

using weed sprays in a small area and monitoring any subsequent effects. It is, however, important to control the weeds as both blackberry and fennel have the potential to become the dominant vegetation of the area.

The moss and liverwort list below is certainly not definitive, as lichens were the main group concentrated upon and I am certain that with more searching there would be a considerably greater number of species reported.

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Species Lists

Lichens on cobbles (26)
Buellia spp.

(at least 2 spp., probably more)

Dirinaria picta
Flavoparmelia soreliana
Hypogymnia ?lugubris
Lecanora spp.

(at least 2 spp., probably more)

Lecidea sp.
 ?*Lepraria*
Neofuscelia verrucella AK 250814
Parmotrema chinense
Pertusaria sp.
Physcia adscendens
Placopsis ?perrugosa
Placopsis sp.
Rhizocarpon geographicum
Rhizocarpon sp.

Rimelea reticulatum
Rinodina
Stereocaulon ramulosum
Usnea rubricaulis
Verrucaria maura
Xanthoparmelia ?australasica
Xanthoparmelia ?mougeotina AK 250816
Xanthoparmelia mexicana
Xanthoparmelia sp. AK 250815

Lichens on kowhai (11)
Graphis AK 250820
Lecanora sp.
Pannaria AK 250818
Psoroma ?leprolimum
Psoroma sp.
Punctelia subrudecta AK 250819
Ramalina celsa

Rimelea reticulatum
Teloschistes flavicans AK 250817
Xanthoparmelia ?australasica
Xanthoria parietina

Mosses (5)
Bryum ?campylothecium AK 250824
Hypnum cupressiforme AK 250825
Sematophyllum contiguum AK 250821
Syntrichia princeps AK 250823
Thuidium furfurosum AK 250822

Liverworts (3)
Chiloscyphus semiteres
Frullania solanderiana
Frullania squarrosula



**Remembering Phil Gardener
 1 January 1928 - 13 October 2000**

Enid Asquith

This wiry 72 year old "bare foot" botanist was man of so many talents and achievements. His passion for plants was so infectious, and I feel fortunate to have shared some happy hours in his company.

Phil started his interest in plants at a young age and as a fourth-former in 1943 received a prize for his fern collection. His love of tramping and mountaineering gave him the opportunity to study and collect native plants throughout New Zealand. In 1953 he was a member of the second New Zealand mountaineering expedition to go to the Himalayas; while there he collected plants for the British Museum, including several new species. In 1987 Phil also collected in the Cook Islands. This collection is now at the Landcare Herbarium and being used by Bill Sykes who is working on the flora of the Cook Islands. Phil was a nurseryman for many years. He completed his PhD in 1981, doing his research in rose viral diseases.

Phil and his wife Georgie relocated to the Waikare inlet in the early 1980s, in the Bay of Islands. This was an isolated property accessed only by boat. Over a period of 13 years they carried out research into new sub-tropical fruit propagation suitable for Northland. They worked with macadamia, cherymoya, casimiroa, loquat, tropical guava, bananas, feijoa, persimmon and other less known fruits.

After three years on the road in a campervan, Phil and Georgie retired to Ruakaka. They looked for a bungalow needing minimal care, with a small garden – they ended up buying a house and another empty section! Once again they established a very beautiful and thriving garden.

Phil's funeral service was held in this garden. He was wearing his familiar tartan shirt, holding his lens and botanising note book.

"I have never done a day's work – it was all pleasure."