

Project Number COPMC-S-0308CR
Annual Report 2004
By: Manuel Rosales

**GREAT SAND DUNES NATIONAL MONUMENT
AND PRESERVE
COOPERATIVE AGREEMENT**

**Project Number COPMC-S-0308CR
Annual Report 2004**

INTRODUCTION - This report covers the activities of the Upper Colorado Environmental Plant Center (UCEPC) as they relate to Interagency Project Number IA1211-03-001 for the production of seed materials for Great Sand Dunes National Monument and Preserve. This agreement was signed into effect in February of 2003, and calls for the production of two materials (Blue grama and Indian ricegrass) through 2005 for revegetation uses within the monument. In addition, an amendment to the above interagency agreement was signed in 2004. The amendment stipulates that UCEPC will establish two-tenths of an acre seed increase of ring muhly (*Muhlenbergia torreyi*)

ACTIVITIES – As per agreement the three native grass species were planted in July 2004

The following table summarizes the project to date.

Species	Scientific Name	Accession Number*	Establishment Acres	Target Production	Planting Date
Blue grama	<i>Bouteloua gracilis</i>	9070998	1.0	54 lb	7/23/04
Indian ricegrass	<i>Achnatherum hymenoides</i>	9070999	0.5	26 lb	7/27/04
Ring muhly	<i>Muhlenbergia torreyi</i>		0.2	**	7/30/04

* Assigned accession numbers for germplasm tracking through time

** Undetermined

In addition to the above seeding, park personnel collected seed that resulted in 302 clean grams of ring muhly and 117 clean grams of blue grama. Both species were cleaned by UCEPC.

RESULTS – The three species planted during the month of July had some germination after three weeks, and we are expecting to get some seed production by the end of the 2005 growing season.