



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

MSB Serial Number:   
 NRCS PLANTS Code:   
 Cleaning Facility:

Date(s) Collected (DD/MM/YY):  Seed Collection Reference Number:

Collector(s):

Country:  Ecoregion (T,O, B):  State:  County:

Location Details:

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

Long. (dg/min/sec) (ex: 107° 36' 51.54" W):  GPS Datum:

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

**HABITAT DATA**

Habitat, Associated Species & Ecological Site Descriptor:

Modifying Factors:

Land Form:  Slope°:

Land Use:  Aspect:

Geology:

Soil Texture:  Soil Color:

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

Family:

No. of Plants Sampled (min. 50):

Genus:

No. of Plants Found (approx.):

Species:

Area Sampled (acres):

Subspecies/Variety:

Seeds Collected From:

Plant Habit:

Plant Height (feet):

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:

Photograph Taken:

Reference (PLANTS Code, Coll. Number, Pic. No.):

Where Image will be Filed:

**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: 150 x 150 (feet, yards, miles.....)Approximate total number of individual plants present and accessible: 0-50 50-500 500-5000 > 5000Evidence 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): 10/07/2008

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

SPMU2-SOSUT-931-12  
Sphearalcea munro  
Munro's globema  
BLMS

PRE-PACKAGING CHECKLIST		
Tag Count Complete	# of Tags 0	Date/Initials 2/5/09 AC
OSU Sample Taken	# of pounds 22g	
Sample Sent	Y/N Y	TZ

Test Results: Both in-house and/or OSU		REMARKS
100 Seed X-ray	92%	[REDACTED]
Moisture Content	54%	
Seed Count	427,900	
GERM <del>___</del> TZOSU Strat Time: NC ___ 4C ___ 8C ___ 13C ___		
PURITY <u>99%</u> 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.
						—	70°	25	54

X-Ray Results
92 % Filled
Results from 100 Seed X-

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

Wt. of Sample: _____ gms	Wt. of All Impurities: _____ gms
Wt of Impurities:	Wt. of Clean Seed _____ gms
• Crops _____ gms	<b>TOTAL (Impurities + Clean Seeds) _____ gms</b>
• Inerts _____ gms	Percent Purity = $\frac{\text{Wt. of clean seeds}}{\text{Wt. of Total}} \times 100 = \underline{99} \%$
• Weeds _____ gms	
• Noxious _____ gms	

## SEEDS PER POUND

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

.106 .106 \_\_\_\_\_  
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 =  $\frac{453600}{453.6 \text{ grams} = 1 \text{ pound}}$   
1000 seed wt.

To calculate M seed wt, take Total of 5 samples times 2.  
 $2 \times \text{Total of 5 reps} = \frac{1.06}{2} = 1000 \text{ seed wt.}$   
Seeds per Pound = 427,900

## FINAL PACKAGING for Seed Storage/Transfer

Bag #	Bag Wt.	Bag #	Bag Wt.
Bag # 1	.065		
Bag # 2			
Bag # 3			
Bag # 4			
Bag # 5		Last Bag	
<b>TOTAL Wt.</b>			.065

✓ ID card needed  
✓ 10 Mto PPMC .026 # wt

SEED TRANSFER Log Number			
Date	Wt. Shipped	Ship via	Purpose Rem

DATE	Start	Stop	Process	Initials
2-5-09	1045		226-test	AC
		1120	2270-pkg	AC

of  
ID card file sa  
Regional Office

POSTED TO: Lot Completion Logbook  Computer NMIS \_\_\_\_\_