sites. Includes quarantine, CSR, and PVP germplasm.
GR	Germination/viability testing.
HE	Herbarium or reidentification.
IO	Request for information only with no germplasm distribution.
OB	The primary reason for the order is collection of descriptor data or determination of pathogen status at the request of the Curator or the CGC.
RE	Regeneration/Replenishment/Re-grow.
RP	Repatriating germplasm back to the original donor
TR	Transfer of germplasm from one site to a new primary site.

Date ordered (ordered)

Characteristics

DATE, Optional, Default = Current date

Definition

The date the order is received.

Rules

Must be a valid date since 1950.
On insert: if null, set ordered = system date.

Order status (status)

Characteristics

VARCHAR2(10), Optional, Coded, Default = 'NEW'

Definition

The current status of an order. The status of an order can change as the order progresses, or it can be loaded as a completed order from a local file.

Rules

Standard codes. Uppercase.
Sites can add codes for intermediate steps.
On insert: if null and done = Y, set status = SHIPPED.
On insert: if null, set status = NEW.
On insert: if ordered, acted and status null, set status = NEW.
On insert or update: automatically create oact record from ordered, status and

acted fields.
On update: where status = APHIS, automatically create ti record.
If ord.status updated to SPLIT, automatically create a second ord record and move oi records with status = SPLIT to second ord record. Original ord record has ord.status = SPLIT, and new ord record has ord.status = NEW.
If ord.status set to PSHIP, automatically change oi.status to SHIPPED.

Codes

Value	Definition	Site
APHIS	Order sent to APHIS	Std.
CANCEL	Cancel or abort order	Std.
DONE	Completed in-house order	Std.
FORWARD	Forward order to another site	Std.
HOLD	Hold order pending action	Std.
NEW	New order	Std.
PENDING	Order pending	Std.
PSHIP	Partial shipment	Std.
SHIPPED	Order shipped	Std.
SPLIT	Order split into sub-orders	Std.

Completed flag (done)

Characteristics

CHAR(1), Optional, Software supplied, Coded

Definition

A code to indicate if the order is complete or not.

Rules

Standard codes. Uppercase.
If status = APHIS, done = P.
If status = CANCEL, SHIPPED or DONE, done = Y.
If status = any other code (non-terminal), done = N.

Codes

Value	Definition	Site
N	Whole order is not done	Std.
P	Order done at site and sent to APHIS	Std.
Y	Whole order is done	Std.

Code Comments

P	Pending phytosanitary certificate

Date acted (acted)

Characteristics

DATE, Optional

Definition

The date of the current order status. This date changes whenever the status field is updated. A history of status changes are stored in the order action (oact) table.

Rules

Must be a valid date since 1950.
On insert: if null and status = NEW, then if ordered not null, set acted = ordered, else set acted = system date.

Order source (source)

Characteristics

NUMBER(8), Optional

Definition

Internal cooperator identifier to show who provided the material for the order.

Rules

Foreign key. Link to coop table.
If ortype = RQ, source required.

Requestor (orderer)

Characteristics

NUMBER(8), Optional

Definition

The internal cooperator identifier of the person or organization who requested the germplasm or information. It is automatically copied from the final destination (final). Change this field only when an order is requested by a person or organization different from the final destination (embassy).

Rules

Foreign key. Link to coop table.
On insert: if null, set orderer = final.

Ship through (shipto)

Characteristics

NUMBER(8), Optional

Definition

The name and address of the person or organization immediately receiving the order from the site. It is automatically copied from the final destination (final). Change this field only when the order is sent to a location (APHIS, embassy) different from the final destination.

Rules

Foreign key. Link to coop table.
On insert: if null, set shipto = final.

Final destination (final)

Characteristics

NUMBER(8), Required

Definition

The name and address of the final recipient of the germplasm or information. This person or organization is automatically copied to the orderer and shipto fields. If the order came from a secondary source (embassy, international organization etc.) then enter that source into the orderer field. If the immediate shipping address is not the final destination (APHIS or embassy) then enter that address into the shipto field. If there are no secondary requestor or shipping addresses then leave orderer and shipto equal to final.

Rules

Foreign key. Link to coop table.
On insert: if null, set final = orderer.

Requestor reference (reqref)

Characteristics

VARCHAR2(10), Optional

Definition

Requestor's reference number or invoice to show how the order was obtained.

Supply low (supplylow)

Characteristics

CHAR(1), Optional

Definition

A flag ('X') to indicate if low inventory is to be included or excluded.

Rules

Value = X. User supplied and maintained.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the order, entered by the site.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Request text (request)

Characteristics
VARCHAR2(900), Optional
Definition
A textual interpretation of the order, entered by the requestor or site. Individual items in the order are contained in the order item (oi) table.

Order activity log table (OACT)

Definition
Table to track the progress of an order as it changes status from new to completed. Orders can be completely filled, partially shipped, forwarded, split or canceled.
Rules
A site can add, update or delete oact records for only their ord records. DBMU can add, update or delete oact records for another site.
Constraint
Primary key
Column: oactno.
Foreign key
Column: orno. References table ORD (orno).
Column: site. References table MAIN.SITE (site).

Order status number (oactno)

Characteristics
NUMBER(8), Required, Software supplied
Definition
The unique sequence number for the order action.

Rules

Primary key. Unique sequence number. Cannot be updated.

Order action code (action)

Characteristics

VARCHAR2(10), Required, Coded

Definition

The type of action taken on the order.

Rules

Site codes. Uppercase. Cannot be updated.

Codes

Value	Definition	Site
APHIS	Order sent to APHIS	Std.
CANCEL	Cancel or abort order	Std.
DONE	Completed in-house order	Std.
FORWARD	Forward order to another site	Std.
HOLD	Hold order pending action	Std.
NEW	New order	Std.
PENDING	Order pending	Std.
PSHIP	Partial shipment	Std.
SHIPPED	Order shipped	Std.
SPLIT	Order split into sub-orders	Std.

Date acted (acted)

Characteristics

DATE, Required, Default = Current date

Definition

Date of the order action.

Rules

Must be a valid date since 1950.

On insert: if null, set acted = system date.

If action <> CANCEL, SHIPPED, DONE, or APHIS, acted can be updated.

Action identifier (actid)

Characteristics

VARCHAR2(40), Optional

Definition

Any identifier associated with this action (for example, permit or certificate).

Order number (orno)

Characteristics

NUMBER(8), Required

Definition

The order number of the action.

Rules

Foreign key. Link to ord table. Cannot be updated.
If ord record deleted, oact records automatically deleted.

Update site (site)

Characteristics

VARCHAR2(8), Optional

Definition

The site responsible for the order status record.

Rules

Foreign key. Link to site table. Uppercase.
Cannot be updated.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the history of the order.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Order item table (OI)

Definition

Table of the specific items included in the order. For tracking purposes, it is preferable to enter inventory or accession identifiers into this table. Items not represented by accession records should only be added when the items are not part of the normal site collection. This table is used for tracking all germplasm movement.

Rules

A site can add, update or delete oi records for only their ord records. DBMU can add, update or delete oi records for another site.

Constraint

Primary key

Columns: orno, oino.

Foreign key

Column: acid. References table ACC (acid).
Column: ivid. References table IV (ivid).
Column: orno. References table ORD (orno).
Column: cno. References table COOP (cno).
Column: taxno. References table TAX (taxno).

Other indexes

Non-unique on column: cno.

Non-unique on column: ivid.

Non-unique on columns: item, orno.

Order number (orno)

Characteristics

NUMBER(8), Required

Definition

The order number to which the items belong.

Rules

Foreign key. Link to ord table. Cannot be updated.
If ord record deleted, oi records automatically deleted.

Order item number (oino)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The number assigned to each order item.

Rules

Values >= 0.

Order item identifier (item)

Characteristics

VARCHAR2(40), Optional

Definition

The original identifier or name of the item.

Quantity (quant)

Characteristics

NUMBER(), Optional

Definition

The quantity of the item in the order.

Rules

On insert: if null and ivid not null, set quant = iv. dquant.

Measurment unit (units)

Characteristics

CHAR(2), Optional, Coded

Definition

The units for the quantity of the order item.

Rules

Conditional. Standard codes. Lowercase.

On insert: if null and quant not null, set units = iv.dunits.

Codes

Value	Definition	Site
ct	count	Std.
cu	cuttings	Std.
gm	gram	Std.
kc	count x 1000	Std.
kg	kilograms	Std.
mg	milligrams	Std.
ng	nanograms	Std.
pk	packet	Std.
ug	micrograms	Std.

Distribution form (dform)

Characteristics

CHAR(2), Optional, Coded

Definition

The propagule form of the order item. If an inventory sample exists, its distribution form is automatically copied here. Change this field if a different form is distributed.

Rules

Standard codes. Uppercase.
On insert: if null and ivid not null, set dform = iv.dform.

Codes

Value	Definition	Site
BD	Budwood	Std.
BL	Bulb	Std.
CM	Corm	Std.
CT	Cutting	Std.
DN	DNA sample	Std.
ER	Ear	Std.
FR	Fruit	Std.
GS	Grafted Seedling	Std.
HE	Herbarium specimen	Std.
IO	Information Only	Std.
IV	In-vitro	Std.
LV	Leaves	Std.
MF	Maternal flowers	Std.
MS	Meristem	Std.
PL	Plant	Std.
PO	Pollen	Std.
PR	Primers	Std.
RH	Rhizome	Std.
RN	RNA sample	Std.
RT	Root	Std.
SC	Scion	Std.
SD	Seed	Std.
SG	Seedling	Std.
SP	Spore	Std.
ST	Stolon	Std.
TC	Tissue culture	Std.
TU	Tuber	Std.

Restriction (rest)

Characteristics

VARCHAR2(10), Optional, Software supplied, Coded

Definition

Any restriction or intellectual property rights associated with the item.

Rules

Standard codes. Uppercase.
Code priority:
1. NO-ACC (no accession)
2. QUAR (in quarantine)
3. IPR (protected by intellectual property rights)
4. MTA (under the material transfer agreement)

If acc.received > 12/31/1993, set rest = MTA.

5. NARCOTIC, RARE, WEED (taxonomic restrictions in tax.rest)
6. NO-INV (no inventory
7. iv.status (any code but AVAIL)

If acc.received > 12/31/1993, set rest = MTA.

Codes

Value	Definition	Site
01/		COT
????		NR6
ARCH	Archived inventory	W6
AVAIL	Available	Std.
Avai		DAV
BACK	In-Vitro backup plant	COR
BACKUP	all of the inventory sent to NSSL	W6
BULK	Bulked into a new lot with others	NC7
BULK	Large sample lots, 2-1000 times normal	W6
CHEC		DAV
CHECK	Check variety	NC7
CLOS	Accession discontinued	COR
CLOSE	Accession discontinued	COR
CLOSED	Accession discontinued	COR
COUNTLESS	Needs to be counted or weighted	W6
CR	Conditional Release	PGQO
CRYO		NSSL
CSR	Recent Crop Sci. Registration	Std.
CURATOR	Curator says unavailable	NC7
CURAT_ATTN	Requires curator attention	NC7
Cont		NR6
DEAD	Accession is dead or destroyed	PGQO
DEAD	Dead	NE9
DEAD	Dead	GEN
DEAD	Dead	INACTIVE
DEAD		COR
DEAD		DAV
DEAD		NA
DEL.		DAV
DESTROYED	Accession was destroyed	PGQO
DISCARD	Discard	NE9
DISCARD	Discard	GEN
DISCARD	Discarded	NC7
DISCARD		W6
DORMANT	Dormant lot	NC7
DUPE		SOY
DUPL		COR
DUPLICATE	Duplicate	GEN
DUPLICATE	Duplicate to another accession	NE9
DUPLICATE		W6
ERR		COR
ES	Plant has established	PGQO
EXHA	Seed exhausted when regenerating	W6
EXHA		S9
EXPERIMENT	Experimental lot	NC7

FLAW		S9
FSLR	First seed lot received. Not original!	NC7
GNST	Genetic Stock material	NSSL
HERE	Inventory material is on-site	PGQO
HOLD	hold inventory sample for futher clarifn	W6
ID		COR
ID?		COR
IDX		COR
IMMATURE	not available for distribution	NA
IN P		DAV
IN TESTING	Currently in quarantine testing	PGQO
INACTIVE	Accession/Inventory no longer available	PGQO
INACTIVE	Inactive lot	NC7
INVI		DAV
INVIABLE	Not viable	NC7
IPR	Accession has property rights	Std.
In P		DAV
In p		DAV
Infe		DAV
LOST		DAV
LOW	Low inventory	Std.
LOWGERM	Low germination	NC7
LOWGERM	Low germination	W6
LOWPOP	Low population	NC7
LOWPOP	Low population	W6
LOWQT	QT low, but iv.onhand above iv.dcritical	W6
Lost		DAV
MISL		DAV
MIX		SOY
MTA	Material Transfer Agreement needed	Std.
Misl		DAV
NA	No longer available	NE9
NA	Not available	W6
NA		GEN
NA		GSPI
NARCOTIC	Narcotic	Std.
NEEDSGERM	Needs germination test	NC7
NEW	Newly received. Not yet counted.	NC7
NEW	Recently received	PGQO
NEW		MIA
NEW		SOY
NO-ACC	Accession does not exist	Std.
NO-INV	Inventory does not exist	Std.
NOGERM	Did not germinate	W6
NOHARV	No harvest made for a number of reasons	NC7
NON-HARDY	Not cold hardy; partial or total dieback	NA
NONE	No lot present	NC7
NONE		SOY
NOPL		DAV
NOT	Not available but alive	DAV
NOT		NSSL
NOT VIABLE	No germination	NA
NOT-TRUE	Not True	INACTIVE
NOT-TRUE	Not true to type	NE9
NOT-TRUE		GEN
NP		GEN
NR		GEN

NT		GEN
NULL	Null	W6
NULL	Null	GEN
NULL	Null	GSPI
NULL		S9
OPENPOL	Open pollinated increase	W6
ORIG	Original lot received	W6
ORIG		S9
ORIG		GSPI
ORIGINAL	Original lot received	NC7
PARENT	parents of the seed received	W6
PASSPORT	Passport data incomplete	NC7
PAT	Patented material	COR
PATENT	Patented material	COR
PL		SOY
PLANTED	Pending. Between planting and STORE.	NC7
PLANTED	Planted for regeneration	W6
PLANTED		GSPI
POSS		DAV
PR	Provisional release	PGQO
PR-QUAR	Sample is on provisional release, NA	GEN
PREGERM	pregermination stage	NA
PROHIBITED		NA
PROP		COR
PROP		DAV
PROP		HILO
PURITY	Purity is in question	NC7
PVP		COT
PVP		S9
PVPO		NSGC
Poss		DAV
QUAR	Accession in quarantine	Std.
R	Released, see comment.	PGQO
RARE	Rare or Endangered	Std.
RECO		COR
REFERENCE	Reference lot	NC7
REGEN	Lot used for regeneration	NE9
REGEN	Lot used for regeneration	W6
REID	Review identification	NC7
RELEASED	Accession released from quarantine	PGQO
REL_UNCO	Uncoditional Release	PGQO
REMOVED	Removed	NE9
REMOVED	Removed	GEN
REMOVED	Removed from collection	INACTIVE
REOR		COR
REPLACED	Newer sampled replaced old one	W6
REPLACED		GSPI
RES		NSGC
REST		DAV
REST		S9
RO	Released other subclone	PGQO
RPL		SOY
RS97	Rootstock 1997	GEN
RS98	Rootstock 1998	GEN
SEED		DAV
SMAL	Plant too small to distribute cuttings	COR
SMALL	Plant too small to distribute cuttings	COR

STORE	Storage pending	NC7
Seed		DAV
THERAPY	Heat or cold therapy or sent to TC	PGQO
TRAN		DAV
TRAN		S9
TRAN		GEN
TRANSFERED	Transfered lot	NC7
TRANSFERED	Transfered lot	FLAX
TREATED	Treated chemically	NC7
TREATED	seed has been treated	W6
Tetr		DAV
Too		MIA
UNKN	Status unknown	W6
UNKN		DAV
UNSU		DAV
UR	Unconditional Release	PGQO
Unkn		DAV
Unsu		DAV
VARI		SOY
VIR		COR
VIR?		COR
WEAK	Deficient plant vigor	COR
WEAK	Weak	NE9
WEAK	Weak	INACTIVE
WEAK	Weak	GEN
WEED	Noxious weed	Std.
WEED		COR
WEED		NSGC
Weak	Deficient plant vigor	COR
Young	plants are too young to distribute	NA
d-r		GEN
dead		NA
dead		GEN
disc		GEN
dup		GEN
mix		NR6
newl		MIA
null		GEN
prop		COR
r-du		GEN
rem		GEN
rest		S9
sick		GEN
test		NE9
tran		S9
~r		COT

Code Comments

ARCH	Archived in storage for low and/or no usage
BACKUP	grown only to send to NSSL, or sending all the seed to NSSL
BULK	Lot has no seed because seed has been bulked with other lots to form a bulked lot.
BULK	Example: the Medic's with 1/2 gallon to 15 gallons of seed

CHECK	Lot of accession normally used at site just as a check in plantings.
CURATOR	Lot is unavailable at curator's discretion. Reason may be stated in status comment.
CURAT_ATTN	This lot needs curator examination to determine proper status. Seed storage, order processing, and GRIN data processing will have difficulty working with this lot until the status is determined.
DISCARD	See Phil Forsline
DISCARD	Lot is documented as being completely discarded.
DORMANT	Lot which is currently unavailable because it is excessively dormant at this time.
EXPERIMENT	Lot to be used for experimental uses.
FSLR	Not Available due to low amount received. This should have a first lot igmrcd.
GNST	Not Available
INACTIVE	Lot which is attached to an INACTIVE accession but may not be DEAD. Also,lots of accessions which are to be inactivated in the near future would have this designation.
INVIABLE	Unable to germinate any seeds
LOWGERM	Unavailable because germination is low.
LOWGERM	Unavailable because germination is low
LOWPOP	Unavailable because the population size sampled was too small.
LOWPOP	Unavailable
NEEDSGERM	Unavailable until germination test performed.
NOHARV	Harvest was not made for some reason such as a failure to germinate, no seed set, sterile plants, plants died due to some reason, etc
NONE	Lot is not in collection for some undocumented reason.
OPENPOL	unavailable
ORIGINAL	Seed which was collected or if unknown assumed to be collected.
PARENT	Use when we do not get Original seed, but want to track the generation from collected seed
PASSPORT	No available until passport data has been reviewed by curator.
PR-QUAR	"Q" numbered accession
PURITY	Genetic purity is in question. Either lot is a mixture of seed types or cross pollination may have occurred.
REFERENCE	Lot used for comparison to determine purity of future regenerations or to be used if purity compromised.
REID	Inventory needs taxonomic reidentification or identifier review before being made available.
REPLACED	The regenerated sample replaces the old sample. Old sample is historic.
RO	Released other subclone as distributable sample
RS97	Phil Forsline
RS98	Phil Forsline
STORE	Processing complete and lot ready for final storage in collection.

TRANSFERRED	Lot transfered to another NPGS site. Also lots designated to be transfered in the near future. Order items will be the verification of whether the lot has been transfered.
TRANSFERRED	Lot transfered to another NPGS site. Also lots designated to be transfered in the near future. Order items will be the verification of whether the lot has been transfered.
TREATED	Seed treated making the lot not available in some situations.

Order item status (status)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The current status of the item within the order. Each order item can have a different status.

Rules

Standard codes. Uppercase.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
CANCEL     Cancel or abort order item                Std.
HOLD       Hold order item pending action            Std.
PSHIP      Partial shipment                          Std.
SHIPPED    Ship order item                           Std.
SPLIT      Split out order item                      Std.
```

Date acted (acted)

Characteristics

DATE, Optional

Definition

The date of the current order item status. This date changes as the order item status field changes.

Rules

Must be a valid date since 1950.
If status not null and acted null, set acted = system date.

Cooperator number (cno)

Characteristics

NUMBER(8), Optional

Definition

The internal cooperator identifier indicating the person or organization who was the source of the order item.

Rules

Foreign key. Link to coop table.

Inventory identifier (ivid)

Characteristics
NUMBER(8), Optional
Definition
The internal inventory identifier used for this order item.
Rules
Foreign key. Link to inv table.
Cannot update to an invalid inv or a low inv if
supplylow = X. Can update to null.

Accession identifier (acid)

Characteristics
NUMBER(8), Optional
Definition
The internal accession identifier for this order item.
Rules
Foreign key. Link to acc table.
If ivid not null, set acid = iv.acid.

Species number (taxno)

Characteristics
NUMBER(8), Optional
Definition
The internal species identifier that indicates the taxonomy for the order item.
Rules
Foreign key. Link to tax table.

Scientific name (taxon)

Characteristics
VARCHAR2(100), Optional
Definition
The scientific name when the taxonomy is in the NPGS.
Rules
If taxno not null, set taxon = tax.taxno.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition

General comments about the order item for site use.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Taxon item table (TI)

Definition
Table of the summary of the taxonomy sent in an order.
Rules
A site can add, update or delete ti records for only their ord records. DBMU can add, update or delete ti records for another site.

Cannot add or update if oi records exist. Automatically created for orders with items when CANCEL, SHIPPED, DONE or APHIS entered in ord.status.

Constraint
Primary key
Columns: orno, taxon.
Foreign key
Column: orno. References table ORD (orno).

Column: taxno. References table TAX (taxno).

Order number (orno)

Characteristics
NUMBER(8), Required
Definition
The order number for this taxonomy summary.
Rules
Foreign key. Link to ord table. Cannot be updated.
If ord record deleted, ti records automatically deleted.

Species number (taxno)

Characteristics
NUMBER(8), Optional
Definition
The internal species identifier that indicates the taxonomy for the order.
Rules
Foreign key. Link to tax table.

Total (tally)

Characteristics
NUMBER(5), Optional
Definition
Count of the items with this taxonomy.

Scientific name (taxon)

Characteristics
VARCHAR2(100), Required
Definition
The taxonomy of one or more order items.
Rules
Software supplied if taxno not null.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comment about taxonomy.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Standards Area -- Tables Owned by PROD

Geography table (GEO)

Definition

Table of all countries and their first major political subdivisions (states, districts, provinces). Old names for countries are also in this table with pointers to current country names.

Rules

Only DBMU can add, update or delete geo records. Cannot delete a geo record if used elsewhere in the database (e.g., validgeono, coop, src, ord, etc.)

Constraint

Primary key

Column: geono.

Foreign key

Column: validgeono. References table GEO (geono).

Column: regno. References table REG (regno).

Unique key

Columns: country, state.

Other indexes

Unique on columns: iso3, st.

Non-unique on columns: isofull, statefull.

Non-unique on column: st.

Non-unique on column: state.

Geographic number (geono)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier assigned to the country/state combination.

Rules

Primary key. Unique sequence number. Can be updated unless referenced in other tables.

Valid geographic number (validgeono)

Characteristics

NUMBER(8), Optional

Definition

Geographic number for the valid name of this country.

Rules

Foreign key. Link to geo table.
If validgeono <> geono, cflag = N.

Country name (country)

Characteristics

VARCHAR2(30), Required

Definition

The short country name. Some names have been simplified from the International Standards Organization (ISO).

Example

Afghanistan
Australia

Rules

Initcap except for 'and' and 'McD'.

State name (state)

Characteristics

VARCHAR2(20), Optional

Definition

Largest political subdivision of the country, such as state, province or territory.

ISO full name (isofull)

Characteristics

VARCHAR2(100), Optional

Definition

The International Standards Organization (ISO) full name for country.

ISO short name (isoshort)

Characteristics

VARCHAR2(60), Optional

Definition

International Standards Organization (ISO) short name for the country.

Rules

Uppercase.

Full state name (statefull)

Characteristics

VARCHAR2(60), Optional

Definition

Full name for the state, will conform to the International Standards Organization (ISO) when issued.

Alpha-3 code (iso3)

Characteristics
CHAR(3), Optional
Definition
The three character code (alpha-3 code) for the country name, developed by the International Standards Organization (ISO).
Rules
Uppercase.

Alpha-2 code (iso2)

Characteristics
CHAR(2), Optional
Definition
The two character code (alpha-2 code) for the country name, developed by the International Standards Organization (ISO).
Rules
Uppercase.

State name abbreviation (st)

Characteristics
CHAR(3), Optional
Definition
The postal code or other abbreviation for the state name.
Rules
Uppercase.

Valid country flag (cflag)

Characteristics
CHAR(1), Required, Coded
Definition
Code to indicate if this is a valid country.
Rules
Standard codes. Uppercase.
Codes

Value	Definition	Site
N	Not a valid country name	Std.
Y	Valid country name	Std.

Hemisphere latitude (lath)

Characteristics

CHAR(1), Optional, Coded

Definition

The latitude hemisphere containing the majority of the country/state.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
N	North hemisphere	Std.
S	South hemisphere	Std.

Hemisphere longitude (lonh)

Characteristics

CHAR(1), Optional, Coded

Definition

The longitude hemisphere containing the majority of the country/state.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
E	East hemisphere	Std.
W	West hemisphere	Std.

Region number (regno)

Characteristics

NUMBER(8), Optional

Definition

The internal region identifier for this country.

Rules

Foreign key. Link to reg table.

Date changed (changed)

Characteristics

DATE, Optional

Definition

Date that geographic name was officially changed.

Former name (oldname)

Characteristics

VARCHAR2(100), Optional

Definition

Former names when division or consolidation occurred.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about this geographic record.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Literature table (LIT)

Definition

Table of valid books and journals used in literature citations for genera, taxa, accessions, evaluations, etc. in the database. The abbreviations used should follow recognized standards either from the library field or from taxonomy.

Rules

A site can add, update or delete lit records for their site only. Only DBMU can add, update or delete lit records for another site.

Constraint

Primary key

Column: abbr.

Foreign key

Column: site. References table MAIN.SITE (site).

Reference abbreviation (abbr)

Characteristics

VARCHAR2(20), Required

Definition

The short abbreviation for this reference.

Example

Crop Sci
Agron J
Ann Bot
F Ariz

Rules

Primary key. Unique across sites. Can be updated unless referenced in other tables.

Standard abbreviation (stdabbr)

Characteristics

VARCHAR2(240), Optional

Definition

Standard abbreviation for a reference from B-H-P, Agricola or TL2.

Reference title (reftitle)

Characteristics

VARCHAR2(240), Optional

Definition

Full title of the reference.

Editor of publication (editor)

Characteristics

VARCHAR2(240), Optional

Definition

Author(s) or editor(s) of the reference.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the literature reference.

Site code (site)

Characteristics
VARCHAR2(8), Optional
Definition
The site responsible for the literature record.
Rules
Foreign key. Link to site table. Uppercase.
On insert: if null or not DBMU, set site = userid site.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

PI table (PI)

Definition

Table of years, volumes and low accession numbers for each Plant Inventory publication.

Rules

Only DBMU can add, uppdate or delete pi records.

Constraint

Primary key

Column: pivol.

Other indexes

Non-unique on column: piyear.

PI volume (pivol)

Characteristics

NUMBER(3), Required

Definition

Plant Inventory volume number.

Rules

Primary key. Unique. Cannot be updated. Values > 0.

PI year (piyear)

Characteristics

NUMBER(4), Required

Definition

The year the PI number was assigned to the Plant Inventory.

Rules

Values > 1895.

Low PI (lowpi)

Characteristics

NUMBER(7), Required

Definition

The lowest PI number in this Plant Inventory volume.

Rules

Values > 0.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Region table (REG)

Definition

Table of the phytogeographic regions for grouping political areas, according to the International Working Group on Plant Taxonomic Databases. Its primary purpose is to speed the data entry of species distributions. It may also be useful for querying the system when political boundaries are not appropriate.

Rules

Only DBMU can add, update or delete reg records.

Constraint

Primary key

Column: regno.

Unique key

Columns: area, region.

Region number (regno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique number assigned to the subcontinent (area) or region.

Rules

Primary key. Unique sequence number. Cannot be updated.
If geo.regno = reg.regno, cannot delete reg record.

Region (area)

Characteristics
VARCHAR2(20), Required
Definition
Continent or other large geographic area according to the International Working Group on Plant Taxonomic Databases (TDWG) level 1 standard.
Rules
Initcap.

Subcontinent or region (region)

Characteristics
VARCHAR2(30), Optional
Definition
A subcontinent or phyto-geographic region, according to the International Working Group on Plant Taxonomic Databases (TDWG) level 2 standard.
Rules
Initcap.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the geographic region.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Research crop table (CROP)

Definition
Table of the crop or descriptor set name for material used in an evaluation. Each set is composed of one or more taxa. One taxon can not belong to two different sets. This table will be used to bridge the general crop names within Crop Advisory Committees to formal taxonomic names.
Rules
Only DBMU can add, update or delete crop records.
Constraint
Primary key
Column: cropno.
Unique key
Column: crop.

Crop number (cropno)

Characteristics
NUMBER(8), Required, Software supplied
Definition
The unique internal identifier to indicate the descriptor set.
Rules
Primary key. Unique sequence number. Can be updated unless referenced in other tables.
If tax.cropno = crop.cropno, cannot delete crop record.

Crop name (crop)

Characteristics
VARCHAR2(20), Required
Definition
Crop name for the descriptor set.
Rules

Unique across sites. Uppercase.
Spaces are not allowed.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the descriptor set.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Taxonomy authors table (TAUT)

Definition
Table of individual names of people who have described the taxa. It is also a spelling check for data entry of new taxonomic authorities and for displaying the full names of authors since only the short version is in the taxon record.
Rules

Only DBMU can add, update or delete taut records.

Constraint

Primary key

Column: shortaut.

Other indexes

Non-unique on column: shexpaut.

Short authority name (shortaut)

Characteristics

VARCHAR2(30), Required

Definition

Short version of author names used in taxonomic authorities.

Rules

Primary key. Unique. Cannot be updated if used in taxonomic authority.

Full authority name (longaut)

Characteristics

VARCHAR2(100), Optional

Definition

Full name of author from book.

Rules

On insert: if null, set longaut = shortaut.

Authority short name with marks (smarkaut)

Characteristics

VARCHAR2(30), Optional

Definition

Short name of author with diacritical marks.

Rules

On insert: if null, set longaut = shortaut.

Authority full name with marks (lmarkaut)

Characteristics

VARCHAR2(100), Optional

Definition

Full name of author with diacritical marks.

Rules

On insert: if null, set longaut = shortaut.

Short author name (shexpaut)

Characteristics

VARCHAR2(30), Optional

Definition

Short author names with the HTML version of the diacritics.

Full author name (lgexpaut)

Characteristics

VARCHAR2(100), Optional

Definition

Full author names with the HTML version of the diacritics.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

Comments about the author, and occasionally publishing dates.

User identifier (userid)

Characteristics

VARCHAR2(10), Required, Software supplied

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Required, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Statistics Area -- Tables Owned by PROD

Database Statistics table (STATS)

Definition

Contains general statistics on the data in the database.

Other indexes

Non-unique on column: country.

Non-unique on column: family.

Non-unique on column: genus.

Non-unique on column: site.

Non-unique on column: taxon.

Site code (site)

Characteristics

VARCHAR2(8), Optional

Definition

Site responsible for the germplasm.

Scientific name (taxon)

Characteristics

VARCHAR2(100), Optional

Definition

The binomial or trinomial name of the taxon.

Genus name (genus)

Characteristics

VARCHAR2(30), Optional

Definition

Genus name for the taxon in the database.

Family name (family)

Characteristics

VARCHAR2(25), Optional

Definition

Family names ending in "aceae".

Country name (country)

Characteristics
VARCHAR2(30), Optional
Definition
Country where accession is from.

Accession count (acc_count)

Characteristics
NUMBER(5), Optional
Definition
Count of accessions.

Taxonomy Area -- Tables Owned by PROD

Common name table (CN)

Definition

Table of common names for the taxon. The most commonly used name should be listed first.

Rules

Only SBML and DBMU can add, update or delete cn records.

Constraint

Primary key

Columns: cname, taxno.

Foreign key

Column: taxno. References table TAX (taxno).

Other indexes

Non-unique on column: cname.

Non-unique on column: cnid.

Species number (taxno)

Characteristics

NUMBER(8), Required

Definition

The internal species identifier for this common name.

Rules

Foreign key. Link to tax table. Cannot be updated.
If tax record deleted, cn record automatically deleted.

Common name (cname)

Characteristics

VARCHAR2(50), Required

Definition

Common name for the taxon.

Common name source (source)

Characteristics

VARCHAR2(20), Optional

Definition

Source of the common name (e.g., literature).

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the common name.

User identifier (userid)

Characteristics
VARCHAR2(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Search identifier (cnid)

Characteristics
VARCHAR2(50), Optional, Software supplied
Definition
The plantid with all punctuation and special characters removed, then all characters converted to uppercase.

Economic uses table (USES)

Definition

Table of the economic uses of the taxa. It follows the standards set by the International Working Group on Plant Taxonomic Databases (TDWG).

Rules

Only SBML and DBMU can add, update or delete uses records.

Constraint

Primary key

Columns: taxno, taxuse.

Foreign key

Column: taxno. References table TAX (taxno).

Other indexes

Non-unique on column: taxuse.

Species number (taxno)

Characteristics

NUMBER(8), Required

Definition

The internal species identifier that indicates the taxonomy for the economic use.

Rules

Foreign key. Link to tax table. Cannot be updated.
If tax record deleted, uses record automatically deleted.

Economic usage (taxuse)

Characteristics

VARCHAR2(10), Required, Coded

Definition

Economic usage from the International Working Group on Plant Taxonomic Databases (TDWG).

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
ADDITIVE	Food additives	Std.
ALTHOST	Harmful organism host	Std.
BEE	Bee plants	Std.
CITESI	CITES Appendix I	Std.
CITESII	CITES Appendix II	Std.
CPC	Center for Plant Conservation listed	Std.
ENVIRON	Environmental	Std.
FOOD	Human food	Std.
FORAGE	Animal food	Std.
FUEL	Fuels	Std.
FWE	Fish & Wildlife Endangered species	Std.
FWT	Fish & Wildlife Threatened species	Std.

```
GENETIC    Gene sources                          Std.
HOST       Invertebrate food                     Std.
MATERIAL   Materials                             Std.
MEDICINE   Medicines                             Std.
PESTICIDE  Non-vertebrate poisons                Std.
POISON     Vertebrate poisons                    Std.
SOCIAL     Social                                Std.
WEED       Weed                                  Std.
```

Code Comments

BEE	Pollen or nectar sources for honey production.
ENVIRON	Including intercrops, nursecrops, ornamentals, shade plants, windbreaks, soil improvers, plants for revegetation and erosion control, waste water purifiers and indicators of the presense of metals, pollution, underground water, etc.
FOOD	Including beverages and food additives.
FORAGE	Including forage and fodder.
FUEL	Including wood, charcoal, petroleum substitutes, fuel/alcohols, etc.
GENETIC	Including the wild relatives of major crops which may possess useful qualities, such as disease resistance, cold hardiness, etc., of possible value in crop breeding programs.
HOST	Including hosts to useful organisms such as silkworms, lac insects and edible grubs, and hosts of pests and diseases of major crops.
MATERIAL	Including woods, fibers, cork, cane, tannins, latex, resins, gums, waxes, oils, lipids, etc. and products made from these.
MEDICINE	Both human and veterinary medicines.
POISON	Including useful poisons (molluscicides, insecticides, fish poisons etc.) and accidental poisons (to livestock and humans, etc.).
SOCIAL	Plants used for social purposes not definable as food or medicines, including masticatories, smoking materials, narcotics, hallucinogens and psychoactive drugs, contraceptives and abortifacients, and plants with ritual/religious values.
WEED	Weeds which cause losses to crops and livestock production.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

This field contains general comments about the economic use of this species.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Category of uses (usetype)

Characteristics

VARCHAR2(250), Optional, Coded

Definition

Category of uses.

Family table (FAM)

Definition

Table of valid family names and other levels above genus for look-up on data entry and edit checking. It can also be used for constructing queries but would be less appropriate than the family name in the genus record.

Rules

Only SBML and DBMU can add, update or delete fam records.

Constraint

Primary key

Column: famno.

Foreign key

Column: validfamno. References table FAM (famno).

Unique key

Columns: family, famauthor, subfamily, tribe, subtribe.

Family number (famno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier for the classification above the genus level. It serves as a link between the family table and other tables in the database.

Rules

Primary key. Unique sequence number. Can be updated unless referenced in other tables.

Valid family number (validfamno)

Characteristics

NUMBER(8), Optional

Definition

Family number for the valid family if this is a synonym.

Rules

Foreign key. Link to fam table.
If validfamno = famno, family = valid family.
If validfamno <> famno, family = synonym.

Family name (family)

Characteristics

VARCHAR2(25), Required

Definition

Family names ending in "aceae".

Example

Asteraceae
Apiaceae

Rules

Initcap.

Family authority (famauthor)

Characteristics

VARCHAR2(100), Optional

Definition

Authority of the family.

Rules

Each author name checked against taut table.

Alternate family (altfamily)

Characteristics

VARCHAR2(25), Optional, Software supplied

Definition

Conserved alternate family name.

Example

Compositae
Umbelliferae

Rules

Initcap.

Subfamily division (subfamily)

Characteristics

VARCHAR2(25), Optional

Definition

Subfamily division of the family.

Rules

Initcap.

Tribe division (tribe)

Characteristics

VARCHAR2(25), Optional

Definition

Tribe division of the family.

Rules

Initcap. Must have subfamily to add tribe.

Subtribe division (subtribe)

Characteristics

VARCHAR2(25), Optional

Definition

Subtribe division of the family.

Rules

Initcap. Must have tribe to add subtribe.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the family information.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Genus table (GN)

Definition

Table of genera of both accepted names and synonyms. It also includes all classification levels between the genus and species levels for grouping taxa. Intergeneric hybrids are flagged in a separate field so that the genus names sort properly. The gno field is the primary key and is applied to a complete classification from genus down to subseries.

Rules

Only SBML and DBMU can add, update or delete gn records.

Unique key = genus, gauthor, subgenus, section, series, subseries.

Constraint

Primary key

Column: gno.

Foreign key

Column: famno. References table FAM (famno).
Column: validgno. References table GN (gno).

Unique key

Columns: genus, gauthor, subgenus, section, series, subseries.

Other indexes

Non-unique on column: cname.

Genus number (gno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier assigned to genus, and subgeneric levels. It serves as a link between the genus table and other tables in the database.

Rules

Primary key. Unique sequence number. Cannot be updated.

Valid genus number (validgno)

Characteristics

NUMBER(8), Optional

Definition

Genus number for valid genus if this is a synonym.

Rules

Foreign key. Link to gn table.
If validgno = gno, genus = valid genus.
If validgno <> gno, genus = synonym.

Qualifier code (qual)

Characteristics

CHAR(2), Optional, Coded

Definition

Code qualifying the genus name if the name is a synonym.

Rules

Standard codes. Uppercase.
On insert or update: if validgno = gno, qual = ~ or null.
On insert or update: if validgno <> gno and qual is null, set qual to '='.

Codes

Value	Definition	Site
~	Possibly a synonym	Std.
=	Is a synonym	Std.
=~	Usually considered a synonym	Std.
?	Tentative synonym	Std.
~		Std.

Genus hybrid flag (ghybrid)

Characteristics

CHAR(1), Optional, Coded

Definition

A code to indicate this is a hybrid (X) or root cross (+).

Rules

Standard codes. Uppercase.

Codes

```
Value      Definition                                Site
=====      ==========                                ====
+          Graft-chimera hybrid                      Std.
X          Intergeneric hybrid                       Std.
```

Code Comments

+	Genus is a graft-chimera hybrid.
X	Genus is an intergeneric hybrid.

Genus name (genus)

Characteristics

VARCHAR2(30), Required

Definition

Genus name for the taxon in the database.

Example

Triticum
Zea

Rules

Initcap.

Genus authority (gauthor)

Characteristics

VARCHAR2(100), Optional

Definition

Authority of the genus.

Rules

Each author name checked against taut table (future).

Subgenus name (subgenus)

Characteristics

VARCHAR2(30), Optional

Definition

Subgenus name for a genus.

Rules

Initcap.

Section name (section)

Characteristics
VARCHAR2(30), Optional
Definition
The section name for a genus.
Rules
Initcap. Must have subgenus to add section.

Series name (series)

Characteristics
VARCHAR2(30), Optional
Definition
The series name for a genus.
Rules
Initcap. Must have section to add series.

Subseries name (subseries)

Characteristics
VARCHAR2(30), Optional
Definition
The subseries name for a genus.
Rules
Initcap. Must have series to add subseries.

Family number (famno)

Characteristics
NUMBER(8), Optional
Definition
The internal identifier for the classification above the genus level.
Rules
Foreign key. Link to fam table.

Alternate family (othfamily)

Characteristics
VARCHAR2(100), Optional
Definition
Alternate families in which the genus has been placed.
Rules
Initcap. Must be one or more families from fam table (may be synonyms).

Common name (cname)

Characteristics
VARCHAR2(30), Optional
Definition
Common name for the genus.
Rules
Initcap.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the genus name.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Genus citation table (GCIT)

Definition

Table of literature citations of generic names. It matches the species citation table in structure but links to the genus table instead of the taxon table.

Rules

Only SBML and DBMU can add, update or delete gcit records.

Minimum data to add a gcit record is one of these fields: abbr, cittitle.

Constraint

Primary key

Column: citno.

Foreign key

Column: gno. References table GN (gno).

Column: abbr. References table LIT (abbr).

Citation number (citno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier assigned to the genus citation. It serves as a link between the genus citation table and other tables in the database.

Rules

Primary key. Unique sequence number. Cannot be updated.

Genus number (gno)

Characteristics

NUMBER(8), Required

Definition

The internal genus identifier for the citation.

Rules

Foreign key. Link to gn table.

If gn record deleted, gcit record automatically deleted.

Reference abbreviation (abbr)

Characteristics

VARCHAR2(20), Optional

Definition

The short abbreviation for this reference.

Example

Crop Sci

Agron J

Ann Bot

F Ariz

Rules

Foreign key. Link to lit table.

Citation title (cittitle)

Characteristics
VARCHAR2(240), Optional
Definition
The title of the article or chapter.
Example
Registration of ICGV 86564 Peanut Germplasm
Registration of Bayshore Smooth Cordgrass
Inheritance of Adult-Plant Resistance to Powdery Mildew in Knox 62 and Massey Winter Wheats
Systematics, Diversity, and Germplasm
Rules
cittitle <> lit.reftitle or lit.stdabbr.

Author of publication (author)

Characteristics
VARCHAR2(240), Optional
Definition
Author(s) of the article or chapter.
Example
R.R. Kalton, P. Richardson
P.E. Lake

Citation year (cityr)

Characteristics
NUMBER(4), Optional
Definition
The year the citation was published or made available.
Rules
Values between 1600 and (current year + 1).

Citation reference (citref)

Characteristics
VARCHAR2(60), Optional
Definition
The citation (volume, page, etc.) within the journal or book.
Example
34(1):300
18(10):920
pp. 3-11

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comments about the genus citation.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Species distribution table (DIST)

Definition
Table of species distributions. It serves as a link structure between the taxon table and the geo table.
Rules
Only SBML can add, update or delete dist records.
Constraint
Primary key
Column: distno.

Foreign key

Column: geono. References table GEO (geono).
Column: taxno. References table TAX (taxno).

Species distributions number (distno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier assigned to the distribution.

Rules

Primary key. Unique sequence number. Cannot be updated.

Species number (taxno)

Characteristics

NUMBER(8), Required

Definition

The internal species identifier that indicates the taxonomy for the species distribution.

Rules

Foreign key. Link to tax table.
If tax record deleted, dist record automatically deleted.

Geographic number (geono)

Characteristics

NUMBER(8), Optional

Definition

The internal geographic identifier to indicate the species range.

Rules

Foreign key. Link to geo table.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comments about the distribution of the taxon in the country.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Taxonomic web links table (TURL)

Definition

Table of URL links to images or pages about a taxonomic name.

Constraint

Primary key

Column: turlno.

Foreign key

Column: famno. Delete rule Cascade. References table FAM (famno).
Column: gno. Delete rule Cascade. References table GN (gno).
Column: site. References table MAIN.SITE (site).
Column: taxno. Delete rule Cascade. References table TAX (taxno).

Taxonomic URL number (turlno)

Characteristics

NUMBER(8), Required

Definition

Taxonomic URL number.

URL type (urltype)

Characteristics

VARCHAR2(10), Required, Coded

Definition

Code for the type of page.

Codes

Value	Definition	Site
IMAGE	Image link	SBML
LINK	Http link	Std.

Family number (famno)

Characteristics

NUMBER(8), Required

Definition

Internal identifier for the family.

Genus number (gno)

Characteristics

NUMBER(8), Optional

Definition

Internal identifier for the genus.

Taxonomic number (taxno)

Characteristics

NUMBER(8), Optional

Definition

Internal identifier for the taxon.

Caption (caption)

Characteristics

VARCHAR2(60), Optional

Definition

Caption to display if no image is shown.

URL (url)

Characteristics

VARCHAR2(100), Required

Definition

Full URL address of the page.

Site (site)

Characteristics

VARCHAR2(8), Required

Definition

The site responsible for the Taxonomic URL record.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comment about the link.

User identifier (userid)

Characteristics

VARCHAR2(10), Required, Software supplied

Definition

Person who entered or last updated the record.

Date created (created)

Characteristics

DATE, Required

Definition

The date the record was entered into the database.

Date modified (modified)

Characteristics

DATE, Optional

Definition

The date the record was last updated.

Taxonomy table (TAX)

Definition

Table of taxa, for both currently accepted names and synonyms. All levels from species to forma are covered by this table. Cultivars are in the accession level (acc) table. Synonyms refer to accepted names in the same table through the validtaxno column. The genus name is provided to reduce the number of records that need to be linked to get information, likewise the shortest complete name for the taxon is found in the taxon column.

Rules

A site can update sitecmt field only. SBML and DBMU can add, update or delete tax records.

If taxon changed to a synonym, automatically update accessions to new valid taxon and create al records where action = NOM-CHANGE.

Constraint
Primary key
Column: taxno.
Foreign key
Column: cno. References table COOP (cno).
Column: cropno. References table CROP (cropno).
Column: gno. References table GN (gno).
Column: psite1. References table MAIN.SITE (site).
Column: psite2. References table MAIN.SITE (site).
Column: validtaxno. References table TAX (taxno).
Unique key
Columns: taxon, taxauthor.

Species number (taxno)

Characteristics
NUMBER(8), Required, Software supplied
Definition
The unique internal identifier for the taxon/species.
Example
40544
100001
Rules
Primary key. Unique sequence number. Cannot be updated.

Valid species number (validtaxno)

Characteristics
NUMBER(8), Optional
Definition
Species identifier for the valid taxon if this is a synonym.
Rules
Foreign key. Link to tax table.
If validtaxno = taxno, taxon = valid name.
If validtaxno <> taxno, taxon = synonym.

Interspecific hybrid flag (shybrid)

Characteristics
CHAR(1), Optional, Coded
Definition
A code to show that this taxon is an interspecific hybrid.
Rules

Standard codes. Lowercase.

Codes

Value	Definition	Site
x	Interspecific hybrid	Std.

Specific epithet (species)

Characteristics

VARCHAR2(30), Required

Definition

The specific epithet of the scientific name.

Example

aestivum

mays

Rules

Lowercase.

If species name starts with a hybrid flag, move to hybrid field and strip from name.

Species author (sauthor)

Characteristics

VARCHAR2(100), Optional

Definition

The authority for the specific epithet.

Example

L.

Boiss.

Rules

Each author name checked against taut table.

Intraspecific hybrid flag (ssphybrid)

Characteristics

CHAR(1), Optional, Coded

Definition

A code to indicate this taxon is an intraspecific hybrid.

Rules

Standard codes. Lowercase.

Must have subsp to add ssphybrid.

Codes

Value	Definition	Site
n	Intraspecific hybrid (nothosubspecies)	Std.

Subspecific epithet (subsp)

Characteristics
VARCHAR2(30), Optional
Definition
The subspecific epithet for the taxon.
Example
mays
mexicana
Rules
Lowercase.

Subspecies authority (sspauthor)

Characteristics
VARCHAR2(100), Optional
Definition
The authority for the subspecific epithet.
Example
(L.) I. Ferg.
(Willd.) P. Silva
Waldron
Rules
Each author name checked against taut table (future).

Intervarietal hybrid flag (varhybrid)

Characteristics
CHAR(1), Optional, Coded
Definition
A code to indicate this taxon is an intervarietal hybrid.
Rules
Standard codes. Lowercase.
Must have var to add varhybrid.
Codes

Value	Definition	Site
n	Intervarietal hybrid (nothovariety)	Std.

Botanical variety (var)

Characteristics
VARCHAR2(30), Optional
Definition
The botanical variety of the species.
Example
hirsuta
glaucus
Rules

Lowercase.

Varietal authority (varauthor)

Characteristics
VARCHAR2(100), Optional
Definition
The authority for the varietal epithet.
Example
Kohler
(Bertoni) L. B. Smith
Rules
Each author name checked against taut table (future).

Subvarietal hybrid flag (svhybrid)

Characteristics
CHAR(1), Optional, Coded
Definition
A code to indicate that this taxon is a subvarietal hybrid.
Rules
Standard codes. Lowercase.
Must have subvar to add svhybrid.
Codes

Value	Definition	Site
p	Prol.	Std.
r	Race	Std.
t		Std.

Subvarietal epithet (subvar)

Characteristics
VARCHAR2(30), Optional
Definition
The subvarietal epithet for the taxon.
Rules
Lowercase.

Subvarietal epithet authority (svauthor)

Characteristics
VARCHAR2(100), Optional
Definition
The authority for the subvarietal epithet.
Rules
Each author name checked against taut table (future).

Forma or lower rank code (fhybrid)

Characteristics

CHAR(1), Optional, Coded

Definition

A code to indicate this taxon is an interforma hybrid.

Rules

Standard codes. Lowercase.

Must have forma to add fhybrid.

Codes

Value	Definition	Site
n	Interforma hybrid (nothoforma)	Std.

Forma or low rank (forma)

Characteristics

VARCHAR2(30), Optional

Definition

The botanical form of the species, or lower rank (e.g., race), often a local variant caused by something in the environment.

Example

nana

pendula

Rules

Lowercase.

Forma authority (fauthor)

Characteristics

VARCHAR2(100), Optional

Definition

The authority for the forma epithet.

Example

Nakai

(Carr.) Rehder

Rules

Each author name checked against taut table (future).

Genus record number (gno)

Characteristics

NUMBER(8), Required

Definition

The internal genus identifier to indicate the full classification of the taxon.

Rules

Foreign key. Link to gn table.

Crop number (cropno)

Characteristics
NUMBER(8), Optional
Definition
The internal crop identifier for this taxonomy.
Rules
Foreign key. Link to crop table.

First priority site (psite1)

Characteristics
VARCHAR2(8), Optional
Definition
The first priority site in the NPGS.
Rules
Foreign key. Link to site table.

Second priority site (psite2)

Characteristics
VARCHAR2(8), Optional
Definition
The second priority site in the NPGS.
Rules
Foreign key. Link to site table.
Move psite2 to psite1 if psite1 null.

Restriction (rest)

Characteristics
VARCHAR2(10), Optional, Coded
Definition
Restrictions on the taxon that may affect distribution.
Rules
Standard codes. Uppercase.
Codes

Value	Definition	Site
NARCOTIC	Used to produce narcotics	Std.
RARE	Rare or endangered	Std.
WEED	Noxious weed	Std.

Life form (lifeform)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The normal life form of the species.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
ANN-BI-PER	Annual/Biennial and/or Perennial	Std.
ANN-BIE	Annual and/or Biennial	Std.
ANN-PER	Annual and/or Perennial	Std.
ANNUAL	Annual	Std.
BIE-PER	Biennial and/or Perennial	Std.
BIENNIAL	Biennial	Std.
PERENNIAL	Perennial	Std.
SHRUB	Shrub	Std.
TREE	Tree	Std.
VINE	Vine	Std.

Fertilization (fert)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

The type of fertilization that is common in this species.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
INSECT	Insect pollination	Std.
OTHER	Other pollination methods	Std.
PARTIAL	Partial pollination	Std.
SELF	Self pollination	Std.
WIND	Wind pollination	Std.

Questionable name flag (pending)

Characteristics

CHAR(1), Optional

Definition

A flag ('X') to indicate that the name is in question.

Rules

Value = X.

User supplied and maintained.

Qualifier code (qual)

Characteristics

VARCHAR2(6), Optional, Coded

Definition

Code(s) for synonyms to show what type it is.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
X	Nomen dubious	Std.
X	Nomen illegit	Std.
X	Nomen nudum	Std.
=	Synonym - complete replacement	Std.
=~	Synonym - some doubt	Std.
B	Basionym	Std.
B X	Basionym - nomen dubious	Std.
B X	Basionym - nomen illegit	Std.
BX	Basionym - nomen nudum	Std.
S	Synonym	Std.
S X	Synonym - nomen dubious	Std.
S X	Synonym - nomen illegit	Std.
SX	Synonym - nomen nudum	Std.
SXX	Synonym - nomen nudum + illegit	Std.
~	Synonym - not consensus	Std.

Cooperator number (cno)

Characteristics

NUMBER(8), Optional

Definition

The internal cooperator identifier indicating the person who verified this name.

Rules

Foreign key. Link to coop table.

Date verified (verified)

Characteristics

DATE, Optional

Definition

The date the name was verified.

Rules

Must be a valid date.

Scientific name (taxon)

Characteristics

VARCHAR2(100), Optional, Software supplied

Definition

The binomial or trinomial name of the taxon.

Example
Triticum aestivum
Rules
On input or update: generated from genus, species, and lowest rank, if below species.

Taxonomic name authority (taxauthor)

Characteristics
VARCHAR2(100), Optional, Software supplied
Definition
The authority of the taxonomic name.
Rules
Value of lowest rank authority.

Original citation (protologue)

Characteristics
VARCHAR2(120), Optional
Definition
The original literature reference for the species.
Example
Rhodora 42: 524. 1940
Bibl. Cult. Trees + Shrubs. 51. 1949

Taxonomic comment (taxcmt)

Characteristics
VARCHAR2(240), Optional
Definition
Taxonomic comments.
Rules
Only entered by SBML.

Site comment (sitecmt)

Characteristics
VARCHAR2(240), Optional
Definition
Comments on the name, added by the repository curators.
Rules
Only entered by psite1 or psite2.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who entered or last updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Taxonomy citation table (TCIT)

Definition

Table of the citation reference for recent literature about a taxon. The taxno links this record to the taxon and the abbr links it to the list of literature.

Rules

Only SBML and DBMU can add, update or delete tcit records.

Minimum data to add a tcit record is one of these fields: abbr, cittitle.

Constraint

Primary key

Column: citno.

Foreign key

Column: abbr. References table LIT (abbr).
Column: taxno. References table TAX (taxno).

Citation number (citno)

Characteristics

NUMBER(8), Required, Software supplied

Definition

The unique internal identifier assigned to the taxonomic citation. It serves as a link between the taxonomic citation table and other tables in the database.

Rules

Primary key. Unique sequence number. Cannot be updated.

Species number (taxno)

Characteristics

NUMBER(8), Required

Definition

The internal species identifier that indicates the taxonomy for the citation.

Rules

Foreign key. Link to tax table. Cannot be updated.
If tax record deleted, tcit record automatically deleted.

Reference abbreviation (abbr)

Characteristics

VARCHAR2(20), Optional

Definition

The short abbreviation for this reference.

Example

Crop Sci
Agron J
Ann Bot
F Ariz

Rules

Foreign key. Link to lit table.

Citation title (cittitle)

Characteristics

VARCHAR2(240), Optional

Definition

The title of the article or chapter.

Example

Registration of ICGV 86564 Peanut Germplasm
Registration of Bayshore Smooth Cordgrass
Inheritance of Adult-Plant Resistance to Powdery Mildew in Knox 62 and Massey Winter Wheats
Systematics, Diversity, and Germplasm

Rules

cittitle <> lit.reftitle or lit.stdabbr.

Author of publication (author)

Characteristics
VARCHAR2(240), Optional
Definition
Author(s) of the article or chapter.
Example
R.R. Kalton, P. Richardson
P.E. Lake

Citation year (cityr)

Characteristics
NUMBER(4), Optional
Definition
The year the citation was published or made available.
Rules
Values between 1600 and (current year + 1).

Citation reference (citref)

Characteristics
VARCHAR2(60), Optional
Definition
The citation (volume, page, etc.) within the journal or book.
Example
34(1):300
18(10):920
pp. 3-11

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
This field contains comments about the taxonomic citation.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition
The date the record was inserted into the database.
Rules
On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics
DATE, Optional, Software supplied
Definition
The date the record was last updated.
Rules
On insert: set to null.
On update: set to system date.

Type genus table (GNT)

Definition
Table linking families to their type genus.
Rules
Only SBML and DBMU can add, update or delete gnt records.
Constraint
Primary key
Columns: gno, famno.
Foreign key
Column: famno. References table FAM (famno).
Column: gno. References table GN (gno).

Genus number (gno)

Characteristics
NUMBER(8), Required
Definition
The internal genus identifier to indicate the type genus.
Rules
Foreign key. Link to gn table. Cannot be updated.
If gn record deleted, gnt record automatically deleted.

Family number (famno)

Characteristics
NUMBER(8), Required
Definition
The internal identifier for the classification above the genus level.

Rules

Foreign key. Link to fam table.
If fam record deleted, gnt record automatically deleted.

Comment (cmt)

Characteristics

VARCHAR2(240), Optional

Definition

General comment about the type genus.

User identifier (userid)

Characteristics

CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)

Definition

Login ID of the person who last entered or updated the record.

Rules

On insert or update: set to current user.

Date created (created)

Characteristics

DATE, Optional, Software supplied, Default = Current date

Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date the record was last updated.

Rules

On insert: set to null.
On update: set to system date.

Voucher Area -- Tables Owned by PROD

Voucher table (VOU)

Definition

Table of vouchers for accessions or inventory samples.

Rules

The site owning the accession or inventory (if ivid not null) can add, update or delete vou records for their site only. DBMU can add, update or delete vou records for another site.

Constraint

Foreign key

Column: acid. References table ACC (acid).
Column: cno. References table COOP (cno).
Column: ivid. References table IV (ivid).

Unique key

Columns: acid, vtype, vloc, ivid, cno, vouchered.

Accession identifier (acid)

Characteristics

NUMBER(8), Required

Definition

The internal accession identifier for this voucher.

Rules

Foreign key. Link to acc table. Cannot be updated.
If acc record deleted, vou record automatically deleted.

Voucher type (vtype)

Characteristics

VARCHAR2(10), Required, Coded

Definition

Type of voucher.

Rules

Standard codes. Uppercase.

Codes

Value	Definition	Site
HERB	Herbarium specimen	Std.
IMAGE	Computer image	Std.
LINK	URL link	Std.

Inventory identifier (ivid)

Characteristics

NUMBER(8), Optional

Definition

The internal inventory identifier used for this voucher specimen.

Rules

Foreign key. Link to iv table.
Must be a valid ivid for the acid.

Cooperator number (cno)

Characteristics

NUMBER(8), Optional

Definition

The internal cooperator identifier indicating the person collecting the voucher.

Rules

Foreign key. Link to coop table.

Date voucher collected (vouchered)

Characteristics

DATE, Optional

Definition

The date the voucher was collected. The precision of the date may be qualified with vou.datefmt.

Example

01-JAN-93
01/25/1994
01/1994
1994

Rules

Must be a valid date since 1896.
The format mask stored in DATEFMT is applied to this date.

Date format (datefmt)

Characteristics

VARCHAR2(10), Optional, Coded

Definition

Format of the voucher collection date as it was inserted.

Rules

Conditional. Standard codes. Uppercase.
On insert: if vouchered not null and datefmt null, set datefmt = MM/DD/YYYY.
On update: if null and vouchered is not null, do not update datefmt. On update if vouchered null, set datefmt null.

Codes

Value	Definition	Site
MM/DD/YYYY	Complete date	Std.

```
MM/YYYY    Year and month only                    Std.
YYYY       Year only                              Std.
```

Collector identifier (collid)

Characteristics
VARCHAR2(40), Optional
Definition
The voucher or collection identifer assigned by the collector.

Voucher location (vloc)

Characteristics
VARCHAR2(100), Required
Definition
The location(s) where the voucher is stored. Follow the Index Herbariorum edition 8 when possible.

Voucher content (vcontent)

Characteristics
VARCHAR2(100), Optional
Definition
Content of the voucher.

Comment (cmt)

Characteristics
VARCHAR2(240), Optional
Definition
General comment about the voucher.

User identifier (userid)

Characteristics
CHAR(10), Optional, Software supplied, Default = substr(USER,1,10)
Definition
Login ID of the person who entered or last updated the record.
Rules
On insert or update: set to current user.

Date created (created)

Characteristics
DATE, Optional, Software supplied, Default = Current date
Definition

The date the record was inserted into the database.

Rules

On insert: set to system date.
On update: keep original date.

Date modified (modified)

Characteristics

DATE, Optional, Software supplied

Definition

The date that the record was last updated.

Rules

On insert: set to null.
On update: set to system date.