

HAB. Gravelly hills of Kansas and Lower Platte Rivers with
Euchroma grandiflora. May. (n. 252.)

1. *Tetradymia canescens*, DC. in Deless. Ic. 4. t. 60. Hook. et Arn. Bot. Beech. Voy. Suppl. p. 360. Torr. et Gr. Am. 2. p. 447.

HAB. Clayey banks in the desert of Upper Colorado, with
Artemisia cana and *tridentata*. August. (n. 63.)

1. *Arnica Chamissonis*, Less.—Torr. et Gr. Am. 2. p. 449. *A. montana*, a. Hook. Fl. Bor. Am. 1. p. 330.

HAB. Scattered over the high fertile plains near Kooskooskee River; not common. June.—I fear this is nothing more than one of the numerous varieties of *A. montana*, L.

2. *A. cordifolia*, Hook. Fl. Bor. Am. 1. p. 331. Torr. et Gr. Am. 1. p. 450.

HAB. Light open pine-woods along the valley of Cœur d'Aleine River, in warm protected situations, growing in masses. April, May. (n. 309.)

Trib. CYNAREÆ, Less.

1. *Cirsium undulatum*, Nutt. (Carduus).—Torr. et Gr. Am. 2. p. 456. *C. Douglasii*, DC.

HAB. Fertile plains of the Lower Platte and Missouri rivers. June. (n. 122.)

2. *C. Hookerianum*, Nutt.—Torr. et Gr. Am. 2. p. 457. *Carduus discolor*, Hook. Fl. Bor. Am. 1. p. 302, (in part.)

HAB. High plains, Upper Oregon and Missouri territory. June, July. (n. 325).—I fear too near the preceding.

Trib. CICHORACEÆ, Vaill.

1. *Scorzonella* (§. *Ptilophora*, Torr. et Gr. mst.) *nutans*, Gey. mst. (under *Crepis*); glabra, radice tuberosa fusiformi, caule elongato gracili folioso, foliis basi amplexicaulibus linearibus integris varie pinnatifidisque inferne apiceque longe attenuatis, pedunculis gracilibus, capitulis in ramos ultimos seu pedunculos solitariis apice paululum dilatatis,

involucris foliolis exterioribus subquinque ovato-acuminatis brevissimis puberulis, pappi squamis oblongis albis setis plumosis triplo longioribus terminatis.

HAB. Dry sunny loamy declivities of Spokane and Cœur d'Aleine mountains. Root (nearly as large as the little finger) succulent and almost transparent, full of a bitterish, milky juice, eaten raw by the Indians. It renews itself every year. Heads nutant before flowering. June. (n. 376).—A very distinct species of *Scorzonella* (if *Scorzonella* be really distinguishable from *Calais*), and forming a section of Messrs. Torrey et Gray, on account of the plumose awns of the pappus. In general habit it a good deal resembles some of the narrow leaved varieties of *Scorzonella laciniata*, Nutt. (*Hymenonema? laciniatum*, Hook.)

1. *Stephanomeria minor*, Nutt.—Torr. et Gr. Am. 2. p. 472. *Lygodesmia minor*, Hook. *Fl. Bor. Am.* 1. p. 205. t. 103. A.)

HAB. Sterile sunny sandy declivities and on the tableaux of Trappe rocks, high plains of Spokane River. Rays pale lilac. August. n. 440.

2. *S. runcinata*, Nutt.—Torr. et Gr. Am. 2. p. 473.

HAB. Decomposed calcareous rocks, Upper Platte; rare. Grows also in the fissures of claystone rocks at Scott's Bluffs. June, July. (n. 43.)

1. *Hieracium Canadense*, Mx.—Torr. et Gr. Am. 2. p. 475. *H. umbellatum*, Hook. *Fl. Bor. Am.* 1. p. 300.

HAB. Borders of pine-woods, valley of Columbia River near Fort Colville. Common also in Illinois and Michigan. August. (n. 593.)

1. *Lygodesmia grandiflora*, Nutt.—Torr. et Gr. Am. 2. p. 485.

HAB. Gravelly and sandy slopes of the high plains near the banks of Platte and Laramie's Fork; rare. Rays of a rose colour; large. Growing with *Calochortus luteus*. July. (n. 156.)

1. *Malacothrix sonchoides*, Nutt.—Torr. et Gr. Am. 2. p. 486.