SPRING/SUMMER 2021-22

CropLinks

THE LATEST PLANT SCIENCE INDUSTRY NEWS

Major new environmental stewardship initiative – bagMUSTER

CropLife Australia, in partnership with the Australian Seed Federation, has announced Australia's first not-for-profit, whole-of-industry, genuine collection and recycling program for agricultural bags, bagMUSTER.

Plastic packaging plays an essential role in Australia's agricultural industry by protecting pesticide, seed and other ag products for transport, use and storage. Too often, this packaging is left as on farm waste or sent to landfill. bagMUSTER will ensure these agricultural bags are collected and processed in an environmentally sustainable way onshore, here in Australia.

bagMUSTER has been designed by CropLife Australia following the extensive experience gained through the ***drum**MUSTER* and ChemClear™ programs, which have been in operation for almost 30 years through CropLife's wholly owned stewardship organisation, Agsafe.

bagMUSTER is being developed as a hybrid program, taking the best and most suitable components from ***drum**MUSTER* and ChemClear™ to deliver an industry-led not-for-profit and fit-for-purpose stewardship solution for agricultural pesticide, seed and other farm input product bags.

Government partnerships will be crucial to ensure a viable and sustainable model is delivered for the benefit of Australia's farmers when the pilot phase begins in 2022. Following the pilot phase, bagMUSTER will be delivered through an industry-funded not-for-profit model on a fee-for-service basis. This will mean minimised costs to farm supply chains.

CropLife Australia and our members are continuously adopting and promoting ethical and responsible practices right from discovery and development of agricultural products through to their use and the final disposal of associated waste. bagMUSTER shows that the members of both CropLife and the Australian Seed Federation have a deep commitment when it comes to a genuine whole-of-life-cycle approach to industry stewardship and playing their part in protecting the environment.

Inside this issue

REPRESENTING THE BEST OF THE PLANT SCIENCE INDUSTRY

CropLife Australia

THE LATEST PLANT SCIENCE INDUSTRY NEWS

Matthew Cossey
Chief Executive Officer, CropLife Australia

CropLife acknowledges the original farmers and custodians of the land.

From the CEO

Global crises, such as pandemics, have a very effective way of focusing governments, and the community more broadly, on the importance of science.

Humanity's ability to deliver solutions, like vaccines, to existential threats such as global pandemics through science is awe inspiring. Yet a great ignorance around science remains. We still see misinformation from anti-vax groups permeate our society and seek to undermine confidence in these life-saving innovations.

Science is also the foundation of our ability to sustainably produce enough nutritious food to feed a growing population. Even something as fundamental as food security, however, is not exempt from targeted fear-driven campaigns. Small but vocal groups persist in peddling falsely premised fear campaigns about chemistry and biotechnology in farming, in an attempt to distort public discourse and opinions.

As we mark 25 years of commercial cultivation of genetically modified crops in Australia, it is an opportune time to reflect on how many of these deliberately misleading and anti-science campaigns unnecessarily delay the introduction of beneficial innovations. Many biotechnology-developed crops have been approved following more than 4,400 risk assessments by independent scientific regulatory authorities (including Australia's own Office of the Gene Technology Regulator) in more than 70 countries. Over the past 25 years GM crops have delivered significant agronomic, environmental and economic benefits to Australia without a single adverse health effect identified – despite more than four trillion GM crop-based meals being consumed across the globe.

Despite this, we still see organisations here in Australia and around world spreading outright falsehoods about these innovations. Similar attempts have been made to mislead consumers about chemistry-based innovations which are crucial for modern and sustainable farming and equally well regulated by competent and independent government agencies.

If this global pandemic should have taught us anything, it is that public policy and regulation – whether in health, agriculture or other policy areas – need to be grounded in science and driven by evidence and data.

Thankfully, despite the false rhetoric, we've seen recent examples of this science-based forward thinking through the removal of moratoria on genetically modified crops in both South Australia and New South Wales. These decisions mean farmers in every mainland state can now access all approved GM crops, bringing them into line with their major international agricultural competitors and underpinning a great productivity and environmental sustainability leap for Australian farming.

Now it's time to mirror this thinking in considering the future of Australia's national agricultural and veterinary chemical regulatory system and the National Gene Technology Scheme.

Too often reforms fail in meeting their long-term outcomes because they consider the past rather than future needs and opportunities. Industry has become adept at working within less-than-ideal frameworks but would rather see frameworks that enable, facilitate and encourage better outcomes for everyone.

Festive favourites enabled by the plant science sector

Picture this: it's Boxing Day, remnants of a merry Christmas fill the lounge room and fridge, and the cricket is about to start. What could be better than a piece of Christmas pudding with a freshly brewed coffee? Ah, festive bliss. Without ready access to crop protection products, however, these global favourites could be missing.

Coffee as a commodity is worth over $100 billion in international markets. It is grown in around 80 countries with 70 per cent of beans being produced by smallholder farmers. Without pesticides, coffee crops would suffer yield losses of up to 40 per cent due to devastating diseases such as coffee leaf rust, and pests like root nematodes and the coffee borer beetle.

Pudding ingredients such as fruits and nuts are also highly susceptible to a range of fungal diseases and insect pests. So much so, Australia's annual $4.9 billion crop of fruits and nuts couldn't be produced without the use of pesticides.*

While scientists are continually advancing crop protection products, research into biotechnology innovations to breed new varieties is flourishing too.

Of more than 100 coffee species in the world, only two are commercially viable. Arabica coffee is considered a superior beverage but is highly sensitive to pests like fungi, nematodes and insects. It contributes almost 75 per cent of total production. Robusta coffee, while lower in quality, is more resistant to pests and makes up the remaining 25 per cent of production.

It would be desirable to combine these genetic traits and scientists are looking at this through agricultural biotechnology advances.

Australia's annual $4.9 billion crop of fruits and nuts couldn't be produced without the use of pesticides.

Other food crops resistant to environmental threats, changing weather patterns, increased temperatures, disease and insects are all in the biotech pipeline too.

It's the hard work of Aussie farmers and the innovations of the plant science industry that will keep coffee and plum puddings a surer reality than Australia retaining the Ashes.

*Deloitte Access Economics (2018): Economic activity attributable to crop protection products.

Crop Protection

Pesticides vital to curb invasive species

Targeted spray program in nature reserve to eradicate invasive weeds

Australia's unique natural environment is constantly at risk from invasive weeds and other pests. Like farmers, Australia's environmental land managers – such as the parks and wildlife services – rely on the use of modern pesticides to best care for our natural environment,

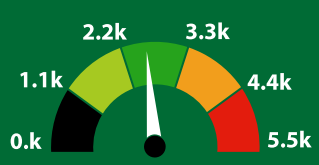
Invasive weeds, insects and other pests can have major negative impacts on Australia's natural environment as they damage the diversity and balance of ecosystems. Many native species are becoming increasingly rare or threatened in their native ecosystems as they compete with weeds for space, moisture, nutrients and sunlight.

In 2020, the Invasive Species Council's report Glyphosate: A Chemical to Understand highlighted that herbicides offer the only effective option for removing invasive weeds from Australia's bushland reserves and that, without them, most of the remaining indigenous vegetation in Australia would decline in both quantity and quality.* A more recent study by researchers at the CSIRO and Flinders University demonstrated that invasive plants are the priciest pests in Australia, costing $200 billion since 1960.*

In the Australian Capital Territory alone, there are nearly 5,500 sites where management of invasive species and habitat restoration is underway.* This comprises over 13,000ha of area undergoing protection and enhancement.

Invasive species management and habitat restoration underway at 5,472 sites in the ACT

Low invasion pressure showing containment likely



13,027.614 ha undergoing protection and enhancement

At least 13 different selective and nonselective herbicides and combinations are being used to manage the populations of invasive species and provide weed-free areas for natural species to establish.

Continued innovation in pesticide products will only serve to aid efforts in preserving and restoring Australia's natural habitat and manage the spread of invasive species, while improving the ecological footprint and safety of the products used.

In the heart of the Nation's Capital, Canberra, lives a microcosm of the fight to protect and restore rare and threatened native species.

A litany of rare and threatened plant species like Burchardia umbellata (Milkmaids), Calotis lappulacea (Yellow burr daisy) call a hill behind Parliament House home.

Volunteers from Red Hill Regenerators use a variety of pesticide control options to manage invasive blackberry, St John's Wort, African lovegrass, Chilean needlegrass and Patterson's Curse creating safe spaces for the native flora and fauna to thrive.

* Glyphosate: A chemical to understand. Invasive Species Council, 2020. https://invasives.org.au/wp-content/uploads/2020/11/Glyphosate-A-Chemical-to-Understand.pdf
* Detailed assessment of the reported economic costs of invasive species in Australia, 2021. Corey J. A. Bradshaw and others. https://doi.org/10.3897/neobiota.67.58834
* 2019-20 Invasive Plant Control ACT Public Land | Operations Dashboard for ArcGIS. Viewed 30 September 2021. https://actgov.maps.arcgis.com/apps/dashboards/014501cd001b482ca477811c8cbca8df

Chemical crop protection worth hundreds of thousands of dollars in profit to Australian farmers

A recent study* conducted by UWA graduate student, Alison Walsh, demonstrates that the use of pesticides generates more profit for producers, reduces labour time, effort and cost, while affording conservation-agriculture techniques which conserve soil and sequester carbon.

The study highlights what farmer practices have been demonstrating for generations – the use of pesticides generates substantial profit and time savings on Australian farms. These commonly-used products are so important that an average Australian broadacre farm could see annual revenues decline from $458,000 to $197,000 without them.

One of the herbicides considered in the research, Glyphosate, is an effective and cheap non-selective herbicide often used in combination with other products. Were farmers to lose access to herbicides, like glyphosate, they would be forced to adopt a range of more expensive management tactics and strategies to control weeds. This includes increased labour costs and increased soil-damaging mechanical controls, such as tillage or combustion.

The idea of banning certain herbicides has gained international headlines through activist organisations peddling dangerous misinformation about the safety of these products they are ideologically opposed to.

What a sensationalist headline doesn't portray, though, is the robust science and assessment these products are subject to from independent government regulatory agencies.

Every independent science-based regulator globally has comprehensively evaluated glyphosate and found it safe to use, providing assurance that these products should remain available to farmers and other pesticide users.

The UWA study modelled the increase in the price of grain if some crop protection products were to be removed from the global market. Unsurprisingly, a decrease in yield from lack of pesticide options would see grain commodities increase and, as a result, food prices spike. At a time when the world is considering how to produce more for a growing population, anything that further risks food security must be avoided.

Farmers need access to more – not less – crop protection products to continue their work due to increasing levels of resistance that plant pests and weeds develop. Additional pest management options will maintain the effectiveness and the life of all these crucial farming tools.

CropLife Australia's Resistance Management Strategies are developed as part of a commitment to make the most up-to-date resistance management advice freely available for farmers. The strategies are reviewed and updated on an annual basis by scientific technical review committees in consultation with relevant national and international experts.

*Economic implications of the loss of glyphosate and paraquat on Australian mixed enterprise farms. Alison Walsh, Ross Kingwell. 2021.

Crop Biotechnology

Crop BIOTECHNOLOGY

Celebrating 25 years

of genetically modified crops in Australia 1996-2021

For thousands of years, humans have used different methods like selective breeding and crossbreeding to produce plants with more desirable traits, such as taste and texture, increased yield, pest and disease resistance and resilience, with varied success.

Many of the food crops we enjoy today are a product of these methods, but achieving these results can be a time and resource intensive process due to lengthy breeding cycles and the inability to achieve the outcomes with precision.

Enter the innovation of biotechnology – allowing plant breeders to make changes without the burden of time.

This year marks 25 years since genetically modified crops were first commercially cultivated in Australia. For a quarter of a century these crops have played a significant role in Australian farming systems allowing farmers to radically reduce their carbon footprint and better protect the health of their soil.

Introduction of GM crops in Australia

Cotton

Carnations

Canola

Safflower

1996 — 2003 — 2018

Broadacre giants delivering environmental and economic benefits - Cotton and canola

Cotton is one of the most significant and popular broadacre crops in Australia and was the first genetically modified crop to be grown on our shores.

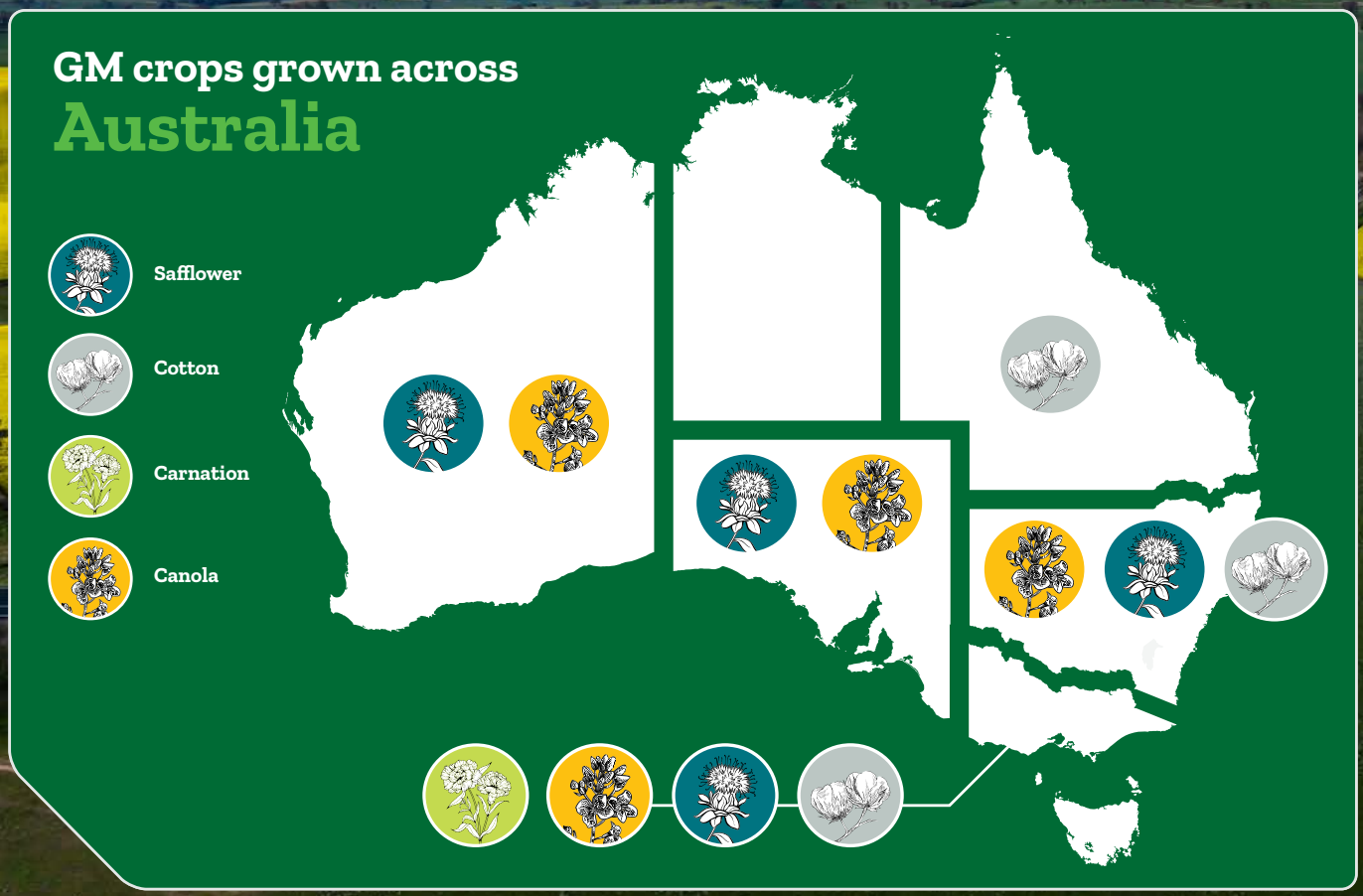
Since 1996, GM cotton has afforded farmers higher yields and significant environmental gains. GM cotton varieties have skyrocketed in popularity to the point where more than 99 per cent of Australian-grown cotton contains GM traits conferring herbicide-tolerance, resistance to the major caterpillar pest or both.

The introduction of this GM technology has improved integrated pest management allowing farmers to use pesticides more sustainably. In turn, this better management of pests has decreased pesticide resistance and reduced soil tillage which means less herbicide run-off through soil erosion.

Throughout the time GM cotton has been grown, yields have been up, but the benefits don't stop there. GM cotton fields have experienced increased populations of beneficial insects and wildlife, farm worker and neighbour safety has improved, farmers are spending more time with their families because of the efficiencies they've gained and labour and fuel usage is down.*

In 2003, licences were issued for the commercial release of two types of GM canola. While some state and territory governments initially established GM-free zones until marketing considerations had been addressed, New South Wales, Victoria, Western Australia and South Australia have now overturned these decisions and GM canola is flourishing.

The incorporation of GM canola varieties into cropping rotations has become an important tool for growers to not only reduce herbicide applications, but to maintain the quality of their soil, avoid pest and weed build up and maximise yield.



Crop Biotechnology

Environmentally conscious crops

An exciting development from Australian scientists has recently birthed a new canola variety with increased Docosa-hexaenoic acid (DHA) and omega-3 in the oil profile.

Aside from providing Australian growers with new, high-value crops, this innovation will provide a sustainable plant-based source to meet growing consumer demand for omega-3 oils while reducing reliance on critical fish populations worldwide.*

The exploration of oilseed crops as plant-based alternatives for processing and products has also garnered interest from industrial sectors with two Super-High Oleic GM safflower lines being approved for commercial production in Australia in 2018.

Permitted for the edible oil and industrial oil markets, the Super-High Oleic Safflower was developed to enhance the oil profile in the seed by suppressing two genes already present in safflower to produce more oleic acid (a mono-unsaturated fatty acid) and less linoleic acid (a poly-unsaturated fatty acid). It represents an astonishing achievement in the quest to find a plant-based alternative to petroleum-based engine oils.*

From R&D pipeline to paddock

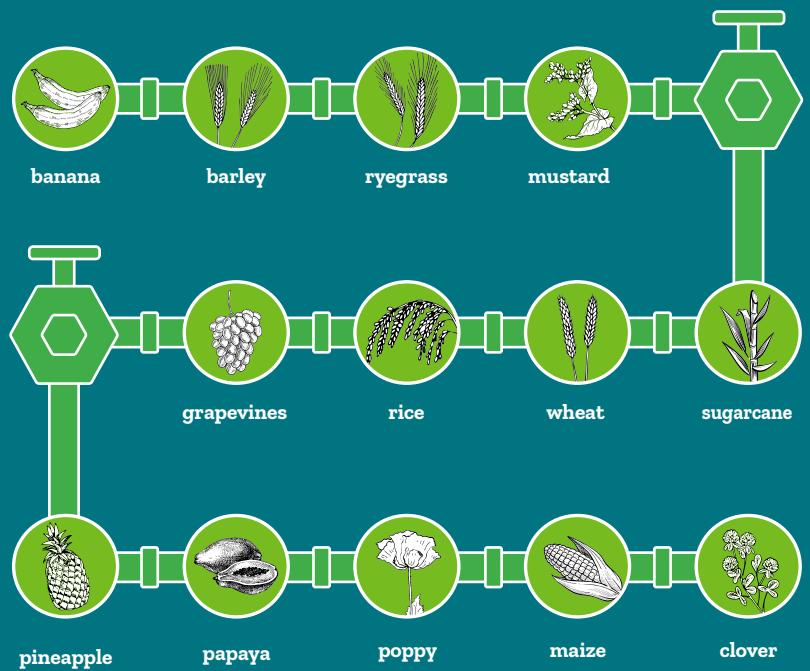
While agronomic traits will continue to be a core part of breeding programs, GM applications in crops have enabled plant breeders to consider the potential to address global challenges like nutrition, food security and food waste.

Apples that don't brown when cut – significantly reducing food waste – as well as bananas and rice (golden rice) enhanced to produce higher amounts of pro-vitamin A to improve nutrition and prevent vitamin deficiency in developing countries are just a few examples.*

Australia has a rich history of leading agricultural innovation. From pipeline to paddock and processing, GM crops have become a mainstay of the Australian agricultural industry, delivering safe and affordable food, feed and fibre to Australia and the world.

As we celebrate 25 years of GM crops, we look to the future and the importance of continuing to leverage the benefits afforded by agricultural biotechnology to address the challenges of today and those we're yet to face.

GM crops in the pipeline



* Queensland University of Technology (2019). QUT 'golden banana' humanitarian honoured. Retrieved from /www.qut.edu.au/institute-for-future-environments/about/news?id=138009
* Cotton Australia (2021). Biotechnology and Cotton [Factsheet]. Retrieved from https://cottonaustralia.com.au/fact-sheet
* CSIRO (2021). Omega-3 Canola. Retrieved from https://www.csiro.au/en/research/production/biotechnology/omega-3-canola
* CSIRO (2021). SHO Safflower. Retrieved from https://www.csiro.au/en/research/plants/crops/oil-crops/sho-safflower

Crop Biotechnology

Blue is the rarest natural pigment in nature, but thanks to cutting-edge GM technology, the world has gained stunning mauve/blue carnations.

The carnation cultivar 'Moondust' contains genes from petunia and snapdragon flowers. Commercialised in 1996, it was not only the world's first GM carnation, but the first GM plant to be grown for consumer traits alone – its special colour.

Gene technology has also been used in floriculture to improve the vase life of cut flowers and thereby reducing the use of the common preservative, silver.

GM crops aren't the only thing celebrating a milestone this year, in 2021 the Office of the Gene Technology Regulator turns 20!

Australia has a nationally consistent legislative scheme for medical and agricultural biotechnology, comprised of the Commonwealth Gene Technology Act 2000 and corresponding state and territory legislation. The Office of the Gene Technology Regulator carries out analysis to identify and manage any risks posed by new GM innovations before they are available for users and consumers.

20 Years of OGTR

Aside from 2021 marking 25 years of GM crop cultivation in Australia, it also marks 20 years of Australian's Office of the Gene Technology Regulator (OGTR), world renowned for its scientific and technical competence and independence.

June 2001

Gene Technology Act commences and Office of the Gene Technology Regulator established

September 2001

Intergovernmental Agreement on Gene Technology signed by all jurisdictions

December 2001

Dr Sue Meek appointed inaugural Gene Technology Regulator

September 2002

First commercial licence for an agricultural crop - BollgardII and BollgardII/Roundup Ready® cotton

December 2003

First commercial agricultural food crop - Roundup Ready® canola

March 2007

First GMO registered listing for colour modified carnations

March 2009

Dr Joe Smith appointed Gene Technology Regulator

August 2015

First commercial gene therapy for cancer treatment

July 2016

Dr Raj Bhula appointed Gene Technology Regulator

February 2021

First commercial scale biotech COVID-19 vaccine licence

Industry Stewardship

Supporting Australian farmers to be the world's best through industry stewardship

Every product or item we interact with has – at some point in its life-cycle – had an impact, be that through its manufacturing, use pattern or as end-of-life waste.

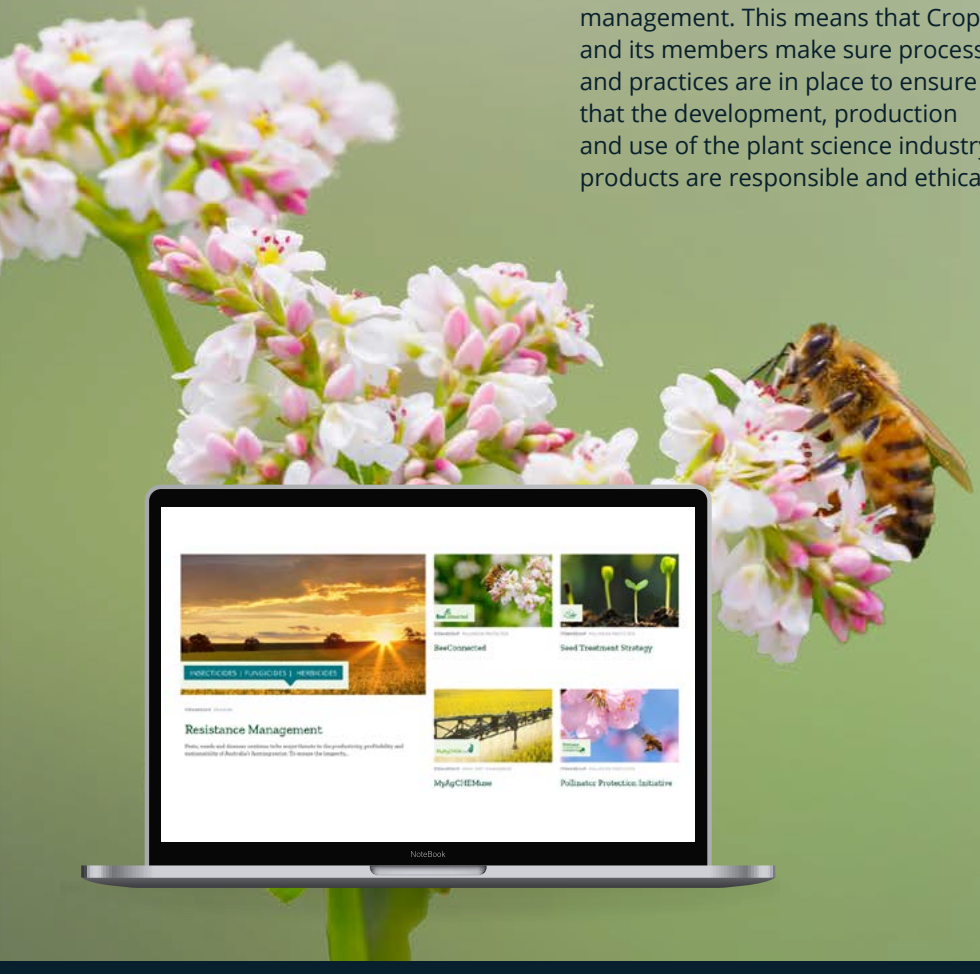
The plant science industry products of CropLife Australia's members are no different. At each step of the product development or innovation process, from early research and development through to the disposal or discontinuation of products, the plant science industry recognises its responsibility and has acted through an industry stewardship program, StewardshipFirst.

Industry Stewardship is a whole-of-life-cycle approach to product management. This means that CropLife and its members make sure processes and practices are in place to ensure that the development, production and use of the plant science industry's products are responsible and ethical.

StewardshipFirst is CropLife Australia's suite of world leading stewardship initiatives, programs and resources that support the plant science industry's commitment to the careful and responsible use of plant science products and innovations. At its core, StewardshipFirst is about helping to protect product users – like farmers, environmental land managers and home gardeners – and the environment.

As the plant science industry continues to invest billions of dollars annually into the research and development of safe and effective crop protection and crop biotechnology innovations, so too is it investing in further stewardship initiatives to support Australian agriculture.

These advancements allow farmers to access economically viable and environmentally sustainable crop protection solutions and new biotechnology products to improve their agricultural practices, all the while giving them confidence that the investments made not only contribute to the effectiveness of a product, but ensures its safety for the user and environment too.



CropLife has recently revamped its StewardshipFirst website to allow farmers and other pesticide users easy access to these free-to-use stewardship programs.

StewardshipFirst™

Check out some of the initiatives at croplife.org.au/stewardshipfirst

Pollinator Protection Initiative

We need to protect our precious pollinators in order for Australian ag to keep thriving and that's just what BeeConnected and the Seed Treatment Stewardship Strategy do. These programs ensure that pesticides are used responsibly and in a manner that minimises risk to pollinators.

Spray drift management

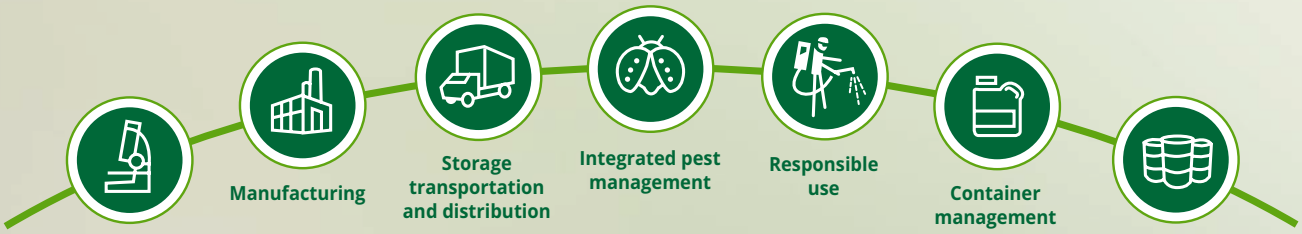
The application of crop protection products, whether from a ground boom sprayer, knapsack or the air, needs to be properly planned and carefully executed to minimise the risk of off-target chemical movement. MyAgCHEMuse and SprayBest provide up-to-date advice and tools to help manage spray drift and minimise risks to neighbouring crops and beneficial insects.

Resistance management

Crop pests, such as insects, weeds and diseases continue to be major threats to the productivity, profitability and sustainability of Australia's farming sector. To ensure the longevity and viability of agricultural chemical products, appropriate strategies to minimise resistance must be implemented.

Container management

Agsafe is CropLife's wholly owned stewardship subsidiary and was established to deliver the industry's flagship ***drum****MUSTER* and ChemClear™ programs. ***drum****MUSTER* facilitates the collection and recycling of eligible, clean and empty agricultural and veterinary chemical containers and ChemClear™ provides an avenue for the safe disposal of unwanted or obsolete agriculture and veterinary chemicals.



Ag Chemical Product Life Cycle

Biotechnology Plant Product Life Cycle

Gardening at home? Don't forget your pest control

With 2020 and 2021 bringing months of lockdown for many Australians, lots of people have chosen to use the extra time at home to get into the garden, start their own veggie patch and even undertake new landscaping projects.

While Australia's farmers have our food security covered for us, exercising your green thumb in the backyard is a great activity. For anyone embarking on this great hobby, it's very important to practice responsible pest and disease management in order to protect yourself, your future home harvest, and Australian farming.

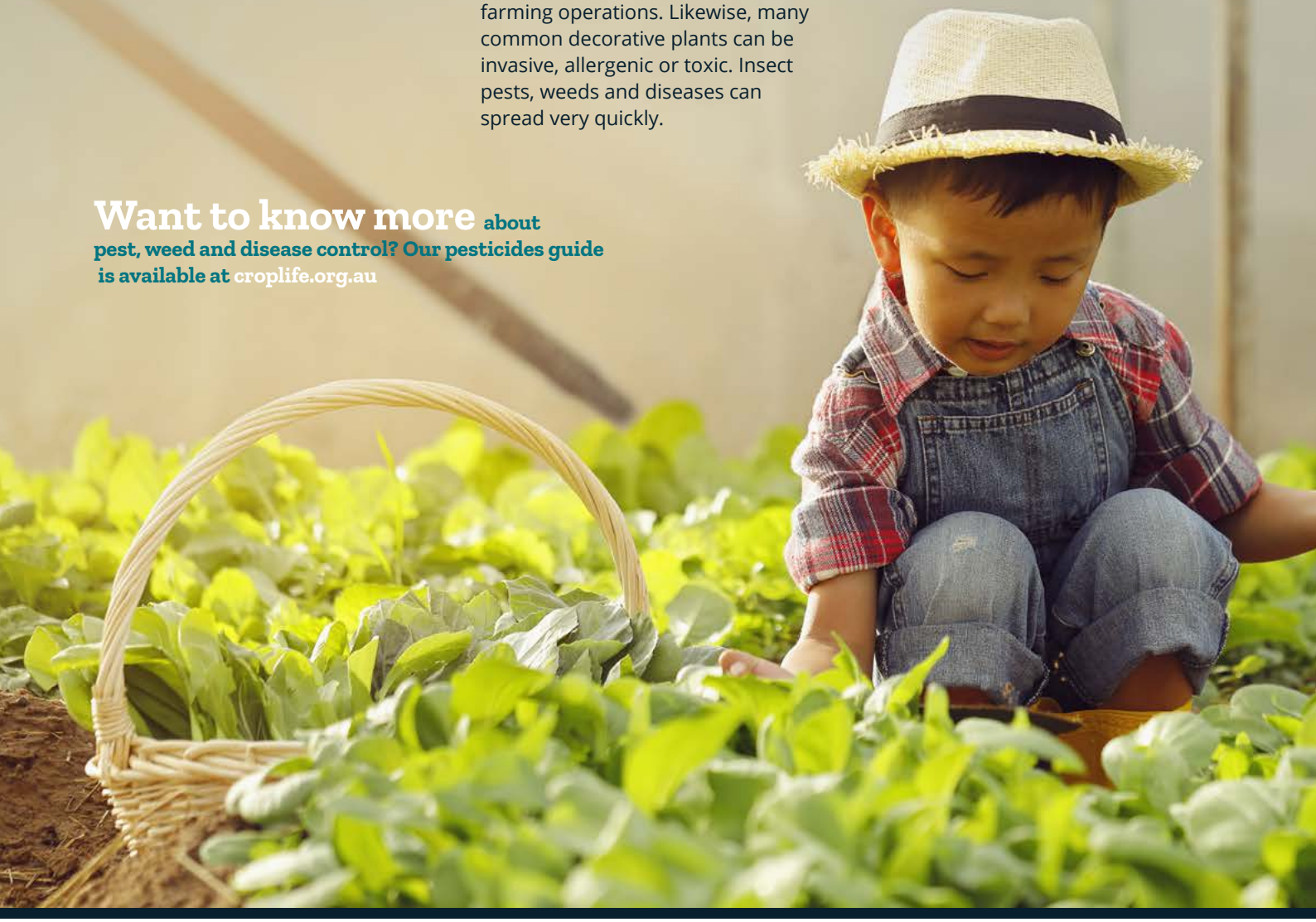
This is especially important for home gardeners who are in close proximity to farms, as untreated pests, weeds and diseases can have disastrous impacts if they spread from backyard gardens into major commercial farms. Particular care and attention is required as people return to normal work and aren't home as often to tend to their backyard veggie patch or fruit trees.

Most people wouldn't even think that their backyard veggie patch could possibly cause widescale issue, but pests and diseases are as attracted to produce there as they are to crops on farm. If left unchecked, these pests can pose real and serious threats to major farming operations. Likewise, many common decorative plants can be invasive, allergenic or toxic. Insect pests, weeds and diseases can spread very quickly.

So that home gardeners don't inadvertently threaten farms and our nation's food supply, they should equip themselves with appropriate pest management tools and consult their local garden centre for the best advice on what to use for different produce and how to use those products safely.

Australia's agriculture industry has played a huge role in getting all Australians through this pandemic thus far and it's important we all do our bit to support the great efforts of the nation's farmers.

Want to know more about pest, weed and disease control? Our pesticides guide is available at croplife.org.au



The ABCs of IBCs

As more farmers turn to using Intermediate Bulk Containers (IBCs or 1,000 litre shuttles) for their agvet chemical needs, many are still unsure about the right way to return IBCs once they've been used.

While ***drum****MUSTER* only accepts agvet containers between 1-205L, the good news is there are great returnable programs available for the sustainable disposal of used Intermediate Bulk Containers (IBCs).

Several proprietary programs, active in Australia, accept IBCs and enviro drums and CropLife member companies are connected to these programs as part of their commitment to world-leading stewardship.

Schutz Australia, Astron Sustainability and Tank Management Services are three programs that refurbish and recycle used IBCs across Australia and further discourage the practice of burning, burying or unsafely repurposing IBCs.

IBCs that have contained agvet chemicals should only be disposed of through a safe pathway. CropLife members are working to reduce the number of containers entering the distribution scheme, increase the recycling of containers and extend the awareness of current IBC collection services.

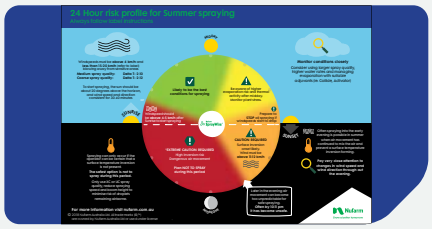
Resellers are encouraged to support industry waste-reducing initiatives by sourcing products that have a sustainable pathway for the disposal of IBCs and enviro drums.

Agsafe

CropLife members' news and events

Eight of the agri industry's standout growers, advisers and influencers have been named winners in the latest Syngenta Growth Awards, which were announced recently during a livestream event. The Syngenta Growth Awards, launched in 2014, recognise growers, farm advisers and industry innovators from across Australia and New Zealand, showcasing their contribution in one of the following categories: Productivity, Sustainability, Community & People and Innovator. Paul Luxton, Country Head for Syngenta ANZ, said, "the creativity, innovation, passion and resilience of people involved in agriculture is inspiring."

syngenta.com.au



As farmers around the country are starting to think about summer spraying, they must remember there are many factors that impact safe and effective spraying. Physical and inversion drift can move product away from a spray target and cause significant yet unintended crop damage to them and their neighbours. Nufarm's handy Spray Decision Wheel is a great resource to assist.

nufarm.com/au

From the avocado on your morning toast to the almond milk in your flat white, many of your favourite foods have a secret: they were made possible by the efforts of pollinators. To celebrate these unseen workers, Bayer has launched the Pollinator Pack. Whether it's fleets of managed honeybee hives working overtime in almond or apple orchards, or native birds, bats, flies and bugs helping to bulk up the flowers in your garden, pollinators of all stripes have a role to play in helping the planet thrive—and helping you get the most variety at the grocery store.

bayer.com.au

Sustainability is an important part of the culture at BASF Australia and New Zealand. As part of their efforts to contribute to a more sustainable future, they have launched a new webpage which outlines the sustainable solutions that will contribute to the company's global commitment to achieve net zero emissions by 2050.

basf.com/au

If sustainable agriculture could speak, what would it say? UPL is bringing people together to give a voice to the voiceless and change the game for sustainable food systems worldwide. Listen to the UPL podcast series by searching UPL Global where you listen.

upl-ltd.com

Twelve outstanding professionals from across the Nutrien Ag Solutions business have been selected for the 2021 Nutrien Ag Solutions Women's Leadership Program. "Nutrien Ag Solutions is determined to ensure our business is a diverse and inclusive place for everyone and this program is one of the ways we can help create more opportunities for women to develop professionally and personally as they progress their careers in agriculture," said Nutrien Ag Solutions Managing Director Rob Clayton.

nutrienagsolutions.com.au

Elders Albury senior agronomist Chris (Desi) Toohey, has taken out a top agriculture award from Syngenta ANZ for his extensive work in tackling herbicide resistance. Chris says herbicide resistance has been increasing dramatically and can wreak havoc on yields if not managed correctly.

elders.com.au

ADAMA

Adama's now infamous #2wheeltrialtour21 has been held for its fourth year in WA. This unique way for growers to view crop trial sites has been growing in popularity since its inception in 2018.

adama.com/australia

FMC

FMC celebrated Inclusion Month in October. #SeeYourselfBeYourself at FMC is not only a tagline but a mindset that all employees are encouraged to embrace. The company celebrated its third annual Inclusion Month by recognising the employees who comprise their diverse workforce across regions, countries and cultures.

fmccrop.com.au

CORTEVA agriscience

Corteva Agriscience announced the winners in its Climate Positive Leaders Program, a nomination-based farmer and grazier recognition initiative designed to showcase early adopter producers who are successfully implementing, scaling and sharing climate positive practices. One of the nine winners was Jake Ryan from Manjimup, WA, who was nominated by AUSVEG Australia for the holistic grazing, minimal tillage, cover cropping and mineral nutrition program he runs. To read more about Jake and the other winners visit

corteva.com.au/media-center

DGL

DGL Manufacturing, an expert in chemical development and manufacturing, has joined CropLife Australia. Like all CropLife members, DGL Manufacturing is committed to quality control and assurance across their manufacturing solutions. With DGL Manufacturing joining the national peak industry body it reinforces that CropLife represents the best of the plant science industry.

dglgroup.com

Mr Paul Luxton, Country Head and Managing Director, ANZ, for Syngenta, has been appointed for a sixth term as President of Australia's national peak industry organisation for the plant science sector, CropLife Australia.

Mr Luxton will be joined on CropLife's Executive by fellow industry leaders with an extensive range of expertise and vast wealth of knowledge:

- Mr Damien Ryan, Managing Director, Sipcam Pacific Australia as Vice President (Crop Protection and Stewardship)
- Mr Joerg Ellmanns, Managing Director, Bayer Crop Science as Vice President (Crop Biotechnology)
- Mr Gavin Jackson, Head of Agricultural Solutions (Australia and New Zealand), BASF Australia as Chair of the Corporate Governance Committee

In addition to the Executive, the following will serve as Directors on the CropLife Australia Board for 2021-22:

- Ms Kristina Hermanson, Managing Director ANZ and ASEAN, FMC Australasia Pty Ltd
- Mr Darrin Hines, Chief Executive Officer, ADAMA Australia
- Mr Rob Kaan, Managing Director Australia/NZ/Japan/Korea, Corteva Agriscience
- Mr Peter O'Keeffe, Commercial General Manager, Nufarm Australia Limited
- Mr Brett Ryan, Managing Director, Sumitomo Chemical Australia Pty Limited

CropLife Australia

Representing the best of the plant science industry

CropLife Australia is the national peak industry organisation representing the plant science sector in Australia.

CropLife's members are the world-leading innovators, developers, manufacturers and formulators of crop protection and crop biotechnology products.

The plant science industry, which enables more than $20 billion a year of Australian agricultural production, provides products to protect crops against pests, weeds and diseases, as well as developing crop biotechnologies key to the nation's agricultural productivity, profitability and sustainability. CropLife is part of the plant science industry's 91 country international federation.

To find out more visit: croplife.org.au

P 02 6273 2733 @CropLifeOz E info@croplife.org.au

CropLife Australia