Seeds of Success - Diversity and impact of collections conserved in the USDA National Plant Germplasm System

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**DRAFT**

* this is a working document
* at this stage the majority of the effort of the authors has been placed into developing a series of graphic/tables that alllows an exploration of the data (see results).
* The text within the document is preliminary and is expected to undergo major revisions based in part on input from outside contributors, as such much of the written content is merely an outline of what is to be expected.
* (from Colin- we need to provide a report to BLM. But for the academic paper, I personally think we should collaborate with BLM to talk about use in general including for restoration. This would be a much stronger paper, because overall the CWR and other useful plants aren’t that many)

# Abstract

Summarize the relationship between the BLM Seeds Of Success (SOS) program and the USDA ARS NPGS conservation efforts. These two organizations are collaborating on collecting, conserving, and making available for use a wide diversity of native plants occurring on public lands.

# Introduction

The Seeds of Success (SOS) program was established in 2001 to facilitate the collection of native seeds. To make use of the collected materials, the program partners with land management agencies to support the re-vegetation of disturbed or degraded areas, academic and professional partners to promote and advance scientific research, and the United States Department of Agriculture (USDA) for the long term preservation of species genetic diversity.

The Seeds of Success program provides the boots on the ground effort in the collection of native seed, particularly for restoration. The program partners with the Agricultural Research Service of the USDA to store, maintain, and distribute the seeds collected. The Pullman, Washington section of the ARS is the group responsible for the initial on boarding and entering of the seeds into the Genetic Resource Inventory Network (GRIN) as well as maintaining the seeds in environments that support preservation.

* fill this out to capture aims

This article provides an overview of the diversity of plants collected by the SOS program. It then examines the conservation of this diversity within the USDA Agricultural Research Service National Plant Germplasm System (NPGS) and the distribution of samples from the NPGS to researchers. Particular focus is given to crop wild relatives which are useful as genetic resources for the improvement of cultivated plants, and other species which have been used as sources of food, medicine, forage, and other purposes.

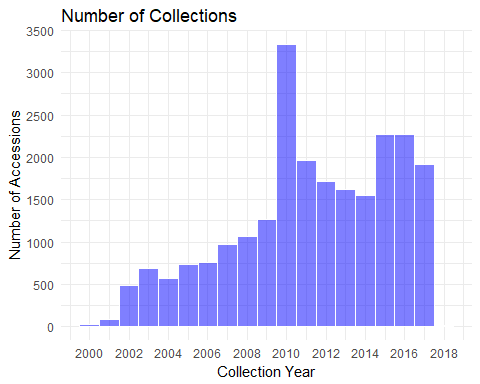
# Methods

* data acquisition
  + SOS BLM: Information regarding the SOS collection was provided as a csv file by the Seeds of Success Program National Collection Curator in June of 2018. This dataset is continually updated as more field collecting occurs. All data from the years 2017 and earlier is assumed to be correct and complete. The data collected by the SOS program contains a rich set of specific information regarding the plant from which seed is collected as well as the geographic provenance and habitat that the plant was collected from. This dataset is made available by request only and can only be used with the express permission of the BLM SOS program.
  + GRIN Global : The NPGS’s Germplasm Resource Information Network(GRIN-Global) provides public access to informationa regardin accessions maintained by the System. The data is publicly available online. GRIN Global data for all SOS accessions were retrieved from the database by selecting all accessions that have an action\_name\_code of “SOS” and stored as csvs.
  + USDA ARS Pullman office: Before assessing the datasets a meeting of individuals involved with the management of the SOS accession was held to identify the primary questions, define the process of transferring the accessions between the agencies, and understand the processing and management of the collections once they enter the NPGS. **should we reference some of the individuals from pullman here**
* data processing
  + rmarkdown : The datasets were processed, joined, and queried using the statistical programming language R. Specific libraries that were used include: plyr, tidyr, dplyr, and ggplot2. The report is compiled as an RMarkdown document to help with the reproducibility of the content as the relationship between the two organizations continues to develop. **will this stay an in house document or will it be make public.**

# Results

The results are split into sections based on the primary questions we attempted to answer. We should probably highlight the questions earily in the document but for now ther are listed here.

1. How diverse is the SOS collection?
2. How many of the SOS accessions can be identified as crop wild realtives (CWR), wild utilized species (WUS), and/or economically valuable plants (i.e. listed in GRIN World Economic Plants)?
3. What is the level of representation of SOS collections within the NPGS?
4. Where are SOS accessions curated within the NPGS?
5. What is the state of SOS collections in NPGS with regard to viability?
6. Who requests SOS accessions from NPGS and for what purposes?



The figure above illustrates the number of accessions collected by the SOS program over time. At this point in time the 2018 sample have not been added to the SOS databased and therefore are not represented on this figure.

## Diversity

## # A tibble: 1 x 4  
## `All Accessions` `Total Number of F~ `Total Number of~ `Total Number of~  
## \* <int> <int> <int> <int>  
## 1 23577 176 1153 5651

This Seeds of Success program since its inception has collected a total of 23577 accessions. These are comprised of 5651 unique taxa from 1153 genera from 176 plant families.

* this are interesting numbers but some knowledge on how they relate to the total number of species present in the country might make the factoids stand out some more **CK- I agree. make summary stats for national level. Check out Flora of North America as a source.**

The [Flora of North America Association](http://floranorthamerica.org/Outreach/science_outreach) provides a published reference source that provides a comrehesive and systematic account of the plant species in North American North of Mexico.

Species descriptions are written and reviewed by experts from the systematic botanical community worldwide, based on original observations of living and herbarium specimens supplemented by a crucial review of the literature. Each treatment includes scientific and common names, taxonomic descriptions, identification keys, distribution maps, illustrations, summaries of habitat and geographic ranges, pertinent synonomy, chromosome numbers, phenology, ethnobotanical uses and toxicity, and other relevant biological information. [FNA Introduction](http://floranorthamerica.org/introduction)

As of 2018, The FNA over has idenitified over 20,100 plant species that are native or naturalizes to North America north of Mexico, this includes both vascular and bryophytes. These species fall into 268 unique familes. This implies that the SOS program has collect seed from 65.7 percent of all unique familes and approximately 13.4 of all plant species native to the US and Canada.

*right now I’m using the value for the species that does not account for subspecices or var. This can be changed based on the answer to the question below.*

**it is not clear if the plant species count is based on Unique species or unique taxa. That is are sub species and varieties included?? Hoping that some one with a familiarity with this site would know**

An accession is a sample of seeds from a single sampling location and in a single point in time. Collecting is performed, as possible, with the aim of harvesting enough seeds for short term storage, long term preservation, and for distribution.

Out of the 176 families collected half of the total accessions collected come from just 5 families. These are among the most widespread and diverse plant families in the USA.

## # A tibble: 176 x 2  
## Family `Total Number of Accessions`  
## <fct> <int>  
## 1 ASTERACEAE 5303  
## 2 POACEAE 4522  
## 3 CYPERACEAE 1165  
## 4 FABACEAE 1122  
## 5 SCROPHULARIACEAE 1027  
## 6 ROSACEAE 977  
## 7 CHENOPODIACEAE 614  
## 8 APIACEAE 585  
## 9 POLYGONACEAE 582  
## 10 ONAGRACEAE 434  
## # ... with 166 more rows

## # A tibble: 1,153 x 2  
## GENUS n  
## <fct> <int>  
## 1 CAREX 664  
## 2 POA 512  
## 3 ACHNATHERUM 510  
## 4 ERIOGONUM 479  
## 5 PENSTEMON 449  
## 6 ARTEMISIA 423  
## 7 ELYMUS 407  
## 8 ATRIPLEX 379  
## 9 BOUTELOUA 378  
## 10 JUNCUS 316  
## # ... with 1,143 more rows

This table shows the number of accession assocatied with the genera of all samples within the SOS data .

* It would be good to know how collections are prioritized (for collecting) by SOS. Are they looking for certain species or its is rather random? **DC I agree, this is probably best answered by a BLM representative**

####  
#I'm going to leave this out for now it doesnt add much because   
###  
  
  
# top5Fam <- c("ASTERACEAE", "POACEAE", "CYPERACEAE", "FABACEAE", "SCROPHULARIACEAE")  
#   
# family5genus <- sosData %>%  
# filter(FAMILY %in% top5Fam) %>%  
# dplyr::count(GENUS) %>%  
# arrange(desc(n))  
# family5genus  
#

## Crop wild relatives, wild utilized species, and economic plants

* add some background on value of CWR **dc- todo**

A recent inventory of U.S. crop wild relatives (Khoury et al. 2013) recognized 2500 taxa from 160 genera and 56 plant families. Of these, around 300 native species were prioritized as potentially highly useful relatives of important food crops. These include the wild cousins of crops that were domesticated by indigenous peoples in the United States, such as sunflower and squash, as well as more recent domesticates, such as blueberry, cranberry, raspberry, blackberry, and pecan. Other priority species include the northernmost relatives of Mesoamerican crops such as corn, bean, chili pepper, and cotton, as well as relatives of temperate crops first domesticated in Europe and Asia, such as onion, grape, apple, hops and walnut. If properly collected, conserved, and made accessible to crop scientists, these crop wild relatives will constitute an extremely diverse portfolio supporting present and future crop improvement efforts.

* expand upon the k13 data source a bit to explain why we are using it. **dc- todo**
* add a bit about the various economic use categories defined by GRIN WEP and how the db was developed. Reference: Wiersema, J., León, B., 2013. World Economic Plants: A Standard Reference, Second ed. CRC Press. Taylor & Francis Group. Interactive database available online at chttps://npgsweb.ars-grin.gov/gringlobal/taxon/taxonomysearcheco.aspx **dc- todo**
* add genus by accession - CWR WUS WEP top 20 or 50 chart/table **dc- todo**

This study is using dataset complied by Khoury et al 2013 and Wiersema and Leon 2013 to identify species that are considered crop wild relatives (CWR) and/or wild utilized species (WUS) (Khoury et al. 2013), or economic plants (WEP). The chart below is defining the primary acronyms that are used in the remainder of this document

## # A tibble: 7 x 2  
## Acronym Meaning   
## <chr> <chr>   
## 1 SOS Seeds of Success   
## 2 GRIN Germplasm Resource Information Network   
## 3 NLGRP National Laboratory Genetic Resource Presevation  
## 4 WUS Wild Utilized Species   
## 5 K13 Khoury et al 2013   
## 6 CWR Crop Wild Relative   
## 7 WEP Economic Plant

The table below illustrates the total number of genera and taxa listed in the datasets. The SOS, K13, and WEP data sets reference plants found in the USA.

## Total Number of Genera Total Number of Species  
## SOS 1153 2693  
## CWR in K13 160 2488  
## WUS in K13 833 2101  
## WEP 1297 3655

The following table displays the number and proportion of SOS accessions that could be classified by Khoury et al. 2013 as CWR and/or WUS, or by Wiersema and Leon 2013 as a WEP.**CK - list CWR then WUS then WEP, always in that order. Also I think this table would be better horizontal rather than vertical**

## # A tibble: 11 x 2  
## label `SOS Collection`  
## <chr> <dbl>  
## 1 Total Accessions 23577   
## 2 Total Number of Taxa 5651   
## 3 Taxa that are CWR per K13 700   
## 4 Percent of SOS Accessions that are CWR per K13 2.97  
## 5 Genera that are CWR per K13 94   
## 6 Taxa that are WUS per K13 985   
## 7 Percent of SOS Accessions that are WUS per K13 4.18  
## 8 Genera that are WUS per K13 465   
## 9 Taxa that are WEP 1081   
## 10 Percentage of SOS Accessions that are WEP 4.58  
## 11 Genera that are WEP 505

## Conservation

The following table displays the diversity of SOS accessions that are currently maintained within the NPGS.

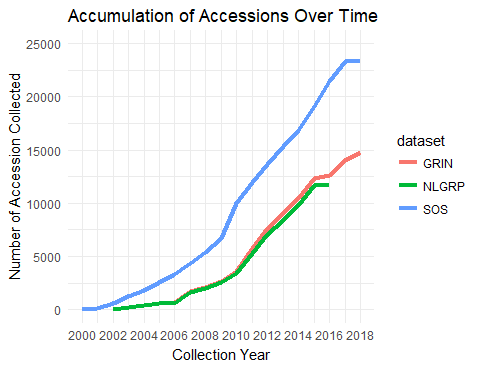
### Accessions Stored Within the ARS System

The difference in the total number of accessions collected by SOS and the number of accessions recorded in GRIN is significant. Part of this can be explained by a potential backlog of samples within the ARS and a lag in delivery time between collection and distribution. It generally takes a year from when the seeds are collect to when they are received by the ARS. There is a lagtime between collecting seed and entrance into the system due to the work of processing seed and associated data. Not all SOS accesions make it into the NPGS (why? insufficient seed?)

This graph illustrates the date that an accession was collected by the SOS program, when it was sent to ARS, and when it was backed up at NSSL. There is generally a lag time between the collection period and when ARS receives the accessions. The bar graph does show both the actual collection time and the time at which the accessions made it to the ARS. The lag effect can be seen with between the SOS(green) and ARS received (grey) in 2018. No new SOS accessions have been added but the ARS is still receiving accessions that were collected in previous years. A similar relationship can be seen between the receiving of Accessions at the ARS and the backing up of those accessions at the NLGRP (blue). While many samples were received in 2017 none of them have made it into long term back up at this point.

### Accession Maintained at NLGRP for Long Term Backup

Once within the NPGS, the quality of the seed collections are accessed and samples are transfered to the National Laboratory for Genetic Resource Preservation (NLGRP) in Fort Collins, Colorado for long term preservation in optimal conditions. The line graph below shows the the number of accessions maintained by the SOS, GRIN, and ARS over time.



This illustrates that the rate of accumulation between the three groups flucuates a bit over time. The drop in number of samples incorporated into GRIN and NLGRP in the more resent years is due in part to the time lag between data collecting, seed processing, and storage.

## # A tibble: 11 x 4  
## label `SOS Collection` `SOS in GRIN Glo~ `SOS in NLGRP`  
## <chr> <dbl> <dbl> <dbl>  
## 1 Total Accessions 23577 14767 11795   
## 2 Total Number of Taxa 5651 4088 3509   
## 3 Taxa that are CWR pe~ 700 808 732   
## 4 Percent of SOS Acces~ 2.97 3.43 3.1   
## 5 Genera that are CWR ~ 94 397 365   
## 6 Taxa that are WUS pe~ 985 586 510   
## 7 Percent of SOS Acces~ 4.18 2.49 2.16  
## 8 Genera that are WUS ~ 465 85 79   
## 9 Taxa that are WEP 1081 909 779   
## 10 Percentage of SOS Ac~ 4.58 3.86 3.3   
## 11 Genera that are WEP 505 437 383

## Where are SOS accessions Maintained in the NPGS?

The challenge of coordinating the preservation of these seeds is seen in part by how my samples become orphaned within the system, lacking a curator specialized in the pertinent genus or species. Orphaned accesions are those which do not fit into any of the existing collections. Orphaned accessions continue to be held at Pullman (W6) but without a formal curator. Note the Pullman quantities in the table include both curator and non curated accessions.

# call in sosAccessions: summaries by maintaince site or owned by \*\*\*check with Colin or Renee on this one\*\*\*  
# produce a table showing number of successions and proportion of total  
  
  
#group by location and derive number of taxon  
sosAccTaxa <- grinData %>%  
 group\_by(Accession.Prefix) %>%  
 dplyr::summarise(uniqueNumber = n\_distinct(Taxon)) %>%  
 dplyr::rename(Facility = "Accession.Prefix", UniqueTaxa = "uniqueNumber" )  
  
library(plyr)  
# subet columns needed.  
sosOwner <- count(grinData$Accession.Prefix)%>%  
 arrange(desc(freq))%>%  
 dplyr::rename(Facility = x, NumberOfAccessions = freq)%>%  
 mutate(FacilityName = c("Western Regional Plant Introduction Station, Washington", "Ornamental Plant Germplasm Center, Ohio", "National Animal Disease Center, Iowa",  
 "Plant Introduction Research, Iowa", "NSL unknown" , "Plant Genetic Resources Conservation Unit, Georgia", "SARU unknown Plants from alaska??", "Missing Data"))  
  
#join the two datasets  
sosOwner2 <- left\_join(sosOwner, sosAccTaxa, by='Facility', type='left', match='all') %>%  
 dplyr::rename(FacilityAcronym = "Facility") %>%  
 select(FacilityName, FacilityAcronym, NumberOfAccessions, UniqueTaxa)  
  
sosOwner2

## FacilityName FacilityAcronym  
## 1 Western Regional Plant Introduction Station, Washington W6  
## 2 Ornamental Plant Germplasm Center, Ohio OPGC  
## 3 National Animal Disease Center, Iowa Ames  
## 4 Plant Introduction Research, Iowa PI  
## 5 NSL unknown NSL  
## 6 Plant Genetic Resources Conservation Unit, Georgia Grif  
## 7 SARU unknown Plants from alaska?? SARU  
## 8 Missing Data <NA>  
## NumberOfAccessions UniqueTaxa  
## 1 11958 3257  
## 2 1179 549  
## 3 766 269  
## 4 404 181  
## 5 252 237  
## 6 196 65  
## 7 7 6  
## 8 5 4

The majority of the SOS collection is maintained by the ARS in Pullman, Washington (W6). This is where the native plant collection is based. Accession that are maintained at other locations are there due to the request of other curators. The are accessions that are very unlikely to be orphaned. It is difficult to determine from data alone how many of the accession at W6 an being actively stored but not regenerated.

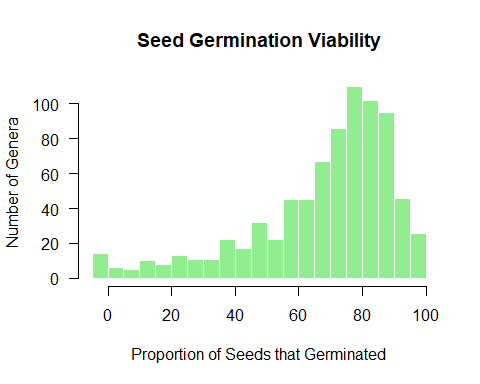
## Viability of SOS seeds

Collection and storage are only part of the story. Germination and the ability to grow out the plant to collect new seeds is a large part of what the nPGS does. Often little is known about the conditions required to germinate the seeds.

An experiment was developed and performed by Annette Miller at the NLGRP. Annette tested the viability of seeds to germinate for 794 unique genera. This accounts for 68.86 percent of all the genera collected by the SOS program. The data generated by this study illustrates what to expect when working with these plants in the future. The table below shows that percentage of seeds that were tested that were successfully geminated. The histogram groups those into viability categories.

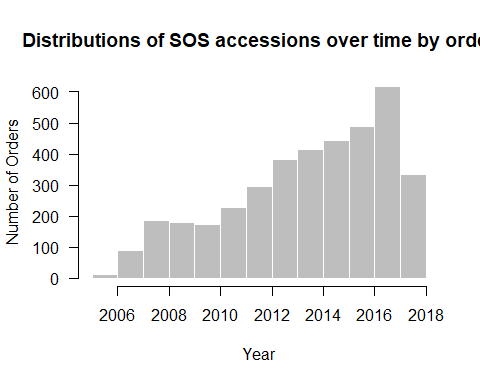
colnames(viability) <- c('Genus', 'percentViable' )  
arrange(viability, desc(percentViable))

## # A tibble: 794 x 2  
## Genus percentViable  
## <fct> <dbl>  
## 1 Cosmos 100   
## 2 Moehringia 100   
## 3 Robinia 100   
## 4 Zephyranthes 100   
## 5 Phaseolus 99.5  
## 6 Convolvulus 99   
## 7 Alopecurus 98   
## 8 Houstonia 98   
## 9 Phryma 98   
## 10 Selenia 98   
## # ... with 784 more rows



This distribution shows that the majority of the species collected by the SOS can be germinated given the current level of understanding. Species that had a very low germination success rate will require more research to understand what are the necessary conditions to promote successful germination. Until those methods are understood it may not be possible to maintain the population indefinitely.

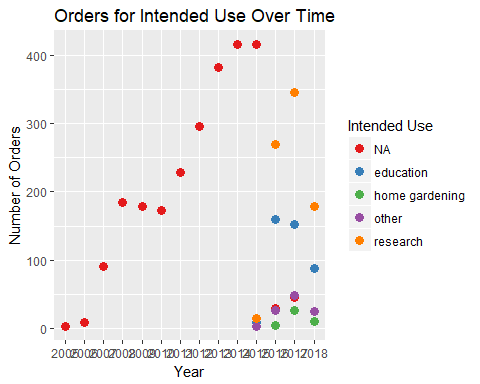
## Distribution of SOS Materials from the NPGS



The NPGS stores and distributes to researchers accesions that collected by SOS. Seeds are distributed for a number of reasons including academic research studies and educational demonstrations. Many of the distributions take place within the ARS when seeds are sent to and from various seed labs (CK - ???). The distribution of seeds is end user driven and a result the volume of seeds transferred fluctuates over time.

## Reason for Distribution Individual Shipments  
## 1 <NA> 2466  
## 2 Research 808  
## 3 Education 408  
## 4 Other 103  
## 5 Home Gardening 41

It is unclear if the reason for distribution column within the grin global accession request process is a fill in the blank or drop down. There is a lot of variablility within the supplied answers. **Should requestors be able to enter their own reason for a request** **DC most of that was sloppy data coming in, I did a bit of filtering to remove the request that are not standardized.**



If we take a look at the deliveries over time we can see there is some distinct variability over time. The NA variable is present because before 2015 the reason for distribution was not recorded.

**Need to ask renee to reproduce this dataset, something is wrong. there are more genera present in the distribution data then there are in NLGRP holdings**

## # A tibble: 9 x 3  
## `Entity Receiving Seeds` `Number Of Genera Dist~ `Samples Distribu~  
## <fct> <int> <int>  
## 1 U.S. state agencies and all ~ 514 4966  
## 2 U.S. individual no affiliati~ 476 6384  
## 3 Foreign non-commercial organ~ 297 2180  
## 4 U.S. commercial company 288 1647  
## 5 U.S. non-profit organizations 261 1360  
## 6 Foreign commercial company 99 847  
## 7 U.S. federal agency (not AID~ 87 501  
## 8 Foreign individual no affili~ 48 125  
## 9 Foreign genebank/genetic res~ 33 68

Table illustrating the total number of samples sent, including per unique genus. There has been a total of 18078 seeds and or packets distributed by the ARS that were collected by the SOS program. There are many more sample devilered then orders made because a single order request could contain mutlple samples.

**CK- these numbers dont align with the figure above**

**DC - the difference in numbers is due to the fact that a single order can contain multiple samples. There have been 4,018 order that contianed 18,078 unique samples.**

This will be a good question for the other individuals more familiar with the delivery process.

There are a total of 18078 samples that have been distributed by the NPGS. Of that 16802, are considered to be either CWR or WUS and 16037 are consider to be WEP. This is representing 465 and 447 unique genera respectively.

This chart shows the number of times an order was placed for a specific accession.

## Accession Accessions Pulled From  
## 1 <NA> 1793  
## 2 W6 27227 32  
## 3 Ames 29888 27  
## 4 W6 26755 26  
## 5 W6 45791 23  
## 6 PI 675069 21  
## 7 W6 30326 21  
## 8 W6 32535 21  
## 9 W6 32664 21  
## 10 W6 26980 19  
## 11 Ames 29887 18  
## 12 OPGC 4296 18  
## 13 W6 27346 18  
## 14 PI 664638 17  
## 15 W6 30894 16  
## 16 W6 40440 16  
## 17 Ames 29904 15  
## 18 W6 27233 15  
## 19 W6 30003 15  
## 20 W6 27315 14  
## 21 W6 30217 14  
## 22 W6 32597 14  
## 23 W6 36792 14  
## 24 W6 36875 14  
## 25 W6 40092 14  
## 26 W6 40439 14  
## 27 OPGC 4456 13  
## 28 W6 26974 13  
## 29 W6 27089 13  
## 30 W6 27212 13  
## 31 W6 30830 13  
## 32 W6 32503 13  
## 33 W6 39187 13  
## 34 OPGC 4446 12  
## 35 OPGC 4466 12  
## 36 PI 664241 12  
## 37 W6 27136 12  
## 38 W6 30043 12  
## 39 W6 30101 12  
## 40 W6 32607 12  
## 41 W6 32681 12  
## 42 W6 32746 12  
## 43 W6 46777 12  
## 44 OPGC 4273 11  
## 45 PI 664508 11  
## 46 PI 675066 11  
## 47 W6 26831 11  
## 48 W6 26841 11  
## 49 W6 27009 11  
## 50 W6 27337 11  
## 51 W6 29961 11  
## 52 W6 36710 11  
## 53 W6 36786 11  
## 54 W6 40596 11  
## 55 W6 46543 11  
## 56 W6 48232 11  
## 57 PI 664239 10  
## 58 W6 26766 10  
## 59 W6 26884 10  
## 60 W6 26987 10  
## 61 W6 27071 10  
## 62 W6 27273 10  
## 63 W6 27314 10  
## 64 W6 29952 10  
## 65 W6 30777 10  
## 66 W6 30863 10  
## 67 W6 30925 10  
## 68 W6 30948 10  
## 69 W6 30953 10  
## 70 W6 30997 10  
## 71 W6 43858 10  
## 72 W6 45020 10  
## 73 W6 46774 10  
## 74 W6 50728 10  
## 75 Ames 29872 9  
## 76 Ames 29891 9  
## 77 Ames 29918 9  
## 78 Ames 29956 9  
## 79 OPGC 4265 9  
## 80 PI 664507 9  
## 81 PI 664509 9  
## 82 PI 664639 9  
## 83 PI 675239 9  
## 84 W6 26789 9  
## 85 W6 30059 9  
## 86 W6 30864 9  
## 87 W6 31005 9  
## 88 W6 39025 9  
## 89 W6 39215 9  
## 90 W6 43738 9  
## 91 W6 44429 9  
## 92 W6 45794 9  
## 93 W6 46085 9  
## 94 W6 46285 9  
## 95 W6 47457 9  
## 96 W6 48400 9  
## 97 W6 48617 9  
## 98 W6 49593 9  
## 99 Ames 32728 8  
## 100 Ames 34293 8  
## 101 OPGC 4277 8  
## 102 PI 664640 8  
## 103 PI 673346 8  
## 104 PI 674799 8  
## 105 PI 678684 8  
## 106 W6 26794 8  
## 107 W6 26971 8  
## 108 W6 27050 8  
## 109 W6 27106 8  
## 110 W6 27304 8  
## 111 W6 30007 8  
## 112 W6 30069 8  
## 113 W6 30231 8  
## 114 W6 30765 8  
## 115 W6 30875 8  
## 116 W6 30989 8  
## 117 W6 32504 8  
## 118 W6 32686 8  
## 119 W6 36733 8  
## 120 W6 40227 8  
## 121 W6 40308 8  
## 122 W6 40598 8  
## 123 W6 40600 8  
## 124 W6 43895 8  
## 125 W6 44837 8  
## 126 W6 45387 8  
## 127 W6 45920 8  
## 128 W6 46335 8  
## 129 W6 46775 8  
## 130 W6 48689 8  
## 131 W6 48818 8  
## 132 Ames 29934 7  
## 133 Ames 29940 7  
## 134 OPGC 4280 7  
## 135 OPGC 4322 7  
## 136 OPGC 4338 7  
## 137 PI 660255 7  
## 138 PI 660725 7  
## 139 PI 665545 7  
## 140 PI 665596 7  
## 141 PI 676214 7  
## 142 W6 26757 7  
## 143 W6 26761 7  
## 144 W6 26797 7  
## 145 W6 26828 7  
## 146 W6 26832 7  
## 147 W6 26835 7  
## 148 W6 26857 7  
## 149 W6 27037 7  
## 150 W6 27152 7  
## 151 W6 27191 7  
## 152 W6 27199 7  
## 153 W6 27209 7  
## 154 W6 27220 7  
## 155 W6 27253 7  
## 156 W6 27358 7  
## 157 W6 29998 7  
## 158 W6 30001 7  
## 159 W6 30052 7  
## 160 W6 30100 7  
## 161 W6 30154 7  
## 162 W6 30163 7  
## 163 W6 30184 7  
## 164 W6 30201 7  
## 165 W6 30225 7  
## 166 W6 30246 7  
## 167 W6 30344 7  
## 168 W6 30353 7  
## 169 W6 30756 7  
## 170 W6 30819 7  
## 171 W6 30840 7  
## 172 W6 32567 7  
## 173 W6 32751 7  
## 174 W6 36838 7  
## 175 W6 36929 7  
## 176 W6 38983 7  
## 177 W6 40086 7  
## 178 W6 42158 7  
## 179 W6 42301 7  
## 180 W6 43351 7  
## 181 W6 43389 7  
## 182 W6 43390 7  
## 183 W6 43391 7  
## 184 W6 44001 7  
## 185 W6 45059 7  
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## 3956 W6 49107 1  
## 3957 W6 49109 1  
## 3958 W6 49110 1  
## 3959 W6 49111 1  
## 3960 W6 49112 1  
## 3961 W6 49130 1  
## 3962 W6 49140 1  
## 3963 W6 49149 1  
## 3964 W6 49151 1  
## 3965 W6 49171 1  
## 3966 W6 49174 1  
## 3967 W6 49196 1  
## 3968 W6 49199 1  
## 3969 W6 49211 1  
## 3970 W6 49236 1  
## 3971 W6 49258 1  
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## 3973 W6 49281 1  
## 3974 W6 49291 1  
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## 3978 W6 49296 1  
## 3979 W6 49298 1  
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## 3981 W6 49300 1  
## 3982 W6 49302 1  
## 3983 W6 49313 1  
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## 3985 W6 49316 1  
## 3986 W6 49320 1  
## 3987 W6 49321 1  
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## 3989 W6 49330 1  
## 3990 W6 49331 1  
## 3991 W6 49333 1  
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## 3995 W6 49364 1  
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## 3997 W6 49395 1  
## 3998 W6 49398 1  
## 3999 W6 49409 1  
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## 4003 W6 49480 1  
## 4004 W6 49482 1  
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## 4008 W6 49498 1  
## 4009 W6 49516 1  
## 4010 W6 49522 1  
## 4011 W6 49523 1  
## 4012 W6 49533 1  
## 4013 W6 49535 1  
## 4014 W6 49540 1  
## 4015 W6 49543 1  
## 4016 W6 49553 1  
## 4017 W6 49554 1  
## 4018 W6 49555 1  
## 4019 W6 49562 1  
## 4020 W6 49577 1  
## 4021 W6 49579 1  
## 4022 W6 49581 1  
## 4023 W6 49585 1  
## 4024 W6 49594 1  
## 4025 W6 49595 1  
## 4026 W6 49611 1  
## 4027 W6 49613 1  
## 4028 W6 49628 1  
## 4029 W6 49634 1  
## 4030 W6 49648 1  
## 4031 W6 49650 1  
## 4032 W6 49669 1  
## 4033 W6 49672 1  
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## 4036 W6 49699 1  
## 4037 W6 49705 1  
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## 4039 W6 49723 1  
## 4040 W6 49725 1  
## 4041 W6 49729 1  
## 4042 W6 49736 1  
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## 4048 W6 49793 1  
## 4049 W6 49804 1  
## 4050 W6 49808 1  
## 4051 W6 49810 1  
## 4052 W6 49815 1  
## 4053 W6 49816 1  
## 4054 W6 49826 1  
## 4055 W6 49827 1  
## 4056 W6 49828 1  
## 4057 W6 49829 1  
## 4058 W6 49832 1  
## 4059 W6 49833 1  
## 4060 W6 49837 1  
## 4061 W6 49844 1  
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## 4063 W6 49852 1  
## 4064 W6 49860 1  
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## 4066 W6 49863 1  
## 4067 W6 49869 1  
## 4068 W6 49941 1  
## 4069 W6 49955 1  
## 4070 W6 49981 1  
## 4071 W6 49983 1  
## 4072 W6 49995 1  
## 4073 W6 49996 1  
## 4074 W6 50013 1  
## 4075 W6 50028 1  
## 4076 W6 50052 1  
## 4077 W6 50075 1  
## 4078 W6 50077 1  
## 4079 W6 50097 1  
## 4080 W6 50103 1  
## 4081 W6 50114 1  
## 4082 W6 50120 1  
## 4083 W6 50137 1  
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## 4086 W6 50177 1  
## 4087 W6 50222 1  
## 4088 W6 50229 1  
## 4089 W6 50249 1  
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## 4091 W6 50255 1  
## 4092 W6 50669 1  
## 4093 W6 50676 1  
## 4094 W6 50677 1  
## 4095 W6 50680 1  
## 4096 W6 50686 1  
## 4097 W6 50693 1  
## 4098 W6 50702 1  
## 4099 W6 50715 1  
## 4100 W6 50718 1  
## 4101 W6 50725 1  
## 4102 W6 50734 1  
## 4103 W6 50737 1  
## 4104 W6 50750 1  
## 4105 W6 50756 1  
## 4106 W6 50757 1  
## 4107 W6 50763 1  
## 4108 W6 50769 1  
## 4109 W6 50776 1  
## 4110 W6 50890 1  
## 4111 W6 50893 1  
## 4112 W6 50916 1  
## 4113 W6 50923 1  
## 4114 W6 50935 1  
## 4115 W6 50937 1  
## 4116 W6 50939 1  
## 4117 W6 50953 1  
## 4118 W6 50956 1  
## 4119 W6 50960 1  
## 4120 W6 50964 1  
## 4121 W6 50968 1  
## 4122 W6 50972 1  
## 4123 W6 50981 1  
## 4124 W6 51579 1  
## 4125 W6 51580 1  
## 4126 W6 51589 1  
## 4127 W6 51595 1  
## 4128 W6 51599 1  
## 4129 W6 51611 1  
## 4130 W6 51626 1  
## 4131 W6 51635 1  
## 4132 W6 51644 1  
## 4133 W6 51656 1  
## 4134 W6 51661 1  
## 4135 W6 51663 1  
## 4136 W6 51672 1  
## 4137 W6 51674 1  
## 4138 W6 51685 1  
## 4139 W6 51688 1  
## 4140 W6 52640 1  
## 4141 W6 52712 1  
## 4142 W6 52720 1  
## 4143 W6 52729 1  
## 4144 W6 52743 1  
## 4145 W6 52751 1  
## 4146 W6 52764 1  
## 4147 W6 52780 1  
## 4148 W6 52787 1  
## 4149 W6 52789 1  
## 4150 W6 52822 1  
## 4151 W6 52824 1

This chart shows the number of times an order was place for a specific accession.

## # A tibble: 1,885 x 3  
## Taxon `Total Delivered` `Total Packets??`  
## <fct> <int> <dbl>  
## 1 <NA> 1627 311  
## 2 Achnatherum hymenoides 246 299  
## 3 Salvia columbariae 152 310  
## 4 Achillea millefolium 105 304  
## 5 Poa secunda 88 299  
## 6 Koeleria macrantha 83 285  
## 7 Asclepias speciosa 71 298  
## 8 Linum lewisii 71 260  
## 9 Elymus elymoides 70 268  
## 10 Poa fendleriana 69 244  
## # ... with 1,875 more rows

This chart shows the number of times a specific taxon was has been delivered. These deliveries could include multiple accessions.

## # A tibble: 2,339 x 4  
## Taxon `Total Taxon` `Total Delivere~ `Total Packets?~  
## <fct> <int> <int> <dbl>  
## 1 Young, Carolyn, Noble ~ 17 196 220  
## 2 Roybal, Carla, Norther~ 15 162 69  
## 3 Van Herwijnen, Zeger, ~ 65 142 307  
## 4 Cramer, Chris, New Mex~ 80 138 258  
## 5 Ford, Tim, IPPFBE, Inc~ 5 127 280  
## 6 Rodriguez, Jessica, , ~ 124 126 299  
## 7 Arnow, Jonathan, Alpin~ 88 114 299  
## 8 Rhode, David, Desert R~ 111 112 209  
## 9 Kolano, Bozena, Univer~ 26 101 299  
## 10 Tucker, Arthur O., Del~ 84 85 188  
## # ... with 2,329 more rows

This graphic shows which usert is receiving the greatest diversity of taxa. **again the question of the base unit is here. It would seem that a packet is the smallest unit counted but I do not know**

# to Do

* Investigate reasons for use- narrative description in GRIN Global
* feedback on existing process

# Discussion

* there is a lot of room for narrative and exploration of these results. Collaboration with individuals more involved in the processing of these accession need to be pulled in to provide opinions and highlight significance of results per each section