

nately were cut down before they could be fully studied suggest its presence north of the city in the vicinity of Winnetka.

That it differs from the ordinary black oaks to the eye of other than botanical observers is evident from the fact that an intelligent farmer had separated it from its congeners, calling it "yellow oak," and remarking the tendency of the lower limbs to die. No chestnut oaks, to which this name commonly applies, grew there, so that it could in no way be confounded with this, even if the leaves were not so different. Looked at in the summer it gives the impression of great leafiness, the leaves being small as a whole, and of airiness on account of its glossy and finely divided leaves. In the winter it impresses by the glitter of its smooth bright branches when free from leaves, and by its great twigginess, due to the spray repeatedly and finely dividing, forming an irregular network as one looks through it.

As the form of the acorns first suggested specific difference, and on the whole is the most constant characteristic, the name *Quercus ellipsoidalis* seems most appropriate.—E. J. HILL, *Chicago, Ill.*

EXPLANATION OF PLATES II AND III.

PLATE II.—*Quercus ellipsoidalis* Hill.—*a*, Flowering branch, natural size; *b*, staminate flower, enlarged nine diameters; *c*, pistillate flower, enlarged nine diameters; *d*, leaf, natural size; *e*, *f*, acorns, natural size.

PLATE III.—*Quercus ellipsoidalis* Hill.—*a*, Fruiting branch, five sixths natural size; *b*, nut, natural size; *c*, vertical section of nut, natural size; *d*, seed, natural size; *e*, winter branchlet.

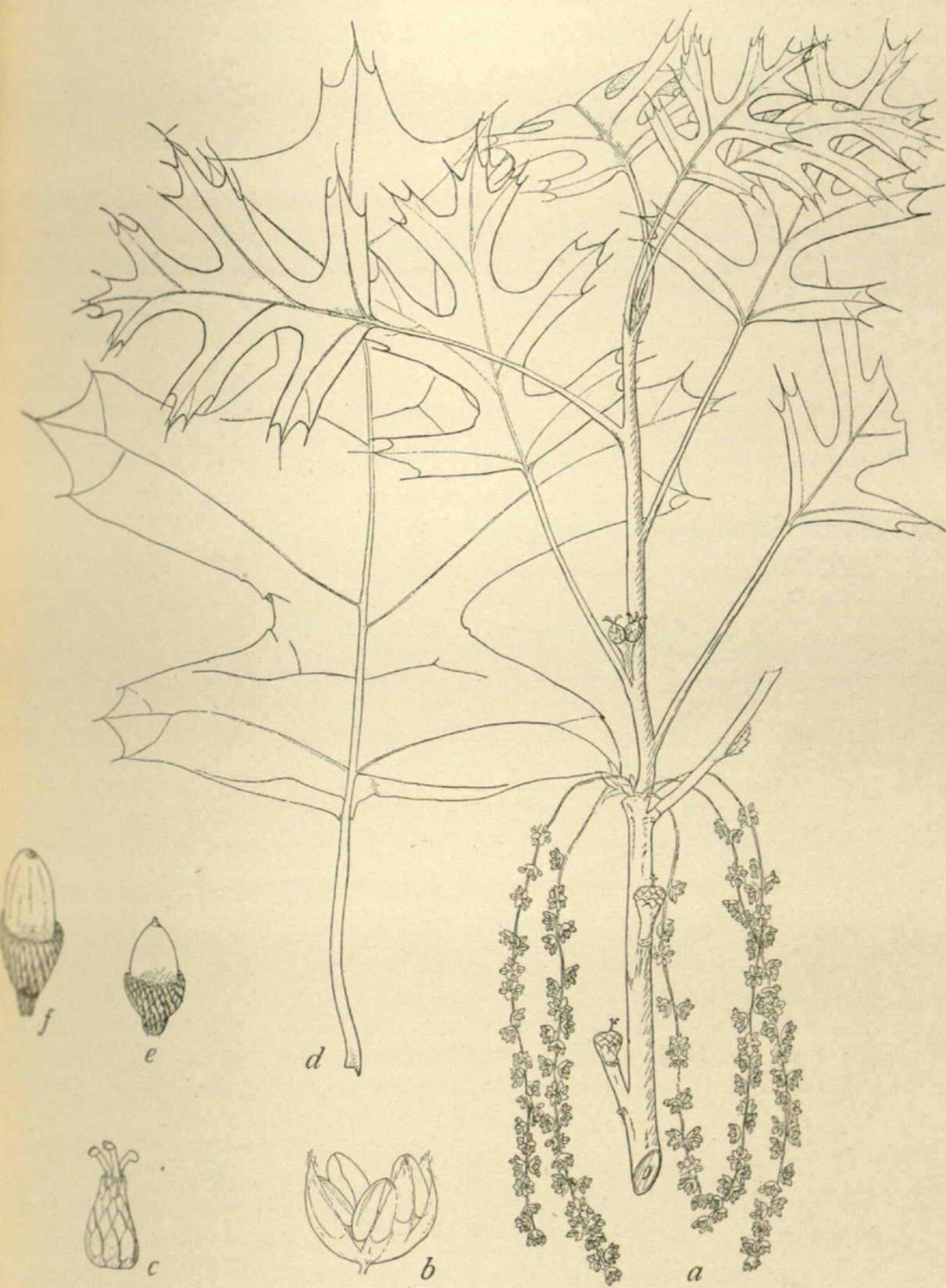
THE WYOMING SPECIES OF ANTENNARIA.

Most valuable and efficient work has been done recently by Drs. Greene¹ and Rydberg² in the long neglected genus *Antennaria*. A critical examination of the material in the Herbarium of the University of Wyoming in the light of these contributions has led to the discovery of a few forms, hitherto undescribed, which seem worthy of specific rank. It has seemed well, also, to make mention of all Wyoming species of which specimens are at hand.

***Antennaria reflexa*, n. sp.**—Low and cespitose, somewhat sublig-neous at base, with very short leafy offsets: stems 5–10^{cm} high: leaves

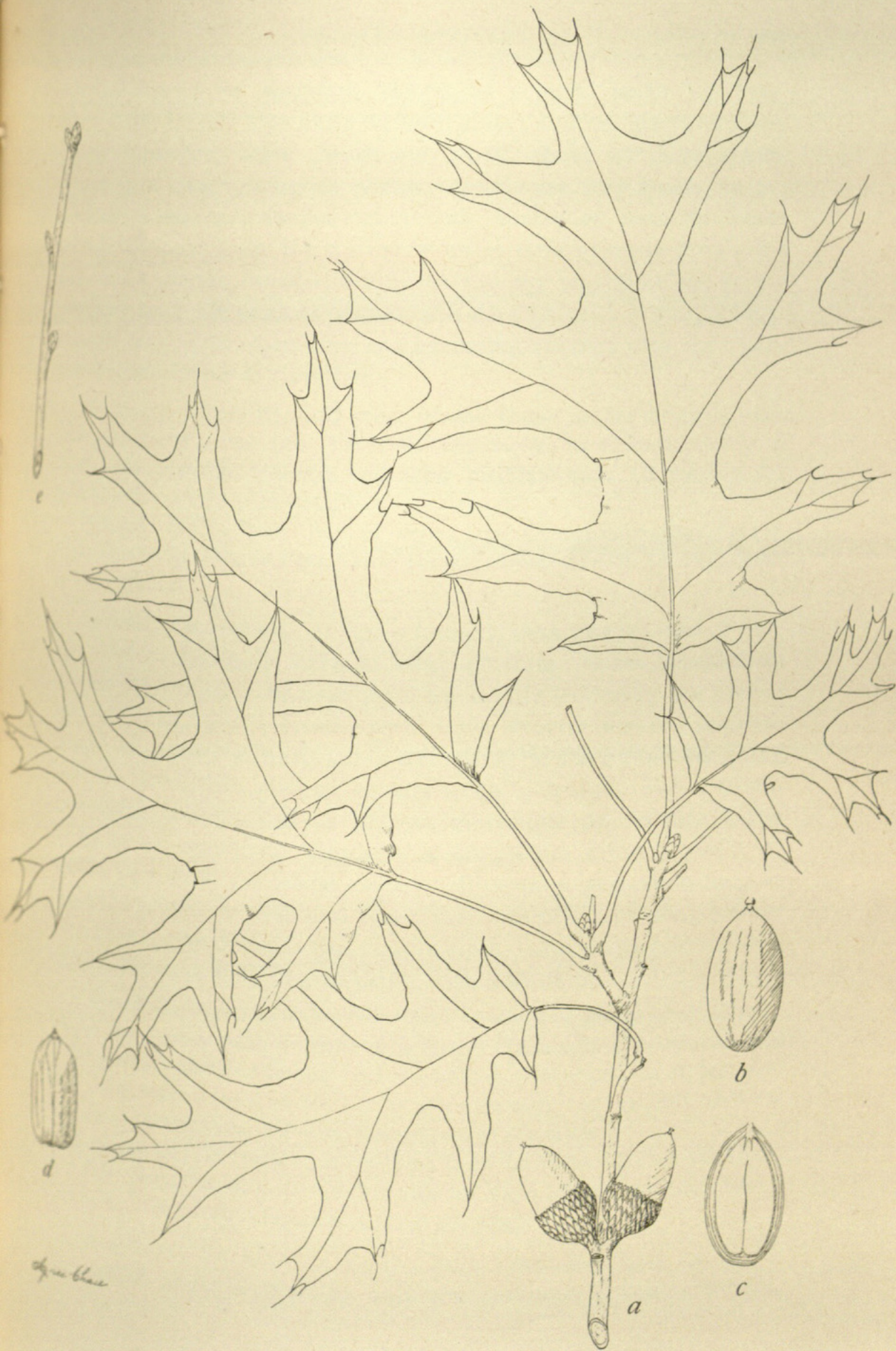
¹ Pittonia 3: 172, 273, 289.

² Bull. Torr. Bot. Club 24: 299.



Apex base

HILL on a NEW OAK.



HILL on a NEW OAK.

spatulate-obovate or spatulate, obtuse to acutish, about 1^{cm} long, rarely more, densely tomentose on both sides; cauline leaves narrowly oblong, obtusish to acute: heads very small, about 4^{mm} high, sessile, 3 to 8 in a close glomerate cluster: involucre very woolly, in the pistillate heads campanulate-cylindrical; bracts of pistillate heads narrow, the inner acute, the scarious portion dark greenish-brown, the outer much shorter, broader, woolly to the tip or almost so; in the staminate heads the scarious portion also dark greenish-brown, oblong-obovate, very obtuse, spreading and becoming reflexed with age: pappus of staminate heads clavellate.

This species differs from all other related forms in that the short outer bracts are woolly to the tip. From *A. umbrinella*, its nearest relative, it differs in its much darker bracts, and acute pistillate ones. It inhabits dry open hillsides at subalpine stations.

Type, no. 1265, in Herb. Univ. of Wyo., from Centennial valley, June 9, 1895; also no. 853, Union Pass, Wind River mountains, Aug. 11, 1894 (both by *Aven Nelson*).

✓ *Antennaria mucronata*, n. sp.—Loosely cespitose: stems 5–12^{cm} high; stolons sparingly leafy, at most 4^{cm} long: leaves oblanceolate or narrowly spatulate, the mucronate tip usually hidden by the tomentum, 2^{cm} long, 3–5^{mm} broad, both faces densely woolly-tomentose varying to sparse and hoary, only the lowest on the stolons becoming glabrate; these when glabrate equally so on both sides, with a prominent midrib beneath and an obvious mucronate tip; cauline leaves oblong-linear, acuminate: heads in a subcapitate cluster, sessile or pedicels very short, the lowest occasionally with a pedicel as long as the head: involucre woolly at base; bracts (pistillate) oblong-lanceolate, 5^{mm} long, the obtusish tips usually erose, the scarious portion dark greenish-brown or dark brown, rarely with a white tip.

A very distinct species, from the alpine summits of southeastern Wyoming. From *A. umbrinella* it differs in its longer oblanceolate leaves, its much darker greenish pistillate bracts, and its lighter tomentum. It is probably more nearly related to *A. media*, but its affinities with that species I have not been able to settle, there being no description of the latter.

Type, no. 5211, in Herb. Univ. of Wyo. from La Plata mines in the Medicine Bow mountains, Aug. 28, 1898; also by *Aven Nelson*, no. 4227, Battle Lake in the Sierra Madre mountains, Aug. 17, 1897.

ANTENNARIA UMBRINELLA Rydb., Bull. Torr. Bot. Club 24: 302.—This species is represented by only one specimen in this herbarium,

collected by Aven Nelson at the head of Green river, Aug. 14, 1894, no. 885. This is far from being typical. The leaves are narrowly oblanceolate, and the pistillate bracts are hardly obtuse. More material of this might prove it to be entirely distinct.

ANTENNARIA APRICA Greene, Pitt. 3: 274.—This excellent species is common in the foothills of the Laramie and Medicine Bow mountains, flowering early in the spring on sunny slopes. Many of our specimens have pinkish bracts (pistillate), and often as many as 14 heads in a cluster. The following are the specimens in the herbarium: no. 1269, Centennial valley, June 9, 1895; no. 149, Pole creek, June 3, 1894; Inyan Kara divide Aug. 29, 1892 (*B. C. Buffum*); no. 4347, Plumbago cañon, June 9, 1898.

✓ *Antennaria arida*, n. sp.—Cespitose, in dense mats formed by the numerous short (1^{cm} high) ascending sterile branches: stems 10–15^{cm} high, slender, wiry, weak above, the subcapitate cluster frequently nodding, loosely covered with shreddy wool: leaves crowded, spatulate, acutish, 0.8–1^{cm} long, densely and permanently hoary tomentose on both sides, inclined to be conduplicate and noticeably so in the younger leaves; cauline leaves oblong linear, acute, lightly hoary-tomentose, more or less twisted and curved: heads 6^{mm} high, sessile, 6–10 in a subcapitate cluster: involucre turbinate; bracts (pistillate) in about two series, all obtuse, scarious portion oblong, milk-white, occasionally the outer with a purplish streak.

A remarkably distinct species, from the arid region of southwestern Wyoming. Type in Herb. Univ. of Wyo., no. 4798, collected by *Aven Nelson* at Tipton, June 17, 1898.

✓ *Antennaria scariosa*, n. sp.—Cespitose, lightly hoary tomentose throughout: stems 3–6^{cm} high; stolons short, at most 4^{cm} long: leaves 1.4^{cm} long or less, spatulate, obtuse or acutish, inclined to be conduplicate; cauline leaves rather ample, oblanceolate varying to narrowly oblong, occasionally the lowest spatulate: heads 6^{mm} high, sessile, 6–8 in a subcapitate leafy-bracted cluster: bracts (pistillate) rather conspicuously scarious, all obtuse, the scarious portion milk-white elliptic to obovate.

In its floral character this is very closely allied to *A. arida*, differing only in its broader bracts. *A. scariosa* differs from that species, also, in its smaller size, its more prostrate habit, its larger radical leaves, and in its more ample cauline ones, which are never twisted. It also seems to be related to



Nelson, Elias. 1899. "The Wyoming Species of Antennaria." *Botanical gazette* 27(3), 208–212. <https://doi.org/10.1086/327815>.

View This Item Online: <https://www.biodiversitylibrary.org/item/94861>

DOI: <https://doi.org/10.1086/327815>

Permalink: <https://www.biodiversitylibrary.org/partpdf/222953>

Holding Institution

Missouri Botanical Garden, Peter H. Raven Library

Sponsored by

Missouri Botanical Garden

Copyright & Reuse

Copyright Status: Public domain. The BHL considers that this work is no longer under copyright protection.

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.