

**EXAMPLE- ORIGINAL COLLECTION- SEEDS OF SUCCESS FIELD DATA FORM**

<b>Seed Collection Ref. Number:</b>	NM930-114	<b>Collector Code:</b>	NM930
<b>Date(s) Collected</b> (MM/DD/YY):	09/02/2020	<b>Collector Name(s):</b>	Chambliss, S., Primer, S., Howard, M.
	9/9/2020	<b>Collection Number:</b>	114
		<b>Alt. Collection Number:</b>	Howard 427
	<b>Recollection: Y N</b>	<b>If yes Recollection, Original Seed Reference #:</b>	

**COLLECTION DATA**

<b>Phenology = 100%</b>	Dormant 5% Vegetative 10% Bud 5% Flower 5% Pre Seed 10% Seed 50% Post Seed 15%		
<b>Family:</b>	Asteraceae	<b>No. of Plants Sampled (min. 50):</b>	300
<b>Genus:</b>	Verbesina	<b>No. of Plants Found (approx.):</b>	5000
<b>Species:</b>	enceliodes	<b>Area Sampled (acres):</b>	2
<b>Subspecies/Variety:</b>		<b>Seeds Collected From:</b>	<i>Plants Ground Both Unknown</i>
<b>Plant Habit:</b>	<i>Tree Shrub Forb Succulent Grass/Grasslike</i>	<b>Avg Plant Height (ft):</b>	3

<b>Field Notes to assist in identification of pressed specimen (e.g. flower color):</b>	Yellow flowers, strong odor when crushed
---	--

<b>Collection Method:</b> (circle)	<i>Hand stripped Cut Beat into tarp/container Plucked individual seed heads with hands</i> <i>Other (describe):</i>
---------------------------------------	--

<b>Common Name(s) of Plants:</b>	Golden crownbeard	<b>NRCS PLANTS Code:</b>	VEEN
----------------------------------	-------------------	--------------------------	------

**LOCATION DATA**

<b>Ecoregion (Omernik Level III):</b>	24	<b>State:</b>	NM	<b>County:</b>	Dona Ana
<b>Provisional STZ</b>	25 - 30 / semi-arid	<b>Empirical STZ</b>		<b>Desert SW STZ</b>	<b>Eastern States STZ</b>

<b>Subunit (BLM area, park name, etc.):</b>	Floral Delight Conservation Area	<b>Area within Subunit (trail name, etc.):</b>	Marigold Trail
---	----------------------------------	--	----------------

<b>Land Owner:</b>	BLM	<b>Non-BLM Permission Filed:</b>	Y N
--------------------	-----	----------------------------------	-----

<b>Location Details:</b>	From Las Cruces Field Office, take I-10 West of Las Cruces 7 mi, cross to the south side and travel 2 mi to County Road B005, continue for 2.1 miles, population on west side of road.
--------------------------	--

<b>Source Used:</b>	<i>GPS Survey 123 Other:</i>	<b>Accuracy:</b>	7 meters
---------------------	------------------------------	------------------	----------

<b>GPS Datum:</b>	<i>NAD83 NAD27 WGS84 Other:</i>
-------------------	---------------------------------

<b>Latitude (dg/min/sec)</b> (ex: 40° 34' 19.5" N):	32° 13' 47.9" N	<b>Elevation:</b>	4347
--	-----------------	-------------------	------

<b>Longitude</b> (dg/min/sec) (ex: 107° 36' 51.54" W):	107° 4' 34.0" W	<b>Unit</b> (ft or m):	ft
<b><u>HABITAT DATA</u></b>			
<b>Associated Species</b> (Scientific Name):	Prosopis glandulosa, Gutierrezia sarothrae, Salsola kali, Dimorphocarpa wislizeni, Atriplex canescens, Amaranthus sp., Bouteloua aristidoides		
<b>Ecological Site Description, Habitat Type and/or National Vegetation Classification :</b>	Chihuahuan Semi-Desert Grassland		
<b>Modifying Factors:</b>	<i>Mowed Burned Grazed Flooded Seeded Trampled Other:</i>		
<b>Land Form:</b>	Sand dunes	<b>Avg Slope</b> (degrees):	0-2
<b>Land Use:</b>	Grazing	<b>Aspect:</b>	<i>N NE E SE S SW W NW</i>
<b>Geology:</b>	Quaternary Aeolian sands		
<b>Soil Texture:</b>	<i>Clay Silt Sand Other: Loamy fine sand</i>	<b>Soil Color:</b>	7.5 YR 5/6
<b><u>HERBARIUM VOUCHERS</u></b>			
<b>Number of pressed specimens:</b>	3	<b>Date Voucher Taken:</b>	9/2/2020
<b>Herbaria Names</b> (Smithsonian, Regional, Local):	Smithsonian, University of New Mexico, BLM Las Cruces Office		
<b><u>SPECIALIST IDENTIFICATION</u></b>			
<b>Identified by</b> (name and organizational affiliation):	M. Howard, BLM-NMSO		
<b>Material Identified</b> (circle):	<i>In Field</i> <i>From Pressed Specimen on Day of Collection</i> <i>From Pressed Specimen on Another Date</i> <i>From Photograph</i>	<b>Date Identified</b> (MM/DD/YY):	<b><u>9/2/2020</u></b>
<b><u>CUT TEST AND SEED YIELD TOOL</u></b> <i>Fields in this section with an * are required. The rest are "optional" though may be required for some teams. All teams may use this section to track estimated PLS. This section should be filled out each collection day.</i>			
<b>*Total # seeds cut:</b>	20	<b>*# viable of seeds:</b>	16
<b>*Estimated viability</b> (decimal percent):			.8
<b>Seed collection method</b> (circle):	All seed from every fifth plant (20%) <b>OR</b> <u>20</u> % of each plant (can't exceed 20%)		
<b>Avg # fruits/plant:</b>	8	<b>Avg # seeds/fruit:</b>	30
<b>Target # seeds you want to collect:</b>	10,000	<b># plants needed for target:</b>	260
<b>Total # plants collected from today:</b>	300	<b>Estimated PLS from today:</b>	11,520 PLS
<b>Weight (g) of sub-sample:</b> (including seed/chaff)		<b>Number of all seeds in sub-sample:</b>	
		<b>Total weight of collection (g):</b>	
		<b>Estimated PLS from today</b> (weight method):	
<b>Use the following equations to calculate answers for some of the fields above.</b>			
<b>Structures Method:</b> <i>Example data: 10 seeds per fruit, 10 fruits per plant, .8 viability, 20% harvest. 10,000PLS target amount. At the end of the collection day, the team sampled 700 plants.</i>			
<b>Number of plants needed</b> = Target # seeds / ([Avg # fruits per plant * Avg # seeds per fruit * Estimated viability] * Decimal percent of seed taken from each plant) $10,000 / ([10 * 10 * .8] * .2) = 625$ plants needed			
<b>Estimated PLS</b> = ([Avg # fruits per plant * Avg # seeds per fruit * Estimated viability] * Decimal percent of seed taken from each plant) * total plants collected from $([10 * 10 * .8] * .2) * 700 = 11,200$ PLS			
<b>Weight Method:</b> <i>Example data: .55 viability, 75 seeds in subsample, 2g sample weight, 1000g total collection weight.</i>			
<b>Estimated PLS</b> = ([# total seeds in sample * decimal % cut test viability] / weight of sample) * total collection weight $([75 * .55] / 2) * 1000 = 20,625$ PLS			

**EXAMPLE- RECOLLECTION- SEEDS OF SUCCESS FIELD DATA FORM**

<b>Seed Collection Ref. Number:</b>	NM930-200	<b>Collector Code:</b>	NM930
<b>Date(s) Collected</b> (MM/DD/YY):	09/07/2024	<b>Collector Name(s):</b>	Hill, S., Snyder, K.
	9/15/2024	<b>Collection Number:</b>	200
		<b>Alt. Collection Number:</b>	Hill 87
	<b>Recollection: Y N</b>	<b>If yes Recollection, Original Seed Reference #:</b>	NM930-114
<b>COLLECTION DATA</b>			
<b>Phenology</b> = 100%	Dormant 5% Vegetative 10% Bud 0% Flower 5% Pre Seed 10% Seed 50% Post Seed 20%		
<b>Family:</b>	Asteraceae	<b>No. of Plants Sampled</b> (min. 50):	400
<b>Genus:</b>	Verbesina	<b>No. of Plants Found</b> (approx.):	5000
<b>Species:</b>	enceliodes	<b>Area Sampled</b> (acres):	2
<b>Subspecies/Variety:</b>		<b>Seeds Collected From:</b>	<i>Plants Ground Both Unknown</i>
<b>Plant Habit:</b>	<i>Tree Shrub Forb Succulent Grass/Grasslike</i>	<b>Avg Plant Height</b> (ft):	3
<b>Field Notes to assist in identification of pressed specimen</b> (e.g. flower color):	Yellow flowers, strong odor when crushed		
<b>Collection Method:</b> (circle)	<i>Hand stripped Cut Beat into tarp/container Plucked individual seed heads with hands</i> <i>Other (describe):</i>		
<b>Common Name(s) of Plants:</b>	Golden crownbeard	<b>NRCS PLANTS Code:</b>	VEEN
<b>LOCATION DATA</b>			
<b>Ecoregion</b> (Omernik Level III):	24	<b>State:</b>	NM
<b>County:</b>	Dona Ana		
<b>Provisional STZ</b>	25 - 30 / semi-arid	<b>Empirical STZ</b>	
		<b>Desert SW STZ</b>	
		<b>Eastern States STZ</b>	
<b>Subunit</b> (BLM area, park name, etc.):	Floral Delight Conservation Area	<b>Area within Subunit</b> (trail name, etc.):	Marigold Trail
<b>Land Owner:</b>	BLM	<b>Non-BLM Permission Filed:</b>	Y N
<b>Location Details:</b>	From Las Cruces Field Office, take I-10 West of Las Cruces 7 mi, cross to the south side and travel 2 mi to County Road B005, continue for 2.1 miles, population on west side of road.		
<b>Source Used:</b>	<i>GPS Survey123 Other:</i>	<b>Accuracy:</b>	5 meters
<b>GPS Datum:</b>	<i>NAD83 NAD27 WGS84 Other:</i>		
<b>Latitude</b> (dg/min/sec) (ex: 40° 34' 19.5" N):	32° 13' 47.9" N	<b>Elevation:</b>	4347

<b>Longitude</b> (dg/min/sec) (ex: 107° 36' 51.54" W):	107° 4' 34.0" W	<b>Unit</b> (ft or m):	ft
<b><u>HABITAT DATA</u></b>			
<b>Associated Species</b> (Scientific Name):	Prosopis glandulosa, Gutierrezia sarothrae, Salsola kali, Dimorphocarpa wislizeni, Atriplex canescens, Amaranthus sp., Bouteloua aristoides		
<b>Ecological Site Description, Habitat Type and/or National Vegetation Classification :</b>	Chihuahuan Semi-Desert Grassland		
<b>Modifying Factors:</b>	<i>Mowed Burned Grazed Flooded Seeded Trampled Other:</i>		
<b>Land Form:</b>	Sand dunes	<b>Avg Slope</b> (degrees):	0-2
<b>Land Use:</b>	Grazing	<b>Aspect:</b>	<i>N NE E SE S SW W NW</i>
<b>Geology:</b>	Quaternary Aeolian sands		
<b>Soil Texture:</b>	<i>Clay Silt Sand Other: Loamy fine sand</i>	<b>Soil Color:</b>	7.5 YR 5/6
<b><u>HERBARIUM VOUCHERS</u></b>			
<b>Num. of pressed specimens:</b>	3	<b>Date Voucher Taken:</b>	8/30/2024
<b>Herbaria Names</b> (Smithsonian, Regional, Local):	Smithsonian, University of New Mexico, BLM Las Cruces Office		
<b><u>SPECIALIST IDENTIFICATION</u></b>			
<b>Identified by</b> (name and organizational affiliation):	S. Hill, BLM-NMSO		
<b>Material Identified</b> (circle):	<i>In Field</i> <i>From Pressed Specimen on Day of Collection</i>	<b>Date Identified</b> (MM/DD/YY):	8/30/2024
	<i>From Pressed Specimen on Another Date</i> <i>From Photograph</i>		
<b><u>CUT TEST AND SEED YIELD TOOL</u></b> <i>Fields in this section with an * are required. The rest are "optional" though may be required for some teams. All teams may use this section to track estimated PLS. This section should be filled out each collection day.</i>			
<b>*Total # seeds cut:</b>	20	<b>*# viable of seeds:</b>	13
		<b>*Estimated viability</b> (decimal percent):	.65
<b>Seed collection method</b> (circle):	All seed from every fifth plant (20%) <b>OR</b> <u>20</u> % of each plant (can't exceed 20%)		
<b>Avg # fruits/plant:</b>	10	<b>Avg # seeds/fruit:</b>	20
		<b>Target # seeds you want to collect:</b>	10,000
		<b># plants needed for target:</b>	384
<b>Total # plants collected from today:</b>	400		<b>Estimated PLS from today:</b> 10,400
<b>Weight (g) of sub-sample:</b> (including seed/chaff)		<b>Number of all seeds in sub-sample:</b>	
		<b>Total weight of collection (g):</b>	
		<b>Estimated PLS from today</b> (weight method):	
<b>Use the following equations to calculate answers for some of the fields above.</b>			
<b><u>Structures Method:</u></b> <i>Example data: 10 seeds per fruit, 10 fruits per plant, .8 viability, 20% harvest. 10,000PLS target amount. At the end of the collection day, the team sampled 700 plants.</i>			
<b>Number of plants needed</b> = Target # seeds / ([Avg # fruits per plant * Avg # seeds per fruit * Estimated viability] * Decimal percent of seed taken from each plant)			
$10,000 / ([10 * 10 * .8] * .2) = 625$ plants needed			
<b>Estimated PLS</b> = ([Avg # fruits per plant * Avg # seeds per fruit * Estimated viability] * Decimal percent of seed taken from each plant) * total plants collected from			
$([10 * 10 * .8] * .2) * 700 = 11,200$ PLS			
<b><u>Weight Method:</u></b> <i>Example data: .55 viability, 75 seeds in subsample, 2g sample weight, 1000g total collection weight.</i>			
<b>Estimated PLS</b> = ([# total seeds in sample * decimal % cut test viability] / weight of sample) * total collection weight			
$([75 * .55] / 2) * 1000 = 20,625$ PLS			