KEY TO OHIO ALDERS IN WINTER CONDITION.

WILLIAM C. MORSE.

*Alnus* Gaert. Shrubs or trees with alternate leaf scars, not 2-ranked, twigs brown with prominent scattered lenticels; terminal bud present with about 3 visible scales; axillary buds single, large and prominently stalked or minute and not stalked; leaf scars triangular to subcircular; bundle scars 3–5; stipular scars present; pith prominently 3 angled or Y-shaped; both staminate and carpellate catkins present all winter, carpellate catkins woody, cone-like.

1. Twigs glutinous, black or brown dotted, nearly glabrous or with a few large scattered hairs, buds 4–5 lines long, stalks of the buds 2–3 lines long; staminate catkins dark purple; peduncle of fruiting catkins 2–6 lines long. A tree reaching a maximum height of 75 feet and a trunk diameter of 2½ feet; introduced.

   *A. glutinosa* (L.) Medic. European Alder.

1. Twigs coarsely pubescent, with comparatively few brown dots; buds 2–3 lines long; stalks of buds ½–1 line long; peduncle of fruiting catkins 2–6 lines long. A native shrub or sometimes a small tree.

   *A. rugosa* (Du Roi) Koch. Smooth Alder.

1. Twigs finely pubescent; buds 2–4 lines long; bud stalks ½–1 line long; fruiting catkins sessile or nearly so. A native shrub or rarely a small tree.

   *A. incana* (L.) Willd. Hoary Alder.