

## **Pollinator Management: Grassland Restoration at Camp Bowie Training Center**

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In June, the *Central Texas Native Seed Project* (CTNSP) began a pollinator habitat restoration project in cooperation with the Texas Military Department at Camp Bowie Training Center in Brown County. Our objectives are to reduce the density of Texas wintergrass and increase biodiversity by establishing native forbs and legumes. This will be done by planting a native seed mix designed specifically for the site.

Eighty-five acres of the grassland will be prepared for seeding by combinations of mowing and herbicide application. The native forb and legume seed mix will be planted using a no-till seed drill. Monitoring of treatment effects will include species performance related to soil type, planting date, planting technique, site prep, geographical location, and seed mixture composition. Sampling will occur during the spring and fall for several years to capture the variation in cool and warm season species. Analyses will also be done on performance of individual species to evaluate how each species compares to its relative percentage of the seed mix.

Results will be reported to inform land managers on seed mix components that are best suited for pollinator habitat restoration in this region. Restoration of native plants should have a variety of benefits to wildlife and pollinator species, and it is a growing priority of land managers within the region.

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**Table.** Native pollinator seed mix to be planted and evaluated at the Camp Bowie training center in Brown County, Texas.

Common Name (by PLS)	Scientific Name	Seed Variety	Percent of Seed Mix
Velvet bundleflower	<i>Desmanthus velutinus</i>	Hondo Germplasm	5
Illinois bundleflower	<i>Desmanthus illinoensis</i>	Sabine	5
Engelmann daisy	<i>Engelmannia pinnatifida</i>	Eldorado	5
Partridge pea	<i>Chamaecrista fasciculata</i>	Comanche	5
Purple prairie clover	<i>Dalea purpurea</i>	Cuero	5
Awnless bushsunflower	<i>Simsia calva</i>	Venado or Plateau	5
Orange zexmenia	<i>Wedelia hispida</i>	Goliad Germplasm	5
Clammyweed	<i>Polanisia dodecandra</i>	Rio Grande	5
Maximillian sunflower	<i>Helianthus maximilliani</i>	Aztec	5
Prairie acacia	<i>Acacia angustissima</i>	Rio Grande or Plains	5
Redseed plantain	<i>Plantago rhodosperma</i>	STN-496	4
American basketflower	<i>Centurea americana</i>	-	3
White prickly poppy	<i>Argemone sanguinea</i>	-	3
Texas thistle	<i>Cirsium texanum</i>	-	3
Black-eyed susan	<i>Rudbeckia hirta</i>	-	2
Yellow neptunia	<i>Neptunia lutea</i>	-	2
Blue sage	<i>Salvia azurea</i>	-	2
Dotted gayfeather	<i>Liatris punctata</i>	-	2
Spider milkweed	<i>Asclepias asperula</i>	-	3
Cowpen daisy	<i>Verbesina enceloides</i>	-	2
Texas bluebonnet	<i>Lupinus texensis</i>	-	2
Huisache daisy	<i>Amblyolepis setigera</i>	-	2
Indian blanket	<i>Gaillardia pulchella</i>	-	5
Plains coreopsis	<i>Coreopsis tinctoria</i>	-	1
Mexican hat	<i>Ratibida columnifera</i>	-	5
Prairie verbena	<i>Verbena bipinnatifida</i>	-	1
Greenthread	<i>Thelmesperma filifolium</i>	-	5
Standing cypress	<i>Ipomopsis rubra</i>	-	2
Lemon mint	<i>Monarda citridora</i>	-	1