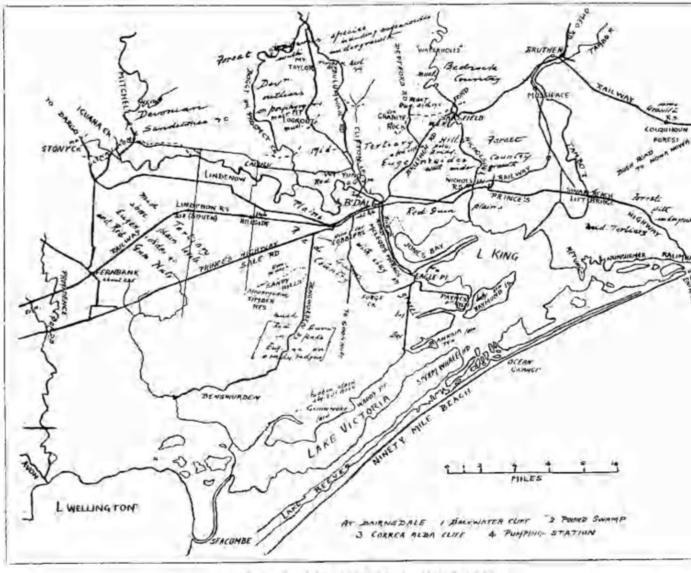
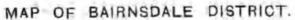
PLATE VIII.





HART, Bolanical Notes about Bairusdale.

Oct.]

BOTANICAL NOTES ABOUT BAIRNSDALE AND THE EASTERN LAKES.

BY T. S. HART, M.A., B.C.E.

(Read before the Field Naturalists' Club of Victoria, 11th June, 1923.)

To present the chief points of botanical interest in this district, and to avoid undue length, I propose to refer to the chief types of vegetation, and among individual species to those mainly which do not occur in the western parts of the State, to those not recorded in the "Key" as eastern, and to others about which there is some point of interest. Many of the far eastern Victorian plants do not reach as far west as this.

As a preliminary climatic note, the average rainfall is about 28 inches per annum at Bairnsdale (26 by another record), well distributed, but with the highest averages in September and January, according to the detailed information available over a part of the period of the records. The intervening months are sufficiently rainy to make the spring and early summer, by a small amount, the part of the year with highest rainfall. The lowest averages are in April and August, the dry April contrasting with Melbourne, indicating that the rains of that season do not readily penetrate so far to the east. A somewhat drier belt of country runs through Sale and Maffra, on the west. To the east the rainfall gradually increases, though there are relatively dry areas. In individual years the heaviest rain or dryness may occur in any month. In the native vegetation plants of dry situations must be able to stand summer droughts ; in the valleys there is more luxuriant growth, due to all-the-year-round adequacy of moisture, and here eastern types are more abundant.

It may be noticed that the average rainfall is about that of Kew, but the number of rainy days appreciably less.

THE RED GUM PLAINS.—These are grass land with trees and little shrubbery, the prevalent eucalypt being the Forest Red Gum, Eucalyptus terolicornis, with occasionally Swamp Gums, E. ovata, at wetter places, and subordinate Yellow Box, E. melliodora, and But-But, E. Bridgesiana, occasionally, and at places not typical the Gippsland Box, E. Bosistoana. The Erect Sheoke, Casuarina subcrosa, is plentiful, but about Bairnsdale C. stricta is absent from the general run of the plains, being found further to the south and in two places on the edge of the steep fall to the river above Bairnsdale. As it is common at Sale and Mafira, we may conclude that the slightly greater rainfall is restricting it to drier situations, whereas in some of the drier country C. subcrosa is seen to prefer the lower and moister position at the foot of a hill slope. Other trees are

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Black Wattle, Acacia mollissima, and Lightwood, Acacia implexa; occasionally, Banksia marginata.

For the smaller plants a good locality is west of the Sale road crossing. Among the orchids are Plerostylis falcata, Diuris punctata, Prasophyllum fuscum, Pterostylis curta, Eriochilus autumnalis, and others. Viola betonicifolia is sometimes very fine, and apparently paler in the wetter situations. The Sundews are Drosera peltata. I have not seen D. Whillakeri here. Bartlingia gracilis occurs at a paddock on the Sale road, and quite deserves its specific name.

The plains being nearly flat, and with a clay subsoil, the water lies about in places. In the borrow pits of the railway and in other places we may see the curious Philydrum lanuginosum, the sole Victorian representative of a very small family of plants. At first I considered the possibility of its having been introduced, but, as it occurs in many natural swamps, well away from the railway and over a wide area, the idea may be dismissed. It may attain a height of five feet in a natural swamp, with as many as 150 buds on a slightlybranched inflorescence, but it usually opens only one or two of its yellow flowers on a stem or branch at once, and loses in showiness. Damasonium australe also occurs in pools on the plains and river flats; but its relative, Alisma, belongs to the river backwaters. Goodenia paniculata likes the moist places, and in the pools of an intermittent creek is the Large Marshwort, Limnanthemum geminatum.

Close south-west of Bairusdale the plain is cut through by the steep-sided Cobbler's Gully. On the well-drained, sandy slopes are Manna Gums of the Brighton type, E. viminalis, and White Sallee, E. coriacea. Eagle Point Park, six miles down the river, may also be considered as a dissected edge of the plain. A bluff, rising steeply to go feet above the river, affords a fine view of the lake and more distant country. Behind is a hollow in which a small lagoon, used by stock, carries Azolla, Lemna, perhaps Wolffia, and Riccia. floating on its surface; among its fixed plants is a form of Ramonculus rivularis, probably variety inundatus. At another part, independent of this valley, is a salt marsh. The Swamp Paper-bark Tea-tree, Melaloucu ericifolia, on its margin carries Cassytha phaolasia, Long-spiked Dodder Laurel. The trees of the park are Red Gums, Manna Gum of the Brighton type, and a Box best placed as E. Bosistoawa, Bursaria is abundant in good specimens. It is called Myrtle locally (whence the names Myrtle Point and Myrtle Gully in other parts of the district). Hymenanthera and Kunzea pedancularis are other abundant shrubs. Clematis glycinoides is abundant; it is the common Clematis of the district. Ptorostylis concinna and Corysanthes

prainosa occur. The dryness of the surface soil of the hills is indicated by a succulent Claytonia and Stellaria pungens.

On the bluff are the furthest inland specimens of Coast Teatree, looking quite natural, but possibly introduced, as Tyers had a residence here. A Cassia, locally called "Glory Bush," is certainly a garden relic, and has contributed, no doubt, to many Baimsdale gardens. Senecio mikanioides is also an estape, and should be watched lest it become a nuisance.

THE LOWER HILLS .- These are easily seen north and northeast of Bairnsdale, on the Bulnmwaal and Bruthen roads. Being composed of the Tertiary sandstones and associated materials, they have a light, well-drained soil, affording a good root-run, and are well covered with trees and shrubbery, growth. White Stringybark, Eucalyptus with smaller sugenioides, is the prevalent species, with Red Box, E. polyanthemos, But-But, and some E. goniocalys. Manuka, Leptospermum scoparium, and Kunzea peduncularis are common. The latter, locally called Black Tea-tree, is acquiring a bad reputation for re-establishing itself on cleared lands and. becoming rather a pest. Well grown, it is said to form good Here are also the close-flowered Geebung, fishing rods. Personnia confertiflora, Bossiaa microphylla, Hibberlia linearis, H. Billardieri, and Phyllanthus thymoides. The curious little Pomax umbellata, with its coherent fruits, is a proved poison. plant, vielding hydrocyanic acid; but its small size makes it unimportant. The Pinkeyes, though coming within the comprehensive Tetratheca ericifolia, are not typical for that species. Clematis aristata occurs, but it is not very abundant. Among orchids, the most interesting are Chiloglollis diphylla and Corysanthes fimbriala, both autumn or winter flowering.

The Red or Saw-leaved Honeysuckle appears at places in the engenioides country, but it is especially characteristic of another and poorer variety of the light Tertiary soils. Southwest of Bairnsdale, in sandy ridges, there occur, with this Banksia, Manna Gums of the Brighton type and Howitt's "Eucalyptus amygdalina, variety c," to which we may give the name "Sandhill Peppermint," with an undergrowth of Ricinocarpus, Leplospermum myrsinoides, Acacia Oxycedrus with Leucopogon cricoides, locally called Heather, Correa speciosa, of the red-flowered variety, and Bossian heterophylla, an autumn-flowering, broom-like Pea with few leaves. At one part Caleya major and minor both occur, the latter flowering early in December. This is very poor country ; in some of it I have never seen stock. Kangaroo are sometimes seen. At the end towards Bairnsdale is a charcoal-burning plant using iron kilns. Yertchuk, E. considemana, occurs, in part, st. least, below the driest ground.

Oct.]

With this may be placed the country passed through on the railway west of Fernbank, on the rise from Providence Ponds. The Red Correa and the Heather can scarcely escape notice in the season; and in later spring the Crimson Bottlebrush, Callistemon lanceolatus, which is largely, but not all, in the flats. Such plants as Astrotricha ledifolia, Grevillea floribunda, are less easily recognized from the train. Besides these, Brachyloma daphnoides and Atacia Milchellii are here, though not given as cast in the "Key," Dampiera stricta occurs. Here also is Isopogon anemonifolius, for which, I believe, this is the only recorded Victorian locality. Droscra auriculata occurs, contrasting with the D. pellata of the plains, which are wetter in spring. Drosera sputhulata occurs at a drain, and Coral Fern has established itself at an ooze in a railway cutting.

A little west of Providence Ponds there is a patch of the Fairy Waxflower, Erlostemon obovalis, and about here also the Mealy Stringybark, E. cinerca, var. multifiora, is more common, and of the very blue form seen from Moe eastward. This is the tree which was formerly thought to be E. pulverulenta. Though this tree, as well as But-But, have separately been called E. Stuartiana, they were not regarded as the same tree. This is clear in Howitt's work, where "Stuartiana" is But-But; his later opinion that But-But is likely to be Baker's E. Bridgesiana is to be found in his appendix to Herman's report of the geology of Walhalla.

A noteworthy strip of country lies to the south-east of Lake Victoria. Some of its plants are those of the parts just mentioned. I have been able to visit it at Sperm Whale Head, opposite Paynesville, and behind Seacombe. At both these places, seventeen miles apart, there occurs *Thryptomene Migueliana*, only known here in Victoria; it may occur outside and between these limits. At Sperm Whale Head it forms the principal undergrowth over considerable areas, sometimies with abundant *Calythrix tetragona*. In this district also Astroloma *pinifolium* is abundant, and *Caleya minor* was seen. Behind Seacombe, on the sandy hills, was Acacia suaveolens.

The low country bordering Lake Victoria, near Goon Nure, would also probably prove interesting, but I have only visited it in autumn. Some Grass-trees, presumably Xanthorrhwa australis, occur. Banksia marginata in the tree form is seen to like lower ground than Banksia serrata.

Raymond Island, opposite Paynesville, is another low area. While much of it is poor Manna Gum country, some of the flats carry Swamp Mahogany, E. botryoides, as well as Red Gum. It is worth notice that at Orbost the botryoides is not restricted to the flats. Eastward from the Tambo River, on the road to Lakes' Entrance, the Narrow-leaved Geebung, *Persoonia linearis*, may be seen, and *Acacia discolor*, the Sunshine Wattle, flowering in early winter, becomes more common. The Dusky Coral Pea, *Kennedya rubicunda*, occurs in a valley.

On the shady cliffs about Kalimna we find Olearia viscosa, also the Blanket-tree, Bedfordia salicina, Musk, and others, as well as many of the characteristic valley plants of the district. Among the climbers we may mention Celastrus australis, with the conspicuous orange-yellow aril of the seeds showing in the open capsule about April; Marsdenia rostrata, the Stalked Doubah, with flowers of the peculiar asclepiad type and long fruit with hairy seeds; Smilax australis, sometimes sending out shoots in luxuriant growth leafless for some feet in length; and two other liliaceous climbers, Geitonoplesium cymosum, with deep purple herries, and Eustrephus latifolius, with yellow. Lillipillies, Eugenia Smithii, occur in a valley, and Pittosporum undulatum may be seen on the cliff.

These meet at the foot of the cliffs with marsh or coastal plants. The Boobialla, which is common, is, however, a valley as well as a coastal plant in this district.

I have not collected Acronychia lævis, but Mr. D. Paton tells me that it is at Kalimna.

Near Nungurner there is the eucalypt sometimes called E. Maidenii, sometimes E. St. Johnii. Howitt gives a locality near Kalimna for his "E. amygdalina, variety e_i " which Baker makes E. radiata. Elegant examples may be seen also near the road bridge over Boggy Creek, at Nowa Nowa.

Chiloglottis trapeziforme occurs near the foot of a cliff near Paynesville.

THE COASTAL HUMMOCKS.—Many of the common coastal species occur We may note also Scavola suancolens, the Scented Fan-flower, with fine purple berries in autumn; Senecio spathulatus, Spoon Senecio, often as isolated plants or near the outer edge of the vegetation; and Stackhousia spathulata. The broad-leaved form of the Mistletoe, Loranthus celastroides, occurs on Banksia integrifolia and on Sea Box, Gynepogon (Alyxia). This is the original celastroides, the common variety being the eucalyptifolius form included in this species.

The berries on several of the plants are a feature of the coastal scrub in autumn; they indicate birds as seed distributors. On the other hand, *Cakile maritima*, growing at the line of rubbish on the inner shore, suggests water-carried seeds. The fruits will float. Among other plants, *Tetragonia expansa*, New Zealand Spinach, occurs on the inner side of the Hummocks and at many suitable places about the Lakes.

WET SITUATIONS-SALT MARSHES. - The wet situations vary

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in depth, duration, and quality of the water. Beginning with the salt marshes, the Swamp Paper-bark appears, from the Baron's statements, to be able to stand water about half as salt as sea water, but it is not clear for how long. Near Lakes Entrance it has died off considerably; this is commonly attributed to the permanent open entrance, which would, no doubt, increase the saltness and maintain it. Suæda, Salicornia, Juncus maritimus, Samolus repens, and others occur at the west end of the Lakes' Entrance township. I have even seen Mimulus ropens in flower temporarily under tidal waters; possibly some ground had slipped to a lower position. On Jones's Bay, at East Bairnsdale, Salicornia occupies the lowest ground ; slightly higher, but still very low, the Rounded Pigface, Mesembrianthemum australe, grows in such quantity that acres of a blaze of pink are seen from miles away in the flowering season. Selliera radicans, a small Triglochin, Cotula coronopi-There is a very small Cotula folia, and C. reptans occur. flowering on a single stem, with few leaves, but it may be merely precocious flowering of seedling coronopifalia.

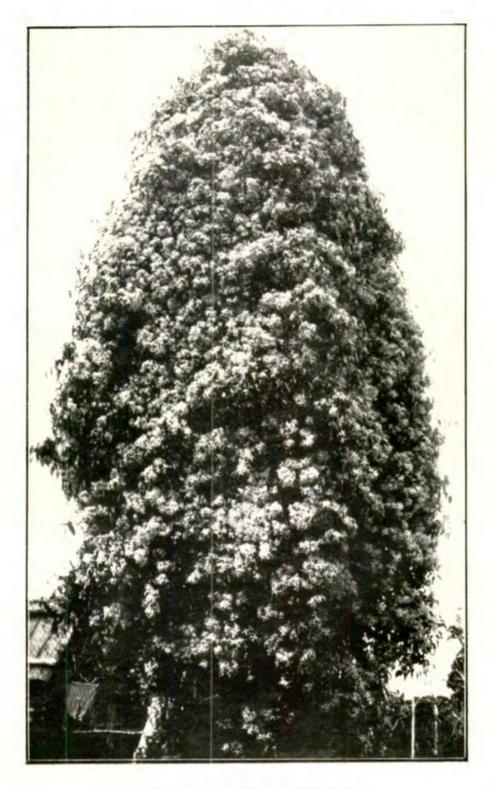
A small Plantago and the grass Distichlis spicala also occur in salty ground.

In a salt marsh near Waddy Point, Lake Victoria, Sebaa albidifiora occurs; it is not given as east in the Key, and the place has had communications with Footscray, but it is probably native. I do not know whether it occurs at Footscray.

A different type of wet place is found in M'Leod's Morass. just south of Bairnsdale township. Having only a small connection to the river, and only to the open lake through five miles of river, and receiving the drainage of some twentyfive square miles of country, it is not so salt as Jones's Bay, and is also liable to long-continued flooding. It has, however, considerable soluble salts, in part magnesian, which come out as an efflorescence on the soil in dry weather. Some of the springs at its edge are salty with common salt. The lower parts carry a dense growth of tall rushes, apparently Juncus pullidus, reaching, on the edge of the made channel, to eleven feet in height-often six. In these are roosting-places of innumerable Starlings. The mineral basis of the soil being sticky in the lower parts, it is quite possible that grazing when wet may have caused serious deterioration. Mesembrianthemum and Salicornia are absent, though many salt marsh plants occur. Hydrocotyle vulgaris and two other species of this genusprobably H. plerocarpa and H. tripartita-occur. Calystegia sepium, the larger Bindweed, grows over the rushes. Melaleuca occurs at the far edge, but not in the rush beds. Spurry, Spergula arvensis, is abundant, a plant of good repute for

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PLATE IX.



CLEMATIS GLYCINOIDES, De C., Growing over a dead tree at Lake Bunga.

Photo. BULMER, Bairnsdale.

sheep, but regarded as an indicator of bad soil condition in cultivation; it is not native.

At the sulphur springs in the Clifton Morass Phragmites communis, Scirpus lacustris, and others were found with freshly-deposited sulphur about them. On the Nicholson flats there are at places acid waters from decomposing marcasite. The drains are at places bare, but the Bulrush, Typha angustifolia, is one of the first plants to appear as the drains are followed down. The flats are, of course, good soil apart from these acid waters at spots.

South-west of Bairnsdale, and in parts of the sandy country, as near Feinbank, there are numerous swampy areas, carrying mainly Lepidosperma, sp.; Philydrum, already mentioned, grows in these.

THE LIMESTONE CLIFFS.—Opposite Bairisdale a limestone cliff faces south on the Backwater. It carries a dense growth of Rapanea (Myrsine), Boobialla, Bursaria, Pomaderris, Hymenanthera, &c., in which the difficulty of penetration is increased by occasional Boxthorn and Hawthorn. Creepers are also abundant — Clematis glycinoides, Marsdenia rostrata, Eustrephus, and Geitonplesium—and at the water's edge an occasional garden Honeysuckle. The nettles are tall, and hang among the bushes near face level. Pimelea axiftora is plentiful. On the nearly opposite, bare, sunny cliff at Pound Swamp, Pimelea glauca, a common Keilor Plains species, occurs, but no axiftora—now, at least. Marsdenia flavescens, the Yellow Doubah, occurs here, but I am not sure of its requirements as to habitat. A few plants of Celastrus survive. Plectranthus parviforus and Enchylæna tomentosa also occur.

A little higher up-stream a cliff on the north side, with a south-westerly aspect, carries an abundance of *Correa alba*, the White Correa. I have not noticed this coastal plant on the Hummocks at this coast, but a limestone cliff is a dry situation Boobialla and Coast Honeysuckle occur here, and the three are found also further up-stream. *Scavola microcarpa* grows on this cliff and on one at the Nicholson, also limestone. *Cynoglossum australe* occurs on the lower slopes freely. (The Seævola is just below the chief crags, but the soil is no doubt calcareous.)

THE MAIN VALLEYS.—The flats are mostly cleared, and largely used for maize and for grazing, but remnants of the valley vegetation may be seen. The first Kanookas, Tristania laurina, occur on the Mitchell near the pumping station, at the west end of the township; further up they are more common. Callistemon paludosus occurs, and pink and cream flowers may be seen on the same plant. Examination showed on one such that the flowers opened pink and faded. Prospect Creek comes in from the north a few miles up; it is commonly called "Boggy Creek," and care must be taken to distinguish Boggy Creek at Nowa Nowa. A mile up this creek the valley carries Kanookas, Lomatia longifolia, Bæckea virgata, a green-flowered Correa speciosa, and Prostanthera rotundifolia, Round-leaved Mint-bush. Cyclophorus (Polypodium) serpens and Hymenophyllum tunbridgense are abundant, and other ferns occur under the shade of a cliff and trees.

Higher up this valley is of more ordinary character, but Howittia trilocularis, Shrub Mallow, Callistemon lanceolatus, Crimson Bottlebrush, Acacia verniciftua, Varnish Wattle, and Lasiopetalum dasyphyllum, with its curious flowers, and handsome foliage, may be found.

At Glenaladale the Mitchell issues from its gorge and into the same flat come Iguana Creek and Stony or Moitun Creek. On the Mitchell above Glenaladale, Cutrajongs, Brachychiton populacus, may be seen. In the lowest gorge of Iguana Creek a clear stream runs over the Devonian sandstones. The lowest ground catries Lillipillies, Eugenia Smithii, Kanooka, Tristania, Pittosporum undulatum, Elæocarpus, &c. The Pittosporums are also seen perched on the chiffs.

On the other side of Bairnsdale we have, at Sarsfield, the Nicholson issuing from the hills through a steep-sided valley in bedrock. A path leads along the west bank from above the last house near the old ford used by M'Millan in 1840. We may notice Leptospermum allamatum, Slender Tea-tree, as a very graceful element in the valley vegetation. I. flavoscons is at the water's edge. Phebalium squamulosum, Scaly Phebalium, is abundant. A few plants of Eriostemon trachyphyllus occur: Pomaderris beluling occurs. Micranthoum hexandrum, Phyllanthus Gunnis, and Beyeria lasiocarpa, of the Euphorbia family. The Wonga Vine, Tecoma australis, is added to the other climbers. There are no Pittosporams ; the local resident using this name refers to Rapanea. Kanookas occur abundantly, and others already mentioned. A little higher up the valley Calythrix is abundant among rocks, and Pomaderris phylicifolia also appears.

On the river at Bairnsdale we are not above tidal influences, and the water is salty, especially when the river is low. Silver and Black Wattles and Blackwoods, Callistemon paludosus and Leptospermum lanigerum, and rarely flavoscens, occur. The Callistemou I have not noticed below the wharf, but the Woolly Tea-tree extends a long way down. The riverside gums at Bairnsdale are Red Gum, E. tereticornis, Gippsland Box, E. Bosistoana, Manna Gum, and Swamp Gum, E boata. Of these the Red Gum extends to the mouth of the river; some trees carry shorter and stouter buds—possibly a salt effect. The Common Reed, Phragmites, is worth a note as a most valuable plant for breaking the wash from the river steamers and protecting the banks both by its roots and its mass of stems. It needs to be tied down to establish if. An earlier protection is made by wire-netting with Boxthorn thrown in behind it. Soundings in the Backwater gave seven feet of water just outside the Reeds.

"The Backwater" (Bairnsdale), which is open to the river below and receives the waters of Clifton Creek, carries in the water Cladium articulatum and C. jamaiconse (Mariscus), Club-rushes, Scirpus lacustris, and occasionally maritimus, the Bulrush, Typha angustifalia, and Phragmites. In Clifton Creek the boat's progress is eventually arrested by Triglochin, Vallisneria, and other plants.

The Pound Swamp, a permanent billabong disconnected from the river in ordinary flow, situated a short distance up the Mitchell flats on the town side, presents a banded appearance in the water vegetation, the species being mixed, but different ones predominating in successive zones. Care is necessary, as the water near the cliff deepens somewhat rapidly, and the bottom is irregular from limestone blocks. At the edge Scirpus lacustris occurs, with patches of Alisma plantago. Further out are Triglochin procera and Jussiena repens, with partly floating habit. Heleocharis sphacelata is in patches. Myriophyllum elalinoides, in part mixed with the Jussiena and Triglochin, predominates after these cease ; Vallisneria, also occurring in shallower waters, is seen outside this Coarse Water-Milfoil. Beyond I thought to be clear water, but in the spring of 1022 abundant flowers of a Potamogeton appeared. Obtaining some by spearing with a rod, hook, and line, I determined it. as P. ochreatus (P. oblusifolius). A piece reached a length of o feet 3 inches, but the depth of water was not ascertained. In April, 1923, the water being very low, on a still day I was able to see clearly this Potamogeton still well submerged. (Since this was written I have obtained Ceratophyllum here, probably growing near P. ochrcatus.)

The orchid Dendrobium striolatum was found freely at one place on rocks on and below a steep, shady cliff. The epiphytic orchid. Sarcochilus parviflorus, was also noticed on trees, in one valley only, in good shade.

Jussieua is sometimes found at the water's edge out of water, and is creeping as well as floating. It sometimes, at least, shows white outgrowths, best regarded as related to acration. It is possibly significant that the best examples 1 found were in a somewhat polluted water, but a seasonal effect may be involved : they were found in late summer.

I have referred little to the hills of older rocks to the north.

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which I have not so much examined. The country north of the Tertiary area is still forest, with undergrowth, and E. cugenioides and other species continue E macrorrhyncha, Red Stringybark, appears on all the older formations—Ordovician bedrock, granitic rocks, and Devonian. Howitt's "E. amygdalina, var. a," common form, appears; it also is rate if it occurs at all—on the Tertiaries.

A patch of Yellow Stringybark, E. Muelleriana, occurs on and about Mount Lookout on Devonian and porphyritic rocks. Another patch occurs in bedrock country near Water-holes on the Nicholson, but whether actually on bedrock or alluvial I did not ascertain. Near Orbost the Yellow Stringybark occurs on what appears to be ordinary Tertiary country. Messmate, E. obligua, is not common near Bairnsdale; a patch occurs just north of Bulumwaal with E. cinerca, var. multiflora. The Red Ironhark, E. sideroxylon, occurs on the Tertiaries as well as the older formations, though sometimes they begin at the change of the formation, and the same applies to Golden Wattle. Ironbarks reach to close to the sea cliff east of Lakes' Entrance. There is no E. leucoxylon in the limited sense; if the name "White Ironbark" should be heard applied to an East Gippsland tree it will probably mean E. Sicheriana. Hickory Wattle, Acacia penninervis, occurs mostly on bedrock country, but there is a patch on Tertiaries near the Moormurng Timber Reserve. Hakea oriantha belongs to the older formations, and a very prickly Leucopogon occurs on bedrock country. On Granite Rock, about seven miles N.N.E. of Bairnsdale, I found Isotoma axillaris, a fine, showy species, worth cultivation, but intensely aerid. Rubus rosi/olius occurs on Mount Lookout, agreeing closely with Howitt's west limit for it on Mount Taylor. It very likely will occur in the lower country as well. In fact, there is ample evidence generally to show that care is necessary. in stating the preferences of any of the rarer plants.

The map shows the positions of the various places referred to, but does not claim to show the creeks and crooked roads exactly. Obvious abbreviations indicate localities for various eucalypts, not necessarily the prevalent species. The dotted line indicates roughly the position where the older rockformations are met with. The phrase "eugenioides country" needs interpreting as above; there is plenty of eugenioides further north.

LOCAL HANDBOOKS.—We are pleased to learn that the Tasmanian Government has recently published two handbooks dealing with the shells of that State, and hope to have an opportunity of giving an extended notice of them in these pages at an early date.

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