**Tephrosia villosa**

*(L.)* Persoon

**Fabaceae - Papilionoideae**

**BOTANIC DESCRIPTION**

Tephrosia villosa is an annual or perennial bushy herb, 0.3-1.3 m tall. Stem white tomentose.

Leaves imparipinnately compound with 7-19 leaflets, up to 10 cm long; stipules 2-5 mm long; leaflets obovate to elliptical, up to 21 mm x 9 mm, hairy on both sides, each side with 4-8 pairs of distinct veins. Stipules tomentose, caducous and lanceolate.

Flowers in a terminal or upper axillary pseudoraceme 8-22 cm long; pedicel with densely matted hairs, 2-4 mm long; calyx densely matted-hairy, tube about 2 mm long, lobes long-acuminate, to 9 mm long; standard transversely elliptical to broadly ovate, up to 7 mm x 10 mm, dorsally with dense brown hairs. Style glabrous, up to 3-5 mm long, bent sharply upward at base, twisted, penicillate.

Pod strongly curved, up to 4 cm x 6 mm, densely silvery or brown-tomentose, hairs to 2 mm long, 4-10-seeded.

Seed 12-16, rectangular, black, smooth, with short hard excrescences, up to 4.5 mm x 2.5-2.75 mm.

The specific name 'villosa' means covered in white soft hair in Greek.

**BIOLOGY**

Flower in November and fruit in February in India.
**ECOLOGY**

*T. villosa* occurs in open fields, floodplains, often on sandy soils. It is tolerant of a long dry season and of heavy rain.

**BIOPHYSICAL LIMITS**

Altitude: 0-500 m.
Soil type: The species prefer sandy soils

**DOCUMENTED SPECIES DISTRIBUTION**

Native: India, Malaysia
Exotic: China, Indonesia, Madagascar, Pakistan

The map above shows countries where the species has been planted. It does neither suggest that the species can be planted in every ecological zone within that country, nor that the species can not be planted in other countries than those depicted. Since some tree species are invasive, you need to follow biosafety procedures that apply to your planting site.
Tephrosia villosa (L.) Persoon
Fabaceae - Papilionoideae

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PRODUCTS
Medicine: Leaf juice is used to treat dropsy and diabetes in India.

Poison: Toxic to livestock and also used as a fish poison.

SERVICES
Erosion control: In Africa, it is appreciated for its dense foliage hence annual cover crop.

Soil improver: Used as green manure and annual cover crop in Africa, tested in Indonesia.
Tephrosia villosa

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TREE MANAGEMENT

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PESTS AND DISEASES
A virus called symptomless causes no symptoms in susceptible species has been isolated only from species of Tephrosia in eastern Kenya
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FURTHER READING


SUGGESTED CITATION