

SEEDS



OF SUCCESS

MSB Serial Number: _____

NCRS PLANTS Code: HIBE

Storage Facility: Bend

Date Collected: 05 SEP 2007

Seed Collection Reference Number: AZ930-224

Collector(s): Johnson, J., Gray, M.

POACEAE

Hilaria belangeri

Rec 10/16/07

1 grocery
0-459 #-610
-0151
=459

Country: United States

Ecoregion: 23, Sonoran Desert

State: Arizona

County: Yavapai

City/Town/Park: Agua Fria National Monument

Geographic Area: Perry Mesa

Location Details: Agua Fria National Monument. Bloody Basin Road. 7 miles east of junction with Interstate 17

Lat. (dg/min/sec): 34° 14' 31.9" N Long. (dg/min/sec): 112° 02' 53.2" W

GPS: NAD83

Landowner Details (Permission): BLM (yes)

Altitude: 3667 FT

Associated Species: *Juniperus sp.*, *Prosopis velutina*, *Acacia greggii*, *Opuntia**engelmannii*, *Gutierrezia sp.*, *Eriogonum wrightii*, *Pleuraphis mutica*, *Echinocereus engelmannii*

Habitat: Semi-desert Grassland,

Modifying Factors: None

Land Form: Mesa

Aspect: All

Land Use: Multiple Use

Slope: 0-5°

Geology: Igneous basalt

Soil: Brown, Silt and Clay

No. of Plants Sampled and Misc.: 700 plants sampled

No. of Plants Found: > 2000

Area Sampled: 1 A

Seeds Collected From: seed - many individuals, plant

Description: Height: 12"

Common Name(s): curly-mesquite

Photograph (to be send electronically to SOS National Office) file name: HIBE-AZ930-224-A, HIBE-AZ930-224-B, HIBE-AZ930-224-C

Identification

Johnson, J. - DES, In field, September, 5, 2007

Herbarium Vouchers

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

No. of Herbarium Vouchers: 1-sent to Smithsonian

- All herbarium duplicates will be sent to Kew to arrange labeling, verification and distribution (default).
- One duplicate will be sent to _____ herbarium for verification, other duplicates will be sent by the collector to Kew to arrange labeling and distribution.
- 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:

Seed Test/Packaging Record

PRIORITY

SOSAZ-93007-22

HIBE-SOSAZ-930-0224-07
 Hilaria belangeri
 curly-mesquite
 BLMS .46 P

PRE-PACKAGING CHECKLIST

| | | |
|--------------------|-------------|---------------|
| Tag Count Complete | # of Tags | Date/Initials |
| | 1 | 12/12/07 |
| OSU Sample Taken | # of pounds | AC |
| | .20g | |
| Sample Sent | Y/N | |

| Test Results: Both in-house and/or OSU | | REMARKS |
|--|--------------------|--|
| 100 Seed X-ray | 68% ^{1/2} | no seed still in 'flower' - cannot tell which are empty w/out X-ray - I would say good job cleaning hopefully smut is not a problem. |
| Moisture Content | | |
| Seed Count | 477,400 | |
| GERM | TZ 054 | Strat Time: NC 4C 8C 13C |
| PURITY | 98% ^{1/2} | or NOXIOUS WEED only |

MOISTURE CONTENT (use one of two methods below)

| **Dole Meter** | | | **Moisture Analyzer** | | |
|----------------|------|-------|-----------------------|-----------|--------|
| Dial Reading | M.C. | Grams | Temp °C | Time Used | % M.C. |
| | | | | | |

X-Ray Results

| | |
|-----------------------------|----------|
| 68 | % 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>.003</u> gms |
| Wt of Impurities: | Wt. of Clean Seed <u>.20</u> gms |
| • Crops _____ gms | TOTAL (Impurities + Clean Seeds) <u>.203</u> gms |
| • Inerts _____ gms <i>flower pieces</i> | Percent Purity = $\frac{\text{Wt. of clean seeds}}{\text{Wt. of Total}} \times 100 = \underline{98} \%$ |
| • Weeds _____ gms | |
| • Noxious _____ gms | |

SEEDS PER POUND

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

.095 .095 _____
 TOTAL of ALL Reps: _____
 Average: .095

** 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 = .95 = 1000 seed wt.
 Seeds per Pound = 477,400

FINAL PACKAGING for Seed Storage/Transfer

| Bag # | Bag Wt. | Bag # | Bag Wt. |
|------------------|-------------|----------|-------------|
| Bag # 1 | <u>.137</u> | | |
| Bag # 2 | | | |
| Bag # 3 | | | |
| Bag # 4 | | | |
| Bag # 5 | | Last Bag | |
| TOTAL Wt. | | | <u>.137</u> |

Transaction Fee: _____

Seedbank Location _____

| SEED TRANSFER Log Number <u>0231up08</u> | | | |
|--|-------------|----------|-----------------|
| Date | Wt. Shipped | Ship via | Purpose Remarks |
| <u>1/4/08</u> | | | |

| DATE | Start | Stop | Process | Initials |
|-----------------|-------------|-------------|----------|-----------|
| <u>12/12/07</u> | <u>1325</u> | | 226-test | <u>AC</u> |
| | | <u>1400</u> | 2270-pkg | <u>AC</u> |

| | |
|---------------|-------------------------|
| <u>got it</u> | ID card file sample |
| | Regional Office ID file |

POSTED TO: Lot Completion Logbook Computer NMIS _____