'Best Bet' IPM strategy



Sorghum pests – Northern region

Pre-season and sowing

- Higher midge resistance ratings for later plantings provide greater midge control. Early sorghum crops have lower midge pressure.
- Open headed type sorghum hybrids deter aphids, Rutherglen bug and sorghum head caterpillars.
- Direct search, or use germinating seed baits prior to sowing to determine risk of soil insect attack. Seed dressings effective for all but high pest pressure. Press wheels can reduce impact of false wireworm.
- Aim for rapid germination and uniform crop establishment to minimise seedling losses, and simplify later monitoring and management of midge and helicoverpa.
- Control broadleaf weeds in-field and around crop margins to avoid build-up of cutworm prior to seedling emergence.

	Vegetative	Flowering-Grain fill	Maturity	Post-harvest
Sorghum	Increased risk of high midge	Crop is at risk only during flowering.		
midge	pressure at flowering if there is	Increased risk of damage where the crop is not uniform and the		
	abundant Johnson grass that will	timing of control is not effective for all heads.		
	allow build up before moving into	monitor for midge from the start of flowering.		
	sorghum.	under high pressure, or extended crop flowering, repeat		
		insecticide control may be required.		
Helicoverpa	Larvae may feed in whorl, but do	Increased risk of damage where large larvae have developed in		Larvae pupating after mid-
armigera	not cause significant damage.	the vegetative crop and move up onto heads.		March are likely to remain in
		monitor crops from head emergence. Beat heads to detect		the soil until the following
		eggs and small larvae.		spring. Pupae bust affected
		where the crop is not uniform, sample from areas at different		crops before moths emerge
		stages of development.		(prior to August) to prevent
		NPV is highly effective in sorghum, but timing is critical. Apply at		pest carryover and
		day 3 of flowering (50% brown anthers) or for larvae <7 mm		insecticide resistance.
		long. Larvae >13 mm will not be controlled.		
Rutherglen		High risk when large influxes occur during flowering and early	Grain at physiological maturity is	RGB feeding damage will
bug		grain fill. In some seasons influxes will continue for several	no longer susceptible to yield loss	affect the viability
		weeks.	from RGB, however in a wet finish,	(germination %) of seed.
			damaged grain is more susceptible	
		Monitor for RGB when checking for midge and helicoverpa.	to infection by fungi and bacteria	
			that reduce grain quality.	
Minor pests	Monitor for armyworm from crop	Aphid infestations may persist through head emergence and		
(common	emergence (shot hole damage in	grain fill, but they have no impact on yield and are generally		
armyworm,	advanced plants has no impact).	controlled by beneficials. However, the use of broad spectrum		
aphids)	Corn aphids colonise the whorl	insecticides for midge and helicoverpa control may flare aphid		
	but have no impact and are	populations. Control is only warranted if the sticky honeydew		
	usually controlled by beneficials.	poses a risk to ease of harvest.		