

MESA VERDE NATIONAL PARK
1996 Annual Report
 prepared by

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INTRODUCTION: The Upper Colorado Environmental Plant Center (UCEPC) entered into an agreement with Mesa Verde National Park on September 26, 1990. This agreement was amended in 1995 and now involves a total of 19 species, with 1342 lbs. of seed production and 5172 live plants. Targeted species with (PLS) pounds and number of transplants (T) desired are: 9024897 *Pascopyron smithii* (western wheatgrass) 160 PLS, 9024892 *Elymus trachycaulus* spp. *trachycaulus* (slender wheatgrass) 840 PLS, 9024893 *Leymus salinus* (salina wildrye) 67 PLS, 9024881 *Poa fendleriana* (muttongrass) 104 PLS, 9024883 *Achillea millefolium* (yarrow) 50 PLS, 9024870 *Aster, glaucodes* (blue leafedaster) 3 PLS, 9024873 *Chrysopsis villosa* (hairy goldenaster) 38 PLS, 9024886 *Artemisia ludoviciana* (Louisiana sage) 65 PLS, 9070862 *Penstemon linarioides* (low penstemon) 500 (T), *Lupinus caudatus* (spur lupine) 500 (T), *Oenothera caespitosa* (evening primrose) 500 (T), 9024869 *Amelanchier, utahensis* (Utah Serviceberry) 25 (T), 9024874 *Cercocarpus montanus* (mountain mahogany) 3 PLS and 500 (T), 9024898 *Symphoricarpos oreophilus* (snowberry) 4 PLS and 700 (T), 9024895 *Quercus gambelii* (gamble oak) 10 PLS and 250 (T), 9024878 *Atriplex canescens* (fourwing saltbush) 950 (T), 9024872 *Purshia tridentata* (antelope bitterbrush) 13 PLS and 800 (T), 9024899 *Pinus edulis* (pinyon pine) 10 PLS and 445 (T), and 9024880 *Juniperus osteosperma* (Utah juniper) 2 (T).

ACCOMPLISHMENTS: The following species had seed (S) collected from the park, seed harvested (H) at the UCEPC, or were delivered to the park as live (L) plants or seed (S). Plant materials were provided three times during 1996, to the park.

<u>COLLECTION OR HARVEST</u>			<u>DELIVERY TO PARK</u>		
<u>SEED</u>	<u>Clean seed</u>		<u>LIVE PLANTS (L) OR SEED (S)</u>		
Muttongrass	30.00 lbs.	(H)	Mutton grass	49.24	(S)
Slender wheatgrass	25.50 lbs.	(H)	Slender wheatgrass	367.90	(S)
Yarrow	27.50 lbs.	(H)			
Louisiana sage	5.96 lbs.	(H)			
Hairy goldenaster	5.10 lbs.	(H)			
Snowberry	42.00 gms.	(S)	Snowberry	33.00	(L)
Salina wildrye	343.00 gms.	(H)	Salina wildrye half pickup	1.26	(S)
			(L)		
Western wheatgrass	2.30 lbs.	(H)	Western wheatgrass half pickup (L)	20.00	(S)
Evening Primrose	4.00 gms.	(H)	Low penstemon	9.00	(L)

TECHNOLOGY DEVELOPMENTS: Five 10 ft. rows of Utah serviceberry were planted as a test in 1994 and were evaluated in 1996. Hulled seed collected in 1994 and planted in groups of 16 and kept moist in May were best. In 1996 a 10 ft. row of low penstemon, evening primrose and spur lupine were planted from seed for a test.