A. MODOCENSE. Allied to the last, the somewhat larger leaves apparently as constantly 5-lobed and with lobes radiant rather than pointing forward, the surface not wholly glabrous, some soft hairs appearing along the veins in some: flowers rather small, sepals, petals and even the anthers green, or greenish-white; sepals mostly (all the outer ones) merely oval, little exceeding the whitish petals, both sepals and petals sparingly hairy; fruit unknown.

Represented by only some flowering branches, with young foliage, collected near the Warm Springs, Modoc Co., California, 4 June, 1892, by M. S. Baker and Frank Nutting. While the leaves here are almost those of A. Macounii the flowers are very notably different; for in both that and A. circinatum the sepals are narrow, elongated to twice or thrice the length of the petals, and are of a dark red-purple. In A. Modocense they are not only green, but very short for those of any maple at all.

A NEW STUDY OF MICROSERIS.

Ahough the type of this genus is Chilian, the species are most numerous in California. My first critical study of them was made in San Francisco twenty years ago. I proposed then the two new species, M. attenuata, and acuminata, both of which have since obtained universal recognition.

The researches of three more seasons carried on in that field led to the expression of views that were published in 1886, according to which, out of the heterogenous "Microseris" of Gray's Synoptical Flora, Calais of De Candolle, and Scorzonella of Nuttall were restored, and two new genera, Ptilocalais and Nothocalais were proposed; while for the genuine Microseris, the new discovery was made that its species fell into two natural groups, according as the paleæ of the pappus are triangular and plane, or rounded and cymbiform. In this paper I added but

¹ Bull. Calif. Acad. ii, 41-55.

flowering scapes and almost equalling the fruiting ones, these 6 to 10 inches high: heads round-ovoid, less than ½ inch high: achenes 1½ lines long, short-columnar inclining to turbinate, the outer villous somewhat in lines, the others smooth, even the ribs not perceptibly scabrous under an ordinary strong lens; paleæ of the pappus 1 line long, slenderly subulate-lanceolate, remotely serrate-toothed, very thin, the delicate awn nearly 2 lines long, merely scaberulous, the whole pappus chestnut-brown.

Near Byron Springs, Calif., 24 March, 1889, collected by

myself; also near Chico, C. C. Parry, 1881.

M. CAMPESTRIS. Near the preceding, like it in size, habit heads, etc., but leaves less narrowly pinnatisect: achenes also in size and form much the same, rather larger, but more villous, the outer with thickened ribs obscurely roughened, those of the inner minutely but very saliently spinulose-serrulate; the pappus distinctive, consisting of nearly white ovate-lanceolate entire glabrous paleæ of a line long, and a tawny barbellulate awn somewhat longer.

The type is from Byron Springs, Calif., 24 March, 1889, collected by the writer. Sufficiently at agreement with it is a sheet of specimens from the same tract of interior plains further south, collected 28 March, 1886, by Dr. T. J. Patterson. I hesitate to refer to it a plant from Stony Creek in the Santa Lucia Mountains, May, 1897, collected by Miss Eastwood; for its pappus-paleæ are shorter, and are serrate-toothed, as in M. Bigelovii (i. e. my former M. intermedia).

M. COGNATA. Allied to M. acuminata, but smaller in all its parts, the decumbent-scapes slender, 3 to 6 inches high: involucres narrowly turbinate: achenes only 2 lines long, linear-fusiform, chestnut-brown, the ribs only delicately scabrous-serrulate; pappus 6 lines long, the paleæ linear-lanceolate, loosely appressed-villous both externally and within, tapering to a barbellulate awn of only about 2 lines' length.

Known only as collected by myself on the plains of the inte