Irrigation Directory

The Directory of Irrigation Australia Members of Organisations and Certified Professionals

2020

Our Centre Of Irrigation Excellence Sponsors

IRRIGATION AUSTRALIA
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About Irrigation Australia

Irrigation Australia Ltd (Irrigation Australia) is Australia's peak national organisation representing the Australian rural and urban irrigation industry.

It was founded in 2007 as a result of the merger of the Irrigation Association of Australia (IAA) and the Australian National Committee on Irrigation and Drainage (ANCID). Its membership includes all sectors of the industry - from water users, consultants, designers and installers through to educational institutions, government agencies, manufacturers and retailers. It also has an international connection as the Australian representative body of the International Commission on Irrigation and Drainage (ICID).

Irrigation Australia is a member-based, not-for-profit organisation with its national office in Brisbane. It also has regional committees around Australia. These committees are active in promoting the interests of members and in organising training and networking events with the aim of building the strength and sustainable future of irrigation in Australia.

Irrigation Australia has partnerships with organisations that share its aims and aspirations in the water sector. Partners include the Australian Hydrographers Association, Irrigation New Zealand, the National Irrigators' Council, Pump Industry Australia, Rainwater Harvesting Australia, the Australian Water Partnership, IceWaRM, IA USA and ICID.

Our vision
To lead the Australian irrigation industry

Our mission
As the national representative body of the Australian irrigation industry, Irrigation Australia will:
• provide value and service for its members
• be the prime source of irrigation-related knowledge for all stakeholders
• provide professional development for the irrigation industry supporting economic sustainability in Australia.

Board members
Irrigation Australia board members are elected for a two-year term. The role of members is to provide strategic advice on the direction of the association and on its professional development and other activities.

To see who the current board members are, go to the Irrigation Australia website www.irrigationaustralia.com.au (under the ABOUT tab).

Staff
Irrigation Australia has staff located in its head office, in Brisbane, and in Perth.

Head office, Brisbane
Unit 11/58 Metroplex Ave
Murarrie Queensland 4170
P: 1300 949 891; 07 3517 4000
E: info@irrigation.org.au
W: www.irrigationaustralia.com.au

Bryan Ward, Chief Executive Officer
Chris Delphin, Business Administration Manager and Company Secretary
Geoff Harvey, National Training, Certification and Marketing Manager
Andres Jaramillo, Training and Certification Officer
Kahla McKinless, Training and Compliance Officer
Marike Froneman, Accountant

Perth office
PO Box 61
Victoria Park WA 6979
P: 08 9368 3136

Tracy Martin, National Membership and Regions Manager
Ellen Slobe, WA Projects Officer (part time)
Rebecca (Bec) New, Administration Support (part time)

International Committee on Irrigation and Drainage
Irrigation Australia represents the global organisation, International Commission on Irrigation and Drainage (ICID), in Australia. Established in 1950, ICID is the leading scientific, technical and not-for-profit non-governmental organisation for irrigation and drainage.

Through its network of professionals spread across more than a hundred countries, ICID has facilitated sharing of experiences and transfer of water management technology for over half a century. It supports capacity development, stimulates research and innovation and strives to promote policies and programs to enhance sustainable development of irrigated agriculture through a comprehensive water management framework.

Every year ICID organises its WatSave awards, which acknowledge outstanding contributions to water conservation or water saving in agriculture across the world. The aim is to recognise the outstanding contribution to water conservation or water saving for the benefit of all water users. Awards are judged based on realised savings and not for promising research results, plans, ideas or intentions to save water.

Australia has featured recently in these awards, with the Goulburn-Broken CMA winning an award award for its Farm Water Program – Water Saving Calculator. Winners of the 2018 WatSave award for technology were John Hornbuckle, Jamie Vleeshouwer and Janelle Montgomery from Australia.

Goulburn Weir and Bleasdale Vineyards have also been recognised by ICID as Heritage Irrigation Structures, a list of mitigation structures around the world which have an archival value.

In 2020 Irrigation Australia will partner with ICID to hold the Irrigation Australia International Conference and Exhibition along with the ICID 24th International Congress and 71st IEC meeting. This is the most significant irrigation event to have been held in Australia, with attendees, exhibitors and presenters from around the world.
The Largest Combined Irrigation Conference and Exhibition in the Southern Hemisphere

Irrigation Australia is proud to join with ICID for their 24th International Congress and we look forward to welcoming delegates from around the world to Australia in September 2020 for this event.

BOOK YOUR EXHIBITION SPACE
Showcase your products to a large domestic and global marketplace. Email info@encanta.com.au

SPONSORSHIP OPPORTUNITIES
Give your brand prominence and exposure at this significant event. Go to www.icid2020.com.au

For exhibition and sponsorship enquiries please contact:

ENCANTA:
P +61 8 9389 1488
E info@encanta.com.au

Irrigation Australia:
P 1300 949 891
E info@irrigation.org.au

EARLYBIRD REGISTRATION Until May 22nd

Expected Participation
1500+ Conference Delegates 2000+ Exhibition Visitors

FOR MORE INFORMATION
Certification and professional development

Irrigation Australia’s certification program and training activities are designed so that industry members can upgrade their skills and demonstrate to clients and the community that their work is performed to standards of best practice.

Certification program
Certified irrigation professionals are members who are certified in Irrigation Australia’s certification program in one or more of the eight disciplines of certification.

Becoming a certified irrigation professional helps to lift the skills, knowledge and standards of the whole industry, which will help the irrigation industry control its own future and become more sustainable. There are personal benefits too. The program recognises the skills of irrigation professionals, which can contribute to better career prospects.

Certification also grants industry members a point of difference in the market. A certified irrigation professional is highly regarded by customers as being able to provide a service that meets or exceeds the average industry standards.

Areas of certification. All major professions in the industry are covered by Irrigation Australia’s certification program, i.e.:
- Certified Irrigation Designer
- Certified Irrigation Agronomist
- Certified Irrigation Contractor
- Certified Irrigation Installer
- Certified Irrigation Manager
- Certified Irrigation Operator
- Certified Irrigation Retailer
- Certified Irrigation Meter Installer and Validator

Professional development
Certificate qualifications. Through its registered training organisation Irrigation Training Australia (ITA), Irrigation Australia provides a range of industry related training courses and workshops that contribute towards nationally accredited qualifications including Certificate III in Irrigation Technology (AHC32419), a trade level qualification that commenced in 2020, and Certificate IV in Irrigation Management (AHC41119).

Irrigation Australia runs its School in Certificate III in Irrigation Technology providing students with a broad range of training topics about the latest industry innovations, techniques and practices. The qualification reflects the skills and knowledge required to become an irrigation installer, operator, retailer or technician for residential, commercial or agricultural industries.

Industry participants who have previously completed a Certificate III in Irrigation (AHC32416) may be eligible to upgrade to the Certificate III in Irrigation Technology. Irrigation Australia offers an upgrade course that covers the extra eight units of competency that make up the 22 units of the Certificate III in Irrigation Technology trade qualification.

Industry members can complete a Certificate IV in Irrigation Management through Irrigation Australia through recognition of prior learning and coursework.

Short courses. Irrigation Australia offers a range of short courses in irrigation topics, including:
- Basics of wiring and electrics for irrigation systems
- Centre pivot and lateral move irrigation
- Concepts of drip irrigation
- Energy efficiency
- Evapotranspiration MasterClass
- Introduction to irrigation in Australia (urban and agriculture)
- Irrigation efficiency
- Irrigation hydraulics
- Irrigation performance evaluation
- Irrigation pumps and systems
- Irrigation system check sports turf
- Rainwater harvesting
- Urban irrigation design.

One-stop training information
If you are looking to improve or update your irrigation skills and knowledge then your association can help you out with our one-stop irrigation training shop, the Centre of Irrigation Excellence (COIE). The COIE is your platform to browse through upcoming industry training provided by approved Irrigation Australia and other registered training organisations. You will find pathways for qualifications, certifications and short course training options to improve your irrigation and business skills.

You can check out training activities provided through Irrigation Australia as well as those by industry RTOs, including:
- Certificates II, III and IV in Irrigation
- Diploma in Irrigation
- Online courses
- Short courses
- Certifications.

To find out more go to the COIE website www.coie.com.au

Irrigation Australia thanks the great support our Centre of Irrigation Excellence (COIE) Foundation Sponsors that helps make these courses cost effective for the participants, and for also providing company presenters at these courses.

Centre of Irrigation Excellence Foundation Sponsors
- Advanced Industrial Products
- Brown Brothers Engineers
- Hunter Industries
- IPLEX
- Isuzu Engines
- KSB
- Nelson Irrigation
- Netafim
- Philmac
- Toro
- Valley Irrigation
- Vinidex
Centre of Irrigation Excellence

Irrigation Australia recognises and appreciates the support of the following leading irrigation suppliers for our Centre of Irrigation Excellence. Without their support this new venture would not have been possible.

An online platform that promotes

- Industry Training And Qualification
- Certification
- Irrigation Career Pathways
- Industry Knowledge

www.coie.com.au

Advanced Industrial Products

Australian owned company and one of the country’s largest national suppliers of industrial PVC hoses, industrial ball valves and fittings.

Brown Brothers Engineering Australia Pty Ltd

Providing a full range of pumps and pumping solutions from small domestic pressure systems to large industrial process pumps.

Isuzu Engines

Isuzu is the leading manufacturer and innovator of outstanding industrial diesel engines producing more than 1 million engines annually.

KSB

The KSB Group is a global company and a leading producer of pumps, valves and related products.

Hunter

A global company providing quality solutions for landscape irrigation for residential & commercial applications.

Iplex Pipelines

Australian owned and operated pipe and fittings manufacturing business with manufacturing and distribution capabilities in all states.

Netafim

The world leader in smart drip and micro-irrigation for agriculture and landscape application providing a solutions for a sustainable future.

Philmac

A global company designing and manufacturing fittings and valves, providing cost-effective solutions for the transfer & application of water.

TORO

A worldwide supplier of irrigation products to the landscape, agricultural, turf care and domestic garden markets.

Valley

A worldwide leader in precision irrigation. The Valley brand of Centre pivots provide solutions for meeting the growing demand for food.

Vinidex Systems & Solutions

The leader in manufacturing and supplying quality PVC, polyethylene (PE), polypropylene (PP), ductile (DICL) and industrial pipe systems.
HydroPlan helps owners of irrigation and water systems get best value from their investments in agriculture, sports turf and urban landscapes. Principal consultants James Sullivan (M: 0412 513 886) and John Gransbury (M: 0418 155 844) provide a wide range of technical services, from irrigation audits and set-out surveys on GPS surveys to the design of turkey nest dams. The large team of specialists are contactable on 08 9373 4949 or ad@hydroplan.com.au.

SMEC Australia and NZ
Level 4, 19 Grafton St, Adelaide, 5000
P: 08 8225 9800
E: adelaide@smec.com
W: www.smec.com/en

STRATHALBYN
Ardal Water Solutions Pty Ltd
2a Albyn Tce, Strathalbyn, 5255
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E: bryce@ardalwater.com.au
W: www.ardalwater.com.au

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HydroPlan helps owners of irrigation and water systems get best value from their investments in agriculture, sports turf and urban landscapes. The NSW branch opened almost 30 years ago and continues to service urban and rural clients.

NORTHERN TERRITORY

NOONAMAH
HD Irrigation & Turf
100 Hughes Rd, Noonamah, 0837
P: 0408 895 311
E: slsh@inet.net.au
W: www.hydroplan.com.au

QUEENSLAND

AHERTON
HydroTech Monitoring Pty Ltd
100 Togo Rd, Aherton, 4085
P: 07 4091 4150
E: info@hydrotechmonitoring.com.au
W: www.hydrotechmonitoring.com.au

BRISBANE
GROWCOM
Level 1, 163 North Quay, Brisbane, 4000
P: 07 6037 1066
E: growcom@growcom.com.au
W: www.growcom.com.au

BURLEIGH HEADS

HydroPlan
15 Bittern Ave, Burleigh Heads, 4220
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E: brett@hydroplan.com.au
W: www.hydroplan.com.au

HYDROPLAN

HOME HILL
Agritech Solutions
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P: 0416 155 844
E: admin@agritechsolutions.com.au
W: www.agritechsolutions.com.au

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P: 0403 314 654
E: gcbc@bigpond.net.au

ST GEORGE
GL Irrigation Pty Ltd
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E: glirrigion@bigpond.com,
W: www.glirrigion.com.au

TOOWOOMBA EAST
Aritis Irrigation Solutions Pty Ltd
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SOUTH AUSTRALIA

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E: admin@glennigirrigation.com.au
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HydroPlan
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SMDC Australia and NZ
Level 4, 19 Grafton St, Adelaide, 5000
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W: www.smec.com/en

TATURRA
Jacobs Group (Australia) Pty Ltd
131 Kennedy St, Toowoomba, 4350
P: 07 4613 1066
E: josh.howes@jacobs.com
W: www.jacobs.com/locations/asia-pacific

WESTERN AUSTRALIA

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HydroPlan provides independent irrigation and water system services, anywhere. Bjorn Baker is the Principal Consultant, and he’s contactable on 0412 434 294 or bjorn@hydroplan.com.au. HydroPlan’s long track record includes iconic urban projects to large stock and domestic pipelines.
When you can’t count on the rain, depend on John Deere irrigation power.

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W: www.cplandscaping.com.au

MELBOURNE  
Greenleaves Australia Pty Ltd  
PO Box 1011, Flemington, 3066  
P: (03) 8399 2255  
E: tim@greenleaves.com.au  
W: www.greenleaves.com.au

Rose Landscape Services  
13 Salvation Dr, Campbellfield, 3070  
P: 0421 005 515  
E: pm@roslanscapeservices.com.au  
W: www.roslanscapeservices.com.au

Royal Botanic Gardens Melbourne  
Private Bag 2000, Birdwood Ave, South Yarra, 3141  
P: 03 9252 2320  
E: phils.berry-smith@rbg.vic.gov.au  
W: www.rbg.vic.gov.au

Super Gardens Pty Ltd  
27 Germaine Cres, Mulgrave, 3170  
P: 03 9561 2333  
E: smalley@supergardens.com.au  
W: www.supergardens.com.au  
Super Gardens is an award winning, commercial landscaping, sports turf and grounds maintenance company. We have been proudly servicing Victories for over 30 years. Our customers include airports, golf courses, private schools, business parks and residential estates. We pride ourselves in working closely with our clients toward achieving innovative, environmentally friendly, sustainable solutions. Our specialist irrigation technicians provide installation, maintenance, repair and programming of all irrigation systems. We also install complete water harvesting projects and environmental rain garden installations.

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E: admin@perthlandscapedesign.com.au  
W: www.perthlandscapedesign.com.au

DENMARK  
Colonial Gardens & Reticulation  
26 Rockford St, Denmark, 6333  
P: 0407 135 250  
E: ben.colonialgardens@gmail.com

GULGONG  
Midwest Valves & Controls  
133 Mayer St, Gulgong, 2852  
P: 02 6374 2808  
E: peter@midwestvalves.com.au  
W: www.midwestvalves.com.au

MOAMA  
Rich River Irrigation Developments Pty Ltd  
PO Box 241, Moama, 2731  
P: 02 5482 2564  
E: admin@rrd.com.au  
W: www.rrid.com.au

MUDGEE  
Transcape Constructions  
PO Box 120, Garbutt East, 4810  
P: 07 5607 0508  
E: admin@greenwoodlandscape.com.au  
W: www.greenwoodlandscape.com.au

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44 Edward St, Osborne Park, 6017  
P: 08 9443 3777  
E: enquiries@landscapeelements.com.au  
W: www.landscapeelements.com.au

Landscape WA Pty Ltd  
31 Canham Way, Greenwood, 6024  
P: 08 9247 2487  
E: ncl@landscapewa.com.au  
W: www.landscapewa.com.au

LD TOTAL  
172 Burwood Rd, Burwood, 6100  
P: 08 6436 1111  
E: admin@ldtotal.com.au  
W: www.ldtotal.com.au

Unit 3, 7 Susanstowers St, Osborne Park, 6017  
P: 08 9495 1000  
E: admin@luke’slandscaping.com.au  
W: www.lukeslandscaping.com.au

Perth Landscape Design  
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E: office@perthlandscapedesign.com.au  
W: www.perthlandscapedesign.com.au

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Cabbage Tree Landscape  
32 Davis Rd, Glynde, 5070  
P: 0402 493 159  
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W: www.aquametricservices.com

ENERGY ACTION (Australia) Pty Ltd  
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E: partners@energyaction.com.au  
W: www.energyaction.com.au

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Grape Vine Landscaping  
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P: 0423 873 696  
E: tim@growmasterlandscaping.com.au  
W: www.growmasterlandscaping.com.au

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Adelaide Innovative Landscaping  
211/315 Traders Way, Currambene, 5023  
P: 08 8217 9884  
E: partners@energyaction.com.au  
W: www.adelaideinnovative.com

Grafix Irrigation Systems  
1360 Boundary St, Mooba, 2615  
P: 0408 046 116  
E: rik@irrigate.com.au  
W: www.irrigate.com.au

HATZ Diesel Australia  
2 Hume Rd, Smithfield, 2164  
P: 02 8708 7999  
E: hatz@hatz.com.au  
W: www.hatz.com.au

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<th>Location</th>
<th>Company Name</th>
<th>Address</th>
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<tbody>
<tr>
<td>COODABOON</td>
<td>AgriWest - Cooma</td>
<td>61 Commission St, Cooma, 2630</td>
<td>02 6455 7699</td>
<td>E: <a href="mailto:ahmed@agriwestrural.com.au">ahmed@agriwestrural.com.au</a></td>
<td>W: <a href="http://www.agriwestrural.com.au">www.agriwestrural.com.au</a></td>
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<td>CRAWRA</td>
<td>Chiverton Estate Pty Ltd T/As Thompsons Irritab</td>
<td>46 William St, Cowra, 2794</td>
<td></td>
<td>E: <a href="mailto:georgthompson@irritab.com.au">georgthompson@irritab.com.au</a></td>
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<td>SOUTHWELL IRRIGATION - CRAWRA</td>
<td></td>
<td>13 Young Rd, Cowra, 2790</td>
<td>02 6341 4200</td>
<td>E: <a href="mailto:cowra@southwells.com.au">cowra@southwells.com.au</a></td>
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<td>DENILIJINU</td>
<td>Riverina Watermatic</td>
<td>450 Barham Rd, Deniliquin, 2710</td>
<td>03 5887 5044</td>
<td>E: <a href="mailto:evannutri@inet.net.au">evannutri@inet.net.au</a></td>
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<tr>
<td>DENMAN</td>
<td>Denman Rural</td>
<td>38 - 40 Ogilvie St, Denman 2328</td>
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<td>W: <a href="http://www.denmanrural.com.au">www.denmanrural.com.au</a></td>
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<tr>
<td>DUBBO</td>
<td>AquaWest Pty Ltd</td>
<td>41 Douglas Mawson Rd, Dubbo, 2830</td>
<td>02 6882 7988</td>
<td>E: <a href="mailto:admin@aquawest.com.au">admin@aquawest.com.au</a></td>
<td>W: <a href="http://www.aquawest.com.au">www.aquawest.com.au</a></td>
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<td>CONDABOON</td>
<td>AgriWest Services</td>
<td>1 Burnett St, Condobolin, 2877</td>
<td>02 6882 5522</td>
<td>E: <a href="mailto:markspumps@bigpond.com">markspumps@bigpond.com</a></td>
<td>W: <a href="http://www.pumpsandirrigationgeurie.com.au">www.pumpsandirrigationgeurie.com.au</a></td>
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<td>CONDABOON</td>
<td>Nutrien Water</td>
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<td>W: <a href="http://www.nutrien.com.au">www.nutrien.com.au</a></td>
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<tr>
<td>GILGANDRA</td>
<td>AgriWest Services</td>
<td>106 Warren St, Gilgandra, 2827</td>
<td>02 6847 6188</td>
<td>E: <a href="mailto:gilgandra@agriwest.com.au">gilgandra@agriwest.com.au</a></td>
<td>W: <a href="http://www.agriwest.com.au">www.agriwest.com.au</a></td>
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<td>GILGANDRA</td>
<td>Nutrien Water Dubbo</td>
<td>69-71 Fitzroy St, Dubbo, 2830</td>
<td>02 6885 5220</td>
<td>E: <a href="mailto:water.dubbo@nutrien.com.au">water.dubbo@nutrien.com.au</a></td>
<td>W: <a href="http://www.nutrien.com.au">www.nutrien.com.au</a></td>
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<td>GLOUCESTER</td>
<td>ProWater</td>
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<td>GLOUCESTER</td>
<td>Gloucester Rural Supplies</td>
<td>18 Tate St, Gloucester 2422</td>
<td>02 6558 5500</td>
<td>E: <a href="mailto:sales@gloucesterruralsupplies.com.au">sales@gloucesterruralsupplies.com.au</a></td>
<td>W: <a href="http://www.prowater.com.au">www.prowater.com.au</a></td>
</tr>
<tr>
<td>GOSFORD</td>
<td>Gosford Irrigation &amp; Water Solutions Pty Ltd</td>
<td>Unit 2, 254 Manns Rd, Gosford, 2250</td>
<td>02 4322 3333</td>
<td>E: <a href="mailto:sales@irrigation.com.au">sales@irrigation.com.au</a></td>
<td>W: <a href="http://www.gosfordirrigation.com.au">www.gosfordirrigation.com.au</a></td>
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<tr>
<td>GUNNING</td>
<td>Gunning Ag &amp; Water Solutions</td>
<td>63 - 67 High St, Gunning 2581</td>
<td>02 4845 1113</td>
<td>E: <a href="mailto:sales@gunningagwatersolutions.com.au">sales@gunningagwatersolutions.com.au</a></td>
<td>W: <a href="http://www.prowater.com.au">www.prowater.com.au</a></td>
</tr>
<tr>
<td>HAY</td>
<td>AgriWest Services</td>
<td>Cnr Lachlan St and Showground Rd, Hay 2711</td>
<td></td>
<td></td>
<td>W: <a href="http://www.prowater.com.au">www.prowater.com.au</a></td>
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<tr>
<td>HAY</td>
<td>Gunning Ag &amp; Water Solutions</td>
<td>63 - 67 High St, Gunning 2581</td>
<td>02 4845 1113</td>
<td>E: <a href="mailto:sales@gunningagwatersolutions.com.au">sales@gunningagwatersolutions.com.au</a></td>
<td>W: <a href="http://www.prowater.com.au">www.prowater.com.au</a></td>
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<tr>
<td>HAY</td>
<td>Crighton Rural Engineering Pty Ltd</td>
<td>Cnr Nairne and Moama Sts, Hay, 2711</td>
<td></td>
<td></td>
<td>W: <a href="http://www.crighton.com.au">www.crighton.com.au</a></td>
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<tr>
<td>HENTY</td>
<td>AgriWest Services</td>
<td>11 Bond St, Holbrook, 2644</td>
<td>02 6606 2919</td>
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<td>W: <a href="http://www.prowater.com.au">www.prowater.com.au</a></td>
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<td>HOLBROOK</td>
<td>AgriWest Services</td>
<td>11 Bond St, Holbrook, 2644</td>
<td>02 6606 2919</td>
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<td>W: <a href="http://www.prowater.com.au">www.prowater.com.au</a></td>
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<td>JERILDERIE</td>
<td>AgriWest Services</td>
<td>19 Southey St, Jerilderie, 2716</td>
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<td>W: <a href="http://www.prowater.com.au">www.prowater.com.au</a></td>
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<td>JUNEE</td>
<td>AgriWest Services</td>
<td>28-34 Lisgar St, Junee, 2663</td>
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<td>W: <a href="http://www.prowater.com.au">www.prowater.com.au</a></td>
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<td>JUNEE</td>
<td>Crighton Rural Engineering Pty Ltd</td>
<td>Cnr Nairne and Moama Sts, Hay, 2711</td>
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<td>W: <a href="http://www.crighton.com.au">www.crighton.com.au</a></td>
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<td>LAKE CARRÉLLIGGO</td>
<td>AgriWest Services</td>
<td>9 Foster St, Lake Cargelligo, 2672</td>
<td>02 6898 1205</td>
<td>E: <a href="mailto:lakecargelligo@agriwest.com.au">lakecargelligo@agriwest.com.au</a></td>
<td>W: <a href="http://www.agriwest.com.au">www.agriwest.com.au</a></td>
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<td>IRRIGEAR</td>
<td>250 Morayfield Rd, Morayfield, 4506</td>
<td><a href="http://www.reece.com.au">www.reece.com.au</a></td>
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<td>Reece Irrigation &amp; Pools - Sunshine Coast</td>
<td>6 Glen Kyle Dr, Manoora, 4858</td>
<td><a href="http://www.thinkwater.com.au">www.thinkwater.com.au</a></td>
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<td>Pumping Irrigation &amp; Machinery Services</td>
<td>2 Reynold St, Mareeba, 4800</td>
<td><a href="http://www.pumpingirrigation.com.au">www.pumpingirrigation.com.au</a></td>
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<td>MAREEBAA Water</td>
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<td>MAROONCHYDOR</td>
<td>153 Bynes St, Morayfield, 4800</td>
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<td>MCDESME</td>
<td>35 Michel St, Lowood, 4311</td>
<td><a href="http://www.greenswatergroup.com.au">www.greenswatergroup.com.au</a></td>
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<td>MOROYFIELD</td>
<td>37 James St, Malanda, 4805</td>
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<td>MANGO HILL</td>
<td>12 Daniels St, Emerald, 4556</td>
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<td>MANSFIELD</td>
<td>11 Scam St, Mansfield, 4122</td>
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<td>MALANDA</td>
<td>12 Daniels St, Emerald, 4556</td>
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<td>MALANDA Rural Supplies</td>
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<td>ROCKHAMPTON</td>
<td>Nutrien Water</td>
<td>61 Ternagon Rd, Mount Archer, 4514</td>
<td>0428 421 449</td>
<td><a href="mailto:ralph@massfluid.com">ralph@massfluid.com</a></td>
<td><a href="http://www.massfluid.com">www.massfluid.com</a></td>
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<td>Mass Fluid Technologies Pty Ltd</td>
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<td>Nutrien Water</td>
<td>Nutrien Water Rockhampton 56 Boliver St, Rockhampton, 4700</td>
<td>07 4922 3640</td>
<td><a href="mailto:water.rockhampton@nutrien.com">water.rockhampton@nutrien.com</a></td>
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<td>MUNDUBBERA</td>
<td>Ryan Pumping Products</td>
<td>239 East St, Rockhampton, 4700</td>
<td>07 4922 0640</td>
<td><a href="mailto:armin@ryanpumping.com">armin@ryanpumping.com</a></td>
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<td>MURGON</td>
<td>Think Water - Rockhampton</td>
<td>236 Lion Creek Rd, Rockhampton, 4700</td>
<td>07 4922 5720</td>
<td><a href="mailto:rody@thinkwater.com">rody@thinkwater.com</a></td>
<td><a href="http://www.thinkwater.com.au">www.thinkwater.com.au</a></td>
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<td>MEETINGPLACE</td>
<td>Wilshire &amp; Co. Pty Ltd</td>
<td>96a Falconst St, Stanthorpe, 4380</td>
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<td>NAMBOUR</td>
<td>BGA AgiServices</td>
<td>12 Macalister St, Murgon, 4605</td>
<td>07 4168 2911</td>
<td><a href="mailto:dianaelitekennedy@bgagi.com">dianaelitekennedy@bgagi.com</a></td>
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<td>NERANG</td>
<td>Nutrien Water</td>
<td>Nutrien Water Toowoomba 393 Taylor St, Toowoomba, 4350</td>
<td>07 4681 2095</td>
<td><a href="mailto:nridge@wilshireandco.com">nridge@wilshireandco.com</a></td>
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<td>SOUTH AUSTRALIA</td>
<td>Warrego Water Services Pty Ltd</td>
<td>321 Taylor St, Toowoomba, 4350</td>
<td>07 4631 5153</td>
<td><a href="mailto:geoff@warrego.com">geoff@warrego.com</a></td>
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<td>TOWNSVILLE</td>
<td>Advanced Irrigation</td>
<td>238 Woolcock St, Carinas, 4812</td>
<td>07 4779 2677</td>
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<td><a href="http://www.advanced-irrigation.com">www.advanced-irrigation.com</a></td>
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GAWLER

Newtons Building & Landscape
28-30 Pagans Ave, Newton, 5074
P: 08 8415 7777
E: alan@agri-tech.com.au
W: www.newtonbuilding.com.au

KEITH

Irrigation Industries Pty Ltd
Dukes Hwy, Keith, 5267
P: 08 8755 1968
E: admin@vermibes.com.au
W: www.igriirrig.com.au

LAMEROI

Nutrien Water Lameroo
1 Enterprise Rd, Lameroo, 5302
P: 08 8576 3666
E: water.lameroo@nutrien.com.au
W: www.nutrien.com.au

MCLAREN VALE

McLaren Vale Irrigation
237 Main Rd, McLaren Vale, 5160
P: 08 8276 9243
E: admin@mcovale.com.au
W: www.mclarenvalewater.com.au

MEADOWS

Aqua Techniques
55 Manon Rd, Meadows, 5201
P: 08 8334 3000
E: info@aquateerpumps.com.au
W: www.aquateerpumps.com.au

MOUNT BARKER

Mt Barker Irrigation Pump Depot
Unit 2, 9 Light Cres, Mount Barker, 5251
P: 08 8391 0144
E: admin@mbipd.com.au
W: www.mberapa.com.au

MOUNT GAMBER

Irrigation Guys
2 Ralston Rd, Mount Gambier, 5290
P: 0417 309 090
E: irrigationguys@bigpond.com

Water Dynamics - Mt Gambier
233 Jubilee Highway West, Mt Gambier, 5290
P: 08 8724-4000
E: mtgambier@waterdynamics.com.au
W: www.waterdynamics.com.au

Watersolve Irrigation
20631 Hindoch Hwy, Mt Gambier, 5290
P: 08 8725 9602
E: info@watersolve.com.au
W: www.watersolve.com.au

MURRAY BRIDGE

Ackmac Irrigation & Trenching
PB Box 1678, Murray Bridge, 5253
P: 0429 312 207
E: ackmac@bigpond.com
W: www.ackmac-irrigation-trenching.businesssite

Daish Irrigation
151 Adelaide Rd, Murray Bridge, 5253
P: 08 8532 2711
E: admin@daish.com.au
W: www.daishirrigation.com.au

NARACOORTE

Lawrence’s Irrigation
10 Jones St, Naracoorte, 5271
P: 0419 120 983
E: nick@lawrencesirrigation.com
W: www.lawrencesirrigation.com.au

Naracoorte Pumps and Pivots
255 Smith St, Naracoorte, 5271
P: 0407 396 313
E: mikehudd@bigpond.com.au
W: www.naracoorterguns.com

NURIOOTPA

Goertz Irrigation Pty Ltd
91 Narup Rd, Nuriootpa, 5355
P: 08 8562 1333
E: murray@goertz.com.au
W: www.goertzirrigation.com.au

Infrastructure Maintenance Service
PB Box 135, Nuriootpa, 5355
P: 0438 845 738
E: stevedrew@immsa.net.au

Nutrien Water Barossa
173 Murray St, Nuriootpa, 5355
P: 08 8562 4546
E: water.barossa@nutrien.com.au
W: www.nutrien.com.au

ONE TREE

Jim’s Mowing - Pooraka
12 Jordan Dr, One Tree, 5114
P: 0418 894 583
E: silvermist52@bigpond.com

PORT LINCOLN

Lincoln Rural Supplies
74-76 Liverpool St, Port Lincoln, 5606
P: 08 8624 2711
E: marc@lincolnruralsupplies.com.au
W: www.lincolnruralsupplies.com.au

RENMARK

Bedlaw Industries Pty Ltd
223 Heflawn St, Renmark, 5341
P: 0428 846 048
E: bedlaw.tem@bigpond.com

Irrigear Renmark
118 Eighteenth St, Renmark, 5341
P: 08 8566 6777
E: water.renmark@nutrien.com.au
W: www.nutrien.com.au

VICTOR HARBOR

Irrigation S O S
PB Box 1019, Victor Harbor, 5211
P: 08 8552 5261
E: peter@irrigationsos.com
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Rural Irrigation & Electrical Solutions
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W: www.nutrien.com.au

WATER SOLUTIONS TASMANIA
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E: info@watersolutionstas.com.au
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HOBART

Nutrien Water Moonah
41 Derwent Park Rd, Moonah, 7009
P: 03 6272 2400
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LA TROBE

Nutrien Water La Trobe
3 Speedway Dr, La Trobe, 7307
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LAUNCESTON

Darling Irrigation (an AgriVET Services Business)
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For over 10 years Smart Water has been consulting, designing, specifying, supplying, installing and maintaining landscape irrigation systems all over Melbourne. Our team brings the Smart Water Strategy to every project we are involved in.

The less – potable water is a finite resource, so irrigation system efficiency is paramount. Seek alternate water sources – rainwater and stormwater should be integrated into the system. Recycle – reuse water wherever possible to turn waste into a resource.

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2020 Irrigation Directory

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Wright Refrigeration & Engineering
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Electec Pty Ltd
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Water use in Australia

In 2017-18 (the latest period for which figures are available), the estimated total volume of water abstractions across Australia was 16,870 GL, 7 per cent higher than in 2016-17. The total volume of water abstractions for consumptive use is defined as all licensed water abstractions from rivers, storages, high-yielding aquifers and desalination plants that are not used for environmental or cultural purposes.

The following statistics were sourced from the Bureau of Meteorology (BoM) and the Australian Bureau of Statistics (ABS).

**Agricultural water use.** The total water abstracted for agricultural use in Australia in 2017-18 is estimated at 12,150 GL, of which 9,500 GL was sourced from surface water and 1,650 GL from groundwater. Agricultural use includes irrigation as well as other uses such as stock watering.

The annual total abstracted increased by 9 per cent from 2016-17. Surface water abstractions increased by 3 per cent and groundwater by 37 per cent.

On a state basis, New South Wales used the most water for agriculture - 4,590 GL - about 38 per cent of the total water abstracted for agricultural purposes in Australia. Victoria and Queensland were the next highest, accounting for 26 and 17 per cent of the total, respectively. The Northern Territory used the least amount (0.4 per cent), followed by Tasmania (4 per cent), Western Australia (7 per cent) and South Australia (8 per cent).

**Urban water use.** The total volume of water extracted by utilities in 2017-18 was 3,200 GL, slightly more than in 2016-17.

Water utilities supplied an average of 211 kL per property in 2017-18. The total volume of water abstractions for consumptive use is defined as all licensed water abstractions from rivers, storages, high-yielding aquifers and desalination plants that are not used for environmental or cultural purposes.

Water in Australia 2017-18, Bureau of Meteorology.

**Water use on Australian farms**

In 2017-18 Australian farming businesses used 10.5 million ML of water of which 9.5 million ML was used for irrigation. The area, volume of irrigation water used and number of farms being irrigated all increased from 2016-17.

Note. Bureau of Meteorology reports total water use on farms for 2017-18 as 12,150 GL while the Australian Bureau of Statistics figure is 10,500 GL. This reflects different collection methods.

Of the volume of water used for irrigation, 7.2 million ML were applied to crops (69 per cent of all water applied), comprising the following:

- **cotton:** 2.8 million ML (up 7%) was applied to 359,000 ha (up 10%)
- **sugar cane:** 1 million ML (up 4%) was applied to 212,000 ha (down 0.1%)
- **rice:** 733,000 ML (down 22%) was applied to 61,000 ha (down 26%)
- **fruit, nut, plantation and berry fruit:** 939,000 ML (up 12%) was applied to 156,000 ha (up 10%)
- **grapevines:** 474,000 ML (up 9%) was applied to 124,000 ha (up 1%)
- **vegetables:** 399,000 ML (up 3%) was applied to 99,000 ha (up 1%).

Two and a half million ML were applied to pastures (24% of all water applied), comprising the following:

- pastures and cereals fed off: 1.8 million ML (up 18%) was applied to 604,000 ha (up 1%)
- pastures and cereals cut for hay: 478,000 ML (up 4%) was applied to 134,000 ha (down 13%)
- pastures cut for silage: 394,000 ML (up 8%) was applied to 71,000 ha (up 5%).

<table>
<thead>
<tr>
<th>Pasture, cereal and other crops used for grazing</th>
<th>Agricultural businesses (No.)</th>
<th>Agricultural businesses irrigating (No.)</th>
<th>Area under pasture or crop (ha '000)</th>
<th>Area watered (ha '000)</th>
<th>Volume applied (ML '000)</th>
<th>Application rate (ML/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pasture, cereal and other crops cut for hay</td>
<td>20 431</td>
<td>2 839</td>
<td>1 302</td>
<td>134</td>
<td>478</td>
<td>3.6</td>
</tr>
<tr>
<td>Pasture, cereal and other crops cut for silage</td>
<td>4 972</td>
<td>1 101</td>
<td>333</td>
<td>71</td>
<td>194</td>
<td>2.7</td>
</tr>
<tr>
<td>Rice</td>
<td>571</td>
<td>571</td>
<td>61</td>
<td>61</td>
<td>733</td>
<td>12.0</td>
</tr>
<tr>
<td>Other cereals for grain or seed</td>
<td>25 468</td>
<td>1 706</td>
<td>16 532</td>
<td>342</td>
<td>630</td>
<td>1.8</td>
</tr>
<tr>
<td>Cotton</td>
<td>1 076</td>
<td>914</td>
<td>485</td>
<td>359</td>
<td>2 753</td>
<td>7.7</td>
</tr>
<tr>
<td>Sugar cane</td>
<td>3 740</td>
<td>1 780</td>
<td>443</td>
<td>212</td>
<td>1 009</td>
<td>4.8</td>
</tr>
<tr>
<td>Other broadacre crops</td>
<td>16 063</td>
<td>827</td>
<td>6 178</td>
<td>98</td>
<td>184</td>
<td>1.9</td>
</tr>
<tr>
<td>Fruit trees, nut trees, plantation or berry fruits</td>
<td>5 254</td>
<td>4 086</td>
<td>179</td>
<td>156</td>
<td>939</td>
<td>6.0</td>
</tr>
<tr>
<td>Vegetables for human consumption or seed</td>
<td>3 810</td>
<td>3 122</td>
<td>120</td>
<td>99</td>
<td>399</td>
<td>4.0</td>
</tr>
<tr>
<td>Nurseries, cut flowers and cultivated turf</td>
<td>1 888</td>
<td>1 596</td>
<td>17</td>
<td>14</td>
<td>59</td>
<td>4.1</td>
</tr>
<tr>
<td>Grapevines</td>
<td>3 740</td>
<td>3 386</td>
<td>135</td>
<td>124</td>
<td>474</td>
<td>3.8</td>
</tr>
<tr>
<td>TOTAL</td>
<td>85 483</td>
<td>22 470</td>
<td>353 374</td>
<td>2 274</td>
<td>9 665</td>
<td>4.2 (Av.)</td>
</tr>
</tbody>
</table>

Source. ABS Water Use on Australian Farms, 2017-18
Nationally, the number of agricultural businesses irrigating applying water in 2017-18 rose from 22,100 to 22,470. The total volume of area watered by these businesses was almost the same as the year before at 2.2 million hectares.

Growing pasture and crops for grazing, hay and silage remains the biggest consumer of water and comprises the biggest area of irrigation of 809,000 ha, slightly less than the year before. Victoria irrigates the largest area of pasture, cereal and other crops for grazing in Australia – 326,429 ha compared to New South Wales with 141,982 ha, in part because of the size of the dairy industry.

The area of other crops watered changed very little other than broadacre crops other than cotton and rice. The area of these crops fell from 123,000 ha in 2016-17 to 98,000 ha in 2017-18, a 20 per cent drop.

Table 2 details the number of farms in Australia (states, territories and national, irrigating and non-irrigating) as well as sources of water used for agriculture in 2017-18. It shows irrigation schemes supply the greatest volume of water for irrigation through channels and pipelines, while water pumped directly from rivers and streams is the second largest source followed by groundwater. The data does not provide detail on how farm dams are supplied with water. It is possible that farm dam water may be pumped from rivers during times of high flow, extracted from diverted overland flows or pumped from irrigation schemes.

Table 2. Water used on Australian farms and sources of agricultural water 2017-18.

<table>
<thead>
<tr>
<th>Source of Water</th>
<th>Aust.</th>
<th>NSW</th>
<th>Vic.</th>
<th>Qld</th>
<th>SA</th>
<th>WA</th>
<th>Tas.</th>
<th>NT</th>
<th>MDBa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural businesses ('000)</td>
<td>85.5</td>
<td>25.3</td>
<td>21.2</td>
<td>18.7</td>
<td>9.7</td>
<td>7.9</td>
<td>2.2</td>
<td>0.3</td>
<td>35.2</td>
</tr>
<tr>
<td>Agricultural businesses irrigating ('000)</td>
<td>22.5</td>
<td>5.2</td>
<td>6.1</td>
<td>5.4</td>
<td>3.0</td>
<td>1.3</td>
<td>1.2</td>
<td>0.1</td>
<td>9.5</td>
</tr>
<tr>
<td>Total water use ('000 ML) (b)</td>
<td>10,491</td>
<td>4,126</td>
<td>2,320</td>
<td>2,683</td>
<td>660</td>
<td>310</td>
<td>299</td>
<td>92</td>
<td>7065</td>
</tr>
<tr>
<td>Total application rate (ML/ha)</td>
<td>4.2</td>
<td>5.0</td>
<td>3.4</td>
<td>4.6</td>
<td>4.1</td>
<td>3.0</td>
<td>2.8</td>
<td>2.2</td>
<td>4.7</td>
</tr>
<tr>
<td>Water applied for irrigation ('000 ML) (c)</td>
<td>9,734</td>
<td>3,950</td>
<td>2,155</td>
<td>2,455</td>
<td>606</td>
<td>234</td>
<td>278</td>
<td>57</td>
<td>6,798</td>
</tr>
<tr>
<td>Irrigation channels or pipelines ('000 ML)</td>
<td>3,949.5</td>
<td>1,662</td>
<td>1,353</td>
<td>649</td>
<td>138</td>
<td>90</td>
<td>58</td>
<td>0</td>
<td>3,097</td>
</tr>
<tr>
<td>On-farm dams or tanks ('000 ML)</td>
<td>1,165.7</td>
<td>316</td>
<td>101</td>
<td>528</td>
<td>16</td>
<td>69</td>
<td>95</td>
<td>40</td>
<td>602</td>
</tr>
<tr>
<td>Rivers, creeks or lakes ('000 ML)</td>
<td>3,005.3</td>
<td>1,423</td>
<td>517</td>
<td>724</td>
<td>208</td>
<td>11</td>
<td>119</td>
<td>3</td>
<td>2,315</td>
</tr>
<tr>
<td>Groundwater ('000 ML)</td>
<td>2,156.4</td>
<td>690</td>
<td>278</td>
<td>722</td>
<td>270</td>
<td>125</td>
<td>23</td>
<td>49</td>
<td>976</td>
</tr>
<tr>
<td>Recycled/re-used from off-farm ('000 ML)</td>
<td>1,579.9</td>
<td>20</td>
<td>55</td>
<td>54</td>
<td>16</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>59</td>
</tr>
<tr>
<td>Town or country reticulated mains supply ('000 ML)</td>
<td>54</td>
<td>14</td>
<td>14</td>
<td>4</td>
<td>11</td>
<td>9</td>
<td>0.6</td>
<td>0</td>
<td>14</td>
</tr>
<tr>
<td>Other water sources ('000 ML)</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.9</td>
</tr>
</tbody>
</table>

(a) Murray Darling Basin (MDB)
(b) Includes water applied for irrigation and other agricultural purposes
(c) Includes water applied to pastures and crops
(d) Includes livestock drinking water, dairy or piggery cleaning etc. Source: ABS

Note. ACT had six irrigation businesses using irrigation water mainly from creeks, rivers and on-farm dams.
Water trade
In Australia, water entitlements and allocations can be bought and sold through water markets, allowing water to move between various urban, agricultural and environmental uses. A “trade” occurs when the ownership of an entitlement or allocation is transferred from one legal entity to another with or without a change of location.

While water is traded at various locations and water systems across Australia, the Murray–Darling Basin is where most occurs, usually between agricultural users. The connected systems in the southern Murray–Darling Basin, which comprises 40 to 50 per cent of all Australian irrigated agriculture and accounts between 40 and 50 per cent of water used on Australian farms, account for 80 to 90 per cent of trading activity in Australia.

Since 2007, the number and volume of trades has grown substantially. In 2017–18, the total estimated turnover of the water market in Australia (entitlement and allocation trade) doubled from the previous year to around $2.4 billion, with entitlement trade comprising 73 per cent of the total for 2017–18.

Gross value of irrigated agricultural production 2017–18
Table 4 details the gross value of irrigated production (GVIAP) for Australia in 2017–18. In 2017–18 total GVIAP increased by 14 per cent to $17.7 billion.

The four commodities with the highest GVIAP were:
• fruit and nuts (excluding grapes) at $4.2 billion
• vegetables at $3.4 billion
• cotton at $2.3 billion
• dairy products at $2.2 billion.

These four commodity groups combined accounted for 69 per cent of total GVIAP for 2017–18.

The main irrigating states (by value) are Victoria ($4.2 billion), Queensland ($4.0 billion) and New South Wales ($3.7 billion). These areas contribute largely to the Murray Darling Basin (MDB) region ($7.2 billion).

Table 4. Gross value of irrigated production 2017–18. (Value ($m))

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Value ($m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rice for grain</td>
<td>245.7</td>
</tr>
<tr>
<td>Cereals for grain and seed (a)</td>
<td>379.2</td>
</tr>
<tr>
<td>Cotton (b)</td>
<td>2 309.4</td>
</tr>
<tr>
<td>Sugar cane - cut for crushing</td>
<td>683.6</td>
</tr>
<tr>
<td>Nurseries, cut flowers and cultivated turf</td>
<td>1 366.0</td>
</tr>
<tr>
<td>Other broadacre crops</td>
<td>122.0</td>
</tr>
<tr>
<td>Hay</td>
<td>169.0</td>
</tr>
<tr>
<td>Vegetables (c)</td>
<td>3 379.0</td>
</tr>
<tr>
<td>Fruit and nuts (excluding grapes)</td>
<td>4 226.4</td>
</tr>
<tr>
<td>Grapes</td>
<td>1 279.8</td>
</tr>
<tr>
<td>Dairy production (d)</td>
<td>2 231.9</td>
</tr>
<tr>
<td>Production from meat cattle</td>
<td>749.7</td>
</tr>
<tr>
<td>Production from sheep and other livestock (e)</td>
<td>554.1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17 695.6</strong></td>
</tr>
</tbody>
</table>

(a) Excludes rice
(b) Cotton lint (irrigated)
(c) Vegetables for human consumption only
(d) Value is calculated based on milk production from dairy cows in milk and dry
(e) Includes production of wool and eggs, and slaughtering and other disposals of sheep, lambs, pigs, poultry and other livestock n.e.c.

Source. Australian Bureau of Statistics

---

Table 4. Volume and number of entitlement trades nationally by source, 2007–08 to 2017–18.

<table>
<thead>
<tr>
<th>Year</th>
<th>Surface water</th>
<th>Groundwater</th>
<th>Total number of trades</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007–08</td>
<td>2000</td>
<td>1500</td>
<td>1000</td>
</tr>
<tr>
<td>2008–09</td>
<td>1500</td>
<td>1000</td>
<td>2000</td>
</tr>
<tr>
<td>2009–10</td>
<td>1000</td>
<td>500</td>
<td>1500</td>
</tr>
<tr>
<td>2010–11</td>
<td>500</td>
<td>250</td>
<td>750</td>
</tr>
<tr>
<td>2011–12</td>
<td>250</td>
<td>125</td>
<td>375</td>
</tr>
<tr>
<td>2012–13</td>
<td>125</td>
<td>62.5</td>
<td>187.5</td>
</tr>
<tr>
<td>2013–14</td>
<td>62.5</td>
<td>31.25</td>
<td>93.75</td>
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<tr>
<td>2014–15</td>
<td>31.25</td>
<td>15.625</td>
<td>46.875</td>
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<tr>
<td>2015–16</td>
<td>15.625</td>
<td>7.8125</td>
<td>23.4375</td>
</tr>
<tr>
<td>2016–17</td>
<td>7.8125</td>
<td>3.90625</td>
<td>11.71875</td>
</tr>
<tr>
<td>2017–18</td>
<td>3.90625</td>
<td>1.953125</td>
<td>5.859375</td>
</tr>
</tbody>
</table>


---

Table 5. Volume and number of water allocation trades nationally by source, 2008–09 to 2017–18.

<table>
<thead>
<tr>
<th>Year</th>
<th>Surface water</th>
<th>Groundwater</th>
<th>Total number of trades</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008–09</td>
<td>2000</td>
<td>1500</td>
<td>1000</td>
</tr>
<tr>
<td>2009–10</td>
<td>1500</td>
<td>1000</td>
<td>2000</td>
</tr>
<tr>
<td>2010–11</td>
<td>1000</td>
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<tr>
<td>2011–12</td>
<td>500</td>
<td>250</td>
<td>750</td>
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<td>2012–13</td>
<td>250</td>
<td>125</td>
<td>375</td>
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<td>2013–14</td>
<td>125</td>
<td>62.5</td>
<td>187.5</td>
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<td>2014–15</td>
<td>62.5</td>
<td>31.25</td>
<td>93.75</td>
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<tr>
<td>2015–16</td>
<td>31.25</td>
<td>15.625</td>
<td>46.875</td>
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<tr>
<td>2016–17</td>
<td>15.625</td>
<td>7.8125</td>
<td>23.4375</td>
</tr>
<tr>
<td>2017–18</td>
<td>7.8125</td>
<td>3.90625</td>
<td>11.71875</td>
</tr>
</tbody>
</table>

Glossary of irrigation terms

While not exhaustive, this glossary provides definitions of terms commonly used in irrigation.

**Application depth**: The rainfall equivalent depth of water applied to the soil surface during a single irrigation event. It is the depth of water that would be caught in a rain gauge, not the depth of soil that is wetted.

**Application efficiency**: The percentage of applied water that is retained in the root zone, or in the target area, after an irrigation event.

**Application intensity**: The rate (mm/hour) at which irrigation is applied. It compares “gentle showers” with “heavy rain”. (See further specific definitions below).
- Instantaneous Application Intensity. The rate (mm/hr) at which irrigation is applied by an individual stream, from an individual outlet or nozzle, to a very small area. For example, for a rotating boom it is the flow from a single outlet divided by the area being wetted at any instant by that outlet.
- Average Application Intensity. The rate of application (mm/hr), averaged over the individual applicator’s wetted footprint. For example, for a rotating boom it is the applicator’s flow rate divided by the area wetted by one full rotation of the boom.

**Application uniformity**: The spatial variability of application. This can be defined in a variety of ways. Common examples are:
- Distribution Uniformity (DU) - is a measure of how uniformly water is applied to the area being watered, expressed as a percentage.
- Coefficient of Uniformity (CU) – Uniformity of Coefficient is a numeric judgment of the overall performance of an irrigation system’s ability to evenly apply water.
- Coefficient of Variation (Cv) - It shows the extent of variability of emitter discharge in relation to the mean and is expressed as a percent.

**Check or non-return valve**: A backflow prevention device designed to prevent water from flowing in reverse through the system. Commonly used to prevent added nutrients, chemicals or effluent from mixing with clean water sources.

**Design area**: The specific land area (e.g. in hectares) which the Designer and the Irrigator mutually understand is to be irrigated by the irrigation system.

**Distribution efficiency**: A measure of how much of the water supplied to the property reaches the application system. It is a function of losses in the conveyance or distribution system from the point of water abstraction or entry to the property, to the application system.

**Effective rooting depth**: The depth of soil profile that has enough rooting density for extraction of available water. Roots may be found at depths greater than this value but do not contribute significantly to water extraction.

**Evapotranspiration (ET)**: The rate of water loss from the combined surfaces of vegetation and soil. It includes evaporation of water from the soil and plant surface and transpiration by plants.

**Field capacity (FC)**: The soil moisture content after gravitational drainage slows from a saturated condition to a rate that is insignificant (i.e. drainage rate less than 1 mm/day).

**Hydraulic efficiency**: A measure of the system hydraulic performance; it gives an indication of how much pressure is lost between the delivery (mainline entry) and discharge points (machine entry, hydrant, or take-off in drip-micro systems), excluding variations in elevation.

**Infiltration rate**: The movement of water into the soil profile. Measured as the rate (mm/hour, mm/day) at which a soil absorbs water. It varies with soil type, soil surface condition and moisture content.

**Irrigation cycle**: The typical period between one irrigation event and the next. It is usually calculated for the most demanding period so that the irrigation system can meet water demand most of the time.

**Irrigation system**: This comprises all the equipment required to transfer water from the water source to the crops in the design area.

**Refill point**: The proportion of the soil available water that is allowed to be removed before irrigation is applied. The level is a management decision dependent on crop type, stage of crop development, seasonal water demand and other management factors and constraints.

**Permanent wilting point (WP)**: The soil moisture content where plant is unable to extract anymore water and plant growth stops.

**Operating costs**: The costs directly attributable to the operation of the irrigation system.
- Labour to operate irrigation system
- Energy costs of running the system
- Maintenance costs
- Operating cost should be expressed as cost per unit area ($/ha) and cost per unit volume of water ($/ML).

**Readily available water (RAW)**: The soil moisture the plant can extract easily and without stress.

**Soil moisture deficit**: The proportion of readily available water in the soil used by the crop.

**Surface runoff**: Water that does not immediately infiltrate into the soil and instead leaves the target zone by running off across the soil surface under gravity.

**System capacity (SC)**: The flow of water per unit of irrigated area normally expressed as litres per second per hectare (L/s/ha) or mm per day (mm/d) calculated based on the system operating 24 hours per day.

**Total available water (TAW)**: All the water that is extractable by plants (plant type may be specified); taken as the difference between soil water at field capacity and at permanent wilting point.

**Water holding capacity (WHC)**: The volumetric ratio of all water contained in a layer or depth of soil at field capacity, including that held too tightly for plants to access.
Standard formulae

**Crop evapotranspiration (ETc)**

\[ \text{ET}_c = \text{ET}_o \times K_c \]

Where:

- \( \text{ET}_c \) = crop evapotranspiration (mm/d)
- \( \text{ET}_o \) = reference crop evapotranspiration (mm/d)
- \( K_c \) = the crop water use co-efficient

**Irrigation System Capacity**

\[ \text{SC} = \frac{A \times \text{ET}_c}{86400} \]

Where:

- \( \text{SC} \) = system capacity in L/s (litres per second)
- \( A \) = area (in m²)
- \( \text{ET}_c \) = crop evapotranspiration (mm/day)
- 86400 = constant to convert litres per day to L/s

**Designed System Capacity**

\[ \text{SC}_{\text{des}} = \frac{\text{SC}}{\text{Ea}} \]

Where:

- \( \text{SC}_{\text{des}} \) = designed system capacity in L/s (litres per second)
- \( \text{SC} \) = system capacity in L/s (litres per second)
- \( \text{Ea} \) = application efficiency (expressed as a decimal – i.e. 90% = 0.9)

**Managed System Capacity**

\[ \text{SC}_{\text{man}} = \frac{\text{SC}_{\text{des}}}{\text{PUR}} \]

Where:

- \( \text{SC}_{\text{man}} \) = managed system capacity in L/s (litres per second)
- \( \text{SC}_{\text{des}} \) = designed system capacity in L/s (litres per second)
- \( \text{PUR} \) = pump utilisation ratio (expressed as a decimal – i.e. 70% = 0.7)


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