

Agricote Brassica

Seed treatment

Seed Treatment

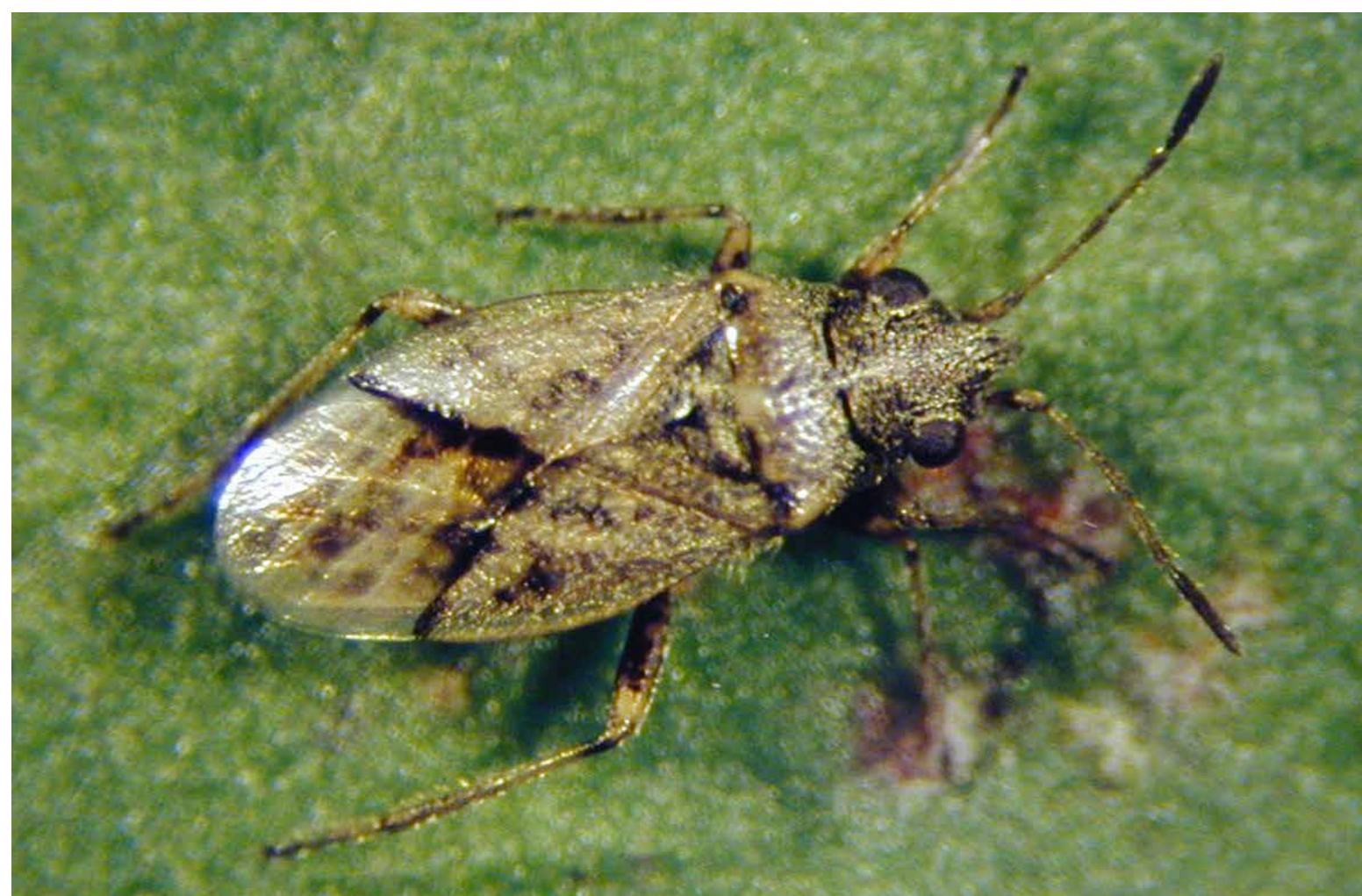


Agricote Brassica contains insecticide and fungicide, to help protect against *Nysius*, springtails, aphids, stem weevil and damping off diseases.

Establishment is a critical time for brassica crops because plant density determines potential yield, and it is the time plants are most vulnerable.

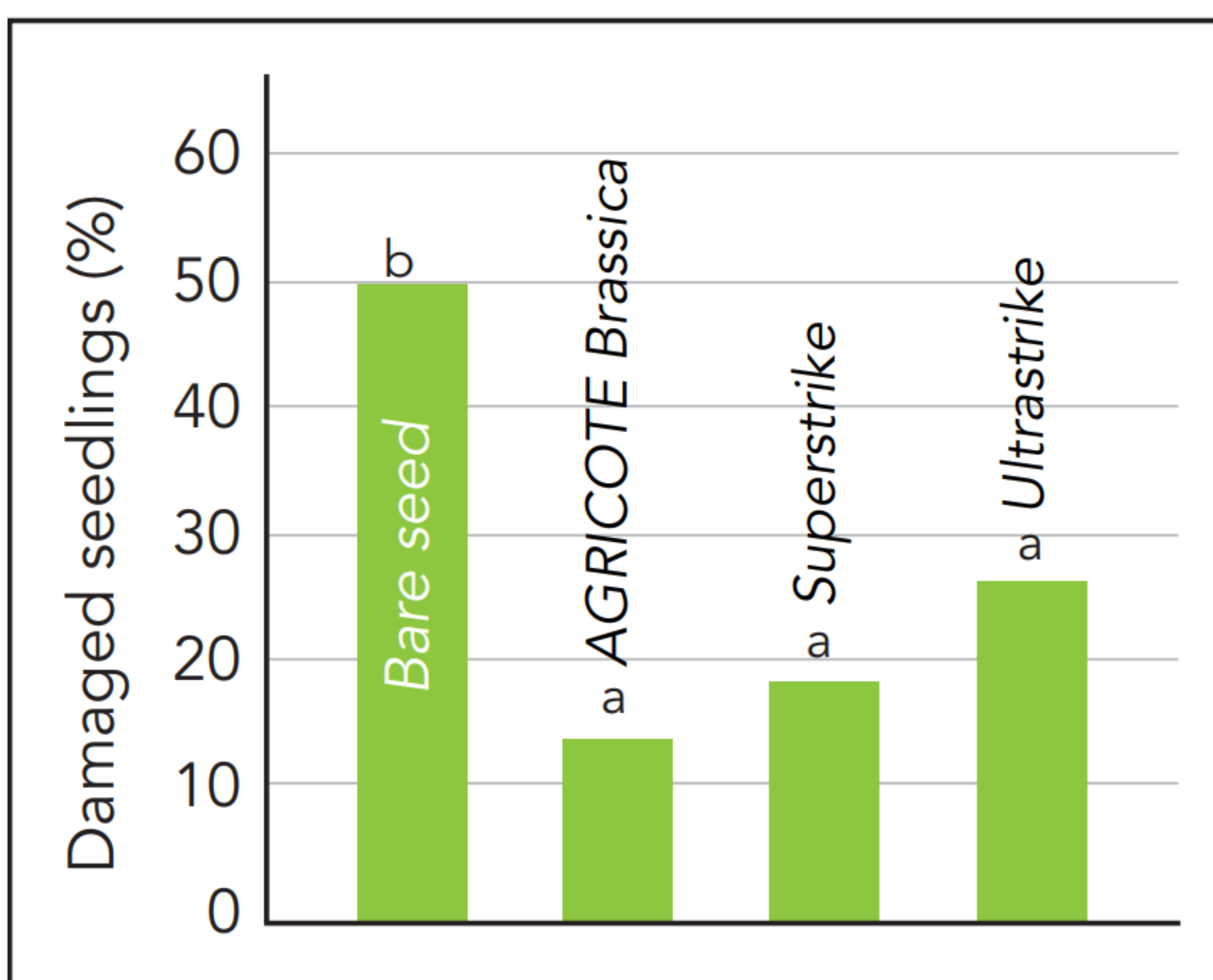
Nysius control

Agricote Brassica gives excellent control of *Nysius*. Data supporting this comes from a trial run by



AgResearch. *Dynamo* turnip seed was sown and *Nysius* were added when seedlings were just emerging, then again 7 days later.

Damaged seedlings after 2 separate 7 day periods of *Nysius* attack*



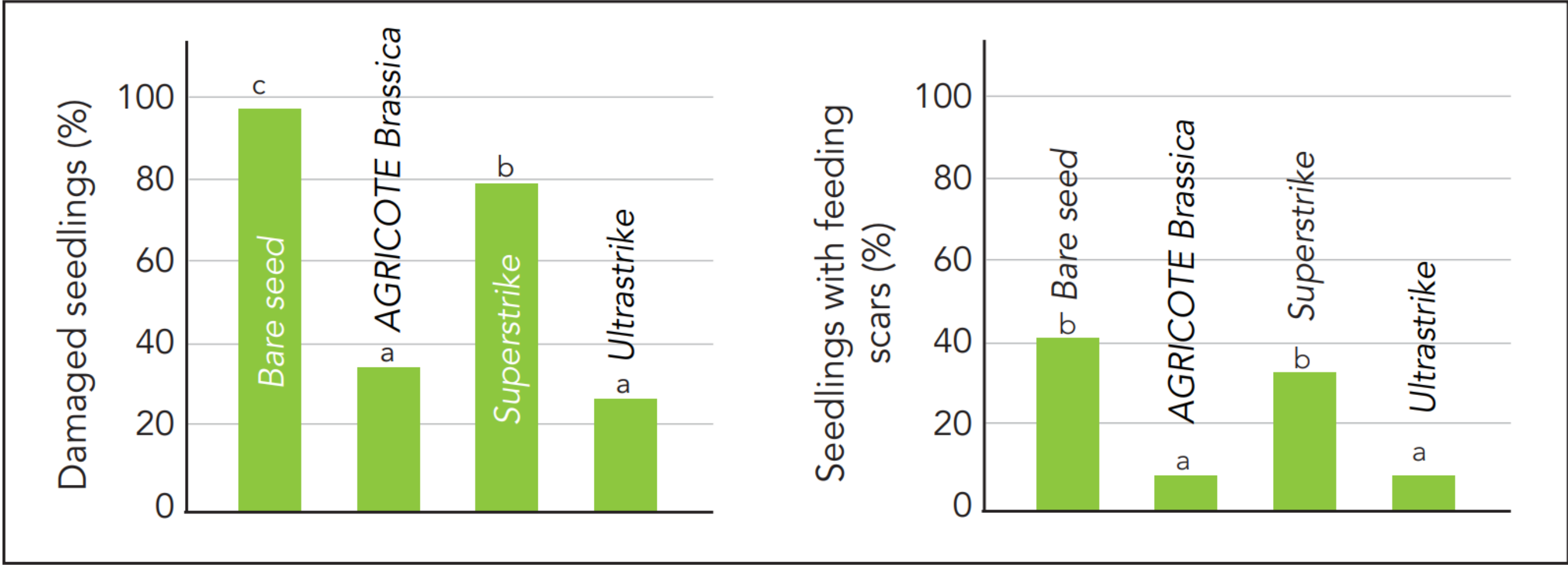
* Treatments with the same letter are not statistically different.

All three seed treatments tested gave very good control of *Nysius* damage compared to sowing bare seed (see graph). Under high insect pressure in this trial, *Agricote Brassica* greatly reduced the number of damaged plants from 50% (bare seed) down to only 11%.

Springtail control

Agricote Brassica gives excellent control of springtails. In an AgResearch trial *Dynamo* turnip seed was sown into pots and springtails were added when seedlings were just emerging (which is when most springtail damage occurs).

Damage and scarred seedlings after 7 days of springtail attack*



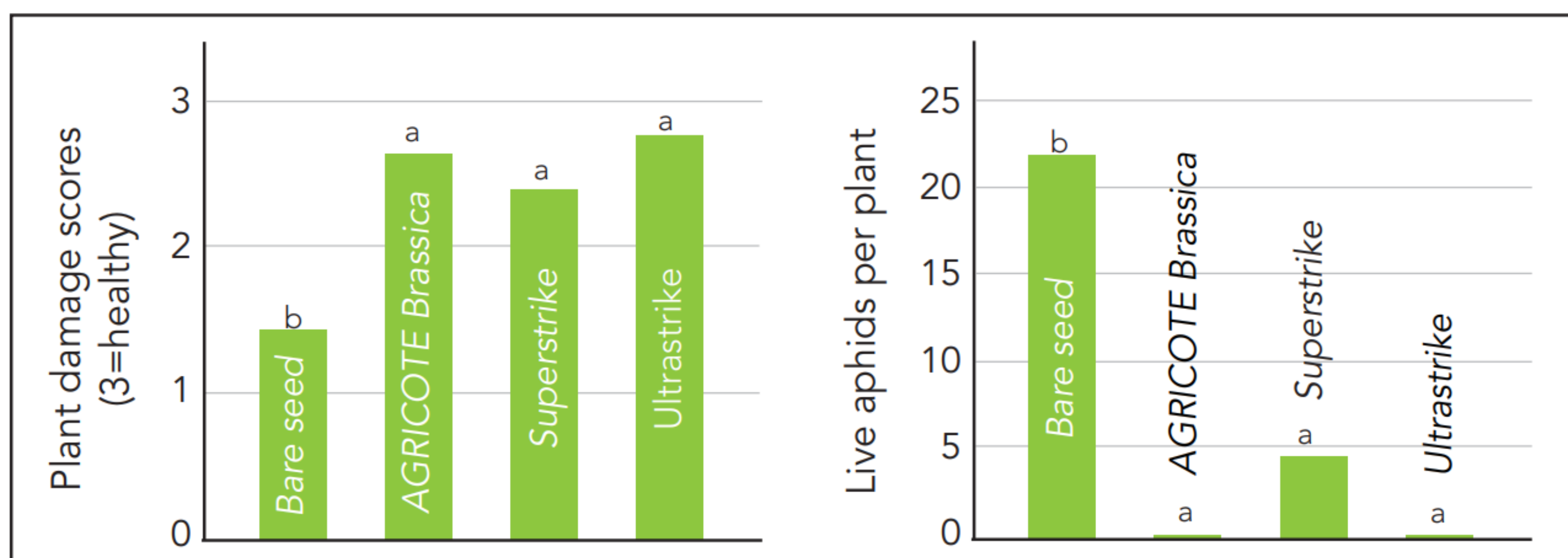
* Treatments with the same letter are not statistically different.

Results show *Agricote Brassica* provided a high level of springtail control. It greatly reduced the number of plants damaged from 98% (bare seed) down to 34%, and reduced the feeding scars from 41% (bare seed) down to 7%. Feeding scars can later result in stem break in kales or rapes.

Aphid control

Agricote Brassica gives seedlings excellent protection against aphids during establishment. In an AgResearch trial, *Dynamo* turnip seed was sown into pots. Twenty aphids were added to each pot 8, 15 and 22 days after emergence. At the end of the trial plants were visually scored for damage on a 1-3 scale.

Plant health scores and live aphid numbers after three separate 7 day periods of aphid attack*



* Treatments with the same letter are not statistically different; 20 aphids were put on each plant, however numbers increased on bare seed as aphids bred.

Combined results from the three aphid feeding periods show plants had little plant damage when *Agricote Brassica* was used. This treatment also killed all aphids.

Fungal pathogens

Agricote Brassica contains fungicide to protect establishing seedlings from ‘damping off’, a disease complex caused by soil-borne *Fusarium* and/or *Pythium* fungi in the North Island, and *Rhizoctonia* in the South Island. Damping off can lead to poor, patchy crop establishment.

These build up in successive crops, so are worse in second year or subsequent crops.

Newly sown brassica seedlings are most susceptible to damping off. Typically they wilt and die, showing small lesions at or below soil level. Plants may initially survive *Rhizoctonia*, but later may turn purple and die due to ‘wire stem’ damage.

Sowing rate

Agricote Brassica treatment results in a 5% weight increase. Normal sowing rates apply as a 5% reduction in the amount of seed sown is offset by the increased success in establishment.



Rape establishing with the help of *Agricote Brassica*.

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