



AGPRO
DIRECT

TECH SHEET:

Forage Brassica's

SWEDES, TURNIPS AND KALE

Forage brassica crops are grown widely both as a supplement and as an alternative to pastures in New Zealand's animal production systems. Brassicas are important for their potential to produce high quality and high yields of forage that can be fed 'in situ' from early summer through to late winter and for their role as break crops during pasture renewal.

- They produce high quality feed in periods of pasture feed deficit.
- They are a feed substitute to avoid pasture-related health problems such as facial eczema and ryegrass staggers.
- Brassica break crops provide advantages for pasture renovation by reducing weeds, pests and diseases, and creating better soil conditions and cleaner seed beds for establishing new pastures.

Many problems with brassica production arise from poor sowing techniques and inadequate seed bed preparation. Once a good crop has been established, the aim is to utilise it with minimum wastage. Various options for crop establishment have been investigated in field trials and demonstrations. Many cases of poor crop growth can be traced to inadequate preparation of the seed bed.

- Direct drilling can have advantages for establishment when conditions are ideal for germination and early growth, and for reducing pugging during winter grazing and therefore less loss of valuable standing feed. However, this practice must also be done well to produce a good crop.



The best results are achieved by conventional drilling. When crops are established with conventional cultivation, desired plant populations are more likely to be achieved and there is less pressure from weeds and insects.

- Weed control, pest and to a lesser extent disease have a huge bearing on whether high yields are produced especially where multiple years of cropping happen in the same paddocks.
- The AGPRO programme overleaf aims to give you a guide on how to best "keep the crop clean" from weed control, taking care of pest issues, and allows you to plan for one or more fungicides to minimise loss from certain diseases.

AGPRO HORTICULTURE
Freephone 0508 536 536
for technical assistance

THE VALUE OF EXPERIENCE



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SUGGESTED AGPRO SPRAY PROGRAMME

The AGPRO programme below aims to give you a guide on how to best "keep the crop clean" from weed control, taking care of pest issues, and allows you to plan for one or more fungicides to minimise loss from certain diseases.

STRAIGHT AFTER PLANTING PRODUCT MUST BE APPLIED TOGETHER:

Product	Application timing	Purpose	Rate/ha	Comments
AGPRO Glyphosate 510 AGPRO Hipro	Pre crop emerg Add to Glyphosate	Remove seedling weed Controls certain hard to kill weeds	1-1.5L/ha 40g/ha	Check weed spectrum Do not sow within 14 days of this app
AGPRO Clomazone BASF Dimethenamid	With Glyphosate With Glyphosate	Residual/knockdown Residual/grass and broadleaf	150-200ml/ha 650ml/ha	Increased residual spectrum Approx 12-15mm rain within 7 days of this app
AGPRO Imidacloprid	With the above	Residual/systemic insecticide	300ml/ha	Protects seed and emerging plant
AGPRO Fluazinam	Pre crop emerg	Clubroot	3L/ha	Repeated planting, same paddock, low ph

SUGGESTED PROGRAMME POST CROP EMERGENCE FROM 3-5 LEAF STAGE OF CROP:

Product	Application timing	Purpose	Rate/ha	Comments
AGPRO Cloram	After 4 leaf stage	Knockdown of broadleaf weed	350-400ml/ha	Add Crop Oil
AGPRO Cloralid	After 3-4 leaf stage	Mainly thistles, broadleaf weed	300-600ml/ha	Add Crop Oil
AGPRO Dicamba	After 4 leaf stage	Hard to kill/extended weed range	200ml/ha	Small seedling weed
AGPRO Chloridazon	After 4 leaf stage	Specific weeds like wild turnip, spurry	2-4L/ha	Check with AGPRO
AGPRO Oxyfluorfen	Post emergence	Used as a spike with other products	80-150ml/ha	Check with AGPRO

OTHER CHEMICAL OPTIONS:

GRASS WEEDS:

Product	Application timing	Purpose	Rate/ha	Comments
AGPRO Haloxyfop	Post emerg	Remove grass weed	0.5-1L/ha	Add Crop Oil
AGPRO Grasadam	Early post emerg pre-harvest	Controls a range of grass weeds	250-500ml/ha	Check grass species to determine timing

DISEASE :

Product	Application timing	Purpose	Rate/ha	Comments
AGPRO Cyproconazole	Post emerg	Prevent/control alternaria (ring spot)	200ml/ha	Can be mixed with insecticide

INSECT PESTS:

Product	Application timing	Purpose	Rate/ha	Comments
AGPRO Lambda	After crop emerg	Control of aphid/butterfly's	30-60ml/ha	Crop monitor
AGPRO Diazate	From cotyledon to pre-harvest	Controls springtail, aphids, caterpillars and thrips	800ml/ha	Crop monitor to determine when to apply

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