

## Lolium—continued.

arvense, L., v., 4  
 multiflorum, Lam., v., 4  
 italicum, L., v., 4

## Triticum

repens, L., v., etc., 4

## Hordeum

murinum, L., v., 6  
 sativum, L., a., 2  
 maritimum, L., v., 4  
 distichum, L., v., 1

ART.—XLIX.—*On some New Species of New Zealand Plants.*

By JOHN F. ARMSTRONG.

[Read before the Philosophical Institute of Canterbury, 4th October, 1871.]

*Aciphylla montana*, Armstrong. n. s.

SMALL, 8–10 inches high, smooth and shining. Radical leaves numerous, spreading, 4–5 inches long, pinnate. Leaflets jointed, 2–3 inches long,  $\frac{1}{5}$ – $\frac{1}{8}$  broad, linear or sword-shaped, pungent, striate, midrib rather obscure; sheath 1–1½ inches long,  $\frac{1}{3}$ – $\frac{1}{2}$  inch broad, with one small subulate leaflet on top of each side. Flowering stem about 8 inches high, as thick as a goose quill, deeply grooved, shining, with one leaf about halfway up; umbels few, fascicled, in a contracted panicle 2 inches long; peduncles very short; bracts numerous, 1–2½ inches long, with one to three spreading leaflets, and two small subulate ones at the top of the sheath. Fruit small, about  $\frac{1}{6}$  of an inch long, closely packed on very short pedicels; carpels with five rather narrow wings. Flowers not seen.

Hab.—On rocky ledges 4,000 feet altitude, Rangitata District, 1869; Collected by *W. Gray* and *John F. Armstrong*.

A curious little species approaching some states of *A. Monroi*, Hook. f., but sufficiently distinct in the fascicled umbels and very large bracts.

*Senecio Pottsii*, Armstrong. n. s.

A small suffruticose, decumbent, very slender species; branches ascending 3–6 inches long, flexuose, grooved, covered with white loose cottony tomentum. Leaves petioled, alternate, ovate or spatulate,  $\frac{1}{2}$ –1 inch long, crenate, glabrous above or nearly so; covered below with appressed cottony tomentum. The veins almost parallel with the midrib; head solitary, on slender bracteate peduncles, turbinate  $\frac{1}{3}$  inch long; involucre scales 15–20, linear spreading, obtuse, cottony.

Hab.—Mount Jollie, Rangitata District, altitude 4,500 feet, *W. Gray* and *John F. Armstrong*.

My specimens are very imperfect, but the species seems very distinct from any other New Zealand one, differing chiefly in the suffruticose habit

and solitary heads. I have named this distinct and curious species in compliment to Mr. T. H. Potts, of Governor Bay, who has paid much attention to the cultivation of New Zealand plants.

*Trichomanes Armstrongii*, Baker.

(*Hymenophyllum Armstrongii*, Hook. f.)

A very small species, forming dense dark green coloured masses beneath water-falls; rhizome creeping, very slender; fronds about  $\frac{1}{2}$  inch long, usually pinnate, but frequently flabellate; pinnules few, 2-4 lines wide, with no veins but the midrib, and a peculiar purple ciliated margin, which distinguishes the species from any other New Zealand form; sori 1-2 or 4 to a frond at the tips of the pinnules, obconic and ciliated.

Hab.—Waterfalls near the sources of the Waimakiriri, altitude 3,800 feet, Dr. Haast and J. B. Armstrong, 1867.

*Veronica anomala*, Armstrong. n. s.

A slender, erect, quite glabrous shrub, 2-3 feet high, with long weak purplish branches. Leaves patent, shortly petioled, glabrous,  $\frac{1}{2}$ -1 inch long,  $\frac{1}{4}$  inch broad, coriaceous, linear-oblong, concave, entire, polished on the upper surface; midrib obscure. Flowers crowded together at the points of the branches; sessile in the axils of the uppermost leaves; sepals  $\frac{1}{6}$  inch long, linear-oblong, acute; corolla white, tube  $\frac{1}{4}$  inch long; limb  $\frac{1}{4}$ - $\frac{1}{2}$  inch broad; lobes 3 nearly equal, or 2 unequal, with the longer one forked at the tip; capsule not seen. Flowers in winter.

A curious plant, differing from all other Veronicas in the number of corolla lobes. In foliage it much resembles *V. vernicosa*, and in the corolla has some distant resemblance to *V. Colensoi*. It may prove to be an hybrid between these two species.

Hab.—Head waters of the River Rakaia.

*Gentiana Novæ Zelandiæ*, Armstrong. n. s.

Root slender, annual; stems numerous from the root, ascending, about 6 inches high, very slender, rather leafy, many-flowered, black when dry. Leaves linear-spathulate, linear-oblong, or spathulate-oblong,  $\frac{1}{4}$  to  $\frac{1}{2}$  inch long. Flowers about  $\frac{1}{2}$  inch long, pale yellow, on slender pedicels; calyx rather deeply divided; lobes shorter than the corolla, linear-acute; corolla-lobes, ovate-oblong, acute.

Hab.—Sources of Rangitata River, Armstrong.