

Note on "The Californian Thistle".

By W. Archer. N.S.S.

The genus Carduus, as established by Linnaeus, consists of what are called "True Thistles", with <sup>a</sup> hairy pappus or calyx, and "Plume Thistles", with a feathery pappus or calyx.

Benth, in his "Hand-book of the British Flora", follows Linnaeus; but some botanists class the "True Thistles" under the genus "Carduus", and the "Plume Thistles" under the genus Cnicus or Cirsium.

The "Milk Thistle" (Carduus marianus) represents the "True Thistles" in Gasparia, and the Carduus lanceolatus, or "Spear Thistle" (Cnicus lanceolatus of "The British Flora", by Hooker and Arnott), the ~~Spear~~ <sup>Plume</sup> Thistles.

The "Shear Thistle" 2

of England is what is called in  
Lapmania "The Scotch Thistle",  
<sup>but it</sup>~~which~~ is not by any means  
peculiar to Scotland. (The Scotch  
heraldic thistle is the Onopordion  
acanthium, which is a native  
of central Europe and of Asia,  
but certainly not a native of  
Scotland, according to Bentham)

The "Shear Thistle" (Carduus  
<sup>or lonicus</sup>  
leucocollatus) has a biennial  
root-stock, which sends up,  
for two years (after which it  
dies), annual stems, winged  
and prickly, with broadish,  
pinnatifid, prickly-lobed  
leaves, and large, egg-shaped  
flower-heads, enveloped in  
involucres <sup>spreading</sup> bracts (flower-leaves)  
with stiff largish prickles.

The "Creeping Thistle" (Carduus

or Cnicus arvensis), has a perennial and creeping root-stock, ~~with~~ which sends up, perpetually annual stems, with rather narrow, pinnatifid, very prickly-lobed leaves, and <sup>the</sup> ~~the~~ <sup>dicocious</sup> flower-heads, ~~dicocious~~ (i.e. the males on one plant and the females on another), - the male flower-heads nearly globular, and the female flower-heads egg-shaped, enveloped in involueral appressed bracts, with small prickles.

Both the Spear Thistle and the Creeping Thistle are found <sup>abundantly</sup> in Europe and Asia. The Spear Thistle is, of course) the more easily destroyed of the two. The Creeping Thistle seems to be quite ineradicable. -

The Breeding Thistle is mentioned by Professor Johnston as being called in the United States of America the "Canadian Thistle", - probably because it travelled thither from Canada, and so, I suppose, the same Thistle is called here the ~~best~~ "Californian Thistle" because it has come to us from California. It is nevertheless the "Breeding Thistle" of Great Britain, - and it never quits a country into which it is introduced.

— 1870 —  
Destruction of  
Rabbits in their  
burrows —  
Mr. W. Archer

Notes of an experiment with  
and <sup>and</sup> other methods,  
the fumes of sulphur, for the  
destruction of rabbits in their burrows.

By W. Archer. F.S.S.

The immense increase in  
the number of common rabbits,  
in the midland districts of  
Tasmania, renders necessary  
the adoption of the most  
efficacious means possible for  
their destruction. Already the  
quantity of stock which many  
runs were able to carry is reduced  
more than half; and still  
the rabbits are increasing, and  
advancing their burrows into  
runs hitherto untouched by  
them. In  
In Victoria they have <sup>been</sup> very

destructive in their operations, several squatters having been obliged to expend large sums <sup>reducing or</sup> in getting rid of them.

The means adopted are, for the most part, three; namely, shooting, digging-out, and blocking-in. I have heard that sulphur has been tried on a small scale; ~~but the~~ ~~statements of its~~ in the form of rag-matches, or of squibs made up with powder; but the statements of the results have been rather apocryphal, and have not induced more than one or two persons, I hear, to try that ~~the~~ course.

Shooting is a very <sup>excellent</sup> ~~successful~~ plan, and costs about  $\frac{1}{2}$ d. a rabbit. When combined with the operations of a good ferret, <sup>with netting.</sup> and digging, it is eminently successful, - and the cost would be probably 1d. each. A man and a boy, with a gun, a ferret, nets and spades, would kill fully twice as many as a shooter would, if not more. This plan may fairly be recommended as the best yet tried.

Blocking-in, & smothering in the burrows, has been adopted on a very large scale in Victoria, and is being tried in the midland



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districts. The movements of the men employed, and the noise made by them, have the effect of driving the rabbits onwards to other ground; but it is exceedingly doubtful whether this plan really destroys many of them, - at least in ~~loamy~~ <sup>loamy</sup> ground.

It occurred to me that the fumes of sulphur, if forced with a pair of bellows into the burrows so as to fill them thoroughly, would be a very successful, as it would be an exceedingly economical mode of destruction.

Accordingly I had an iron <sup>5-gallon</sup> ~~can~~ prepared, with holes for the admission of air <sup>near</sup> at the

bottom, and a larger hole filled with a projecting rim ~~at the top~~ in the movable cover or lid, so as to receive a pair of ordinary kitchen bellows - the rim being fixed into the hole in the lower part of the bellows - placed on the lid of the can. A piece of india-rubber pipe was then fastened on the nozzle of the bellows and also on a piece of  <sup>$\frac{1}{2}$  inch</sup> lead pipe, joining their ends together. The apparatus was then ready for use.

operations were commenced by lifting off the lid of the can, and lighting  $\frac{1}{2}$  lb of flour of sulphur (such as is used

x placing the lead pipe about  
eighteen inches in the <sup>entrance</sup> mouth  
of a burrow, and carefully  
stopping the ingress of air; then  
by x

for sheep-dipping) which had been placed on the bottom of the can; then the lid was replaced, the bellows secured by cords at the nozzle and lower handle to the top of the can, and the bellows steadily worked.

The result was that in a few minutes the sulphurous fumes began to issue from other mouths of holes (bolt-holes) connected with that into which the lead pipe was inserted, often at a distance of 15 to 20 feet from the apparatus. All these holes were carefully stopped with sand; and the blowing of the sulphurous

fumes into the burrow was continued <sup>for about 20 minutes,</sup> until the whole of the sulphur was consumed.

After allowing a quarter of an hour to elapse after the consumption of the sulphur the burrow was opened, in full confidence that suffocated rabbits would be found in it. But, to my chagrin, I discovered that I had not considered the <sup>rapid</sup> condensation of the sulphurous vapour which would be caused by the cold earth of the burrow. When the burrow was opened there was scarcely a trace of the fumes, — and live rabbits were found within!

It is possible, though not

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(probable, I think, — that a more powerful and perfect apparatus might have been successful).

I chronicled this experiment, for the Royal Society, both on account of the importance of the subject, and ~~so~~ <sup>that it may</sup> serve as a guide or warning to others who may be induced to try further experiments with the fumes of sulphur, or with any other vapour, for the destruction of rabbits in their burrows.

Notes of an excursion to  
Cummings's Head and the Falls  
of the Meander, on the Western  
Mountains, Tasmania.

By W. Archer F.L.S.

Accompanied by a friend  
and two servants I started on  
the morning of May 10th 1848  
for an excursion to Cummings's  
Head, a spur of the Western  
Mountains near Beshunt,  
with the intention of visiting  
the Falls of the Meander  
River, which I had seen  
before in the summer, when  
a mere <sup>silver</sup> thread of water was  
all of them that was visible.  
We hoped at this season to

find a large stream flowing over the dark basaltic rocks of the mountain side. Our provisions consisted of 4 lb. of cold meat, 12 lb. of bread, 3 lb. of rice, 5 lb. of sugar, and  $\frac{3}{4}$  lb. of tea; and we took with us an opossum-skin rug, a pair of blankets, and a light tent weighing  $3\frac{3}{4}$  lb., - besides the usual accompaniments of matches, knives, tomahawk, &c.

At the foot of the mountain <sup>first</sup> a gum-tree forest, with which we passed through a thick underwood of "native hop" or "bitterleaf", (Daviesia latifolia), mixed with the "native indigo-plant".



Indigófera tinctoria), the "clover  
tree" (Goodia lobifolia), red  
and white Epacris (Epacris  
impressa), "prickly beauty"  
(Pultenaea juniperina), and the  
common "fern" (Pteris aquilina),  
and other less conspicuous  
plants, all destitute <sup>of flowers</sup> at this  
season; and then entered  
a dense thicket, composed of  
the most part of "musk-wood"  
(Eurybia argophylla), "dog-wood"  
(Pomadouris apetala), "daisy-tree"  
(Eurybia lirata), "stink-wood"  
"fern-trees" (Dicksonia antarctica),  
(Zieria lanceolata), & the common  
"fern" 6 and 7 feet high, - growing  
beneath gigantic trees of  
"stringy-bark" (Eucalyptus robusta),  
"white gum" (Eucalyptus viminalis),  
"blackwood" (Acacia melanoxylon),

and

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"silver wattle" (Acacia dealbata), -  
and rendered almost impenetrable  
by the huge trunks and branches  
of fallen gum-trees, and a  
net-work of nettles (Urtica  
incisa), with the rope-stemmed  
blemiatis (blemiatis coriacea),  
and Syousia (Syousia straminea),  
here and there, stinging our  
hands and faces, and tripping  
us up as we scrambled and  
cut our way through the  
entangled mass of vegetation.  
To the right of our track were  
some many-crowned fern-trees  
(Dicksonia antarctica), - one  
with about thirty crowns - ~~one~~  
~~of the~~ wonder of the vegetable  
world, - and somewhat further  
on we came to a white gum-tree  
of enormous height, towering

far above the surrounding forest, and rising to an altitude of some 300 feet, with a trunk about 40 feet in circumference at a height of 4 feet from the ground, tapering very gradually up to the first branches, fully 150 feet from the base.

At the height of 500 feet above the plain - about 1400 feet above the level of the sea - plants which grow to a height of 30 feet on the low ground, are dwarfed down to shrubs. "Native box" (Bursaria spinosa) <sup>for example,</sup> is here a thorny little shrub a foot to 18 inches high, and the small-leaved Coprosma (Coprosma)

microphylla), is reduced from 12 feet to 2 feet in height.

At the ~~the~~ elevation of 2000 feet above the sea, the character of the vegetation <sup>is</sup> altered considerably, and the gum-trees lose the straightness and slenderness of their branches, and their now spreading tops approach the ground more closely.

The "Waratah" (*Telopea truncata*), <sup>3 feet high,</sup> and wax-cluster plant" (*Gaultheria hispida*) <sup>2 feet high,</sup> grow here

among the rocks; and a little higher up the pretty little *Tetracarpaea* (*T. Tasmaniae*)

makes its appearance. - <sup>detached from the crags above,</sup> Huge masses of rock ~~now~~ are now met with, and the shrubs and trees have a somewhat battered and straggling form, until the summit

is reached, when they are found to assume a dwarfed and more compact appearance.

On reaching the summit we rested for awhile from our labours, and ate our dinner, - water being found in a little hole which I had previously dug beneath a dripping rock. Before starting again my friend ~~I~~ and I clambered to the very apex of Cummings's Head, - where there is a little plateau of a few yards square. From this spot <sup>situated at the brink of a terrific precipice,</sup> there is a wondrous view of the country lying to the west, north, and east, including the towns of Delaware and Westbury in the middle distance, and the northern line of coast as far as the eye

could reach to the eastward,  
and for a considerable distance  
to the westward, until shut  
out by <sup>mt Rowland and other</sup> intervening mountains.  
Wishing to get the bearings of  
some of the principal mountain  
peaks, and especially of Quamby  
Bluff, rising in solitary grandeur  
on the east, I placed my compass  
on <sup>one of</sup> the rocks of the plateau, -  
when, to my great surprise,  
the bearing indicated was due  
west instead of due east;  
and it turned out that the  
local attraction was so great  
that the points of the compass  
were all reversed as long as  
the compass remained in  
direct contact with the rock.  
On removing it from the

rock, and raising it to the height of three feet ~~from the rock~~ above it, I found the bearings restored to their true position. This fact shows how careful explorers should be in availing themselves of commanding ~~positions~~ <sup>points</sup> for the purpose of fixing the positions of their camps of ~~base~~ rest or observation, - or the routes to be taken in order to reach other localities.

We now descended <sup>about 400 feet,</sup> to a small ~~about 400 feet~~ plain lying between the heads or sources of two rivulets, one ~~which~~ flowing to the east and entering the Meander just above Archer's Sugarloaf, and the other flowing to the north-west

into Dale Brook near Gibson's Sugar-loaf.

Upon this plain are found the large "mountain ranunculus" (Ranunculus Gunnianus), with its bright, varnished yellow flowers, purple underneath, and the curious little "palka" (C. bitriloca)  
 much-divided leaves, ~~found~~ also on the Victorian Alps by Dr Mueller, - a little yellow-flowered "Stackhousia" (S. pulvinaris), - occurring also on the Gipps Land mountains, a prostrate little Pultenaea (P. fascicularis), - gathered also on the Cobberas Mts in Victoria, - the singular little Siparophyllum Gunnii, belonging to the Gentian tribe, - found nowhere else in the world, - small large-flowered plants of the "mountain gentian" (Gentiana montana), - found also on the mountains of Victoria,



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New South Wales, and South  
Australia, - the little Mitrasacme  
Archeri, - found nowhere else, -  
Euphrasia alpina, striata, and  
cuspidata, - the first found  
on Mt Kosciusko in New South Wales,  
and on the Cobberas Mts in Victoria,  
a most singular little plant -  
and the last ~~nowhere~~ but on the  
Western Mts, Mt Sorell, and Mt  
Sapeyrouse in Tasmania; besides  
several other plants peculiar to  
mountainous localities, and  
some that are found also on  
the plains, - such as the common  
"Sea-tree" (Leptospermum lanigerum)  
which grows <sup>here</sup> in thickets to the  
height of 12 to 15 feet.

We erected our <sup>light</sup> tent - made of  
unbleached linen, and enclosing  
a space of 6 feet by 6½ - and  
leaving the servants to procure

a large supply of dry <sup>fire-</sup>wood for consumption during the long and cold night, we made our way down <sup>the valley of</sup> the eastern rivulet. After descending about 200 feet to a spot where the rocky sides of the valley rise steeply from each bank of the stream, we came to fine specimens of different species of the largest ~~of~~ kind of "mountain pine" - as I generally call it, - Abrotaxis cupressoides, selaginoides and laxifolia, - and also the (celery-topped pine) (Phyllocladus rhomboidalis), which occurs also on the Meander near Cheshunt. Here were also many beautiful and rare mosses, clothing or fringing the rocky margins of the brook; here ~~occurs~~ I found a pretty white

violet, - found also in New Zealand,  
(*Viola* *Bunninghamii*); here, straggling  
among the rocks, is *Decaspora*  
*disticha*, with its little clusters  
of purplish berries. Having gazed  
our fill at the rare and noble  
trees and curious alpine plants  
around us, and made a  
collection of botanical specimens,  
we returned to our tent.

One side of the tent being left  
open towards the large fire,  
we passed a comfortable night,  
sleeping on a bed of tea-tree  
<sup>branchlets,</sup> with our feet towards the  
blaze, and only waking  
when the diminished heat  
warned some one of us to  
put on more wood. The  
coldest part of the night  
was - to use the words of a

well-known song - "2 o'clock in the morning" - owing, partly, I suppose to the fire having died down <sup>at</sup> about that hour.

We started very early next morning in a direction nearly due south, in order to skirt the rocky gully ~~near~~ <sup>hidden</sup> at the source of the Dale Brook, and then crossed a plain in a south-easterly direction. On our way we passed through a large quantity of the mountain Bellendina (B. montana), a handsome, glaucous-leaved ~~plant~~ <sup>small</sup> shrub, with <sup>pointed</sup> spikes of cream-coloured flowers, followed by reddish-brown buds, - an alpine form of that very graceful branched fern, Gleichenia adscendens.

the pretty and rare Eurythia  
abcordata, only found on the  
 Tasmanian mountains, with  
 its wedge-shaped leaves, toothed  
 at the apex, and ~~its~~ daisy-like  
 flowers, - the bright "green cushions"  
<sup>besprinkled</sup> with the disproportionately large  
 berries of the tiny Perrettia  
Tasmanica, a plant of the Heath  
 tribe, found only <sup>on the mountains</sup> of Tasmania,  
~~on the Mount~~ and the beautiful  
 little Gaultheria antipoda, not  
 found anywhere else in Australia  
 but occurring on lofty mountains  
 of the Middle Island, New Zealand, -  
 the cider-tree (Eucalyptus gunnii),  
 and many other rare and  
 interesting plants. - On the  
 plain just mentioned we  
 found a small group of

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the cypress-like  
"Mountain Pine" (Abrotaxis  
cupressoides), with a ragged  
and broken-down appearance.  
Shortly after passing them we  
began to ascend the western  
end of the Ironstone Mt range,  
and came upon a kind of  
saddle between the trigonometrical  
station and "West Bastion  
Bluffs. Here we found that  
curious <sup>little</sup> coniferous plant,  
Microdebrys tetragona, lying  
<sup>here and there,</sup>  
perfectly flat on the ~~surface~~  
of the greenstone rocks whose  
surfaces were nearly level with  
the ground; - and <sup>then</sup> keeping too  
much to the left, we passed  
through or over an underwood  
of a dwarf pine about 4 feet  
high - which attains to the

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height of 10 feet in very sheltered  
situations - called *Diselma Archeri*,  
with <sup>many</sup> straggling branches close  
to the ground, so that if one  
put one's foot ~~between them~~  
instead of on them, one's progress  
became slow and exceedingly  
laborious. My friend, who did  
not succeed well in making  
his way through them, on  
coming up to me, <sup>botanising wife</sup> waiting for  
him, requested me particularly  
to tell him the name of the  
plant, "in order", as he said,  
"that he might hate it all his  
life".

Looking from the top of West  
Bastion Bluff we saw Lake  
Suey Song - a somewhat  
appropriate name - extending

in a lengthened, narrow sheet  
 of water to the westward, on  
 the plain below. Far away  
 to the south-west Frenchman's  
 Cap stood up against the horizon,  
 and to the south-west lay the  
 Lakes Augusta and Ada, and  
 the other waters of the Nineteen  
 Lagoons. Turning to the left  
 after leaving the saddle, and  
 skirting the upper part of  
 Ironstone Mt., we proceeded  
 nearly in the direction of  
 the Split Rock trigonometrical  
 station, ~~land soon came to~~  
 a small lake, which  
 proved to be Lake Meander  
 the <sup>chief</sup> source of the Meander  
 River.



Leaving Lake Meander, with its bright and pellucid water, and scrambling down the bed of a rivulet running towards the east, we soon found ourselves at the brink of a vast precipice, over the face of which the water of the rivulet was falling in a long silvery <sup>sheet</sup> ~~cord~~, frayed at the edges into foam and liquid travellings, and plunging into a <sup>nearly circular</sup> basin about 100 feet in diameter. Before us lay, in grand ruggedness and confusion of <sup>huge</sup> crags and great bare patches covered with rocks & stones, interspersed with lines and clumps of small trees and straggling shrubs fighting a hard

babble of life for bare existence,  
 the immense gorge at the  
 bottom of which the rapid  
 swirling Meander rushes  
 along its sounding course  
 to the plains below. — This  
 gorge extends beyond "the  
 Falls" for about a quarter of  
 a mile, and terminates in  
 where a stream runs under rocks  
 a short curve, ~~not far~~ from  
 a pretty little, shallow lake,  
<sup>not far off,</sup> which I named "Selle  
 Pediluvium", for a reason  
 which can be as well imagined  
 as described. From the  
 cliff, to the westward of  
 the end of the gorge, the Falls  
 looked like a tiny thread  
 of silver, suspended from

the brink of the precipice above, and we could not hear the noise they produced, after our rough scramble down the rocks and through the shrubs at the end of the gorge, until we were within about fifty yards from ~~the~~ the pool into which the water tumbled after its gigantic leap.

On viewing the Falls from the front they had the appearance of an unbroken descending ~~mass~~ line; but, on moving to the right or left, it became evident, at once, that they consisted of two parts, separated by the basin which we had

seen from the summit of the rocks. I measured the lower fall and found it 150 feet; and estimated the height of the upper fall at 200 feet, making 350 feet in all. When standing close to the foot of the lower fall the effect was very grand, as the broken sheet of bright water, splashing, foaming, hissing, rent into a thousand fragments, then united, fell in a continuous torrent at our feet, just, in a word, as "the water comes down at Sodora".

(To be concluded.)

Continuation of Notes of our  
Excursion &c.  
By W. Archer F. S. S.

One of my companions mounted to the summit of the lower fall, and found <sup>here</sup> a basin, somewhat of a circular outline, and about 100 feet across. From thence he let fall a stone, attached to a ball of twine, until it reached the foot of the lower fall. On measuring the length of this line afterwards I found it to be 150 feet. Judging by this ascertained height, the upper fall must have been fully 200 feet high.

After refreshing ourselves, and dividing our provisions into equal shares, in readiness for

for such emergencies as being lost, or ~~of~~ being the victim of hungry companions, we started on our way homeward.

A little way above the meander on the left bank, to which we had crossed immediately after leaving "The Falls", a fine specimen of the mountain pine called Abrotaxis selaginoides met our view. It was covered with its small cones just ripe, and afforded a rich harvest to one of my companions, who was on the look-out for such treasures. A little higher up the pretty Pinulea sericea occurs, with a small shrub, with very pale green leaves, smooth

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above and covered <sup>with</sup> beneath <sup>heaping (in December)</sup> ~~plough~~,  
shining, silky hairs, and rather  
large heads of flowers. Passing  
through a grove of small gum-trees,  
(? Eucalyptus coccifera), and leaving  
the eastern bluffs of Groustone  
Mountain on the left, we had to  
scramble across a plateau of  
great rocks, like those near the  
summit of Mt Wellington, with  
deep caverns beneath them  
into which there was much  
risk of falling, and then found  
ourselves on a plain sloping  
gently towards the river on  
our right, and dotted with  
small gum-trees and various  
shrubs. Here we pitched our  
tent near a bright little rill,

many of which flowed across the plain.

Next morning, pursuing our way northwards we found a large patch of a kind of native burrent, - as it is absurdly called, merely on account of the colour of its fruit, - thickly covered with its shining berries. <sup>It occurs also on the Bayo-Bayo Mts of Victoria.</sup> On the plateau of the mountain above us may be found another and much smaller species, (b. pumila), which is found on the Bayo-Bayo and Babbaras Mts of Victoria. <sup>Two</sup> much larger species, b. hirtella with much larger berries and leaves, and b. Billardieri with berries and leaves smaller, - grow on the plains lower ground, the



latter being very common in some localities. The berries of all the species named have a similar and by no means pleasant flavour.

[By the side of a murmuring rivulet which we now crossed were growing some beautiful plants of Athrotaxis laxifolia, with its graceful pyramidal form, and delicate branches covered with bright yellowish green leaves, only long and spreading enough to give <sup>them</sup> a somewhat serrated appearance as they waved in the breeze.

The Athrotaxis previously mentioned (A. selaginoides) with longer & more spreading, bristly leaves is more prized in the island than this species; but I think

This is the more elegant of the two. The third species, A. cypressoides, is a much duller tree, with smaller and blunter leaves closely appressed to the branchlets. All the species are, I believe, peculiar to Tasmania.

Among the many shrubs through which we now walked and, sometimes, struggled, may be mentioned Persoonia Gunnii, with its olive-shaped leaves and black sloe-like berries fruit, — Bites revoluta, Deasporae Heuvelia, Tetracarpaea Tasmaniae, Eurybia pinifolia, with its pungent leaves, Ozothamnus Hookeri, and Baebhia Gunniana. Above us, at a height of about 400 feet, was

The summit of the mountain, to which we clambered by a sinuous ~~to~~ course over the loose stones, taking care not to move until we were all proceeding in the same direction, in order to avoid rolling down the stones on each other. Arrived at the tolerably level ground above, covered here and there with flat rocks, or with great stones among the smaller shrubs and grass, we could see Bunning's Head to the northward, while the Ironstone Range, with its trigonometrical station and its "Bestion Bluffs", lay to the south-west, behind our left shoulder.

"The Cider-tree" (*Eucalyptus Gunnii*)

was plentiful on the stony rises, and various alpine shrubs grew beneath its shade, or on the open ground. Sprengelia montana and Cystanthe Sprengelioides, both of the Epacris Tribe, the latter closely resembling Sprengelia incarnata, but with the peculiar calytrate flowers of <sup>the genus</sup> Cystanthe, are found here. Here are the "green cushions", so well known to mountain-excursionists, at first sight appearing to be composed of one plant only, but proving, on examination, to combine four or five; for instance, Scleroleima Korsteroides and Pterygopappus Lawrencei, both plants of the Compositae Tribe, - Coprosma humila, ~~repens~~, of the Madder Tribe, - Pernettya Gasmanica, of the

Heath Tribe, - and Oreobolus  
Pumilio, a cyperaceous plant, -  
 are all found densely packed  
 together in a green, rounded  
 mass, dotted here and there with  
 the drupes of the Coprosma, or  
 the berries of the Perrettia, or  
 powdered lightly with the tiny  
 flowers of the various plants  
 composing it. - The little Rubus  
<sup>of the Rose Tribe, coloured,</sup>  
gemmaeus, with cream-~~white~~  
 bramble-like flowers, followed  
 by blackberry-like fruit of good  
 flavour, occurs in <sup>dry</sup> sandy spots;  
 the common burr, (Acaena  
Sanguisorba), <sup>of the same tribe,</sup> exhibits its patches  
 of pretty green, wrinkled leaves,  
 smaller <sup>and more wrinkled</sup> than those of the variety  
 on the low ground; Eurybia  
persoonioides and E. alpina  
 of the Composite or Daisy-flowered

Tribe, thrown together into one species by Bentham, but differing in some important particulars, are seen, often close together, with their ~~dark~~ <sup>green</sup> ~~glossy~~ leaves, dark-green and glossy above, and covered with densely-packed hairs beneath, the flower-heads (daisy-like flowers, so called) of the former being several together on long slender stalks, while the latter bears single, larger heads of flowers, on short, stout stalks; Boronia rhomboides and B. pilosa, with their pretty, pinkish four-petalled flowers, and leaves smelling like Rue; the little Mountain found also in Australia, New Zealand, Europe, Africa etc. Sundew (Prosera Areture) with its largish white flower, and the <sup>tiny</sup> Claytonia australasica, of found also in New Zealand and America, the Ursulae Tribe, - Herberta

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a very small plant  
depressa, of the Madden Tribe,  
found in Victoria on the Baso Baso  
Mts, and on the banks of the Snowy  
River, - Siparophyllum Gunnii,  
a little plant of the Gentian Tribe,  
which occurs in Europe, &c., - Ourisia  
integrifolia, of the Konglove Tribe,  
a small plant, found likewise in  
New Zealand, - the little Bladder-wort  
(Utricularia lateriflora), - and some  
other small plants are to be found  
in wet places; Cryptandra alpina,  
of the Buckthorn Tribe, - the curious  
little Stackhousia pulvinata, with  
its stamens, abnormally, of nearly  
equal height, - the handsome  
great <sup>mountain</sup> Daisy (Helmisia longifolia),  
the large Mountain Bachelor's Button  
(Graspedia monoccephala), a variety  
of G. Richea), found in south-eastern  
Australia, - Graspedia alpina,  
found on Mt Butler in Victoria, -

Raoulia catipes, of the Daisy-flowered Tribe, in whitish tufts, the Mountain Gnaphalium (G. collinum), variety monocephalum), - the minute Mitrasacme Archeri, - the singular little Pimelea pygmaea, the remarkable little Ribgrass (Plantago Archeri), with its leaves closely appressed to the ground, and hairy on both surfaces, and its minute flowers, - all these with numerous other plants, occur here and there, over the area between Bunning's Head and Ironstone Mountain. There is also the extraordinary little eye-bright, (Euphrasia cuspidata) together with two other herbs of the same genus (E. alpina and E. striata) to be found on the little plain below <sup>the summit of</sup> Bunning's Head to the southward. - The



noticed also, <sup>between</sup> and among, ~~on~~ the rocky rises  
farther back, plants of Diselma  
Archeri, and Microcalypt tetragona,  
together with Podocarpus alpina,  
all belonging to the Coniferous  
or Pine Tribe.

We returned to the summit  
of Cumming's Head, passing through  
a wood of dwarfed Beches,  
called Myrtle Trees, (Myrica  
Cunninghamii), a little after  
noon; and, having eaten our  
dinner and refreshed ourselves  
with bush-tea, and enjoyed  
again the marvellous view over  
the low country lying to the  
westward, northward and  
eastward, we descended the  
mountain, and thus terminated  
a pleasant and most interesting  
excursion. A