Millard, Mark

From: Kurt Endress <kurtendress@gmail.com>
Sent: Friday, January 08, 2016 1:13 PM
To: Bockelman, Harold
Cc: feedback@ars-grin.gov
Subject: Re: searching for winter wheat landraces

Categories: 00 0 Moved

Harold,

Sorry to doubt you, I didn't completely understand what you did. I can see the problem now, and it isn't going to be easy to get the correct answer with the search tool.

The way the Search Engine works it will only consider one inventory row when calculating the results. In the case of accession CItr 2034 the HABIT W observation is linked to inventory CItr 2034 TR81AZ SD which isn't available so the inventory fails to be true for both availability and habit. That accession has a different inventory that is available: CItr 2034 TR01ID SD. But the Search Engine doesn't consider both inventories at once when evaluating the accession, just one at a time. It may be impossible to get the SE/ST to give the right answer in this case.

If I was writing the SQL for this I would join the inventory table in two different times or intersect the results of two separate queries, much like you did. The Search Tool would currently do anything that complicated (but might in a future version I already wrote).

Kurt

On Fri, Jan 8, 2016 at 1:54 PM, Bockelman, Harold <Harold.Bockelman@ars.usda.gov> wrote:

> Kurt:
>
> The other queries I did for total number of landrace accessions and total number of winter habit accessions included availability also.
>
> Harold
>
> **From:** Kurt Endress [mailto:kurtendress@gmail.com]
> **Sent:** Friday, January 08, 2016 11:44 AM
> **To:** Bockelman, Harold
> **Cc:** feedback@ars-grin.gov
> **Subject:** Re: searching for winter wheat landraces
>
> Harold,
>
> It looks to me like its simply the difference between accessions with available inventory of not.
>
> When I query the accession dataview without reference to inventory availability:

@accession.improvement_status_code = 'LANDRACE'
AND @site.site_id IN (19)
AND @crop_trait.crop_id IN (65)
AND @crop_trait.coded_name = 'HABIT'
AND @crop_trait_code.code = 'W'
AND @accession.status_code = 'ACTIVE'

I find 9409 accessions, but If I add your availability requirements:

@accession.improvement_status_code = 'LANDRACE'
AND @site.site_id IN (19)
AND @crop_trait.crop_id IN (65)
AND @crop_trait.coded_name = 'HABIT'
AND @crop_trait_code.code = 'W'
AND @accession.status_code = 'ACTIVE'
AND @inventory.is_distributable = 'Y'
AND @inventory.is_available = 'Y'

I find the same 5345 accessions as you. Did your spreadsheet manipulations include inventory availability factors?

Kurt

On Fri, Jan 8, 2016 at 12:12 PM, Bockelman, Harold <Harold.Bockelman@ars.usda.gov> wrote:

I am trying to help a requestor come up with a list of winter habit landrace wheat accessions.

I have tried various kinds of queries in the ST and come up with odd/low numbers.

I did the following query (set up with QBE) where the crop=WHEAT and NSGC inventory is available and accession is active and landrace:

@crop_trait.crop_id IN (65) AND @crop_trait.coded_name = 'HABIT' AND @crop_trait_code.code = 'W' AND @site.site_id IN (19) AND @accession.status_code = 'ACTIVE' AND @accession.improvement_status_code = 'LANDRACE' AND @inventory.is_distributable = 'Y' AND @inventory.is_available = 'Y'

This returns a total of 5345 accessions.

I have also tried this query by starting out in the accession table, adding inventory, and then crop trait. The result is the same = 5345.

This number didn't seem right based on my past experience. So, I did an old-school thing and retrieved a complete list of landrace wheats (27935) and separately a list of winter habit wheats (21502), exported them to a tab delimited file and imported them into FoxPro (yes, I still use foxpro). I related the two files and came up with 9218, which is more like the number I expected.

I did this same query in GG Public starting with a descriptor query and then adding the improvement status=landrace. The query returned = 9218, the same as foxpro!

So, how do I do this in ST and get the right answer?

Help!

Harold E. Bockelman, Supervisory Agronomist / Curator

National Small Grains Collection

U.S. Department of Agriculture - Agricultural Research Service

1691 S. 2700 W.

Aberdeen, Idaho 83210 USA

Tel. 208-397-4162 ext. 112

e-mail Harold.Bockelman@ars.usda.gov

www.ars.usda.gov/pwa/aberdeen

Get more information: www.ars.usda.gov