

Crops, Descriptors, & Observations

NordGen Webinar Series
Session 5 – March 20, 2024

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Sessions

Session	Topic	Lecture/Demo	QA
1	Introduction / Overview	05 Dec. 2023	12 Dec. 2023
2	Creating Ancillary (Related) Records and Standards	10 Jan. 2024	17 Jan. 2024
3	GG requirements for Establishing Crops, Traits, and Coded Values in GG	24 Jan. 2024	31 Jan. 2024
4	How GG crop tables interrelate	06 Mar. 2024	13 Mar. 2024
5	Recording Observation records in GG	20 Mar. 2024	27 Mar. 2024
6	Using GG's features to search on and report on the data	17 Apr. 2024	24 Apr. 2024
7	Review of Crops and Descriptors	01 May. 2024	08 May. 2024
8	NordGen's Crop Methods and Projects Mapping and Start-Up (Teached by NordGen)	15 May. 2024	

Today

How GG crop tables interrelate – Session 5

- Describe best practices (& common errors that occur during this process)
 - Individually
 - Many records simultaneously
- Setting up Traits for languages other than English
 - Eng!
 - Other languages ???
- Source Habitat Descriptors (if time allows)

- Method
- Crop
- Crop Mapping – Taxonomy Species Map
- Trait
- Code
- **Language table:**
 - Trait Language and Code Language**
- Attachments tables: Crop, Trait

GG
Terminology

5 main dataviews to be defined:

Crop...

Crop Trait...

Crop Trait Language...

Crop Trait Code...

Crop Trait Code Language...

Crop Trait

Crop Trait ID	Crop	Trait Name	Trait Title	Trait Description	Is Peer Reviewed?	Category	Data Type	Is Coded?	Maximum Length
▶ 86058	PEANUTS	ARACHIDATE	Arachidate (20:0)	Arachidate (20:0) methyl ester	N	Chemical composition de...	Numeric descriptor	N	6
86059	PEANUTS	BEHENATE	Behenate (22:0)	Behenate (22:0) methyl ester	N	Chemical composition de...	Numeric descriptor	N	6
86033	PEANUTS	CLUSTERNO	CORE CLUSTER NU...	A cluster number used to group	N	Uncategorized descriptors	Alpha/numeric descri...	Y	2
86038	PEANUTS	COUNTRYDES	CORE COUNTRY DE...	Designation of country of origin	N	Uncategorized descriptors	Alpha/numeric descri...	Y	3
86039	PEANUTS	CORENO	CORE NUMBER	Peanut core numbers assigned	N	Uncategorized descriptors	Alpha/numeric descri...	N	6
86040	PEANUTS	CORESET	CORE SET PROCED...	The procedure used to select	N	Uncategorized descriptors	Alpha/numeric descri...	Y	1
86041	PEANUTS	CORE	CORE SUBSET	A flag to indicate the accession	Y	A subset of a collection	Alpha/numeric descri...	Y	1
86060	PEANUTS	EICOSENOATE	Eicosenoate (20:1)	Eicosenoate (20:1) methyl ester	N	Chemical composition de...	Numeric descriptor	N	6
86061	PEANUTS	EPOXYESTERS	Epoxy ester	Epoxy ester percentage	N	Chemical composition de...	Numeric descriptor	N	6

CROP Trait Records

4 required fields

Title &
Description
defined later
(in Lang)

	Crop Trait ID	Crop	Trait Name	Trait Title	Trait Description	Is Peer Reviewed?	Category	Data Type	Is Coded?	Maximum Length
	-1	ELDERBERRY	LEAFCOLOR			<input checked="" type="checkbox"/>	Morphologi...	Alpha/numeric ...	<input checked="" type="checkbox"/>	1
▶	-2					<input type="checkbox"/>	[Null]	[Null]	<input type="checkbox"/>	

The trait's Data Type and Code fields determine observation type

Crop Trait ID	Crop	Trait Name	Trait Title	Trait Description	Is Peer Reviewed	Category	Data Type	Is Coded?	Maximum Length	Number of Observations
375965	ELDERB...	ELDERNOTATI...	Notes	Field notes	<input type="checkbox"/>	General information	Alpha/numeric descriptor	<input type="checkbox"/>		
375966	ELDERB...	ELHEIGHT	Height (m)	Ht measured at center stem	<input type="checkbox"/>	Morphological descriptors	Numeric descriptor	<input type="checkbox"/>	5	#.#
375967	ELDERB...	BERRYCOLOR	Bery color	Dominant color of the berries	<input type="checkbox"/>	Morphological descriptors	Alpha/numeric descriptor	<input checked="" type="checkbox"/>	1	
-4					<input type="checkbox"/>	[Null]	[Null]	<input type="checkbox"/>		

Data Type	Is Coded?
Alpha/numeric descriptor	<input type="checkbox"/>
Numeric descriptor	<input type="checkbox"/>
Alpha/numeric descriptor	<input checked="" type="checkbox"/>

Value type	Field: Data Type	Field: Is Coded?
text ("string")	Alpha/numeric descriptor	- no -
numeric	Numeric descriptor	- no -
coded	Can be any Data Type , but Numeric is recommended	- yes -

When defining
the trait, two
fields
determine the
data type

Crop Trait Lang

Get Site Accessions Inventory Orders Cooperators Get Crop Trait Observation Get Crop Get Crop Attach Get Crop Trait **Crop Trait Lang** Get Crop Trait Code Crop Trait Code Lang

Crop Trait Lang ID	Crop	Crop Trait	Language	Trait Title	Trait Description	Create
▶ 745	PEANUTS	GROWTH HABIT	English	GROWTH HABIT	Growth habit recorded at 60 to 70 days.	8/12/1
746	PEANUTS	LEAF COLOR	English	LEAF COLOR	Color of the leaf at 60 - 90 days	8/12/1
747	PEANUTS	LEAFSPOT	English	LEAFSPOT	Resistance to leafspot infection	8/12/1
748	PEANUTS	MATURITY	English	MATURITY	Maturity at harvest	8/12/1
749	PEANUTS	NORTHERN ROOTKNOT NEMATODE	English	NORTHERN ROOTKNOT NEMATODE	Resistance to Northern Rootknot Nematode <i>(Meloidogyne hapla)</i>	8/12/1
750	PEANUTS	PEANUT ROOTKNOT NEMATODE	English	PEANUT ROOTKNOT NEMATODE	Resistance to Peanut Rootknot Nematode <i>(Meloidogyne arvensis)</i>	8/12/1
751	PEANUTS	POD CONstriction	English	POD CONstriction	Pod constriction at harvest, degree of depth of constriction found between the regions of the shell	8/12/1
752	PEANUTS	POD RETICULATION	English	POD RETICULATION	Pod reticulation at harvest, appearance of veins on	8/12/1

Codes

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Sub-Folders
Tab 1 CROPwebnar T < >

CROPwebnar Root Folder
an_MT-folder
CROPS
PEANUTS
PEANUTS
CODE Exmpls
POD TYPE
POD SHARE

Get Site Accessions Inventory Orders Cooperators Get Crop Trait Observation Get Crop Get Crop Trait Crop Trait Lang **Get Crop Trait Code** Crop Trait

Crop Trait Code ID	Crop	Trait Name	Crop Trait	Trait Description	Trait Code	Code Title	Code Description	Created Date
▶ 11730	PEANUTS	PODTYPE	POD TYPE	U.S. pod market type	1	Spanish	Spanish	3/22/1996
11731	PEANUTS	PODTYPE	POD TYPE	U.S. pod market type	2	Valencia	Valencia	3/22/1996
11732	PEANUTS	PODTYPE	POD TYPE	U.S. pod market type	3	Runner	Runner	3/22/1996
11733	PEANUTS	PODTYPE	POD TYPE	U.S. pod market type	4	Virginia	Virginia	3/22/1996
11734	PEANUTS	PODTYPE	POD TYPE	U.S. pod market type	5	Mixed	Mixed	3/22/1996

Crop Trait Code Lang

Crop Trait Code Lang ID	Crop	Crop Trait	Trait Name	Code Definition	Trait Title	Trait Description	Language	Code Title	Code Description	Created
11730	PEANUTS	POD TYPE	PODTYPE	Spanish	POD TYPE	U.S. pod market type	English	Spanish	Spanish	3/22/2011
11731	PEANUTS	POD TYPE	PODTYPE	Valencia	POD TYPE	U.S. pod market type	English	Valencia	Valencia	3/22/2011
11732	PEANUTS	POD TYPE	PODTYPE	Runner	POD TYPE	U.S. pod market type	English	Runner	Runner	3/22/2011
11733	PEANUTS	POD TYPE	PODTYPE	Virginia	POD TYPE	U.S. pod market type	English	Virginia	Virginia	3/22/2011
▶ 11734	PEANUTS	POD TYPE	PODTYPE	Mixed	POD TYPE	U.S. pod market type	English	Mixed	Mixed	3/22/2011

Examples


Production descriptors

- Leaf acid detergent fiber
- Stem acid detergent fiber
- Leaf neutral detergent fiber
- Stem neutral detergent fiber

Alfalfa

- Seed productivity
- Seedling
- Stem leaf ratio

Seed productivity. coded 1-9.



	A	B	C	D	E	G	H	I	J	K
	Crop									Maximu
	Trait	Crop	Trait Name	Trait Title	Trait Description	Category	Data Type	Is Code	m Len	Numeric
11	68001	ALFALFA	SEED PRODUCTION	Seed productivity	Seed productivity. coded 1-9.	Production descriptors	Alpha/numeric descriptor	Y	1	

Ex: Refer to external references

Morphological descriptors

- ANTHOCYANIN IMMATURE FRUIT
- NODE ANTHOCYANIN
- STEM ANTHOCYANIN
- BLOSSOM END SHAPE
- CALYX CONSTRICTION
- CALYX MARGIN
- CALYX SHAPE
- COROLLA COLOR
- COROLLA SPOTS
- COTYLEDON COLOR
- FRUIT SHAPE
- FRUIT PODS PER NODE
- FRUIT WEIGHT
- FRUIT WIDTH
- IMMATURE FRUIT COLOR
- LEAF PUBESCENCE
- LEAF TEXTURE
- LOCULE NUMBER
- MATURE FRUIT COLOR
- FRUIT NECK CONSTRICTION
- PEDICEL POSITION AT ANTHESIS

Peppers

COLOR OF MATURE FRUITS (BASED ON MUNSELL COLOR SCALE)

Peppers – 2 Traits

PLANT HABIT

Number of accessions (2307)

Equal to



1=SPRAWLING

2=2 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)

3=3 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)

4=4 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)

PLANT HEIGHT

Number of accessions (2343)

Equal to



6

12

15

17

Coded trait example

PLANT HABIT

Number of accessions (2307)

Equal to



7=7 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)
8=8 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)
9=TALL OR UPRIGHT
M=MIXED

Trait Values

Peppers – 2 Traits

The screenshot shows a software interface with a table of crop traits. The table has columns: Crop Trait ID, Crop, Trait Name, Is Peer Reviewed, Category, Data Type, Is Coded?, Maximum Length, Numeric Format, and Num Maxi. Two rows are highlighted with yellow boxes: 116034 (PEPPERS, PLANTHABIT, Y, Growth descriptors, Alpha/numeric descriptor, Y, 1) and 116035 (PEPPERS, PLANTHGT, Y, Growth descriptors, Numeric descriptor, N, 4, ##0). The 'Crop Trait' column header is highlighted with a red box.

Crop Trait ID	Crop	Trait Name	Is Peer Reviewed	Category	Data Type	Is Coded?	Maximum Length	Numeric Format	Num Maxi
116034	PEPPERS	PLANTHABIT	Y	Growth descriptors	Alpha/numeric descriptor	Y	1		
116035	PEPPERS	PLANTHGT	Y	Growth descriptors	Numeric descriptor	N	4	##0	

Peppers – Coded Ex. (Code dv)

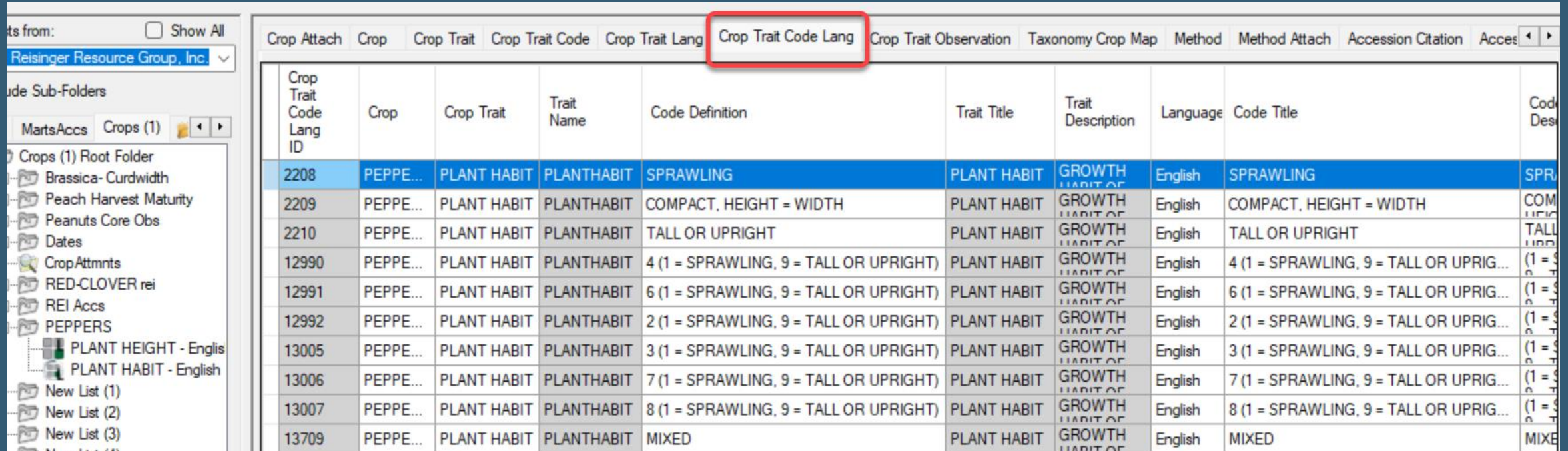
View lists from: Show All
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Include Sub-Folders

MartsAccs Crops (1)

- Crops (1) Root Folder
 - Brassica- Curdwidth
 - Peach Harvest Maturity
 - Peanuts Core Obs
 - Dates
 - CropAttmnts
 - RED-CLOVER rei
 - REI Accs
 - PEPPERS
 - PLANT HEIGHT - English
 - PLANT HABIT - English
 - New List (1)
 - New List (2)

Peppers – Coded Ex. (Lang dv)



The screenshot shows a software interface with a table of crop traits. The table has columns for Crop Trait Code Lang, Crop, Crop Trait, Trait Name, Code Definition, Trait Title, Trait Description, Language, Code Title, and Code Description. The 'Crop Trait Code Lang' column is highlighted with a red box. The table lists various traits for peppers, including 'SPRAWLING', 'COMPACT, HEIGHT = WIDTH', 'TALL OR UPRIGHT', and 'MIXED'.

Crop Trait Code Lang	Crop	Crop Trait	Trait Name	Code Definition	Trait Title	Trait Description	Language	Code Title	Code Description
2208	PEPPE...	PLANT HABIT	PLANTHABIT	SPRAWLING	PLANT HABIT	GROWTH HABIT OF	English	SPRAWLING	SPRU
2209	PEPPE...	PLANT HABIT	PLANTHABIT	COMPACT, HEIGHT = WIDTH	PLANT HABIT	GROWTH HABIT OF	English	COMPACT, HEIGHT = WIDTH	COM
2210	PEPPE...	PLANT HABIT	PLANTHABIT	TALL OR UPRIGHT	PLANT HABIT	GROWTH HABIT OF	English	TALL OR UPRIGHT	TALL
12990	PEPPE...	PLANT HABIT	PLANTHABIT	4 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)	PLANT HABIT	GROWTH HABIT OF	English	4 (1 = SPRAWLING, 9 = TALL OR UPRIG...	(1 = \$
12991	PEPPE...	PLANT HABIT	PLANTHABIT	6 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)	PLANT HABIT	GROWTH HABIT OF	English	6 (1 = SPRAWLING, 9 = TALL OR UPRIG...	(1 = \$
12992	PEPPE...	PLANT HABIT	PLANTHABIT	2 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)	PLANT HABIT	GROWTH HABIT OF	English	2 (1 = SPRAWLING, 9 = TALL OR UPRIG...	(1 = \$
13005	PEPPE...	PLANT HABIT	PLANTHABIT	3 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)	PLANT HABIT	GROWTH HABIT OF	English	3 (1 = SPRAWLING, 9 = TALL OR UPRIG...	(1 = \$
13006	PEPPE...	PLANT HABIT	PLANTHABIT	7 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)	PLANT HABIT	GROWTH HABIT OF	English	7 (1 = SPRAWLING, 9 = TALL OR UPRIG...	(1 = \$
13007	PEPPE...	PLANT HABIT	PLANTHABIT	8 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)	PLANT HABIT	GROWTH HABIT OF	English	8 (1 = SPRAWLING, 9 = TALL OR UPRIG...	(1 = \$
13709	PEPPE...	PLANT HABIT	PLANTHABIT	MIXED	PLANT HABIT	GROWTH HABIT OF	English	MIXED	MIXE

...recording a Coded Observation

The screenshot displays a data management interface with a table of crop trait observations. The table has columns for Crop Trait Observation ID, Accession, Inventory, Crop, Crop Trait, Coded Value, Trait Code, Numeric Value, Text Value, and Method. The 'Crop Trait Observation' column header is highlighted with a red box. A yellow arrow points to the 'PLANT HABIT' row in the table. A 'Lookup Picker v1.23.1.26' dialog box is open, showing a list of trait codes and their descriptions. The 'crop_trait_id' checkbox is checked. The dialog box also includes a filter field, a 'Refresh List' button, and 'OK' and 'Cancel' buttons.

Crop Trait Observation ID	Accession	Inventory	Crop	Crop Trait	Coded Value	Trait Code	Numeric Value	Text Value	Method
934953	PI 208738	PI 208738 **	PEPPERS	PLANT HEIGHT					
927110	PI 183926	PI 183926 **	PEPPERS	PLANT HEIGHT					
935072	PI 224421	PI 224421 **	PEPPERS	PLANT HEIGHT					
939785	PI 238055	PI 238055 **	PEPPERS	PLANT HEIGHT					
933710	PI 281414	PI 281414 **	PEPPERS	PLANT HEIGHT					
953735	PI 281439	PI 281439 **	PEPPERS	PLANT HEIGHT					
936825	PI 321387	PI 321387 **	PEPPERS	PLANT HEIGHT					
941568	PI 239703	PI 239703 **	PEPPERS	PLANT HEIGHT					
946386	PI 355808	PI 355808 **	PEPPERS	PLANT HEIGHT					
932788	PI 281389	PI 281389 **	PEPPERS	PLANT HEIGHT					
-5093		PI 281389 **	PEPPERS	PLANT HABIT					

Lookup Picker v1.23.1.26

HINT: For big lists, use the text filter to shorten the list search.

Filter -> |

2 (1 = SPRAWLING, 9 = TALL OR UPRIGHT) Show Only Choices
3 (1 = SPRAWLING, 9 = TALL OR UPRIGHT) Valid For This:
4 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)
6 (1 = SPRAWLING, 9 = TALL OR UPRIGHT) crop_trait_id
7 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)
8 (1 = SPRAWLING, 9 = TALL OR UPRIGHT)
COMPACT, HEIGHT = WIDTH
MIXED
SPRAWLING
TALL OR UPRIGHT

Refresh List OK Cancel

Data Editing: Edit Data Save Data Cancel

Edit Mode:
 Hide Non-Error Rows Hide Copy/Paste Warnings
 Hide Unchanged Rows Highlight Changed Data

Ribes Thorniness – Coded Trait Ex.

Show All
 A., Reisinger Resource Group, Inc.

Include Sub-Folders

MartsAccs Crops (1)

- Crops (1) Root Folder
 - Brassica- Curdwidth
 - Peach Harvest Maturity
 - Peanuts Core Obs
 - Dates
 - CropAttmnts
 - RED-CLOVER rei
 - REI Accs
 - PEPPERS
 - RIBES
 - TYPE - English
 - THORNINESS**
 - New List (2)

Crop Trait Attach	Crop Attach	Crop	Crop Trait	Crop Trait Code	Crop Trait Lang	Crop Trait Code Lang	Crop Trait Observation	Taxonomy Crop Map	Method	Method A
Crop Trait Code ID	Crop	Trait Name	Crop Trait	Trait Description	Trait Code	Code Title	Code Description			
9126	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	1	NONE	NONE			
9127	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	9	EXTREME	EXTREME			
9245	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	2	2 (1 = NONE, 9 = EXTREME)	(1 = NONE, 9 = EXTREME)			
9246	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	3	3 (1 = NONE, 9 = EXTREME)	(1 = NONE, 9 = EXTREME)			
9247	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	4	4 (1 = NONE, 9 = EXTREME)	(1 = NONE, 9 = EXTREME)			
9248	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	5	5 (1 = NONE, 9 = EXTREME)	(1 = NONE, 9 = EXTREME)			
9249	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	6	6 (1 = NONE, 9 = EXTREME)	(1 = NONE, 9 = EXTREME)			
9250	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	7	7 (1 = NONE, 9 = EXTREME)	(1 = NONE, 9 = EXTREME)			
9251	RIBES	THORNINESS	THORNINESS	PRESENCE OF THORN ON THE	8	8 (1 = NONE, 9 = EXTREME)	(1 = NONE, 9 = EXTREME)			

from: Show All

Resource Group, Inc

Sub-Folders

MartsAccs Crops (1)

- Crops (1) Root Folder
 - Brassica- Curdwidth
 - Peach Harvest Maturity
 - Peanuts Core Obs
 - Dates
 - CropAtmnts
 - RED-CLOVER rei
 - REI Accs
 - PEPPERS
 - RIBES
 - TYPE - English
 - THORNINESS
 - New List (2)
 - New List (3)
 - New List (4)

Crop Trait Attach Crop Attach Crop Crop Trait Crop Trait Code Crop Trait Lang Crop Trait Code Lang **Crop Trait Observation** Taxonomy Crop Map Method Method Attach Access

Crop Trait Observation ID	Accession	Inventory	Crop	Crop Trait	Coded Value	Trait Code	Numeric Value	Text Value	Method
2104730	PI 556306	PI 556306 **	RIBES	THORNINESS	NONE	1			RIBES.CORVALLIS.STD
2104729	PI 556307	PI 556307 **	RIBES	THORNINESS	NONE	1			RIBES.CORVALLIS.STD
2104728	PI 556309	PI 556309 **	RIBES	THORNINESS	NONE				
2104727	PI 556370	PI 556370 **	RIBES	THORNINESS	NONE				
2104726	PI 556393	PI 556393 **	RIBES	THORNINESS	7 (1 = NONE, 9 = EXTREME)				
2104725	PI 556398	PI 556398 **	RIBES	THORNINESS	NONE				
2104724	PI 556437	PI 556437 **	RIBES	THORNINESS	5 (1 = NONE, 9 = EXTREME)				
2104723	PI 556441	PI 556441 **	RIBES	THORNINESS	NONE				
2104722	PI 556442	PI 556442 **	RIBES	THORNINESS	2 (1 = NONE, 9 = EXTREME)				
2104721	PI 556443	PI 556443 **	RIBES	THORNINESS	7 (1 = NONE, 9 = EXTREME)				
-128		PI 556443 **	RIBES	THORNINESS					

Lookup Picker v1.23.1.26

HINT: For big lists, use the text filter to shorten the list search.

Filter ->

- 2 (1 = NONE, 9 = EXTREME)
- 3 (1 = NONE, 9 = EXTREME)
- 4 (1 = NONE, 9 = EXTREME)
- 5 (1 = NONE, 9 = EXTREME)
- 6 (1 = NONE, 9 = EXTREME)
- 7 (1 = NONE, 9 = EXTREME)
- 8 (1 = NONE, 9 = EXTREME)
- EXTREME
- NONE

Show Only Choices Valid For This:

- crop_trait_id

Refresh List OK Cancel

128 of 128

Data Editing Edit Mode

Hide Non-Error Rows Hide Copy/Paste Warnings
 Hide Unchanged Rows Highlight Changed Data

Edit Data Save Data Cancel

Observations – in English

Crop Trait Attach	Crop Attach	Crop	Crop Trait	Crop Trait Lang	Crop Trait Code	Crop Trait Code Lang	Crop Trait Observation	Taxonomy	Crop Map	Method	Me
Crop Trait Observation ID	Accession	Inventory	Crop	Crop Trait	Coded Value	Trait Code	Numeric Value	Text Value			
4452172	PI 594123	PI 594123 **	PEPPERS	PLANT HABIT	7 (1 = SPRAWLING, 9 = TALL OR ...	7					F
4452171	PI 594128	PI 594128 **	PEPPERS	PLANT HABIT	7 (1 = SPRAWLING, 9 = TALL OR ...	7					F
4467813	PI 594129	PI 594129 **	PEPPERS	PLANT HABIT	TALL OR UPRIGHT	9					F
4468558	PI 594130	PI 594130 **	PEPPERS	PLANT HABIT	MIXED	M					F
4452185	PI 594134	PI 594134 **	PEPPERS	PLANT HABIT	TALL OR UPRIGHT	9					F
4452186	PI 594135	PI 594135 **	PEPPERS	PLANT HABIT	SPRAWLING	1					F
4452187	PI 594136	PI 594136 **	PEPPERS	PLANT HABIT	COMPACT HEIGHT, WIDTH	5					F

Observations – in ENG

Crop Trait Attach	Crop Attach	Crop	Crop Trait	Crop Trait Lang	Crop Trait Code	Crop Trait Code Lang	Crop Trait Observation	Taxonomy	Crop Map	Method
Crop Trait Observation ID	Accession	Inventory	Crop	Crop Trait	Coded Value	Trait Code	Numeric Value			
4452173	PI 594122	PI 594122 **	PEPPERS	PLANTHABIT	9	9				
4452172	PI 594123	PI 594123 **	PEPPERS	PLANTHABIT	7	7				
4452171	PI 594128	PI 594128 **	PEPPERS	PLANTHABIT	7	7				
4467813	PI 594129	PI 594129 **	PEPPERS	PLANTHABIT	9	9				
4468558	PI 594130	PI 594130 **	PEPPERS	PLANTHABIT	M	M				
4452185	PI 594134	PI 594134 **	PEPPERS	PLANTHABIT	9	9				
4452186	PI 594135	PI 594135 **	PEPPERS	PLANTHABIT	1	1				
4452122	PI 594126	PI 594126 **	PEPPERS	PLANTHABIT	5	5				

Languages

Berry Color

Number of accessions (1)

Equal to



9=Dark; Valdigt morkt; nastan helt svart



Trait Values

Languages

+ Choose all

✕ Remove all

Morphological descriptors

[Berry Color](#)

Plant Height (m)

Select Va

Berry color at maturity; ranges from 1 - light to 9, very dark; almost pure black;

Bärfärg vid mognad; varierar från 1 - ljus till 9, mycket mörk; nästan helt svart

Languages

+ Choose all

✕ Remove all

Morphological descriptors

[Berry Color](#)

[Plant Height \(m\)](#)

Select Va

Berry color at maturity; ranges from 1 - light to 9, very dark; almost pure black; Bärfärg vid mognad; varierar från 1 - ljus till 9, mycket mörk; nästan helt svart

MAR-ELDER

Descriptors

Category: MORPHOLOGY

1. [Berry Color](#) (BERRY COLOR) Berry color at maturity; ranges from 1 - light to 9, very dark; almost pure black; Bärfärg vid mognad; varierar från 1 - ljus till 9, mycket mörk; nästan helt svart
2. [Plant Height \(m\)](#) (PLANTHEIGHT) kasvin korkeus

Homework

Prepare an Excel workbook w/ several spreadsheet tabs:

- Traits (Descriptors)
- Codes for some traits

Other References

- USDA's Descriptors on GG:
<https://npgsweb.ars-grin.gov/gringlobal/descriptors>
- Refer to http://rrginc.com/gg_training/ for links to the webinar's presentations (PDFs) and other links

