



AWC 2022 Program

SUNDAY 25 SEPTEMBER 2022

- 07:00 - 18:00 | Exhibition booth build and Exhibitor Move-in - Room: Ian McLachlan
- 15:00 - 18:00 | **Speaker Support** - Room: William Magarey North
- 15:00 - 19:30 | **Registration** - Room: William Magarey North
- 18:30 - 19:30 | **Welcome Reception** - Room: Ian McLachlan

Sponsored by:



MONDAY 26 SEPTEMBER 2022

- 08:00 - 18:00 | **Registration and Poster Display** - Room: William Magarey North
- 08:00 - 17:00 | **Exhibition** - Room: Ian McLachlan
- 08:00 - 17:00 | **Speaker Support** - Room: William Magarey North

OPENING PLENARY - Room: William Magarey West

Chair: Chris Brodie, WMSSA President

- 08:30 | **Welcome Chris Brodie**
- 08:40 | **Official Opening**
- 08:50 | **Welcome to Country**
- 09:00 | **Plenary 1:** Jane Catford, King's College London, Addressing context dependence in plant invasions
- 09:35 | **Plenary 2:** Rick Lewellyn, CSIRO, A global to local perspective on current agricultural weed issues
- 10:05 | **Plenary 3:** Robyn Cleland, Australian Chief Environmental Biosecurity Officer, DAFF, The future of environmental biosecurity including weeds
- 10:25 | Morning tea and Exhibition - Room: Ian McLachlan

MONDAY 26 SEPTEMBER 2022 Continued

11:00-12:40 Concurrent Sessions 1A - 1C

1A Environmental Biosecurity Related Session: Environmental Weed Control Successes and Lessons

Chair: Rachel Melland

Room: William Magarey West

26	11:00	Using a Multi-pronged Strategy for Wheel Cactus control in Central Victoria., Lee Mead, Tarrangerwer Cactus Control Group Inc.
267	11:20	Cottonbush invasion in Western Australia: ecology and social perspectives, Dr Mariana Campos, Ms Kathryn Batchelor, CSIRO
197	11:40	Boneseed and bitou bush in Western Australia: the tale of two Chrysanthemoides, Ms Kathryn L. Batchelor, CSIRO
274	12:00	Accelerating hawkweed eradication: Innovation, collaboration and persistence, Mark Hamilton, NSW National Parks and Wildlife Service
115	12:20	A decade of new weed records in South Australia: an overview from the State Herbarium of South Australia, Chris Brodie, Department for Environment and Water SA

1B Global, New Zealand and Australian Herbicide Resistance Perspectives & Farming System Behaviour Change Over Time

Chair: Trevor James

Room: William Magarey East

8	11:00	From tactical to strategic herbicide use: On the systematic challenges of herbicide resistance management in New Zealand's arable sector, Dr Martin Espig, AgResearch
73	11:20	Differences Between New Zealand and Australia in Development of Herbicide Resistance, Dr Kerry Harrington, Massey University, New Zealand
79	11:40	A macroecological perspective of herbicide resistance in weeds, Philip Hulme, Bio-Protection Research Centre, Lincoln University
231	12:00	Are you sure? A test of how herbicide resistance testing can inform weed management decisions, Masood Azeem, CSIRO
168	12:20	Herbicide resistance in perennial pasture systems – The horse has bolted, Ms Jo Powells, South East Local Land Services

1C Social Research Towards Weed Control — Speakers and Q&A Session

Chair: John Virtue

Room: Ian McLachlan

188	11:00	Scaling up and applying qualitative social research on lay knowledge in invasive plant management, Dr Nicholas Gill, University Of Wollongong
191	11:20	Social successes in weed management, Dr Sonia Graham, University of Wollongong
213	11:40	Outdoor recreation and plant biosecurity practice in the Snowy Mountains region of NSW Australia, Ms Jen Smart, University Of Wollongong
	12:00	Why haven't we fixed this weed problem yet- technical or social limits?, Cameron Allen Meat & Livestock Australia
	12:20	Dedicated Q&A session, often with additional colleagues

12:40 - 13:40 | Lunch and Exhibition - Ian McLachlan Room

MONDAY 26 SEPTEMBER 2022 Continued

13:40-15:00 Concurrent Sessions 2A - 2C

2A Biological Control - Australia & NZ — Speakers and Q&A Session

Chair: Shauna Potter

Room: William Magarey West

78	13:40	A regional perspective on NZ's National Collective funding model for Biocontrol of weeds research, Mr Shane Hona, Bay of Plenty Regional Council
152	14:00	Validating the New Zealand Biocontrol Risk Model for Australia, Jackie Steel, Invertebrate & Weed Sciences, Agriculture Victoria Research Division, Department of Jobs, Precincts and Regions, AgriBio
6	14.20	Assessing the risks of biological control to crop and ornamental cultivars, Mr Greg Lefoe, Agriculture Victoria
	14.40	Dedicated Q&A session, often with additional colleagues

2B Weed Control in Cotton Farming Systems — Speakers and Q&A Session

Chair: Michael Widderick

Room: William Magarey East

230	13:40	Glyphosate resistance in Australian cotton farming systems, What are the surveys telling us? The then and Now., Mr Eric Koetz, Nsw Dpi
224	14:00	Effectiveness of glufosinate, dicamba and clethodim on glyphosate-resistant and susceptible populations of five key weeds in Australian cotton systems, Dr Jeff Werth, Dr Michelle Keenan, Queensland Department Of Agriculture And Fisheries
169	14.20	Using the critical period for weed control to establish a weed threshold in irrigated cotton, Dr. Graham Charles, Developing a multispecies weed control threshold model for irrigated cotton
	14.40	Dedicated Q&A session, often with additional colleagues

2C Community Coordination for Weed Management in Arid Landscapes — Speakers and Q&A Session

Chair: Kathryn Batchelor

Room: Ian McLachlan

149	13:40	A community approach to tackling Hudson pear., Jo-Anna Skewes, Andrea Fletcher, Northern Slopes Landcare Association and Castlereagh Macquarie County Council
137	14:00	Buffel grass invasion across arid lands: evidence of impacts on ecological and cultural values, Ms Ellen Ryan-Colton, Charles Darwin University
109	14.20	Indigenous Rangers and Alinytjara Wilurara Landscape Board helping to protect the Great Victoria Desert from Buffel grass invasion, Adam Wood, Alinytjara Wilurara Landscape Board and Far West Coast Aboriginal Corporation Rangers **(VIRTUAL)
	14.40	Dedicated Q&A session, often with additional colleagues

15:00: Afternoon Tea and Exhibition - Room: Ian McLachlan

MONDAY 26 SEPTEMBER 2022 Continued

15:30-17:10: Concurrent Sessions 3A - 3C

3A Biocontrol Successes, Methods & Modelling - Speakers and Q&A Session

Chair: Susan Ivory

Room: William Magarey West

211	15:30	Lantana population genomics offers insights for improving biological control, Dr Patricia Lu-Irving, Australian Institute Of Botanical Science
160	15:50	Biological control of Navua sedge (<i>Cyperus aromaticus</i>) in Australia, Dr Kunjithapatham Dhileepan, Queensland Department of Agriculture and Fisheries
76	16.10	Controlling cacti with cochineal in the SA Arid Lands, Mr Matthew Westover, Natural Resources SA Arid Lands
	16:30	Dedicated Q&A session, often with additional colleagues
	16:50	Close

3B Cropping Weed Threats, Weed Biology and Seed Dormancy — Speakers and Q&A Session

Chair: Jason Emms

Room: William Magarey East

163	15:30	Biology of Globe Chamomile (<i>Oncosiphon piluliferum</i> (L.f.) Källersjö), Ms Alexandra Douglas, Department of Primary Industries and Regional Development WA
200	15:50	Biology of feathertop Rhodes grass (<i>Chloris virgata</i>), Professor Bhagirath Chauhan, The University Of Queensland
402	16.10	Resistance surveys and commercial testing services – similarities and differences for annual ryegrass (<i>Lolium rigidum</i>) across south-eastern Australia, Peter Boutsalis, University of Adelaide
	16:30	Dedicated Q&A session, often with additional colleagues
	16:50	Close

3C CAWS Workshop Series: Weed Remote Sensing Forum

Facilitator: Hillary Cherry

Room: Ian McLachlan

184	15:30	Weed managers guide to Remote Detection: Understanding opportunities and limitations of technologies for remote detection of weeds, Dr Jane Kelly, Charles Sturt University
	15:50	CAWS Workshop Series: Weed Remote Sensing Forum A Weeds Remote Sensing Community of Practice (CoP) is being developed to share ideas and foster collaboration. This interactive forum offers large and small group discussion and expert Q&A on a range of issues relating to detection and mapping of weeds in landscapes - including data acquisition, storage and analysis; information sharing and Intellectual Property. We will discuss emerging technologies, limitations, partnerships and the future of weed remote sensing. Join us and join the CoP!
	17:30	Close

TUESDAY 27 SEPTEMBER 2022

08:30 - 17:00 | **Registration and Poster Display** - Room: William Magarey North

08:30 - 17:00 | **Exhibition** - Room: Ian McLachlan

08:30 - 17:00 | **Speaker Support** - Room: William Magarey Room North

PLENARY - Room: William Magarey West

Chair: Raelene Kwong, CAWS Vice President

08:50 | **Welcome Raelene Kwong, CAWS Vice President**

09:00 | **Plenary 4:** CAWS Oration: Sonia Graham, University of Wollongong, Weeding together? The social science of weed management

09:30 | **Presentation:** Presentation from Sponsor FMC

09:32 | **Plenary 5:** Presentation of CAWS Award, CAWS Vice President Raelene Kwong

09:45 | Move to breakout sessions

9:50- 10:50 Concurrent Sessions 4A - 4D

4A Environmental Biosecurity Related Session: Weed Invasion, Prevention and Eradication

Chair: Chris Brodie

Room: William Magarey West

4B GRDC Symposium Stream: Weed Impacts in the Australian Grains Industry

Chair: Jason Emms

Room: William Magarey East

4C Strategic Planning and Analysis to Support Coordinated Weed Control

Chair: Richard Price

Room: Ian McLachlan Room

4D CAWS Workshop Series: Biosecurity Commons

Facilitator: Paul Tudman

Room: Premiership Suite

116	09:50	Progress in the eradication of <i>Miconia calvenscens</i> from Australia, Simon Brooks, Biosecurity Queensland, Department of Agriculture and Fisheries, Tropical Weeds Research Centre
172	10:10	Horizon scan for incoming weeds to Queensland, Australia, Dr Olusegun Osunkoya, Dept of Agriculture and Fisheries
155	10:30	Making the most out of a sticky situation - acting on Sticky Nightshade as an emerging threat., Marita Sydes, Central Tablelands Local Land Services

09:50	GRDC Weeds Strategic Update
134 10:10	Competition from great brome and barley grass reduces wheat yield, Harmohinder Dhammu, Department of Primary Industries and Regional Development
243 10:30	Predicting profitability of summer weed control timing and impact on crop yield potential: Summer, Dr Yvette Oliver, CSIRO

176 09:50	A collaborative and national approach for understanding the distribution of weeds in Australia, Katherina Ng, ABARES
129 10:10	The evolution of environmental weed management on Auckland's regional parks., Holly Cox, Auckland Council
180 10:30	Integrated Community and Agency-Led Wilding Conifer Management across the Marlborough Region, New Zealand, Mr Jono Underwood, Marlborough District Council

CAWS Workshop Series: Biosecurity Commons
Biosecurity Commons is a cloud-based decision-support platform being developed for modelling and analysing invasive species biosecurity risk and response. We will introduce you to the platform and demonstrate our work on the risk mapping and dispersal modelling workflows. We will highlight our collaboration with the NSW Hawkweed Eradication Program.

10:50 | Morning Tea and Exhibition - Room: Ian McLachlan

TUESDAY 27 SEPTEMBER 2022 Continued

11:20-12:40 Concurrent Sessions 5A - 5D

5A Environmental Biosecurity Related Session: Managing Coastal Weed Threats to Habitats and Amenity — Speakers and Q&A Session

Chair: Susan Ivory

Room: William Magarey West

83	11:20	Genetic structure of the invasive coastal weed <i>Euphorbia paralias</i> (sea spurge) in Australia, Dr. Gavin Hunter, CSIRO
204	11:40	Flying to the Rescue of Shorebird Habitat in the Coorong NP - Turning the Tide on African Boxthorn Invasion, Mr Robbie Andrew, Limestone Coast Landscape Board
210	12:00	Six years managing a created Saltmarsh, Ms Geraldene Dalby-Ball, Dragonfly Environmental
	12.20	Dedicated Q&A session, often with additional colleagues

5B GRDC Symposium Stream: Understanding Weeds in Grains

Chair: Kerry Harrington

Room: William Magarey East

179	11:20	Effect of emergence timing on growth and phenotypic plasticity of feathertop Rhodes grass (<i>Chloris virgata</i> Sw.) in Southern New South Wales, Dr Md Asaduzzaman, NSW Department of Primary Industries
75	11:40	Impact of selection and breeding above-ground vigour on below-ground traits associated with weed competitiveness in wheat, Mister Pieter-Willem Hendriks, Carles Sturt University and CSIRO
3	11:40	Strategic Tillage in a No-Tillage Conservation Cropping System Impacts Wild oat Populations, Dr Mohammad Ali, The University of Queensland
185	12:20	Six years of crop competition research in the northern grains region – key trends in impact on weed and crop growth, Dr Michael Widderick, Queensland Department Of Agriculture And Fisheries

5C Ornamental & Nursery Plant Weed Impacts & Strategies

Chair: Shauna Potter

Room: Ian McLachlan Room

193	11:20	Ornamental environmental weeds were marketed earlier and for longer than non-weeds in New Zealand, Jennifer L Bufford, Lincoln University
205	11:40	The science of prevention: Risk assessment tools for ornamental plants underpin the Plant Sure Scheme and the Gardening Responsibly Initiative, Aimee Freimanis, Gardening Responsibly Initiative
	12:00	CAWS Workshop Series: Gardening Responsibly Eco-label World Café - Preventing Future Weeds. NSW DPI & DPE Join us as we launch the Gardening Responsibly Movement! Gain an understanding of the practical mechanisms and insights to influence supply and drive demand for ornamental plants with a low invasion risk, including the new plant risk assessment tools that underpin the Scheme. Topics: Risk Assessment Deep Dive; Engagement, Brand & Marketing; Industry Uptake and Biosecurity Duty.

5D Weeds of Pasture Systems

Chair: Trevor James

Room: Premiership Suite

89	11:20	Late-staged weed-control options are significantly reducing annual ryegrass seed production, Dr Yaseen Khalil, Australian Herbicide Resistance Initiative (AHRI) / School of Agriculture and Environment (SAGe)/ The University of West
196	11:40	Finding fungi to fight invasive grasses: developing a mycoherbicide for GRT in Australia, Dr Tracey Steinrucken, CSIRO Health & Biosecurity
251	12:00	Integration of herbicides and fertilizer application to improve production in Giant rat's tail grass (GRT) infested pastures, Dr Shane Campbell, The University Of Queensland
233	12.20	A century of weed change in New Zealand's forage seed multiplication industry, Jesse Rubenstein, Lincoln University

12:40 - 13:40 | Lunch and Exhibition - Room: Ian McLachlan

TUESDAY 27 SEPTEMBER 2022 Continued

13:40-15:20 Concurrent Sessions 6A - 6D

6A Environmental Biosecurity Related Session: Managing Weeds in Freshwater Ecosystems

Chair: Henry Rutherford

Room: William Magarey West

6B GRDC Symposium Stream: Control Tactics for Weeds in Grain Production

Chair: Michael Widderick

Room: William Magarey East

6C Advances in Weed Detection Technologies and Eradication Programs

Chair: Rachel Melland

Room: Ian McLachlan Room

6D CAWS Workshop Series: Coordinating Community Led Action On Unpalatable Grasses. CAWS Workshop Series Presented by PIRSA.

Chair: Shannon Robertson

Room: Premiership Suite

80	13:40	Does awareness of invasive freshwater plants mitigate the dispersal risk posed by lake users?, Philip Hulme, Bio-Protection Research Centre, Lincoln University	219	13:40	Using a 25 W diode laser to control annual ryegrass and turnipweed., Mr Guy Coleman, University Of Sydney	269	13:40	WeedScan - a website and smartphone app for identifying, reporting and managing priority weeds in Australia, Miss Claire Lock, New South Wales Department of Primary Industries	Explore the best ways to motivate and coordinate community led control of unpalatable invasive grasses. Discussion facilitated by PIRSA.
82	14:00	Control of the emerging aquatic weed Amazon frogbit with flumioxazin, Ms Bahareh Shahrabi Farahani, Queensland Government	32	14:00	Biological control of priority weeds of cropping systems in Australia: A viable proposition?, Raghu Sathyamurthy, CSIRO Health & Biosecurity	178	14:00	Digital 3D weed models - an innovative identification tool for early detection., Ms Rachel Klyve, Rachel Klyve, Proprietor	
175	14.20	Implications of seedbank dynamics in managing aquatic weeds, Ms Hoang Nguyen, University Of Queensland	70	14.20	Performance and weed suppressive potential of winter cover crops in southern Australia, Dr Saliya Gurusinghe, Charles Sturt University	241	14.20	Implementation of a rapid response biosecurity program to eradicate a novel invasive species (<i>Bocconia frutescens</i>) in NSW., Mr Terry Inkson, MidCoast Council	
125	14.40	Cabomba caroliniana eradication - integrated weed control success in the NT, Chris Collins, Department of Environment and Natural Resources - Northern Territory Government	194	14.40	Integrated Weed Management – alternative strategies for weed control in pulses, Dr Navneet Aggarwal, South Australian Research and Development Institute	220	14.40	The threat of black knapweed (<i>Centaurea x moncktonii</i>) on the Northern Tablelands of NSW, Dr Graham Charles, NSW DPI	
69	15:00	Interactions between the native <i>Azolla filiculoides</i> and exotic <i>Salvinia molesta</i> , Dr Guyo Gufu, Macquarie University	20	15:00	Developing strategies to mitigate and manage resistance to key herbicides: A project overview, Dr Jenna Malone, University of Adelaide	81	15.00	Significant New Weed Detections in the Northern Territory 2017-2021 – consequences for management, Mr Louis Elliott, NT Department of Environment and Natural Resources	
			214	15:10	Winter cover crops and their weed suppressive abilities, Dr Asad Shabbir, University of Sydney				

15:20: Afternoon Tea and Exhibition - Room: Ian McLachlan

TUESDAY 27 SEPTEMBER 2022 Continued

16:00-17:20: Concurrent Sessions 7A - 7D

7A Rangeland Ecosystem Weed Management

Chair: Susan Ivory

Room: William Magarey West

140	16:00	Low-volume high-concentration applications of glyphosate to control gamba grass (<i>Andropogon gayanus</i>), Mrs Melissa Setter, DAF (Biosecurity Queensland)
263	16.20	The advancing front of invasive lovegrasses across Australia's rangelands, Mrs Marie Vitelli, Agforce
182	16:40	Evaluation of Di-Bak® Herbicide Capsule System for Control of Chinese Apple (<i>Ziziphus mauritiana</i>) in north Queensland, Ms Ciara O'Brien, The University of Queensland
262	17.00	Monitoring <i>Striga asiatica</i> seedbank for eradication success, Anna Williams, Biosecurity QLD

7B - GRDC Symposium Stream: A Grains Farming Systems Approach to Managing Weeds

Chair: Alex Douglas

Room: William Magarey East

195	16:00	The interaction between wheat (<i>Triticum aestivum</i>) establishment timing and pre-emergent herbicides choice on annual ryegrass (<i>Lolium rigidum</i> Gaud.) growth and competition., Dr Mike Ashworth, Australian Herbicide Resistance Initiative (ahri)
227	16.20	Phytotoxicity thresholds for crop seedlings exposed to soilborne residues of diuron and imazapic are regulated by soil type, Michael Widderick, Queensland Department Of Agriculture And Fisheries, Dr Michael Rose, NSW Department of Primary Industries,
127	16:40	Demonstrating integrated weed management strategies to control barley grass in low rainfall zone farming systems , Mrs Amanda Cook, South Australian Research and Development Institute - Minnipa Agricultural Centre
189	17.00	WeedSmart - changing the face of communications & learning in Australian agriculture, Ms Jessica Strauss, WeedSmart, The University of WA

7C Weed Surveillance Technology Uses & Social Values

Chair: Chris Brodie

Room: Ian McLachlan Room

171	16:00	Weed Wide Web: Surveillance of Online Trade in Declared Plants, Mr Jacob Maher, The University Of Adelaide
183	16.20	Management of the online trade of <i>Salvinia molesta</i> in Victoria: detection, identification and eradication., Victoria Byrne, Agriculture Victoria
35	16:40	Collaborating to combat Illegal Online Trade of Noxious Weeds: 'Bridging the borders', Dr Zachariah Munakamwe, Agriculture Victoria
153	17.00	New threats, old foes: problem weeds for farmers, Dr Nyree Stenekes, Australian Bureau of Agricultural and Resource Economics and Sciences, Department of Agriculture, Water and the Environm **(VIRTUAL)

7D Novel Chemistries, Synthetic Herbicides & Weed Enzymes

Chair: Kerry Harrington

Room: Premiership Suite

103	16:00	Novel chemistries in Eucalyptus essential oils – a nature's gift for herbicide discovery, Dr Hanwen Wu, NSW Department of Primary Industries
256	16.20	Herbicidal Activity of <i>Digera muricata</i> against <i>Melilotus indicus</i> and Identification of Allelochemicals, Dr. Muhammad Akbar, University of Gujrat
235	16:40	A potentially sustainable weed control method using urease enzymes extracted from weeds, Professor Md Mizanur Rahman, University of South Australia
	17:00	Dedicated Q&A session, often with additional colleagues

17:20 | Close

19:00 | Conference Dinner - Adelaide Oval, Room: William Magarey East & West

Sponsored by:



WEDNESDAY 28 SEPTEMBER 2022

08:30 - 15:30 | **Registration and Poster Display** - Room: William Magarey North

08:30 - 15:30 | **Exhibition** - Room: Ian McLachlan

08:30 - 15:00 | **Speaker Support** - Room: William Magarey North

PLENARY - Room: William Magarey West

Chair: Rachel Melland, WMSSA and CAWS

08:50 | **Welcome Rachel Melland, CAWS and WMSSA**

09:00 | **Plenary 6:** Andy Shepard, CSIRO & DAFF, What might weed management look like by 2030?

09:25 | **Plenary 7:** Allan Sumner, Clem Newchurch and Quali Newchurch, Aboriginal Land Management, including Weeds and Fire

09:45 | **Plenary 8:** Fiona Fraser, Address from the Threatened Species Commissioner, DCCEEW

10:15 | **Plenary 9:** Shalan Scholfield, DAFF, Developing the National Established Weed Priorities Framework

10:30 | Morning Tea and Exhibition - Room: Ian McLachlan

10:50-12:30 Concurrent sessions 8A - 8D

8A Fire and Weeds: Learnings from the 2019/20 Bushfires & Planning for Next Time

Chair: Rachel Melland

Room: William Magarey West

8B Area Wide Management of Weeds

Chair: Jason Emms

Room: William Magarey East

8C Weeds Biosecurity Risk Assessment Tools

Chair: Shauna Potter

Room: Ian McLachlan

8D Weeds in Sugarcane Production Systems — Speakers and Q&A Session

Chair: Jeff Werth

Room: Premiership Suite

203	10:50 Supporting weed management including early invader weeds during bushfire recovery in Victoria after the summer of 2019/2020, Ms Kate Blood, DELWP, Victoria	239	10:50 Beyond the boundary: implementing an area-wide weed management approach for mobile crop weeds, Dr Rick Llewellyn, CSIRO	144	10:50 Developing practical tools to support biosecurity legislation, Dr Matt Sheehan, Wild Matters Pty. Ltd.	53	10:50 Herbicide use in sugarcane and Great Barrier Reef: Can growers reduce their pesticide losses via run, Ms Emilie Fillols, Sugar Research Australia
252	11:10 Navigating Bushfire Recovery in the Adelaide Hills, Katrina Warner, Catherine Austin, Hills And Fleurieu Landscape Board	208	11:10 Opportunities for area-wide management of cropping weeds: a survey of growers in Australia, Silja Schrader, University of Wollongong	257	11:10 A new post-border weed risk analysis system for weed biosecurity, Dr Paul Downey, PD Consulting	146	11:10 Management of Navua sedge (Cyperus aromaticus): a role of competition using two pasture species, Dr Boyang Shi, Biosecurity Queensland, Department of Agriculture and Fisheries, Queensland Government, Australia
265	11:30 Unexpected outcomes on the road to recovery after the Black Summer Fires - and its mostly Australian natives!, Alanah Murrell, PIRSA	242	11:30 A population genetics approach to evaluating weed movement and the role for area wide weed management, Dr James Hereward, The University Of Queensland	181	11:30 Understanding the system matters – Stepping back for general surveillance, Dr Jenifer Ticehurst, Abares	255	11:30 Precise Robotic Weed Spot-Spraying for Improved Environmental and Economic Outcomes in the Sugarcane Industry, Dr Mostafa Rahimi Azghadi, James Cook University
	11:50 Leeton Lee, Firesticks Alliance Aboriginal Corporation	244	11:50 Glyphosate resistance in mobile weeds across land uses: implications for area wide management of weeds, Christopher Preston, University of Adelaide	51	11:50 A tool to assess knowledge and risk level of Exotic Perennial Grass invasion in NSW native communities, Miss Julia Rayment, University of Wollongong		11:50 Dedicated Q&A session, often with additional colleagues
	12:10 Q&A session leading to Fire & Weeds afternoon workshop in session 10D	234	12:10 Increasing cropping systems resilience to reduce the costs of new weed and resistance arrivals, Tim Capon, CSIRO	247	12:10 Determining new Weeds of National Significance, Dr John Virtue, Wild Matters Pty. Ltd.		

12:30 - 13:30 | Lunch and Exhibiton - Room: Ian McLachlan

WEDNESDAY 28 SEPTEMBER 2022 Continued

13:30-14:50 Concurrent sessions 9A - 9D

9A Biocontrol Host-Specificity Testing & Host Ranges

Chair: Susan Ivory

Room: William Magarey West

154	13:30	Biological control of African Lovegrass (<i>Eragrostis curvula</i>): native-range surveys in Africa, Dr Guy Sutton, Centre for Biological Control, Department of Zoology and Entomology, Rhodes University, South Africa
16	13:50	Listronotus frontalis (Curculionidae: Coleoptera): host-specificity testing., Dr Umar Lubanga, Agriculture Victoria
94	14:10	The blackberry cane-boring sawfly – what does its DNA tell us about its host specificity?, Dr Raelene Kwong, Agriculture Victoria, Department of Jobs, Precincts and Regions
229	14:30	A phylogeographic role in host-specificity testing – a case study of <i>Acacia auriculiformis</i> herbivores, Mr Muhammad Nawaz, Weed Research Unit, Department Of Primary Industries, New South Wales Industries
38	14:50	Biological control of <i>Cabomba caroliniana</i> : biology and host range of the cabomba weevil <i>Hydrotimetes</i> , Dr Nagalingam Kumaran, CSIRO

9B Herbicide Resistance Extent & Mechanisms — Speakers and Q&A Session

Chair: Rick Lewellyn

Room: William Magarey East

63	13:30	Herbicide resistance status of barley grass (<i>Hordeum glaucum</i>) populations in the low rainfall zones, Gurjeet Gill, University of Adelaide
187	13:50	Identification of field resistance to HPPD-inhibiting herbicides in wild radish, Dr Roberto Busi, Australian Herbicide Resistance Initiative
268	14:10	Resistance surveys and commercial testing services – similarities and differences for wild oats, barley grass and brome grass across south eastern Australia, Dr John Broster, Charles Sturt University
215	14:30	Dinitroaniline herbicide resistance evolution in <i>Lolium rigidum</i> , Dr Qin Yu, AHRI, University of Western Australia **(VIRTUAL)
	14:50	Dedicated Q&A session, often with additional colleagues

9C CAWS Workshop Series: DAFF National Established Weed Priorities

Chair: John Virtue

Room: Ian McLachlan

Workshop title: Towards a National Established Weed Priorities Framework (NEWP)	
Help shape the future of established weed management! Join us in conversation as we present the NEWP Framework and invite discussion on the implementation of key elements. Building on the successes of 20 years of WONS, NEWP aims to reinvigorate WONS, whilst introducing Weed Issues of National Significance and a National Established Weed Action List as new tools in the management of Australian established weeds.	

9D Crop Competition & Strategic Tillage for Weed Control — Speakers and Q&A Session

Chair: Trevor James

Room: Premiership Suite

186	13:30	Strategic tillage for soil amelioration – how does it change the weed management strategy?, Dr Catherine Borger, Department Of Primary Industries And Regional Development
142	13:50	The role of crop competition in managing early emerging summer weeds in wheat, Dr Asad Shabbir, University of Sydney
55	14:10	Effect of combinations of sowing time, seed rate and herbicides on ryegrass management in faba beans, Mr Ben Fleet, School of Agriculture, Food and Wine, The University of Adelaide
	14:50	Dedicated Q&A session, often with additional colleagues

15:10: Afternoon Tea and Exhibition - Room: Ian McLachlan

WEDNESDAY 28 SEPTEMBER 2022 Continued

15:30-16:50 Concurrent Sessions 10A - 10D

10A Biocontrol Establishment & Monitoring

Chair: Greg Lefoe

Room: William Magarey West

10B Weed Control in Cropping Systems

Chair: Catherine Borger

Room: William Magarey East

10C Looking Forward: Weed Threat Prevention & Abatement

Chair: Shauna Potter

Room: Ian McLachlan

10D CAWS Workshop Series: Fire & Weeds Looking Forward Workshop & Indigenous Leaders Panel: Expecting Increased Fire Impacts Under Climate Change - Developing Actions Towards National Priorities & Coordination

Chair: Rachel Melland & Henry Rutherford

Room: Premiership Suite

222	15:30	Parkinsonia biological control: Establishment, spread and impact of UU1 and UU2 across northern Australia, Dr Michelle Rafter, CSIRO
212	15:50	Pheromone trapping for monitoring the establishment and spread of Eueupithecia cisplatensis and E. vollonoides, biological control agents for Parkinsonia aculeata. , Ms Cody-Ellen Murray, The University of Queensland
237	16:10	First release and establishment of the biological control agent Cecidochares connexa for the management of Chromolaena odorata (Siam weed) in Australia., Mrs Michelle Franklin, Qld Dept Agriculture & Fisheries
23	16:30	A thorny tale: Cylindropuntia pallida (Hudson pear) biocontrol in New South Wales, Australia, Dr Andrew McConnachie, New South Wales Department of Primary Industries

248	15:30	Sensitivity of lupin (Lupinus angustifolius) and other plant species to Overwatch® Herbicide (bixlozone) when applied at rates simulating spray drift exposure, Marco Montagna, FMC Australasia Ltd
266	15.50	Weed seed bank mitigation using cover crops in Maize (Zea mays), Ms Deborah Hackell, Agresearch Ltd
39	16.10	Gene technologies in weed management: what we need to know?, Dr Nagalingam Kumaran, CSIRO
253	16.30	Voraxor® Herbicide: An Alternative to Paraquat in Fallow Double-Knock - Managing Glyphosate and Paraquat Resistant Weeds., Mr Russell Ison, BASF

68	15:30	Transforming Wild and Weedy Australia: Outcomes of the 2020 Fenner Conference on the Environment, Dr Sonia Graham, University of Wollongong
118	15.50	Prevention is best: Protecting Australia from future environmental weed threats, Hillary Cherry, NSW Dept of Planning and Environment
11	16.10	Abating the threat of exotic vines and scramblers in Threatened Ecological Communities, Mr Adam Bernich, School of Earth, Atmospheric and Life Sciences, University of Wollongong.
60	16.30	Adopting standard methods for assessing biodiversity impacts of invasive alien species, Dr Jens G Froese, CSIRO

CAWS Workshop Series: In the wake of the destructive 2019/20 Australian bushfires, we have a focus on fire and weeds. Join this panel and workshop discussion with key indigenous leaders, government policy makers, researchers, and people working with weeds in the community and on landscapes before and after fire, to explore how we can better prepare for wildfires and weed impacts following wildfire, how we can listen more to what fire of all types, and what landscape, means for indigenous cultural identity, and discuss how we can better manage the landscape, including for weeds and fire. We will be listening to First Nation's traditional approaches to wildfire safety when assessing contemporary risks under modern management regimes. The workshop will start to holistically consider fire as a land management tool rather than only an emergency response scenario.

CLOSING PLENARY - Room: William Magarey West

Chair: Chris Brodie

16:55 | **Conference Closing - Chris Brodie**, Delegate Prize Announcements, Introduction of 23rdAWC

17:25 | Close

THURSDAY 29 SEPTEMBER 2022

08:30 - 17:00 | Post-Conference Tours

Arrival: 08:15 for a sharp 08:30 departure

Depart: From the Adelaide Oval, Southern Plaza Entrance

Tour # 1: Northern Tour: Northern Adelaide Plains and Barossa Valley Wine Region

Tour # 2: Central Tour: Belair National Park and Adelaide Hills Wine Region

Tour # 3: Southern Tour: Southern Adelaide Rivers and McLaren Vale Wine Region

Paper # Poster Presentations		
15	P1	Host-specificity testing for the tradescantia leaf beetle (<i>Neolema ogloblini</i>), Dr Umar Lubanga, Agriculture Victoria
17	P2	Towards the Development of Herbicides Targeting Lysine Biosynthesis, Miss Emily Mackie, La Trobe University
30	P3	Progress towards the eradication of <i>Limnocharis flava</i> from Australia, Kimberley Erbacher, Biosecurity Queensland, Department of Agriculture and Fisheries
33	P4	Age and size of flowering <i>Mikania micrantha</i> plants raised in a controlled environment, Simon Brooks, Biosecurity Queensland, Department of Agriculture and Fisheries, Tropical Weeds Research Centre
42	P5	Enhancement of the Colonisation Process of a Bioherbicide in Chinese Elm (<i>Celtis sinensis</i>) through Co-Treatment, Miss Ciara O'Brien, Miss Brooke Johnstone, The University of Queensland
48	P6	Invasive grasses management program – piloting a different approach to an old problem, Ms Cath Walsh, Centre for Invasive Species Solutions
52	P7	Fund a landowner's weed control and you've weeded for a season, teach a landholder long-term weed control strategies and you've weeded for a lifetime., Mr Shannon Robertson, PIRSA
54	P8	Comparison of adjuvants with soil-binding properties to reduce herbicides runoff losses in sugarcane, Ms Emilie Fillols, Sugar Research Australia
59	P9	riskmapr: a web tool for mapping weed risk to support operational decisions, Dr Jens G Froese, CSIRO
72	P10	Influence of broadacre crop rotational sequence on the weed seedbank in the Riverina, K M Shamsul Haque, University
86	P11	Cover crops in maize (<i>Zea mays</i>) enable reduced herbicide use, Dr Trevor James, AgResearch
92	P12	Genetic mutation in a putative Aux/IAA gene in common sowthistle proposed as the basis for 2,4-D resistance., Dr Mahima Krishnan, Dr Tijana Petrovic, Ms Alicia Merriam, Dr Geetha Velappan, Professor Christopher Preston, The University of Adelaide
98	P13	The ACT Experience with Mobile Device Mapping of Invasive Plants, Mr Steve Taylor, ACT Parks and Conservation Service - EPSDD
107	P14	How effective is Satusteam as a tool for weed control and restoring biodiversity? , Jeremy Winer, Weedtechnics
108	P15	Against the Odds - Policy Challenges for managing buffel grass invasion in non-pastoral arid lands, Adam Woods, Alinytjara Wilurara Landscape Board
117	P16	Estimating tropical weed seed longevity with a laboratory test, Simon Brooks, Biosecurity Queensland, Department of Agriculture and Fisheries, Tropical Weeds Research Centre
135	P17	Bixlozone: A new Isoxazolidinone herbicide for a wide range of major crops., Geoff Robertson, FMC Australasia
141	P18	Survival of tropical weed species seeds after immersion in fresh, brackish, salt water., Mr Stephen Setter, Biosecurity Queensland
148	P19	Effect of cultivar and seed weight on triticale competitiveness with annual ryegrass, <i>Lolium rigidum</i> , Professor Brian Sindel, University of New England
164	P20	Management of Globe Chamomile, Ms Alexandra Douglas, Department of Primary Industries and Regional Development WA
173	P21	Interactive effect of high temperature and reduced soil moisture availability on the morpho-physiological traits and glyphosate susceptibility of windmill grass (<i>Chloris truncata</i> R.Br.), Dr Arslan Masood Peerzada, The University Of Queensland
177	P22	Recent advances in field releases of environmental weed biocontrol agents, Dr Ben Gooden, CSIRO Health & Biosecurity
190	P23	Non-Chemical <i>Cyperus iria</i> weed management through rice densities and weed emergence times in dry-seeded rice eco-system, Dr Tahir Awan, Rice Research Institute Kala Shah Kaku

Paper # Poster Presentations continued..

192	P24	Before the bulldozers go in: reducing the risk of new and emerging weeds in Leigh Creek , Matthew Westover, SA Arid Lands Landscape Board
201	P25	Weeding it out: The Australian online trade of invasive aquatic plants, Miss Lisa Wood, University Of Adelaide
202	P26	Maximising Control Effectiveness Using Prescribed Burning for Control of Sweet Pittosporum (<i>Pittosporum undulatum</i>), Mr Matt Russell, Ms Ruby Wicks, Parks Victoria
206	P27	Best rotations for barley grass (<i>Hordium</i> spp.) management, Dr Catherine Borger, Department Of Primary Industries And Regional Development
207	P28	High Voltage: Australian Electric Weed Control, Miss Miranda Slaven, The Department Of Primary Industries And Regional Development
209	P29	Urban Waterway and Aquatic Weed Management - case studies form over 20yrs, Ms Geraldene Dalby-Ball, Dragonfly Environmental
216	P30	Efficacy of pre-emergent herbicides on ameliorated soil, Mr Bowen Zhang (Catherine Borger), Dpird
218	P31	OpenWeedLocator (OWL): An open-source, community-driven and low-cost fallow weed detection tool., Mr Guy Coleman, University Of Sydney
226	P32	Assessing the fungal pathogen <i>Stagonospora Tauntonense</i> as a biocontrol agent against rat's tail grasses , Miss Eloise Martin, CSIRO
228	P33	Trialling foot cleaning stations in Kosciuszko NP for biosecurity hygiene: How much do bushwalkers use them, what influences their use, and how to they respond to the cleaning stations?, Dr Nicholas Gill, University Of Wollongong
232	P34	<i>Passiflora foetida</i> : prospects for biological control, Dr Nagalingam Kumaran, CSIRO
236	P35	Making a difference to invasive grass management on the ground, Dr Ali Bajwa, New South Wales Department of Primary Industries
238	P36	What is your State of vulnerability to climate change? Biosecurity and weed threats to New South Wales, Dr Stephen Johnson, New South Wales Department of Primary Industries
245	P37	Getting the best out of herbicides and combinations for lentil crop safety and broadleaf weed control on light to medium textured soils, Dr Navneet Aggarwal, South Australian Research and Development Institute
260	P38	HARDI GeoSelect, Mr Heath Thompson, Mr Andrew Snowball, Hardi Australia Pty Ltd
270	P39	Siam weed in the NT - The importance of looking far and wide, Mr Thomas Price, Department of Environment, Parks and Water Security - Northern Territory Government
273	P40	Efficacy of Steam Weed Management on Mother of Millions (<i>Bryophyllum</i> species), Singapore Daisy (<i>Sphagneticola trilobata</i>) and Butterfly Heaven (<i>Dyschoriste depressa</i>)., Kerrie Guppy, Aus Eco Solutions
259	P41	Inheritance of propyzamide resistance in multiple-resistant annual bluegrass (<i>Poa annua</i> L.), Mr Rajesh Barua, The University Of Adelaide