

## KEY TO THE OHIO HICKORIES IN THE WINTER CONDITION

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*Hicoria* Raf. Large trees with hard, heavy and very tough wood; twigs very tough, with alternate leaf scars, not 2-ranked, without stipular and self-pruning scars; bundle scars scattered, sometimes in three areas; terminal bud present, large; bud scales usually numerous and imbricate or valvate and few, but at least 3 exposed, pubescent, sometimes peltate pubescent; axillary buds superposed or apparently single, not clustered at the tip of the twig; pith solid and 5-angled; fruit a nut with a husk.

1. Bud scales valvate, 3-5 exposed, yellow, peltate pubescent; pith brown; bark of trunk close and rough; husk of fruit thin, tardily and irregularly 4-valved, splitting to below the middle; nut smooth, thin shelled, short pointed; seed intensely bitter.

*H. minima* (Marsh.) Britt. Bitternut (Hickory).

1. Bud scales imbricate, more than 6, unless shed. 2.
2. Terminal bud large,  $\frac{1}{2}$ -1 inch long; husk of fruit splitting freely to the base; nut angled; seed sweet. 3.
2. Terminal bud small,  $\frac{1}{4}$ - $\frac{1}{2}$  inch long; husk thin, not splitting freely to the base; nut slightly or not angled. 5.
3. Lower bud scales deciduous; bark close, rough; twigs stellate pubescent; husk not separating quite to the base.

*H. alba* (L.) Britt. Mockernut (Hickory).

3. Lower bud scales persistent during the winter; bark shaggy, separating in long plates; husk very thick, splitting to the base. 4.
4. Terminal bud of the globose type, densely pubescent; fruit oblong; thick shelled, pointed at both ends.

*H. laciniosa* (Mx.) Sarg. Shellbark (Hickory).

4. Terminal bud of the ovate type, puberulent; fruit subglobose; nut thin shelled, rounded at the base.

*H. ovata* (Mill.) Britt. Shagbark (Hickory).

5. Bark close; fruit obovoid; nut thick shelled, angled; seed astringent and bitter, not edible. *H. glabra* (Mill.) Britt. Pignut (Hickory).
5. Bark of old trees separating in strips; fruit nearly globular; nut thin shelled, only slightly or not angled; seed sweet.

*H. microcarpa* (Nutt.) Britt. Small Pignut (Hickory).