

A NEW SPECIES OF ZANTHOXYLUM IN TAIWAN

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Zanthoxylum wutaiense I. S. Chen sp. nov.

Arbor vel frutex usque ad 3 m altam. Ramuli laevigati cum vel sine spinosis incurvatis. Folia pinnate composita, alternata, petiolis 3~8 cm longis, rhachidi sursum leviter cum foliaceis appendiculata. Folia 3~13, sessilia, opposita, coriacea, oblonga ad oblonge lanceolata, 3~10 cm longa, 1~2 cm lata; folia terminantia longiore, apice acuminata, basi attenuata vel cuneata. Flos dioedus in parvis axillari paniculis ca. 1 cm longis, pedicello 3 mm longo. Flos masculus sepala 5~8 gracilia oblonga petalis deficientibus, staminibus 5~8 exsertis antheris ovoideis, introrsis. Flos femineus ovarii appendiculatis, ovoide oblongis, stylis brevibus, stigmate capitato. Fructus cum 1~2 carpellis, ca. 5 mm unusquisque dehiscentes verticale in duovalvis, semine unico, nigro-nitido.

HAB. Circa 900~1,400 m alt., Wu-Tai,

Pingtung Hsien, Taiwan; leg I. S. Chen; Mar. 29, 1972; Typus No. 2440.

Small trees or shrubs up to 3 m high, barks grayish-white, with tuberculate prickles, branches erected, branchlets glabrous, red, often with hooked prickles, lenticels distinct. Leaves pinnately compound, alternate, petioles 3~8 cm long, the upper part of rachis slightly winged, leaflets 3-13, sessile, opposite, coriaceous, oblong to oblong-lanceolate, 3~10 cm long, 1~2 cm broad, the terminal one largest, acuminate at apex, attenuate or cuneate at base, lateral veins 7~16 per side, distinct, midrib raised at both sides, margins crenate, glabrous, oil gland distinct, pale beneath. Flower dioecious, yellow, small, axillary; panicles, about 1 cm long, pedicel 3 mm long; male flower: sepals 5~8, slender oblong, glabrous, petal wanting, stamens 5~8, alternate, exserted, anthers introrsed, reduced ovary present; female flowers: sepals same as that of male flowers, ovary ovoid-oblong, with appendage, styles short, stigmas capitate. Fruit ovoid, of 1~2 carpels, about 5 mm wide, each vertically dehiscent into 2 valves, seed 1, black, shining.

Chinese name: 霧台花椒 Wu-Tai hua chiao

Habitat: In forests of 900~1,400 m alt. Wu-Tai, Pingtung Hsien.

Distribution: Taiwan.

Specimens examined: Pingtung Hsien, Wu-Tai, Chen 2440 (Holotype—male flowers), March 29, 1972; 2512, 2519, (Female flowers and fruits), May 14, 1972.

This species can be easily distinguished by the leaflets 3~13 and inflorescence in small-axillary panicles.



Zanthoxylum wutaense I. S. Chen sp. nov.

1. Branchlets with male flowers.
2. Inflorescence of male flowers.
3. Bract.
4. Bracts with oil glands.
5. Male flower.
6. Stamens seen from both sides.
7. Reduced ovary.
8. Inflorescence of female flowers.
9. Female flower.
10. Pistil with appendage.
11. Pistil from side view.
12. Ovary in cross section.
13. Calyx.
14. Branchlet with fruits.
15. Fruits.
16. Fruits.
17. Fruit in cross section.
18. Seeds.
19. Branchlet with lenticels.
20. Leaf (surface) with oil glands.

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