

OUR VARIETIES OF *BARBAREA VULGARIS*.—The introduced and naturalized *Barbarea vulgaris* R. Br. occurs with us as four well defined varieties. These I am distinguishing as follows:

- Pedicels ascending to appressed or erect; siliques erect or strongly ascending, closely overlapping, the raceme dense.
- Siliques (excluding beak) 1.5–3 cm. long.....*B. vulgaris* (typical).
- Siliques (excluding beak) 0.8–1.5 cm. long.....Var. *sylvestris*.
- Pedicels spreading; siliques arcuate-ascending to horizontally divergent, not imbricated, the raceme lax and open.
- Siliques (excluding beak) mostly 2–3 cm. long.....Var. *arcuata*.
- Siliques (excluding beak) mostly 0.7–1.5 cm. long.....Var. *brachycarpa*.

Typical *Barbarea vulgaris* is the introduced plant misidentified as *B. stricta* in Gray, Man. ed. 7. It is wide-ranging in eastern America. Var. *arcuata* (J. & C. Presl) Fries is the plant called in Gray, Man. ed. 7 typical *B. vulgaris*. It is also of wide range with us. Ordinarily var. *arcuata* is quite glabrous. A form of it with basal leaves, including petioles, copiously villous-hirsute has been found in Maine and New York. This is

BARBAREA VULGARIS R. Br., var. *ARCUATA* (J. & C. Presl) Fries, forma **hirsuta** (Weihe), stat. nov. *B. hirsuta* Weihe in Flora, xiii. 257 (1830). *B. vulgaris*, β . *bracteata*, sub-var. *hirsuta* (Weihe) Rouy & Foucaud, Fl. Fr. i. 198 (1893). *B. vulgaris*, var. *hirsuta* (Weihe) Fernald in RHODORA, xi. 139 (1909). *B. vulgaris*, subsp. *euvulgaris*, subforma *hirsuta* (Weihe) Hayek, Prod. Fl. Pen. Balc. i. 386 (1927).

The other two varieties are more local. Var. *sylvestris* Fries I have seen only from Anticosti Island, QUEBEC: along railroad, 25 miles inland, August 22, 1917, *Victorin*, no. 4364 (identified by me as var. *brachycarpa*), and from WASHINGTON: Seattle, July 1, 1889, *Piper*, no. 754. Var. *brachycarpa* is before me from various stations in Quebec, New Hampshire, Massachusetts and Connecticut. A double-flowered form, apparently of var. *arcuata* (the fruit not forming) has been found in Quebec. This is

B. VULGARIS, var. *ARCUATA*, forma **plena**, f. nov., petalis numerosissimis, staminibus petaloideis. QUEBEC: by brook, Wolfe Cove, August 6, 1902, *Williams & Fernald* (TYPE in Herb. Gray.).—M. L. FERNALD.

Volume 45, no. 534, including pages 217–264 and plates 749–761, was issued 29 May, 1943.



Fernald, Merritt Lyndon. 1943. "Our Varieties of *Barbarea vulgaris*." *Rhodora* 45, 304–304.

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