Adding Observations

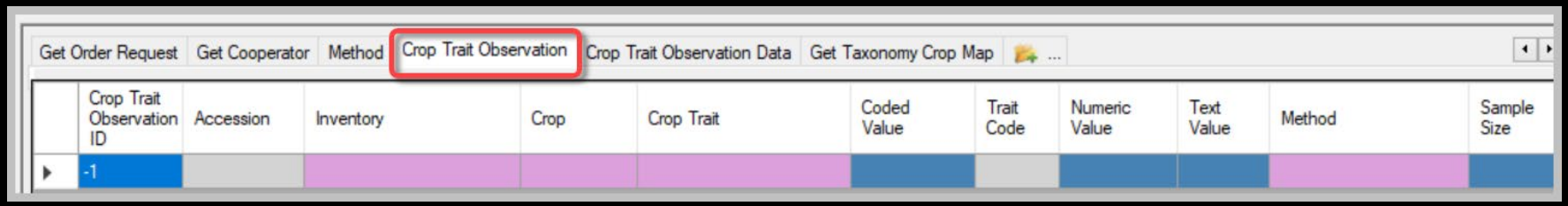
(…continued – "Part 2")

Crops & Traits

"Descriptors"

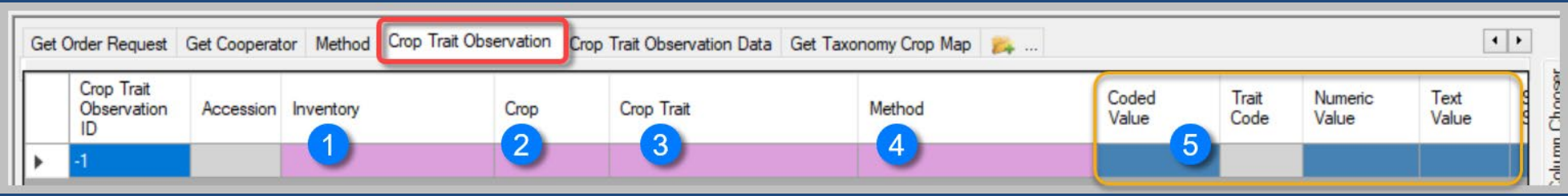
Quiz!

- Is the accession a required field?



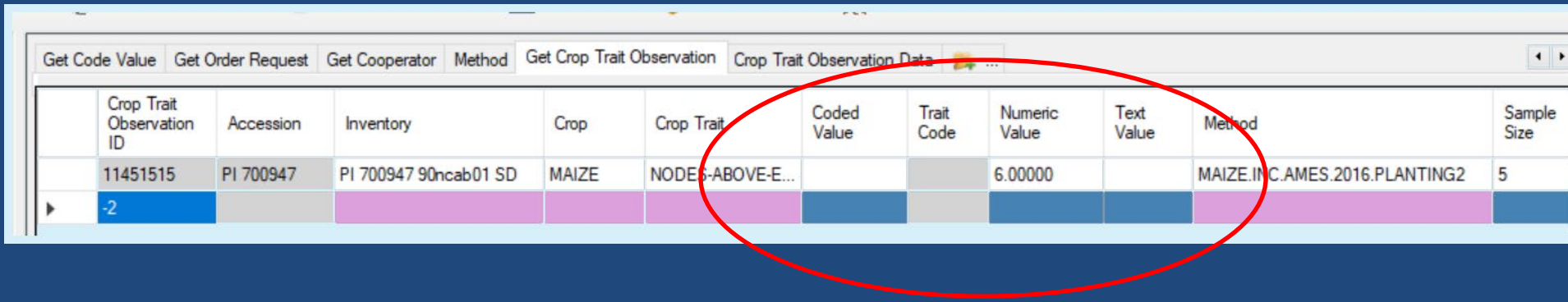
Recording New Observations

You need to know…

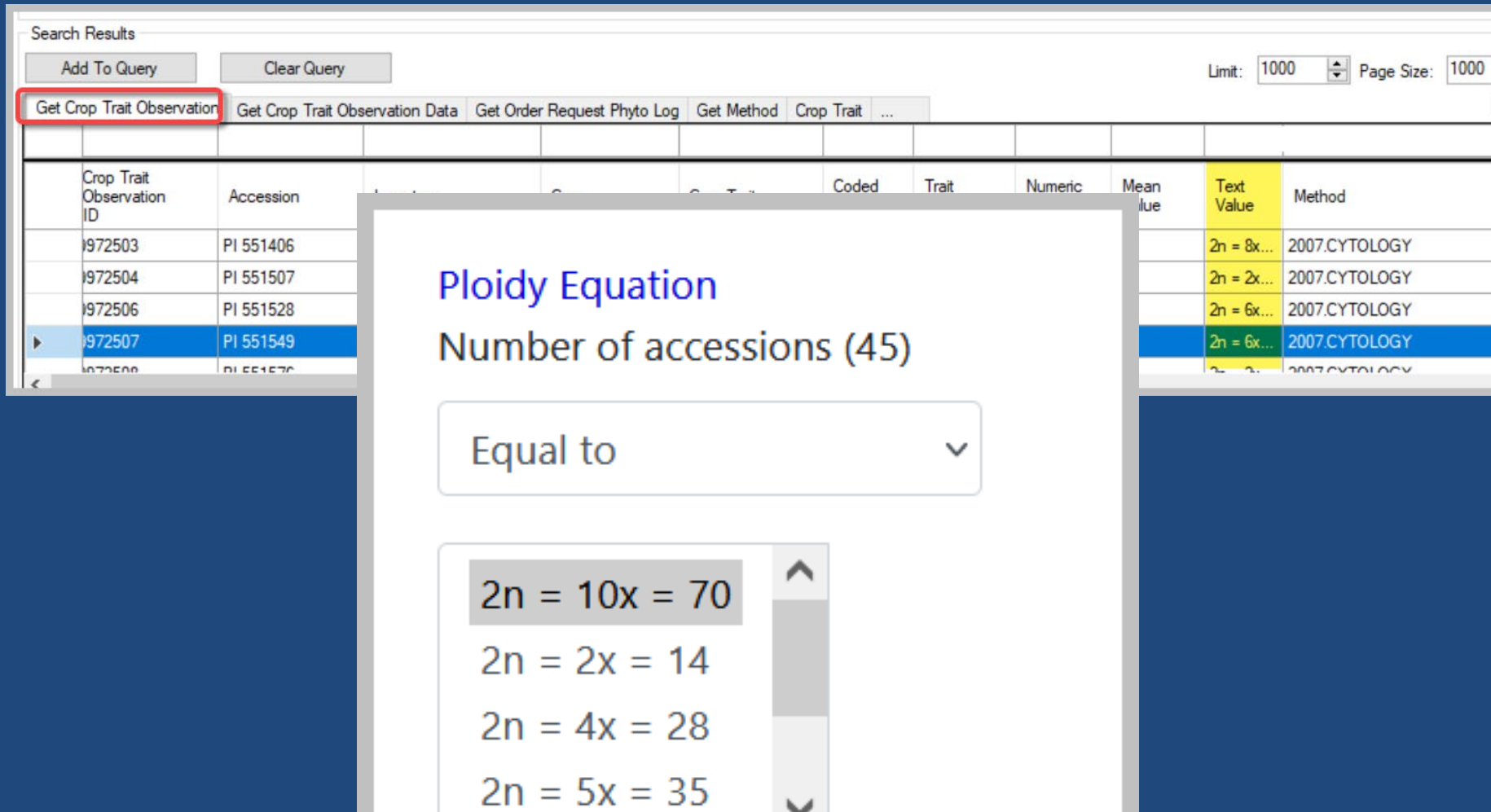


3 Types of values

- *type* of data being recorded *(text, numeric, or coded)*

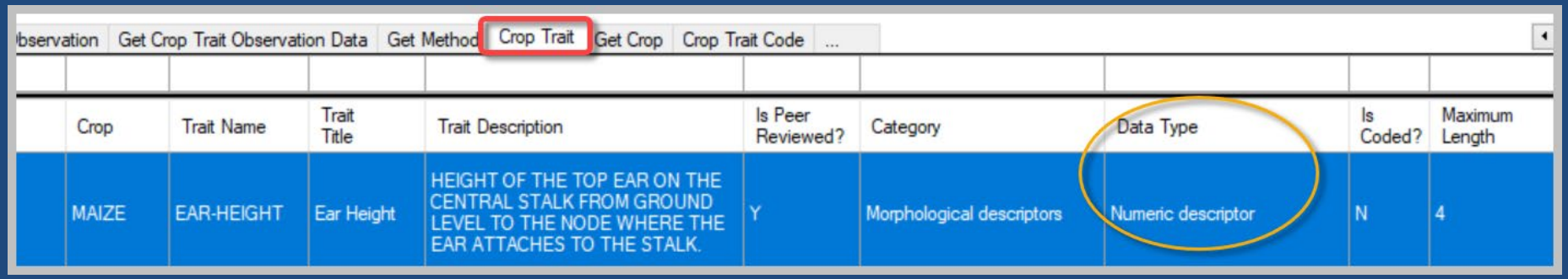


Text value:
Example: Ploidy Equation



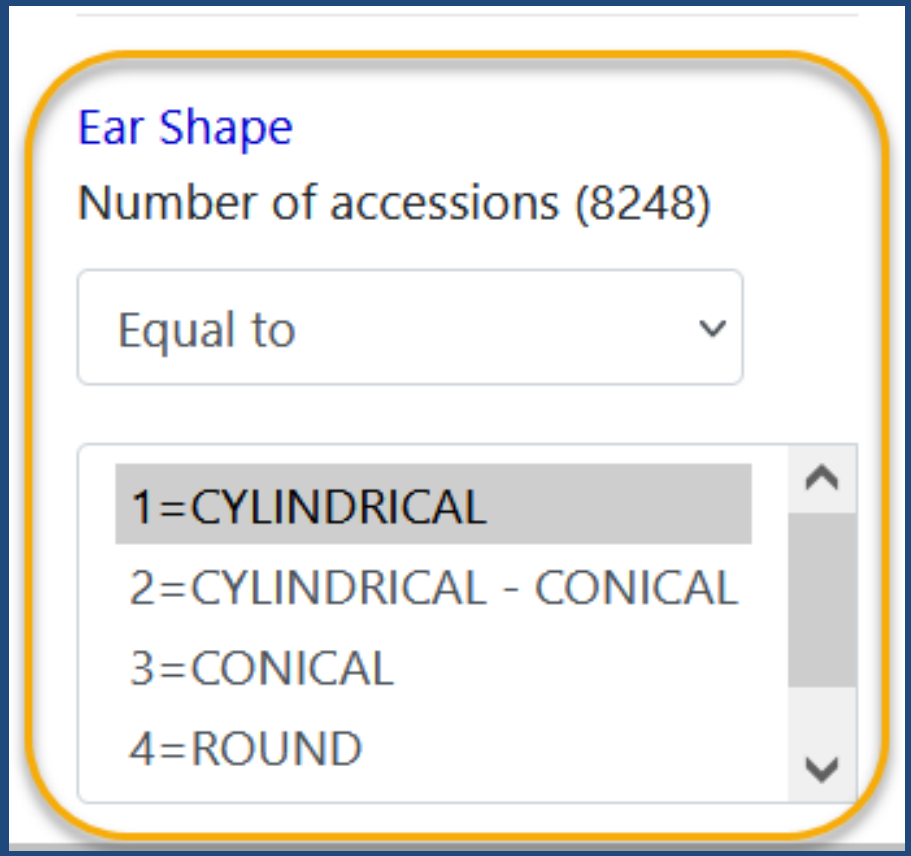
Numeric values

- The Data Type must use "*Numeric descriptor*"

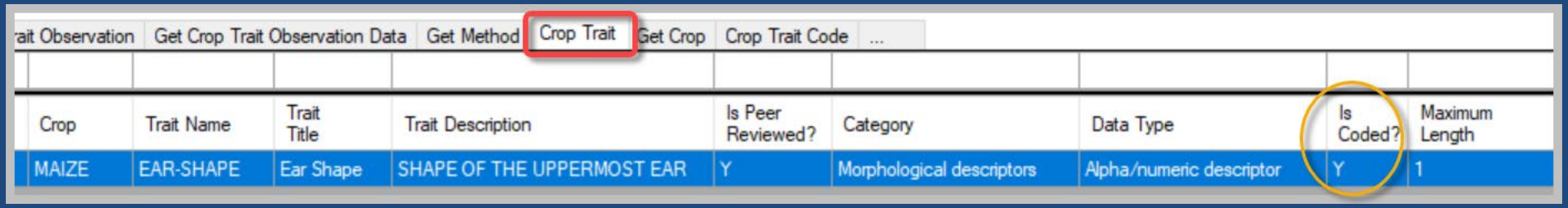


Coded values

- Use a scale of codes – designed *specifically* for the trait



Coded values



Coded values

rait Observation | Get Crop Trait Observation Data | Get Method | **Crop Trait** | Get Crop | Crop Trait Code | ...

Crop	Trait Name	Trait Title	Trait Description	Is Peer Reviewed?	Category	Data Type	Is Coded?	Maximum Length
MAIZE	EAR-SHAPE	Ear Shape	SHAPE OF THE UPPERMOST EAR	Y	Morphological descriptors	Alpha/numeric descriptor	Y	1

op Trait Observation | Get Crop Trait Observation Data | Get Method | Crop Trait | Get Crop | **Crop Trait Code** | ...

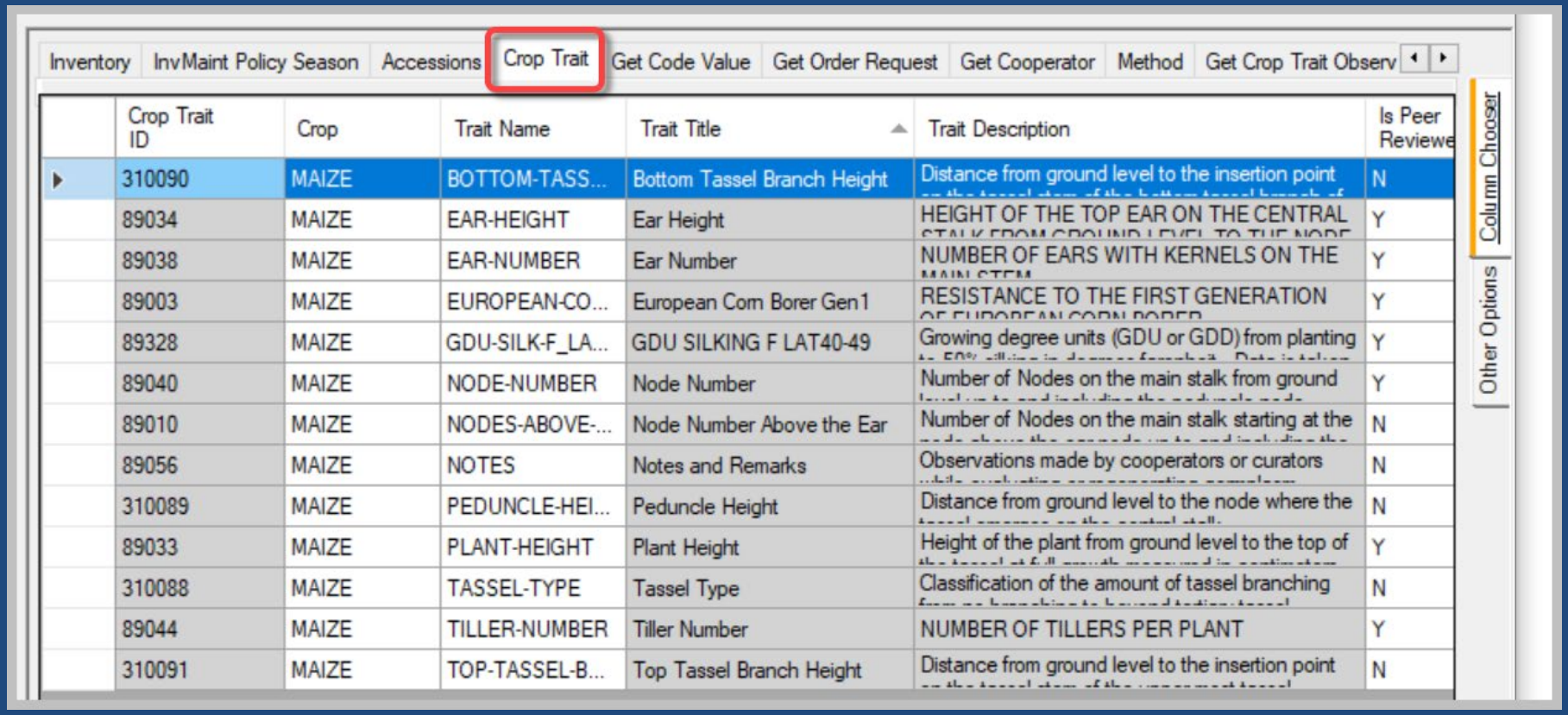
Crop Trait Code ID	Crop	Trait Name	Crop Trait	Trait Description	Trait Code	Code Title	Code Description
3956	MAIZE	EAR-SHAPE	Ear Shape	SHAPE OF THE UPPERMOST EAR	1	CYLINDRICAL	CYLINDRICAL
3957	MAIZE	EAR-SHAPE	Ear Shape	SHAPE OF THE UPPERMOST EAR	2	CYLINDRICAL - CONICAL	CYLINDRICAL - CONICAL
3958	MAIZE	EAR-SHAPE	Ear Shape	SHAPE OF THE UPPERMOST EAR	3	CONICAL	CONICAL
3959	MAIZE	EAR-SHAPE	Ear Shape	SHAPE OF THE UPPERMOST EAR	4	ROUND	ROUND
3960	MAIZE	EAR-SHAPE	Ear Shape	SHAPE OF THE UPPERMOST EAR	5	FASCIATED	FASCIATED

How do you determine …

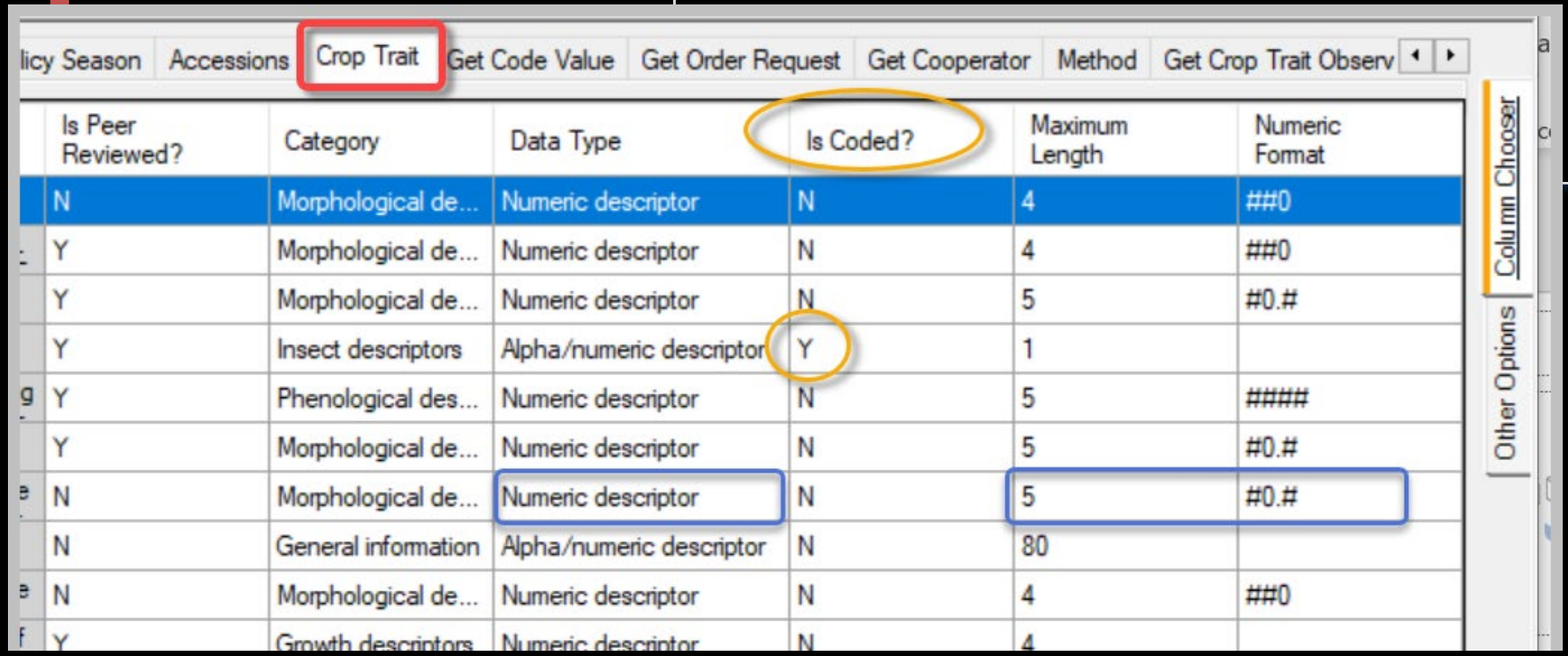
Whether an observation is…

text, numeric, or coded?

….look at the trait



Crop Trait ID	Crop	Trait Name	Trait Title	Trait Description	Is Peer Reviewe
310090	MAIZE	BOTTOM-TASS...	Bottom Tassel Branch Height	Distance from ground level to the insertion point	N
89034	MAIZE	EAR-HEIGHT	Ear Height	HEIGHT OF THE TOP EAR ON THE CENTRAL	Y
89038	MAIZE	EAR-NUMBER	Ear Number	NUMBER OF EARS WITH KERNELS ON THE	Y
89003	MAIZE	EUROPEAN-CO...	European Corn Borer Gen1	RESISTANCE TO THE FIRST GENERATION	Y
89328	MAIZE	GDU-SILK-F_LA...	GDU SILKING F LAT40-49	Growing degree units (GDU or GDD) from planting	Y
89040	MAIZE	NODE-NUMBER	Node Number	Number of Nodes on the main stalk from ground	Y
89010	MAIZE	NODES-ABOVE-...	Node Number Above the Ear	Number of Nodes on the main stalk starting at the	N
89056	MAIZE	NOTES	Notes and Remarks	Observations made by cooperators or curators	N
310089	MAIZE	PEDUNCLE-HEI...	Peduncle Height	Distance from ground level to the node where the	N
89033	MAIZE	PLANT-HEIGHT	Plant Height	Height of the plant from ground level to the top of	Y
310088	MAIZE	TASSEL-TYPE	Tassel Type	Classification of the amount of tassel branching	N
89044	MAIZE	TILLER-NUMBER	Tiller Number	NUMBER OF TILLERS PER PLANT	Y
310091	MAIZE	TOP-TASSEL-B...	Top Tassel Branch Height	Distance from ground level to the insertion point	N



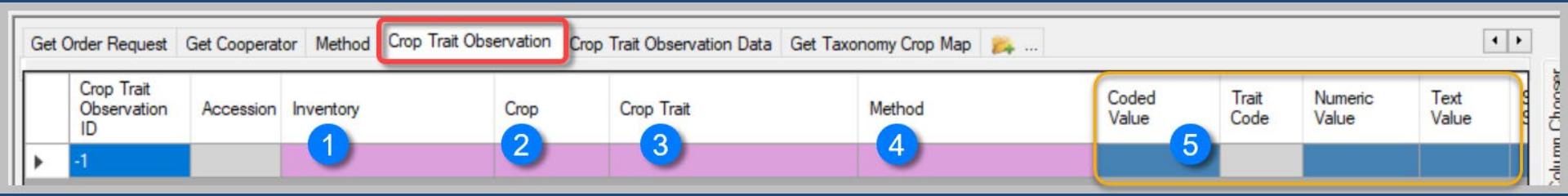
Is Peer Reviewed?	Category	Data Type	Is Coded?	Maximum Length	Numeric Format
N	Morphological de...	Numeric descriptor	N	4	##0
Y	Morphological de...	Numeric descriptor	N	4	##0
Y	Morphological de...	Numeric descriptor	N	5	#0.#
Y	Insect descriptors	Alpha/numeric descriptor	Y	1	
Y	Phenological des...	Numeric descriptor	N	5	####
Y	Morphological de...	Numeric descriptor	N	5	#0.#
N	Morphological de...	Numeric descriptor	N	5	#0.#
N	General information	Alpha/numeric descriptor	N	80	
N	Morphological de...	Numeric descriptor	N	4	##0
Y	Growth descriptors	Numeric descriptor	N	4	

Adding observations

- One
- Many

Adding observations

- One
- Many



Demo

- Creating your own template
- Adding one observation at a time
- Bulk adding many obs at one time

- The advantage of knowing a second language…

ENG

Numeric fields (optional)

- Numeric Minimum / Numeric Maximum

Numeric fields (optional)

- Numeric Minimum / Numeric Maximum (minimum and maximum *values*)

Numeric Format*

Format specifier	Name	Description	Examples
"0"	Zero placeholder	Replaces the zero with the corresponding digit if one is present; otherwise, zero appears	1234.5678 ("00000") -> 01235 0.45678 ("0.00", -> 0.46
"#"	Digit placeholder	Replaces the "#" symbol with the corresponding digit if one is present; otherwise, no digit appears no digit appears if the digit is a non-significant 0.	1234.5678 ("#####") -> 1235 0.45678 ("#.##",-> .46 0003 ("####") -> 3
"."	Decimal point	Determines the location of the decimal separator	0.45678 ("0.00") -> 0.46

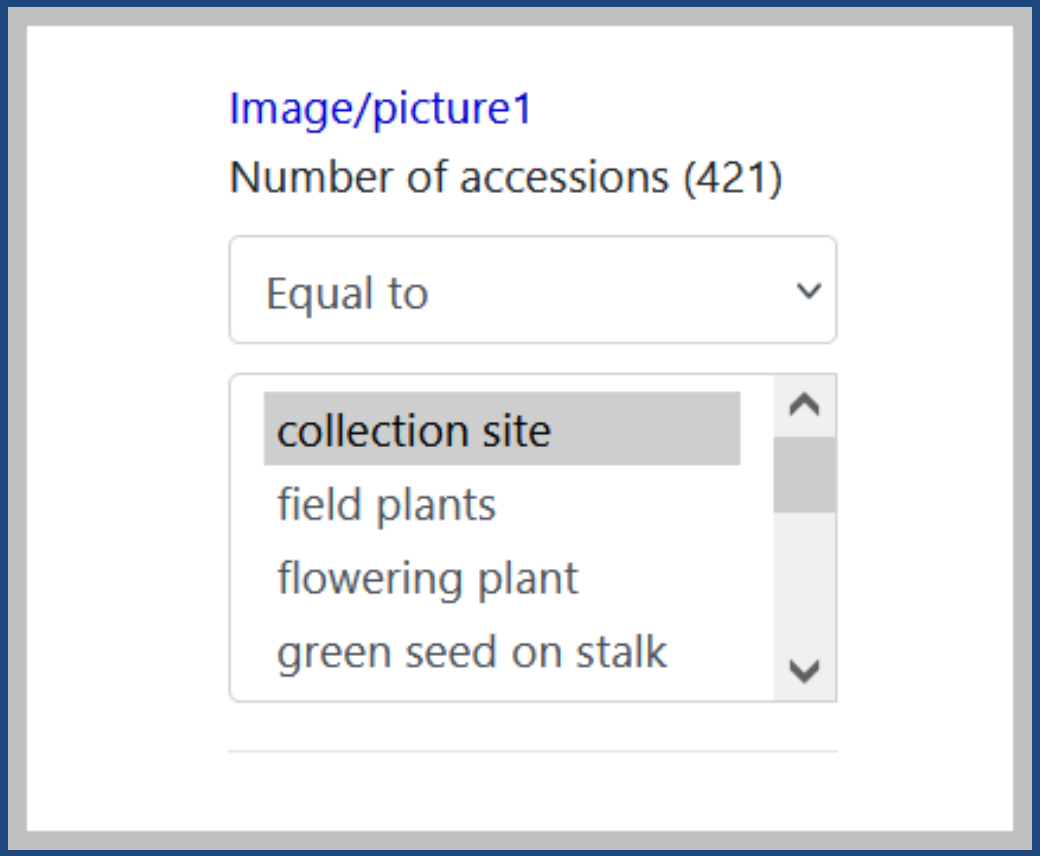
*Formats display in the Public Website (not the CT)

Is Archived?

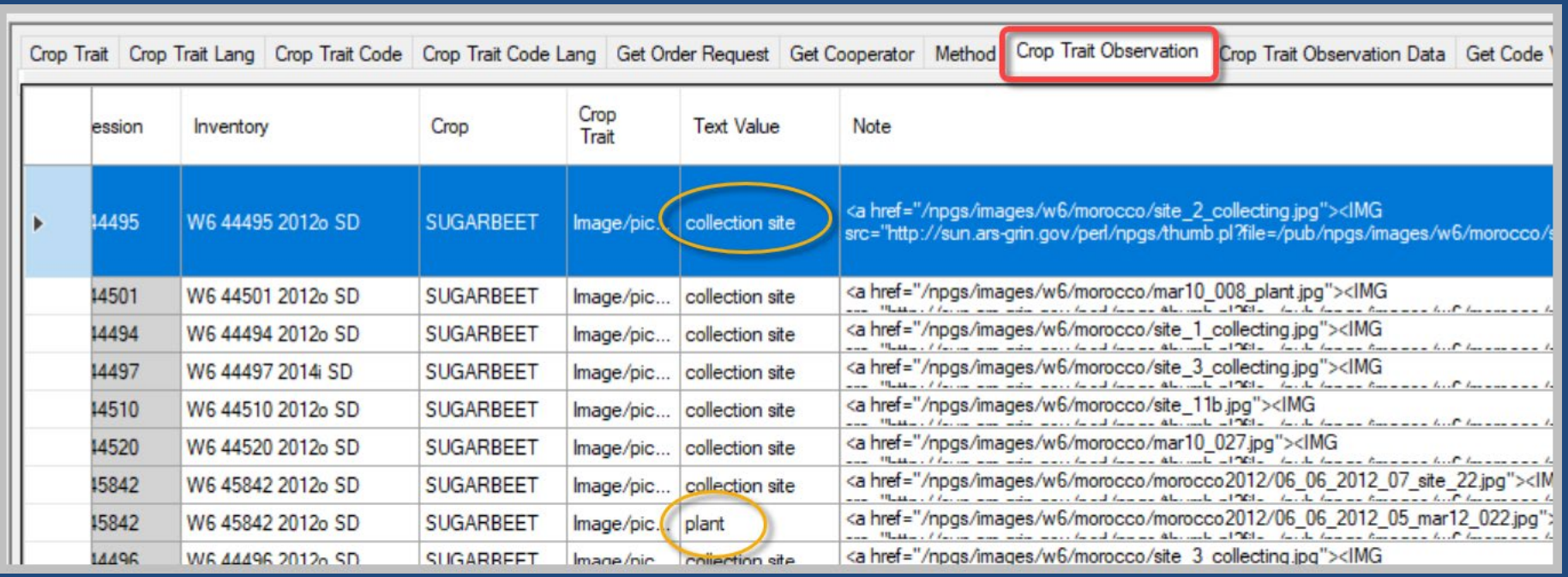
- Determines PW visibility

Other Examples

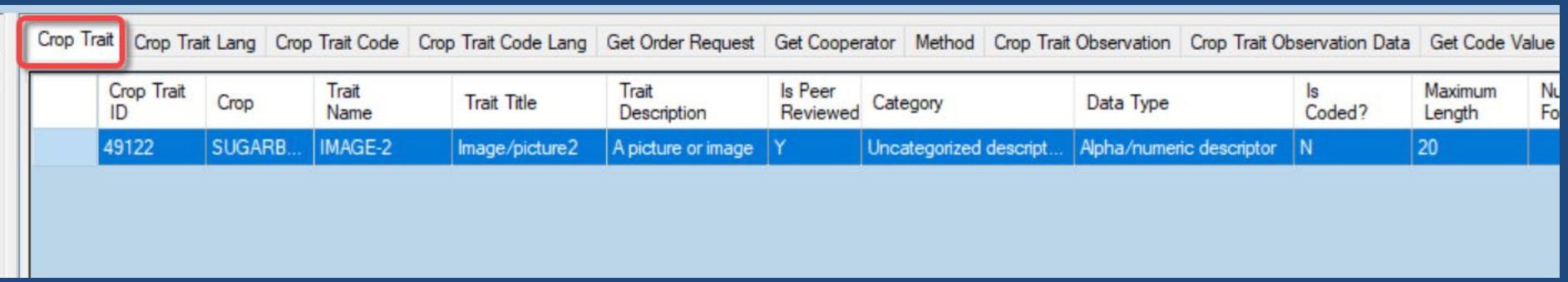
Images…SUGARBEET



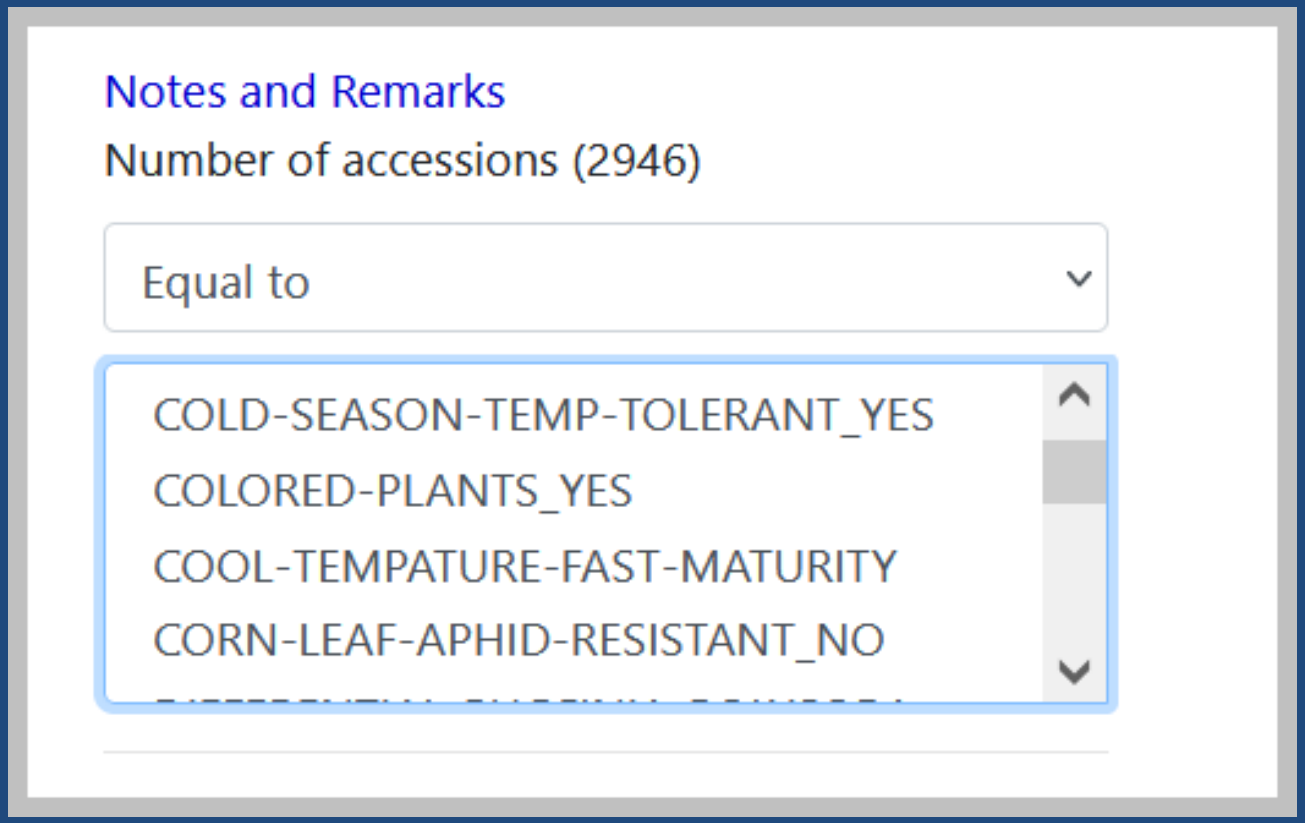
IMAGES … SUGARBEET



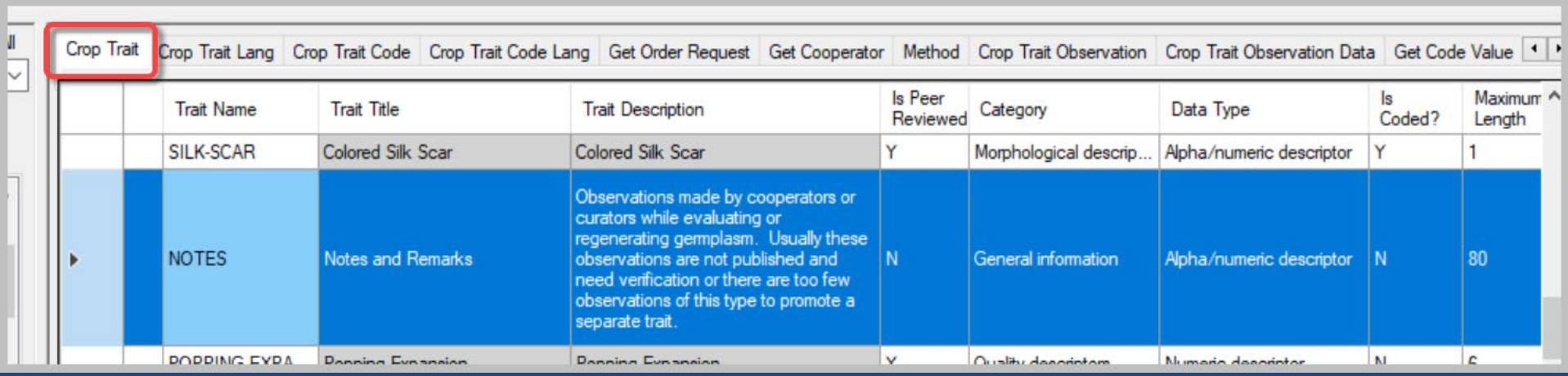
IMAGES … SUGARBEET



Maize


Notes and Remarks
Number of accessions (2946)
Equal to
COLD-SEASON-TEMP-TOLERANT_YES
COLORED-PLANTS_YES
COOL-TEMPATURE-FAST-MATURITY
CORN-LEAF-APHID-RESISTANT_NO

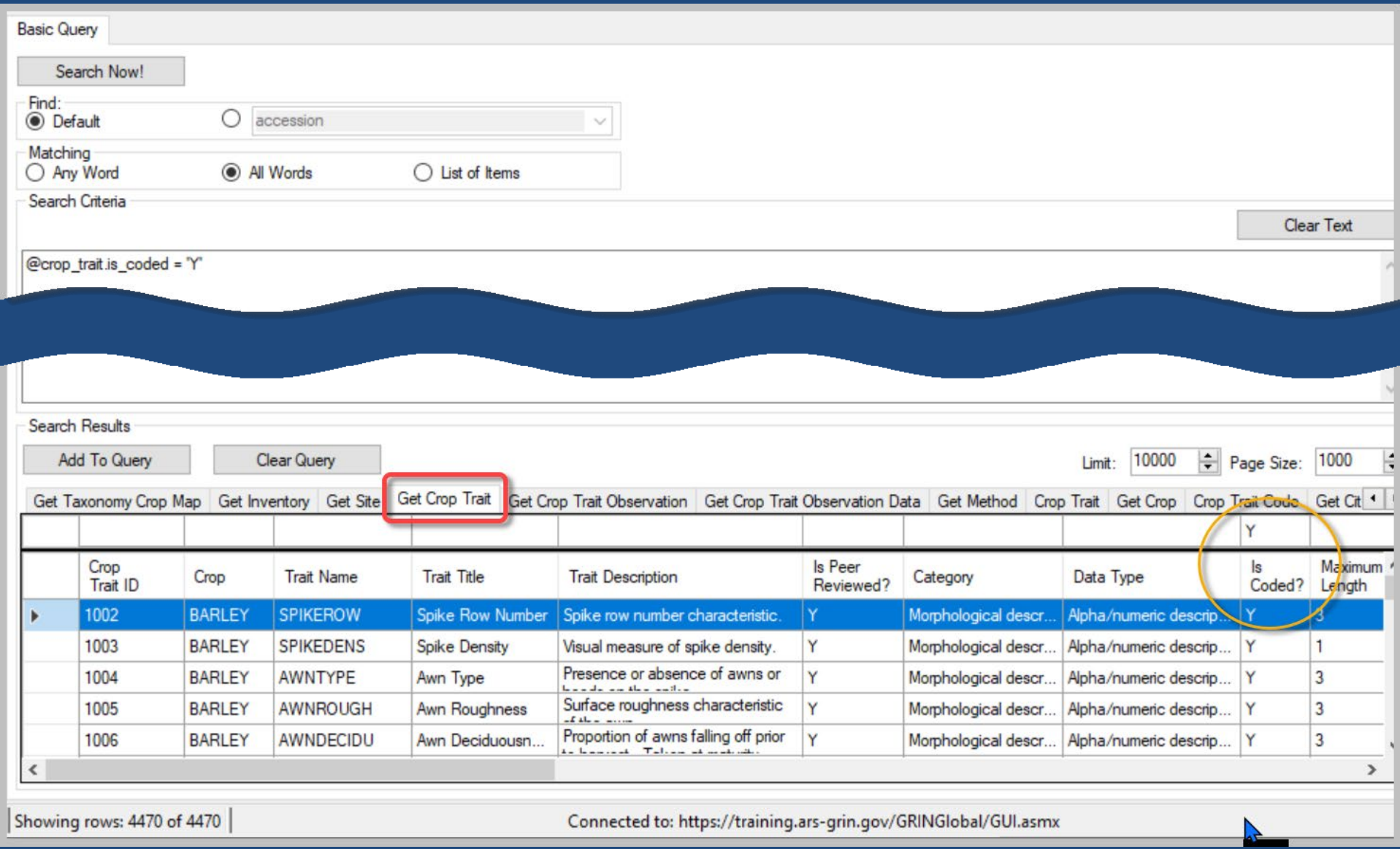
Maize

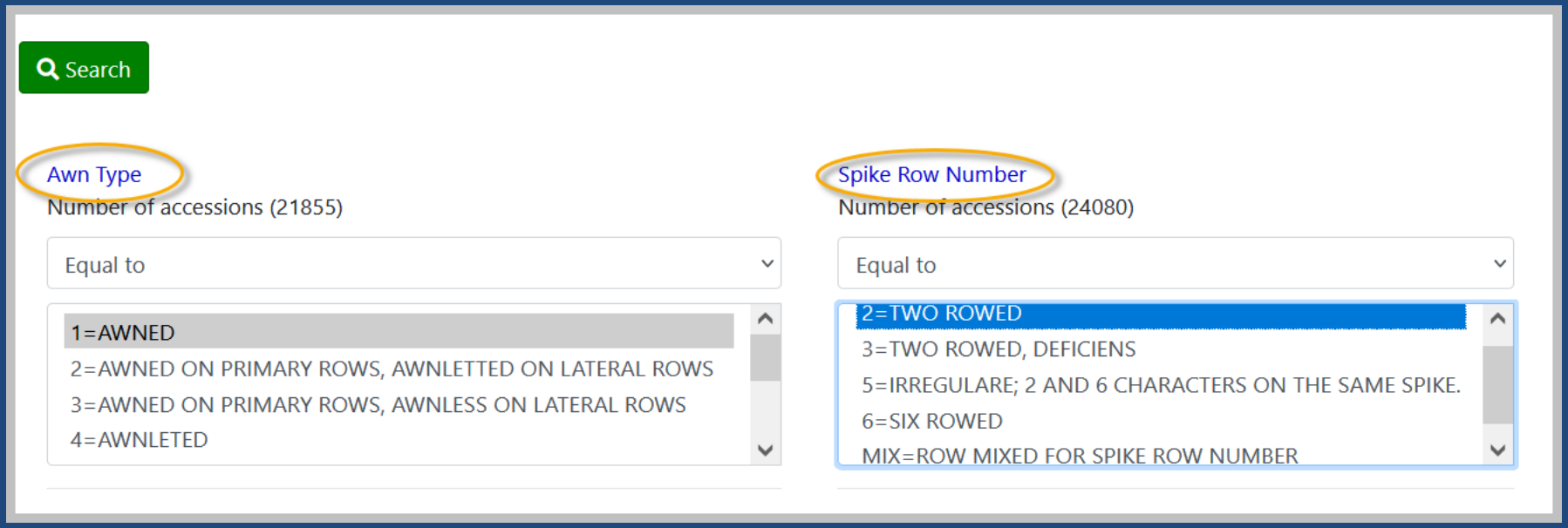


Crop Trait | Crop Trait Lang | Crop Trait Code | Crop Trait Code Lang | Get Order Request | Get Cooperator | Method | Crop Trait Observation | Crop Trait Observation Data | Get Code Value

Trait Name	Trait Title	Trait Description	Is Peer Reviewed	Category	Data Type	Is Coded?	Maximum Length
SILK-SCAR	Colored Silk Scar	Colored Silk Scar	Y	Morphological descrip...	Alpha/numeric descriptor	Y	1
NOTES	Notes and Remarks	Observations made by cooperators or curators while evaluating or regenerating germplasm. Usually these observations are not published and need verification or there are too few observations of this type to promote a separate trait.	N	General information	Alpha/numeric descriptor	N	80
POPPING EXPA	Popping Expansion	Popping Expansion	Y	Quality descriptors	Numeric descriptor	N	6

Best Way to Learn More about Coded traits…


Basic Query
Search Now!
Find:
Default
accession
Matching
Any Word
All Words
List of Items
Search Criteria
Clear Text
@crop_trait.is_coded = 'Y'
Search Results
Add To Query
Clear Query
Limit: 10000
Page Size: 1000
Get Taxonomy Crop Map
Get Inventory
Get Site
Get Crop Trait
Get Crop Trait Observation
Get Crop Trait Observation Data
Get Method
Crop Trait
Get Crop
Crop Trait Code
Get Cit
Y
Crop Trait ID
Crop
Trait Name
Trait Title
Trait Description
Is Peer Reviewed?
Category
Data Type
Is Coded?
Maximum Length
1002 BARLEY SPIKEROW Spike Row Number Spike row number characteristic. Y Morphological descr... Alpha/numeric descrip... Y 3
1003 BARLEY SPIKEDENS Spike Density Visual measure of spike density. Y Morphological descr... Alpha/numeric descrip... Y 1
1004 BARLEY AWNTYPE Awn Type Presence or absence of awns or Y Morphological descr... Alpha/numeric descrip... Y 3
1005 BARLEY AWNROUGH Awn Roughness Surface roughness characteristic Y Morphological descr... Alpha/numeric descrip... Y 3
1006 BARLEY AWNDECIDU Awn Deciduousn... Proportion of awns falling off prior Y Morphological descr... Alpha/numeric descrip... Y 3
Showing rows: 4470 of 4470
Connected to: https://training.ars-grin.gov/GRINGlobal/GUI.asmx


Search
Awn Type
Number of accessions (21855)
Equal to
1=AWNED
2=AWNED ON PRIMARY ROWS, AWNLETTED ON LATERAL ROWS
3=AWNED ON PRIMARY ROWS, AWNLESS ON LATERAL ROWS
4=AWNLETED
Spike Row Number
Number of accessions (24080)
Equal to
2=TWO ROWED
3=TWO ROWED, DEFICIENS
5=IRREGULARE; 2 AND 6 CHARACTERS ON THE SAME SPIKE.
6=SIX ROWED
MIX=ROW MIXED FOR SPIKE ROW NUMBER

… to be continued …

- SUGARBEET