New plant records from Maui

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The following contributions include new plant records from the island of Maui. All records are for nonindigenous species. Voucher collections mentioned are housed in Bishop Museum’s Herbarium Pacificum (BISH), Honolulu, Hawai‘i.

Acanthaceae
Asystasia gangetica
subsp. micrantha (Nees) Ensermu  
New island record
First recorded as newly naturalized in the State on the island of Hawai‘i, along the Waïakea streambed near UH-Hilo (Starr & Starr 2016), Asystasia gangetica subsp. micrantha is here reported from Maui, where it was found in mesic to wet lowland areas of Huelo, Ha‘ikū, often growing along with the more commonly found A. gangetica subsp. gangetica in understory areas and along moist roadsides. Subspecies micrantha has a similar sprawling habit, but with much smaller flowers.

Material examined. MAUI: East Maui, Haʻikū, Huelo, Kulike Rd., trail to Pilale Bay, in mesic to wet lowland understory, in association with Asystasia gangetica subsp. gangetica, Acacia confusa, and Pandanus tectorius, 100 ft [30 m], (20.933658, -156.257065), 10 Jan 2022, Starr & Starr 220110-01; loc. cit., Waipiʻo Rd., scattered along roadside in mesic to wet lowland vegetation, in association with Mangifera indica and Sphagneticola trilobata, 500 ft [152 m], (20.911418, -156.230947), 10 Jan 2022, Starr & Starr 220110-02.

Amaranthaceae
Celosia argentea L.  
New island record
Celosia argentea (Silver cockscomb) was previously reported as naturalized by Oppenheimer (2003) from the island of Hawai‘i, in the vicinity of Waïakea Stream in Hilo. On Maui, it was recently found in a similar habitat, with numerous plants of all life stages observed along the stream margins of ‘Iao Stream at Kepehiwi Park.

Material examined. MAUI: West Maui, ‘Iao Stream, close to and scattered along the stream, in association with Buddleia asiatica and Amaranthus spinosus, 725 ft [221m], (20.882428, -156.535726), 03 Nov 2020, Starr & Starr 201103-01.

Asteraceae
Vernonanthura polyanthes (Spreng.) A.J.Vega & Dematt.  
New state record
Initially found by retired State Forester Bob Hobdy, who alerted us and the Maui Invasive Species Committee of its presence on Maui, Vernonanthura polyanthes (tree aster, assapeixe) is native to Brazil and is a known invasive species in parts of Africa, including Zimbabwe, where it was introduced as a nectar supply for bees, and has since spread along roadsides and forest margins (Wikipedia 2022). Aerial imagery showed this seasonally conspicuous tree was widespread on Maui, having invaded about 1,000 acres of...
abandoned pineapple fields, pastures, unmaintained areas, yards, and roadsides in the Haʻikū area from Māliko Gulch to Kaupakalua Gulch, between the elevations of 600 and 1,000 feet. Ground surveys confirmed the distribution, and located another location on West Maui in ʻĪao Valley. The ʻĪao Valley location was just a single small tree that was controlled. This species can be distinguished by the following characteristics: “Shrub or small tree, up to c. 4 m tall. Stems and branches with numerous, verrucose lenticels. Leaves alternate, oblong-lanceolate, up to c. 12 cm long, dull green and mostly hairless above, greyish stellate-hairy beneath; apex acuminate; margin serrate; petiole 5–7 mm long. Inflorescences in large terminal heads. Capitula white, without ray-florets” (Hyde et al. 2022).

Material examined. MAUI: East Maui, Haʻikū, side of Kokomo Rd., in fence row, in association with Megathyrsus maximus, Casuarina equisetifolia, Leucaena leucocephala, 800 ft [244 m], (20.903207, -156.322138), 10 May 2021, Starr & Starr 210510-01. West Maui, ʻĪao Valley, side of ʻĪao Stream, lone individual growing among large boulders, in association with Pluchea carolinensis, Casuarina equisetifolia, and Melinis repens, 875 ft [267 m], (20.881318, -156.542884), 11 Aug 2022, Starr & Starr 220811-01.

Lamiaceae
Salvia hispanica L. New state record
Previously unrecorded as present or naturalized in Hawai‘i, scattered plants of Salvia hispanica (chia) were found along a rural road margin in Piʻiholo, Maui. It is uncertain how these plants got there, or if they will persist. Additionally, an image was posted on iNaturalist in November 2021 of a wild Salvia hispanica in ʻĪao Valley, next to ʻĪao Stream. However, field surveys in August 2022 could not relocate it. It is uncertain whether we were searching in the wrong location, if the species is seasonal, or if the species no longer persists in ʻĪao. Chia is an annual herb native to Mexico and Guatemala, where it was cultivated as a crop by pre-Columbian Aztecs and Meso-American Indian cultures for medicinal and religious purposes (Petruzello 2020). In the 1980s chia gained popularity as “chia pets” and in the 1990s was popularized for its nutritious fiber and omega-3 fatty acids, and is now cultivated in various regions of the world. Chia has the following characteristics: “Chia is an annual herbaceous plant that can reach nearly 1 metre (3 feet) in height. Its lime-green leaves are oppositely arranged and have serrated (toothed) margins. The plant bears spikes of small blue, purple, or white flowers that have a high rate of self-pollination. The small oval seeds are about 1 mm (0.04 inch) in diameter and feature a shiny, mottled, or speckled seed coat that ranges in colour from dark brown to gray-white. The seeds produce a mucilaginous gel when soaked in water” (Petruzello 2020).


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LITERATURE CITED


