BLM SEEDS OF SUCCESS FIELD DATA FORM (Revised 16 April 2008)

Use BLOCK CAPITALS
Complete all fields.
Circle relevant descriptions shown in *italics*.

MSB Serial Number:
NRCS PLANTS Code: SCSC 15
Cleaning Facility: BEND

Date(s) Collected (DD/MM/YY): 03/07/08 **Seed Collection Reference Number:** UT931-120

Collector(s): DANIEL C. CLOWARD

Country: USA **Ecoregion** (T,O, B): COLORADO PLATEAU, 20, (O) **State:** UTAH County: EMERY

Location Details: TURN OFF TO GOBLIN VALLEY FROM STATE ROAD 24. WEST SIDE OF ROAD AND AROUND PARKING AREA AT TURN OFF.

Lat. (dg/min/sec) (ex: 40° 34' 19.5" N): 38 37'50.61"N GPS Used?: *Yes* *No* If no, please see other side.

Long. (dg/min/sec) (ex: 107° 36' 51.54" W): 110 34'04.72"W GPS Datum: *NAD83* *NAD27* *WGS84* *Other:Google earth*

Elevation (feet): 4991 Landowner Details (Permission?): BLM

HABITAT DATA

Habitat, Associated Species & Ecological Site Descriptor: BLACKBRUSH, VENCLEAVEA-EPHEDRA, MIXED DESERT SHRUB COMMUNITIES

Modifying Factors: *Mowed* *Burned* *Grazed* *Flooded* *Seeded* *Trampled* *Other:*

Land Form: SNAD DUNE TO ROLLING HILLS Slope°: 5

Land Use: RECREATION Aspect: *N* *NE* *E* *SE* *S* *SW* *W* *NW*

Geology: SANDSTONE

Soil Texture: *Clay* *Silt* *Sand* *Other:* Soil Color: PINK SAND

COLLECTION DATA - If plant has been identified by a specialist, please see other side.

Family: ASTERACEAE **No. of Plants Sampled** (min. 50): 200

Genus: *SCABRETHIA* **No. of Plants Found (approx.):** 500

Species: *SCABRA* **Area Sampled (acres):** 2

Subspecies/Variety:

Seeds Collected From: *Plants* *Ground* *Both*

Plant Habit: *Tree* *Shrub* *Forb* *Succulent* *Grass/Grasslike* Plant Height (feet): 2-3

Native plant materials development and research this accession will be used for:

Notes to assist identification of pressed specimen (e.g. flower color, odor, presence of closely related species): LEAVES VERY COURSE TO TOUCH. BIG YELLOW FLOWERS.

Common Name(s) of Plants: BADLANDS MULE-EARS

Photograph Taken: *Digital* *35mm* Reference (PLANTS Code_Coll. Number_Pic. No.): SCSC_UT931-120_A Where Image will be Filed: RED BUTTE GARDEN

PRE-COLLECTION CHECKLIST

(Check box to right if condition indicated by **boldface** *is met or is the most frequently occurring condition.)*

Assess Population & Seed Dispersal Stage

Approximate area of population: 100 x 100 (feet, yards, miles……)

Approximate total number of individual plants present and accessible: *0-50* *50-500* ***500-5000*** *> 5000*

Evidence of disturbance or damage: *Resown* *Burnt* *Sprayed* ***No damage***

Readiness of population for collecting: give percentages or circle the most frequently occurring:
Vegetative *In flower* *Immature seeds* ***Around natural dispersal*** *Post dispersal*

Estimate the number of individual plants at natural dispersal stage: *<50* ***>50***

Is the population:
A single population *A population with distinct sub-populations* (Can you sample separately or from the most suitable?)

Assess Seed Quality & Availability

On a typical individual, where on the plant/branch/fruit is the seed at natural dispersal stage: **Recognized**

Using a cut test on the seeds at this stage, give percentages or circle the most frequently occurring:
Healthy *20* *Insect-damaged 30* *Empty* *Moldy* *Malformed/other damage50*

Estimate the number of healthy seeds per fruit:

Estimate the number of fruits per individual plant:

Should Seed Be Collected On This Trip?

Using the above information, if you only collect 20% of the healthy seeds available today, will this result in a collection of **>10,000** healthy seeds? yes

OTHER DATA

If GPS was not used, please state method of obtaining lat. and long.: *Altimeter* *Map*

Map Publisher:

Series: Scale:

Map Coordinates: Map Date (DD/MM/YY):

Herbarium voucher specimens:

Number of Pressed Specimens: *2* *3* *4* *or more* **Date Voucher Was Taken (DD/MM/YY):** 28/05/08

Circle one:

a. *All Herbarium duplicates will be sent to Kew to arrange labeling, verification and distribution (default)*

b. *One duplicate will be sent to _____ herbarium for verification, other duplicates will be sent by the collector to Kew to arrange labeling and distribution.*

c. *All Herbarium duplicates will be sent to _____ herbarium that has agreed to arrange labeling, verification and distribution.*

d. ***A herbarium voucher has been sent to the National Herbarium at the Smithsonian, and the remaining will be distributed by the __UT931___ collecting team to regional herbaria: _BYU_____, __UofU_____.***

By default, besides any herbaria mentioned above, one specimen will be sent to Kew and one to the Smithsonian. If you would like to request that additional specimens be sent to regional and/or local herbaria, please fill in the following information:

Regional Herbarium:
Stanley L Welsh
Herbarium
Brigham Young Univ.
378-MLBM
Provo, UT 84602

Local Herbarium:
Garrett Herbarium (UT)
Utah Museum of Natural History
University of Utah
1390 E. Presidents Circle, Rm. 102
Salt Lake City, Utah 84112-0050
U.S.A.

If collection has been identified by a specialist, please complete sections below:

Material Identified: *In Field* *From Pressed Specimen on Day of Collection* *From Pressed Specimen on Another Date* *From Photograph*

Date identified (DD/MM/YY):

Identified by: Organization:

Seed Test/Packaging Record

SOSUT-93108-12

SCSC15-SOSUT-931-120-08
Scabrethia scabra
badlands mule-ears
BLMS .71 P

PRE-PACKAGING CHECKLIST

Tag Count Complete	# of Tags: 0	Date/Initials: 1/27/09
OSU Sample Taken	# of pounds:	
Sample Sent	(Y) / N	TZ

Test Results: Both in-house and/or OSU

100 Seed X-ray: 91%
Moisture Content: 4.6%
Seed Count: 30,400

REMARKS: ENTERED

GERM — TZ OSU Strat Time: NC___ 4C ___ 8C ___ 13C___

PURITY 97 or NOXIOUS WEED only ____

MOISTURE CONTENT (use one of three methods below)

Dole Meter			**Moisture Analyzer**			**HygroPalm**			
Dial Reading	M.C.	Grams	Temp °C	Time Used	% M.C.	Time	Air Temp	ERH	M.C.
							71°	21%	4.6

X-Ray Results

91 % Filled

Results from 100 Seed X-Ray

PURITY (Use OSU sample chart to determine wt. of sample)

Wt. of Sample: _____ gms
Wt of Impurities:
- Crops _____ gms
- Inerts .166 gms bug holes/flower parts
- Weeds _____ gms
- Noxious _____ gms

Wt. of All Impurities: .166 gms
Wt. of Clean Seed 5.952 gms
TOTAL (Impurities + Clean Seeds) 6.118 gms
Percent Purity = (Wt. of clean seeds) / (Wt. of Total) X 100 = 97 %

SEEDS PER POUND

Weight to three decimal places, when possible
Wt. of 5 reps of 100 seeds each (in grams).

1.455 1.521 _____ _____ _____

TOTAL of ALL Reps: _____
Average: _____

** NOTE: If difference between max and min is less than 10% of the average samples, data is acceptable

Difference between max & Min wt. _____ 10% of average _____

NOTE: Seeds/Pound = 453600 / 1000 seed wt. (453.6 grams = 1 pound)
To calculate M seed wt, take Total of 5 samples times 2.
2 x Total of 5 reps = 14.9 = 1000 seed wt.
Seeds per Pound = 30,400

FINAL PACKAGING for Seed Storage/Transfer

	Bag Wt.		Bag Wt.
Bag # 1	.228	Bag #	
Bag # 2			
Bag # 3			
Bag # 4			
Bag # 5		Last Bag	
		TOTAL Wt.	.228

ENTERED

✓ ID card needed
— 10M to PPMC ____ wt.
↳ not yet. Entire lot = ~6,100 PL seed

SEED TRANSFER Log Number _____

Date	Wt. Shipped	Ship via	Purpose Remarks

DATE	Start	Stop	Process	Initials
1-27-09	1355		226-test	AC
		1430	2270-pkg	AC

OK

✓	ID card file sample
	Regional Office ID file

POSTED TO: Lot Completion Logbook ✓ Computer NMIS_____