



## Snapshot of Genetically Modified (GM) Canola in Australia



GM canola currently grown in Australia is tolerant to glyphosate or glufosinate herbicides. This offers farmers potential economic and environmental gains.

All GM canola grown in Australia (commercial and experimental) are approved by the Gene Technology Regulator (the Regulator) only if they are safe for people and the environment. You can find the risk analyses and other documents for each licence on the [GMO Record](#) on our website.

Some state governments have further restrictions on growing GM canola.

There are additional guidelines for use of GM canola in stockfeed and for dealing with GM canola growing on the roadside (volunteer plants).

Criminal charges can apply for non-authorized dealings with GM crops of any kind.

Canola is grown for its seed which is crushed for the oil used in margarine, cooking oils, salad oils and edible oil blends. After the oil is extracted, the by-product is a protein-rich meal used to feed livestock. Canola is grown around Australia and is easily recognised by its vivid yellow flowers.

As of 2024, about 46% of canola produced in Australia is GM. The Australian Capital Territory, Kangaroo Island (South Australia) and Tasmania have legislation banning farming of GM canola due to marketing concerns.

### Safety of GM canola

The Office of the Gene Technology Regulator (OGTR) carried out scientific evaluations of GM canola and the Regulator authorised the first commercial releases of 2 herbicide-tolerant types in 2003. The OGTR risk analysis found that these types of GM canola posed no more risk to human health and the environment than non-GM canola.

The Regulator has issued a total of 10 licences for the commercial release of GM canola. This includes one commercial licence for GM Indian mustard (which is closely related to canola). These allow the approved GM canola to be grown throughout Australia.

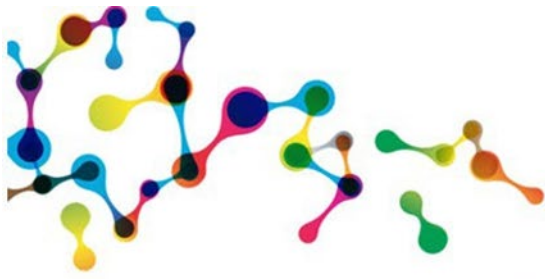
Currently, commercially grown GM canola in Australia is glyphosate or glufosinate tolerant canola with a hybrid breeding system.

Other types of GM canola have been approved for commercial release in Australia including canola tolerant to both glyphosate and glufosinate and canola producing long chain omega-3 oil. However, these are not currently being grown commercially.

The commercial approvals of GM canola to date are listed in the table above. The latest information on commercial approvals is available online as part of the [GMO Record](#).

Licence number	Trade name	Modified trait/s	Licence holder	Licence issue date
<a href="#">DIR-190</a>	InVigor™ canola	Herbicide tolerance; hybrid breeding system	BASF Australia Ltd	13 Oct 2022
<a href="#">DIR-178</a>	-	Herbicide tolerance; hybrid breeding system	BASF Australia Ltd	16 Sep 2021
<a href="#">DIR-175</a>	-	Herbicide tolerance; hybrid breeding system	BASF Australia Ltd	12 May 2021
<a href="#">DIR-155</a>	DHA canola	Omega-3 oil content	Nuseed Pty Ltd	13 Feb 2018
<a href="#">DIR-139</a>	Optimum™ GLY canola	Herbicide tolerance	Pioneer Hi-Bred Australia Pty Ltd	29 Mar 2016
<a href="#">DIR-138</a>	InVigor® x TruFlex™ Roundup Ready® canola	Herbicide tolerance; hybrid breeding system	BASF Australia Ltd	22 Mar 2016
<a href="#">DIR-127</a>	TruFlex™ Roundup Ready® canola (MON 88302)	Herbicide tolerance	Monsanto Australia Ltd	21 Nov 2014
<a href="#">DIR-108</a>	InVigor® x Roundup Ready® canola	Herbicide tolerance; hybrid breeding system	BASF Australia Ltd	2 Dec 2011
<a href="#">DIR 021/2002</a>	InVigor® canola	Herbicide tolerance; hybrid breeding system	BASF Australia Ltd	25 Jul 2003
<a href="#">DIR 020/2002</a>	Roundup Ready® canola	Herbicide tolerance	Monsanto Australia Ltd	19 Dec 2003





### Ongoing oversight by the Regulator

The OGTR monitors scientific and other literature for any new information relevant to GM crops and evaluates that information in relation to existing licences. The Regulator also maintains oversight of commercially grown GM canola, to ensure it remains safe.

If something changes, and a GM crop can no longer be considered safe, the Regulator has the power to revoke existing licences to grow the crop. To date, no information has arisen in Australia or internationally to indicate that GM canola commercially grown in Australia is no longer safe, or that licences issued since 2003 should be suspended.

You can read the risk assessment and risk management plan for each application and other details of the licences. These documents are available on the [GMO Record](#).

### Restrictions on cultivation of GM canola

Each state and territory may ban cultivation of GM crops temporarily or indefinitely for trade or marketing reasons on a case-by-case basis.

GM canola is grown in many states in Australia. Canola is generally not grown in the Northern Territory. The Australian Capital Territory, South Australia and Tasmanian governments have a range of restrictions.

After the Regulator approved GM canola commercial releases in 2003, most states and territories passed laws to delay the commercial release of GM crops (including GM canola), allowing them to investigate issues such as marketability and trade before the first commercial plantings of GM canola.

State and territory rules only relate to issues of market access and not to safety of human health or the environment.

Get more information from state and territory governments following the hyperlinks in the descriptions below.

Some states and territories have since allowed GM crops such as canola, while some moratoria (bans) remain in place.

The [Australian Capital Territory's](#) moratorium remains in force.

[New South Wales](#) allowed its moratorium on commercial cultivation of GM food crops to lapse at the end of June 2021. GM canola restrictions were lifted prior to this in 2008.

The [Northern Territory](#) allows GM canola to be grown. Canola is currently not cultivated.

[Queensland](#) has allowed GM canola to be commercially cultivated since 2003.

In late 2020, [South Australia](#) has allowed commercial cultivation of GM canola in all areas except Kangaroo Island.

[Tasmania](#) has extended its GM crop and animal moratorium until [2029](#).

[Victoria](#) allowed its moratorium order on commercial production of GM canola to lapse in 2008.

[Western Australia](#) granted an exemption in 2010 allowing commercial cultivation of GM canola and revoked its moratorium legislation in 2016.

### Other regulators

The safety of GM products for sale as food is assessed by Food Standards Australia New Zealand (FSANZ). Read more on the [FSANZ website](#).

The use of herbicides on GM herbicide-tolerant canola varieties is regulated by the [Australian Pesticides and Veterinary Medicines Authority](#), which applies conditions to ensure responsible use of herbicides, and to minimise the development of weeds with herbicide resistance.

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### Related factsheets

[Controlling genetically modified \(GM\) canola on roadsides](#)

[Stockfeed and GM crops](#)

### Further reading

[Genetically modified organisms in Australia](#)

[Genetically modified \(GM\) crops in Australia](#)

[How are genetically modified organisms \(GMOs\) regulated in Australia?](#)

