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Well, anyone can make a mistake (said the porcupine as he jumped off the hairbrush). My tentative list of grevilleas published last newsletter caused quite a number of letters to be sent to yours truly, most pointing out certain errors for which I offer my earnest thanks. Although the list was compiled by one of our members, I must confess that I did not read the proof correctly or conscientiously and certain errors crept in. The list as published is not likely to be completely correct anyway as the genus is undergoing a revision which is nearly completed (about 75 species to do). I shall point out the errors as I saw them (or had them pointed out). However, as I do not want an ongoing saga, we will not do anymore until the revision is completed.

ERRATA AND OMISSIONS:

- Add *G. acacioides* C.A. Gardner Dist. W.A. Moorine Rock
G. baueri R.Br (not *G. Bauerii*) spelling error
G. cyranostigma McGillivray (not *G. cyranostegia*)
G. disjuncta F. Muell. (not *distuncta*)
G. filifolia delete. Synonym for *G. endlicherana*
G. helmsiana delete. Synonym for *G. Plurijuga* W.A.
G. Jamesoniana delete. Synonym for *G. sarissa*
G. juniperina var. *juniperina* (not var. *juncifolia*) typing error
G. leptobotrys Meisn. (not *leptobotrya*) spelling error
G. pachypoda delete. Synonym for *G. mimosoides*
G. parviflora R.Br. S.A. = *parviflora* var. *acuaria* = ? *halmaturina*
G. polybractea Williamson (not *polybractya*)
G. pritzellii Diels. (not *pritzellii*)
G. rogersiana C.A. Gardner (not *rogersiana*)
G. quinquenervis J.M. Black (not *quinquineris*)
G. shiressii Blakely ~~W.A.~~ Qld. = *G. singuliflora*. *G. shiressii* is a very rare plant known from two locations at Wondabyne and Moonee Moonee N.S.W.

ERRORS IN DISTRIBUTIONS:

- G. crassifolia* W.A. Northwest. Wrong. Mainly around the Stirling Range area (synonym for *G. fasciculata* form)
G. sp aff deflexa occurs more around Norseman. Fairly inland sp.
G. glauca also found in New Guinea.
G. montana Found in the Hunter River area
G. nematophylla Also S.A. and ? N.S.W.
G. pinnatifida also New Guinea
G. shiressii Definitely not Qld.
G. singuliflora Definitely not N.S.W.
G. stenobotrya Also found in W, N.S.W.
G. striata Also N.S.W.
G. synapheae Hill River area W.A.
G. tenuiflora Narrogin, Boyagin, Wagin
G. thelemanniana South to c. Yalgorup National Park between Lake Clifton and Lake Preston
G. wickhamii Also Qld.
G. williamsonii Research ? has shown that this was a putative hybrid supposedly between *G. aquifolium* and *G. alpina*. The original type specimen (one only) was subsequently burnt out in a bush fire shortly after Mueller identified it as a distinct species. A study of the original pressing recently revealed that the flowers were sterile. Rodger Elliott discovered a similar hybrid single plant in amongst a colony of *G. ilicifolia* (prostrate form) in the far western Grampians several years ago. This original plant has since died but cuttings were struck from it. Parentage is uncertain because as well as *G. ilicifolia*, *G. alpina* and *G. lavandulacea* also occur in the same area. (Contributed by N. Marriott)

G. tenuiloba/tetragonoloba. For many years people have been growing a particularly beautiful plant known as G. tenuiloba. In his excellent, recently published book, JOHN WRIGLEY describes this plant as G. tetragonoloba. As no reference that I could find refers to it I wrote to John who replied that the description first appeared in de Candolle's, Prodomus Systematis Naturalis Regni Vegetabilis Vol. 14, Bentham later sank this species into the G. hookerana complex. (Hence many people also refer to it as G. hookerana var. tenuiloba). It is vastly different horticulturally from G. hookerana and the National Botanic Gardens is recognising G. tetragonoloba as a separate species. Until the revision is complete however it seems that it would be unwise to call it anything other than G. hookerana form. G. tenuiloba is a completely different plant

In his letter John also confirmed that the plant being grown in the N.B.G. as G. longistyla was in fact G. johnsonii. Botanically, there is only a very fine distinction between them and they are easily confused although they do in fact grow in geographically disjunct populations. One of our members, MERV HODGE, was in fact responsible for drawing attention to the mistake.

In N.S.W. for many years this plant (G. johnsonii) has been wrongly sold as G. longistyla and people should be wary of accepting the nursery label too readily.

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In their usual co-operative manner, National Botanic Gardens also forwarded a list of the grevilleas growing there (per favour of Mr. Geoff Butler on behalf of the Director), as well as a list of all Grevillea Cultivar Names on their records and their descriptions. Many thanks Geoff

SUMMARY OF GREVILLEA IN THE NATIONAL BOTANIC GARDENS
JULY 1981

Abbreviations: DW = doing well PP = permanent pot in nursery
 UT = under trial SS = seed store only

- | | |
|----------------------------------|--|
| G. acanthifolia | DW |
| G. acerosa | Does grow here but performance only fair |
| G. acuaria | UT but performing satisfactorily |
| G. alpina | DW |
| G. alpina sens. lat. | DW |
| G. anethifolia | DW |
| G. apiculoba | UT but performing satisfactorily |
| G. aquifolium | DW |
| G. arenaria | DW |
| G. aspera | DW |
| G. asplenifolia | DW |
| G. asplenifolia x G. cayleyi | Fair. Hit badly with leaf skeletonizers |
| G. 'Austraflora Canterbury Gold' | UT but performing satisfactorily |
| G. 'Austraflora Copper Crest' | UT but performing satisfactorily |
| G. 'Austraflora Fanfare' | UT but performing satisfactorily |
| G. 'Austraflora McDonald Park' | UT but performing satisfactorily |
| G. australis | DW |
| G. australis var. brevifolia | DW |
| G. banksii 'Kingaroy Slippers' | PP will not perform well outside |
| G. barkleyana | DW |
| G. baueri | DW |
| G. baueri hybrid | DW |
| G. baueri sens. lat. | DW |
| G. baueri x G. rosmarinifolia | DW |
| G. bipinnatifida | DW |
| G. biternata | DW |
| G. 'Boongala Spinebill' | Not performing exceptionally well |

G. brevicuspis	DW
G. brownii	UT
G. buxifolia	DW
G. caleyi	DW
G. 'Canberra Gem'	DW
G. capitellata	Not performing exceptionally well
G. chrysophaea	DW
G. cinerea	DW
G. 'Clearview David'	DW
G. 'Clearview Robin'	DW
G. concinna	DW
G. confertifolia	DW
G. crithmifolia	DW
G. 'Crosbie Morrison'	DW
G. didymobotrya	UT but looks very promising
G. dielsiana	DW
G. diminuta	DW
G. dimorpha	DW
G. dryandri	PP only and will have to remain
G. dryandroides	PP also under trial outside but not expected to perform well
G. endlicheriana	DW but deteriorates after 2-3 yrs
G. eryngioides	PP
G. evansiana	DW
G. 'Evelyns Coronet'	DW
G. sp. aff. extorris	UT
G. fasciculata	DW
G. floribunda	DW
G. x gaudichaudii	DW
G. glabella	DW
G. glabella 'Limelight'	Performance fair
G. glabrata	DW
G. glauca	PP and will be confined to this
G. 'Golden Sparkle'	Grows bare but in many instances shrubs look poor
G. goodii	PP
G. halmaturina	DW
G. heliosperma	PP
G. hilliana	UT
G. 'Honey Gem'	UT
G. hookerana sens lat	DW
G. ilicifolia	DW
G. ilicifolia var scortechinii	DW
G. 'Ivanhoe'	DW
G. jephcottii	DW
G. johnsonii	DW
G. juncifolia	Only recently sown, now UT
G. juniperina x G. victoriae	DW
G. 'Kentlyn'	UT. Will be known as 'Masons Hybrid'. Some yellowing of leaf tips.
G. lanigera	DW
G. lanigera sens. lat.	DW
G. sp. aff. lanigera	DW
G. lanigera hybrid	DW
G. latifolium	DW
G. laurifolia	DW
G. lavendulacea	DW in some areas. Some forms very difficult to grow.
G. leucopteris	Recently sown, UT
G. linearifolia	DW
G. longifolia	DW
G. longistyla	DW
G. 'Lyn Parry'	UT
G. 'Marion'	UT but doing well so far
G. microstegia	DW
G. miqueliana	DW
G. mucronulata	DW
G. muelleri	UT but looks promising
G. nudiflora	DW

G.	obtusifolia 'Little Thicket'	DW
G.	obtusifolia	DW in some places
G.	occidentalis	UT
G.	oleoides	DW
G.	paniculata	DW
G.	parviflora	DW
G.	parellela	PP
G.	patentiloba	UT
G.	pauciflora	DW
G.	pectinata	PP
G.	pilosa	PP
G.	pinaster	DW
G.	sp. aff pinaster	DW
G.	'Pink Star'	DW
G.	plurijuga	UT
G.	'Poorinda Adorning'	DW
G.	'Poorinda Belinda'	Fair
G.	'Poorinda Ben'	UT looks promising
G.	'Poorinda Blondie'	DW in some areas
G.	'Poorinda Constance'	DW
G.	'Poorinda Elegance'	DW
G.	'Poorinda Emblem'	DW
G.	'Poorinda Enchantment'	DW (shaded position)
G.	'Poorinda Ensign'	Fair
G.	'Poorinda Illumina'	Does not perform well
G.	'Poorinda Leane'	DW
G.	'Poorinda Marian'	DW
G.	'Poorinda Peter'	DW
G.	'Poorinda Pink Coral'	DW
G.	'Poorinda Queen'	DW
G.	'Poorinda Rachel'	Fair
G.	'Poorinda Refrain'	PP
G.	'Poorinda Rondeau'	Fair to poor
G.	'Poorinda Rosy Morn'	DW
G.	'Poorinda Royal Carpet'	UT looks promising
G.	'Poorinda Royal Mantle'	DW
G.	'Poorinda Signet'	DW
G.	'Poorinda Splendour'	DW
G.	'Poorinda Wonder'	DW
G.	pritzellii	PP
G.	prostrata	UT
G.	pteridifolia	PP
G.	quercifolia	UT
G.	ramosissima	DW
G.	renwickiana	UT but doing well
G.	retusifolia	SS
G.	rivularis	DW
G.	robusta	DW
G.	'Robyn Gordon'	DW
G.	rogersii	DW
G.	rosmarinifolia	DW (includes many forms)
G.	rosmarinifolia	
G.	'Canberra Dwarf'	UT but doing well
G.	rosmarinifolia 'Nana'	UT but doing well
G.	rosmarinifolia sens. lat.	DW
G.	sp aff rosmarinifolia	DW
G.	sericea	DW
G.	shiresii	DW
G.	'Shirley Howie'	UT
G.	shuttleworthiana	PP
G.	singuliflora	DW
G.	sparsiflora	UT
G.	species nov. (732657)	Not doing well - may have too much competition
G.	speciosa	DW
G.	speciosa hybrid	DW
G.	sphacelata	DW
G.	steiglitziana	DW
G.	stenobotrya	SS
G.	'Superb'	UT

G. tetragonaloba	DW
G. thelemanniana	Green form doing well, grey form only fair
G. thyrsoides	UT
G. triloba	DW
G. trinervis	DW
G. tripartita	DW
G. umbellifera	PP
G. vestita	Some doing well, some fair
G. victoriae	DW
G. victoriae hybrid	DW
G. victoriae var leptoneura	DW
G. victoriae c v.	DW
G. viscidula	PP
G. wickhamii	PP
G. willisii	DW
G. wilsonii	DW

* * * * *

PROPAGATION

SEED

I received a letter from DON LOCH, Gympie Qld., which among other things made the following comments:

" . . . There are several kinds of seed dormancy, some physical and some chemical in origin. I suspect (though without any irrefutable evidence) that something of the former type of dormancy (hardseededness) probably operates in many Grevillea species. Peeling would remove any physical restriction of the seed coat and also any chemical inhibitors there. MERV HODGE told me of successfully running hot water on seed in a sieve on one occasion. (Though this could again be inactivating a chemical inhibitor rather than breaking hardseededness as in legumes.)

The use of KNO₃ (0.2%) is a standard technique in seed testing laboratories. However, seed technologists have told me that this is only useful with fresh seed; the effects of KNO₃ are inconsistent with old seed and germination may actually be depressed. In addition, its action is on chemical forms of dormancy. Hardseededness is unaffected".

Many thanks, Don.

My own experience suggests that fresh seed definitely gives improved germination. The problem is what to do with old seed to get better germination

PADDY LIGHTFOOT, Newcastle N.S.W., writes that he has been soaking seed of G. banksii red, white and G. pteridifolia for 48 hours prior to sowing in a solution of 20% KNO₃ - 10 drops to a glass (medium size) resulting in over 90% germination. No others tried yet.

CUTTINGS

The format of this newsletter was to be mainly about cuttings. However, I was usurped by the latest edition of Australian Plants Vol. 11 No. 88. I suggest that you read carefully the article on Rooting Hormones by R.K. Ellyard. If there is sufficient demand I will arrange to buy the relevant acids in crystal form. One tip guaranteed to make the whole exercise a lot cheaper: you can substitute methylated spirits for pure alcohol without any noticeable effects on the cutting. I did use the liquid once on a grevillea alpina from Whroo forest and it had the effect of causing callousing right up the stem wherever the liquid came in contact with the stem. Eventually, when rooting occurred part of the dipped stem which was not buried beneath the medium started to root into the air as well as root lower down into the medium. I was suitably impressed and have been ever since.

Cutting Exchange

So far this system has been working well. I have been receiving material from W.A., S.A., Victoria and sending same and all material has arrived in good condition usually four days after posting. I have noticed that simply to seal the material in a plastic bag without water is as good a method as any. This was first suggested to me by MERV HODGE. I advise removing the flowers as these can easily rot quickly (much quicker than the foliage). I was informed by PHIL WOOD, Manager, Wanneroo Wildflower Nursery W.A. that they do not pack in a sealed plastic bag, because of the emission of ethylene gas in a confined space, without some absorbent material such as potassium permanganate. Ethylene gas will cause premature aging and loss of leaves.

As soon as the hot weather arrives it will not be practical to exchange cuttings. On one occasion last Christmas I received some cuttings from EILEEN CROXFORD in W.A. Unfortunately they arrived on a day which was over 30°C in Sydney and they sat in the letter box all day waiting for my return from work. I got one to strike but so much was ruined. Therefore no cutting exchange will operate after the end of October till the middle of March. I am also putting on offer the plants as offered from several members. When you send me the list of what you want, pick from one list at a time so that I can forward your request on to ONE person per request. Please do not pick material from different lists. Send all requests to me.

CUTTING EXCHANGE LISTS:

OLDE - see Newsletter No. 3

- | | | | |
|---------|----|----------------------|------------------------|
| Delete: | G | arenaria yellow | mucronulata |
| | | brachystachya | obtusifolia upright |
| | | brevicuspis | parviflora |
| | | dielsiana red | platypoda |
| | | ilicifolia prostrate | ripicola |
| | | intricata | sericea Collaroy Plat. |
| | | linearifolia | sessilis |
| Add: | G. | patentiloba | acerosa |
| | | candelabroides | flenuosa |
| | | nudiflora | |

- | | | | |
|----------------|----|-------------------------------|------------------------|
| <u>ROWLEY:</u> | G. | acerosa | ilicifolia Vic mallee |
| | | alpina Goldfields cream | " Carpenter Rock SA |
| | | alpina Goldfields apricot | " Grey Holly lea |
| | ? | apiciloba | insignis |
| | | arenaria yellow | intricata |
| | | argyrophylla | occidentalis |
| | | asparagoides | parrallelineryis |
| | | aspera | parviflora Vic mallee |
| | | australis var. australis | " pink Eyre Peninsula |
| | | aquifolium fineleaf Grampians | " Mt Clay suckers |
| | | aquifolium prostrate | petrophiloides |
| | | diminuta | pinastter |
| | | eristostachya | platypoda narrow leaf |
| | | evansiana | platypoda broad leaf |
| | | fasciculata | rogersii (muricata) |
| | | glabella | victoriae Falls Ck Vic |

MARRIOTT: No cuttings until next year

- | | | |
|----|-----------------------------------|----------------|
| G. | alpina Grampians | wilsonii |
| | alpina pink St Arnaud | diversifolia |
| | alpina prostrate Dadwell's Bridge | inconspicua |
| | alpina cream/red Ironbark Range | eryngioides |
| | alpina green/cream Whroo Forest | commutata |
| | aquifolium many forms | patentiloba |
| | baueri woolly leaf | fistulosa |
| | bipinnatifida green | bracteosa |
| | confertifolia pros. and upright | concinna |
| | dimorpha fine | dryophylla red |
| | | St. Arnaud |

endlicherana	insignis
hookerana (Tenuiloba form)	microstegia
ilicifolia var angustiloba	lavandulacea TANUNDA
miquelliana	parviflora Bie Duck Vic.
oncogyne	quercifolia
ramosissima	laurifolia
pilosa	trifida
argyrophylla fine	didymobotrya
pauciflora	hookerana L. KING
polybractea x lanigera	drummondii
(natural hybrid Mt Range)	saccata
pectinata fine leaf	baxteri
pectinata course leaf	linearifolia
pectinata entire leaf	

ROGERS:

acanthifolia	integrifolia (small)
alpina several forms	macrostylis
aquifolium several forms	phanerophlebia
brevicuspis	pectinata
didymobotrya	tenuiloba
drummondii	tripartita
evansiana	trifida
glabella several forms inc. white	

HODGE:

albiflora	heliosperma
banksii white	leiophylla
red	longistyla
white prostrate	pteridifolia
decora	pteridifolia prostrate
dryandri Grove N.T.	sphacelata (Gibraltar Range)
doriacea	venusta
glossandenia	

SHIELLS:

alpina Goldfields	acerosa
Grampians	armigera
Mt Ida	baxteri
Mt Slide	disjuncta
Mt Zero	hookerana fine leaf
McDonald Park	hookerana Lake King
Reef Hills	patentiloba
Warby Range	repens
Whroo	

HAGAN:

acrobotrya	pilulifera good form
acuaria	plurijuga
asparagoides	lavandulacea (Kangaroo Is.)
aspera	occidentalis
dielsiana	quercifolia
	quinquenervis

My personal thanks to all donors who have offered material. Many others have also offered but their range was covered by those listed above.

THE RULES:

1. You must be financial and an ACTIVE member, i.e., submitted a list of plants you are recording
2. Forward your requests to me and I will forward. Select only five species at a time from any one list.
3. Do not mix plants from separate lists.
4. Enclose an envelope and stamp with your request so that I can forward the request to the appropriate grower.

5. Send a cheque for the postage on your parcel plus 50¢ for packing as soon as you receive the cuttings. The grower will have his address on the parcel.
6. Indicate your movements (holidays, etc.) give a phone number if possible, otherwise cuttings may arrive at a bad time.
7. Do not expect immediate results from your request. We will act as promptly as possible.

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GRAFTING

I have received a note from Pip Gibian, Dural N.S.W., who writes:

"... I have recently tried grafting following a talk by one of our members DON BOURKE. He uses a simple approach graft technique to maintain his dry country stock plants. It is a simple technique which requires no glass houses and little equipment, as my success with no previous experience shows. Since late November 1980 I have had success with the following:

- G. johnsonii onto G. robusta
- G. polybractea onto G. acanthifolia
- G. dielsiana onto G. acanthifolia
- G. bipinnatifida onto G. robusta
- G. pteridifolia onto G. robusta

In all these the scion has been separated from the parent plant and is surviving. Two are even planted in the garden. All attempted grafts have taken so far. Don thinks G. robusta and G. barklyana should be most suitable stock plants (for Sydney ed.) and prefers seedlings to cutting grown plants for the stock. I ran out of G. robusta "

Thanks Pip

DON BOURKE will shortly send us more tips on grafting. Watch for more news in coming newsletters. During a recent trip to Melbourne I visited the garden of Mr. IAN MITCHELL, Ringwood Vic. If ever there was a case for grafting your difficult plants here was proof positive. Growing vigorously on Poorinda hybrid rootstocks were G. paradoxa, G. leucopteris, G. pectinata, G. petrophiloides. In fact the whole garden consisted of grafted plants with few exceptions and included hakeas, eremophilas and many many grevilleas. It seems that grevilleas will graft quite easily one to another. However beware. These are still early days. On a recent trip to Brisbane I visited Mr. HARVEY SHAW who is a retired orchadist used to grafting fruit trees. He had begun his experiments on Natives with trees, mainly Eucalypts. He grafted Euc. ficifolia onto other bloodwoods e.g. Euc. umbra, Euc. ptychocarpa similarly, and many many other species. The grafts took and the trees grew magnificently for a few years. Then they began to show signs of late rejection of the rootstock causing all the trees to stop growing and die out. In fact all grafts on eucalypts failed and the problem is still unresolved. Hopefully this is an interim period during which the rootstock problem will be researched more fully and the problem solved. I hope that the relevance of this is not lost on those trying to graft their grevilleas. To date however, it is encouraging to note that there has been no sign of any rejection problems. I urge you to get grafting now.

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SEED LIST

The new seed curator is Mr. BRIAN TIMMIS 102 Lugarno Parade
LUGARNO 2210

It is not possible to send seed through the post like an ordinary letter as the postal machines tend to crush the seed. Therefore it will have to be sent in a padded parcel bag, cost 50¢. When requesting seed please enclose a cheque for 50¢ for packing, plus the cost of seed, plus an extra 50¢ postage.

FREE SEED: (plus \$1 postage and package to Active Members only
50¢ plus \$1 postage and package to Passive Members)

Delete:	G. baueri	Add:	G. buxifolia	Olde garden	1980
	dallachiana		glossandenia	Gibian	" 1980
	lavandulacea		longifolia	Loch	" 1978
	microstegia		muelleri	Olde	" 80/79
	pterosperma		rivularis	Akkersdyke	" 1980
	stenobotrya		bipinnatifida	Hagan	" 1980
	tridentifera		patentiloba	Olde	" 1980
			banksii		

SEED FOR SALE: (50¢ packet to everyone plus \$1 postage and package)

Delete:	G. arenaria	Add:	G. berryana	(1 pkt.)
	johnsonii		brachystylis	(1 pkt.)
	ramosissima		bipinnatifida	
			crithmifolia	
			excelsior	
			juncifolia	
			pinaster	
			pilulifera	
			pterosperma	
			thelemanniana	
			wilsonii	
			nudiflora	
			confertifolia	
			endlicherana	
			mactostylis	

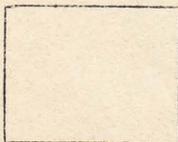
NOTE: Minimum charge for postage and packing \$1
G. annulifera IN STOCK (5 seeds = 1 pkt) 4 packets only

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FINANCIAL REPORT

Balance as at last newsletter		\$ 28.45
(\$1 error in last newsletter additions)		
Subscriptions Paid		
Donations		
Seed Purchases		243.78
		272.23
<u>Less</u> expenses: Newsletter No. 3	48.03	
Postage and stationery	4.10	52.13
		220.10
<u>Plus</u> interest received		.99
		<u>\$221.09</u>
<u>Amounts outstanding</u>		
Seed purchases - P Olde	286.75	
Nindethana	2 50	

Please note. If there is an x in the box you are unfinancial and this is your last newsletter.



Until next time,

PETER OLDE