

Biosecurity research at the Allan Herbarium



Rob Smissen



**Harry Howard Barton Allan
(1882–1957)**



The herbarium – and its use for biosecurity

Abutilon theophrasti – velvet leaf

2016, Amberly, Lance Smith



1968, Lincoln, J. Davidson



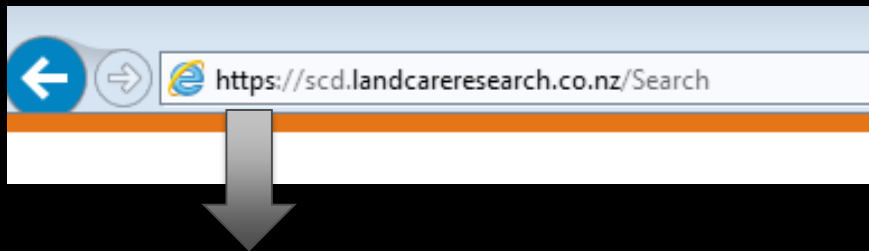


A herbarium is a collection of preserved plant specimens





... but we are so much more!



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CHR Abuldon theophrasti

43 records

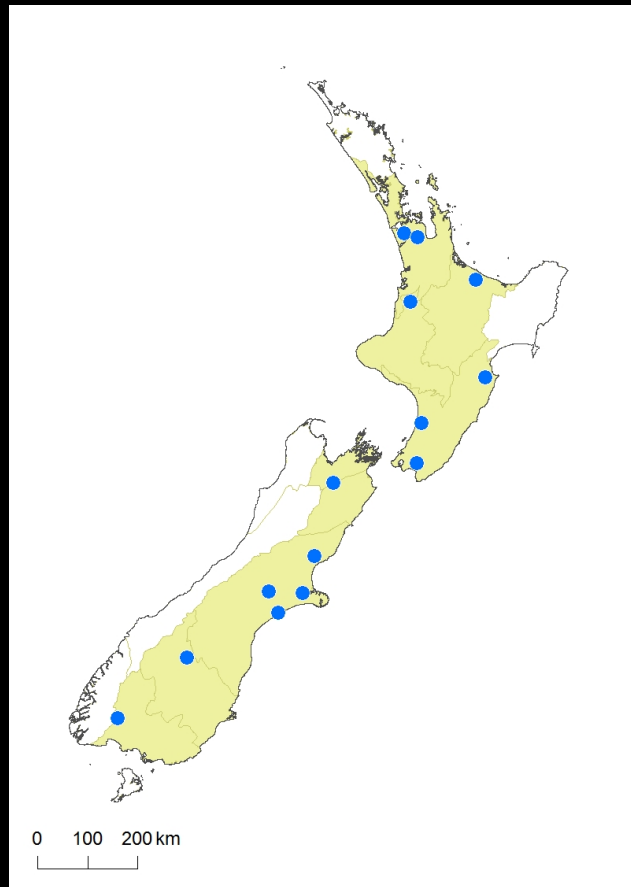
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- Preferred Name**
 - Abuldon theophrasti Medik. (43)
- Taxonomic Name**
 - Abuldon theophrasti Medik. (43)
- Determiner**
 - Schlegelw. (11)
 - Schlegelw. (11)
- Type of Identification**
 - Determination (43)
- Confidence of Identification**
 - Curtain (43)
- Division**
 - Magnoliophyta (2)
- Phylum**
 - Spermatophyta (43)
- Class**
 - Magnoliopsida (43)
- Order**
 - Malvales (43)
- Family**
 - Malvaceae (43)
- Genus**
 - Abuldon (43)

CHR	Abuldon theophrasti Medik.
CHR 640300 A	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: Longene Station, 222 Teburo Road, Taranaki, Central Otago
CHR 640300 C	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: Longene Station, 222 Teburo Road, Taranaki, Central Otago
CHR 640300 B	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: Longene Station, 222 Teburo Road, Taranaki, Central Otago
CHR 354462	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: Arahua, Southland
CHR 640304 A	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: 122 8th Harding Road, Marlborough
CHR 640304 B	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: 122 8th Harding Road, Marlborough
CHR 640305 B	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: 1272 Beach Road East, Ashburton
CHR 640305 A	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: 1272 Beach Road East, Ashburton
CHR 640305 C	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: 1272 Beach Road East, Ashburton
CHR 640305 D	Abuldon theophrasti Medik. Data provider: CHR, Collection: Herbarium, Type of record: Sheet, Country: New Zealand, Locality: 1272 Beach Road East, Ashburton



New Zealand interactive keys



- Australasian liverwort and hornwort genera
- Grasses
- NPPA/Weeds key
- Cultivated pines (SCION)
- Native plants of schools and marae
- Coprosma
- Flowering plant genera
- Native orchids
- Ferns & conifers of Cass
- Key to plants and animals of the Styx Mill Reserve
- Weedy daisies of the South Pacific



Plant Identification service



Ines Schönberger

An interactive key to all willow species and hybrids both wild and in cultivation in New Zealand



David Glenny

Salix viminalis



Celastraceae (staff vine or bittersweet family)

*eFlora treatment
covering new taxa*



Euonymus europaeus –
European spindle



Maytenus boria –
Chilean Mayten



Euonymus europaeus –
European spindle



Jessie Prebble



Alismatales & Nymphaeales eFlora treatments



Cabomba



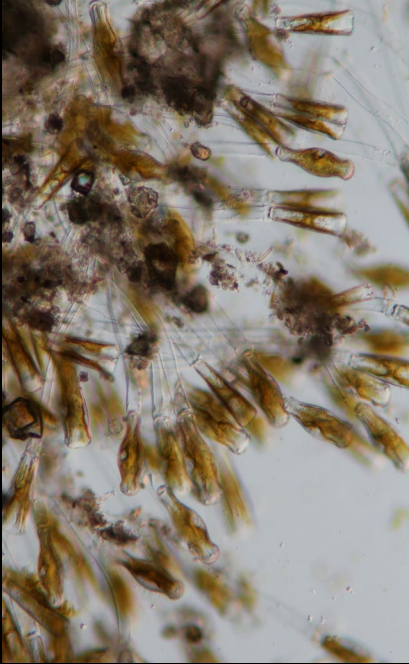
Sagittaria



Kerry Ford



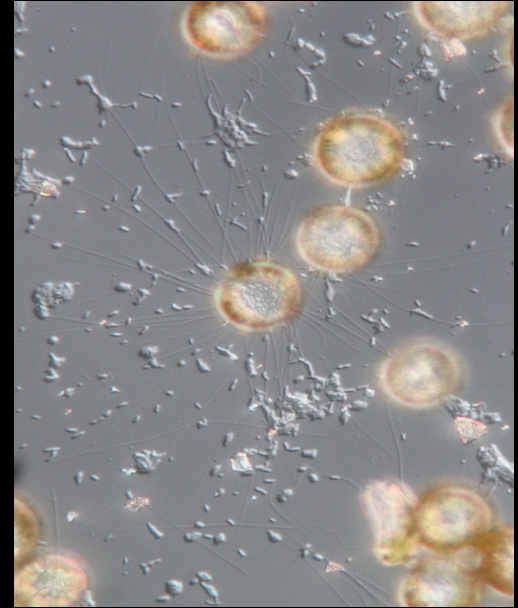
Invasive diatoms



Didymosphenia



Phil Novis



Lindavia



The Origin of Invasive Microorganisms Matters for Science, Policy, and Management: The Case of *Didymosphenia geminata*

BRAD W. TAYLOR AND MAX L. BOTHWELL

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ORIGINAL RESEARCH

WILEY Ecology and Evolution Open Access

Is *Didymosphenia geminata* an introduced species in New Zealand? Evidence from trends in water chemistry, and chloroplast DNA

Cathy Kilroy¹ | Phil Novis²





Other systematic and taxonomic research on NZ plants



Jersey cudweeds – critically endangered natives or cosmopolitan weeds?





The cultivated flora – weeds in waiting? Incubators of plant disease?

- We are hoping to ramp up work on documenting the tens of thousands of plants which are present only in cultivation.
- Crops, ornamentals, medicinal, forage plants ...
- Poorly documented
- Up to 70% of new weeds are garden escapes
- Four new escapes each year in Auckland alone



Murray Dawson