

Shining spleenwort – *Asplenium oblongifolium*

FROND



Small white scales on underside of frond, present all year.

SUCKING INSECT (Coccoidea) 384



Whitefly adults and white waxy areas with eggs on underside of frond, present all year.

SUCKING INSECT (Aleyrodidae) 494



Whitefly nymphs and puparia with white waxy areas on underside of frond, present all year.

SUCKING INSECT (Aleyrodidae) 494



White mines on upper side of frond, present all year.

FLY (Agromyzidae) 32

Other plant damage symptoms and invertebrates that may be seen LEAVES



* Twisted and distorted frond, grey aphids may be present on expanding frond, symptoms all year.

SUCKING INSECT (Aphididae) 991



Fern spores webbed together on the underside of frond and small holes in frond to upper side where small 'towers' may be constructed, probably present most of year.

MOTH (Gelechioidea) 583



Fern spores webbed together on the underside of frond. **No holes in frond.** Probably present all year.

MOTH (Gelechioidea) 861

Other host associations in the Plant-SyNZ database (September 2003)

No other host associations recorded in the database * = adventive (alien) species

New associations

The host associations illustrated and listed here are those known when this identification guide was compiled. New host associations are likely to be discovered. If invertebrates and/or plant damage are found that may be a new association, send specimens of the insects and plants to

Dr Nicholas Martin,
Crop & Food Research,

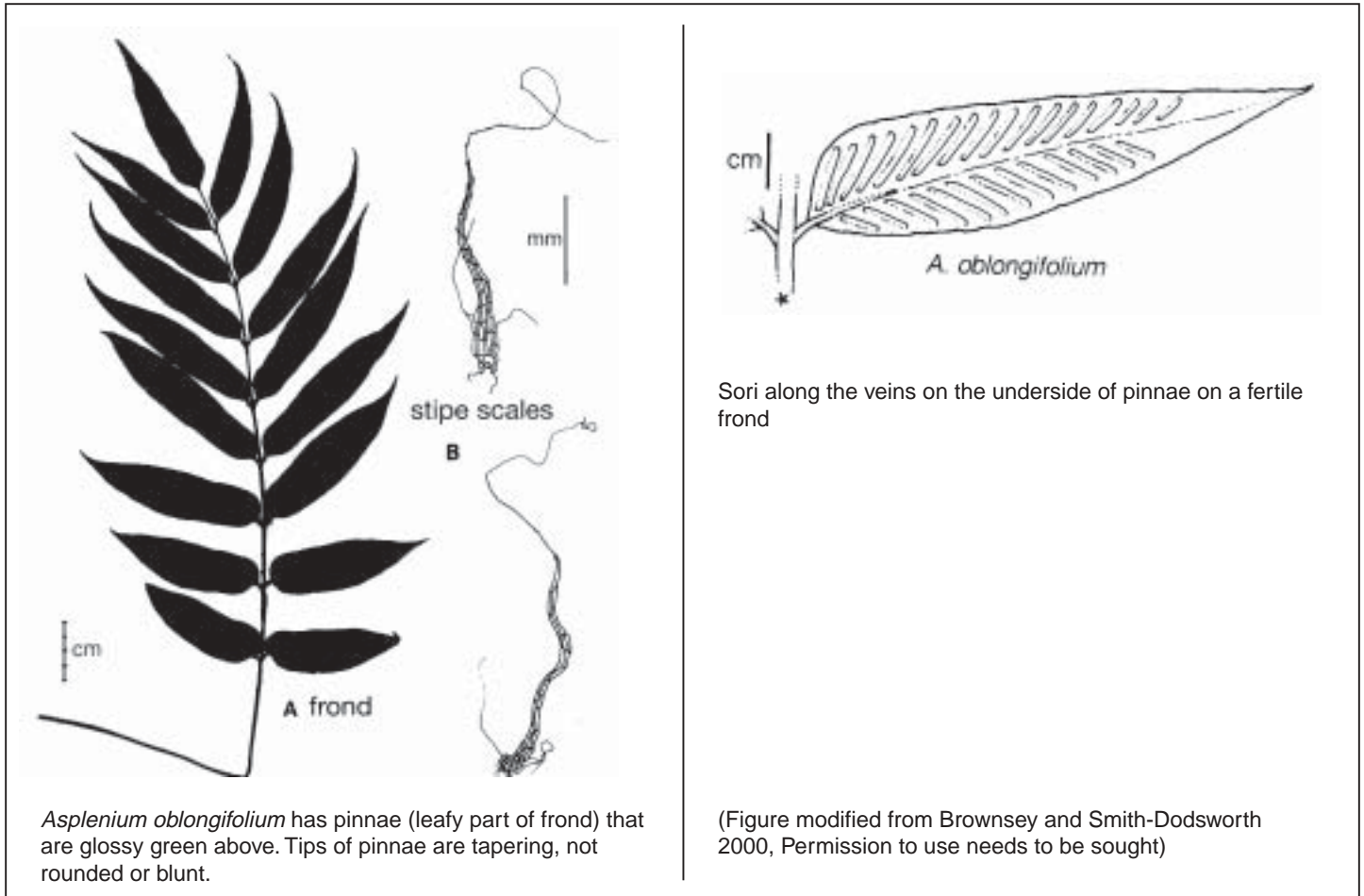
By post to:
Private Bag 92 169
Auckland

or Courier to:
Mount Albert Research Centre
120 Mt Albert Road
Auckland

If possible contact (0-9-815 4200 ext 7089, email: martinn@crop.cri.nz) before sending.

LEVEL OF EXPERTISE

This version is suitable for non-experts. A 10x hand lens is useful, but not essential to confirm the presence of some invertebrates. Versions of this identification guide that are suitable for experts (botanists and entomologists) and students are available. The identification guide and the accompanying recording sheets can be obtained from Dr Martin (see above) or from www.crop.cri.nz.



Identification of *Asplenium oblongifolium* Colenso (Aspleniaceae)

This information is provided on the assumption that the plant species in the habitat are known and that the species of interest needs to be distinguished from a short list of closely related species in the habitat being surveyed.

Information about herbivores associated with *Asplenium oblongifolium*

Separate information sheets will be produced about some of the invertebrate herbivores associated with each plant species. These will have pictures of the different life stages, more pictures of the damage to plants, and information about their life cycle and distribution in New Zealand. Information about natural enemies (parasites, pathogens and predators) will be included if known.