

# Agricote Grass

## Seed treatment

### Seed Treatment



*Agricote Grass* contains insecticide and fungicide, to help prevent damage from Argentine stem weevil (ASW), black beetle, grass grub and damping off diseases. *Agricote Grass* is recommended where pests are a problem, because endophyte provides only limited protection for seedlings.

## Argentine stem weevil (ASW) control

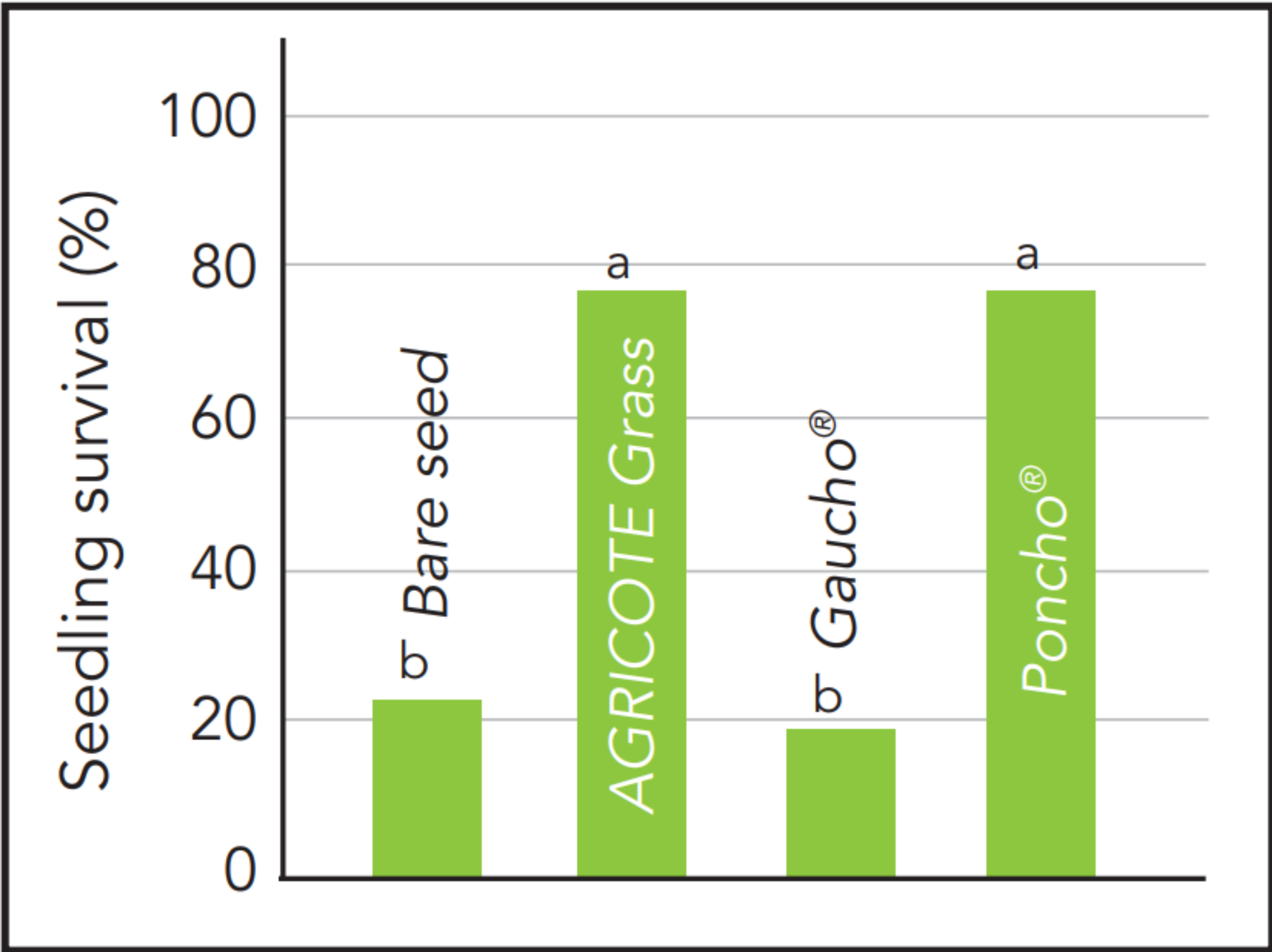
Adult ASW can be a major pest, particularly in grass to grass renewal or autumn sowing in dryland paddocks. In these cases, it is important to protect all grasses with seed treatment - annual, Italian, hybrid and perennial ryegrasses, cocksfoot and tall fescue.

In an AgResearch trial, ryegrass seedlings were exposed to adult ASW attack just as they emerged. The results (below) show that *Agricote Grass* and *Poncho* gave excellent control of ASW adult attack, significantly better than *Gaucha* or bare seed.



*Severe adult ASW damage in a newly sown ryegrass pasture.*

Ryegrass survival of ASW attack at seedling mergence\*



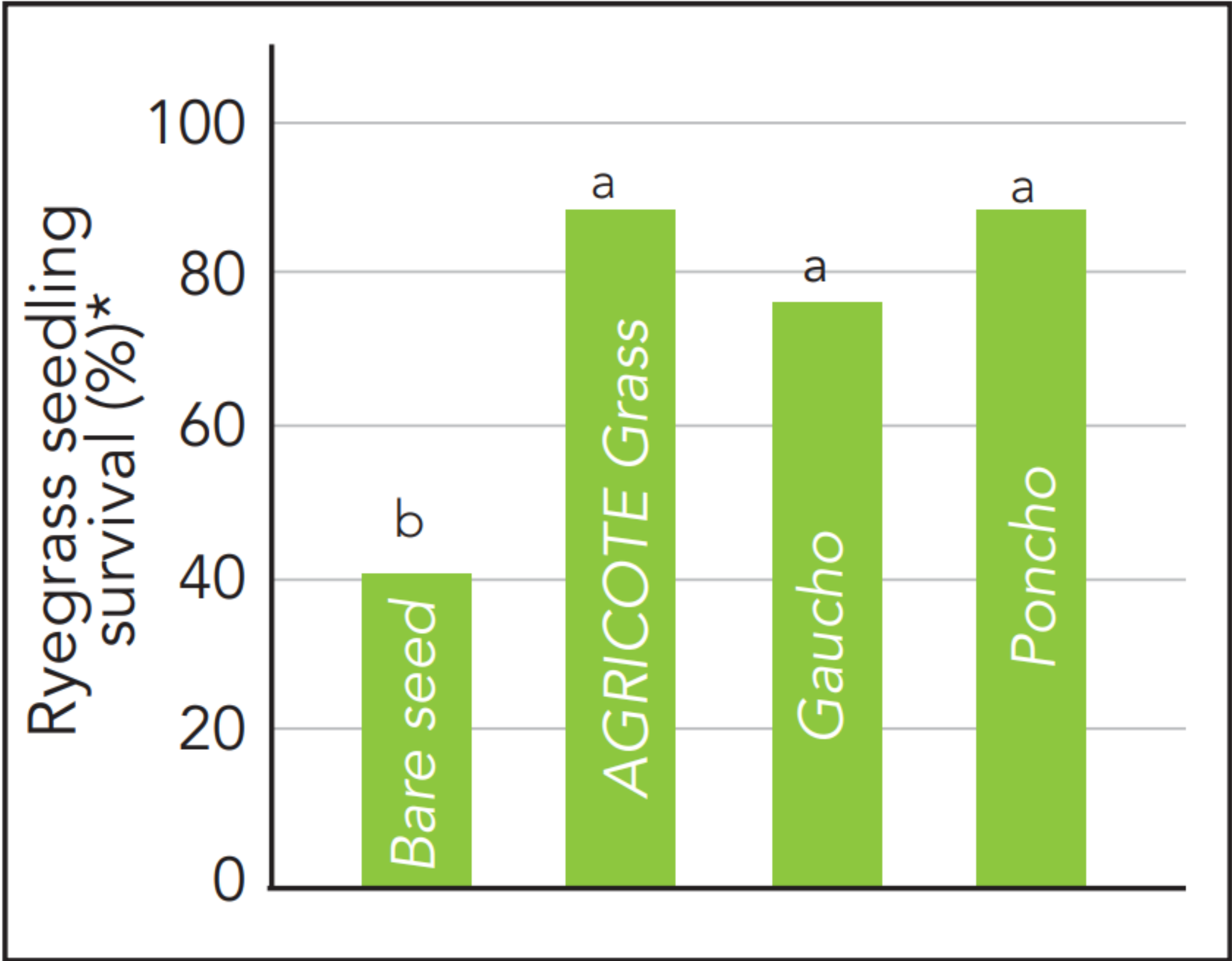
\* Treatments with the same letter are not statistically different.

Black beetle (BB) control

BB can badly affect establishment in the upper and coastal North Island, particularly in dry seasons.

In an AgResearch trial, ryegrass seedlings were exposed to a high level of pressure from adult BB. The results (right) show all three seed treatments gave excellent control of adult BB attack, significantly better than bare seed.

Ryegrass survival of BB attack at seedling emergence\*



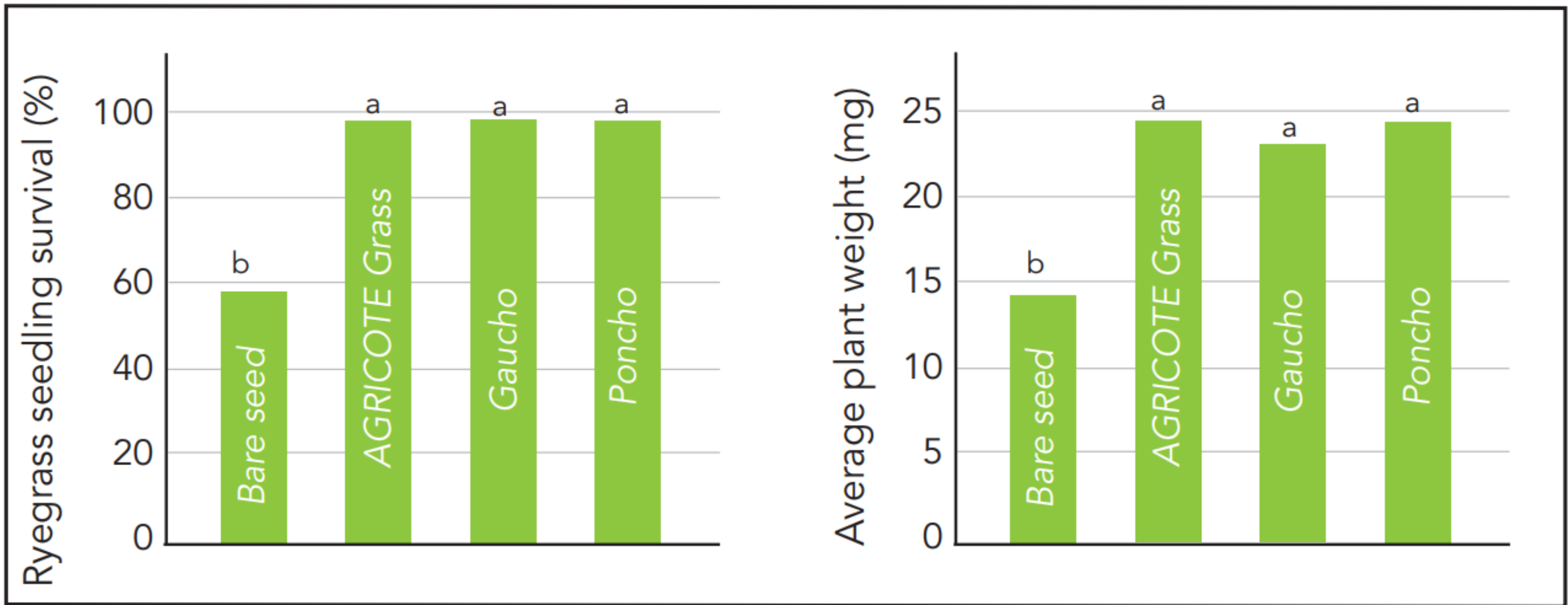
\* Treatments with the same letter are not statistically different.

Grass grub (GG) control

Agricote Grass gives excellent control of GG. In an AgResearch trial, ryegrass was sown into vials, and an actively feeding large grass grub larva (3rd instar) was placed into each vial when seedlings were just emerging, then again 7 days later, and 14 days

later. The results show all three seed treatments gave excellent control of GG larval attack, significantly better than bare seed.

### Ryegrass survival & plant size after three 7 day periods of GG attack\*



\* Treatments with the same letter are not statistically different.



Typical patchy pattern of grass grub damage in establishing pasture.

## Fungal pathogens

Agricote Grass contains fungicides that control the fungi responsible for ‘damping off’ (*Fusarium* and *Pythium*) which can kill seedlings during establishment.

These fungi are most active in autumn and winter, and attack plant tissue leaving lesions at or below ground level. Newly sown ryegrass is most susceptible to being killed by damping off. This can cause poor, patchy pasture establishment.

## Sowing rate

Agricote Grass has no effect on seed weight, so use normal sowing rates.

## Withholding period

A 42 day stock withholding period applies for new pasture sowings; 21 days when undersowing Agricote Grass into existing pasture.

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Poncho® is a registered trademark of BASF Corporation