

CALYCOSERIS, *Nov. Gen.*

Capitulum liguliflorum multiflorum. Involucrum campanulatum, duplex, interius e squamis circa 12 lineari-lanceolatis margine scariosis subuniseriatis; exterius calyculiforme, e squamis totidem brevibus laxis. Receptaculum planum, paleis tenuissimis piliformibus inter flores onustum. Achenia conformia, fusiformia, crasse 5-6-costata, muricato-scabra, apice attenuato-rostrata. Pappus duplex; exterior coroniformis persistens; interior pilosus, copiosus, setis mollibus niveis vix scabris basi in anulum concretis caducis. — Herba monocarpica, humilis, glabra; caule a basi ramoso; foliis pinnatipartitis, lobis rhachique linearibus; pedunculis breviusculis monocephalis ante anthesin nutantibus cum involucri basi hispido-glandulosis; floribus roseis.

CALYCOSERIS WRIGHTII. (Tab. XIV.) — Stony hills around El Paso, abundant; March, April. (1423.) — Plant about a span high, from a slender simple root, branched from the base; the branches or stems ascending, sparsely leafy, sparingly setose-glandular towards the summit. Leaves glaucescent, linear, and with few or several spreading linear lobes from 2 to 5 lines in length; the terminal lobe prolonged. Involucre half an inch long, externally sparsely beset, like the peduncle, with nail-headed glandular setæ. Ligules pale rose-color, marked with deeper purple underneath, half an inch long. Receptacle flat, about 25-flowered, areolate, each flower subtended by a delicate capillary bristle in place of a palea: these bristles, which may perhaps be compared with those of the receptacle of *Andryala*, are persistent, though rather fragile, and as long as the achenia. Achenia all alike, $2\frac{1}{2}$ lines long, terete, with 5 or 6 broad ribs separated by narrow grooves, tuberculate-roughened, tapering gradually into a thickish beak which is rather shorter than the body of the achenium, its dilated apex crowned with the hyaline crateriform outer pappus, the edge of which is even, but multidenticulate. Inner pappus pilose, bright white, consisting of copious and equal, scarcely denticulate, soft bristles, all rather firmly united into a ring at the base and deciduous together. — This well-marked genus (as well as *Anisocoma*, *Torr. & Gray in Bost. Jour. Nat. Hist.* 5. t. 13, which agrees with it in having an exterior coroniform pappus) will hardly find a place in any of De Candolle's subtribes, as they now stand. Disregarding this peculiar character of the pappus, *Calycoseris* would fall into *Rodigiæ*, if the setæ of the receptacle be taken for true paleæ. But if they are of the same nature as those of *Andryala*, the genus might be placed near *Crepis* and *Malacothrix*. However, it is hardly worth while to speculate upon its appropriate place until the whole tribe has undergone revision.

MALACOTHRIX FENDLERI: nana, glabrata; caulibus e radice exili plurimis diffusis; foliis junioribus parce arachnoideis, radicalibus runcinato-pinnatifidis dentatisve lobis cuspidato-mucronatis, caulinis paucis linearibus, summis integerrimis; acheniis fere cylindricis æqualiter multicostatis apice manifeste cupulato integerrimo; pappi seta unico validiore lævi subpersistente, cæteris scabris inferne barbelulatis caducis. — *M. sonchoides*, *Gray, Pl. Fendl. p.* 113, non *Torr. & Gray*. — Stony hills around El Paso, &c., abundant; March, April. (1424.) — The habit

- FIG. 5. The involucre and receptacle, from which the flowers have fallen, enlarged.
 “ 6. Achenium and pappus, magnified.
 “ 7. Vertical section of the achenium, showing the embryo, magnified.
 “ 8. Transverse section of the same.
 “ 9. One of the bristles of the pappus, highly magnified.

PLATE XIV. CALYCOSERIS WRIGHTII, p. 106.

- FIG. 1. Receptacle (the scales of the involucre reflexed), with its capillary setæ, and a single flower, enlarged.
 “ 2. An anther, more magnified.
 “ 3. Summit of the style, equally magnified.
 “ 5. Achenium, with its exterior coroniform pappus, and the capillary pappus detached, magnified.
 “ 6. Transverse section of a five-ribbed achenium, magnified.
 “ 7. Similar section of a six-ribbed achenium.
 “ 8. A separate bristle of the inner pappus, more magnified.

EXPLICIT. KAL. FEB. MDCCCLIII.



CALYCOSERIS WRIGHTII.

Sp. Progn.