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

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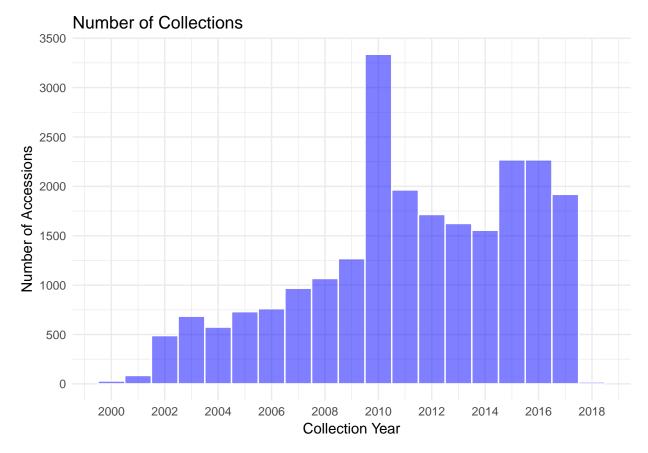
Abstract

Summarize the relationship between the BLM Seeds Of Success(SOS) program and the USDA ARS division. These two organizations are leading the nation in collecting, conserving, and preserving the native plants present on public lands.

Introduction

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

- fill this out to capture aims
- continue to add content to this as I learn more; ask Colin and Stephanie to add to this background



Detailed collection methodologies mean that SOS accessions have information about the species collected, the region it was collected from, the land management agency where that collection occurred, and positional data in the form of latitude, longitude, and elevation. This data provides information about the seeds collected but does not tell us anything about what happened to the seeds after the collection occurs. The article is meant to create those connections and tell the full story of how these seeds are providing services to the landscape and understanding of the species. This will be done by accessing how many of these collections represent economically useful and/or crop wild relatives at both the national and international scale. The relationship between the SOS collections and the ARS collection will be examined to determine how many collections are store in long term storage and who is using the seeds outside of the ARS and for what purpose.

• this can be added to. It's the first time we talk about CWR and there need more of an introductions Specific the two datasets used

Methods

- data aqusition
 - SOS BLM: Information regarding the SOS collection was provide as a csv file by the Seeds of Succes Program National Collection Curator in June of 2018. This dataset is 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 the SOS program contains a rich set of specific information regarding the plant from which seed is collected as well as the geography regiona and ecosystem that the plant was found with. Is the blm data a public dataset? How can people access this data
 - GRIN GLOBAL: The USDA's National Plant Germplasm System has utilised the Germplasm Resource Information Network(GRIN) to provide public access to informing regarding the assession maintained by the USDA. The data is public avaiable throught the desktop software program,

- GRIN-Global. This data can also be accessed through a web site hosted by Crop Trust, Biodiversity International, and the USDA that allows for the quering of the GRIN-global database. The website can be found here All datasets containing information from on the USDA accession were retrived from the GRIN global databased and stored as csvs.
- 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 transfering the collections between the agencies, and understand the processing and management of the collections once they enter the USDA long term storage system. should we reference some of the individuals from pullman here
- data processing
 - rmarkdown: The datasets were processed, joined, and query using the statistically programming language R. The report is compiled as an RMarkdown document to help with the reporducability of the content as the relationship between the two organizations continues to develop. with this stay an in house document or will it be make public.

Results

Diversity

• just charts for the momments. I want to generate a map for this section

This Seeds of Success program has collected a total of 23577 seed samples. Of which 176 plant families 1153 plant genus and 2693 unique sub species are represented.

• this area intesting numbers but some knowledge on how they relate to the total number of species present in the country might make the factiods stand out some more

```
## # 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
```

An accession is a collection of seeds from a single sampling location. There are enough seeds in each accession to split the collection for short term storage, long term preservation, and distribution. Out of the 176 familes collected half of the total accessions collected come from just 5 families. The commonality and number of species represented by the top 5 collected families may explain the observed relationship.

Crop wild relatives and other economic plants"

The importance of this collection is increased by the fact that many of the seed taxa that were collected by the SOS program are defined as either Crop Wild Relatives or World Economic Plants. Crop Wild Relatives (CWR) are the genetic predecessors of modern crops and are found throughout the diverse ecological and bio physiological environments of the world. The variability in growing conditions and potential geographic isolation between stands has shown that CWRs contain a higher level of genetic diversity (reference this). The subsequent traits found within CWR are used to add to the resistance, quality, and breeding efficiency of modern crops (reference this).

- add a bit about the various economic use categories define by GRIN
- talk about the WEP data set; how it was developed and why we are using it get reference for the WEP dataset received from Daniel.
- expand upon the k13 data source a bit to explain why we are using it.

```
## # 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 Utilize Species
             Khoury et al 2013
## 5 K13
## 6 CWR.
             Crop Wild Relative
## 7 WEP
             World Economic Plants
##
           Total Number of Genus Total Number of Species
## SOS
                             1153
                                                       2693
## K13 WUS
                              833
                                                       1361
## K13 CWR
                              160
                                                       1542
## WEP
                             3354
                                                       7926
```

The above table illistrate the diversity of families, genus, and species represented with the various datasets. The SOS and K13 data sets reference plants found in **North America or US** the World Economic Plants is a world wide data set and hence has significantly more diversity. In the case of preservation it is important to understand the total diversity represented as well as the sample size of that diversity. We can test that by observing what proporition of the accessions collected by SOS are classified are a Wild Utilized Species, Crop Wild Relative, or a World Economic Plant.

```
All Accession Total Taxon WUS Taxon
## SOS Collection
                           23577
                                        5651
                                                   1001
##
                  Percent of Accessions that are WUS CWR taxon
## SOS Collection
                                                             737
                                                  4.25
##
                  Percent of Accessions that are CWR WEP Taxon
## SOS Collection
                                                  3.13
                                                            1137
                  Percentage of Accessions that are WEP
## SOS Collection
                                                     4.82
```

Conservation

The Seeds of Success program provides the boots on the ground effort in the collection of seed resources. 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.

stored within ARS system

##		All Acc	ess	ion Total	Taxon	WUS Tax	on.	
##	SOS Collection		235	577	5651	10	001	
##	GRIN Collection		147	767	4088	8	808	
##		Percent	of	Accession	ns that	are W	S CWR	taxon
##	SOS Collection					4.2	:5	737
##	GRIN Collection					3.4	:3	586
##		Percent	of	Accession	ns that	are CW	R WEP	Taxon
##	SOS Collection					3.1	.3	1137
##	GRIN Collection					2.4	:9	931
##		Percenta	age	of Access	sions t	hat are	WEP	
##	SOS Collection						4.82	
##	${\tt GRIN} \ {\tt Collection}$						3.95	

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.

For example, a total of 21389 accessions were brought into the SOS collection before 2017. The ARS is still processing SOS data from 2017. Therefore, 69.04 percent of the samples collected by SOS have been brought into the ARS and GRIN Global system.

- I'm not sure given the data sets that I have I'll be able to join the two features. All the SOS ID are lost in the grin query.
- this is an SOS-GRIN-UNION sheet that was send by the SOS, I'm just exploring here for a bit

Using a dataset generated by the BLM which joins all SOS data and all ARS data we were able to acess difference across the two data records.

##										Co	ond:	ition	${\tt NumberOfAccession}$
##	1					IN	SOS_	NOT	IN	ARS	OR	${\tt GRIN}$	10311
##	2						IN	SOS	IN	ARS	IN	GRIN	13155
##	3						IN	SOS	_IN	ARS	NO	GRIN	112
##	4										NO	C SOS	1
##	5								I	RMRS	NO	C SOS	154
##	6	SOS	COLL	IN	ARS	and/or	GRIN	N BU	г ис	II TO	N SC	DS DB	727

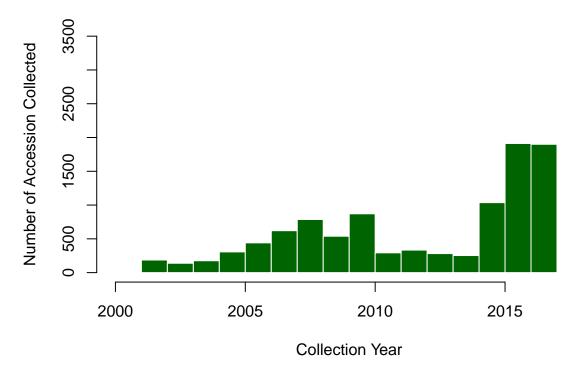
• this is a union that was performed by the SOS program. I've not been able to reproduce the process via GRIN: probably could with help, but

interesting points

- 1. 10,000 samples from SOS are not in GRIN or ARS. ~ 2000 of these were sampled in 2017 or later and that could explain why the two data sets are not connecting
- 2. 727 samples are entered into GRIN as SOS samples but are not present on BLM data

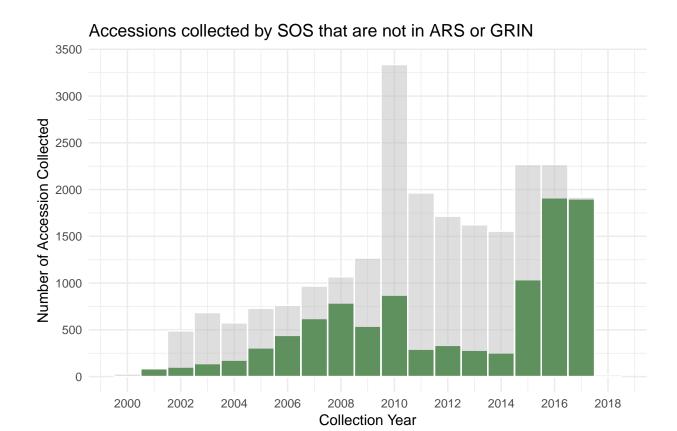
again this is exploratory I did not generate the join between the ARS AND SOS data sets to produce these comparisons but the data set brings up some interesting questions on the process. I bring this up again because it may be difficult to reproduce this dataset sence the individual who generated it has left the BLM

Accessions collected by SOS that are not in ARS or GRIN



This is the original plot of the data

Below is the comparison against all the data collected by the



This graph illistrates the proportion of accession collected by the SOS program that have made it into the ARS system. As the grey and green bars become closer in height less of the collections are stored in the ARS system. The high proportion of samples not intergated into the ARS from the more recent years may represent a backlog in the intergration of the data into the ARS.

How much is at NLGRP for long term backup

Once within the ARS system the quality of the seed collections are accessed and samples that are deemed beneficial to preserve over an extended period of time are transfer to the National Laboratory for Genetic Resource Preservation in Fort Collins, Colorado. The NLRGP specializes in the long term storage of genetic resources. If a set of seeds is stored at NLGRP it can be assured that it is protect and preserved to the highest standard. The coordinating efforts to bring seeds into the long term storage is essential to the longevity of the genetic material store within the seeds.

##	ŧ	All	Acce	essi	ion	Total	Ta	axon	WUS	Taxoı	ı		
##	SOS Collection			235	577		Ę	651		100	L		
##	GRIN Collection			147	767		4	1088		808	3		
##	NLGRP Collection			117	795		3	3509		732	2		
##	ŧ	Perc	ent	of	Acc	ession	ns	that	are	e WUS	CWR	taxon	
##	SOS Collection									4.25		737	
##	GRIN Collection									3.43		586	
##	NLGRP Collection									3.10		510	
##	ŧ	Perc	ent	of	Acc	ession	ns	that	are	e CWR	WEP	Taxon	
##	SOS Collection									3.13		1137	
##	GRIN Collection									2.49		931	
##	NLGRP Collection									2.16		801	

```
## Percentage of Accessions that are WEP
## SOS Collection 4.82
## GRIN Collection 3.95
## NLGRP Collection 3.40
```

How much adopted by Curators, how much "orphaned" at W6 - need to pull from GRIN Global (examine "site") #Not sure how to answer this some at this time

The challenge of coordinating the preservation of these seeds is seen in part by how my samples become orphaned within the system. Orphaned seeds are those which do not fit into any of the existing collections. As a results seed curators need to assess how the seeds can best be integrated and is it worth incorporating that sample. While this decision making process is occurring the seeds are not being backed up and are not grown out to plants to replenish the existing seed population.

##				FacilityName	FacilityAcronym
##	1	Western Regional Pl	lant Introdu	ction Station, Washington	W6
##	2	Orn	namental Pla	ant Germplasm Center, Ohio	OPGC
##	3		National An	imal Disease Center, Iowa	Ames
##	4		Plant In	troduction Research, Iowa	PI
##	5			NSL unknown	NSL
##	6	Plant Genetic	Resources C	Conservation Unit, Georgia	Grif
##	7		SARU unk	nown Plants from alaska??	SARU
##	8			Missing Data	<na></na>
##		${\tt NumberOfAccessions}$	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 accession that are very unlikely to be orphaned. It is different to determine from data alone how many of the accession at W6 an being actively store 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 ARS supports. The troublesome fact about the SOS seeds is that these species have not often been collected and maintained in seed banks before the initiation of the SOS program. Often little is known about the conditions required to germinate the seeds.

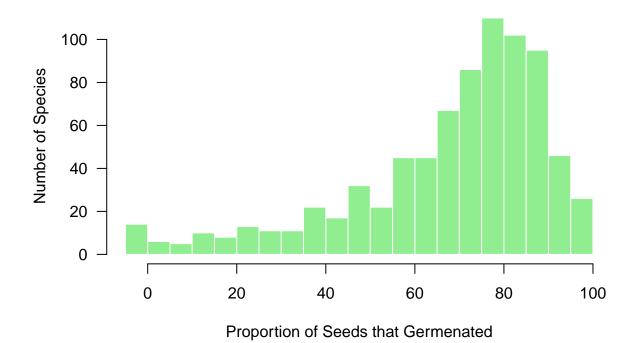
An experiment was developed and performed by Annette Miller of NLGRP. Annette tested the viability of seeds to germinate for 794 unique genus. This accounts for 68.86 percent of all the genus collected by the SOS program. The data generated by this study illustrates what to expect when working with these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

```
library(dplyr)
viability <- read.csv("H:\\SOS_Project\\analysisData\\generaAverageGermination.csv")</pre>
```

```
viability <- tbl_df(viability)
colnames(viability) <- c('Genus', 'percentViable')
arrange(viability, desc(percentViable))</pre>
```

```
## # A tibble: 794 x 2
##
      Genus
                    percentViable
##
      <fct>
                             <dbl>
##
    1 Cosmos
                             100
                             100
##
    2 Moehringia
    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
```

Seed Germentation Viability



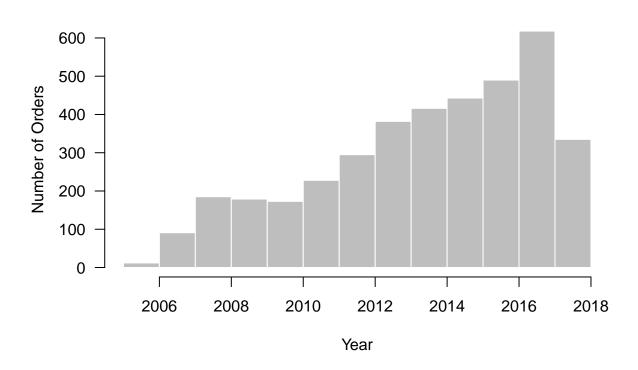
This ditribution shows that the majority of the species collected by the SOS can be germentated given the current level of understanding. Species that had a very low gemination success rate will require more research to understand what are the necessary conditions to promote successful germination. Until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

Distribution of SOS Materials

##

The ARS systems stores and distributes the seeds that are 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. The distribution of seeds is end user driven and a a result the volume of seeds transferred fluctuates over time.

SOS Orders Over Time

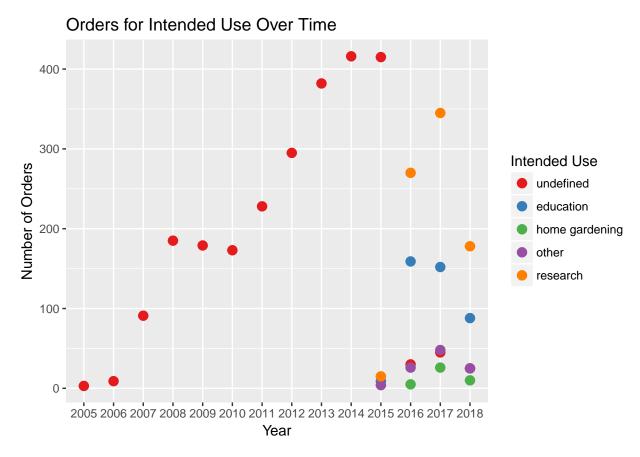


The seeds can be used for multiple reasons but by far Research and Education are the top two requests. The first bin on this graph is 2005 and the last is 2017.

```
## 1
## 2
## 3
## 4
## 5
## 6
## 7
## 8
## 9
## 10
## 11
## 12 If possible we would like as much of each of these ascensions. Preferably we would have access to
## 13
## 14
## 15
## 16
```

```
## 17
## 18
## 19
## 20
## 21
## 22
      Individual Shipments
##
## 1
                        2658
## 2
                         808
                         408
## 3
## 4
                         103
## 5
                          41
## 6
                          31
## 7
                           3
## 8
                           1
## 9
## 10
                           1
## 11
                           1
## 12
                           1
## 13
## 14
                           1
## 15
## 16
                           1
## 17
## 18
## 19
                           1
## 20
                           1
## 21
                           1
## 22
                           1
```

These values are written in by individuals who place the order so while this shows trends there are many unique options that do not fall into a group because of the extra text.



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

Table illustrating the total number of seeds sent per genus. There has been a total of 18078 seeds distributed by the ARS that were collected by the SOS program. At the same time im a little wary of this data count. why would someone order a single seed. 2/3 of all order are under 10 seeds. Does that make sense This will be a good question for the other individuals more familiar with the deliverary process.

## :	# A tibble: 9 x 3		
##	EntityRecievingSeeds	NumberOfGenusDelive~	IndividualSeedsDeli~
##	<fct></fct>	<int></int>	<int></int>
##	1 U.S. state agencies and all u^{\sim}	514	4966
## :	2 U.S. individual no affiliation	476	6384
## 3	3 Foreign non-commercial organi~	297	2180
## 4	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	8 Foreign individual no affilia~	48	125
## 9	9 Foreign genebank/genetic reso~	33	68

There are a total of 18078 seeds that have been distributed by the ARS. Of that 16802, are considered to be either Wild Utilized Plants or Crop Wild Relatives. This is representing 465 unique genus

##		Acce	ession	Accessions	${\tt Pulled}$	${\tt From}$
##	1		<na></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
##	186	W6 45106	7
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## 3748	W6 47451	1
## 3749	W6 47456	1
## 3750	W6 47472	1
## 3751	W6 47479	1
## 3752	W6 47486	1
## 3753	W6 47488	1
## 3754	W6 47490	1
## 3755	W6 47499	1
## 3756	W6 47501	1
## 3757	W6 47510	1
## 3758	W6 47516	1
## 3759	W6 47527	1
## 3760	W6 47538	1
## 3761	W6 47549	1
## 3762	W6 47562	1
## 3763	W6 47563	1
## 3764	W6 47574	1
## 3765	W6 47575	1
## 3766	W6 47576	1
## 3767	W6 47602	1
## 3768	W6 47622	1
## 3769	W6 47666	1
## 3770	W6 47683	1
## 3771	W6 47687	1
## 3772	W6 47700	1
## 3773	W6 47715	1
## 3774	W6 47740	1
## 3775	W6 47754	1
## 3776	W6 47755	1
## 3777	W6 47756	1
## 3778	W6 47765	1
## 3779	W6 47767	1
## 3780	W6 47875	1
## 3781	W6 47948	1
## 3782	W6 47980	1
## 3783	W6 47987	1

##	3784	W6	48016	1
##	3785	W6	48024	1
##	3786	W6	48025	1
##	3787	W6	48045	1
##	3788	W6	48050	1
##	3789	W6	48052	1
##	3790	W6	48071	1
##	3791	W6	48098	1
##	3792	W6	48106	1
##	3793	W6	48125	1
##	3794	W6	48127	1
##	3795	W6	48132	1
##	3796	W6	48133	1
##	3797	W6	48135	1
##	3798	W6	48136	1
##	3799	W6	48143	1
##	3800	W6	48145	1
##	3801	W6	48146	1
##	3802	W6	48147	1
##	3803	W6	48154	1
##	3804	W6	48156	1
##	3805	W6	48157	1
##	3806	W6	48161	1
##	3807	W6	48165	1
##	3808	W6	48206	1
##	3809	W6	48220	1
##	3810	W6	48223	1
##	3811	W6	48226	1
##	3812	W6	48236	1
##	3813	W6	48241	1
##	3814	W6	48261	1
##	3815	W6	48263	1
##	3816	W6	48282	1
##	3817	W6	48287	1
##	3818	W6	48306	1
##	3819	W6	48307	1
##	3820	W6	48308	1
##	3821		48322	1
##	3822	W6	48324	1
##	3823	W6	48326	1
##	3824		48332	1
##	3825	W6	48338	1
##	3826		48350	1
##	3827		48353	1
##	3828		48369	1
##	3829		48375	1
##	3830		48389	1
##	3831		48398	1
##	3832		48412	1
##	3833		48413	1
##	3834		48448	1
##	3835		48455	1
##	3836		48462	1
##	3837	W6	48463	1

##	3838	W6	48464	1
##	3839	W6	48465	1
##	3840	W6	48467	1
##	3841	W6	48485	1
##	3842	W6	48486	1
##	3843	W6	48487	1
##	3844	W6	48489	1
##	3845	W6	48495	1
##	3846	W6	48508	1
##	3847	W6	48509	1
##	3848	W6	48512	1
##	3849	W6	48521	1
##	3850	W6	48526	1
##	3851	W6	48533	1
##	3852	W6	48541	1
##	3853	W6	48544	1
##	3854	W6	48545	1
##	3855	W6	48546	1
##	3856	W6	48573	1
##	3857	W6	48579	1
##	3858	W6	48583	1
##	3859	W6	48586	1
##	3860	W6	48588	1
##	3861	W6	48597	1
##	3862	W6	48607	1
##	3863	W6	48610	1
##	3864	W6	48614	1
##	3865	W6	48619	1
##	3866	W6	48624	1
##	3867	W6	48625	1
##	3868	W6	48635	1
##	3869	W6	48644	1
##	3870	W6	48645	1
##	3871	W6	48646	1
##	3872	W6	48652	1
##	3873	W6	48653	1
##	3874	W6	48658	1
##	3875	W6	48671	1
## ##	3876	W6 W6	48675	1
##	3877 3878	W6	48676	1
##		W6	48677	1
##	3879	W6	48678 48681	1
##	3880 3881	W6	48683	1
##	3882	W6	48694	1
##	3883	W6	48695	1
##	3884	W6	48696	1
##	3885	W6	48698	1
##	3886	W6	48701	1
##	3887	W6	48705	1
##	3888	W6	48706	1
##	3889	W6	48707	1
##	3890	W6	48716	1
##	3891	W6	48723	1
			-	-

##	3892	W6	48763	1
##	3893	W6	48768	1
##	3894	W6	48769	1
##	3895	W6	48777	1
##	3896	W6	48783	1
##	3897	W6	48793	1
##	3898	W6	48797	1
##	3899	W6	48798	1
##	3900	W6	48805	1
##	3901	W6	48808	1
##	3902	W6	48819	1
##	3903	W6	48820	1
##	3904	W6	48823	1
##	3905	W6	48825	1
##	3906	W6	48829	1
##	3907	W6	48830	1
##	3908	W6	48831	1
##	3909	W6	48832	1
##	3910	W6	48833	1
##	3911	W6	48844	1
##	3912	W6	48848	1
##	3913	W6	48867	1
##	3914	W6	48868	1
##	3915	W6	48872	1
##	3916	W6	48874	1
##	3917	W6	48877	1
##	3918	W6	48882	1
##	3919	W6	48896	1
##	3920	W6	48900	1
##	3921	W6	48940	1
##	3922	W6	48941	1
##	3923	W6	48942	1
##	3924	W6	48947	1
##	3925	W6	48951	1
##	3926	W6	48965	1
##	3927	W6	48969	1
##	3928	W6		1
##	3929	W6	48973	1
##	3930	W6	48980	1
##	3931	W6	48988	1
##	3932	W6	48992	1
##	3933	W6	48993	1
##	3934	W6	48998	1
##	3935	W6	48999	1
##	3936	W6	49002	1
##	3937	W6	49004	1
##	3938	W6	49027	1
##	3939	W6	49043	1
##	3940	W6	49044	1
##	3941	W6	49051	1
##	3942	W6	49055	1
##	3943	W6	49065	1
##	3944	W6	49066	1
##	3945	W6	49068	1

##	3946	W6	49088	1
##	3947	W6	49090	1
##	3948	W6	49095	1
##	3949	W6	49096	1
##	3950	W6	49100	1
##	3951	W6	49101	1
##	3952	W6	49102	1
##	3953	W6	49104	1
##	3954	W6	49105	1
##	3955	W6	49106	1
##	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
##	3972	W6	49263	1
##	3973	W6	49281	1
##	3974	W6	49291	1
##	3975	W6	49292	1
##	3976	W6	49294	1
##	3977	W6	49295	1
##	3978	W6	49296	1
##	3979	W6	49298	1
##	3980	W6	49299	1
##	3981	W6	49300	1
##	3982	W6		1
##	3983	W6	49313	1
##	3984	W6	49315	1
##	3985	W6	49316	1
##	3986	W6	49320	1
##	3987	W6	49321	1
##	3988	W6	49326	1
##	3989 3990	W6 W6	49330	1
##	3990	W6	49331	1
##	3991	W6	49333	1
##			49334	1
##	3993 3994	W6 W6	49358 49361	1
## ##	3994	w6 W6	49364	1
##	3995	W6	49371	1
##	3996	W6	49371	1
##	3998	W6	49398	1
##	3999	W6	49409	1
11T	5555	WO	10 100	_

##	4000	W6	49411	1
##	4001	W6	49432	1
##	4002	W6	49451	1
##	4003	W6	49480	1
##	4004	W6	49482	1
##	4005	W6	49491	1
##	4006	W6	49495	1
##	4007	W6	49496	1
##	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
##	4034	W6	49683	1
##	4035	W6	49698	1
##	4036	W6	49699	1
##	4037	W6	49705	1
##	4038	W6	49721	1
##	4039	W6	49723	1
##	4040	W6	49725	1
##	4041	W6	49729	1
##	4042	W6	49736	1
##	4043	W6	49760	1
##	4044	W6	49776	1
##	4045	W6	49779	1
##	4046	W6	49782	1
##	4047	W6	49787	1
##	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
##	4062	W6	49845	1
##	4063	W6	49852	1
##	4064	W6	49860	1
##	4065	W6	49862	1
##	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
##	4084	W6	50154	1
##	4085	W6	50176	1
##	4086	W6	50177	1
##	4087	W6	50222	1
##	4088	W6	50229	1
##	4089	W6	50249	1
##	4090	W6	50250	1
##	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		1
##	4133	W6		1
##	4134	W6		1
##	4135	W6		1
##	4136	W6		1
##	4137	W6	51674	1
##	4138	W6	51685	1
##	4139	W6	51688	1
##	4140	W6		1
##	4141	W6		1
##	4142	W6	52720	1
##	4143	W6	52729	1
##	4144	W6		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></fct>	<int></int>	<dbl></dbl>
##	1	<na></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
                                            70
## 9 Elymus elymoides
                                                              268
## 10 Poa fendleriana
                                            69
                                                              244
## # ... with 1,875 more rows
```

This chart shows the number of times a specific taxa was has been delivered. These deliveries could come from 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, ~
                                                          142
                                                                           307
                                         65
## 4 Cramer, Chris, New Mex~
                                         80
                                                          138
                                                                           258
## 5 Ford, Tim, IPPFBE, Inc~
                                         5
                                                                           280
                                                          127
## 6 Rodriguez, Jessica, , ~
                                        124
                                                          126
                                                                           299
## 7 Arnow, Jonathan, Alpin~
                                         88
                                                                           299
                                                          114
## 8 Rhode, David, Desert R~
                                        111
                                                          112
                                                                           209
## 9 Kolano, Bozena, Univer~
                                         26
                                                          101
                                                                           299
## 10 Tucker, Arthur O., Del~
                                         84
                                                                           188
## # ... with 2,329 more rows
```

This graphic shows which location is receiving the greatest diversity of taxon

to Do

- Investigate reasons for use- narrative description in GRIN Global
- How many are CWR and impacts

Discussion

• W6 doesn't have the resources to manage seeds indefinitely

- Constraints / challenges to adopting more wild plants
 Constraints with regard to getting materials into long term storage
- Challenge of not having seed testing techniques/rules worked out for species