

Newsletter



1989
No. 2
October

Royal New Zealand Institute of Horticulture (Inc.)

Daffodil trumpets herald the arrival of spring and horticulturists are gearing up for the new growing season.

Down here in Christchurch the new Horticultural Hall is being opened. In Hamilton the Trust bank Gardenworld is an event not to be missed - participants are arriving from all over the country.

This newsletter reports on the efforts of some key working parties of the RNZIH, namely the Garden History Group and the Notable Trees Committee. A proposal for the establishment of a New Zealand Plant Collections Scheme is outlined, emphasising the important role of the RNZIH in plant conservation. Horticulture is also inherently involved in topical environmental concerns such as Pesticide Use, Pollution and Hazardous Substances Management, and Climate Change, and updates on these issues are touched on.

Please note that contrary to the Chairman's Report in the last newsletter, there will be only one Journal in 1989 (which you have already received), and two next year - in February and August. It will be entitled "Horticulture in New Zealand. Journal of the Royal New Zealand Institute of Horticulture (Inc.)"

The last newsletter for this year will be published in December - please have copy to me by 15th November.

Jean Grierson, Editor

HISTORIC PLACES LEGISLATION REVIEW

One of the highlights of the AGM held in Tauranga earlier this year was the presentation given by Mrs Rorke of the Tauranga Historic Places Trust Committee on early Tauranga Garden History. Unfortunately, due to technical problems, there was no extra time after Mrs Rorkes talk to discuss the submission by the Garden History Group of the RNZIH on the Historic Places Review. It is summarised below.

SUBMISSION BY THE GARDEN HISTORY GROUP OF THE ROYAL NEW ZEALAND INSTITUTE OF HORTICULTURE (RNZIH)

(Put together by a sub-committee of Mike Oates, Rupert Tipples and John Adam)

The submission concentrates on the preservation of historic gardens and landscapes; urging that any future legislation acknowledges this important part of New Zealand's heritage.

The Garden History Group of the RNZIH has as one of its initial objectives '...to encourage the recognition, appreciation, protection and restoration of historic gardens and landscapes.' We believe that the current review offers an opportunity to fulfil this objective and strongly urge the review committee to consider:

1. recognition of historic gardens and landscapes as part of New Zealand's heritage

* The existing Historic Places Act does not contain the word 'garden'. We would like to see an explicit statutory definition of an historic garden in the new legislation.

* The Garden History Group supports extending the concept of New Zealand's heritage to cover a similar range of values as outlined in the Australian Heritage Commission Act.

* Some definitions of 'historic gardens' and the wider 'heritage' definition used overseas are cited.

2. registration and grading of sites on a national register

* We would prefer to see a two-tier grading system to ensure that attention is focussed on the most important gardens. Grading could be as follows:

- Grade 1: Gardens of national importance
- Grade 2: Gardens of local importance



Ceramic urn flanking the approach to the Joy Fountain in Wellington Botanic Gardens

3. financial incentives toward the restoration and maintenance of historic gardens and landscapes

* If gardens are to be preserved they must be constantly maintained. The development and use in Australia of a conservation plan has sound application as a basis for long-term garden restoration and maintenance, and should be considered as part of any listing scheme adopted here.

The Garden History Group would be pleased to offer the review committee any further assistance towards the formal recognition, preservation and conservation of New Zealand's garden heritage.

RNZIH Garden History Group, PO Box 11-379, Wellington

TRUST BANK GARDENWORLD '89

Trust Bank Gardenworld is going to be a gigantic spring floral festival held in Hamilton from Friday 6 to Tuesday 10 October 1989. It will be New Zealand's largest Garden and Craft show including specialist shows, displays, over 100 trade and club exhibits and a non-stop programme of action packed entertainment. All profits go towards the development of Hamilton Gardens and furnishing the new Exhibition Centre at the Gardens.

The theme of Trust Bank Gardenworld is 'The English Flower Garden', and several speakers and subjects have been arranged around this theme, including some local garden history.

Experts are being flown in from overseas and the length and breadth of New Zealand to conduct seminars and workshops, and there will be a lot of knowledge to be shared.

The Royal New Zealand Institute of Horticulture will be exhibiting at Trust Bank Gardenworld, and members are encouraged to attend what is likely to be one of the biggest horticultural exhibitions for many years. A number of horticultural groups will be holding their own conferences at this time and venue, including the RNZIH National Executive which will be meeting in Hamilton on Tuesday October 10th.

There will be a workshop on "A Plant Collections Scheme for New Zealand" to be held in the Horticultural Centre of the Hamilton Gardens on Friday October 13th - see elsewhere in the newsletter. For more information, contact Mike Oates, Deputy-Chairman of the RNZIH National Executive, PO Box 11-379, Wellington.

Report of the Historic Places Legislation Review Working Group

The Report of the Historic Places Legislation Review Working Group was made public in early August. Amongst its recommendations were:

1. The definition of an historic place to be 'a place, building or structure identified by the Trust as belonging to the cultural heritage of New Zealand, and of aesthetic, archaeological, architectural, cultural, historical, scientific, social, spiritual, technological or traditional significance.'
2. That the assessment system of historic places should result in assessments of national, regional and local significance.
3. That a Register of Historic Places be formed and administered by the central agency (Historic Places Trust)
4. That appropriate provisions be included in the new resource management planning legislation to give status to the Register in planning processes.

There was brief mention in the report of trees and gardens:

'...support was expressed for extending the scope of the term "historic place" to notable and historic trees, gardens and landscapes. There were some particularly helpful submissions dealing with these aspects, which deserve detailed attention in drafting new legislation and in policy formation afterwards.'

A PLANT COLLECTIONS SCHEME FOR NEW ZEALAND

In New Zealand, there is an urgent need to co-ordinate our plant conservation efforts. While there are institutions and individuals working very effectively in this area, there is no co-ordinated strategy to ensure that duplication and poor coverage are avoided, with expertise and resources available where they are needed. A Plant Collections Scheme needs to be established to cover both public and private plant collections. With such a scheme national standards for the development and maintenance of collections would be developed along with a database of all collections and their contents.

The main reasons for establishing plant collections are:

1. To retain plants in cultivation regardless of their demand in the trade.
2. To make it possible for keen gardeners to obtain plants that are otherwise unavailable. This may

PLANT COLLECTIONS - COMMENTS ON THEIR IMPORTANCE IN A BOTANIC GARDEN

*MJ Reece, Curator, Dunedin Botanic
Gardens*

(Notes taken from an introductory talk for a session at the RNZIH Conference, 1989)

Botanic Gardens provide a scientific, educational and recreational facility. Plant collections are the basis of Botanic Gardens and ideally should be as comprehensive and aesthetically pleasing as resources allow. Collections are the chosen means of organising plants into associations based upon identifiable criteria, or themes. Presentation of plants in this way stimulates use of the Garden as an educational resource. An analogy that can be applied is that of the dictionary which contains a word which must be found. The search will be tedious and frustrating if the words are not organised in some way. The alphabet serves to avoid a long search, and organised plant collections can save long hours and miles of walking for the student.

Themes commonly used are generic, geographical, ethnic, economic, morphological etc., etc. The possibilities are numerous, and imaginative, innovative themes are those that create most human interest and consequent educational value. Inevitably, successful themes are those that are well presented with display impact. Two basic requirements must always be met though, they are-

- (i) Interpretation - to explain why plants are grouped in the manner presented and to provide specific plant information.
- (ii) Documentation - to record acquisitions and provide details of identity, provenance, propagation, location etc. This data is essential for gene bank operation, dissemination of material, development of propagation programmes etc. The Botanic Garden Conservation Secretariat's International Transfer Format provides a global structure for such records.

In New Zealand there has been comment and debate over the years concerning the desirability of establishing a "National Botanic Garden". I would suggest that the range of climatic conditions encountered throughout this country are not typified by any one location. The present location of Botanic Gardens would allow a much more comprehensive exploration of opportunities for development of plant collections than any single site. Surely what is required is a "national strategy" for such collections

involve the collection holder co-operating with a nursery to make plants available to gardeners.

3. For research use by horticulturists and botanists. For this to occur the collections must be well documented and comprehensive. Collections also assist in the correct naming of plants, especially cultivars.
4. To retain in cultivation, species that are rare and endangered in the wild.

At the RNZIH Conference in Tauranga, one of the sessions was devoted to this topic. Two of the papers presented are published below. The final paper was given by Mike Oates, and outlined a proposal for a New Zealand Plant Collections Scheme.

The first stage in this proposal takes place in Hamilton next month, with a one-day workshop to look in detail at the establishment of such a scheme. Key note speaker at the workshop will be Tony Lowe, the General Secretary of the National Council for the

to be established, documented and interpreted as a national resource.

The NCCPG format (UK), is proving to be a most successful model for such a national strategy. It harnesses commercial, public and private expertise and facilities to create a unified network of documented and accessible collections throughout Great Britain.

Botanic Gardens fit readily within the scope of such a scheme and I am sure that the proposal to be outlined by Mike Oates will ensure that this is the case in New Zealand. Botanic Gardens could, with some resource assistance, provide input the establishment of documentation criteria and other technical services.

Exploring the "local interest" themes, using imaginative interpretive and display techniques and participating in a national plant collections scheme are all complementary targets for our Botanic Gardens.

Valuable, key steps toward fulfilling their functions in a global sense whilst serving the communities which fund them, and ultimately benefit from their development as national assets.

THE HERB FEDERATION OF NEW ZEALAND PLANT COLLECTIONS SCHEME

Bunny Rathbone

The Herb Federation is a group comprising individual members and Herb Societies who are committed to promoting greater interest in, and appreciation of, the value of herbs amongst the general public, and promoting interchange of information from all sources of interest, within and beyond New Zealand, amongst its members.

After the first Conference of the Herb Federation of New Zealand held in November 1987 in Auckland, a Plant Conservation Committee was formed whose purpose was to co-ordinate the various single plant genera collections of Federation members.

These collections are of monardas, salvias, lavenders, thymes, artemisias and oreganums. The emphasis of the collections is on herbs to serve as national reference collections for New Zealand.

We realise that we have a unique opportunity in New Zealand to conserve plants in an environment which is still relatively clean compared with say Britain and Europe, where pollution is high and the risk of nuclear disaster is ever present.

Having studied information on national plant collections formed in Britain under the national Council for the Conservation of Plants and Gardens

(NCCPG) the following points on making collections seem relevant:

Conservation of Plants and Gardens (NCCPG) in Britain. The NCCPG is an independent charity based at the RHS garden at Wisley and is involved with the conservation of species, hybrids and cultivars growing in British and Irish gardens. Dr David Given form Botany Division DSIR will also be speaking. Dr Given has been involved for many years in the conservation of rare and endangered New Zealand plants.

The workshop takes place in the Horticultural Centre of the Hamilton Gardens on Friday October 13th. For more information please contact Mike Oates, Deputy-Chairman of the RNZIH National Executive, PO Box 11-379, Wellington.

(NCCPG) the following points on making collections seem relevant:

1. Each collection to be generic with all available species banked onto one collection whether herbal or not.
2. Each collection to serve as a National Reference Collection for new Zealand with comprehensive records maintained.
3. Conditions of access, cultivation and guardianship are laid down between the Herb Federation and the custodian of the collection.
4. Each collection should be situated in a garden open to the public at some time.
5. Choice of an area suitable for genus cultural requirements.
6. Choice of a suitable garden where the plants can be guaranteed correct horticultural care and protection, e.g. a Botanic Garden or a well established and maintained private or public garden.
7. Establishment of duplicate collections as a safeguard to the foibles of climatic disasters or human error.
8. Investigation of plant material as to its authenticity.
9. When plants are donated to the collection they remain with it, with only seed or cuttings of those plants being made available for propagation on request.
10. A plant exchange using plants propagated from those in the collection could be set up between herb societies and other interested groups.

If the Herb Foundation has members that are willing to devote time to making collections then there are probably many interested gardeners all over New Zealand also making generic collections. Some organization is needed to set standards for collections and to store data as well as encouraging the private collector to make worthwhile plant collections. An organization similar to the NCCPG could be the answer. Publicising the existence of collections and helping with access to the collections could be valuable tasks to perform as well.

With so many plants being put into the collections some form of record keeping needs to be decided upon. The basis of the records should contain the source, a botanical description, the location and cultivation requirements and propagation details. A photograph and herbarium sheet would complete the record. The NCCPG uses a card index produced by the international Dendrology Society.

Records should be kept by the collector and continually updated. Somewhere a central body has to keep copies of all the records of the collections as a safeguard including the records for the dispersal of plant material.

PLANT COLLECTIONS WORKSHOP

The RNZIH and the Horticultural Education Centre of the Waikato Polytechnic are convening a workshop to investigate the establishment of a National Plant Collections Scheme. Such a scheme would cover both public and private plant collections and would develop national standards for the development and maintenance of collections, along with a database of all collections and their contents.

Guest speaker at the workshop will be Tony Lowe, the General Secretary to the National Council for the Conservation of Plants and Gardens (NCCPG) in Britain. The NCCPG is an independent charity based at the RHS Garden at Wisley, and is involved with the conservation of species, hybrids and cultivars growing in British and Irish gardens. The NCCPG co-ordinates a National Collections Scheme with over 400 single genera collections currently registered. Tony Lowe's visit has been made possible through the generous assistance of The British Council.

The workshop is aimed at those people in the horticultural and botanical fields with an interest and/or involvement in plant conservation, be it garden plants or threatened New Zealand plants. It will be very much a working session with opportunities for full participation from the group.

For registration please contact The Registration Secretary, Horticultural Education Centre, Waikato Polytechnic, Private Bag 3036, Hamilton.

Notes from the District Councils . . .

AUCKLAND DISTRICT COUNCIL

Newsletter, August 1989

Red, white and blue

The New Zealand Nurserymen's Association is promoting three plants for next year's Sesquicentennial and the Commonwealth Games.

RED is Begonia 'Celebration Red' which is reportedly the most prolific flowering red begonia ever trialled at the ARA Botanic Gardens - even better it is said to be "abuse tolerant".

WHITE is Petunia 'Celebration White' which was selected for its rain tolerance (good for the Auckland summer!)

BLUE is Salvia 'Celebration Blue' with deep rich violet blue flowers. It is a specially selected, compact-growing salvia which may survive for several years.

Coming Events

"RENAISSANCE GARDENS AND SCULPTURE" Dawne Pearce, MONDAY 2 OCTOBER Upstairs Reception Suite, Old Government House, Waterloo Quadrant, 7.30pm.

AUCKLAND GARDEN FESTIVAL
Ellerslie, 2-5 November

VISIT TO KAWAU ISLAND
Saturday 9 December. Visit to Mansion House and inspection of Grey's plantings.

CANTERBURY SECTION

The Botanical Ramble at Victoria Park, which was to be held on 26th August, was cancelled due to inclement weather; this event will be held in the new year.

A bus has been booked for the trip to Castle Hill & Craigieburn Forest Park on Saturday October 14th. The day will include a visit to the Buttercup Reserve, to see the endangered Ranunculus in flower, and to learn of the problems associated with managing these areas. A ranger from Craigieburn will address the group during its time there. Transport is by bus, cost \$15 perhead. Payment and reservations must reach the Secretary by September 30th. PH ED Moyle 588-914.

WELLINGTON DISTRICT COUNCIL

Newsletter, September 1989

Events over the past three months have included: a pruning demonstration at Pukerua Bay, a lecture series in co-operation with the Institute of Landscape Architects - relating to Wellington's open spaces and urban design, and the AGM.

Annual General Meeting

The Wellington District Council's AGM was held on July 3rd. After the official business of the meeting, there was an interesting address from Rachael Smith of the Meteorological Office on the "Greenhouse Effect" and its implications for the Wellington Region.

The earth's atmosphere works a bit like a greenhouse - sunlight warms the earth's surface and in turn warmth is radiated back in to the atmosphere. Normally most of this heat escapes through the atmosphere. However, an increase of the "greenhouse gases" - water, carbon dioxide, methane, CFC's and nitrous oxide - form a reflective layer that traps heat, so increasing gradually the temperature of the atmosphere. Although this "greenhouse effect" is not a proven scientific fact, we shouldn't ignore the signs. The earth's atmosphere has warmed 0.5 degree C in the last 100 years.

The likely effects of a continued warming are a rise of temperature of 1.5 to 3 degrees, more frost free days, higher snowlines, perhaps more rain (falling on about the same number of days as now), a possible decrease in strong wind, but a chance of more cyclone Bola type weather. So what does this mean for us? We can expect longer growing seasons, crops maturing faster, a decrease in winter chilling (= less reliable pip and stone fruit cropping), and an increase in the mild-climate plants we can grow.

Several points were discussed after the address. One interesting one concerned some of our endangered plant species. In a slow climatic change plants could migrate gradually, but it is likely the climate changes will be too rapid for the plants to cope. They may need some help from us.

Coming Events

On Sunday October 8th you are invited to join Chris Close at Percy's Reserve, Petone - further information phone Donn Escourt 699-341.

Friends of the Christchurch Botanic Gardens

An inaugural meeting of the Friends of the Christchurch Botanic Gardens will take place on Monday 6th November at 8.00pm. A presentation will include discussion on the Botanic Gardens Management Plan, as well as the aims and objectives of the new Society. Anyone interested is encouraged to attend. There will be election of officers on this occasion. The venue is the Information Centre at the Botanic Gardens.

R.N.Z.I.H. PUBLICATIONS

Members are reminded of the various publications that the Institute has available. Don't miss out on these valuable items:

"FLOWERS FOR SHOWS"

A 'must' for everyone involved in flower shows, whether as a judge or exhibitor. Cost \$10.00. Quantity discounts available on request.

ANNUAL JOURNALS

Journals 1,3,4,6,7,8,11 \$5 each }
Journal 14 \$8 } add \$1 (p&p)
Journal 16 (1989) \$12 }

"HORTICULTURE: THE CAREER FOR YOU?"

This very valuable book for people contemplating a career in horticulture has just been revised. Copies have been sent free of charge to all secondary schools in New Zealand. Cost \$5.50

The above publications are available from the RNZIH, Box 12, Lincoln College, Canterbury.

"A TREE EVALUATION METHOD FOR NEW ZEALAND"

The publication provides a national method of assessing trees for listing on District Schemes. The scoring method has been adapted to New Zealand conditions so that trees that are notable on a national basis will be recognised. "A Tree Evaluation Method" costs \$25 for one copy or \$20 for orders of more than one. Copies are available from the Notable Trees Committee, PO Box 11-379, Wellington.

GUIDANCE ON USE AND HANDLING OF CHEMICALS

Recognition of the need for better laws and procedures governing the safe handling, use, storage, and disposal of chemicals was identified in the report *Pollution and Hazardous Substances Management*, published by the Ministry for the Environment last November.

The report was prepared by an inter-agency coordinating committee convened by the Secretary for the Environment, and its recommendations have been incorporated in the Resource Management Law Reform exercise.

Recognising the urgent need for all people responsible for the use, manufacture, formulation, and importation of chemicals to implement effective systems for the management of the chemicals, the Department of Health has produced Guidance notes for the Completion of a *Material Safety Data Sheet*.

Free copies of the notes have been distributed by the Chemical Industry Council, Area Health Boards, and other organizations.

Additional copies are available on request from Area Health Boards, or from the Department of Health, Head Office, PO Box 5013, Wellington.

Letter to the Editor

A competent, Italian horticulturist seeks work in New Zealand for three months or so over the coming summer - gardens, botanic gardens, landscaping, orchard or other. Please contact the Editor, 110 Geraldine St, Christchurch if you can help.

THE RNZIH NOTABLE TREES SCHEME

This scheme aims to protect trees of national importance by recording them on a national register and labelling them with identification plaques. There are currently over 1000 trees listed on the national register.

The scheme is administered by the Notable Trees Committee, which is based in Wellington. This small committee meets monthly and comprises Chris Ferkins (Chairman), Ron Flook (Convenor), Jessica Holden (Secretary), Wilf Watson (Tree Registrar) and Donal Duthie. One of the responsibilities of the Committee is to approve the registration of trees recommended by Tree Registration Officers (T.R.O.'s). T.R.O.'s are located in most parts of New Zealand and are volunteers who assess local trees and where necessary, recommend them for registration. If you know of any trees in your area that you feel should be on the register, contact your local T.R.O.

In future newsletters, we plan to describe more of the Committee's work and also to include descriptions of recently registered trees. We start with information on a recently registered tree in Marlborough.

"MANNA GUMS grow taller in Australia but few, if any, are bigger in girth than the tree which grow near TM Walsh's Fairhall homestead, Woodbourne, Marlborough." So writes SW Burstall in "Great Trees of New Zealand", Planted before 1860 by Henry Godfrey, an early (1840's) Wairau farmer and politician, this *Eucalyptus viminalis* with its present girth b.h. of 10200mm has already doubled the best recorded by Hall, Johnson and Chippendale in their "Forest Trees of Australia".

Recorded by Tree Registration Officers Alby Elwood-Smith (Picton) and B. Soper (Blenheim), this is the third *E. viminalis* to be registered in Marlborough and New Zealand by the RNZIH Notable Trees Committee. A special plaque will be placed on or near the tree later this year.

Notable Trees Scheme, PO Box 11-379, Wellington

Tree Registration Officers

WHANGAREI Mrs EK Reynolds, AHRH 42A Anzac Road Whangarei	LEVIN Messrs N Nicely & C Kidd Levin Borough Council Private Bag Levin
AUCKLAND Mr Ed Chignell 'The Ark' RD 3 Albany Auckland	HASTINGS Mr Thomas Looij Parks and Recreation Private Bag Hastings
Mr GR Donaldson Attwood Road Paremoremo RD 3 Albany Auckland	OTAGO Mr Frank Buddingh PO Box 8032 Dunedin
BAY OF PLENTY Mr Rick W Hart c/- Ministry of Works PO Box 646 Tauranga	SOUTHLAND Mr David Baird 14 Lowe Street Invercargill
WANGANUI Messrs Mark Daniels, Phil Thomsen & Paul McDonald c/- 31 Ikitara Road Wanganui	MARLBOROUGH Mr Alby Elwood-Smith 46 Hampden St Picton
KAPITI Mr Mike Cardiff Reserves Superintendent Kapiti Borough Council Private Bag Papapararamu	Mr Brian Soper 36 Colemans Road Blenheim

RNZIH CONFERENCE 1990

4th - 6th May

"NELSON THE DIVERSE DISTRICT"

The 1990 Conference will be held at Nelson Girl's College where accommodation will be available at reasonable cost (see next newsletter for enrolment form and final details).

AGENDA

4th Executive meeting, official opening and key note address

5th AGM

Notable & Historic Trees

Bus trip to places of horticultural interest

Banks Lecture - Mr Guy Salmon

6th Three key note addresses

Bus trips to a) organic farm OR

b) Riwaka Research Station - New Crops

NEW SERVICE OFFERED

Horticulturists and gardeners are always looking for new places to purchase plants. Mail order nurseries are offering a wide range of plants not always found in garden centres. Now there is a computer listing of many of the mail order nurseries.

Over 85 mail order nurseries in New Zealand are listed and the list is constantly being updated. For only \$3.00 (includes postage) you can receive your own copy.

Write to Alan Jolliffe, 140 Kings Cres, Lower Hutt.

Diverse Public Views on Pesticides Report

Public submissions on pesticide use in New Zealand show a wide range of opinion.

At one end of the spectrum are farmers and exporters, who feel the continued use of pesticides is essential to the farming economy. At the other are health and environment groups, who feel that the use of chemical pesticides should be greatly restricted, if not banned.

These views are outlined in the Summary of Submissions on the Lincoln College Report 'Pesticides: Issues and Options for New Zealand' - an unpublished report, but those who are interested in obtaining more detail can obtain a photocopy from the Ministry for \$25.00.

NOTABLE TREES COMMITTEE NEEDS HELP

This Committee is based in Wellington and meets monthly to run the RNZIH Notable Trees Scheme. They are a national committee co-ordinating a team of voluntary Tree Registration Officers (TRO's) throughout New Zealand. The Committee is in need of volunteers to help them in their work. If you are interested in trees, and could give a little time to attend meetings or help in other ways, then give Ron Flook or Chris Ferkins a ring. Ron can be contacted on WGN 859-315 (daytime) and Chris on 678-459 (evenings). The Committee does valuable work and needs help.

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