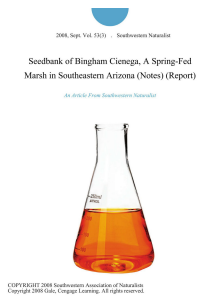


# VOICEOFMERCY.COM Ebook and Manual Reference

## SEEDBANK OF BINGHAM CIENEGA A SPRING FED MARSH IN SOUTHEASTERN ARIZONA NOTES REPORT EBOOKS 2019



Author: Southwestern Naturalist

Release Date: Lanzamiento previsto: @@expectedReleaseDate@@

ABSTRACT--Soil was collected in 2002-2003 from a cienega in southeastern Arizona to assess species present as seeds in the soil seedbank. In 2002, dominant vegetation was bulrush (*Schoenoplectus pungens*). Due to drought-related drying of the marsh and other hydrological changes, vegetation at the study site subsequently shifted to a monoculture of upland sunflower (*Helianthus annuus*). In greenhouse experiments, a total of 20 species germinated from the seedbank soil. The most abundant germinants were bulrush, cattail (*Typha domingensis*), and spikerush (*Eleocharis macrostachya*). The endangered Huachuca water umbel (*Lilaeopsis schaffneriana* ssp. *recurva*) germinated in several of the samples and additional seeds were present in the soil. A decline in total density of seeds occurred over the course of the study, probably due to loss of wetland species. Species composition of the seedbank and standing vegetation were not correlated, which is a common result in studies of seedbanks. If hydrology is restored, we predict many of the wetland species will germinate and recolonize the area, although this is limited by duration of seed viability. Thus, management of the wetland should include examination of current hydrology as soon as possible if natural reestablishment of wetland species, particularly Huachuca water umbel, is desired. RESUMEN--Tierra fue recaudada entre 2002-2003 de una cienega en el sudeste de Arizona para evaluar especies presentes como semillas en el banco de semillas de tierra. En 2002, la vegetación dominante en la cienega era junco (*Schoenoplectus pungens*). Debido a una sequía en el pantano y por otros cambios hidrológicos, la vegetación en el sitio del estudio ha cambiado a monocultivo de girasol (*Helianthus annuus*). En experimentos de invernadero, un total de 20 especies germinaron en el banco de semillas de tierra. Los germinantes más abundantes fueron junco (*S. pungens*), espadana (*Typha domingensis*) y *Eleocharis macrostachya*. La umbela acuática de Huachuca (*Lilaeopsis schaffneriana* ssp. *recurva*), que está en peligro de extinción, germinó en varias muestras y más semillas estuvieron presentes en la tierra. Durante el curso del estudio ocurrió una disminución en la densidad total de las semillas, probablemente atribuible a la desaparición de especies de pantano. La composición de especies del banco de semillas y la vegetación presente no estuvieron correlacionadas, lo cual es un resultado común en estudios de bancos de semillas. Si la hidrología es restablecida, predecimos que muchas de las especies de pantano van a germinar y recolonizar la zona, aunque esto se limita a la duración de la viabilidad de las semillas. Por lo tanto, el manejo del pantano debe incluir, tan pronto sea posible, el examen de la condición hidrológica actual si el restablecimiento de especies de pantano, particularmente la umbela acuática de Huachuca, es deseado.

Free PDF Seedbank Of Bingham Cienega A Spring Fed Marsh In Southeastern Arizona Notes Report Ebooks 2019ebook any format. You can get any ebooks you wanted like VOICEOFMERCY.COM in easy step and you can FREE Download it now.

You may download books from voiceofmercy.com. Resources is a high quality resource for free ePub books. Give books away. Get books you want. You have the option to browse by most popular titles, recent reviews, authors, titles, genres, languages and more. Project voiceofmercy.com is a great go-to if you want reading. This library catalog is an open online project of many sites, and allows users to contribute books. You may download books from voiceofmercy.com.

[DOWNLOAD Free] Seedbank Of Bingham Cienega A Spring Fed Marsh In Southeastern Arizona Notes Report Ebooks 2019 [Online Reading] at VOICEOFMERCY.COM

[Lars platzek](#)

[Nowhere near greenland](#)

[Oliver bell](#)

[Provence](#)

[Jack altman](#)

[Back to Top](#)