

CANNABACEAE – INDIAN HEMP FAMILY

Plant: herbs and vines, some aromatic

Stem: juices not milky

Root:

Leaves: simple, alternate or opposite, toothed, palmately veined and usually lobed or divided; stipules present

Flowers: imperfect (dioecious); staminate flowers in racemes, panicles or spikes, no petals, 5 sepals (green to white), 5 stamens; pistillate flowers (surrounded by bracts) form a cup with ovary (superior) inside, 1 pistil, 2 styles, 2 carpels, 1 ovule

Fruit: achene, often with glands, 1 seed

Other: economically important; hemp and of course marijuana; Dicotyledons Group

Genera: 2 genera; locally *Humulus* (hops) and *Cannabis* (hemp)

Flower Morphology in the Cannabaceae (Hemp Family)

Examples of common genera



Marijuana [Indian Hemp]
Cannabis sativa L. (Introduced)



Japanese Hops
Humulus japonicus Siebold & Zucc. (Introduced)



American [Common] Hops
Humulus lupulus L.

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Marijuana [Indian Hemp]; *Cannabis sativa* L. (Introduced)

Japanese Hops; *Humulus japonicus* Siebold & Zucc. (Introduced)

American Hops; *Humulus lupulus* L.

Marijuana [Indian Hemp]

Cannabis sativa L. (Introduced)
Cannabaceae (Indian Hemp Family)
Oak Openings Metropark, Lucas
County, Ohio



Notes: dioecious, no petals, 3-5 parted greenish calyx on pistillate flowers, staminate flowers yellowish, flowers subtended with abundant bracts; staminate flowers with 5 sepals, greenish, no petals; leaves palmate, 3-7 coarsely toothed segments on long petiole; fruit an achene; plant tall; summer to early fall (varieties)

[V Max Brown, 2008]



Japanese Hops

Humulus japonicus Siebold & Zucc. (Introduced)

Cannabaceae (Indian Hemp Family)
Wilson's Creek National Battlefield,
Greene County, Missouri

Notes: vine; staminate flowers with 5 sepals, greenish, no petals; 2 pistillate flowers subtended by bracts, thread-like; leaves vary but most including the smaller ones have 5 to 7- (9) lobes, serrate, stiff hairs along veins on the under surface, long petiolate; stem with retorse prickly hairs; disturbed areas; summer to fall

[V Max Brown, 2010]



American [Common] Hops

Humulus lupulus L.

Cannabaceae (Indian Hemp Family)

Oak Openings Metropark, Lucas County, Ohio

Notes: vine; staminate flowers with 5 sepals, greenish, no petals; pistillate flowers subtended by bracts, thread-like; leaves vary from unlobed to 3 lobes (sometimes 5), serrate, petioles usually shorter than leaf; fruit with many overlapping bracts; summer to fall (varieties)

[V Max Brown, 2006]



Staminate flowers



pistillate flowers

