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: LECI4
Cleaning Facility: BEND

**Date(s) Collected** (DD/MM/YY): 07/11/08 **Seed Collection Reference Number:** UT931-113

**Collector(s):** AARON SEARLE, ALLY SEARLE

**Country:** USA **Ecoregion** (T,O, B): 13 **State:** UTAH County: TOOELE

**Location Details:** POLE CANYON IN THE UTAH WEST DESERT APPROX. 10 KM SOUTH WEST OF VERNON RESERVOIR.

**Lat. (dg/min/sec)** (ex: 40° 34' 19.5" N): 39°52'53.74"N GPS Used?: *Yes* *No* If no, please see other side.

**Long. (dg/min/sec)** (ex: 107° 36' 51.54" W): 112°28'01.97"W GPS Datum: ***NAD83*** *NAD27* *WGS84* *Other:*

**Elevation (feet):** 6,587 FT Landowner Details (Permission?): BLM

## HABITAT DATA

**Habitat, Associated Species & Ecological Site Descriptor:** PINION JUNIPER COMMUNITY AND DESERT SHRUB WITH ASSOCIATED GRASSES.

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

Land Form: FOOTHILLS Slope°: 15

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

Geology: SANDSTONE AND SHALE

Soil Texture: *Clay* *Silt* *Sand* *Other:* Soil Color: WHITE-GREY

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

**Family:** POEAE **No. of Plants Sampled** (min. 50 ): 100

**Genus:** LEYMUS **No. of Plants Found (approx.):** 5000

**Species:** CINEREUS **Area Sampled (acres):** 20

Subspecies/Variety:

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

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

Common Name(s) of Plants: BASIN WILD RYE

Photograph Taken: *Digital* *35mm* Reference (PLANTS Code_Coll. Number_Pic. No.): LECI4_UT931-113_A,B,C 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: 5miles x 5miles (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*** *Insect-damaged* *Empty* *Moldy* *Malformed/other damage* | |
| 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? | |

# 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):**

**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-93108-09**

LECI4-SOSUT-931-113-08
Leymus cinereus
basin wildrye
BLMS .55 P

## PRE-PACKAGING CHECKLIST

| | | |
|---|---|---|
| Tag Count Complete | # of Tags ~2 | Date/Initials 1/28/09 AC |
| OSU Sample Taken | # of pounds .54g | |
| Sample Sent | (Y) / N | TZ |

## Test Results: Both in-house and/or OSU

100 Seed X-ray 88
Moisture Content 4.7%
Seed Count 169,200

REMARKS ugly for this species. Lots of lights + some seed appears unhealthy..

GERM — TZ OSU Strat Time: NC — 4C — 8C — 13C —

PURITY 94% or NOXIOUS WEED only —

ENTERED

## 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. |
| | | | | | | — | 70° | 21.4 | 4.7 |
| | | | | | | | | | |
| | | | | | | | | | |

## X-Ray Results

88 % 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 most gms
- Weeds _____ gms
- Noxious _____ gms

maybe 1 other seed
most = Lights

Wt. of All Impurities: .68 gms
Wt. of Clean Seed 10.62 gms
**TOTAL (Impurities + Clean Seeds)** 11.3 gms

Percent Purity = (Wt. of clean seeds) / (Wt. of Total) X 100 = 94 %

## SEEDS PER POUND

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

.261 .271 _____
_____ _____

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 = 2.68 = 1000 seed wt.
Seeds per Pound = 169,200

## FINAL PACKAGING for Seed Storage/Transfer

| | Bag Wt. | | Bag Wt. |
|---|---|---|---|
| Bag # 1 | .189 | Bag # | |
| Bag # 2 | | | |
| Bag # 3 | | | |
| Bag # 4 | | | |
| Bag # 5 | | Last Bag | |
| | | **TOTAL Wt.** | .189# |

ENTERED

✓ 10M to PPMC .072# wt

SEED TRANSFER Log Number _____

| Date | Wt. Shipped | Ship via | Purpose Remarks |
|---|---|---|---|
| | | | |

| DATE | Start | Stop | Process | Initials |
|---|---|---|---|---|
| 1-28-09 | 1445 | | 226-test | AC |
| | | 1530 | 2270-pkg | AC |

| | |
|---|---|
| | howe ID card file sample |
| | Regional Office ID file |

POSTED TO: Lot Completion Logbook ✓ Computer NMIS _____