

## New Plant Records from East Maui for 1998

Forest Starr, Kim Martz, and Lloyd L. Loope  
United States Geological Survey - Biological Resources Division  
P.O. Box 369, Makawao, HI 96768

The following contributions include new island records, new naturalized records, a range extension, and a name change of plants located on East Maui, Hawaii. Also included is a map of Maui showing locations of collections discussed in text (fig. 1). Voucher specimens are housed in the Bishop Museum, Honolulu (BISH).

### Acanthaceae

#### *Thunbergia laurifolia* Lindl.

#### New island record

Previously known from Kauai and Oahu (Wagner *et al.* 1990: 175), this collection represents a new island record of this species from Maui. *T. laurifolia*, a native of India, is often cultivated for its showy flowers and sprawling habit. It commonly escapes the confines of the garden and, although not known to produce seeds in the Hawaiian islands, this vine is well established and has been observed spreading vegetatively in the Wailua, Honomanu and Kokomo areas of East Maui.

*Material examined:* MAUI: Hana District, East Maui, Hana Hwy., West side of Honomanu gulch, along road nr. Kaumahina State Wayside, 360 ft [110 m], 07 May 1998, *Starr and Martz 980507-7* (BISH)

### Asteraceae

#### *Senecio madagascariensis* Poiret

#### New island record

Native to Madagascar and South Africa, this species was first discovered in the early 1980's by Parker Ranch staff on the Big Island (Motooka *et al.* 1996: 1). In 1994, Lorence *et al.* (1995: 24) reported *S. madagascariensis* as a new island record for Kauai where it was presumably introduced as a contaminant in grass seed used in a roadcut. *S. madagascariensis* can now be found occurring in lawns, pastures, and roadsides on East Maui in Pukalani and has also been observed in Makawao, Kokomo, Olinda, Kahului, Kula, and Ulupalakua. This plant is poisonous to horses, cattle, and other livestock and has been implicated in the death of a pony in Kokomo.

*Material examined:* MAUI: Makawao District, East Maui, Pukalani, Makani Rd., from horse paddock, 1440 ft [440 m], 15 February 1998, *Starr and Martz 980215-71* (BISH)

### Cucurbitaceae

#### *Coccinia grandis* (L.) Voigt

#### New island record

Native to Africa, Asia, and Australia, *C. grandis*, was previously known from Oahu and Hawaii (Wagner *et al.* 1990: 570) and was first reported from Maui in 1992 by Robert Hobdy in Kahului's industrial district (Medeiros *et al.* 1993: 89). *C. grandis* is established in Kihei and has also been observed in Waiehu, Waikapu, Makawao, North Kihei, Lahaina, Kaanapali, and Honolulu.

*Material examined:* MAUI: Wailuku District, East Maui, North Kihei, at intersection of Konale and Aliilani, 20 ft [6 m], 27 January 1998, *Starr and Martz 980127-12* (BISH)

### Oleaceae

#### *Olea europaea* L. subsp. *cuspidata* (Wall. Ex G. Don) Ciferri

#### New naturalized record

[*Olea europaea* L. subsp. *africana* (Mill.) P. Green]

Native to the Mediterranean region, Wagner *et al.* (1990: 992-993) reported this subspecies as being "naturalized and becoming a serious pest on Hawaii in the vicinity of Ainahou Ranch...since the fruit is a food source for game birds and since it is widely cultivated in Hawaii, it will presumably become more widely naturalized". This subspecies was reported as a new island record for Kauai in 1994 by Lorence *et al.* (1995: 42). The article describes this subspecies as "becoming abundantly naturalized from planted trees". On Maui, this subspecies has also been widely planted, has escaped from gardens, and is naturalized in at least the Kula area.

*Material examined:* MAUI: Makawao District, East Maui, Kula, Pulehunui, from abandoned lot off side of Haleakala Hwy., 3640 ft [1110 m], 14 November 1997, *Starr and Martz 971114-2* (BISH)

***Olea europaea* L. subsp. *europaea*****New naturalized record**

Cultivated for more than 4,000 years (Neal 1965: 677), this native of the Mediterranean region is reported by Wagner *et al.* (1990: 992-993) as “recently naturalized but spreading rapidly by game birds on Parker Ranch, west of Keamuku Camp, Hawaii”. On Maui, this subspecies has not spread as rapidly as subspecies *cuspidata* (syn. *africana*) but has proliferated beyond original plantings and is naturalizing in the Kula area.

*Material examined:* MAUI: Makawao District, East Maui, Kula, Aapueo, Haleakala Hwy., adjacent to pasture land, 2720 ft [830 m], 17 August 1998, *Starr and Martz 980817-1* (BISH)

**Passifloraceae*****Passiflora laurifolia* L.****Range extension**

*P. laurifolia*, a native of Central and South America, is reported by Wagner *et al.* (1990: 1011) from Kauai, Oahu, Molokai and Hawaii. In 1997, Meidell *et al.* (1998: 7) reported *P. laurifolia* as a new island record for West Maui. This collection represents the range extension of *P. laurifolia* to East Maui. The collection was made from a forested thicket of *Hibiscus tiliaceus*, *Psidium guajava*, *Ardisia elliptica* and *Pandanus tectorius*.

*Material examined:* MAUI: Hana District, East Maui, Wailua, Hana Hwy., Wailua Valley lookout park, 480 ft [145 m], 04 August 1998, *Starr and Martz 980807-22* (BISH)

***Passiflora x violacea* Loisel****New island record, name change**

[*Passiflora caerulea* sensu Degener (1934), Wagner *et al.* (1990), non L.]

*P. x violacea* is a hybrid between *P. caerulea* and *P. racemosa*. It is the oldest documented *Passiflora* hybrid (Vanderplank, 1996: 174). Wagner *et al.* (1990: 1010) reported it under the misapplied name *P. x caerulea* as “easily propagated vegetatively, it has persisted since the 1920’s on Kauai and Oahu”. This collection represents a new island record of this species from Maui and a name change (Evenhuis, pers com).

*Material examined:* MAUI: Makawao District, East Maui, Piipholo Rd., collection made nr. Aloha o ka Aina farms from a vine growing with *Eucalyptus* and *Senecio mikanioides*., 3320 ft [1010 m], 06 April 1998, *Starr and Martz 980406-24* (BISH)

**Pittosporaceae*****Pittosporum viridiflorum* Sims****New island record**

*P. viridiflorum*, a native of South Africa, is previously known from Hawaii and Lanai (Wagner *et al.* 1990: 1048). This collection represents a new island record of this species from Maui. *P. viridiflorum* is known only from one abandoned pasture in Kula where it is persisting and spreading along with *Pennisetum clandestinum*, *Passiflora mollissima* and *Myrica faya*.

*Material examined:* MAUI: Makawao District, East Maui, Kula, Kekaulike Ave., 3250 ft [990 m], 01 May 1998, *Starr and Martz 980506-135* (BISH)

**Rubiaceae*****Paederia foetida* L.****New island record**

[*Paederia scandens* (Lour.) Merr.]

*P. foetida*, a native of Eastern Asia, is previously known from Kauai, Oahu and Hawaii where it is naturalized and locally common in disturbed mesic forest, coastal sites, dry forest, and subalpine woodland (Wagner *et al.* 1990: 1160). This collection represents a new island record of this species from Maui. The collection was made from a vine that was smothering a thicket of *Hibiscus tiliaceus* near Keanae School. It has also been observed in the village of Wailua.

*Material examined:* MAUI: Hana District, East Maui, Wailua, nr. Keanae School, 240 ft [75 m], 07 August 1998, *Starr and Martz 980807-12* (BISH)

**Scrophulariaceae*****Lophospermum erubescens* D. Don****New island record**

Wagner *et al.* (1990: 1244) report this native of Mexico from Oahu and Hawaii, where it is widely cultivated and sometimes naturalized in dry forest, alien grassland, and shrubland. On Maui, a single population was found by Emil Lynch in Hapapa gulch, Kula, Maui. This collection represents a new island record of this species from Maui.

*Material examined:* MAUI: Makawao District, East Maui, Kaonoulu, Kula, Hapapa gulch, collected by Emil Lynch, 3600 ft [1100 m], 04 April 1998, *Starr and Martz 980404-22* (BISH)

## Verbenaceae

### *Citharexylum caudatum* L.

### New island record

*C. caudatum*, a native of Central and South America, is previously known from Oahu where it is "spreading rapidly via bird dispersal out of Manoa Valley into the Koolau Mountains" (Wagner *et al.* 1990: 1317). This collection represents a new island record of this species from Maui. It has also been observed near Kolea stream on the Hana Hwy.

*Material examined:* MAUI: Makawao District, East Maui, Haiku, Pauwela, in bamboo thicket off W. Kuiaha Rd., 720 ft [220 m], 02 April 1998, *Starr and Martz 980402-49* (BISH)

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