**Seeds of Success Annual Report (CA330) 11\_02\_10**

**Organization:** Bureau of Land Management (BLM) Arcata Field Office

**Team Code:** CA330

**Location:** Arcata, California

**Collecting Season Summary (accomplishments and challenges):**

Eight (8) species representing eight collections were sent to the Bend Seed Extractory destined for permanent storage at the National Seed Repository in Pullman Washington. Collections were made by Chicago Botanic Intern Zach Marine; with assistance from Jennifer Wheeler (BLM botanist). The species are listed below in the Distribution Table.

Three (3) endangered species were collected representing three collections under Recovery Permit TE233331-0 and sent to Rancho Santa Ana Botanic Garden for permanent storage and conservation purposes under California State Office ARRA funding.

One (1) large collection of *Festuca californica* was made for the purpose of propagation and development of native grass plugs for later transplanting to prairie restoration sites at Lacks Creek Management Area.

Finally, (10) native perennial bunchgrass species and two (3) forbs were collected (see Distribution Table below for species list) representing a total of 34 collections. These collections are being grown out in a local nursery in the Mattole Valley that the BLM helped create in order to propagate material for native perennial grass restoration in local coastal prairies, rehabilitation of disturbed sites, and reintroduction to appropriate niches throughout the King Range to enhance their distribution and chances for ecological resilience and long term sustainability.

**Total Number of species collected: 23**

**Total Number of collections made: 46**

**Organizations that provided volunteers, and how many:** The Mattole Restoration Council provided Americorps Watershed Stewards, as well as high school student interns, to assist in native grass collections.

**Partners (FWS, FS, NRCS, etc…) and in what capacity you worked together:**

The local, non-profit organization Mattole Restoration Council (www.mattole.org) made native perennial bunchgrass collections and developed nursery stock under BLM direction. Partnership is through Cooperative Agreement. The King Range native perennial bunchgrass enhancement project is obligated by amendment under the Cooperative Agreement.

**Education and Outreach:** Provided peer reviewed poster and served on an ‘ask the expert’ panel at the California Native Grass Association Annual Symposium June 2010; presented a full length evening program at a local April 2010 CNPS chapter meeting with a packed house of about 80 people entitled “Coastal Grassland Treasures – Contemporary Conservation Challenges and Pathways to Restoration”; and also provided a peer reviewed poster at the May 2010 National Native Seed Conference in Snowbird, Utah, highlighting the native bunchgrass enhancement program in the King Range.

**Distributions:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Species** | **SOS Seed Coll. Ref. Num (NV030-xx or CBG-xx)** | **Receiving Institution** | **What the SOS Material will be Used For** |
| Layia carnosa | CA330-108 | Rancho Santa Ana | Conservation storage |
| Erysimum menziesii ssp.  Eurekense | CA330-109 | Rancho Santa Ana | Conservation storage |
| Arabis macdonaldiana | CA330-110 | Rancho Santa Ana | Conservation storage |
| Festuca idahoensis | CA330-111 | Bend Seed Extractory | Conservation storage at Pullman, WA |
| Festuca californica | CA330-112 | Bend Seed Extractory | Conservation storage at Pullman, WA |
| Melica spectabilis (may in fact be M. geyeri) | CA330-113 | Bend Seed Extractory | Conservation storage at Pullman, WA |
| Danthonia californica var. americana | CA330-114 | Bend Seed Extractory | Conservation storage at Pullman, WA |
| Festuca californica | CA330-115 | Bend Seed Extractory | Conservation storage at Pullman, WA |
| Festica californica | Ca330-115a | Humboldt Fish Action Council Native Plant Nursery | Grow out plugs for use in prairie restoration projects-Lacks Creek MA |
| Ribes roezlii var. cruentum | CA330-116 | Bend Seed Extractory | Conservation storage at Pullman, WA |
| Ribes roezlii var. amictum | CA330-117 | Bend Seed Extractory | Conservation storage at Pullman, WA |
| Arctostaphylos Manzanita ssp. glaucescens | CA330-118 | Bend Seed Extractory | Conservation storage at Pullman, WA |
| Achnatherum lemmonii | 2 collections | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Bromus carinatus | 1 collection | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Calamagrostis foliosa | 6 collections | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Cirsium occidentalis | 2 collections | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Danthonia californica | 3 collections | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Deschampsia cespitosa var. holciformis | 2 collections | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Elymus multisetus | 2 collections | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Eriogonum sp. (nudum) | 1 collection | CA330 (nursery w/ (MRC partner | restoration and prairie enhancement |
| Festuca idahoensis | 5 collections | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Koeleria macrantha | 4 collection | CA330 (nursery w/ (MRC partner) | restoration and prairie enhancement |
| Lupinus bicolor | 1 collection | CA330 (nursery w/ (MRC partner | restoration and prairie enhancement |
| Melica californica | 2 collections | CA330 (nursery w/ (MRC partner) | working toward successful establishment after transplantation into natural prairie; once establishment success is made certain, will do further work with this species for restoration and prairie enhancement. |
| Nasella pulchra | 3 collections | CA330 (nursery w/ (MRC partner) | See ME CA above |

**Internal Research:** See 'what SOS materials will be used for' notes above