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New plant records for Nihoa, 2019

DANIELLE FROHLICH

Botanist/Invasive Species Specialist, SWCA Environmental Consultants, 1200 Ala Moana Blvd. #380, Honolulu, Hawaiʻi 96814, USA; email: dfrohlich@swca.com

This report documents two new island records for Nihoa, collected on a U.S. Fish and Wildlife Service expedition from September 17 to September 23, 2019. Both species were pulled, and best management practices were implemented to make sure they do not reestablish.

Information regarding the formerly known distribution of flowering plants is based on the *Manual of the Flowering Plants of Hawai'i* (Wagner *et al.* 1999) and information subsequently published in the *Records of the Hawaii Biological Survey*. All supporting voucher specimens are deposited at Bishop Museum's *Herbarium Pacificum* (BISH), Honolulu, Hawai'i.

Fabaceae

Canavalia cathartica Thouars

New island record

Canavalia cathartica has been collected as naturalized in most of the main Hawaiian Island chain, except for Ni'ihau, Lāna'i, and Kaho'olawe (Wagner et al. 1999). This voucher represents the first collection of this species from Papahānaumokuākea. It is unknown how this 5×6 meter patch arrived in this upland location on Nihoa island, but due to its large seed size, it is unlikely to have arrived as a contaminant on field equipment or other human-facilitated pathway. The patch was found in West Palm Valley and was flowering and fruiting at the time of collection. The patch was pulled and left on nearby rocks, and all seed pods were collected, bagged, and removed from the island. The site will be monitored during future visits to ensure no new plants can become established.

Material examined. NIHOA: Growing inland above Pritchardia remota forest, vining over bare rock and Solanum nelsonii in full sun, flowers bright pink, pods bright green, inflated, 21 Sep 2019, D. Frohlich & I. Cole s.n. (BISH 778278).

Poaceae

Eleusine indica (L.) Gaertn.

New island record

Eleusine indica has been collected as naturalized in most of the main Hawaiian Island chain and on Midway, French Frigate Shoals, and Kure in Papahānaumokuākea. A total of 282 individuals of this species were found on the island of Nihoa near a rocky outcropping in the *mauka* portion of the island. All individuals were pulled and bagged in an effort to stop further spread, and the site will be monitored during future surveys to make sure the species does not become reestablished.

Material examined. NIHOA: Bunching grass ca. 0.25 m tall, growing in soil near rocky outcropping, associated with Eragrostis variabilis, Panicum torridum, Solanum nelsonii, 20 Sep 2019, D. Frohlich, E. Sachs, & J. Vetter s.n. (BISH 765243).

LITERATURE CITED

Wagner, W.L., Herbst, D.R. & Sohmer, S.H. 1999. *Manual of the flowering plants of Hawai'i*. Rev. ed. University of Hawai'i Press and Bishop Museum Press, Honolulu, 1919 pp.