‘Starfire’ Cuphea Hybrid

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‘Starfire’ is a sterile hybrid of Cuphea ignea A. DC. x Cuphea angustifolia Jacq. ex Koehne and is intended as a pot plant for greenhouse or home (Fig. 1). ‘Starfire’ is the first reported hybrid between these two species (Thompson et al., 1989) and has unique flower and foliage characteristics.

Origin

‘Starfire’ is an F1 hybrid (no. 1070) resulting from a cross between Cuphea ignea (PI 534890) and Cuphea angustifolia (PI 534892) made at the U.S. Water Conservation Laboratory (USWCL), Phoenix, AZ. PI 534890 was derived from a commercial cultivar obtained from Park Seed Co. by Shirley Graham of Kent State University, Kent, Ohio. PI 534892 was derived by A.E.T. from a wild collection from Oaxaca, Mexico. Both of these accessions were donated to the National Plant Germplasm System by the USWCL in 1986. This hybrid was released jointly by U.S. Dept. of Agriculture–Agricultural Research Service–USWCL and the Univ. of Arizona, Tucson, in 1990. The hybrid was made in Apr., 1986 (Thompson et al., 1989) and has been propagated from cuttings since then. It is the first intergeneric hybrid known in the genus Cuphea (Rom et al., 1990).

Cuphea ignea (section Moholiana), commonly known as the “firecracker” or “Mexican-cigar” plant, is grown commercially as a pot plant. It is a spreading shrub, 30 to 50 cm tall. The leaves are lanceolate to ovate, 20 to 40 mm long and bright green with paler green abaxial surfaces. The tubular calyces are generally bright red-orange, tipped dorsally in white and ventrally in dark purple and are 18 to 26 mm long. Other calyx colors have been reported but are rather rare (S.A. Graham, personal communication, 1993) in this species. There are no petals (Bailey, 1939; S.A. Graham, personal communication, 1993).

Cuphea angustifolia (section Heterodon), a wild species native to southern Mexico (Graham, 1988), is a 50- to 150-cm-tall, herbaceous to subshrubby perennial. Its leaves are narrowly lanceolate to linear and 40 to 100 mm long. The calyx tube is 10 to 14 mm long, dorsally light purple, and ventrally pale purple to nearly white. There are six petals, two dorsal and four ventral, which is the typical arrangement for the genus. They are subequal, 3 to 7 mm long, and pale to medium purple.

Description

‘Starfire’ is intermediate in size to its two parents, 50 to 75 cm tall and 60 to 75 cm wide, with the spreading subshrub shape of the C. ignea parent (Fig. 2). Leaves are dark green (green 137A; Royal Horticultural Society, 1966) with a light-green (green 138C) lower surface as in the C. ignea parent but are more narrowly lanceolate, 30 to 40 mm long and 12 to 20 mm wide. ‘Starfire’ flowers continuously once cuttings are established. Calyx tubes are striped pink (pink 63B) on white, dorsally tipped in white, and 10 to 15 mm long, with a pronounced spur. Dorsal petals are white with a purple (purple 75A) vein, ~5 mm long. Ventral petals are purple (purple 75A) to almost white (purple 75D) and are ~3 mm long.

Fig. 1. ‘Starfire’ Cuphea hybrid plant.

Fig. 2. Closeup of ‘Starfire’ Cuphea hybrid flowers and foliage.
Characteristics and use

‘Starfire’ has a less dense, but more vigorous, growth habit than its C. ignea parent. It is particularly adapted as a potted plant and possibly would be useful as a hanging plant for greenhouse or household use. It may have potential as a bedding plant but has not been evaluated for this purpose.

Inasmuch as this is a sterile hybrid, it must be propagated vegetatively. Cuttings root readily with no chemical treatment of any kind when placed in potting soil and kept for 1 week to 10 days under intermittent mist at 20 to 25°C. Cuttings grow rapidly, reaching full growth and flower within 4 to 5 weeks when grown in the greenhouse (20 to 25°C, ambient relative humidity 50% to 95%, and a 16-h light period with high-intensity, metal-vapor lights).

Availability

A limited number of cuttings can be obtained by writing to the North Central Regional Plant Introduction Station, Iowa State Univ., Ames, IA 50011; fax 515/292-6690.

Literature Cited


