

Water Accounts

Building physical flow accounts with actual data

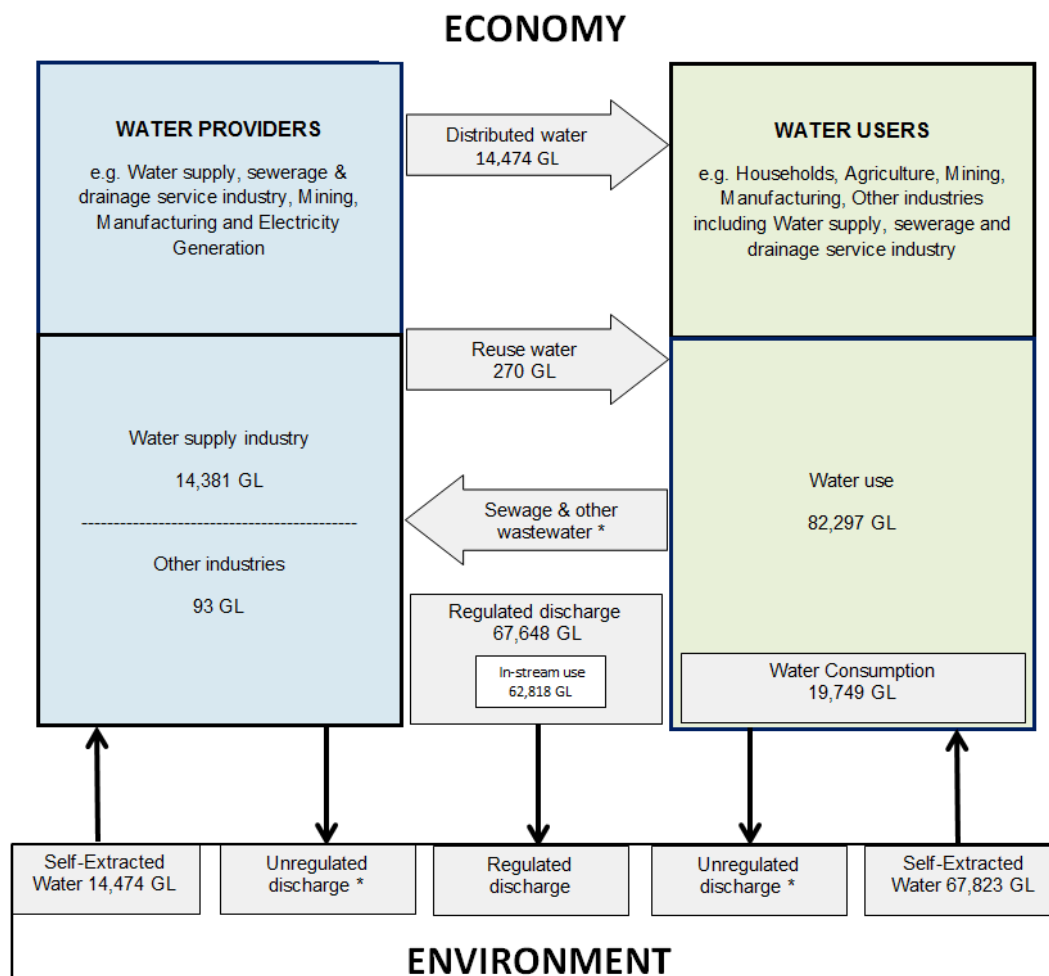
Presented by:
Lauren Binns



Building Accounts with Data

Introduction

Presents annual flows of water from the environment to the economy, within the economy, and from the economy back to the environment



Building Accounts with Data

Introduction



Presents the supply and use of water in the economy by:

Geographic level:

- National
- State and Territory
- Selected areas (e.g. Murray-Darling Basin)

Industry groupings (ANZSIC – Division and sub-division):

- Agriculture
 - Mining
 - Manufacturing
 - Electricity and gas
 - Water Supply and Sewerage Services
 - Other industries
-
- Households



Building Accounts with Data

Introduction



Presents the supply and use of water in the economy by:

Key water products:

- Distributed (supplied) water
- Reuse (recycled) water
- Self-extracted (abstracted) water

- Water discharges (returns)
 - waste-water
 - in-stream use

Core output: Physical Supply and Use (Flow) Tables for water

Building Accounts with Data

Introduction



46100DO007_201213 Water Account Australia, 2012-13

Released at 11:30 am (Canberra time) Thurs 27 Nov 2014

Key products

Table 1 Water supply and use 2012-13 - Australia

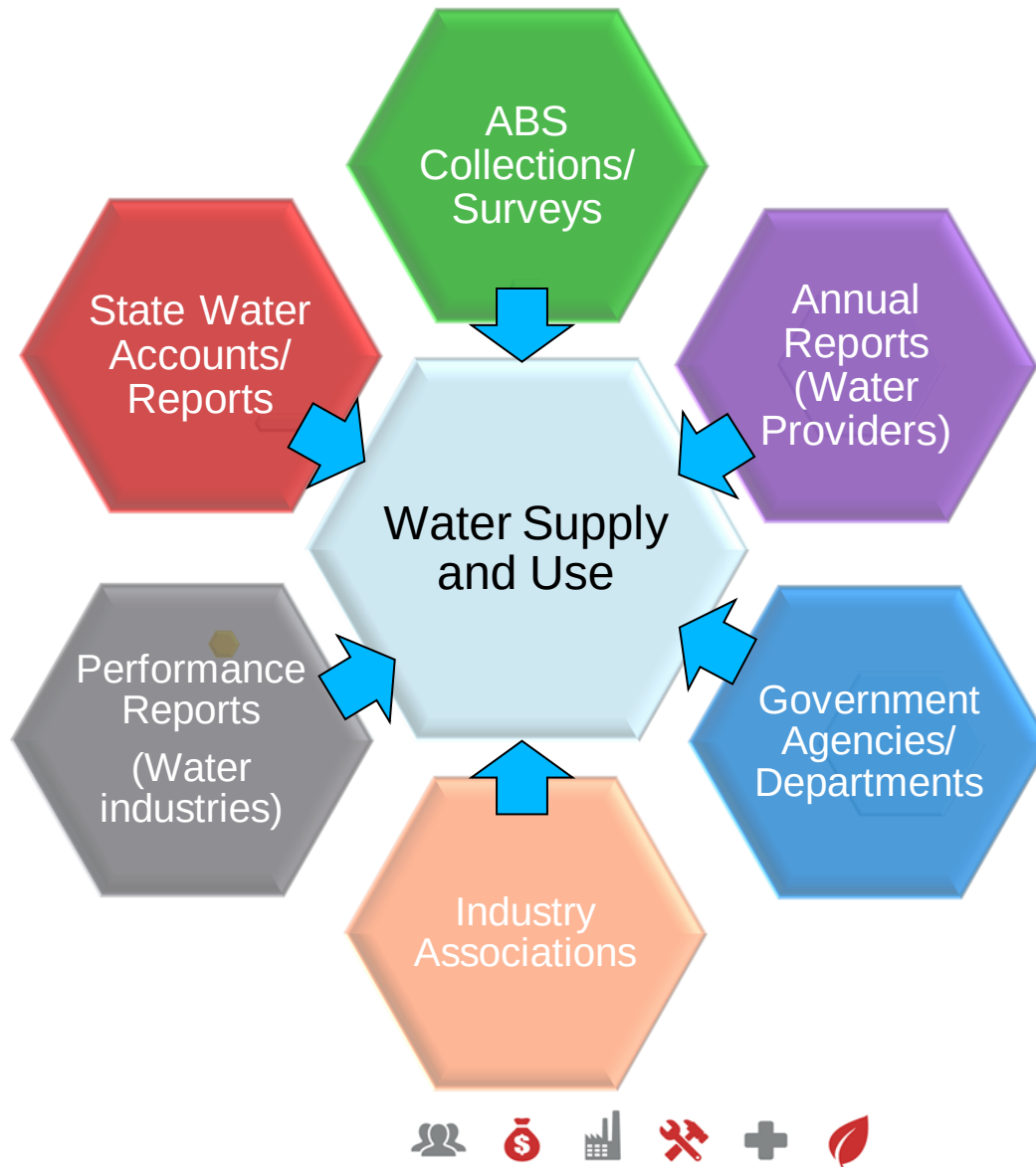
	Supply				Use				Consumption
	Self-extracted ML	Distributed ML	Reuse ML	Regulated discharge ML	Self-extracted ML	Distributed ML	Reuse ML	In-stream use ML	ML
Agriculture and fishing									
Agriculture									
Nursery and floriculture production	0	0	0		21,982	20,092	1,602	0	43,676
Mushroom and vegetable growing	0	0	0		281,366	244,464	10,837	0	536,666
Fruit and tree nut growing	0	0	0		419,632	1,040,024	6,860	0	1,466,516
Sheep, beef cattle and grain farming	0	0	0		1,309,963	4,566,738	15,515	0	5,892,217
Other crop growing	0	0	0		1,181,342	1,454,149	8,133	0	2,643,624
Dairy cattle farming	0	0	0		363,043	1,676,497	28,546	0	2,068,085
Poultry farming	0	0	0						
Deer farming	0	0	0						
Other livestock farming	0	0	0		30,174	55,405	183	0	85,762
Total	0	0	0		3,620,159	9,087,824	71,789	0	12,779,772
Aquaculture	0	111	0	332,023	332,960			331,877	4,897
Forestry and logging	0	0	0		9,982				77,041
Fishing, hunting and trapping	0	0	0	3	3,722	3,684		0	7,473
Agriculture, forestry and fishing support services	0	917	0	16,802	39,194	63,735	190	0	102,201
Mining									
Coal Mining	0	11,304	6,952	112,236	181,622	28,299	965	51,581	148,001
Oil and Gas Extraction	0		57	47,382	73,772	4,560		35,069	42,761
Metal Ore Mining	0	7,021	2,346	192,797	462,830	28,110	3,739	142,601	345,057
Non-Metallic Mineral Mining & Quarrying	0		0	24,985	42,847	7,414		712	49,527
Exploration and Other Mining Support Services	0	4,099	0	27,134	38,101	3,177	87	9,015	28,251
Total	0	23,126	9,355	404,533	799,171	71,559	4,968	238,977	613,596
Manufacturing									
Food, Beverage and Tobacco Product	0	1,095	1,086		140,726	126,780	5,427	0	271,838
Textile, Leather, Clothing and Footwear	0	0	0		77	2,231	271	0	2,579
Wood, Pulp, Paper and Converted Paper Product	0	0	0		27,829	24,551			54,316
Printing (incl the Reproduction of Recorded Media)	0	0	0		8	3,380	3	0	3,391
Petroleum, Coal, Basic Chemical and Chemical Product	0		510		17,728	25,889			43,110
Polymer, Rubber and Non-Metallic Mineral Product	0		0		13,610	17,154			27,074
Primary Metal, Metal and Fabricated Metal Product	0		0		53,422	46,514	17,637		111,126
Transport Equipment, Machinery and Equipment	0	2	0		160	15,517	49	0	15,724
Furniture and Other	0	22	0		86	691	22	0	777
Total	0	7,491	1,596		253,647	262,708			529,935
Electricity, gas, water and waste services									
Electricity and gas supply	0	56,782	4,029	62,829,640	62,365,762	181,927	6,403	62,168,722	328,588
Water supply, sewerage and drainage services	0	14,381,057	254,793	3,440,830	14,381,057	2,313,091	94,435	0	2,407,527
Waste collection, treatment and disposal services	0		41	219		3,911	2,849		6,955
Other industries	0	4,486	6	109,182	337,244	725,716			1,039,899
Household	0	0	0	0	150,567	1,694,735	5,696	0	1,850,998
Environment	82,297,377								
Total	82,297,377	14,474,015	269,821	67,648,032	82,297,377	14,474,015	269,821	62,818,316	19,748,882

Geographic level

Industry groupings

Building Accounts with Data

Data sources ~ Australia



Building Accounts with Data

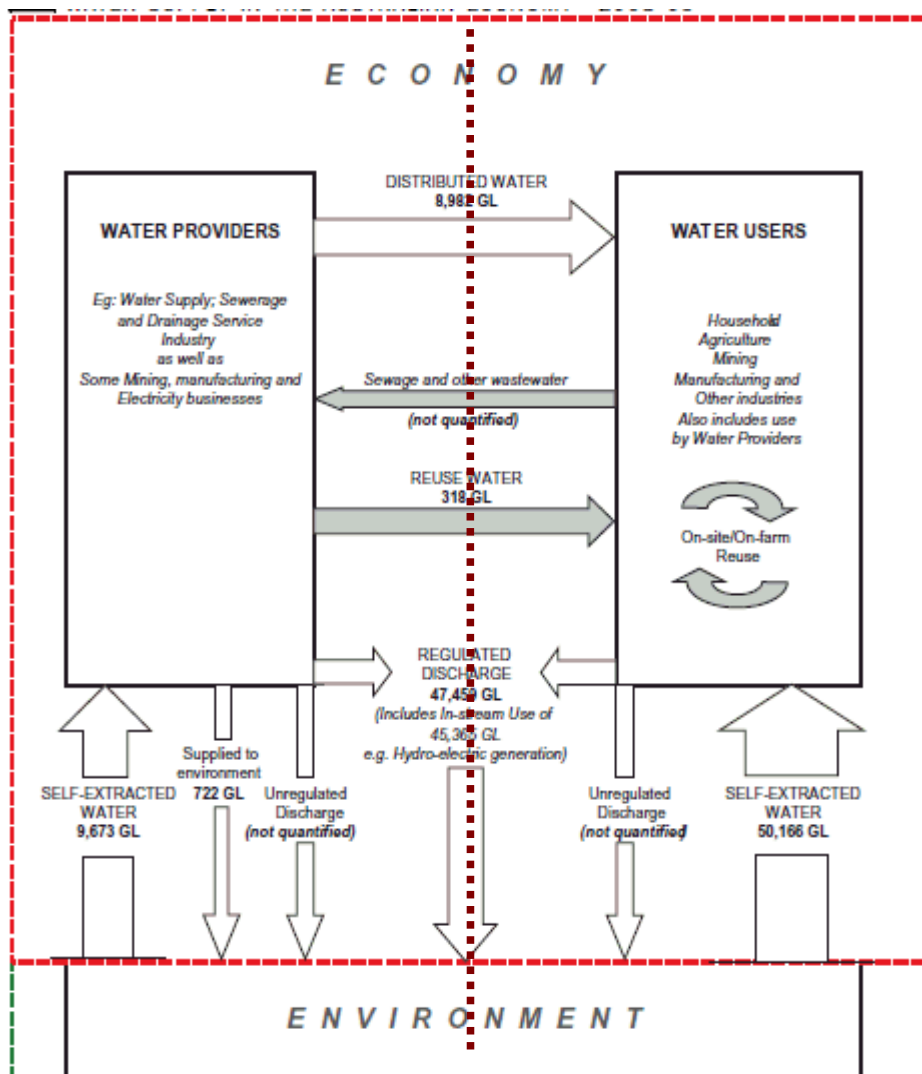
Data sources ~ Australia



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Water Supply Survey

Administrative Data



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Agriculture Survey

Annual Integrated Collection

Electricity Generator Survey

Administrative data

Building Accounts with Data

Data sources ~ Australia



Physical and Monetary information (volume and dollar measures)

- ABS Water Supply and Sewerage Services (WSSS) survey (Annual)
- ABS Rural Environment and Agricultural Commodities Survey (REACs) (Annual)
- ABS Energy, Water and Environment Survey (EWES) (3 yearly)
 - Environmental Indicator Survey (annually in between EWES surveys)
- ABS Electricity Generation survey (EGS) (modelled data)
- Administrative Data
 - Benchmarking Report – New South Wales Office of Water
 - Statewide Water Information Management (SWIM) – Qld Water Directorate
 - Victorian Water Register
 - National Performance Reports
 - Any available data from the web (i.e. utility annual and financial reports, water rates)
- National Accounts Data
- ABS Business Activity Statement Unit Record Estimates

Water Supply and Sewerage Services Survey



- Managed out of the Victorian ABS regional office
- Survey frame – all water suppliers
 - ANZSIC 2811 – Water Supply
 - ANZSIC 2812 – Sewerage and Drainage Services

Includes:

- Water Authorities and Boards
 - Irrigators and Trusts
 - Local Government Councils
 - Water Corporations
- Sample size – 350 units across Australia
 - Qld ~ 128 units, NSW ~ 125, SA ~ 46, WA ~ 28, Vic ~ 19, Tas 3, NT and ACT ~ 1 each
- Annual collection

Water Supply and Sewerage Services Survey



AIC15WSSL

**Water Supply and Sewerage Services
Survey 2014-15**

In correspondence, please quote this number ▼ Australian Business Number

Please correct any errors

Purpose of Collection
This survey collects information on the amount of water extracted, supplied and discharged by the water supply and sewerage services industry in Australia during 2014-15. The information will be used to compile a water account for Australia which shows the supply and use of water in the Australian economy in both physical and monetary terms. This information is used by planners and policy makers in all levels of government and the private sector.

Collection Authority
The information asked for is collected under the authority of the *Census and Statistics Act 1905*. Your cooperation is sought in completing and returning this form by the due date. The Act provides me with the power, if needed, to direct you to provide the information sought.

Confidentiality
Your completed form and personal information remain confidential to the Australian Bureau of Statistics.

Due Date
Please complete this form and return it in the reply paid envelope to the Australian Bureau of Statistics by

Help Available
If you have problems in completing this form, or feel that you may have difficulties meeting the due date, please contact the Australian Bureau of Statistics by:

Telephone
1800 066 744
Freecall (excluding mobile phones)

Mail
Australian Bureau of Statistics
Reply Paid 76746
Sydney NSW 2000

Australian Statistician

Person we should contact if any queries arise regarding this form

Name		Date	
Signature		Telephone	
Email			

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- Annual census
- Question categories:
 - Revenue
 - Expenditure (incl capex)
 - Water sources
 - Bulk water supplied and received
 - Supply to customers
 - Losses
 - Environmental flows
 - Bulk reuse received
 - Wastewater collected, treated and re-supplied or discharged
 - Location of discharges

Water Supply and Sewerage Services Survey

key data items



- Volume of distributed water supplied to residential customers
- Volume of reuse water supplied to residential customers
- Volume of distributed water supplied to non-residential customers, split by industry group
- Volume of reuse water supplied to non-residential customers, split by industry group
- Volume of water lost from the delivery system
- Environmental flows

Unit of measurement = Megalitres (ML or 1,000 kL)



Bureau of Meteorology

- *National Performance Report (urban utilities)*
- *80 urban water utilities across Australia contributing @90- 95% of total State urban water supply*
- *Key data items*
 - *Self-extracted water (ML) (surface, groundwater and desalination)*
 - *Supply to domestic and residential customers*
 - *Supply to non-residential (e.g. commercial, industrial and other split)*
 - *Environmental flows*
 - *Connections*
 - *Sewage collected*
 - *Reuse water supplied*

ABS obtains access to NPR database prior to release of data



NSW Office of Water (NOW)

- *Annual NSW Water Supply and Sewerage Benchmarking Report*
- *106 local urban water utilities in NSW contributing 90% of total urban water supply (does not collect data from rural utilities)*
- *Key data items*
 - *Self-extracted water (ML) (surface, groundwater and desalination)*
 - *Supplied to domestic and residential customers*
 - *Supplied to non-residential (e.g. commercial, industrial and other split)*
 - *Environmental flows*
 - *Connections*
 - *Sewage collected*
 - *Reuse water supplied*

Data provided to ABS prior to public release in March or April



Queensland Water Directorate (QWD)

- *Annual statewide Water Information Management (SWIM) Comparative Report*

- *50 of 128 Water Service providers in Qld (does collect data from rural utilities)*

- *Key data items*

- *Self Extracted water (ML) (surface, groundwater and desalination)*
- *Supplied to domestic and residential customers*
- *Supplied to non-residential (e.g. commercial, industrial and other split)*
- *Environmental flows*
- *Connections*
- *Sewage collected*
- *Reuse water supplied*

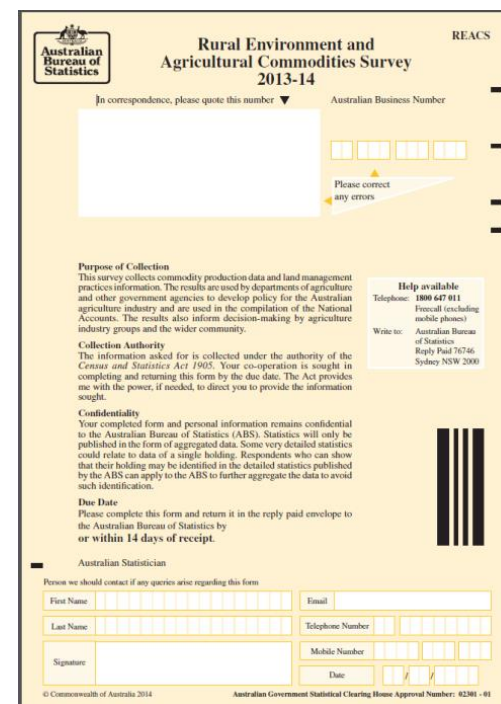
Data provided to ABS prior to public release in March or April

Agricultural Census

Rural Environment & Agricultural Commodity Survey



- Annual survey (Census every 5 years)
- Managed from the ABS Tasmania Office
- Survey frame – ABR-based register
 - Approx 105,000 business units
 - Units flagged as having both agricultural activity and an EVAO of > \$40,000
- In-between Censuses ABS runs the Rural Environment and Agricultural Commodities Survey
 - Sample size – approx 35,000
 - 24-page form
 - 5 pages of water questions



Rural Environment and Agricultural Commodities Survey 2013-14

REACS

In correspondence, please quote this number Australian Business Number

Please correct any errors

Purpose of Collection
This survey collects commodity production data and land management practices information. The results are used by departments of agriculture and other government agencies to develop policy for the Australian agriculture industry and are used in the compilation of the National Accounts. The results also inform decision-making by agriculture industry groups and the wider community.

Collection Authority
The information asked for is collected under the authority of the Census and Statistics Act 1905. Your co-operation is sought in completing and returning this form by the due date. The Act provides me with the power, if needed, to direct you to provide the information sought.

Confidentiality
Your completed form and personal information remains confidential to the Australian Bureau of Statistics (ABS). Statistics will only be published in the form of aggregated data. Some very detailed statistics could relate to data of a single holding. Respondents who can show that their holding may be identified in the detailed statistics published by the ABS can apply to the ABS to further aggregate the data to avoid such identification.

Due Date
Please complete this form and return it in the reply paid envelope to the Australian Bureau of Statistics by or within 14 days of receipt.

Australian Statistician
Persons we should contact if any queries arise regarding this form

First Name Email

Last Name Telephone Number

Signature Mobile Number

Date

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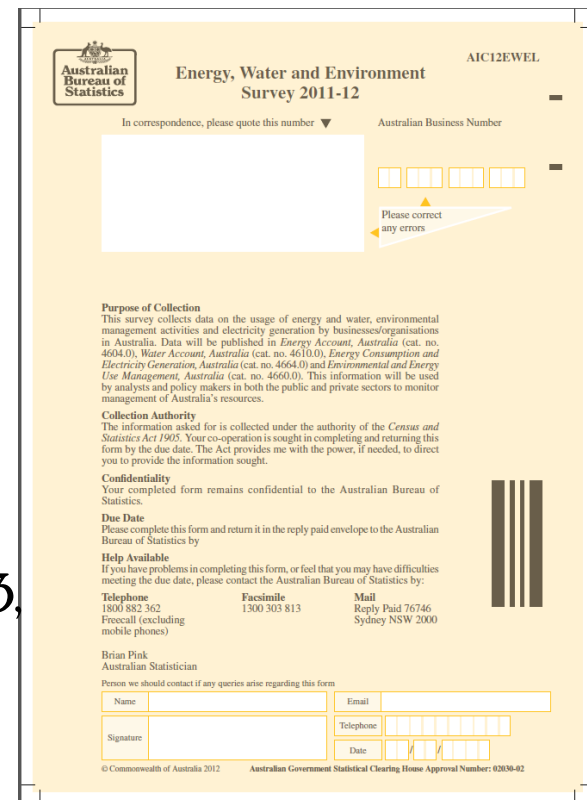


The Agricultural Survey collects data for a wide range of agricultural commodities and land uses:

- Area of holding by land use
- Hay and silage (area and production)
- Cereal crops (area and production)
- Other non-cereal crops (including cotton, sugar cane) (area and production)
- Nurseries, cut flowers and cultivated turf (area)
- Vegetables harvested for human consumption and for seed (area and production)
- Fruit and nut trees, plantation and/or berry fruit (tree number or area and production)
- Cattle, sheep, pigs, poultry and other livestock numbers; and
- Water use and expenditure

Energy, Water and Environment Survey

- Managed by ABS Victoria Office
- Sample selected from the AIS frame
- Survey Scope ~ All industries excluding:
 - Agriculture (ANZSIC06 Subdivision 01);
 - Water Supply, Sewerage and Drainage Services (ANZSIC06 Subdivision 28);
 - Finance (ANZSIC06 Subdivision 62);
 - Insurance (ANZSIC06 Subdivision 63);
 - Private Households Employing Staff (ANZSIC06 Subdivision 96);
 - General Government (SISCA 3000);
 - Finance sector (SISCA 2110, 2121, 2129, 2131, 2132, 2133, 2141, 2142, 2191, 2199, 2301, 2309).



Australian Bureau of Statistics AIC12EWEL

Energy, Water and Environment
Survey 2011-12

In correspondence, please quote this number ▼ Australian Business Number

Please correct any errors

Purpose of Collection
This survey collects data on the usage of energy and water, environmental management activities and electricity generation by businesses/organisations in Australia. Data will be published in *Energy Account, Australia* (cat. no. 4604.0), *Water Account, Australia* (cat. no. 4610.0), *Energy Consumption and Electricity Generation, Australia* (cat. no. 4664.0) and *Environmental and Energy Use Management, Australia* (cat. no. 4660.0). This information will be used by analysts and policy makers in both the public and private sectors to monitor management of Australia's resources.

Collection Authority
The information asked for is collected under the authority of the *Census and Statistics Act 1905*. Your co-operation is sought in completing and returning this form by the due date. The Act provides me with the power, if needed, to direct you to provide the information sought.

Confidentiality
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Due Date
Please complete this form and return it in the reply paid envelope to the Australian Bureau of Statistics by

Help Available
If you have problems in completing this form, or feel that you may have difficulties meeting the due date, please contact the Australian Bureau of Statistics by:

Telephone 1800 882 362
Facsimile 1300 303 813
Mail Reply Paid 76746
Sydney NSW 2000

Brian Pink
Australian Statistician

Person we should contact if any queries arise regarding this form

Name Email

Signature Telephone

Date

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Energy, Water and Environment Survey

Sample design

Division		Population count	Number of selections	Sampling fraction
A	Agriculture, Forestry and Fishing (excluding SD 01)	15,982	765	4.79
B	Mining	4,411	794	18.00
C	Manufacturing	55,061	4,188	7.61
D	Electricity, Gas, Water and Waste Services	3,427	762	22.24
E	Construction	350,593	936	0.27
F	Wholesale trade	45,809	644	1.41
G	Retail Trade	93,960	921	0.98
H	Accommodation and Food services	65,242	551	0.84
I	Transport, Postal and Warehousing	113,313	2,641	2.33
J	Information, Media and telecommunications	10,433	686	6.58
K	Financial and Insurance services	23,888	716	3.00
L	Rental, Hiring and Real Estate services	215,468	1,338	0.62
M	Professional, Technical and Support Services	151,209	889	0.59
N	Administrative and Support services	60,254	1,353	2.25
O	Public Administration and Safety	6,057	1,218	20.11
P	Education and Training	22,749	1,059	4.66
Q	Health Care and Social Assistance	84,507	826	0.98
R	Arts and Recreation Services	23,380	530	2.27
S	Other Services	88,730	670	0.76
Total		1,434,573	21,487	1.50

ABS Physical supply-use tables

46100DO007_201314 Water Account Australia, 2013-14

Released at 11:30 am (Canberra time) Thur 26 Nov 2015

Table 7.1 Water supply and use 2013-14 – Australia

	Supply				Use				Consumption
	Self-extracted	Distributed	Reuse	Regulated discharge	Self-extracted	Distributed	Reuse	In-stream use	
	ML	ML	ML	ML	ML	ML	ML	ML	ML
Agriculture, forestry and fishing									
Agriculture									
Nursery and floriculture production	0	0	0		17,370	22,401	2,247	0	42,018
Mushroom and vegetable growing	0	0	0		270,374	208,120	8,346	0	487,440
Fruit and tree nut growing	0	0	0		393,317	373,933	6,217	0	1,373,467
Sheep, beef cattle and grain farming	0	0	0		1,336,937	2,807,539	27,966	0	4,172,441
Other crop growing	0	0	0		1,347,929	2,215,000	10,780	0	3,573,709
Dairy cattle farming	0	0	0		580,234	1,205,701	45,353	0	1,831,289
Poultry farming	0	0	0						
Deer farming	0	0	0						
Other livestock farming	0	0	0		37,838	38,310	1,778	0	78,526
<i>Total</i>	0	0	0		3,895,557	7,469,967	102,751	0	11,586,036
Aquaculture	0	27	0	535,478	536,647			535,272	6,036
Forestry and logging	0	0	0		6,353				61,416
Fishing, hunting and trapping	0		0		2,759	1,190		0	3,949
Agriculture, forestry and fishing support services	0	1,079	0	15,352	53,974	101,414	278	0	154,587
Mining									
Coal Mining	0	11,100	7,243	112,398	175,533	25,581	1,347	50,115	141,246
Oil and Gas Extraction	0		103	56,752	104,308	7,540		37,571	73,333
Metal Ore Mining	0	7,700	1,425	240,211	516,728	31,882	3,406	181,264	363,052
Non-Metallic Mineral Mining & Quarrying	0		0	21,860	38,417	7,162		1,138	44,589
Exploration and Other Mining Support Services	0	4,650	0	30,012	38,792	3,537	110	8,412	29,378
<i>Total</i>	0	24,564	8,771	461,833	873,779	75,702	5,181	278,439	651,539
Manufacturing									
Food, Beverage and Tobacco Product	0	1,073	1,164		148,294	131,207	6,305	0	284,733
Textile, Leather, Clothing and Footwear	0	0	0		74	2,213	236	0	2,523
Wood, Pulp, Paper and Converted Paper Product	0	0	0		23,751	26,148			58,573
Printing (incl the Reproduction of Recorded Media)	0	0	0		8	3,395	3	0	3,406
Petroleum, Coal, Basic Chemical and Chemical Product	0		557		19,884	32,419			52,000
Polymer, Rubber and Non-Metallic Mineral Product	0		0		13,983	17,436			27,507
Primary Metal, Metal and Fabricated Metal Product	0		0		67,825	55,292	18,890		136,009
Transport Equipment, Machinery and Equipment	0	2	0		156	14,761	49	0	14,964
Furniture and Other	0	23	0		88	705	22	0	792
<i>Total</i>	0	1,097	1,721		280,065	265,575			580,507
Electricity, gas, water and waste services									
Electricity and gas supply	0	59,991	3,880	73,511,761	73,085,631	172,329	3,990	72,868,135	333,823
Water supply, sewerage and drainage services	0	12,881,251	265,583	3,013,372	12,881,251	2,303,363	70,684	78,973	2,295,073
Waste collection, treatment and disposal services	0		40		4,379	3,009			7,626
Other industries									
Household	0	4,431	6	148,760	366,416	776,314			1,089,667
Environment	32,236,673	0	0	0	149,464	1,717,631	4,680	0	1,871,775
Total	32,236,673	12,978,501	280,001	78,233,528	32,236,673	12,978,501	280,001	73,872,521	18,644,153



General rules for balancing the supply~use tables

- Data from the water “supply” sources are confronted/balanced with data from water “use” sources
- Distributed and reuse totals (by state/territory) are derived from the Water Supply and Sewerage Services survey (WSSS)
- Industry splits for distributed and reuse water are derived from a combination of the WSSS and the water use surveys
- Self-extracted water use is derived from the use surveys
- For agriculture:
 - total consumption is derived from the Agricultural survey
 - distributed and reuse splits are derived from the WSSS
 - self-extracted is derived by subtracting distributed and reuse from total consumption

Mapping the survey collections to the physical supply-use tables

Water Supply Survey

46100DO007_201314 Water Account Australia, 2013-14

Released at 11:30 am (Canberra time) Thur 26 Nov 2015

Table 7.1 Water supply and use 2013-14 – Australia

	Supply				Use				Consumption
	Self-extracted ML	Distributed ML	Reuse ML	Regulated discharge ML	Self-extracted ML	Distributed ML	Reuse ML	In-stream use ML	
Agriculture, forestry and fishing									
Agriculture									
Nursery and floriculture production	0	0	0		17,370	22,401	2,247	0	42,018
Mushroom and vegetable growing	0	0	0		270,974	208,120	8,346	0	487,440
Fruit and tree nut growing	0	0	0		393,317	973,933	6,217	0	1,373,467
Sheep, beef cattle and grain farming	0	0	0		1,336,937	2,807,539	27,966	0	4,172,441
Other crop growing	0	0	0		1,347,929	2,215,000	10,780	0	3,573,709
Dairy cattle farming	0	0	0		580,234	1,205,701	45,353	0	1,831,288
Poultry farming	0	0	0						
Deer farming	0	0	0						
Other livestock farming	0	0	0		37,838	38,910	1,778	0	78,526
Total	0	0	0		3,995,357	7,469,567	102,751	0	11,568,036
Aquaculture	0	27	0	535,478	536,647			535,272	6,036
Forestry and logging	0	0	0		6,953				61,416
Fishing, hunting and trapping	0	0	0		2,759	1,190		0	3,949
Agriculture, forestry and fishing support services	0	1,079	0	15,952	53,974	101,414	278	0	154,587
Mining									
Coal Mining	0	11,100	7,243	112,998	175,533	25,581	1,347	50,115	141,246
Oil and Gas Extraction	0		103	56,752	104,308	7,540		37,571	73,333
Metal Ore Mining	0	7,700	1,425	240,211	516,728	31,882	3,406	181,264	363,052
Non-Metallic Mineral Mining & Quarrying	0		0	21,860	38,417	7,162		1,138	44,589
Exploration and Other Mining Support Services	0	4,650	0	30,012	38,792	3,537	110	8,412	29,378
Total	0	24,564	8,771	461,653	873,779	75,702	5,181	278,439	651,599
Manufacturing									
Food, Beverage and Tobacco Product	0	1,073	1,164		148,294	131,207	6,305	0	284,733
Textile, Leather, Clothing and Footwear	0	0	0		74	2,213	236	0	2,523
Wood, Pulp, Paper and Converted Paper Product	0	0	0		23,751	26,148			58,573
Printing (incl the Reproduction of Recorded Media)	0	0	0		8	3,395	3	0	3,406
Petroleum, Coal, Basic Chemical and Chemical Product	0		557		19,884	32,419			52,000
Polymer, Rubber and Non-Metallic Mineral Product	0		0		13,983	17,436			27,507
Primary Metal, Metal and Fabricated Metal Product	0		0		67,825	55,292	18,890		136,009
Transport Equipment, Machinery and Equipment	0	2	0		156	14,761	49	0	14,964
Furniture and Other	0	23	0		88	705	22	0	792
Total	0	1,097	1,721		280,063	285,575			580,507
Electricity, gas, water and waste services									
Electricity and gas supply	0	59,391	3,880	73,511,761	73,085,631	172,329	3,990	72,868,135	333,823
Water supply, sewerage and drainage services	0	12,881,251	265,583	3,013,372	12,881,251	2,303,363	70,684	78,973	2,295,073
Waste collection, treatment and disposal services	0		40		4,379	3,009			7,626
Other industries	0	4,491	6	148,760	366,416	776,314			1,089,667
Household		0	0	0	149,464	1,717,631	4,680	0	1,871,775
Environment	32,236,673								
Total	32,236,673	12,978,501	280,001	78,233,528	92,236,673	12,978,501	280,001	73,872,521	18,644,153

Mapping the survey collections to the physical supply-use tables

Agricultural Survey

46100D0007_201314 Water Account Australia, 2013-14

Released at 11:30 am (Canberra time) Thur 26 Nov 2015

Table 7.1 Water supply and use 2013-14 - Australia

	Supply				Use				Consumption
	Self-extracted	Distributed	Reuse	Regulated discharge	Self-extracted	Distributed	Reuse	In-stream use	
	ML	ML	ML	ML	ML	ML	ML	ML	ML
Agriculture, forestry and fishing									
Agriculture									
Nursery and floriculture production	0	0	0		17,370	22,401	2,247	0	42,018
Mushroom and vegetable growing	0	0	0		270,374	208,120	8,346	0	487,440
Fruit and tree nut growing	0	0	0		333,317	973,333	6,217	0	1,373,467
Sheep, beef cattle and grain farming	0	0	0		1,336,937	2,807,539	27,966	0	4,172,441
Other crop growing	0	0	0		1,347,323	2,215,000	10,780	0	3,573,703
Dairy cattle farming	0	0	0		580,234	1,205,701	45,353	0	1,831,289
Poultry farming	0	0	0						
Deer farming	0	0	0						
Other livestock farming	0	0	0		37,838	38,310	1,778	0	78,526
Total	0	0	0		3,995,397	7,483,987	102,751	0	11,582,036
Aquaculture	0	27	0	535,478	536,647			535,272	6,036
Forestry and logging	0	0	0		6,353				61,416
Fishing, hunting and trapping	0		0		2,753	1,130		0	3,343
Agriculture, forestry and fishing support services	0	1,073	0	15,352	53,374	101,414	278	0	154,587
Mining									
Coal Mining	0	11,100	7,243	112,338	175,533	25,581	1,347	50,115	141,246
Oil and Gas Extraction	0		103	56,752	104,308	7,540		37,571	73,333
Metal Ore Mining	0	7,700	1,425	240,211	516,728	31,882	3,406	181,264	363,052
Non-Metallic Mineral Mining & Quarrying	0		0	21,860	38,417	7,162		1,138	44,589
Exploration and Other Mining Support Services	0	4,650	0	30,012	38,792	3,537	110	8,412	29,378
Total	0	24,564	8,771	461,633	673,779	75,702	5,181	278,499	651,538
Manufacturing									
Food, Beverage and Tobacco Product	0	1,073	1,164		148,234	131,207	6,305	0	284,733
Textile, Leather, Clothing and Footwear	0	0	0		74	2,213	236	0	2,523
Wood, Pulp, Paper and Converted Paper Product	0	0	0		23,751	26,148			58,573
Printing (incl the Reproduction of Recorded Media)	0	0	0		8	3,335	3	0	3,406
Petroleum, Coal, Basic Chemical and Chemical Product	0		557		19,884	32,419			52,000
Polymer, Rubber and Non-Metallic Mineral Product	0		0		13,383	17,436			27,507
Primary Metal, Metal and Fabricated Metal Product	0		0		67,825	55,292	18,890		136,009
Transport Equipment, Machinery and Equipment	0	2	0		156	14,761	43	0	14,964
Furniture and Other	0	23	0		88	705	22	0	792
Total	0	1,097	1,721		280,063	283,575			580,507
Electricity, gas, water and waste services									
Electricity and gas supply	0	53,391	3,880	73,511,761	73,085,631	172,329	3,390	72,868,135	333,823
Water supply, sewerage and drainage services	0	12,881,251	265,583	3,013,372	12,881,251	2,303,363	70,684	78,973	2,295,073
Waste collection, treatment and disposal services	0		40		4,379	3,009			7,626
Other industries	0	4,431	6	148,760	366,416	776,314			1,089,667
Household	0	0	0	0	143,464	1,717,631	4,680	0	1,871,775
Environment	32,236,673								
Total	32,236,673	12,978,501	280,001	78,233,528	92,236,673	12,978,501	280,001	73,872,521	18,644,153

Mapping the survey collections to the physical supply-use tables

EWES Survey

46100D0007_201314 Water Account Australia, 2013-14

Released at 11:30 am (Canberra time) Thur 26 Nov 2015

Table 7.1 Water supply and use 2013-14 – Australia

	Supply				Use				Consumption
	Self-extracted	Distributed	Reuse	Regulated discharge	Self-extracted	Distributed	Reuse	In-stream use	
	ML	ML	ML	ML	ML	ML	ML	ML	ML
Agriculture, forestry and fishing									
Agriculture									
Nursery and floriculture production	0	0	0		17,370	22,401	2,247	0	42,018
Mushroom and vegetable growing	0	0	0		270,374	208,120	8,346	0	487,440
Fruit and tree nut growing	0	0	0		393,317	973,933	6,217	0	1,373,467
Sheep, beef cattle and grain farming	0	0	0		1,336,937	2,807,539	27,966	0	4,172,441
Other crop growing	0	0	0		1,347,929	2,215,000	10,780	0	3,573,709
Dairy cattle farming	0	0	0		580,234	1,205,701	45,353	0	1,831,289
Poultry farming	0	0	0						
Deer farming	0	0	0						
Other livestock farming	0	0	0		37,838	38,910	1,778	0	78,526
Total	0	0	0		3,995,357	7,483,987	102,751	0	11,582,096
Aquaculture	0	27	0	535,478	536,647			535,272	6,036
Forestry and logging	0	0	0		6,953				61,416
Fishing, hunting and trapping	0		0		2,759	1,130		0	3,949
Agriculture, forestry and fishing support services	0	1,079	0	15,952	53,974	101,414	278	0	154,587
Mining									
Coal Mining	0	11,100	7,243	112,398	175,533	25,581	1,347	50,115	141,246
Oil and Gas Extraction	0		103	56,752	104,308	7,540		37,571	73,333
Metal Ore Mining	0	7,700	1,425	240,211	516,728	31,882	3,406	181,264	363,052
Non-Metallic Mineral Mining & Quarrying	0		0	21,860	38,417	7,162		1,138	44,589
Exploration and Other Mining Support Services	0	4,650	0	30,012	38,792	3,537	110	8,412	29,378
Total	0	24,564	8,771	461,633	873,779	75,702	5,181	278,499	651,599
Manufacturing									
Food, Beverage and Tobacco Product	0	1,073	1,164		148,294	131,207	6,305	0	284,733
Textile, Leather, Clothing and Footwear	0	0	0		74	2,213	236	0	2,523
Wood, Pulp, Paper and Converted Paper Product	0	0	0		29,751	26,148			58,573
Printing (incl the Reproduction of Recorded Media)	0	0	0		8	3,395	3	0	3,406
Petroleum, Coal, Basic Chemical and Chemical Product	0		557		19,884	32,419			52,000
Polymer, Rubber and Non-Metallic Mineral Product	0		0		13,983	17,436			27,507
Primary Metal, Metal and Fabricated Metal Product	0		0		67,825	55,292	18,890		136,009
Transport Equipment, Machinery and Equipment	0	2	0		156	14,761	49	0	14,964
Furniture and Other	0	23	0		88	705	22	0	792
Total	0	1,097	1,721		280,063	283,575			580,507
Electricity, gas, water and waste services									
Electricity and gas supply	0	59,991	3,880	73,511,761	73,085,631	172,329	3,990	72,868,135	333,823
Water supply, sewerage and drainage services	0	12,881,251	265,583	3,013,372	12,881,251	2,303,363	70,684	78,973	2,295,073
Waste collection, treatment and disposal services	0		40		4,379	3,009			7,626
Other industries	0	4,431	6	148,760	366,416	776,314			1,083,667
Household	0	0	0	0	143,464	1,717,631	4,680	0	1,871,775
Environment	92,236,673								
Total	92,236,673	12,978,501	280,001	78,233,528	92,236,673	12,978,501	280,001	73,872,521	18,644,153