



MSB Serial Number: _____
NCRS PLANTS Code: MIGU
Storage Facility: Bend
Date Collected: 28 MAY 2009
Seed Collection Reference Number: AZ930-288
Collector(s): King, M., Blackwell, S.
SCROPHULARIACEAE
Mimulus guttatus

Country: United States **Ecoregion:** 23, Arizona/New Mexico Mountains
State: Arizona **County:** Maricopa
City/Town/Park: Tonto National Forest **Geographic Area:** Seven Springs Recreation Area
Location Details: Seven Springs Recreation Area. Along stream located about 8.0 miles from beginning of Seven Springs Road.

Lat. (dg/min/sec): 33° 57' 43" N **Long. (dg/min/sec):** 111° 51' 0.7" W

GPS: NAD83

Landowner Details (Permission): USFS

Altitude: 3440 FT

Associated Species: *Fraxinus velutina*, *Rhus trilobata*, *Salix spp.*, *Platanus wrightii*, *Juniperus coahuilensis*, *Aquilegia sp.*, *Rhamnus ilicifolia*, *Vitis arizonica*

Habitat: Interior Chaparral

Modifying Factors: None

Land Form: Stream

Aspect: All

Land Use: Recreation

Slope: 0°

Geology: Basalt

Soil: 5Y 4/2 olive grey, dry. Sand.

No. of Plants Sampled and Misc.: 50 plants sampled.

No. of Plants Found: ca 500

Area Sampled: 2 A

Seeds Collected From: seed - many individuals, plant

Description: Plant height: 2-4 feet.

Common Name(s): seep monkeyflower

Photograph (to be send electronically to SOS National Office) file name: MIGU-AZ930-288-A, MIGU-AZ930-288-B, MIGU-AZ930-288-C

Identification

Johnson, J. -DES, In Field. May 18, 2009.

Herbarium Vouchers

Does the pressed specimen have the same reference as the seed collection? Yes No

No. of Herbarium Vouchers: 1- sent to Smithsonian

- 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 Smithsonian herbarium that has agreed to arrange labeling, verification and distribution.**

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:

Local Herbarium:

0.045#
lenv

SOS-AZ930-288

MIGU-SOS-AZ930-288-7SPRINGSREC-09

Mimulus guttatus
seep monkeyflower

BLMS .04 P

Seed Test/Packaging Record

PRE-PACKAGING CHECKLIST

Tag Count Complete	# of Tags	Date/Initials
	0	3-8-10
OSU Sample Taken	# of pounds	
	.006g	AC
Sample Sent	YN	

Test Results: Both in-house and/or OSU		REMARKS
100 Seed X-ray	~ 90 + cut seed	
Moisture Content	6.0	
Seed Count	22,680,000	
GERM <u> </u> TZ <u>OSU</u> Strat Time: NC <u> </u> 4C <u> </u> 8C <u> </u> 13C <u> </u>		
PURITY <u>90%</u> or NOXIOUS WEED only <u> </u>		

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.
								28.0	6.0

X-Ray Results

% Filled
Results from 100 Seed X-Ray

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

Wt. of Sample: _____ gms	Wt. of All Impurities: <u>.0015</u> gms
Wt of Impurities:	Wt. of Clean Seed <u>.015</u> gms
• Crops _____ gms	TOTAL (Impurities + Clean Seeds) <u>.0165</u> gms
• Inerts <u>.0015</u> gms	Percent Purity = $\frac{\text{Wt. of clean seeds}}{\text{Wt. of Total}} \times 100 = \sim 90\%$
• Weeds _____ gms	
• Noxious _____ gms	

SEEDS PER POUND

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

.002 .002 _____

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

To calculate M seed wt, take Total of 5 samples times 2.

2 x Total of 5 reps = .02 = 1000 seed wt.

Seeds per Pound = 22,680,000

FINAL PACKAGING for Seed Storage/Transfer

Bag #	Bag Wt.	Bag #	Bag Wt.
Bag # 1			
Bag # 2			
Bag # 3			
Bag # 4			
Bag # 5		Last Bag	
TOTAL Wt.			<u>.014</u>

beg bal .014
WRPIS .001 # ~ 10,000+
New bal .013

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

DATE	Start	Stop	Process	Initials
3-8-10	1205		226-test	AC
		1240	2270-pkg	AC

	ID card file sample
	Regional Office ID file

POSTED TO: Lot Completion Logbook Computer NMIS _____