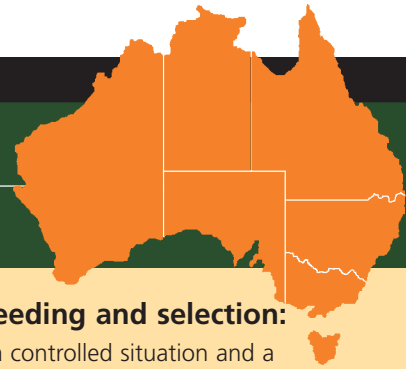


factsheet

Herbicide tolerant crops

frequently asked questions



Herbicide tolerant crops

Herbicide tolerant (HT) crop: a gene is present in these plants that makes them tolerant of a particular herbicide or group of herbicides.

Natural selection: plants with the desired attributes are selected from an existing population.

Conventional plant breeding and selection: plants are cross pollinated in a controlled situation and a particular plant or group of plants are selected for the desired attributes.

Genetically modified (GM) crop: the desired attributes are conveyed to the plant through inserting foreign genes into the plant genome.

Are all HT (herbicide tolerant) crops also GM (genetically modified) crops?



NO

HT crops can be developed through **natural selection, conventional plant breeding and selection** OR **genetic modification**, ie by inserting the desired foreign genes into the plant genome.

Can HT crops provide benefits to weed management?



YES

HT crops have the ability to aid weed control in difficult weed / crop combinations (eg wild radish control in canola can be improved by sowing triazine-tolerant (TT) canola), make crop rotations more flexible and reduce the number of herbicide applications required.

Are HT crop varieties commercially available in Australia?



YES

Crop	Herbicide	Group	GM	Resistance risk
Canola, wheat, maize	Imidazolinones	B	No	High
Canola	Triazines	C	No	Moderate
Cotton	Glyphosate	M	Yes	Low

Are there other HT crops commercially available overseas or under development?



YES

* denotes under development

Crop	Herbicide	Group	GM	Resistance risk
Maize	Cyclohexanediones	A	No	High
Rice*	Imidazolinones	B	No	High
Soybean	Sulfonylureas	B	No	High
Canola, cotton	Bromoxynil	C	Yes	Moderate
Canola, soybean, maize	Glyphosate	M	Yes	Low
Canola, maize, soybean, rice*	Glufosinate	N	Yes	Low

Are HT crop varieties being developed in Australia?



YES

Crop	Herbicide	Group	GM	Resistance risk
Medic	Sulfonylurea residues	B	No	n/a
Cotton	Bromoxynil	C	Yes	Moderate
Canola	Glyphosate	M	Yes	Low
Canola	Glyphosate	N	Yes	Low

