

## 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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**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

