

VIREYA VINE ISSUE # 27,

DECEMBER 1990

From Leslie Riggall
Dear VV,

Kloof, South Africa
August 15, 1990

I was very surprised to see a letter from Peter Cox in the Vireya Vine, because Scotland seems to be an unlikely place to grow Vireyas. It has been many years since I visited Peter and his father, when I was kindly invited to lunch, and it is remarkable how the VV links people together who are so far apart.

It is clear that Peter has lost none of his boundless enthusiasm, but I fear that even he will not succeed with Vireyas. I do not see how he can make money with these tropical plants at a latitude of around 56 degrees (that of Canada). The plants surely need too much artificial heat and light. I remember Sir James Horlick telling me that he could not flower japonica camellias because the light was so poor in his Scottish garden on the island of Gigha. The south of England would be a better venue in the British Isles, for commercial production of Vireyas. They would need less heat and the natural light would be stronger.

It is interesting that the symptoms of sickness Peter Cox lists are the same as those I found, when I tried to grow hundreds of species and hybrids of cool and temperate climate Rhododendrons in my subtropical climate here in South Africa. Only 3 varieties have survived and flowered here, "President Roosevelt", "Grenadier" (which has a tender parent, *R. elliotii*), and that marvelously adaptable and indestructible very hardy Victorian hybrid "Roseum Elegans". In my Portuguese garden, plants of "Roseum Elegans" has survived well through 30 dry summers without being given a drop of water.

The similarity of symptoms of sickness suggest that Peter is battling against an unfavorable climate, as I was here in Fern Valley, and I have given up trying.

Because newly germinated Vireya seedlings are so susceptible to fungal attack, I use pure finely sifted pine bark for them. I am sure that potting or planting out in pure pine bark is a mistake, and I would not give them magnesium lime or any other chemical fertilizer. Even those which grow in the crotch of trees receive some organic nutriment from dead leaves, fallen flowers, tree pollen, bird droppings, dead insects, etc. I consider organic food in the form of compost to be a necessary ingredient of the mix.

Vireyas grow epiphytically only where there is insufficient light at ground level. Where space and light are available the plants grow better on the ground. In most cases there is a high content of compost or humus in tropical soils. Trying to imitate nature, I use compost and soil, with shredded pine bark to improve drainage and to inhibit *Phytophthora cinnamomi* (root-rot fungus), which is always present here during our warm wet summers.

The Vireya roots grow laterally, very close to the surface, so we mulch with dead leaves, etc. to keep them moist and cool. Apart from water in dry weather, they need nothing else.

Good drainage seems to be much more important than nutrition. There are various indications of this. Epiphytes obviously enjoy excellent drainage, but obtain hardly any nourishment. Natural seedlings are found almost invariably growing in moss at the top of steep banks. There is evidence that they flower better when the roots are restricted. At Kew, Vireyas grew well when planted in ground beds in the greenhouse, but never flowered. When they were grown in containers they flowered well. Those species which do not have large fleshy leaves which may burn in the sun, such a *R. aurigeranum* and *christianae*, grew well on steep stony hillsides.

The suggestion that day length is a factor is probably true. Our day length here in South Africa never varies as drastically as in Britain, which has short days in winter and long days in the summer. No doubt controlling the day length to 12 hours would help, but again this would raise the cost. I feel that growing *Vireyas* in Scotland is never going to be a commercial proposition.

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From Keith Adams
Dear VV,

New Plymouth, New Zealand
August 1990

I have recently visited Sarawak and Peninsular Malaysia for the fifth time on yet another quest for *Vireya* *Rhododendrons*. Every time I go I try to explore at least one new region. In June of this year, I once more found myself in the Kelabit Highlands in northern Sarawak with the intention of exploring a peak called Batu Lawei. I was there at the village of Bario in March last year, but the military refused me permission to climb Batu Lawei. This year I was successful.

Batu Lawei is 3 days hard jungle trek from Bario and like all jungle routes, you go up and down a dozen times, before reaching your final objective. The rivers were low so that crossings were not too difficult. This was the June dry season, drier than they had ever experienced - and hotter. Even the natives were complaining about the heat of this Borneon jungle.

The first rhodo's I encountered were on a high point (1,600m) adjacent to the Tamu Abu cliffs. Just two species, *Rs. stapfianum* and *crassifolium*, the latter growing either terrestrially or as an epiphyte. I marked these for collection on the way back. We climbed on down (my guide porter and I) over huge moss covered boulders which would be the bed of a raging torrent in the rainy season, to a place where we could camp near a large stream. This stream strangely flowed north to join the Limbang river, which joins the sea north of Brunei. On the way down, I noticed what looked like a *Rhododendron* but by then we were in deep jungle again. A second look convinced me that it was a *Rhododendron* and that this species continued right down to our camp. For me this was a rarity, because normally *Vireyas* need light and only start appearing when the jungle thins to light mossy forest. I later identified this species as *R. lanceolatum*. It is not in cultivation as far as I know. We were off early the next day for another rigorous climb and at the top of a clear section of the trail, I found more species. These were *Rs. stenophyllum*, *himantodes*, *fallacinum*, *pneumonantherum*, *crassifolium*, one that I think could be *cuneifolium* and one that I don't know. The later two are very small leaved species and none were in flower, and no seed! I collected cuttings of all of these. That night, we camped near the base of Batu Lawei. The next day it was to Batu Lawei and back, but nothing new, just more of the same. Batu Lawei itself is unclimbable for the last 250m - a great pinnacle of vertical sandstone.

Next day we were lucky enough to shoot a barking deer, so we had fresh meat in camp that evening. The tropical rain forest of Sarawak consists of both hard woods (sinkers) and soft woods (floaters) and includes the Bornean Kauri - *Agathis alba* (Damar) which does not attain the girth of the New Zealand Kauri, but makes a clear bole reaching 30 meters before the first branch. Vast concessions of Borneon jungle are now being cut over, with big timber companies taking every millable tree out. In the process they are causing enormous erosion and silting up of the rivers.

I have hitched rides over company logging roads and flown over huge tracts of jungle with red clay roads cut into every accessible area. No wonder people are concerned about the annihilation of one of the few remaining tropical rain forest of the world.

I returned to Bario, minus a bit of blood that the leaches had gotten and with only a few days delay, flew out to Miri. Then on to Kuching where I obtained the necessary phyto-sanitary certificates for my cuttings from the agriculture department and airmailed them home. The cuttings arrived within 5 days and with the exception of *R. himantodes* (notoriously difficult) a good percentage appear to be doing well at Pukeiti.

After a weeks rest with friends in Kuching, I flew on to Kuala Lumpur where I stayed with more friends. While in Malaysia I had sufficient time to make two more collecting trips - easy ones this time, to places I had previously visited. One day we drove to the old Genting road in the Genting Highlands and climbed a small peak called Bunga Bua. I knew what to expect and wasn't disappointed. Only one *Vireya* was in flower, *R. malayanum*, but some others collected were *Rs. micromalayanum*, *jasminiflorum*, and what I suspect is *R. scortechinii* - also the only *Irroratum* species in Malaysia, *R. wrayii*.

I stored the cuttings in the fridge and took off the next day by bus for the Cameron Highlands. I know my way around pretty well, so at much expense I hired a taxi to take me to the top of Gunong Brinchang, 2,000m, where there is a telecom station, hence the road. I walked back to the town of Brinchang, collecting all the way down. On the summit I collected another form of *R. malayanum*, a much larger leafed form and a species that I had previously missed, *R. perakense*. I saw only 2 plants of the latter and as far as I know it is not in cultivation. In sequence as I went down were *Rs. wrayii*, more *malayanum*, *pauciflorum*, *jasminiflorum*, and finally 2 cuttings of *R. robinsonii*. I have *pauciflorum* and *jasminiflorum* flowering in my own garden, collected in 1984 and what I hadn't realized before, there are 2 forms of *R. wrayii*. The Genting one has no indumentum while the Brinchang one has a light fawn indumentum.

Cameron Highlands is the great vegetable garden of Malaysia and is also an area of huge tea plantations. But what is happening there is that the vegetable farmers are gradually pushing higher and in the process of clearing the jungle are burning everything in sight. One colony of *R. jasminiflorum* I remember from previous visits no longer exists - all burnt. The one plant of *R. robinsonii* that I saw there, I'll warrant won't be there the next time I go, which I hope will be in 1992.

Vireya species collected:

Rs. crassifolium, *cuneifolium*, *durionifolium*, *fallacinum*, *himantodes*, *lanceolatum*, *jasminiflorum*, *malayanum*, *micromalayanum*, *pauciflorum*, *perakense*, *pneumonanthum*, *stapfianum*, *scortechinii*, *stenophyllum*, and one other

Irroratum series:

R. wrayii (two forms)

Keith Adams
12 Sequoia Grove
New Plymouth, New Zealand

Thanks for the wonderful story Keith. You are one of the very few people in the world caring enough to do this labor of love collecting. Keith's story was first published in the Pukeiti newsletter of September 1990. The Pukeiti Rhododendron Trust [inc.] grows many Vireyas. Graham Smith, the garden director and has collected Vireyas in New Guinea. The Vireyas do pretty well at Pukeiti and Graham is putting some plants outdoors in the garden with some natural protection. If you are ever in the South Pacific you must put Pukeiti on your agenda. It is really a wonderful place.

Many of us here in the North West of the USA do not consider ourselves conservationist, but are getting very upset about our own logging industry. They would cut every last tree in the world if we let them and claim it was OK because they will just regrow again. NO Way! The old growth trees will never be seen on this earth again once they are gone. Here in the North West we just are not going to let them cut the very last tree. Keith, --- does anyone care about the jungles in the Malaysian area. Or does anyone care that has enough power to slow it down or stop it? Do the people that live in the areas know or understand what is happening to their forest and jungles? Last night I watched a TV program on Public Television about the greenhouse effect. They predict that by the year 2075 the last jungle tree will be gone. These trees will be GONE FOREVER, but then again it might not happen because we might be gone before that time if we don't wise up.

I was over visiting with Fran Rutherford the other day and we spent some time looking at the Vireyas in his greenhouse. Fran has a plant of *R. robinsonii* coming into bloom. I had never seen this plant before and was struck by how the leaves and the plant looked like *R. brookeanum*. The leaves had the distinctive shiny upper surface and the same upward curving that I know as *brookeanum*. I don't remember if Frans *robinsonii* had the reddish tinge on the leaves that my plants of *brookeanum* have. Frans plant only had one flower open and it was butter yellow, not the bright or golden yellow of *R. aurigeranum* or *laetum*. BUT, the one flower that was open was split. What makes the flowers split? Fran will keep his eye on this plant and see if more flowers split. Also, could the species *robinsonii* be just another variety of *R. javanicum*? Look in the "Rhododendrons of Sabah" book at the section about *javanicum* and wonder some more.

The 2 cuttings of *R. fallacinum* that I had finely gotten rooted have died now. But the main plant put on good growth this summer and I now have 3 fresh new cuttings in the propagating bed. On some species I think that a person needs to get the cuttings in just after they harden off. Many Vireyas will root easily but some are very slow. I remember when the hardy Rhododendron "Lems Cameo" was first available, many people found it hard to root. Most people had success if they took the cuttings on very soft new wood.

From Leslie Riggall
Dear VV,

Kloof, South Africa
October 2, 1990

Having experienced "Windy Wellington", the fact that Vireyas are growing there successfully by Joyce Waters surprises me. It is another indication that these tropical plants are much more tolerant of unfavorable climates than one could expect.

Apart from cold damage in the winter, I would expect the strong winds of Wellington NZ, to flatten many Vireyas, or even uproot them, as so many are top-heavy on long stems. Even in my mild conditions I find Vireyas to be unstable plants with weak and shallow root systems. It seems to me that one of the most important goals for Vireya hybridizers would be to produce compact hybrids, which would have the advantage of being attractive when not in bloom.

This means that leggy and untidy species like *R. aurigeranum* and *zoelleri* would need to be crossed with compact and low growing species and never with each other. Fortunately we have so many different species to choose from, that hybridizers will certainly attain whatever goals they set for themselves, in due course.

Clarice Clark made a good point about avoiding too much potting mix for Vireyas in containers, and the advantage of wood flats or benches over ordinary plant pots. The problem is that the average pot is entirely the wrong shape for a Rhododendron. It should be only half as deep as is usual, that is, the depth should be only half as much as the width. Those clever gardeners in Japan use containers of those proportions for many shallow rooted plants, fitting the pot to the plant, instead of requiring the plant to adapt to the wrong kind of pot. Another advantage of low, wide pots is that they never fall or blow over.

7. I have always been doubtful of claims made for commercial proprietary rooting powders or solutions such as Rootone, and Seradix, having at times observed adverse results, and I have had good results with out them. Thus I was keenly interested in the report of controlled experiments carried out by John Harrington, detailed in the summer 1990 edition of the Journal of the American Rhododendron Society. Viners who do not belong to the American RS should make a point of borrowing this edition from someone who is a member.

The experiments demonstrated that 85% of the Rhododendron cuttings rooted without any chemicals and that indole-3-acetic acid, indole-3 butyric acid (Seradix), and Rootone all reduced the percentage of success. On the other hand the percentage of rooting success was improved by 11.7% when he used, naphthalene acetic acid, which is a paste smeared onto the wound of the cutting. This 11 + % increase added to the normal 85% of success gives a percentage of close to 100%.

I hope viners will try this substance, and let us all know the results they achieve. Please give all of the other details of your treatment of cuttings, so that we can, between us discover what is the optimum method of rooting Vireya Rhododendron cuttings.

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I dug out the Summer issue of the American RS Journal and read the Harrington article again. I am not sure what it all means, but it has some very interesting data that needs to be considered. I, E. White Smith, have never used rooting hormones on Vireya Rhododendrons as a steady habit. Sometimes I have used Rootone but do not think that it did any good. I have never had any trouble rooting Vireyas. I do remove some leaves and do trim some to half size but not always. I remove and trim only to provide more space in the cutting box. I have been rooting Rhododendrons for over 30 years in the same cutting bed in my greenhouse. I have rebuilt the wooden box 3 times and change the rooting media about every 4 years. I do use heat cables and a plastic cover over the top. I have noticed that some areas in the cutting bed always give better results than others. Near the sides is the poorest areas and close to the back of the bed is not very good. If I have something that I think is hard to root or I only have a few cuttings I put them into a good spot, but when I put the cuttings of R. Valentine in the poor spots near the sides or back they root anyway. I would like to know where to get the hormone "naphthalene acetic acid" from. Does it have a trade name. Is it always in a paste form?

VIREYA BOOKS

'An Account of Rhododendron in Malesia'. It is a partly reprint from 'Flora Malesiana' ser. I, vol. 6, part 4. The author is H. Sleumer, Rijksherbarium, Leyden, Netherlands.

This book contains very detailed descriptions of 276 species. It has line drawings of maps, scales, and some plants. There are also a few photographs of some species included. This book has been out of print for many years and is not available without much searching.

'New Species and Noteworthy Records of Rhododendron in Malesia (Ericaceae)'. By H. Sleumer. A reprint from Blumea 21 (1973). A 20 page booklet describing new species and adding information about other ones.

'The Rhododendron Handbook 1980 Rhododendron Species in Cultivation'. From the Royal Horticultural Society, London. Very good reference book which list most of the species recognized as of the printing date. There are brief descriptions of many Vireya species.

'The Ericaceae of the High Mountains of New Guinea', by P. Van Royen & Paul Kores. Printed in 1982. This book is a reprint of 'The Alpine Flora of New Guinea' and includes Rhododendrons and Gaultheria, Vaccinium, Agapetes, and other Ericaceae from the area. This book only contains the High Mountain species. It has good descriptions with line drawings and photographs.

'Vireya Rhododendrons', 1989. by Mr. J. Clyde Smith who lives in Keiraville (near Wollongong) Australia, has in conjunction with the Australian Rhododendron Society printed this book. has 76 pages, 45 color pictures, a beautiful photo of a R. macgregoriae hybrid on the cover, and a complete text about growing these plants. Clyde has included sections on "Introduction to the Section Vireya", a good coverage of Vireya history, native habitat, the flower, the leaf, a list of species in cultivation in Australia, propagation, growing in containers, in the garden, under cover, pest and diseases, a list of hybrids that have been registered that has 122 names and descriptions, and much more. Many of the color photos are from the wild and I am particularly taken with a picture of R. superbum being held up by a native New Guinean. What a sight R. superbum must be in bloom. I am still waiting after 10 years from cuttings.

'Rhododendrons of Sabah'. 1988 The Massachusetts Chapter of the American Rhododendron Society is selling this Vireya book, 'Rhododendrons of Sabah' by George Argent. The cost is \$14 + \$2.00 postage (\$16.00). \$5.00 of this cost will be sent back to Sabah, Malaysia to support a garden there. Send check payable to;

"ARS Massachusetts Chapter".

Mrs. Henry Wrightington
571 State St. Tel # (617)826-6898
Hanson, MA 02341

This is a very nice book. There are 90 color plates with drawings and maps. There is a picture of *R. javanicum* ssp. *brookeanum* var. *kinabaluense* that will just make your mouth water. Note that *Rhododendron brookeanum* is now a subspecies of *R. javanicum*. In *Vireya Vine* (VV22), when Keith Adams was writing about a *Rhododendron* called *R. borneense* and you could not find it in any book? *Borneense* is shown in a color photo in this book.

Out side of the USA the Address is;
Sabah Parks Trustees
P.O. Box 10626
88806 Kota Kinabalu
SABAH, MALAYSIA

Other Vireya Rhododendron Publications;

The 'Journal' of The American Rhododendron Society. Executive Director - Barbara Hall, P. O. Box 1380, Gloucester Virginia 23061. This journal has had many articles and photographs. Published four times per year for the membership.

'The Rhododendron', the Official Journal of the Australian Rhododendron Society. Correspondence to Mrs. L. Eaton, P.O. Box 21, Olinda Vict. 3788, Australia. This Journal has had many articles and photographs over the years about Vireyas. Published for the membership once per year.

'Rhododendron and Azaleas in Australia', by Graham P. Price (1988). This booklet includes information about Vireyas in Australia. It was printed with the cooperation of the Victorian Branch of the Australian Rhododendron Society.

'Vireya Vine', from the Rhododendron Species Foundation. Edited by E. White Smith, 4317 No. 18th, Tacoma Washington, USA 98406. RFS, P. O. Box 3798, Federal Way Washington, USA, 98063. Started in 1982. Published four times per year.

'Vireya News', Edited by Michael Cullinane, Rose Tree Gardens, P. O. Box 631, Levin 5500 New Zealand. Newsletter started in 1987. Published four times per year.

List of Vireya Rhododendron Species; Alphabetized on the left side of the page and listed by Dr. Sleumer's numbers on the right side. The Sleumer numbering system is a helpful reference and seems to add some order to a very large list of species names (303 in all).

abietifolium	166	vaccinioides	A1
acrophilum	177	asperulum	A2
acuminatum	82	retusum	1
adinophyllum	17	taxoides	2
aequabile	90	insculptum	2A
agathodaemonis	30	emarginatum	2B
album	89	santapauli	2C
alternans	172	pulleanum	3
alticolum	180	nummatum	4
amabile	124	gaultheriifolium	5
anagalliflorum	137	oreites	6
angulatum	208	erosipetalum	7
apoanum	79	detzneranum	7A
archboldianum	115	hameliiflorum	8
arenicolum	100	lindaueanum	9
arfakianum	261	capellae	9A
armitii	119	spathulatum	10
asperrimum	46	saruwagedicum	11
asperulum	A2	invasorium = inconspicuum	12
asperum	62	perakense	13
atropurpureum	191	buxoides	13A
aurigeranum	254	vanderbiltianum	14
baenitzianum	229	kawakamii	14A
bagobonum	162	seimundii	15
banghamiorum	178	scortechinii	16
beccarii	222	sororium	16A
beyerinckianum	51	adinophyllum	17
blackii	268A	cyrtophyllum	18
bloembergenii	241	ericoides	19
brachygynum	265	nanophyton	20
brachypodarium	128	schizostigma	21
brassii	188	meliphagidum	22
brevipes	253	vankii	23
brevitubum	220	ciliilobum	24
brookeanum = javanicum	276	quadrasianum	25
bryophilum	44	habbema	26
bullifolium	65	cinchoniflorum	27
burttii	155A	protandrum	28
buruense	240	inundatum	29
buxifolium	192	agathodaemonis	30
buxoides	13A	herzogii	31
caespitosum	140	incommodum	32
caliginis	41A	eymae	33
calosanthes	196	revoltum	34
capellae	9A	extrorsum	35
carrii	118	hellwigii	36
carringtoniae	110	superbum	37
carstensense	111	prainianum	38
cernuum	98	stelligerum	39
celebicum	205	neriifolium	40
chamaepitys	108	hooglandii	41

chavalieri	242A
christianae	247
christii	200
ciliilobum	24
cinchoniflorum	27
cinerascens	127
citrinum	154
coelorum	147
commonae	165
commutatum = longiflorum	233
comparabile	244
comptum	96
coriifolium	198A
cornu-bovis	160
correoides	95
crassifolium	227
cruttwellii	114
culminicolum	268
curviflorum	201
cuspidellum	232
cyatheicolum	61
cyrtophyllum	18
delicatulum	43
detzneranum	7A
dianthosmum	73
dielsianum	47
disterigmoides	146
durionifolium	77
edanoi	132
emarginatum	28
engleranum	230
ericoides	19
erosipetalum	7
extrorsum	35
eymae	33
fallacinum	78
flavoviride	246
fortunans	83
frey-wysslingii	155
fuchsii	262
gardenia	54
gaultheriifolium	5
gilliardii	64
giulianettii	101
glabriflorum	203
goodenoughii	129
gracilentum	139
habbema	26
hameliiflorum	8
hartleyi	114A
hatamense	158
heamatophthalmum	69
hellwigii	36
helodes	175
herzogii	31
himantodes	75
hirtolepidotum	212
hooglandii	41

caliginis	41A
rarum	42
neobritannicum	42A
delicatulum	43
bryophilum	44
tuberculiferum	45
asperrimum	46
dielsianum	47
stolleanum	48
psilanthum	49
phaeochitum	50
beyerinckianum	51
leptanthum	52
warianum	53
gardenia	54
thauasianthum	55
konori	56
phaeopeplum	57
opulentum	58
hyacinthosmum	58A
spondylophyllum	59
melantherum	60
cyatheicolum	61
asperum	62
rhodochroum	63
gilliardii	64
bullifolium	65
solitarium	66
schoddei	67
phaeochristum	68
heamatophthalmum	69
phaeops	70
truncicolum	71
rappardii	72
dianthosmum	73
rubellum	74
himantodes	75
vinicolor	76
durionifolium	77
fallacinum	78
apoanum	79
malayanum	80
micromalayanum	80A
nortoniae	81
acuminatum	82
fortunans	83
lineare	84
obscurum	85
variolosum	86
wilhelminae	87
hybridogenum	88
album	89
aequabile	90
proliferum	91
zollingeri	92
lagunculicarpum	93
yelliotii	94
correoides	95

hyacinthosmum	58A	comptum	96
hybridogenum	88	lampongum	97
impositum	263	cernuum	98
impressopunctatu	210	pudorinum	99
incommodum	32	arenicolum	100
inconspicuum	183	giulianettii	101
insculptum	2A	versteegii	102
intranervatum	274	multinervium	103
inundatum	29	natalicium	104
invasorium = inconspicuum	12	ruttenii	105
jasminiflorum	136	rhodosalpinx	106
javanicum	225	stapfianum	107
kawakamii	14A	chamaepitys	108
kedittii	199	macrosiphon	109
kemulense	223	carringtoniae	110
kochii	252	carstensense	111
konori	56	syringoideum	112
laetum	248	maius	113
lagunculicarpum	93	cruttwellii	114
lamii	184	hartleyi	114A
lampongum	97	archboldianum	115
lanceolatum	259	pleianthum	116
leptanthum	52	searleanum	116A
leptobrachion	236	oliganthum	117
leucogigas	238	carrii	118
leytense	264	armitii	119
lindaueanum	9	tuba	120
lineare	84	rhodoleucum	121
loboense	215	pubitubum	122
lochae	244A	pseudotrichanthu	123
loerzingii	209	amabile	124
lompohense	239	radians	125
longiflorum	250	oreadum	126
loranthiflorum	133	cinerascens	127
lowii	273	brachypodarium	128
luraluense	245	goodenoughii	129
luteosquamatum	182	pneumonanthum	130
macgregoriae	242	orbiculatum	131
macrosiphon	109	edanoi	132
maius	113	loranthiflorum	133
malayanum	80	retrorsipilum	134
maxwellii	256	subpacificum = loranthiflorum	135
melantherum	60	jasminiflorum	136
meliphagidum	22	anagalliflorum	137
micromalayanum	80A	rubineiflorum	137A
microphyllum	141	womersleyi	138
mindanaense	266	gracilentum	139
mollianum	269	caespitosum	140
moultonii = javanicum ssp.	224	microphyllum	141
multicolor	219	pusillum	142
multinervium	103	muscicola	143
muscicola	143	parvulum	144
myrsinites	151	oxycoccoides	145
nanophyton	20	disterigmoides	146
natalicium	104	coelorum	147
neobritannicum	42A	saxifragoides	148
neriifolium	40	taxifolium	149
nervulosum	257	stenophyllum	150

nieuwenhuisii	163	myrsinites	151
nortoniae	81	subulosum	152
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These three species listed below have been added to the list from the book "Rhododendrons of Sabah" by G. Argent, A. Lamb, A. Phillipps, and S. Collenette. These plants are described by Dr. Argent in the book. He also describes seven hybrids some of which are listed as species in the forgoing list, ie. R. x coriifolium, x fuchsii, x keditii, x liegianum, x planecostatum, x sheilae, and x silvicolum.

baconii closely resembles R. praetervisum
borneense kind of like R. bagobonum but very different scale type
meijeri has very hairy leaves

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