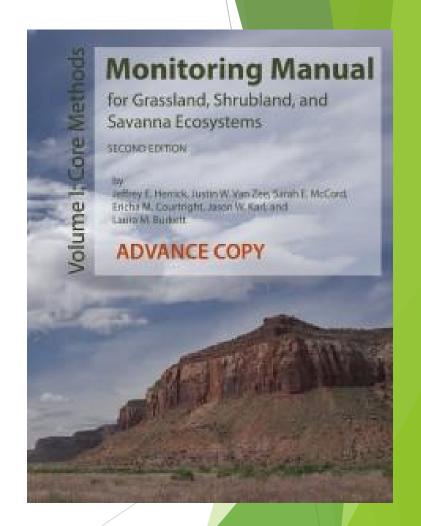


Using AIM and other publicly available data to locate adequate seed populations

Jessa Davis
Botanist/Ecologist
Bureau of Land Management – Boise District

ASSESSMENT, INVENTORY AND MONITORING (AIM)

- Herrick, Jeffrey E., et al. "Monitoring manual for grassland, shrubland and savanna ecosystems (2005).
- http://www.landscapetoolbox.org/
- Stratified, random sample design
- Provides collection sites across the landscape
 - Database for Inventory, Monitoring and Assessment (DIMA)
 - Terrestrial Assessment, Inventory and Monitoring Database (TerrADat)



DIGITAL HERBARIA







Consortium of Pacific Northwest Herbaria Providing access to specimen data and digital resources from herbaria throughout Pacific Northwest North America

ADDITIONAL DATASETS

- Habitat Assessment Framework (HAF)
- Trend, Legacy
- Emergency Stabilization and Rehabilitation (ESR)
- Landscape Monitoring Framework (LMF) (NRI)
- LANDFIRE (Biophysical Setting – BPS)

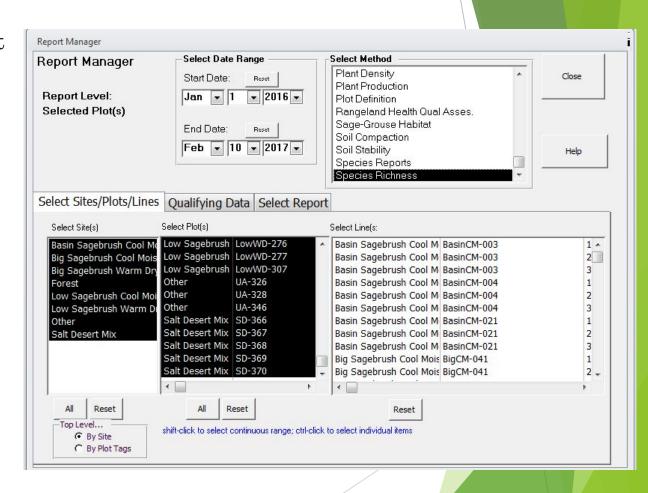


WHAT YOU'LL NEED

- ► Target species list ("work horse", pollinator species, sage grouse preferred forbs) (see SOS protocol)
- Current collection data (if available)
- Spatial information of vegetation treatments, and other "no go" areas
- DIMA reports
- Herbarium shapefiles

Database for inventory, Monitoring and assessment

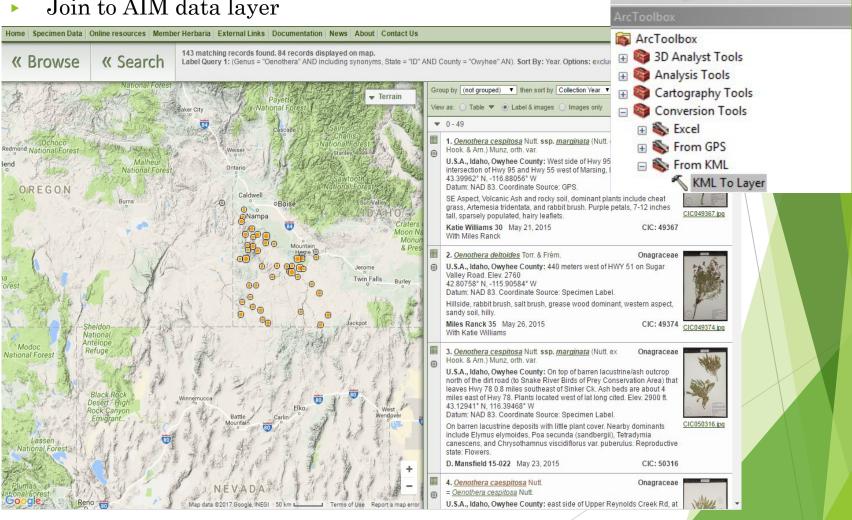
- Run a Species Report or Species Richness Report to correlate species with particular sites
- Run LPI Report for select sites with target species
- Use pivot tables!
- Join all these data to a plot shapefile (whether that's from TerrADat or DIMA)



File Home Insert Page Layout Formulas Data Review View Acrobat							
	Calibri 11 A A A	≡ <u></u>	₩r	ap Text	General	S	
Pa			Fa Me	erge & Center *	\$ - % , .00 .00 Cond	itional Format Cell	Inse
		Alignn		G.	Number 5	atting * as Table * Styles * Styles	*
			-	- 14	Number 13	Styles	127
	A1 • (Basin Sagebrush Co	DOI MOIST/BasinCM-	003	_			
4	A	В	С		D	E	F
1	Basin Sagebrush Cool Moist/BasinCM-003			Basin Sagebrush Cool Moist/BasinCM-004			
2	Plot Species	Density Species		Plot Species		Density Species	
3	ACMI2 (Achillea millefolium)			POSE (Poa se			
4	FEID (Festuca idahoensis)				mia linearis)		
	ARART (Artemisia arbuscula ssp. thermopola)				ım acuminatum)		
	ARTRV (Artemisia tridentata ssp. vaseyana)			COGR2 (Collinsia grandiflora)			
	ALAC4 (Allium acuminatum)				osteum umbellatum)		
	POBU (Poa bulbosa)			MIGR (Micro	steris gracilis)		
	POSE (Poa secunda)			LUPINPF (Lu	pinus)		
-	PUTR2 (Purshia tridentata)			PSSP6 (Pseu	doroegneria spicata)		
11	CHVI8 (Chrysothamnus viscidiflorus)			LOMATPF (L	omatium)		
12	JUSC2 (Juniperus scopulorum)			ELEL5 (Elymi	us elymoides)		
13	ACTH7 (Achnatherum thurberianum)			PUTR2 (Purs	hia tridentata)		
14	PSSP6 (Pseudoroegneria spicata)			ARTRV (Arte	misia tridentata ssp. vaseyan	a)	
15	DRVE2 (Draba verna)			PF58			
16	HOUM (Holosteum umbellatum)			ARHO2 (Aral	bis holboellii)		
17	PHLO2 (Phlox longifolia)			PF59			
18	PPSH			AF95			
19	AMAL2 (Amelanchier alnifolia)			FEID (Festuc	a idahoensis)		
20	COGR2 (Collinsia grandiflora)			PPSH			
21	LUPINPF (Lupinus)			JUSC2 (Junip	erus scopulorum)		
22	AG03			PG16			
23	AF84			ARAR8 (Arte	misia arbuscula)		
24	DEPI (Descurainia pinnata)			CREPIPF (Cre	epis)		
25	AF85			AF147			
26	CAMAM9 (Calochortus macrocarpus var. macrocarpus)			DELPHAF (De	elphinium (annual forb))		
27	CRAC2 (Crepis acuminata)			GALIUAF (Ga	alium (annual forb))		
28	FRAP (Frigeron aphanactis)			LASE (Lactuo	a serriola)		

Retrieving Herbarium Data

- Download data as kmz or kml files
- Join to AIM data layer



Help

WORK SMARTER, NOT HARDER

- Choose parameters that are important to you
 - >25% foliar cover for shrubs
 - >15% foliar cover for grasses
 - >5% foliar cover for forbs
- ~ 1 mile or less from herbarium vouchers
- Sites with identified target forbs



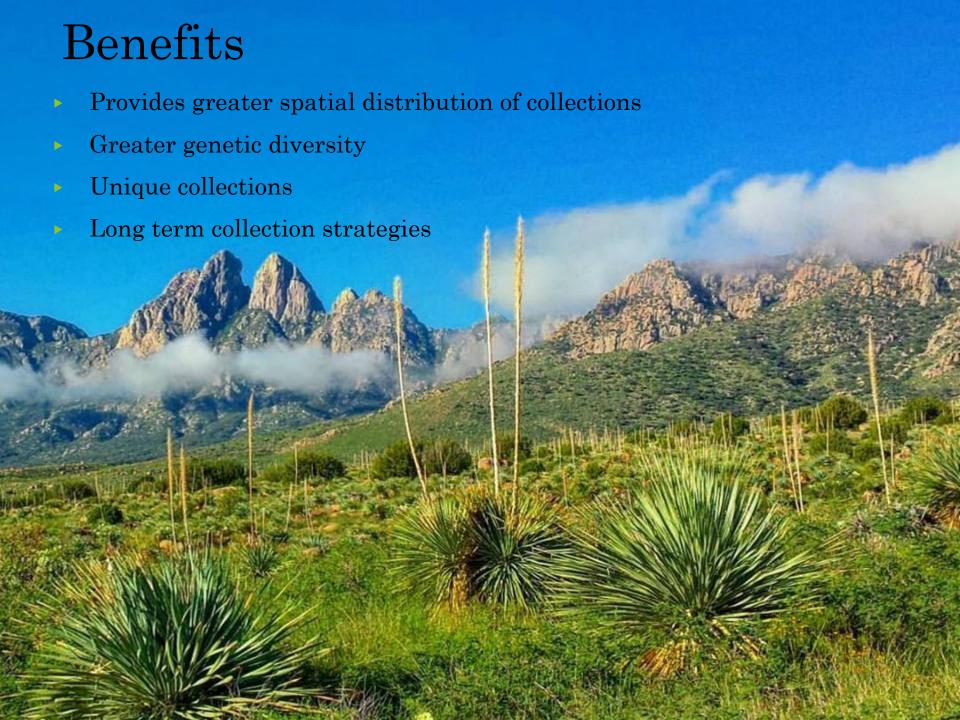
This is all good, but...

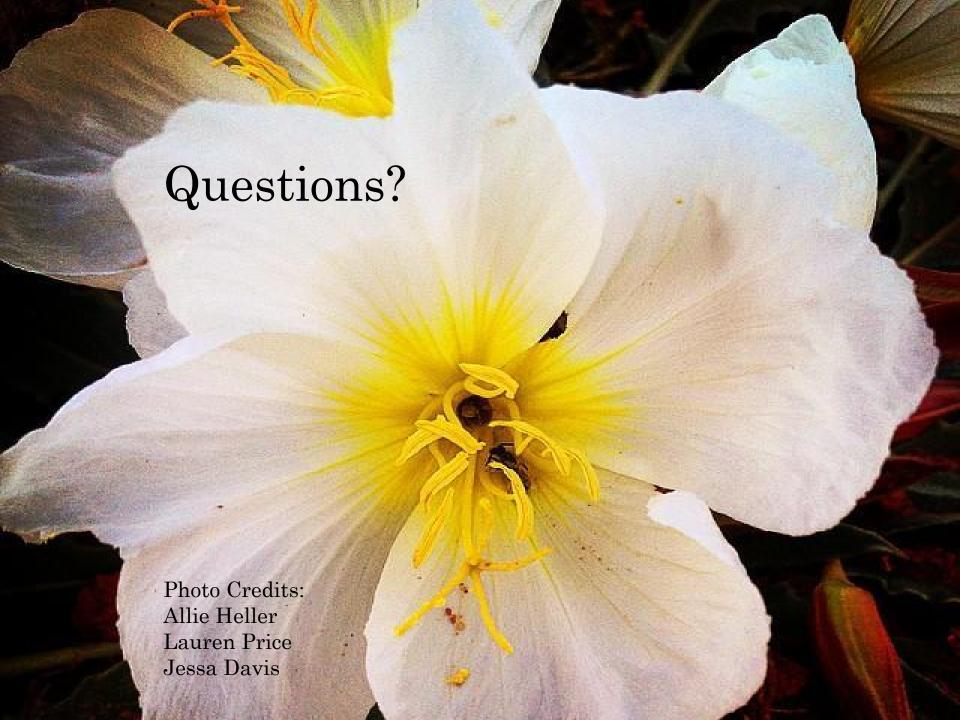
What about forbs?

COMMUNICATE!

- Familiarize crews with SOS protocol
 - Incidental collections based on hikes TO plots
 - Populations adjacent to plots
- Send SOS crews out with AIM crews
- MOTIVATE!









The preceding presentation was delivered at the

2017 National Native Seed Conference

Washington, D.C. February 13-16, 2017

This and additional presentations available at http://nativeseed.info





