

NEW ZEALAND LIVE PLANT COLLECTIONS GROWING OVERSEAS QUESTIONNAIRE FOR GROWERS

We are currently contacting curators and managers of New Zealand plant collections to find out what pests and diseases they have encountered while growing these plants overseas. This will help us to find out what pests may be attacking overseas New Zealand plants which could potentially come into New Zealand and damage our native flora and fauna. We can then be better prepared for these species at our borders. This information will contribute to a NZ research programme **BETTER BORDER BIOSECURITY**.

We would very much appreciate your feedback on the subject. Please help us by filling in and returning the questionnaire below. Thank you very much for your cooperation.

1. Where is the NZ plant collection located?

(Country, province, state, county, nearest town/address)

2. What size area does the NZ plant collection or specimen plants cover?

(acres/ hectares/ square metres)

3. Approximately how many NZ plant species make up the collection?

4. Origin of New Zealand plant material:

- a. New Zealand
- b. Elsewhere (if so please specify country(ies))
- c. Did the material originate from
 - (i) seed
 - (ii) cuttings
 - (iii) plants in potting mix
 - (iv) plants in soil

5. Can you briefly describe your environmental conditions?

- a) Mean annual rainfall
- b) Soil type
- c) Mean annual maximum and minimum temperatures

6. Do you have a printed or electronic catalogue or list of plant species names which are currently grown that you could make available to us?

7. Do you specialise in any particular families of plants?

(please note if it is a National Collection)

8. Have you noticed any invertebrates on the NZ plants? If so, please describe below:

(please copy this part of the form for each relevant plant species)

a) Plant species:

b) Pest species:

(If unknown, then common name e.g. aphid, mealybug, slug, nematodes etc.)

c) Part of plant damaged:

(leaves, roots, flowers etc.)

d) Description of damage:

e) Severity:

(minor, moderate, severe, lethal)

9. Have you noticed any diseases on the NZ plants? If so, please describe below:

(please copy this part of the form for each relevant plant species)

a) Plant species:

b) Disease species:

(If unknown, then common name e.g. powdery mildew, fungal, bacterial, viral, phytoplasma or combinations etc.)

c) Part of plant affected:

(leaves, roots, flowers etc.)

d) Description of damage:

(leaf spotting, leaf mosaic, wilting, vascular discoloration etc.)

e) Severity:

(minor, moderate, severe, lethal)

10. a) What has been the most devastating pest or disease problem you have already encountered to date and on which plant(s)?

b) What would be the most devastating pest or disease problem you would never wish to encounter and on which plant(s)?

11. Have you ever sent samples to organisations for identification and/or diagnosis? (please explain what you sent, why and to whom, and what the diagnosis was)

12. Other comments that you think might be useful to us?

(e.g. has any research published or unpublished been carried out on your collection especially pest and disease-related; does your collection have AGM status; could you mention any other NZ plant collections you know of)

13. Your contact details:

Name:

Title:

Address:

Telephone:

Fax:

Email:

Please email the completed form to:

karen.cousins@agresearch.co.nz

Or print the form and mail to:

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