

INSECTICIDES			
Trade Name	Chemical / Technical Name	pH	Half Life
Amitraz, Ovasyn	Amitraz	9	1.26 Hours
		7	15 Hours
		5	35 Hours
Azodrin, Monocrotophos	Monocrotophos		Incompatible with Alkaline Solutions
Bt	Bacillus Thuringiensis		Incompatible with Alkaline Solutions
Comite	Propargite	9	24 Hours
		6	331 Days
Profenn Curacron	Profenofos		Incompatible with Alkaline Solutions
Decis	Decis	8	24 Hours
			More stable under acidic conditions
Endosulfan	Endosulfan		Undergoes some Hydrolysis
Folimat	Omethoate		Incompatible with Alkaline solutions
Mitifol, Kelthane	Dicofol	7	15 Minutes
		6	Optimum
		5	21 Days
Showdown, Larvin	Thiodicarb	6	Stable
Rogor, Dimethoate	Dimethoate	9	48 minutes
		6	12 hours
		4	21 hours
Lorsban, Instinct, Predator	Chlorpyrifos	10	7 Days
		6	Stable
Nudrin	Methomyl	9	Loss of 5% in 6 Hours
		6	Stable
Folidol, Parathion	Parathion Methyl	10	6.5 Hours
		7	28 Days
		5	160 Days
Rescue	Chlorpyrifos Ethyl	10	2 Days
		8	3 Days
		6	38 Days
Scud	Cypermethrin	9	35 hours
HERBICIDES			
Trade Name	Chemical / Technical Name	pH	Half Life
Arsenal	Imazpyr	7	Stable
			Unstable Under Alkaline Conditions
Atrazine	Atrazine	7	Stable
Dual	Metolachlor	9	200 Days
		13	97 Days
Fusilade	Fluazifop-Butyl	7	Stable
Glean	Chlorsulfan -Urea	7	Stable
Glyphosate	Glyphosate		3.5 Optimum pH
Goal	Oxyfluorfen	7	Stable
Reglone	Diquat	7	Decomposes Rapidly in High pH
Simazine	Simazine	7	Stable Decomposes Rapidly in High pH
Spray Seed	Paraquat	7	Stable Decomposes Rapidly in High pH
Select	Clethodim		Always Buffer
Topic	Clodinafop		Always Buffer
Hoegrass	Diclofop-Methyl		Avoid Alkaline Water
Puma S	Fenoxapop		Avoid Alkaline Water
Wild Cat	Fenoxapop		Avoid Alkaline Water
Verdict	Haloxypop		If pH greater than 7 use immediately
GROWTH REGULATORS			
Trade Name	Chemical / Technical Name	pH	Half Life
Prep, Ethephon	Ethephon	3	Decomposes Rapidly in Alkaline Conditions

INTRODUCING THE GROWTH PRODUCT RANGE

GROWTH agriculture is a division of Agriforce Direct Marketing Pty Ltd. Agriforce Direct Marketing is an importer, wholesaler and manufacturer of a unique range of products heavily focused on Integrated Pest Management (IPM) and foliar nutrition in cotton growing. Sustainable agriculture, clean green and environmentally acceptable agricultural practices are at the forefront of the company's philosophy.

Recognising the future needs of the industry (particularly in IPM) the company was established in 1992, in Wee Waa NSW, to explore the international scene as to the availability of products, technology and concepts for future development in Australia. One such product was Pred Feed (a food for beneficial insects) which after a large investment in research and development, is now not only widely used, but is accepted as being an integral part of an IPM approach. The ability to produce acceptable economic yields using a softer, more sustainable approach is now a reality and Agriforce Direct Marketing, in keeping with its philosophy, has played an important role in achieving this goal.

Agriforce Direct Marketing also focuses on nutrition, particularly foliar. This is another challenging area. Nutrition has rightly been termed the new frontier of agriculture and a number of dedicated research and development companies in the foliar field have achieved outstanding results over recent years. Agriforce Direct marketing is one such company, which aims to provide consistent higher quality and yield of cotton crops by better managing nutritional requirements and then providing the most suitable product.

Currently technology and products are sourced from the US, UK, NZ and others have been developed from a local base.

The creation of the **GROWTH PRODUCT RANGE** is a necessary development to enable Agriforce Direct Marketing to concentrate its efforts in the ongoing commitment to research, the sourcing of products and technology and the future development of these in the cotton growing market. It will provide a focus and identify the range both now and in the future and provide a vehicle for promotion and dissemination of information to growers, consultants and distributors.

The **GROWTH PRODUCT RANGE** has been established to provide solutions to future challenges facing growers in the cotton industry.

GROWTH agriculture

Don't Let Your Next Spray be the "ONE THAT GETS AWAY"

Assure the Effectiveness of your Spray Programme by Contacting **GROWTH agriculture.**

**FREECALL
1800 440 438**

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GOOD GROWTH IS OUR BUSINESS

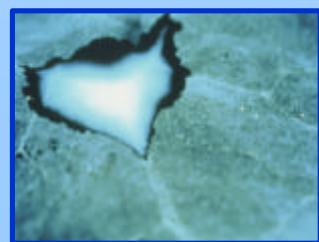
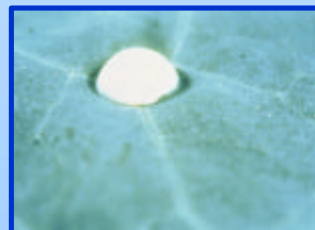
GROWTH

DEPLOY 1000

NON-IONIC SPREADER -

Deploy 1000 is a non-ionic spreader that gives a quick wetting action, and improves absorption and spray coverage. Deploy 1000 is neutrally charged, and when a neutrally charged solution comes into contact with a negatively charged leaf surface, the solution will spread and penetrate the leaf surface. This product increases retention of spray droplets by reducing the surface tension enabling improved coverage of the leaf surface. This is particularly useful when targeting weeds with hairy or waxy surfaced leaves that are hard to kill with contact herbicides.

The photos below show how a single droplet applied with Growth Deploy 1000 will spread across the leaf surface.



GROWTH

STEADFAST

SPREADER – ACTIVATOR -

Steadfast – for adjusting water pH.

Many Agricultural chemicals degrade rapidly in high pH (alkaline water.) It is very common to have bore water, or irrigation canal water with a pH of 8.0 or above. Phosphate insecticides and many other agricultural chemicals breakdown rapidly when they are placed in water of this quality. This effect can reduce the activity of pesticides even before the spray application is completed.

Steadfast helps protect the chemical investment through pH adjustment. Growth Steadfast will reduce the pH of the water by 2 or more pH points. Reduction of pH will vary from one water source to another, however Steadfast is active enough, in most waters to adjust the pH into a safe range. (See table for many commonly used agricultural chemicals, and their breakdown in alkaline water.)



GROWTH

BROADSPRED

ORGANOSILICONE

Broadspred is an Organosilicone surfactant that will improve coverage and penetration of all spray applications. Broadspred is a negatively charged solution. When a negatively charged ion comes into contact with a negatively charged leaf surface, the solution will be repelled, or caused to spread over the leaf.

Broadspred works by reducing the surface tension of the water droplet more effectively than non-ionic surfactants. It helps the spray droplet spread more effectively both above, on top of, and underneath the leaf. This activity can be crucial when targeting pests such as aphids and mites.

The following photographs show how effectively Broadspred will increase coverage. The photo on the left has not been treated with Broadspred. The one on the right has been treated with the recommended label rate of Broadspred.

