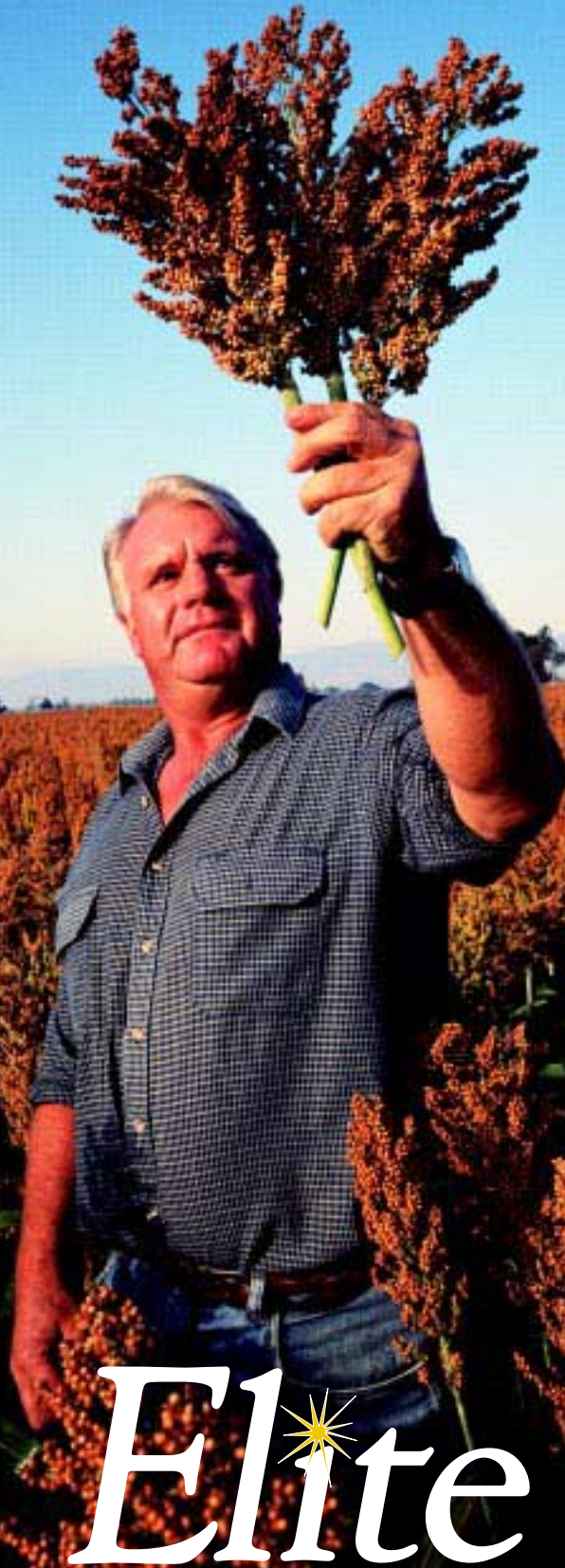


The best just got better



Elite

seed treatments from Pacific Seeds

The best just got better

The Elite brand of treated seed is fast becoming recognised as a dependable way for farmers to get the maximum return out of their investment in seed. Pacific Seeds varieties of grain sorghum and corn planting seed are the best in Australia. Providing our customers with Elite seed treatments on Pacific Seeds seed gives them the opportunity to make the most out of their planting dollar.

With the highest quality seed, most accurate method of treatment in Australia, and the most effective chemicals, Pacific Seeds Elite seed is setting the benchmark for superior performance throughout the cropping areas of Australia.

Success starts early

There is evidence that the true yield potential of a crop is established during the first few weeks after the seeds are sown. This is where Elite treated seed gives an edge. By protecting the seed and seedling in it's early stages of growth, crop growth is optimised and yield potential is maximised.

Elite seed utilises the latest developments in crop protection to defend against insect pests, whilst at the same time minimising people's and the environment's exposure to the chemicals.

Pacific Seeds is pleased to be offering this service to our growers, as it gives us an excellent opportunity to make the best grain sorghum and corn varieties EVEN BETTER.

Why should growers be using Elite seed over their current seed treatments?

Elite seed offers a number of advantages in a convenient, safe, high quality product:

- New generation insecticides with systemic action
- Only the highest quality seed is used
- The method of treatment is very accurate and effective
- The types of chemical used and their action are friendlier to the environment due to there being lower rates of active per ha.
- No handling or wastage of chemicals on farm or in agents stores - safety!
- Pacific Seeds provides a warranty on the product
- Pacific Seeds provides post treatment quality information (ie minimum germination)
- Friendly to beneficial insects
- Convenience
- Protection from day zero

What do the seed treatments (Cruiser, Gaucho, Concep II, Thiram) that Pacific Seeds applies to its sorghum and corn seed control?

Gaucho/Cruiser - insecticide active against soil insects(the main ones are listed below).

Concep II - seed safener which allows the soil to be treated with Dual/Primextra pre-emergent herbicides whilst having no effect on the sorghum seed. Stimulates the production of the enzyme within the plant that allows sorghum to de-toxify Dual Gold and Primextra Gold.

Thiram - A broad spectrum fungicide active to protect against common seed and seedling and root rot fungi

What insects does it protect the seed from?

Gaucho is registered for seed treatment of sorghum, maize, sunflower and sweetcorn to control wireworm (True wireworm, eastern false wireworm, Striate false wireworm, southern false wireworm,) black field earwig, wingless cockroach, field cricket and black sunflower scarab

Cruiser is registered for the control of wireworm (Southern False Wireworm , Eastern False Wireworm) , and protection from True Wireworm & Black field earwig, in sorghum.

Cruiser is registered for the control of wireworm (Southern False Wireworm, Eastern False Wireworm ,striate false wireworm) and protection from True Wireworm in maize and sweetcorn.

How do the insecticides (ie Cruiser or Gaucho) used with Elite treated seed control the soil and sucking insects?

After ingesting the active ingredient, insects quickly stop feeding and die with 24-48 hours. The chemicals act by interfering with the transmission of nerve impulses in insects. This causes the nervous system to fail, and the insect dies.

Does Elite treatment give me any other benefits?

Trials conducted by Pacific Seeds have shown that Elite seed will give improved crop establishment and increased plant stands when in the presence of soil and sucking insects during the first 4-5 weeks post sowing. Control of these insects can result in significant increases in harvested yield, especially where insect pressure has been evident. However growers need to be aware in situations of extreme insect pressure, complete insect control may not be achieved.

How long is the treatment active for?

The manufacturers of the insecticides say that due to the systemic action of these new generation chemicals, plant protection can be expected for the first 4 -6 weeks.

How long does Cruiser or Gaucho remain active on the seed after treatment?

Testing has shown that the insecticide remains active on the seed for more than 2 years. Overseas information also shows that the insecticides currently used in Elite seed treatments are active for at least 24 months on seed when stored in dry conditions.

Will I be able to purchase the seed with Concep II on it or do I need to put this on myself?

All Elite sorghum seed will be treated with Concep II

What does this mean in relation to the warranty on the seed if I apply it?

Any seed that has its physical state altered after leaving our premises or associated depots is not covered by any warranties. This includes treatments such as insecticides, fungicides, seed safeners, or nutrient treatments

I have heard mixed messages regarding the affects Concep II has on the germination and vigour of sorghum seed, what is the true story?

Concep II was trialled on a number of Pacific Seeds and Pioneer varieties before commercial release to evaluate any significant varietal differences. Two glasshouse trials were conducted to evaluate the effects of Concep II seed dressing on the emergence and early vigour of seven varieties of sorghum.

Emergence was assessed at the two leaf stage by counting all emerged plants in each plant in the germination trial. Concep II did not affect the percentage emergence of the sorghum varieties tested, either individually or over all varieties.

Concep II may show some reduction in early seedling growth but the trial did not show any effect on emergence or established crop vigour or yield.

It is important to note that the side effects of seed treatments are minimised when seed with high germination levels is used.

How long does the Concep II remain active on the seed?

Syngenta advise that Concep II remains active on the seed for up to 18 months. These details are clearly outlined on the Concep II product label.

What are the advantages of purchasing Elite treated planting seed over buying untreated seed and applying the insecticides/Concep II myself?

- Pacific Seeds Elite range is seed that is of the highest quality which is necessary to minimise the impact of the extra loading of chemical on the seed.
- No chemicals to handle
- No wastage or left over chemicals
- Elite seed is covered by company warranties

How do I order Elite treated planting seed?

Through your local Pacific seeds agent. Early orders or indications will help Pacific Seeds more effectively meet the high level of demand for Elite seed.

How far ahead do I have to place my order?

The earlier the better but two weeks notice gives us time to treat seed and have it retested popular varieties such as MR-Buster, Pacific MR43 etc will be treated in bulk in anticipation of orders. Seed will be treated with both Gaucho and Cruiser but availability of particular chemicals may be restricted at times. All Elite sorghum seed will be treated with Concep II.

Can I return unused seed?

This is dependent on your agents attitude to this. Most agents would be reluctant, as they have to purchase the seed up front on a buy and no return basis.

Pacific Seeds will not accept returns on Elite seed under any circumstances. This is because of the costs associated with the chemicals involved.

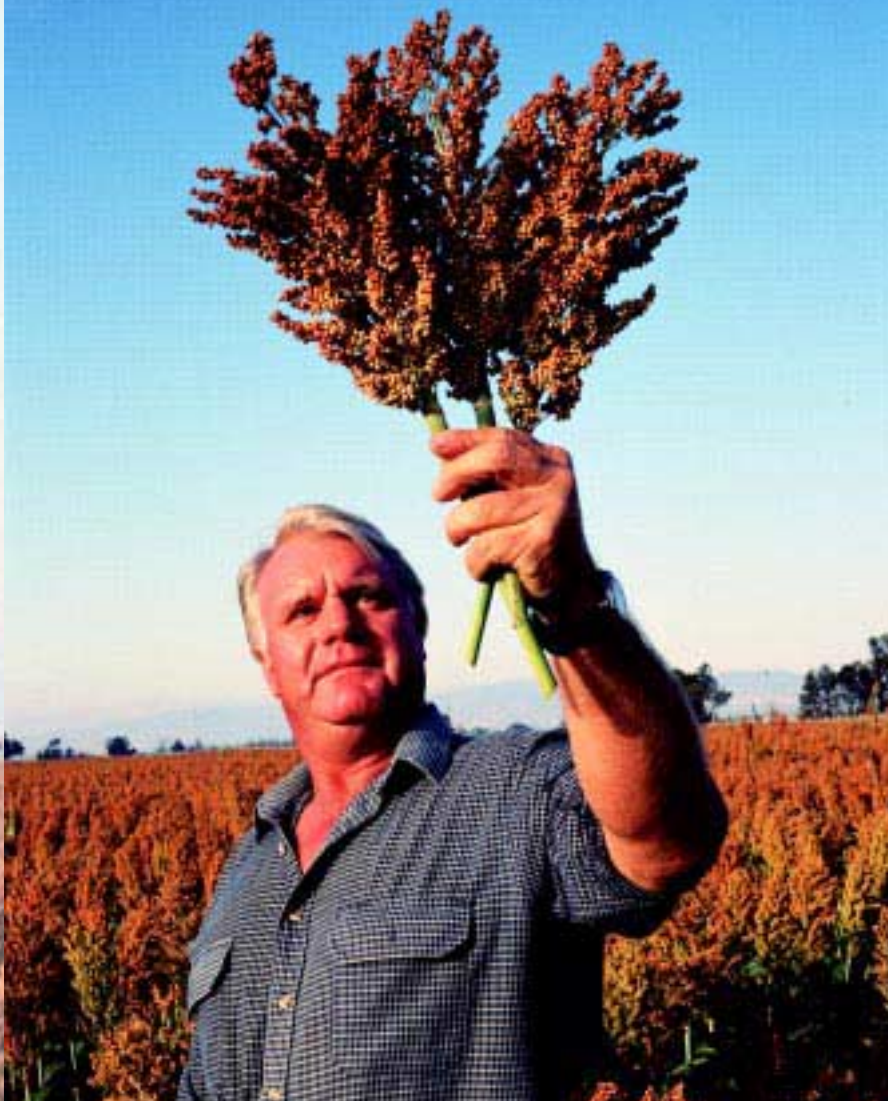
How long will it take to receive the seed, after order, for CQ growers?

If the seed needs to be treated for the order it will take approximately 10 - 14 days. With accurate forecasting and earlier ordering all seed should be available well in time for planting.

The logo for 'Elite' is displayed in a white serif font on a red rectangular background. A small sunburst graphic is positioned above the letter 'i'.

PACIFIC SEEDS PTY LTD
268 Anzac Ave (PO Box 337) Toowoomba Qld 4350
Ph: (07) 4690 2666 Fax: (07) 4690 2622
Email: info@pacseeds.com.au

INTERNATIONAL DIVISION
268 Anzac Ave (PO Box 337) Toowoomba Qld 4350 Australia
Ph: IDD + 61 7 4690 2666 Fax: IDD + 61 7 4630 2826
Email: intlsales@pacseeds.com.au



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The information provided in this brochure is intended as a guide only. Various factors, including planting times and environmental conditions may alter the characteristics of plants.

www.pacificseeds.com

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PTY LTD A.C.N. 010 933 061



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