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Australian National Committee on Irrigation and Drainage 2004/2005 Industry Data

The following pages include the industry statistics and benchmarking data provided as part of the Australian National Committee on Irrigation and Drainage (ANCID) 2004/2005 benchmarking project.

Location and Level of Participation of each Data Provider

The report includes information on 38 irrigation water provider businesses located across Australia, which in total comprises 73 separate irrigation water supply systems. A list of the systems reported is presented on page 12. The geographic locations of these systems are shown on the maps presented on pages 4 and 5.

The ANCID benchmarking project comprises three levels of reporting:

- Tier 1 - basic statistics only (73 systems reported)
- Tier 2 - basic performance indicators plus supporting statistics (26 systems reported)
- Tier 3 - confidential performance indicators (not presented in this report) (18 systems reported and supporting statistics).

Information Presented

The information presented in the attached 43 tables and 26 graphs includes:

- 32 Tier 1 basic statistics for 73 systems
- 47 Tier 1 additional statistics which support the Tier 2 performance indicators for 26 systems
- 69 Tier 2 performance indicators for 26 systems.

A full list of the Tier 1 statistics is on pages 6 and 7.

The Tier 2 indicators are presented under 6 major sub-headings, and answer 19 questions as indicated below:

Major Sub-Heading	No. of Questions	No. of Sub-Questions	No. of Performance Indicators
Environmental	4	10	28
Operational	4	1	9
Financial	2	2	9
Water Access Arrangements	4	1	8
Customers	3	3	9
Social	2	0	6
Total Reported	19	17	69

A complete list of the questions, sub-questions and performance indicators is included in the tables on pages 8, 9 and 10.

In preparing these questions ANCID has attempted to:

- address the key irrigation industry drivers where the irrigation water providers are prepared to make data public.
- cover the financial, social and environmental issues being confronted by the irrigation industry.

Data used to calculate these statistics and performance indicators was provided by the respective irrigation water provider businesses and has not been checked for accuracy. Any questions relating to the data should therefore be conveyed directly to the respective data providers.

Where data was not available at the time of preparing this report it is represented in the attached tables as either "ND" or a blank, and where a response to a particular question was not required, or not applicable, it is represented in the attached tables as "NA".

Important Note: The 2004/2005 report excludes Tier 1 supporting data and Tier 2 data for Lower Murray Water System and Private Diverters which were reported in 2003/2004 and previous years under Sunraysia Rural Water Authority System and Diverters. Comparison of totals from year to year should therefore be made with caution.

Australian National Committee on Irrigation and Drainage 2004/2005 Industry Data

Important Notes

In comparing ANCID benchmarking results care should be taken to note the following.

1. Common Data Sets

The number of participants in the ANCID Benchmarking project and the completeness of responses to each question may vary from year to year. In comparing totals or averages, the number of data points reported, and the level of commonality with the number of participants should be taken into account.

2. Absence of Data for Lower Murray Water

The 2004/2005 ANCID Benchmarking Report excludes Tier 1 supporting data and Tier 2 data for Lower Murray Water System and Private Diverters which were reported in 2003/2004 and previous years under Sunraysia Rural Water Authority System and Diverters. Comparison of totals or averages between reporting years should therefore be made with caution.

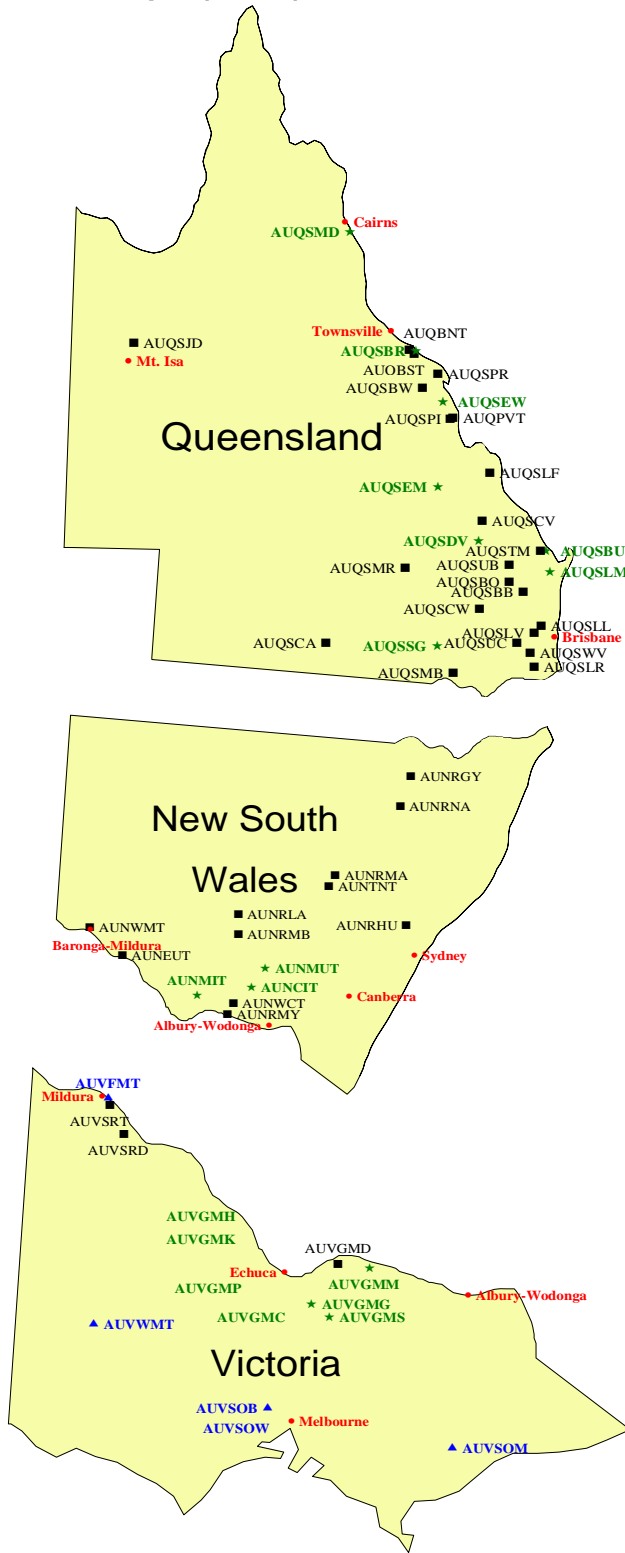
3. Water Delivered and Water Diverted

Up until, and including, the 2001/2002 ANCID Benchmarking Report the focus for such things as portraying the size of an Irrigation Water Provider was based on the amount of water delivered to customers. From 2002/2003 onwards, at the request of the irrigation water providers, water diverted from the supply point to the Irrigation Water Provider system was used for that purpose. The reason for the change is that the volume of water delivered to customers does not include the unaccounted water and system water losses, whereas the volume of water diverted does include losses and unaccounted for water.

4. Water Pricing

From 2004/2005 onwards, water pricing to customers has been based on the assumption that water entitlement will be delivered from each supply point. To enable a total cost per ML of water delivered to be determined for each system, any fixed service charges have been distributed such that a cost per ML can be deduced. It was assumed that water entitlement volumes were delivered to each customer. Prior to 2004/2005 the method used for the distribution of fixed service charges varied between irrigation water providers. Furthermore, prior to 2004/2005 water pricing was based on deliveries to individual customers and not water entitlements.

Map 1 (Part 1) - Location of Australian Irrigation Water Provider Systems



• Number of Systems	31
• Number of Irrigation Customers	7,868
• Reported Area in all Irrigation systems	399,947 ha
• Reported Area Irrigated *	163,536 ha
• Reported Water Entitlement	2,224,657 ML
• Dominant Crops	Sugar Cane/Cotton
• Dominant Industries	Sugar/Cotton

• Number of Systems	14
• Number of Irrigation Customers	12,260
• Reported Area in all Irrigation systems	1,562,543 ha
• Reported Area Irrigated *	400,645 ha
• Reported Water Entitlement	7,789,472 ML
• Dominant Crops	Rice/Cereal Crops
• Dominant Industries	Rice/Cereals

• Number of Systems	15
• Number of Irrigation Customers	16,438
• Reported Area in all Irrigation systems	1,038,128 ha
• Reported Area Irrigated *	520,789 ha
• Reported Water Entitlement	3,228,378 ML
• Dominant Crops	Pasture/Fruit
• Dominant Industries	Dairy/Fresh Fruit

NOT TO SCALE



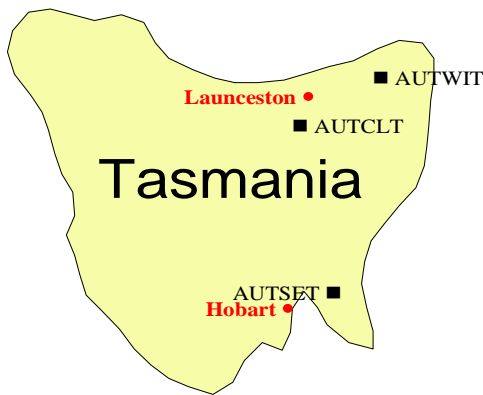
Legend

■ Tier 1 Only ▲ Tier 1 and 2 ★ Tier 1, 2 and 3

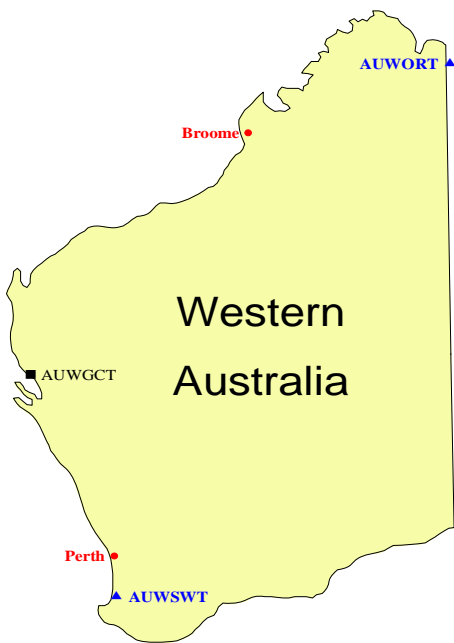
Note: Reported Area Irrigated understates the total area irrigated. The area irrigated was not reported by all of the data providers, and where reported, the figures do not include any area irrigated from private diversions from streams and private groundwater systems.



• Number of Systems	7
• Number of Irrigation Customers	7,452
• Reported Area in all Irrigation systems	154,298 ha
• Reported Area Irrigated *	29,908 ha
• Reported Water Entitlement	941,102 ML
• Dominant Crops	Vines/Citrus
• Dominant Industries	Wine/Fresh Fruit



• Number of Systems	3
• Number of Irrigation Customers	306
• Reported Area in all Irrigation systems	35,975 ha
• Reported Area Irrigated *	1,790 ha
• Reported Water Entitlement	15,095 ML
• Dominant Crops	Pasture/Vegetables
• Dominant Industries	Poppies/Fresh Vegetables



• Number of Systems	3
• Number of Irrigation Customers	1,134
• Reported Area in all Irrigation systems	127,500 ha
• Reported Area Irrigated *	22,631 ha
• Reported Water Entitlement	454,086 ML
• Dominant Crops	Pasture/Fruit
• Dominant Industries	Dairy/Fresh Fruit

NOT TO SCALE



Legend		
■ Tier 1 Only	▲ Tier 1 and 2	★ Tier 1, 2 and 3

Note: Reported Area Irrigated understates the total area irrigated. The area irrigated was not reported by all of the data providers, and where reported, the figures do not include any area irrigated from private diversions from streams and private groundwater systems.

Tier 1 Statistics					
No.	Descriptor	Units	Background or Supporting Statistic?	Sheet	Page
Business Overview					
T1-1	Country	-	Background	Not reported	
T1-2	Continent	-	Background	Not reported	
T1-3	State	-	Background	01 02	12 13
T1-4	Latitude	-	Background	02	13
T1-5	Longitude	-	Background	02	13
T1-6	First year built/operated	Year	Background	02	13
T1-7	Business ownership type	-	Background	02	13
T1-8	Business ownership structure	-	Background	02	13
T1-9	Number of irrigation customers	No.	Supporting	03 08	14 20
T1-10	Number of domestic and stock customers not irrigation customers	No.	Supporting	08	20
T1-11	Number of other customers	No.	Supporting	08	20
T1-12	Number of towns supplied (overall)	No.	Background	03 08	14 20
T1-13	Number of towns serviced (i.e. for which distribution is managed - retail)	No.	Background	08	20
T1-14	Total population of towns serviced (retail)	No	Background	08	20
T1-15	Total population of towns supplied	-	Background	08	20
T1-16	Area within irrigation system boundary	ha	Background	01 03	12 14
T1-17	Stock and domestic area supplied (outside irrigation area)	ha	Supporting	08	20
T1-18	Persons employed for irrigation water delivery and drainage	FTE	Supporting	02 29_O	13 51
T1-19	Persons employed for domestic and stock water delivery	FTE	Supporting	29_O	51
Overview of Water Supply Systems					
T1-20	Source of water supply (% from each source)	%	Background	06	17
T1-21	Lift from primary water source to natural surface (excluding line pressure created)	m	Supporting	10	22
T1-22	Median salinity of water supply - surface	EC	Supporting	24_E	43
T1-23	Gravity water supply system	% area	Supporting	10	22
T1-24	Pumped water supply system (high >30m line pressure at farm gate)	% area	Supporting	10	22
T1-25	Pumped water supply system (low pressure 0m-30m line pressure at the farm gate)	% area	Supporting	10	22
T1-26	Total length of natural waterways used within the distribution system	km	Supporting	06	17
T1-27	Total length of irrigation supply channel (each of lined and unlined)	km	Supporting	06	17
T1-28	Total length of irrigation supply pipeline	km	Supporting	06	17
T1-29	Total length of stock and domestic supply system	km	Background	06	17
T1-30	Start of irrigation supply season	Date	Supporting	10	22
T1-31	Duration of irrigation supply season	months	Supporting	10	22
T1-32	Start of stock and domestic supply season	Date	Supporting	10	22
T1-33	Duration of stock and domestic Supply Season	months	Supporting	10	22
T1-34	Climate Zone	Pick List	Background	01	12
T1-35	Evaporation & Rainfall – Whole year long-term average	mm	Supporting	10	22
T1-36	Evaporation & Rainfall – Whole of current year	mm	Supporting	10	22
T1-80	Number of individual supply points to irrigation customers, on the surface water system	No.	Supporting	17 21_E 22_E	32 40 41
T1-81	Number of individual supply points on surface water system to irrigation customers for which water must be ordered	No.	Supporting	17 40_C	32 76
T1-82	Number of individual supply points to irrigation customers, groundwater supplies	No.	Supporting	17 21_E 22_E	32 40 41
T1-83	Number of supply points to Stock and Domestic (including garden) supplies, where there is irrigation from the same channel or pipe, but no irrigation from the same supply point.	No.	Supporting	17 21_E	32 40
T1-84	Number of supply points from drainage systems	No.	Supporting	17 21_E	32 40
T1-85	Number of supply points to Stock and Domestic (including garden) supplies, from a dedicated Stock & Domestic channel or pipe.	No.	Supporting	08 17 21_E	20 32 40
T1-86	Number of points at which water is diverted into the system	No.	Background	06	17
T1-87	Number of customer irrigation supply points	No.	Supporting	06 08	17 20
Overview of Irrigation Drainage Systems					
Surface Drainage					
T1-37	Is a surface drainage service provided by your business?	yes/no	Background	07 11	18 23
T1-38	Total area serviced by surface drains	ha	Background	07 11	18 23
T1-39	Portion of irrigated land serviced by surface drains	%	Supporting	11	23
T1-40	Area not drained but requiring surface drainage	ha	Supporting	11	23
T1-41	Number of surface drainage customers	No.	Supporting	11	23
T1-42	Type of surface drains	-	Supporting	11	23
T1-43	Length of open drain, drainage waterways and piped drains	km	Background	07 11	18 23
T1-44	Proportion of total drained area monitored for flow at outfalls	%	Supporting	20_E	38
T1-45	Proportion of total drainage flow monitored at its outfall	%	Supporting	20_E	38
T1-46	Salinity of drainage water during irrigation season (median)	EC	Supporting	24_E	43
Sub-surface Drainage					
T1-47	Is a sub-surface drainage service provided by your business?	yes/no	Background	07 12	18 24
T1-48	Total area serviced by sub-surface drainage	ha	Supporting	07 12	18 24
T1-49	Portion of irrigated land service by sub-surface Drains	%	Supporting	12	24
T1-50	Area not currently drained but requiring sub-surface drainage	ha	Supporting	12	24
T1-51	Number of sub-surface drainage customers	No.	Supporting	12	24
T1-52	Type of on-farm sub-surface drainage collection system	-	Background	07 12	18 24

Tier 1 Statistics						
No.	Descriptor	Units	Background or Supporting Statistic?	Sheet	Page	
Overview of Irrigation Drainage Systems (cont.)						
T1-53	Proportion of the area irrigated where the groundwater is within 2m of the natural surface in the summer months	%	Supporting	19_E	35	
T1-54	Salinity of shallow groundwater (range)	EC	Supporting	24_E	43	
Use of Water						
T1-55	Gross Diversions to Water Supply System in current year	ML	Supporting	03 13	14	25
T1-55A	Gross Diversions to Water Supply System for Irrigation Purposes	ML	Supporting	13	25	
T1-55B	Actual Water Delivered - Bulk and Reticulated for Town Supplies	ML	Supporting	08 13	20	25
T1-56	Gross Diversions to Water Supply System, ten year rolling average	ML	Supporting	13	25	
T1-56A	Gross Diversions to Water Supply System for Irrigation Purposes, ten year rolling average	ML	Supporting	13	25	
T1-57	Volume of water used for stock and domestic purposes delivered to the Irrigation District	ML	Supporting	13	25	
T1-58	Volume of water used for stock and domestic purposes delivered to the Water Works District	ML	Supporting	13	25	
T1-59	Total volume of annual Irrigation Water Entitlement held by the business (including its customers)	ML/yr	Supporting	13	25	
T1-60	Stock and domestic water entitlements held by business (including its customers)	ML/yr	Supporting	13	25	
T1-61	Total water entitlements held by business (including its customers)	ML/yr	Background	03	14	
T1-62	Portion of system Water Entitlement classified as high reliability	%	Supporting	35_W	66	
T1-63	Water supply reliability (high and low reliability water)	%	Supporting	35_W	66	
T1-64	Water trading prices (permanent and temporary within and out of agency), (peak and average)	\$/ML	Supporting	23_E 36_W	42	69
T1-65	Area Irrigated in current year	ha	Supporting	01 03 07 08	12	14 18 20
T1-66	Area Irrigated, 10 year average	ha	Supporting	Not reported		
T1-67	Crops (percentage area of crop)	%	Background	04 09	15	21
T1-68	Annual water application rate (each crop)	ML/ha	Supporting	09	21	
T1-69	Gross farm gate value of production in year from irrigation	\$Million	Background	Data not Collected		
T1-70	Dominant industries dependant on irrigation	-	Background	04	15	
Environmental and Social						
T1-71	Number of groundwater level bores monitored/density in the are serviced by your business	No/ (No./ha)	Supporting	19_E	35	
Financial						
T1-72	Gross revenue from your total business in the year	\$000	0	Not reported		
T1-73	Gross revenue from the irrigation and drainage component of your business in the year	\$000	Background	Not reported		
T1-74	Water supply cost recovery tariff structure	-	Supporting	31_F	58	
T1-75	Water supply charges paid by irrigators	-	Supporting	32_F	59	
T1-76	Drainage cost recovery tariff structure	-	Supporting	14	28	
T1-77	Infrastructure management and asset life valuation frequency and process	-	Supporting	15	29	
T1-78	Current replacement value of business infrastructure assets	\$000	Background	02	13	
T1-79	Remaining life of assets	Years	Supporting	16	30	

Tier 2 Indicators				
Heading	Sub-Heading	Indicator	Sheet	Page
ENVIRONMENTAL				
E1 Sustainability of Irrigation in the Local Landscape	E1.1 Land and Water Resource Management Requirements in Business Operation	T2-E.1 Is the business operating in accordance with a Land and Water Management Plan.	18_E	34
		T2-E.2 Is the business operating in accordance with an Environmental Management System (EMS)?	18_E	34
		T2-E.3 Is the business ISO 14001 accredited or progressing toward accreditation?	18_E	34
		T2-E.3A Is the whole irrigation area ISO 14001 accredited or progressing toward accreditation?	18_E	34
	E1.2 Sustainable Irrigation Management Practices	T2-E.4 The proportion of farms which have a Whole Farm Plan.	18_E	34
		T2-E.5 The proportion of farms which have water recycling systems.	18_E	34
		T2-E.6 The proportion of water supplied to the farm gate which is recycled.	18_E	34
	E1.3 Land Use Licences	T2-E.7 The proportion of farms that have a site use licence.	18_E	34
		T2-E.8 The proportion of the irrigated area that is covered by a site use licence.	18_E	34
	E1.4 Management of the Hydrologic Cycle	T2-E.9 The proportion of the area irrigated where the groundwater is within 2m of the natural surface in the summer months.	19_E	35
		T2-E.10 The indicative change in average depth to groundwater in summer over the last five years.	19_E	35
T2-E.11 The proportion of the land areas in need of surface and sub-surface drainage respectively that is drained.		19_E	35	
E2 Water Accounting	E2.1 Metering of Water Supplied	T2-E.12 The proportion of water delivered that is metered.	20_E	38
		T2-E.13 The proportion of irrigation customers that are metered.	20_E 21_E 22_E	38 40 41
		T2-E.13A Type of Meter - surface water system	22_E	41
		T2-E.13B The proportion of groundwater supply points which are metered	20_E 21_E 22_E	38 40 41
		T2-E.13C Type of Meter - groundwater system	22_E	41
		T2-E.13D The proportion of S&D supply points which are also irrigation supply points that are metered	20_E 21_E	38 40
		T2-E.14 The proportion of domestic and stock customers, who are not irrigators, that are metered.	20_E 21_E	38 40
		T2-E.14A The Proportion of drainage irrigation supply points that are metered	20_E 21_E	38
		T2-E.15 The proportion of supply channel outfall / escape structures that are metered.	20_E	38
		E2.2 Relative cost of water saved in 2001/2002	T2-E.16 The cost of water saved through system distribution works relative to market value.	23_E
	E2.3 Tracking the Movement of Traded Water Entitlements	T2-E.17 The proportion of water entitlement that was temporarily transferred into, or out of, the business in the year reported.	23_E 36_W	42 69
		T2-E.18 The proportion of water entitlement that was permanently transferred into, or out of, the business in the year reported.	23_E 36_W	42 69
		T2-E.19 Extent and Geographic Location of Entitlement Monitored?	23_E	42
		T2-E.20 Water Entitlement Trading Monitored to Individual Farm Level?	23_E	42
		E3 Water Salinity Management	E3.1 Salinity of Water Supplied	T2-E.21 The median, peak and lowest salinity of water supplied to the business.
		T2-E.22 The median salinity of water supplied to customers in the year reported.	24_E	43
		T2-E.23 The change in the median salinity of the water supplied to the business over the last five years.	24_E	43
	E3.2 Salinity of Water Discharged	T2-E.24 The median salinity of drainage water leaving The area managed by The business.	24_E	43
		T2-E.25 The general change in salt load in water leaving the area covered by the business over the last 5 years.	24_E	43
	E3.3 Salt Balance	T2-E.26 The amount of salt that entered the area serviced by the business in the last 12 months via the irrigation and groundwater system.	24_E	43
		T2-E.27 The difference between the amount of salt that entered and left the area serviced by the business in the last 12 months via the drainage and groundwater system?	24_E	43
E4 Environmental Focus of the Business		T2-E.28 The three key environmental issues impacting on the business in the last 12 months?	25_E	45

Tier 2 Indicators					
Heading	Sub-Heading	Indicator	Sheet	Page	
OPERATIONAL					
O1	Separation of Organisational Responsibilities	T2-O.1 What functions are part of the business: (water resource assessment and allocation, headworks management, groundwater management, irrigation water distribution, bulk water supply (urban & industrial), urban water distribution, recreation, stock and domestic water supply, surface drainage services and sub-surface drainage services)?	26_O	46	
O2	Water Delivery System Control	T2-O.2 The proportion and number of the regulating structures in the supply system that are remotely controlled or automated.	27_O	47	
		T2-O.2A The number of flow measurement points excluding customer supply points	27_O	47	
		T2-O.3 The average length of supply system per person (FTE) involved in water ordering and delivery of water.	27_O	47	
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Basic Tier 1 Statistics



State	No. of Systems	Statistics Only	Statistics & Benchmarking
NSW	14	11	3
QLD	31	23	8
SA	7	6	1
TAS	3	3	0
VIC	15	3	12
WA	3	1	2
NT	0	0	0
Total	73	47	26

Table 1 - Benchmarking Participation and Reporting Levels - 2004/2005

System	Code	T1-3	T1-16	T1-65	T1-34	Type of Data Provided
		State	Area in Irrigation Scheme (ha)	Area Irrigated, 2004/05 * (ha)	Climate zone	
Coleambally	AUNCIT	NSW	95,153	68,525	Semi-arid	Statistics & Benchmarking
Euston	AUNEUT	NSW	1,603	ND	Semi-arid	Statistics Only
Murray Irrigation	AUNMIT	NSW	748,000	190,000	Semi-arid	Statistics & Benchmarking
Murrumbidgee	AUNMUT	NSW	480,000	125,135	Semi-arid	Statistics & Benchmarking
West Corrgan	AUNWCT	NSW	212,000	12,870	Semi-arid	Statistics Only
Western Murray	AUNWMT	NSW	4,337	3,825	Semi-arid	Statistics Only
Trangie Nevertire	AUNTNT	NSW	21,450	290	Semi-arid	Statistics Only
Diverters: Murrumbidgee	AUNRMB	NSW	ND	ND	Semi-arid	Statistics Only
Diverters: Gwyder	AUNRGY	NSW	ND	ND	Semi-arid	Statistics Only
Diverters: Hunter	AUNRHU	NSW	ND	ND	Semi-arid	Statistics Only
Diverters: Lachlan	AUNRLA	NSW	ND	ND	Semi-arid	Statistics Only
Diverters: Macquarie	AUNRMA	NSW	ND	ND	Semi-arid	Statistics Only
Diverters: Namoi	AUNRNA	NSW	ND	ND	Semi-arid	Statistics Only
Diverters: Murray	AUNRMY	NSW	ND	ND	Semi-arid	Statistics Only
SW Barker-Barambah	AUQSBB	QLD	8,590	8,590	Semi-arid	Statistics Only
SW Bowen Broken	AUQSBW	QLD	400	ND	Semi-arid	Statistics Only
SW Boyne River	AUQSBO	QLD	3,255	3,255	Semi-arid	Statistics Only
SW Bundaberg	AUQSBU	QLD	59,200	ND	Semi-arid	Statistics & Benchmarking
SW Burdekin-Haughton	AUQSBR	QLD	45,850	ND	Semi-arid	Statistics & Benchmarking
SW Callide Valley	AUQSCV	QLD	2,000	2,000	Semi-arid	Statistics Only
SW Central Lockyer	AUQSLV	QLD	10,850	ND	Semi-arid	Statistics Only
SW Chinchilla Weir	AUQSCW	QLD	700	ND	Semi-arid	Statistics Only
SW Cunnamulla	AUQSCA	QLD	420	ND	Semi-arid	Statistics Only
SW Dawson Valley	AUQSDV	QLD	7,529	7,529	Semi-arid	Statistics & Benchmarking
SW Eton Water	AUQSEW	QLD	14,500	14,500	Semi-arid	Statistics & Benchmarking
SW Julius Dam	AUQSJD	QLD	ND	ND	Semi-arid	Statistics Only
SW Logan River	AUQSLR	QLD	3,996	ND	Semi-arid	Statistics Only
SW Lower Fitzroy	AUQSLF	QLD	200	200	Semi-arid	Statistics Only
SW Lower Lockyer	AUQSLL	QLD	4,500	ND	Semi-arid	Statistics Only
SW Macintyre Brook	AUQSMB	QLD	2,050	ND	Semi-arid	Statistics Only
SW Maranoa River	AUQSMR	QLD	20	ND	Semi-arid	Statistics Only
SW Mareeba-Dimbulah	AUQSMD	QLD	30,000	18,000	Semi-arid	Statistics & Benchmarking
SW Mary River	AUQSLM	QLD	19,110	6,190	Semi-arid	Statistics & Benchmarking
SW Nogoa Mackenzie	AUQSEM	QLD	26,000	26,000	Semi-arid	Statistics & Benchmarking
SW Pioneer River	AUQSPI	QLD	ND	ND	Semi-arid	Statistics Only
SW Proserpine	AUQSPR	QLD	7,800	7,800	Semi-arid	Statistics Only
SW St George	AUQSSG	QLD	16,119	12,000	Semi-arid	Statistics & Benchmarking
SW Three Moon Creek	AUQSTM	QLD	2,268	2,268	Semi-arid	Statistics Only
SW Upper Burnett	AUQSUB	QLD	3,440	3,440	Semi-arid	Statistics Only
SW Upper Condamine	AUQSUC	QLD	25,000	ND	Semi-arid	Statistics Only
SW Warrill Valley	AUQSWV	QLD	8,170	ND	Semi-arid	Statistics Only
Pioneer Valley	AUQPVT	QLD	22,000	9,900	Humid tropics	Statistics Only
North Burdekin	AUQBNT	QLD	48,530	25,864	Semi-arid	Statistics Only
South Burdekin **	AUQBST	QLD	27,450	16,000	Semi-arid	Statistics Only
Diverters: Queensland	AUQRDR	QLD	ND	ND	Semi-arid	Statistics Only
Angas Bremer	AUSABT	SA	8,000	7,869	Semi-arid	Statistics Only
South East Region (SA)	AUSSET	SA	80,000	ND	Semi-arid	Statistics Only
Central Irrigation	AUSCIT	SA	15,000	13,521	Semi-arid	Statistics & Benchmarking
Golden Heights	AUSGHT	SA	828	778	Semi-arid	Statistics Only
Lower Murray	AUSLMT	SA	3,572	ND	Semi-arid	Statistics Only
Sunlands	AUSSUT	SA	898	796	Semi-arid	Statistics Only
Barossa Valley Area	AUSBAT	SA	46,000	6,944	Semi-arid	Statistics Only
Cressy-Longford	AUTCLT	TAS	14,667	ND	Semi-arid	Statistics Only
South East (TAS)	AUTSET	TAS	15,077	1,790	Semi-arid	Statistics Only
Winnaleah	AUTWIT	TAS	6,231	ND	Semi-arid	Statistics Only
First Mildura	AUVFMT	VIC	7,817	6,370	Semi-arid	Statistics & Benchmarking
G-MW Murray Valley	AUVGMM	VIC	122,457	63,360	Semi-arid	Statistics & Benchmarking
G-MW Shepparton	AUVGMS	VIC	82,460	43,981	Semi-arid	Statistics & Benchmarking
G-MW Central Goulburn	AUVGMG	VIC	172,131	94,482	Semi-arid	Statistics & Benchmarking
G-MW Rochester	AUVGMC	VIC	117,066	46,826	Semi-arid	Statistics & Benchmarking
G-MW Pyramid-Boort	AUVGMP	VIC	186,481	86,948	Semi-arid	Statistics & Benchmarking
G-MW Torrumbarry	AUVGMK	VIC	173,366	83,510	Semi-arid	Statistics & Benchmarking
G-MW Swan Hill Pumped	AUVGMH	VIC	8,518	4,899	Semi-arid	Statistics & Benchmarking
G-MW River Diverters	AUVGMD	VIC	53,583	ND	Semi-arid	Statistics Only
SRW Bacchus Marsh	AUVSOB	VIC	1,812	1,368	Semi-arid	Statistics & Benchmarking
SRW Macalister	AUVSOM	VIC	55,000	36,100	Semi-arid	Statistics & Benchmarking
SRW Werribee	AUVSOW	VIC	6,000	6,000	Semi-arid	Statistics & Benchmarking
Lower Murray - System	AUVSRT	VIC	12,522	11,130	Semi-arid	Statistics Only
Lower Murray - Diverters	AUVSRD	VIC	35,815	35,815	Semi-arid	Statistics Only
Wimmera-Mallee	AUVWMT	VIC	3,100	ND	Semi-arid	Statistics & Benchmarking
Gascoyne Irrigation	AUWGCT	WA	2,000	960	Arid	Statistics Only
Ord Irrigation	AUWORT	WA	13,500	13,500	Other	Statistics & Benchmarking
Harvey Water	AUWSWT	WA	112,000	8,171	Semi-arid	Statistics & Benchmarking
Totals			3,318,391	1,139,299		
Business totals						
SunWater (Qld)	AUQSWT	QLD	283,408	ND	Semi-arid	
Goulburn Murray (Vic)	AUVGMT	VIC	866,094	ND	Semi-arid	

* Reported Area Irrigated understates the total area irrigated. The area irrigated was not reported by all of the data providers, and where reported, the figures do not include any area irrigated from private diversions from streams and private groundwater systems.

** The function and purpose of the South Burdekin Water Board (SBWB) is to improve the quantity and quality of groundwater for irrigation use. Supply of irrigation water to the irrigators is more complex than direct surface water supply, involving water spreading and deep drainage of soils which enhance the groundwater replenishment process. The environment/aquifer within SBWB is actually SBWB's beneficiary, supported financially by commercial user contributions. As far as SBWB is aware, there are no comparable water service providers to which SBWB's operations can be benchmarked.

Table 02 - General Business Overview - Part 1 - 2004/2005

System	T1-3	T1-4	T1-5	T1-6	T1-7	T1-8	T1-18	T1-73	T1-78
	State	Latitude (South)	Longitude (East)	Year First Built	Ownership Type	Ownership Structure	Persons Employed for Irrigation (FTE)	Revenue from Irrigation & Drainage 2004/2005 (\$'000)	Current Replacement Value of Assets (\$'000)
Coleambally	NSW	35.01	146.05	1963	Private	Cooperative	42	7,018	115,710
Euston	NSW	34.34	142.41	1948	Private	Cooperative	1	ND	4,500
Murray Irrigation	NSW	35.31	144.57	1932	Unlisted Company	Company	123	18,748	700,000
Murrumbidgee	NSW	34.25	146.12	1912	Unlisted Company	Company	193	15,698	380,000
West Corugan	NSW	35.32	145.33	1969	Private	Authority	8	1,207	ND
Western Murray	NSW	34.06	142.00	1912	Unlisted Company	Company	9	2,687	42,125
Trangie Nevertire	NSW	32.00	148.00	1971	Listed Company	Cooperative	4	ND	ND
Diverters: Murrumbidgee	NSW	34.30	146.00	1912	State owned	Corporation	28	ND	ND
Diverters: Gwyder	NSW	29.30	150.00	1973	State owned	Corporation	11	ND	ND
Diverters: Hunter	NSW	32.30	151.15	1958	State owned	Corporation	5	ND	ND
Diverters: Lachlan	NSW	33.45	146.30	1935	State owned	Corporation	22	ND	ND
Diverters: Macquarie	NSW	32.15	148.30	1966	State owned	Corporation	17	ND	ND
Diverters: Namoi	NSW	30.30	150.00	1960	State owned	Corporation	11	ND	ND
Diverters: Murray	NSW	36.00	145.00	1936	State owned	Corporation	46	ND	ND
SW Barker-Barambah	QLD	26.14	151.53	1988	State owned	Corporation	1	625	51,850
SW Bowen Broken	QLD	20.45	147.55	1983	State owned	Corporation	ND	333	66,426
SW Boyne River	QLD	25.52	151.24	1982	State owned	Corporation	0	698	119,584
SW Bundaberg	QLD	24.56	152.10	1970	State owned	Corporation	41	8,598	373,191
SW Burdekin-Haughton	QLD	19.47	147.17	1953	State owned	Corporation	0	ND	427,489
SW Callide Valley	QLD	24.23	150.35	1965	State owned	Corporation	2	576	92,793
SW Central Lockyer	QLD	27.33	152.22	ND	State owned	Corporation	ND	658	60,309
SW Chinchilla Weir	QLD	26.49	150.35	1974	State owned	Corporation	ND	67	4,951
SW Cunnamulla	QLD	28.02	145.41	1991	State owned	Corporation	ND	45	2,232
SW Dawson Valley	QLD	24.40	149.58	1926	State owned	Corporation	7	2,162	57,462
SW Eton Water	QLD	21.16	148.58	1975	State owned	Corporation	0	2,215	118,560
SW Julius Dam	QLD	20.12	139.43	1976	State owned	Corporation	ND	ND	40,918
SW Logan River	QLD	28.03	152.54	1995	State owned	Corporation	ND	380	41,089
SW Lower Fitzroy	QLD	23.05	150.05	1995	State owned	Corporation	4	15	37,568
SW Lower Lockyer	QLD	27.26	152.30	ND	State owned	Corporation	ND	514	22,276
SW Macintyre Brook	QLD	28.30	150.58	1968	State owned	Corporation	ND	634	51,778
SW Maranoa River	QLD	26.28	147.56	1984	State owned	Corporation	ND	25	4,663
SW Mareeba-Dimbulah	QLD	17.05	145.20	1953	State owned	Corporation	31	4,647	214,283
SW Mary River	QLD	25.59	152.38	1964	State owned	Corporation	4	1,056	69,494
SW Nogoa Mackenzie	QLD	23.24	148.43	1968	State owned	Corporation	15	4,307	205,922
SW Pioneer River	QLD	21.12	148.49	ND	State owned	Corporation	ND	410	65,129
SW Proserpine	QLD	20.22	148.26	1990	State owned	Corporation	ND	484	56,283
SW St George	QLD	28.05	148.36	1953	State owned	Corporation	17	2,325	59,458
SW Three Moon Creek	QLD	24.50	151.04	1982	State owned	Corporation	2	338	24,968
SW Upper Burnett	QLD	25.24	151.27	ND	State owned	Corporation	1	589	46,635
SW Upper Condamine	QLD	27.53	151.33	ND	State owned	Corporation	ND	530	49,520
SW Warrill Valley	QLD	27.50	152.38	ND	State owned	Corporation	ND	122	17,513
Pioneer Valley	QLD	21.10	149.07	1997	State owned	Authority	4	1,765	23,353
North Burdekin	QLD	19.32	147.22	1965	State owned	Authority	18	ND	24,922
South Burdekin	QLD	19.44	147.23	1966	State owned	Authority	6	1,900	12,000
Diverters: Queensland	QLD	ND	ND	1975	State owned	Govt. Dept.	ND	625	3,918
Angas Bremer	SA	35.16	138.53	1995	Listed Company	Other *	ND	ND	ND
South East Region (SA)	SA	37.52	140.50	1998	State owned	Authority	14	ND	ND
Central Irrigation	SA	34.15	140.30	1910	Private	Company	30	7,582	223,877
Golden Heights	SA	34.12	140.00	1959	Listed Company	Trust	5	850	ND
Lower Murray	SA	35.60	139.16	1929	Private	Trust	2	489	ND
Sunlands	SA	34.12	140.00	1961	Listed Company	Trust	7	834	ND
Barossa Valley Area	SA	34.22	138.37	ND	State owned	Authority	2	ND	ND
Cressy-Longford	TAS	41.36	147.03	1972	Listed Company	Company	3	ND	5,161
South East (TAS)	TAS	42.46	147.25	1986	State owned	Authority	2	565	18,497
Winnaleah	TAS	41.04	147.55	1986	State owned	Authority	2	223	23,089
First Mildura	VIC	34.13	142.07	1887	No data	Trust	28	4,994	111,644
G-MW Murray Valley	VIC	36.00	145.30	1939	State owned	Authority	58	11,504	266,390
G-MW Shepparton	VIC	36.30	145.00	1910	State owned	Authority	32	9,112	244,777
G-MW Central Goulburn	VIC	36.30	145.00	1891	State owned	Authority	62	17,739	430,117
G-MW Rochester	VIC	36.15	144.30	1912	State owned	Authority	53	8,885	261,111
G-MW Pyramid-Boort	VIC	36.00	144.00	1912	State owned	Authority	29	6,866	199,617
G-MW Torrumbarry	VIC	35.15	144.00	1905	State owned	Authority	59	13,305	279,355
G-MW Swan Hill Pumped	VIC	35.30	143.15	1920	State owned	Authority	3	2,559	24,254
G-MW River Diverters	VIC	36.15	145.00	1890	State owned	Authority	23	3,809	8,802
SRW Bacchus Marsh	VIC	37.40	144.25	1914	State owned	Authority	3	ND	5,585
SRW Macalister	VIC	37.59	148.58	1926	State owned	Authority	35	ND	110,308
SRW Werribee	VIC	37.56	144.42	1914	State owned	Authority	9	ND	12,743
Lower Murray - System	VIC	34.13	142.11	1910	State owned	Authority	56	ND	165,130
Lower Murray - Diverters	VIC	34.13	142.11	1890	State owned	Authority	6	ND	8,500
Wimmera-Mallee	VIC	35.57	142.32	1887	State owned	Authority	4	ND	196,000
Gascoyne Irrigation	WA	24.50	113.44	1971	Private	Cooperative	6	2,096	17,000
Ord Irrigation	WA	15.39	128.46	1963	Private	Cooperative	9	ND	260,000
Harvey Water	WA	33.04	115.53	1915	Private	Cooperative	18	2,287	85,000
Totals							1,233	175,700	6,645,829
Business totals									
SunWater (Qld)	QLD	ND	ND		State owned	Corporation	ND	46,740	2,382,364
Goulburn Murray (Vic)	VIC	36.30	145.00		State owned	Authority	441	ND	1,727,086

* Individual Farmers

Table 03 - General Business Overview - Part 2 - 2004/2005

	T1-16	T1-65	T1-61	T1-55	T1-9	T1-12
	Area in Irrigation Scheme	Area Irrigated, 2004/05	Total Entitlement to Water	Total Diversions into Supply System 2004/2005	Number of Irrigation Customers	Number of Towns Supplied Overall (Bulk and Reticulation)
System	(ha)	(ha)	(ML/year)	(ML)		
Coleambally	95,153	68,525	497,892	384,710	349	1
Euston	1,603	ND	8,236	ND	75	0
Murray Irrigation	748,000	190,000	1,479,000	1,284,693	2,407	4
Murrumbidgee	480,000	125,135	1,189,984	826,207	2,668	8
West Corugan	212,000	12,870	161,756	39,228	620	3
Western Murray	4,337	3,825	61,268	31,769	327	0
Trangie Nevertire	21,450	290	68,901	3,619	66	ND
Diverters: Murrumbidgee	ND	ND	1,065,676	625,567	879	19
Diverters: Gwyder	ND	ND	536,874	153,195	205	6
Diverters: Hunter	ND	ND	200,305	61,951	920	6
Diverters: Lachlan	ND	ND	689,416	19,348	1,082	10
Diverters: Macquarie	ND	ND	619,892	58,566	641	6
Diverters: Namoi	ND	ND	264,353	96,823	345	2
Diverters: Murray	ND	ND	945,919	336,283	1,676	21
SW Barker-Barambah	8,590	8,590	31,192	22,187	156	3
SW Bowen Broken	400	ND	5,736	ND	9	1
SW Boyne River	3,255	3,255	13,715	7,163	156	ND
SW Bundaberg	59,200	ND	183,060	132,181	921	4
SW Burdekin-Haughton	45,850	ND	608,482	966,800	331	5
SW Callide Valley	2,000	2,000	18,255	10,313	134	3
SW Central Lockyer	10,850	ND	3,977	5,505	151	1
SW Chinchilla Weir	700	ND	2,867	1,621	25	1
SW Cunnamulla	420	ND	2,474	2,010	23	0
SW Dawson Valley	7,529	7,529	52,888	42,989	138	2
SW Eton Water	14,500	14,500	51,257	25,024	232	1
SW Julius Dam	ND	ND	ND	ND	0	0
SW Logan River	3,996	ND	13,538	3,369	132	1
SW Lower Fitzroy	200	200	3,101	ND	6	0
SW Lower Lockyer	4,500	ND	11,196	454	136	0
SW Macintyre Brook	2,050	ND	17,692	9,837	85	1
SW Maranoa River	20	ND	798	17	5	0
SW Mareeba-Dimbulah	30,000	18,000	150,689	133,000	892	3
SW Mary River	19,110	6,190	40,949	27,156	407	3
SW Nogo Mackenzie	26,000	26,000	167,195	208,880	217	2
SW Pioneer River	ND	ND	46,526	10,055	1	2
SW Proserpine	7,800	7,800	38,075	31,420	85	2
SW St George	16,119	12,000	71,761	79,815	165	1
SW Three Moon Creek	2,268	2,268	13,994	13,478	88	2
SW Upper Burnett	3,440	3,440	29,724	21,015	161	3
SW Upper Condamine	25,000	ND	30,361	1,121	96	3
SW Warrill Valley	8,170	ND	20,689	327	264	3
Pioneer Valley	22,000	9,900	46,414	14,438	291	0
North Burdekin	48,530	25,864	160,000	ND	ND	0
South Burdekin	27,450	16,000	ND	ND	317	1
Diverters: Queensland	ND	ND	388,052	ND	2,244	1
Angas Bremer	8,000	7,869	33,051	17,757	186	1
South East Region (SA)	80,000	ND	718,685	ND	5,573	ND
Central Irrigation	15,000	13,521	161,101	118,902	1,508	5
Golden Heights	828	778	8,499	7,102	60	0
Lower Murray	3,572	ND	ND	ND	60	0
Sunlands	898	796	8,953	7,292	65	0
Barossa Valley Area	46,000	6,944	10,813	6,245	ND	0
Cressy-Longford	14,667	ND	8,299	ND	118	0
South East (TAS)	15,077	1,790	3,426	3,020	143	0
Winnaleah	6,231	ND	3,370	4,750	45	2
First Mildura	7,817	6,370	84,113	58,297	1,616	1
G-MW Murray Valley	122,457	63,360	273,657	428,759	1,231	6
G-MW Shepparton	82,460	43,981	191,452	254,983	2,500	3
G-MW Central Goulburn	172,131	94,482	455,660	534,857	2,900	5
G-MW Rochester	117,066	46,826	231,827	300,345	946	5
G-MW Pyramid-Boort	186,481	86,948	231,664	273,354	600	6
G-MW Torrumbarry	173,366	83,510	352,109	722,059	2,200	0
G-MW Swan Hill Pumped	8,518	4,899	31,352	25,245	500	0
G-MW River Diverters	53,583	ND	705,872	ND	0	43
SRW Bacchus Marsh	1,812	1,368	3,661	3,304	130	0
SRW Macalister	55,000	36,100	124,874	278,700	950	2
SRW Werribee	6,000	6,000	13,825	13,100	226	0
Lower Murray - System	12,522	11,130	100,060	95,320	1,411	2
Lower Murray - Diverters	35,815	35,815	230,412	195,880	810	0
Wimmera-Mallee	3,100	ND	197,840	86,527	418	52
Gascoyne Irrigation	2,000	960	10,350	9,168	512	0
Ord Irrigation	13,500	13,500	335,000	300,000	64	0
Harvey Water	112,000	8,171	108,736	95,540	558	0
Totals 2004/2005	3,318,391	1,139,299	14,652,790	9,532,640	45,458	268
Business totals						
SunWater (Qld)	283,408	ND	1,629,759	1,778,339	5,242	ND
Goulburn Murray (Vic)	866,094	ND	2,381,978	ND	16,672	76

Table 04 - Industries Supported and Crops Grown - 2004/2005

System	T1-67	T1-67	T1-70	T1-70
	Main Cultures Irrigated (Crops Grown)		Dominant Industries Supported by Irrigation	
	Main Culture	Second Culture	Main Industry	Second Industry
Coleambally	Wheat	Pasture	Rice	Grains and fodder for
Euston	Vines	Pasture	Fresh Fruit	
Murray Irrigation	Annual Pasture	Rice	Rice	Cereals
Murrumbidgee	Rice	Horticulture	Rice	Wine
West Cororgan	Winter Cereal	Summer Crop	Cereal	Rice
Western Murray	Vines	Citrus	Wine	Fresh Fruit
Trangle Nevertire	Cotton	Lucerne/Pastures	Research	Lucerne/Pastures
Diverters: Murrumbidgee	ND	ND		
Diverters: Gwyder	Cotton	ND		
Diverters: Hunter	ND	ND		
Diverters: Lachlan	ND	ND		
Diverters: Macquarie	ND	ND		
Diverters: Namoi	Cotton	ND		
Diverters: Murray	ND	ND		
SW Barker-Barambah	Broad Acre Crops	Cotton/Viticulture	Cotton	Broad Acre Crops
SW Bowen Broken	Pasture	Lucerne		
SW Boyne River	Citrus	Dairy	Citrus	Dairy
SW Bundaberg	Sugar cane	Macadamias	Sugar	
SW Burdekin-Haughton	Sugar Cane	Small Crops	Sugar	Horticulture
SW Callide Valley	ND	ND		
SW Central Lockyer	Vegetables	Lucerne		
SW Chinchilla Weir	Cereal Crop	ND		
SW Cunnamulla	Cotton	Small Crops/vineyards	Cotton Production	Vineyards
SW Dawson Valley	Cotton	Lucerne	Cotton	
SW Eton Water	Sugar Cane	ND		
SW Julius Dam	ND	ND		
SW Logan River	Dairy	Lucerne	Rendering	Town Water
SW Lower Fitzroy	ND	ND	NIL	
SW Lower Lockyer	Vegetables	Dairy		
SW Macintyre Brook	Mixed cropping	ND		
SW Maranoa River	Pasture	Small crops - pumpkins	Grazing	Small Crops
SW Mareeba-Dimbulah	Sugar Cane	Mangoes	Bananas	Sugar Cane
SW Mary River	Sugar cane	Tree crops	Sugar	
SW Nogoa Mackenzie	Cotton	Citrus	Cotton	Citrus
SW Pioneer River	Sugar cane	Various small crops	Sugar	
SW Proserpine	Sugar cane	Various small crops	Sugar	
SW St George	Cotton	Grape Vines	Cotton	Vines
SW Three Moon Creek	Lucerne	Forage crops		
SW Upper Burnett	Citrus	Dairy/Viticulture	Citrus	Viticulture/Horticulture
SW Upper Condamine	Cotton	Sorghum	Cotton	
SW Warrill Valley	Vegetables	Dairy	Power	Town water
Pioneer Valley	Sugar Cane	ND	Sugar Cane	
North Burdekin	Sugar Cane	Vegetables	Sugar	Fresh Vegetables
South Burdekin	Sugar Cane	Vegetables	Sugar	Fresh Vegetables
Diverters: Queensland	Cotton	Sugar	Cotton	Sugar
Angas Bremer	Grapes	Potatoes	Wine	Fresh vegetables
South East Region (SA)	Pasture	Grapes	Dairy/ Beef	Wine
Central Irrigation	Grapes	Citrus	Wine	Juice
Golden Heights	Citrus	Viticulture	Fresh fruit	Wine
Lower Murray	Perennial pasture	Annual pasture	Dairy	Beef
Sunlands	Citrus	Vines	Fresh fruit	Wine
Barossa Valley Area	Grapes	Landscapes	Wine	Fresh fruit
Cressy-Longford	Annual pasture	Peas	Poppies	Fat lambs
South East (TAS)	Peas	Vines	Fresh vegetables	Wine
Winnaleah	Annual pasture	Potatoes	Dairy	Fresh vegetables
First Mildura	Vines	Citrus	Wine	Table Grapes
G-MW Murray Valley	Perennial pasture	Annual pasture	Dairy	Canning fruit
G-MW Shepparton	Perennial pasture	Annual pasture	Dairy	Canning fruit
G-MW Central Goulburn	Perennial pasture	Annual pasture	Dairy	Horticulture
G-MW Rochester	Perennial pasture	Annual pasture	Dairy	Beef
G-MW Pyramid-Boort	Annual pasture	Perennial pasture	Dairy	Beef
G-MW Torrumbarry	Perennial pasture	Annual pasture	Dairy	Cropping & grazing
G-MW Swan Hill Pumped	Stone fruit	Vines	Fresh fruit	Wine
G-MW River Diverters	Annual pasture	Permanent pasture	Dairy	
SRW Bacchus Marsh	Vegetables	Orchard	Vegetables	Orchard
SRW Macalister	Permanent pasture	Annual pasture	Dairy	Beef
SRW Werribee	Vegetables	Various	Fresh vegetables	
Lower Murray - System	Viticulture	Citrus	Wine	Fresh fruit
Lower Murray - Diverters	Grapes	Citrus	Wine	Dried fruit
Wimmera-Mallee	Perennial pasture	Lucerne	Dairy	
Gascoyne Irrigation	Vegetables	Fruit	Fresh fruit	Fresh vegetables
Ord Irrigation	Cane	Trees	Sugar	Fresh Fruit
Harvey Water	Perennial pasture	Annual pasture	Dairy	Beef
Business totals				
SunWater (Qld)	Sugar	Cotton		
Goulburn Murray (Vic)	Perennial pasture	Annual pasture	Dairy	Grazing

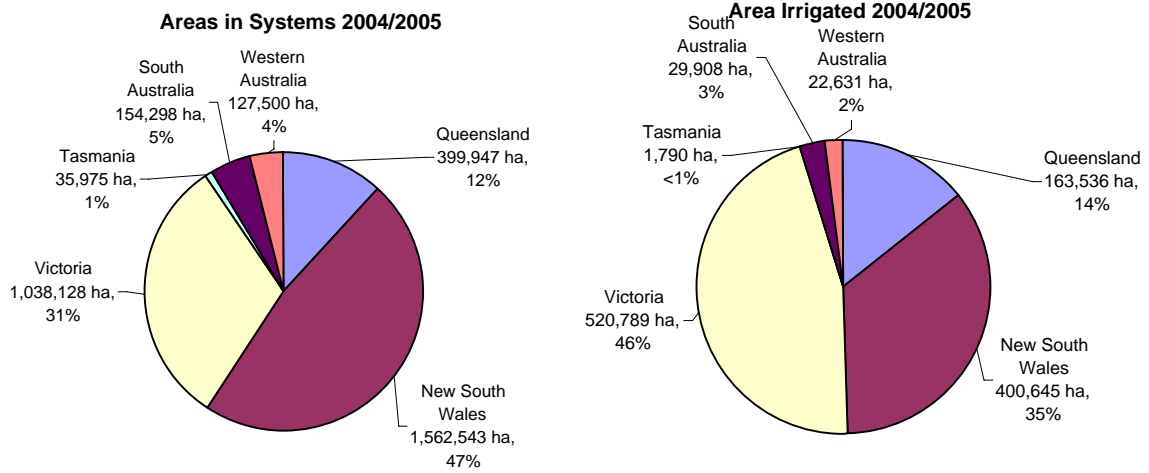
Table 05 - Irrigation Areas and Diversions, Totals by State - 2004/2005

State	Number of Systems Reported	Area in Systems (ha)	Area Irrigated 2004/2005 (ha)	Total Diversions for Irrigation 2004/2005 (ML)
Queensland	31	399,947	163,536	1,391,763
New South Wales	14	1,562,543	400,645	3,132,063
Victoria	15	1,038,128	520,789	3,087,082
Tasmania	3	35,975	1,790	7,770
South Australia	7	154,298	29,908	154,288
Western Australia	3	127,500	22,631	274,168
Total, all data provided	73	3,318,391	1,139,299	8,047,134

Note: These are the total areas and volumes according to data provided by systems which participated in the 2004/2005 survey, not the overall totals for each state.

For example:

- Participating systems in Queensland diverted 1,391,763 ML, but not all participating systems provided data on areas irrigated in 2004/2005.
- Not all systems in New South Wales, Victoria and South Australia provided Area Irrigated.



Diversions for Irrigation 2004/2005

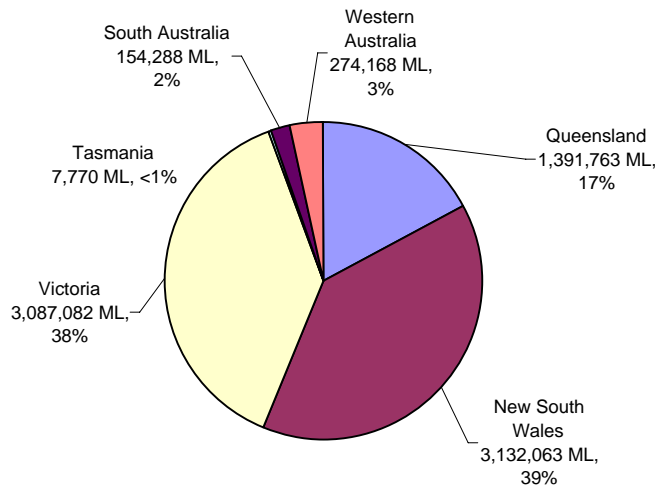


Table 06 - Overview of Irrigation Supply System - 2004/2005

System	Source of Water Supply						Length of carriers						
	T1-20	T1-20	T1-20	T1-20	T1-20	T1-86	T1-26	T1-27	T1-27	T1-28	T1-29	T1-87	
	Direct from Reservoir	Con-trolled Stream	Uncon-trolled Stream	Ground-water	Re-cycled Water	Other	Number of Diversion Points to System	Natural Water Courses as Carriers	Irrigation Supply Channel Unlined	Irrigation Supply Channel Lined	Irrigation Supply Pipeline Length	Stock and Domestic Supply System Length	Number of Irrigation Supply Points
(%)	(%)	(%)	(%)	(%)	(%)	(%)	(km)	(km)	(km)	(km)	(km)		
Coleambally	0	98	0	2	0	0	1	0	116	400	0	162	788
Euston	0	100	0	0	0	0	ND	0	0	0	15	0	ND
Murray Irrigation	0	100	0	0	0	0	2	0	2,948	1	10	0	3,873
Murrumbidgee	0	75	5	0	20	0	2	0	2,045	166	77	342	4,054
West Cororgan	0	100	0	0	0	0	1	0	575	0	0	0	455
Western Murray	0	100	0	0	0	0	3	0	0	0	113	0	485
Trangie Nevertire	0	0	100	0	0	0	ND	0	244	0	0	0	ND
Diverters: Murrumbidgee	0	100	0	0	0	0	ND	2,007	0	0	0	0	879
Diverters: Gwyder	0	100	0	0	0	0	ND	650	0	0	0	300	205
Diverters: Hunter	0	100	0	0	0	0	ND	260	0	0	0	0	920
Diverters: Lachlan	0	100	0	0	0	0	ND	1,294	0	0	0	500	1,082
Diverters: Macquarie	0	100	0	0	0	0	ND	650	0	0	0	600	641
Diverters: Namoi	0	100	0	0	0	0	ND	590	0	0	0	120	345
Diverters: Murray	0	100	0	0	0	0	ND	1,776	0	0	0	0	1,676
SW Barker-Barambah	0	100	0	0	0	0	3	125	0	0	6	0	323
SW Bowen Broken	0	100	0	0	0	0	1	187	0	0	0	0	120
SW Boyne River	0	100	0	0	0	0	4	110	0	0	96	0	191
SW Bundaberg	0	100	0	0	0	0	5	129	83	24	529	ND	1,795
SW Burdekin-Haughton	0	85	0	15	0	0	6	206	279	53	64	0	1,268
SW Callide Valley	0	100	0	0	0	0	4	115	21	0	87	0	337
SW Central Lockyer	0	100	0	0	0	0	7	45	6	0	20	0	661
SW Chinchilla Weir	73	27	0	0	0	0	6	100	0	0	0	0	40
SW Cunnamulla	100	0	0	0	0	0	1	17	0	0	0	0	27
SW Dawson Valley	0	100	0	0	0	0	4	330	42	1	4	ND	366
SW Eton Water	0	10	0	0	0	90	1	0	39	4	147	0	635
SW Julius Dam	0	100	0	0	0	0	ND	0	0	0	0	0	ND
SW Logan River	0	100	0	0	0	0	3	128	0	0	0	0	231
SW Lower Fitzroy	0	100	0	0	0	0	1	68	0	0	28	0	23
SW Lower Lockyer	0	100	0	0	0	0	2	59	14	0	2	0	225
SW Macintyre Brook	0	100	0	0	0	0	7	78	0	0	0	0	184
SW Maranoa River	100	0	0	0	0	0	6	8	0	0	0	0	5
SW Mareeba-Dimbulah	0	100	0	0	0	0	2	276	72	87	217	0	1,954
SW Mary River	0	100	0	0	0	0	4	275	7	0	43	0	578
SW Nogoa Mackenzie	0	100	0	0	0	0	2	347	103	9	17	0	538
SW Pioneer River	0	100	0	0	0	0	4	124	0	0	2	0	20
SW Proserpine	0	100	0	0	0	0	3	58	8	0	2	0	178
SW St George	0	100	0	0	0	0	2	114	113	0	1	ND	390
SW Three Moon Creek	0	100	0	0	0	0	3	100	5	0	0	0	216
SW Upper Burnett	0	100	0	0	0	0	5	263	0	0	0	0	309
SW Upper Condamine	0	79	21	0	0	0	5	293	0	0	4	0	186
SW Warrill Valley	0	100	0	0	0	0	7	118	20	0	6	0	525
Pioneer Valley	0	100	0	0	0	0	4	100	5	0	35	ND	400
North Burdekin	0	65	35	0	0	0	ND	0	ND	ND	ND	0	ND
South Burdekin	0	50	50	0	0	0	3	0	116	0	14	0	202
Diverters: Queensland	0	0	17	71	0	12	ND	ND	ND	ND	ND	ND	ND
Angas Bremer	0	93	0	7	0	0	ND	0	0	0	150	ND	ND
South East Region (SA)	0	0	0	100	0	0	ND	0	ND	0	0	ND	ND
Central Irrigation	0	100	0	0	0	0	10	0	0	0	403	0	2,275
Golden Heights	0	0	100	0	0	0	1	0	0	0	32	0	400
Lower Murray	0	100	0	0	0	0	ND	ND	106	0	2	0	ND
Sunlands	0	0	100	0	0	0	1	0	0	0	35	0	352
Barossa Valley Area	0	48	20	29	3	0	ND	ND	ND	ND	ND	ND	ND
Cressy-Longford	0	100	0	0	0	0	ND	50	ND	151	2	ND	ND
South East (TAS)	100	0	0	0	0	0	ND	24	ND	ND	26	ND	ND
Winnaleah	70	0	30	0	0	0	ND	0	ND	ND	35	ND	ND
First Mildura	0	0	100	0	0	0	1	0	4	36	230	0	1,206
G-MW Murray Valley	100	0	0	0	0	0	2	199	956	0	1	NA	3,226
G-MW Shepparton	0	100	0	0	0	0	1	0	650	22	16	384	2,678
G-MW Central Goulburn	0	100	0	0	0	0	7	0	1,355	0	38	NA	5,951
G-MW Rochester	0	100	0	0	0	0	4	0	692	2	50	NA	2,641
G-MW Pyramid-Boort	0	100	0	0	0	0	1	37	1,220	4	0	426	2,293
G-MW Torrumbarry	0	100	0	0	0	0	1	359	1,209	2	2	NA	4,519
G-MW Swan Hill Pumped	0	100	0	0	0	0	3	0	0	0	140	NA	792
G-MW River Diverters	2	28	26	44	0	0	ND	ND	0	0	0	0	ND
SRW Bacchus Marsh	0	100	0	0	0	0	1	0	0	15	28	0	175
SRW Macalister	80	15	0	5	0	0	ND	0	568	20	33	0	2,408
SRW Werribee	0	100	0	0	0	0	1	0	2	50	12	0	403
Lower Murray - System	0	100	0	0	0	0	3	0	12	25	312	502	ND
Lower Murray - Diverters	0	100	0	0	0	0	ND	500	0	0	0	0	ND
Wimmera-Mallee	59	23	18	0	0	0	ND	0	100	0	0	8,700	243
Gascoyne Irrigation	0	0	0	100	0	0	1	0	0	0	38	0	ND
Ord Irrigation	0	100	0	0	0	0	2	0	150	0	0	ND	139
Harvey Water	100	0	0	0	0	0	5	18	283	149	173	0	1,315
Total							159	12,187	14,168	1,221	3,297	12,036	58,346
Business totals													
SunWater (Qld)	0	91	0	6	0	3	98	ND	1,454	154	1,275	ND	11,197
Goulburn Murray (Vic)	ND	ND	ND	ND	ND	ND	17	595	6,082	30	247	810	21,371

Table 07 - Overview of Surface and Sub-surface Drainage Systems - 2004/2005

System	Surface Drainage				Sub-surface Drainage		
	T1-65	T1-37	T1-38	T1-43	T1-47	T1-48	T1-52
	Area Irrigated, 2004/05 (ha)	Surface Drainage Provided	Area Serviced by Surface Drains (ha)	Length of Collectors (drains and pipes) (km)	Sub- surface Drainage Provided	Area Serviced by Sub-surface Drainage (ha)	Type of on-farm sub-surface drainage collection system
Coleambally	68,525	Y	95,000	711	Y	40	Pumped bores
Euston	ND		0	0		0	(No subsurface drains)
Murray Irrigation	190,000	Y	263,000	1,250	Y	55,000	Pipes, Pumped bores
Murrumbidgee	125,135	Y	208,696	1,599	Y	10,000	Surface drains & Pipes, Pumped bores
West Cororgan	12,870		0	0		0	(No subsurface drains)
Western Murray	3,825	Y	4,000	160	Y	3,000	Pipes
Trangie Nevertire	290		ND	ND		0	(No subsurface drains)
Diverters: Murrumbidgee	ND		ND	ND		ND	(No subsurface drains)
Diverters: Gwyder	ND		ND	ND		ND	(No subsurface drains)
Diverters: Hunter	ND		ND	ND		ND	(No subsurface drains)
Diverters: Lachlan	ND		ND	ND		ND	(No subsurface drains)
Diverters: Macquarie	ND		ND	ND		ND	(No subsurface drains)
Diverters: Namoi	ND		ND	ND		ND	(No subsurface drains)
Diverters: Murray	ND		ND	ND		ND	(No subsurface drains)
SW Barker-Barambah	8,590		0	0		0	(No subsurface drains)
SW Bowen Broken	ND		0	0		0	(No subsurface drains)
SW Boyne River	3,255		0	0		0	(No subsurface drains)
SW Bundaberg	ND		0	ND		0	(No subsurface drains)
SW Burdekin-Haughton	ND	Y	26,660	346		0	(No subsurface drains)
SW Callide Valley	2,000		0	0		0	(No subsurface drains)
SW Central Lockyer	ND		0	0		0	(No subsurface drains)
SW Chinchilla Weir	ND		0	0		0	(No subsurface drains)
SW Cunnamulla	ND		0	0		0	(No subsurface drains)
SW Dawson Valley	7,529	Y	2,027	54		0	(No subsurface drains)
SW Eton Water	14,500		0	0		0	(No subsurface drains)
SW Julius Dam	ND		0	0		0	(No subsurface drains)
SW Logan River	ND		0	0		0	(No subsurface drains)
SW Lower Fitzroy	200		0	0		0	(No subsurface drains)
SW Lower Lockyer	ND		0	0		0	(No subsurface drains)
SW Macintyre Brook	ND		0	0		0	(No subsurface drains)
SW Maranoa River	ND		0	0		0	(No subsurface drains)
SW Mareeba-Dimbulah	18,000	Y	0	62		0	(No subsurface drains)
SW Mary River	6,190		0	0		0	(No subsurface drains)
SW Nogoa Mackenzie	26,000	Y	17,093	146	Y	2,000	Pipes
SW Pioneer River	ND		0	0		0	(No subsurface drains)
SW Proserpine	7,800		0	0		0	(No subsurface drains)
SW St George	12,000	Y	8,809	99		0	(No subsurface drains)
SW Three Moon Creek	2,268		0	0		0	(No subsurface drains)
SW Upper Burnett	3,440		0	0		0	(No subsurface drains)
SW Upper Condamine	ND		0	0		0	(No subsurface drains)
SW Warrill Valley	ND		0	0		0	(No subsurface drains)
Pioneer Valley	9,900		0	0		0	(No subsurface drains)
North Burdekin	25,864		ND	ND		0	(No subsurface drains)
South Burdekin	16,000		ND	ND		0	(No subsurface drains)
Diverters: Queensland	ND		ND	ND		ND	(No subsurface drains)
Angas Bremer	7,869		ND	ND		0	(No subsurface drains)
South East Region (SA)	ND	Y	ND	1,780		0	(No subsurface drains)
Central Irrigation	13,521		0	347	Y	8,908	Pipes
Golden Heights	778		0	0	Y	4	Pipes & Grav. bores
Lower Murray	ND	Y	3,572	72		0	(No subsurface drains)
Sunlands	796		0	0	Y	122	Pipes & Grav. bores
Barossa Valley Area	6,944		0	0		0	(No subsurface drains)
Cressy-Longford	ND		0	0		0	(No subsurface drains)
South East (TAS)	1,790		0	0		0	(No subsurface drains)
Winnaleah	ND		0	0		0	(No subsurface drains)
First Mildura	6,370		0	287	Y	6,106	Pipes
G-MW Murray Valley	63,360	Y	62,230	487	Y	44,500	Pumped bores
G-MW Shepparton	43,981	Y	48,020	445	Y	2,649	Pumped bores
G-MW Central Goulburn	94,482	Y	125,800	897	Y	22,643	Pumped bores
G-MW Rochester	46,826	Y	41,680	509	Y	4,344	Surface drains & Pipes, Pumped bores
G-MW Pyramid-Boort	86,948	Y	37,296	111	Y	500	Surface drains & Pipes, Pumped bores
G-MW Torrumbarry	83,510	Y	61,446	640	Y	1,300	Surface drains
G-MW Swan Hill Pumped	4,899	Y	0	133	Y	3,921	Surface drains & Pipes
G-MW River Diverters	ND		0	0		0	(No subsurface drains)
SRW Bacchus Marsh	1,368		0	0		0	(No subsurface drains)
SRW Macalister	36,100	Y	41,250	511	Y	0	Pumped bores
SRW Werribee	6,000	Y	3,000	62		0	(No subsurface drains)
Lower Murray - System	11,130		0	500	Y	10,672	Pipes
Lower Murray - Diverters	35,815		0	151	Y	8,500	Pipes
Wimmera-Mallee	ND	Y	0	33		0	(No subsurface drains)
Gascoyne Irrigation	960		0	0		0	(No subsurface drains)
Ord Irrigation	13,500	Y	13,500	160		0	(No subsurface drains)
Harvey Water	8,171	Y	112,000	0		ND	Surface drains & Pipes
Totals	1,139,299	23	1,175,079	11,552	19	184,209	
Business totals							
SunWater (Qld)	ND	Y	55,889	740		ND	(No subsurface drains)
Goulburn Murray (Vic)	ND	Y	333,250	3,222	Y	79,850	Pipes, Pumped bores

**Additional Tier 1 Statistics
(Supporting Tier 2 Indicators)**

Table 08 - Customers and Towns Supplied - 2004/2005

System	T1-65	T1-17	T1-9	T1-87	T1-10	T1-85	T1-11		T1-12	T1-15	T1-13	T1-14	T1-55B
	Area Irrigated, 2004/05 (ha)	Stock and Domestic Area Supplied (ha)	Number of Irrigation Customers	Number of Irrigation Supply Points	Number of Stock & Domestic Customers (not irrigators)	Number of Dedicated Stock & Domestic Supply Points	Number of Other Customers	Total Number of Customers	Number of Towns Supplied Overall	Population of Towns Supplied (People)	Number of Towns Serviced (Retail)	Population of Towns Serviced (Retail) (People)	Water Entitlement for Towns (ML)
Coleambally	68,525	300,000	349	788	5	0	1	355	1	600	0	0	174
Murray Irrigation	190,000	ND	2,407	3,873	0	0	0	2,407	4	ND	0	0	3,170
Murrumbidgee	125,135	235,000	2,668	4,054	92	636	0	2,760	8	35,000	0	ND	19,699
SW Bundaberg	ND	0	921	1,795	ND	NA	13	934	4	ND	0	ND	8,253
SW Burdekin-Haughton	ND	0	331	1,268	ND	NA	89	420	5	ND	0	ND	10,058
SW Dawson Valley	7,529	0	138	366	ND	NA	12	150	2	ND	0	ND	1,350
SW Eton Water	14,500	0	232	635	ND	NA	48	280	1	ND	0	ND	177
SW Mareeba-Dimbulah	18,000	0	892	1,954	ND	NA	302	1,194	3	ND	0	ND	3,076
SW Mary River	6,190	0	407	578	ND	NA	8	415	3	ND	0	ND	10,099
SW Nogoia Mackenzie	26,000	0	217	538	ND	NA	126	343	2	ND	0	ND	7,295
SW St George	12,000	0	165	390	ND	NA	1	166	1	ND	0	ND	1,725
Central Irrigation	13,521	ND	1,508	2,275	2,718	0	74	4,300	5	1,050	1	200	236
First Mildura	6,370	0	1,616	1,206	1,008	NA	0	2,624	1	ND	0	ND	ND
G-MW Murray Valley	63,360	0	1,231	3,226	299	NA	ND	1,530	6	ND	0	ND	1,585
G-MW Shepparton	43,981	47,600	2,500	2,678	494	ND	0	2,994	3	730	0	ND	187
G-MW Central Goulburn	94,482	0	2,900	5,951	721	NA	0	3,621	5	ND	ND	ND	4,859
G-MW Rochester	46,826	0	946	2,641	544	NA	3	1,493	5	ND	0	ND	1,443
G-MW Pyramid-Boort	86,948	0	600	2,293	123	ND	303	1,026	6	ND	ND	ND	0
G-MW Torrumbarry	83,510	0	2,200	4,519	356	NA	ND	2,556	0	ND	4	8,000	1,976
G-MW Swan Hill Pumped	4,899	0	500	792	163	ND	0	663	0	ND	ND	ND	ND
SRW Bacchus Marsh	1,368	0	130	175	0	NA	ND	130	0	ND	ND	ND	0
SRW Macalister	36,100	0	950	2,408	1,200	ND	0	2,150	2	ND	ND	ND	0
SRW Werribee	6,000	0	226	403	0	NA	0	226	0	ND	ND	ND	0
Wimmera-Mallee	ND	2,800,000	418	243	6,500	ND	0	6,918	52	ND	0	ND	10,380
Ord Irrigation	13,500	0	64	139	0	NA	0	64	0	0	0	0	0
Harvey Water	8,171	0	558	1,315	0	NA	8	566	0	ND	0	ND	ND
Totals 2004/2005	976,915	3,382,600	25,074	46,503	14,223	636	988	40,285	119	37,380	5	8,200	85,742
Business totals													
SunWater (Qld)	ND	0	5,242	11,197	ND	NA	873	6,115	ND	ND	ND	ND	83,934
Goulburn Murray (Vic)	ND	593,052	16,672	21,371	8,577	ND	ND	25,249	76	ND	ND	ND	ND

Table 09 - Crop Water Use and Value Information - 2004/2005

System	T1-67	T1-67	T1-68	T1-67	T1-67	T1-68	T1-67	T1-67	T1-68
	Main Culture Irrigated	Area Grown Under Irrigation	Application Rate per Season (Approx)	Second Culture Irrigated	Area Grown Under Irrigation	Application Rate per Season (Approx)	Third Culture Irrigated	Area Grown Under Irrigation	Application Rate per Season (Approx)
		(ha)	(ML/ha)		(ha)	(ML/ha)		(ha)	(ML/ha)
Coleambally	Wheat	20,287	2.2	Pasture	15,336	2.0	Rice	8,142	12.9
Murray Irrigation	Annual Pasture	ND	ND	Rice	1,783	11.0	Cereal		
Murrumbidgee	Rice	16,760	13.2	Horticulture	19,576	6.8	Winter Cereals	46,675	2.8
SW Bundaberg	Sugar cane	ND	3.5	Macadamias	ND	3.5	Tomatoes	ND	ND
SW Burdekin-Haughton	Sugar Cane	ND	8.0	Small Crops	ND	ND	ND		
SW Dawson Valley	Cotton	6,000	5.0	Lucerne	ND	ND	Forage	ND	ND
SW Eton Water	Sugar Cane	14,500	3.0	ND			ND		
SW Mareeba-Dimbulah	Sugar Cane	9,600	8.0	Mangoes	3,700	4.0	Peanuts	1,000	7.0
SW Mary River	Sugar cane	ND	2.0	Tree crops	ND	2.0	ND		
SW Nogoia Mackenzie	Cotton	30,000	6.0	Citrus	4,000	6.0	Wine	2,000	3.0
SW St George	Cotton	8,700	6.5	Grape Vines	800	3.5	Vegetables	200	4.0
Central Irrigation	Grapes	9,617	8.0	Citrus	2,041	9.5	Stone fruit	562	9.1
First Mildura	Vines	6,404	7.5	Citrus	331	9.5	ND		
G-MW Murray Valley	Perennial pasture	ND	8.0	Annual pasture	ND	3.0	Cropping		
G-MW Shepparton	Perennial pasture	27,535	8.0	Annual pasture	18,819	2.0	Stone fruit	ND	3.0
G-MW Central Goulburn	Perennial pasture	72,000	9.0	Annual pasture	39,000	3.0	Stone fruit	2,200	6.0
G-MW Rochester	Perennial pasture	40,000	7.0	Annual pasture	5,000	3.0	Cropping	3,000	5.0
G-MW Pyramid-Boort	Annual pasture	ND	3.0	Perennial pasture	ND	3.0	Cropping		
G-MW Torrumbarry	Perennial pasture	0	8.0	Annual pasture	ND	3.0	Cropping		4.0
G-MW Swan Hill Pumped	Stone fruit	ND	6.0	Vines	ND	5.0	Pasture	ND	ND
SRW Bacchus Marsh	Vegetables	410	2.0	Orchard	251	2.0	Pasture	402	2.0
SRW Macalister	Permanent pasture	400	6.0	Annual pasture	19,000	3.0	Vegetables	400	3.0
SRW Werribee	Vegetables	2,384	3.3	Various	ND		Lucerne	34	ND
Wimmera-Mallee	Perennial pasture	ND		Lucerne	ND		ND		
Ord Irrigation	Cane	5,000	26.0	Trees	2,000	15.0	Horticulture	2,000	8.0
Harvey Water	Perennial pasture	6,418	8.0	Annual pasture	1,348	8.0	Grapes	ND	ND
Totals 2004/2005		276,015			132,985			66,615	
Business totals									
SunWater (Qld)	Sugar	ND	ND	Cotton	ND	ND	ND		
Goulburn Murray (Vic)	Perennial pasture	ND	8.0	Annual pasture	ND	3.0	ND		

Table 10 - Delivery Arrangements, Irrigation Season, Evaporation, and Rainfall - 2004/2005

System	Supply Method			Lift	Supply season				Rain & Evaporation, whole year			
	T1-23	T1-25	T1-24	T1-21	T1-30	T1-31	T1-32	T1-33	T1-35	T1-35	T1-35	T1-36
	Gravity (% area)	Pumped Low Pressure < 30 m (% area)	Pumped High Pressure > 30 m (% area)	Water Source to Natural Surface (m)	Irrigation Supply Season Start (dd/mm)	Irrigation Supply Season Duration (months)	Stock and Domestic Supply Start Date (dd/mm)	Stock and Domestic Supply Duration (months)	Rainfall Long Term Average (mm)	Evaporation Long Term Average (mm)	Rainfall minus Evaporation Long Term Average (mm)	Rainfall minus Evaporation 2004/2005 (mm)
Coleambally	100	0	0	0	25/08	9.0	1/11	ND	404	1,645	-1,241	-1,378
Murray Irrigation	100	0	0	0	15/08	9.0	NA	NA	367	1,950	-1,583	-1,650
Murrumbidgee	92	8	0	0	01/08	10.5	15/09	7.0	415	1,832	-1,417	-1,713
SW Bundaberg	20	ND	ND	ND	01/07	12.0	NA	NA	ND	1,783	ND	ND
SW Burdekin-Haughton	0	100	0	25	01/07	12.0	NA	NA	0	0	ND	ND
SW Dawson Valley	70	30	0	12	01/10	12.0	NA	NA	561	1,900	-1,339	ND
SW Eton Water	50	50	0	ND	01/07	12.0	NA	NA	0	0	ND	ND
SW Mareeba-Dimbulah	97	3	0	70	01/07	12.0	NA	NA	970	1,602	-632	ND
SW Mary River	80	20	0	ND	01/07	12.0	NA	NA	1,143	1,428	-285	ND
SW Nogoa Mackenzie	70	30	0	8	01/07	12.0	NA	NA	640	2,147	-1,507	ND
SW St George	90	10	0	5	01/07	12.0	NA	NA	483	1,915	-1,432	-1,716
Central Irrigation	0	70	30	39	01/07	12.0	01/07	12.0	220	1,825	-1,605	ND
First Mildura	75	25	0	10	01/07	12.0	NA	NA	250	2,153	-1,903	ND
G-MW Murray Valley	100	0	0	0	15/08	9.0	NA	NA	458	1,676	-1,218	-991
G-MW Shepparton	100	0	0	0	15/08	9.0	01/01	7.0	563	1,676	-1,113	-1,003
G-MW Central Goulburn	100	0	0	0	15/08	9.0	NA	NA	458	1,676	-1,218	-1,003
G-MW Rochester	95	5	0	5	15/08	9.0	NA	NA	458	1,676	-1,218	-1,074
G-MW Pyramid-Boort	100	0	0	0	15/08	9.0	15/08	9.0	372	1,527	-1,155	-1,062
G-MW Torrumbarry	100	0	0	0	15/08	9.0	NA	NA	372	1,527	-1,155	-1,062
G-MW Swan Hill Pumped	0	100	0	10	01/07	12.0	01/07	12.0	308	1,683	-1,375	-1,062
SRW Bacchus Marsh	100	0	0	0	01/07	12.0	NA	NA	500	1,390	-890	ND
SRW Macalister	100	0	0	0	15/08	9.0	15/08	9.0	2,370	1,170	1,200	ND
SRW Werribee	100	0	0	0	01/07	12.0	NA	NA	520	1,410	-890	ND
Wimmera-Mallee	100	0	0	0	01/10	7.0	15/05	6.0	450	1,913	-1,463	ND
Ord Irrigation	100	0	0	0	01/01	12.0	NA	NA	774	2,579	-1,805	-1,570
Harvey Water	100	0	0	0	01/10	7.0	NA	NA	990	1,825	-835	ND
Business totals												
SunWater (Qld)	ND	ND	0	ND	01/07	12.0	NA	NA	ND	ND	ND	ND
Goulburn Murray (Vic)	97	3	0	10	15/08	9.0	15/08	9.0	450	1,676	NA	NA

Table 11 - Overview of Surface Drainage - 2004/2005

System	T1-37	T1-38	T1-39	T1-40	T1-41	T1-42	T1-43
	Surface Drainage Provided	Area Serviced by Surface Drains (ha)	Portion of Irrigated Land Serviced by Surface Drains (%)	Area Not Drained but Requiring Surface Drainage (ha)	Number of Surface Drainage Customers	Type of Collection System for Surface Drains	Length of Collectors (drains and pipes) (km)
Coleambally	Y	95,000	100	100	349	Constructed	711
Murray Irrigation	Y	263,000	35	0	1,095	Constructed	1,250
Murrumbidgee	Y	208,696	43	0	2,602	Constructed & natural	1,599
SW Bundaberg		0	NA	ND	0	(No surface drains)	ND
SW Burdekin-Haughton	Y	26,660	58	ND	185	Constructed & natural	346
SW Dawson Valley	Y	2,027	27	ND	31	Constructed & natural	54
SW Eton Water		0	NA	ND	0	(No surface drains)	0
SW Mareeba-Dimbulah	Y	0	ND	ND	0	Constructed & natural	62
SW Mary River		0	NA	ND	0	(No surface drains)	0
SW Nogoia Mackenzie	Y	17,093	66	ND	56	Constructed & natural	146
SW St George	Y	8,809	55	ND	17	Constructed & natural	99
Central Irrigation		0	NA	ND	0	(No surface drains)	347
First Mildura		0	NA	ND	0	(No surface drains)	287
G-MW Murray Valley	Y	62,230	51	66,640	782	Constructed & natural *	487
G-MW Shepparton	Y	48,020	58	44,080	1,318	Constructed & natural *	445
G-MW Central Goulburn	Y	125,800	73	110,570	1,888	Constructed & natural *	897
G-MW Rochester	Y	41,680	36	20,220	849	Constructed & natural *	509
G-MW Pyramid-Boort	Y	37,296	20	ND	101	Constructed & natural	111
G-MW Torrumbarry	Y	61,446	35	ND	1,000	Constructed & natural	640
G-MW Swan Hill Pumped	Y	0	ND	ND	0	Constructed and other *	133
SRW Bacchus Marsh		0	NA	ND	0	(No surface drains)	0
SRW Macalister	Y	41,250	75	0	188	Constructed & natural	511
SRW Werribee	Y	3,000	50	0	238	Constructed	62
Wimmera-Mallee	Y	0	ND	0	1	Constructed	33
Ord Irrigation	Y	13,500	100	0	64	Constructed	160
Harvey Water	Y	112,000	100	ND	0	Constructed & natural	0
All available data							
Totals 2004/2005		1,167,507		241,610	10,764		8,889
Weighted average			47				
Business totals							
SunWater (Qld)	Y	55,889	20	ND	ND	Constructed & natural	740
Goulburn Murray (Vic)	Y	333,250	38	241,500	5,938	Constructed & natural *	3,222
Special notes *						Other surface drainage systems:	
Goulburn Murray (Vic)						Pipeline	

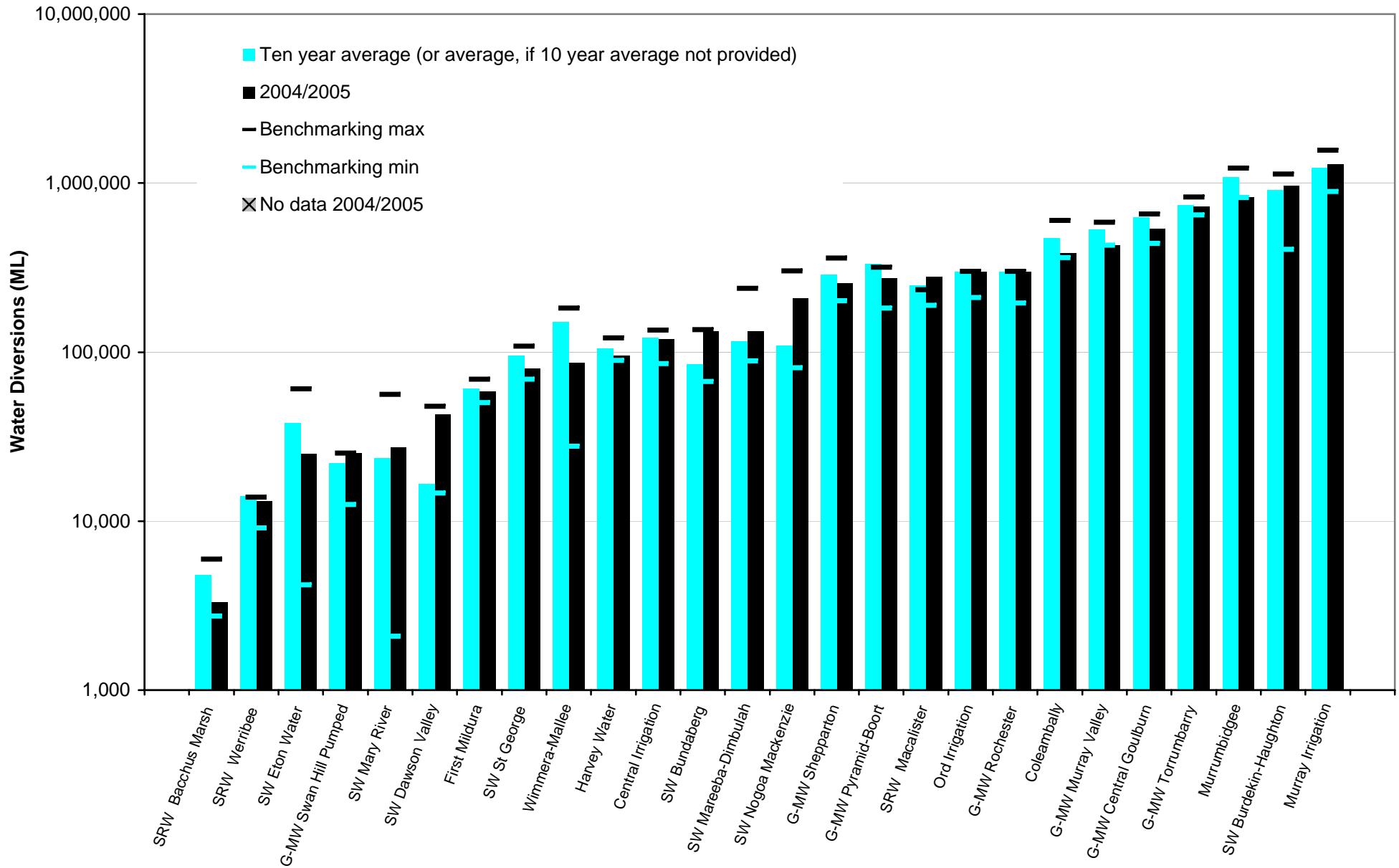
Table 12 - Overview of Sub-surface Drainage - 2004/2005

System	T1-47	T1-48	T1-49	T1-50	T1-51	T1-52
	Sub-surface Drainage Provided	Area Serviced by Sub-surface Drainage (ha)	Portion of Irrigated Land Serviced by Sub-surface Drains (%)	Area Not Drained but Requiring Sub-surface Drainage (ha)	Number of Sub-surface Drainage Customers	Type of on-farm sub-surface drainage collection system
Coleambally	Y	40	<1	1,400	1	Pumped bores
Murray Irrigation	Y	55,000	7	ND	134	Pipes, Pumped bores
Murrumbidgee	Y	10,000	2	ND	ND	Surface drains & Pipes, Pumped bores
SW Bundaberg		0	NA	ND	NA	(No subsurface drains)
SW Burdekin-Haughton		0	NA	ND	NA	(No subsurface drains)
SW Dawson Valley		0	NA	ND	NA	(No subsurface drains)
SW Eton Water		0	NA	ND	NA	(No subsurface drains)
SW Mareeba-Dimbulah		0	NA	ND	NA	(No subsurface drains)
SW Mary River		0	NA	ND	NA	(No subsurface drains)
SW Nogoia Mackenzie	Y	2,000	8	ND	12	Pipes
SW St George		0	NA	ND	NA	(No subsurface drains)
Central Irrigation	Y	8,908	59	ND	1,253	Pipes
First Mildura	Y	6,106	78	ND	1,234	Pipes
G-MW Murray Valley	Y	44,500	36	ND	195	Pumped bores
G-MW Shepparton	Y	2,649	3	ND	ND	Pumped bores
G-MW Central Goulburn	Y	22,643	13	ND	715	Pumped bores
G-MW Rochester	Y	4,344	4	ND	80	Surface drains & Pipes, Pumped bores
G-MW Pyramid-Boort	Y	500	<1	ND	ND	Surface drains & Pipes, Pumped bores
G-MW Torrumbarry	Y	1,300	1	ND	220	Surface drains
G-MW Swan Hill Pumped	Y	3,921	46	ND	585	Surface drains & Pipes
SRW Bacchus Marsh		0	NA	ND	NA	(No subsurface drains)
SRW Macalister	Y	0	0	ND	17	Pumped bores
SRW Werribee		0	NA	0	NA	(No subsurface drains)
Wimmera-Mallee		0	NA	0	NA	(No subsurface drains)
Ord Irrigation		0	NA	0	NA	(No subsurface drains)
Harvey Water		ND	ND	ND	ND	Surface drains & Pipes
Totals 2004/2005		161,911		1,400	4,446	
Weighted average			7			
<u>Business totals</u>						
SunWater (Qld)		ND	NA	ND	NA	(No subsurface drains)
Goulburn Murray (Vic)	Y	79,850	9	ND	3,275	Pipes, Pumped bores

Table 13 - Water Entitlements and Consumption - 2004/2005

System	T1-59	T1-60	T1-55	T1-56	T1-55A	T1-56A	T1-57	T1-58	T1-55B
	Irrigation Water Entitlement (ML/year)	Stock & Domestic Water Entitlement (ML/year)	Gross Diversions, Headworks to System for all purposes 2004/2005 (ML)	Gross Diversions, Headworks to System, ten year rolling average (ML)	Gross Diversions to Water Supply System for Irrigation Purposes 2004/2005 (ML)	Gross Diversions to Water Supply System for Irrigation Purposes, ten year rolling average (ML)	Stock & Domestic Water Deliveries to Irrigation District 2004/2005 (ML)	Stock & Domestic Water Deliveries to Waterworks District 2004/2005 (ML)	Bulk Water Delivered to Towns 2004/2005 (ML)
Coleambally	497,892	0	384,710	473,792	232,115	415,000	0	3,497	111
Murray Irrigation	1,479,000	0	1,284,693	1,230,268	834,784	ND	NA	NA	917
Murrumbidgee	1,187,803	2,181	826,207	1,082,812	638,815	858,020	4,517	2,160	12,971
SW Bundaberg	183,060	ND	132,181	84,481	113,765	ND	NA	NA	4,171
SW Burdekin-Haughton	608,482	ND	966,800	914,667	660,279	623,087	NA	NA	923
SW Dawson Valley	52,888	ND	42,989	16,526	42,989	40,041	NA	NA	1,116
SW Eton Water	51,257	ND	25,024	38,097	25,024	22,513	0	NA	191
SW Mareeba-Dimbulah	150,689	ND	133,000	116,000	98,000	1	NA	NA	4,213
SW Mary River	40,949	ND	27,156	23,691	18,831	ND	NA	NA	7,494
SW Nogo Mackenzie	167,195	ND	208,880	109,305	200,454	ND	NA	NA	7,128
SW St George	71,761	ND	79,815	94,720	78,091	78,091	NA	NA	1,725
Central Irrigation	160,346	755	118,902	121,484	115,892	97	1,512	0	236
First Mildura	82,097	2,016	58,297	61,000	58,297	6,100	NA	NA	ND
G-MW Murray Valley	259,368	14,289	428,759	529,163	428,759	ND	NA	NA	1,585
G-MW Shepparton	180,408	11,044	254,983	286,465	254,983	ND	10,855	0	187
G-MW Central Goulburn	434,113	21,547	534,857	625,937	513,310	ND	NA	NA	4,859
G-MW Rochester	219,915	11,912	300,345	297,791	300,345	297,791	NA	NA	1,443
G-MW Pyramid-Boort	220,763	10,901	273,354	332,027	222,133	ND	0	2,794	0
G-MW Torrumbarry	333,551	18,558	722,059	741,412	722,059	ND	NA	NA	0
G-MW Swan Hill Pumped	30,638	714	25,245	21,998	0	ND	0	0	ND
SRW Bacchus Marsh	3,661	0	3,304	4,788	3,304	4,788	NA	NA	0
SRW Macalister	117,874	7,000	278,700	246,100	278,700	246,100	NA	NA	0
SRW Werribee	13,825	0	13,100	14,000	13,100	14,000	NA	NA	0
Wimmera-Mallee	70,840	127,000	86,527	150,979	892	ND	98	25,116	10,380
Ord Irrigation	335,000	0	300,000	300,000	170,000	0	0	0	0
Harvey Water	108,736	0	95,540	104,829	95,000	104,000	NA	NA	ND
Totals	7,062,111	227,917	7,605,427	8,022,332	6,119,921	2,709,629	16,982	33,567	59,650
Business totals									
SunWater (Qld)	1,629,759	ND	1,778,339	ND	1,778,339	ND	NA	NA	55,244
Goulburn Murray (Vic)	2,292,640	89,338	ND	2,827,619	ND	ND	ND	ND	ND

Graph 13.G1 - Diversions from Headworks to System - All Systems - 2004/2005



Graph 13.G2 - Diversions from Headworks to System - Systems below 100,000 ML

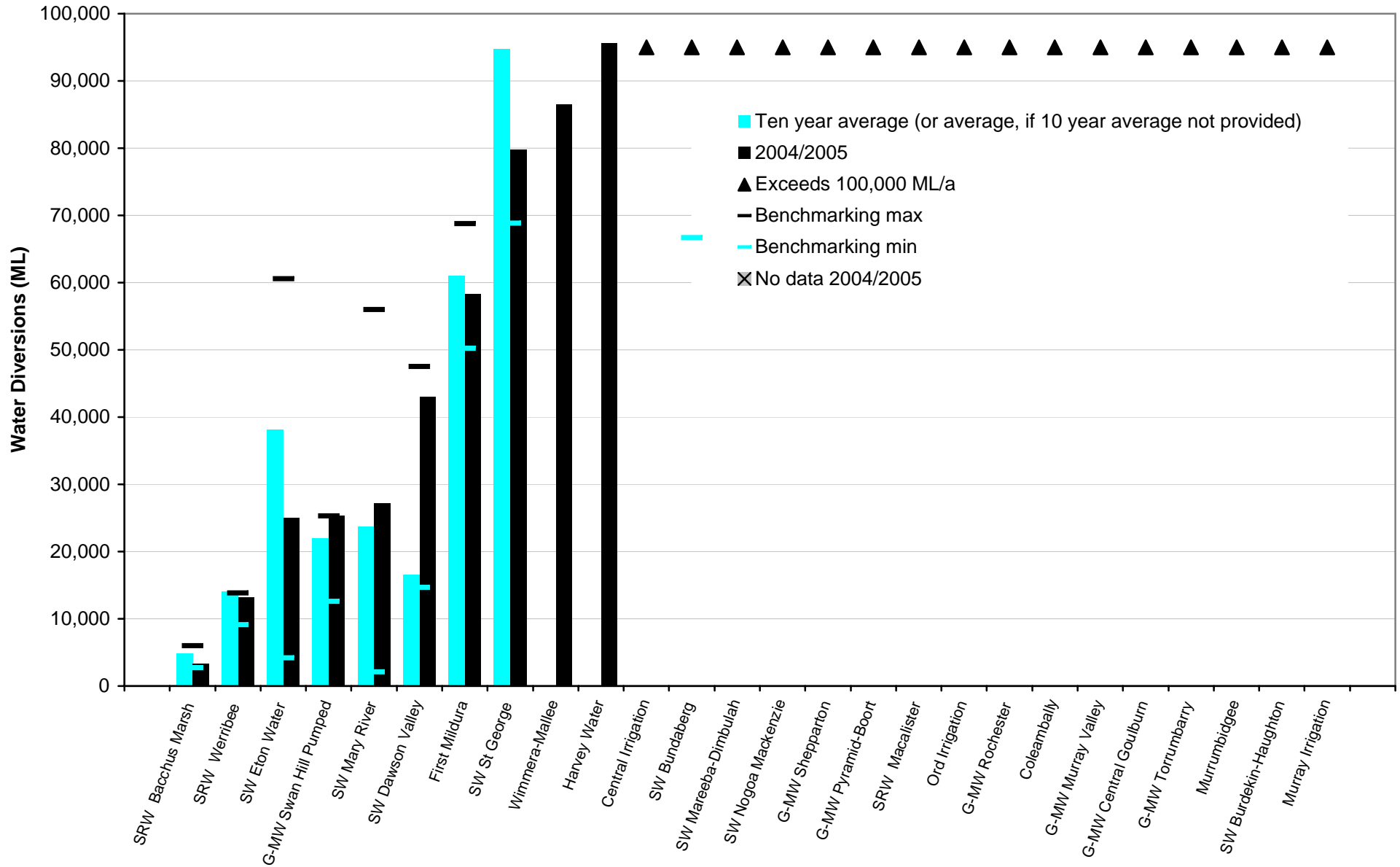


Table 14 - Drainage Tariff Structures - 2004/2005

System	Basis of Charge for Surface Drainage					Basis of Charge for Subsurface Drainage				
	T1-76	T1-76	T1-76	T1-76	T1-76	T1-76	T1-76	T1-76	T1-76	T1-76
	Service Component	Volume of Water Supplied to Land	Area of Land Serviced	Included in Charge for Irrigation Water	Other	Service Component	Volume of Water Supplied to Land	Area of Land Serviced	Included in Charge for Irrigation Water	Other
Coleambally				Y					Y	
Murray Irrigation	Y	Y				Y	Y			
Murrumbidgee	Y	Y		Y		Y	Y		Y	
SW Bundaberg										
SW Burdekin-Haughton			Y							
SW Dawson Valley			Y							
SW Eton Water										
SW Mareeba-Dimbulah										
SW Mary River										
SW Nogoia Mackenzie			Y							
SW St George			Y							
Central Irrigation									Y	
First Mildura							Y			
G-MW Murray Valley	Y	Y	Y			Y	Y	Y		Y
G-MW Shepparton	Y	Y	Y			Y	Y	Y		
G-MW Central Goulburn	Y	Y	Y			Y	Y	Y		Y
G-MW Rochester	Y	Y	Y			Y	Y	Y		Y
G-MW Pyramid-Boort	Y	Y	Y			Y	Y	Y		
G-MW Torrumbarry	Y	Y	Y			Y	Y	Y		
G-MW Swan Hill Pumped	Y	Y	Y	Y		Y	Y	Y	Y	
SRW Bacchus Marsh										
SRW Macalister				Y					Y	
SRW Werribee		Y	Y							
Wimmera-Mallee	Y	Y		Y						
Ord Irrigation										
Harvey Water										

Table 15 - Infrastructure Management Processes - 2004/2005

System	<div style="display: flex; justify-content: space-between; text-align: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Maintenance records determine replacement priorities</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Individual asset identification system</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Remaining life profile calculated for each asset</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Profiles based on assessed individual asset condition</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Risk assessment undertaken for assets (like AS4360)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Long term system replacement master plan</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Separate asset renewal account used</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Remaining life profile determines renewals contribution</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Renewals contribution adequate in longer term</div> </div>									
	T1-77	T1-77	T1-77	T1-77	T1-77	T1-77	T1-77	T1-77	T1-77	T1-77
Coleambally	N	Y	Y	N	N	Y	Y	Y	Y	Y
Murray Irrigation	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Murrumbidgee	N	Y	Y	N	N	N	N	Y	N	N
SW Bundaberg	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SW Burdekin-Haughton	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SW Dawson Valley	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SW Eton Water	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SW Mareeba-Dimbulah	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SW Mary River	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SW Nogo Mackenzie	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
SW St George	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Central Irrigation	N	Y	Y	N	N	Y	Y	Y	Y	Y
First Mildura	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
G-MW Murray Valley	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
G-MW Shepparton	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
G-MW Central Goulburn	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
G-MW Rochester	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
G-MW Pyramid-Boort	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
G-MW Torrumbarry	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
G-MW Swan Hill Pumped	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
SRW Bacchus Marsh	N	Y	Y	Y	Y	N	N	Y	Y	Y
SRW Macalister	N	Y	Y	Y	Y	N	N	Y	Y	Y
SRW Werribee	N	Y	Y	Y	Y	N	N	Y	Y	Y
Wimmera-Mallee	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
Ord Irrigation	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
Harvey Water	N	Y	Y	N	Y	Y	Y	Y	Y	Y
Statistical analysis										
Positive responses	19	26	26	22	14	22	22	26	25	25
Negative responses	7	0	0	4	12	4	4	0	1	1
Total responses	26	26	26	26	26	26	26	26	26	26
% of responses positive	73%	100%	100%	85%	54%	85%	85%	100%	96%	96%
% of 26 systems positive	73%	100%	100%	85%	54%	85%	85%	100%	96%	96%

Table 16 - Asset Age and Remaining Life - 2004/2005

System	Irrigation 2004/2005			Stock & Domestic 2004/2005		
	T1-79	T1-79	T1-79	T1-79	T1-79	T1-79
	Average Age (years)	Life Expectancy at New (years)	Average Remaining Life (years)	Average age (years)	Life Expectancy at New (years)	Average Remaining Life (years)
Coleambally	38	86	48	40	92	52
Murray Irrigation	60	85	25	NA	NA	NA
Murrumbidgee	45	60	14	70	78	6
SW Bundaberg	20	80	60	NA	NA	NA
SW Burdekin-Haughton	22	81	59	NA	NA	NA
SW Dawson Valley	43	102	59	NA	NA	NA
SW Eton Water	26	81	55	NA	NA	NA
SW Mareeba-Dimbulah	41	90	49	NA	NA	NA
SW Mary River	21	77	56	NA	NA	NA
SW Nogoa Mackenzie	28	113	85	NA	NA	NA
SW St George	51	76	25	NA	NA	NA
Central Irrigation	16	88	72	ND	ND	ND
First Mildura	66	100	24	NA	NA	NA
G-MW Murray Valley	52	97	47	NA	NA	NA
G-MW Shepparton	51	105	56	52	95	43
G-MW Central Goulburn	46	99	52	NA	NA	NA
G-MW Rochester	57	117	60	NA	NA	NA
G-MW Pyramid-Boort	61	128	67	43	98	56
G-MW Torrumbarry	55	111	56	NA	NA	NA
G-MW Swan Hill Pumped	24	75	52	ND	ND	ND
SRW Bacchus Marsh	60	100	40	NA	NA	NA
SRW Macalister	60	100	40	ND	ND	ND
SRW Werribee	50	80	30	NA	NA	NA
Wimmera-Mallee	51	86	35	53	99	46
Ord Irrigation	40	80	40	NA	NA	NA
Harvey Water	48	93	45	NA	NA	NA
Average	44	91	48	52	92	41
Business totals						
SunWater (Qld)	ND	ND	ND	NA	NA	NA
Goulburn Murray (Vic)	53	108	56	44	97	54

Graph 16.G1 - Average Remaining Life of Assets

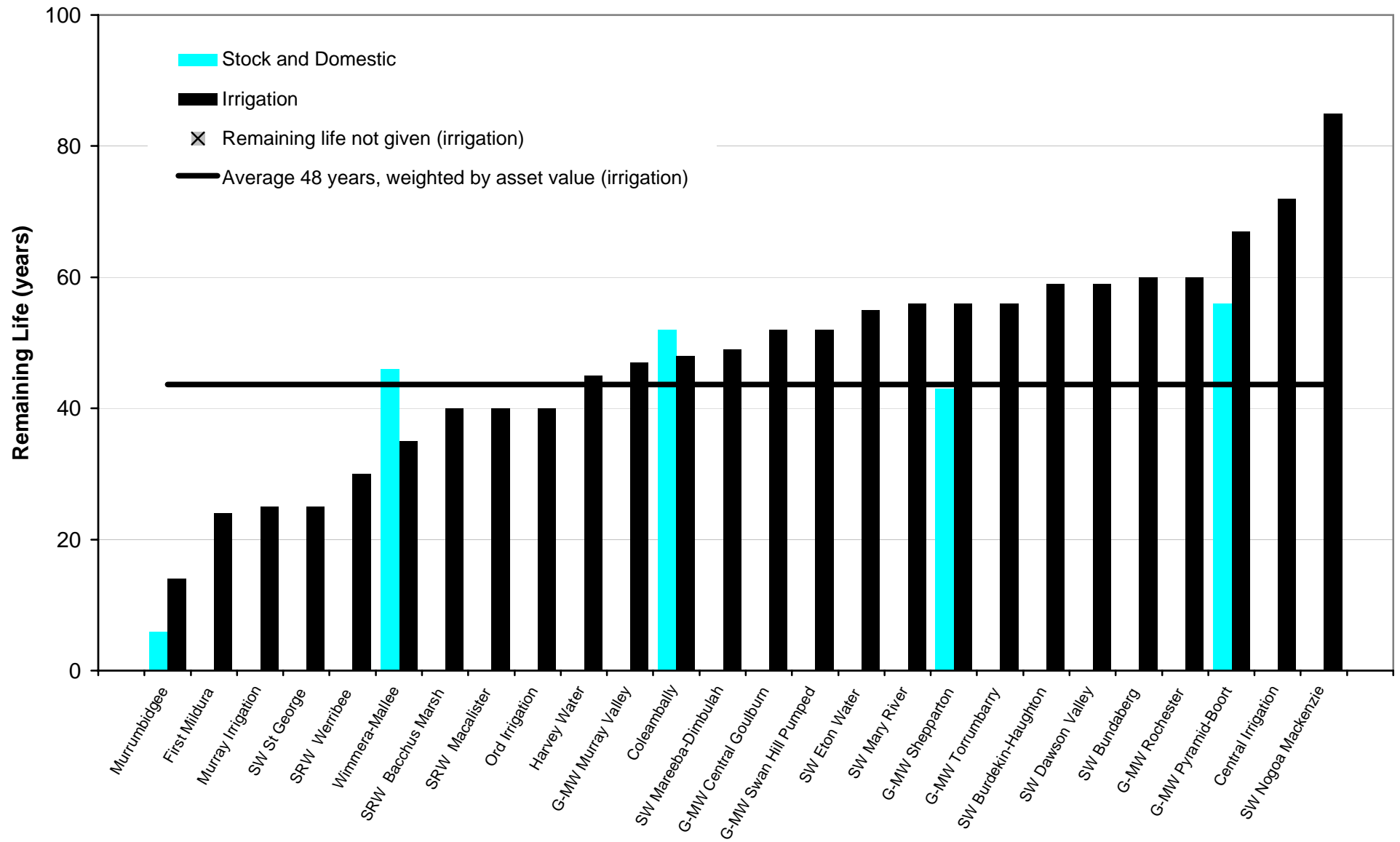


Table 17 - Number of Irrigation Supply Points - 2004/2005

System	T1-80	T1-81	T1-82	T1-84	T1-87	T1-85	T1-83
	Surface Water System - Number of Individual Supply Points to Irrigation Customers (No.)	Number of Individual Supply Points to Irrigation Customers for which Water Must be Ordered (No.)	Groundwater Supplies - Number of Individual Supply Points to Irrigation Customers (No.)	Drainage Systems - Number of Individual Supply Points to Irrigation Customers (No.)	Number of Customer Irrigation Supply Points (No.)	Number of Supply Points to Stock and Domestic Supplies, from a Dedicated Stock & Domestic Channel or Pipe (No.)	Number of supply points to Stock and Domestic (including garden) supplies, where there is irrigation from the same channel or pipe, but no irrigation from the same supply point. (No.)
Coleambally	760	700	ND	28	788	0	200
Murray Irrigation	3,873	3,773	0	0	3,873	0	1,032
Murrumbidgee	4,028	4,028	ND	26	4,054	636	ND
SW Bundaberg	1,795	ND	0	ND	1,795	NA	ND
SW Burdekin-Haughton	1,140	1,140	128	ND	1,268	NA	0
SW Dawson Valley	366	366	ND	ND	366	NA	ND
SW Eton Water	635	635	ND	ND	635	NA	ND
SW Mareeba-Dimbulah	1,954	1,954	ND	ND	1,954	NA	ND
SW Mary River	578	ND	ND	ND	578	NA	ND
SW Nogoia Mackenzie	538	457	ND	ND	538	NA	ND
SW St George	390	390	ND	ND	390	NA	ND
Central Irrigation	2,275	2,275	0	0	2,275	0	2,804
First Mildura	1,206	1,206	0	0	1,206	NA	1,008
G-MW Murray Valley	3,156	3,156	ND	70	3,226	NA	ND
G-MW Shepparton	2,542	2,542	ND	136	2,678	ND	1,614
G-MW Central Goulburn	5,576	5,438	ND	375	5,951	NA	2,588
G-MW Rochester	2,493	2,493	0	148	2,641	NA	1,967
G-MW Pyramid-Boort	2,293	2,293	ND	ND	2,293	ND	ND
G-MW Torrumbarry	4,519	4,519	ND	ND	4,519	NA	ND
G-MW Swan Hill Pumped	792	792	ND	ND	792	ND	ND
SRW Bacchus Marsh	175	175	0	0	175	NA	0
SRW Macalister	2,200	2,200	ND	208	2,408	ND	ND
SRW Werribee	391	391	ND	12	403	NA	0
Wimmera-Mallee	243	ND	ND	ND	243	ND	ND
Ord Irrigation	139	139	0	0	139	NA	0
Harvey Water	1,315	1,315	0	0	1,315	NA	ND
Totals 2004/2005	45,372	42,377	128	1,003	46,503	636	11,213
Business totals							
SunWater (Qld)	11,197	ND	ND	ND	11,197	NA	ND
Goulburn Murray (Vic)	21,371	21,233	ND	ND	21,371	ND	ND

**Tier 2 Benchmarking
Performance Indicators**

Table 18 - Is Land Use Appropriate? - 2004/2005

	E1: Sustainability of Irrigation in the Local Landscape								
	Land and Water Resource Management Requirements in Business Operation				Sustainable Irrigation Management Practices			Land Use Licences	
	T2-E.1	T2-E.2	T2-E.3	T2-E.3A	T2-E.4	T2-E.5	T2-E.6	T2-E.7	T2-E.8
	Business Operates to a Land & Water Management Plan	Business has Environmental Management System	ISO 14001 % Progress Towards Certification - Business	ISO 14001 % Progress Towards Certification - Whole Irrigation Area	Proportion of Farms with Whole Farm Plan	Proportion of Farms Recycling Water	Proportion of Water Supplied Recycled	Proportion of Farms with Site Use Licences	Proportion of Irrigated Area Covered by Site Use Licences
System			(% progress)	(% progress)	(%)	(%)	(%)	(%)	(%)
Coleambally	Y	Y	50	5	16	13	3	100	100
Murray Irrigation	Y	Y	0	0	32	ND	ND	0	0
Murrumbidgee	Y	Y	0	NA	37	30	16	ND	ND
SW Bundaberg	N	Y	100	50	ND	ND	ND	100	0
SW Burdekin-Haughton	N	Y	100	100	ND	ND	ND	100	ND
SW Dawson Valley	N	Y	100	ND	ND	10	ND	100	ND
SW Eton Water	N	Y	100	50	ND	ND	ND	100	ND
SW Mareeba-Dimbulah	N	Y	100	100	ND	ND	6	100	ND
SW Mary River	N	Y	100	ND	ND	ND	ND	100	ND
SW Nogoia Mackenzie	N	Y	100	100	ND	80	19	100	ND
SW St George	N	Y	100	100	ND	100	2	100	ND
Central Irrigation	N	Y	NA	NA	20	ND	ND	0	0
First Mildura	N	Y	NA	NA	ND	ND	ND	ND	ND
G-MW Murray Valley	Y	Y	NA	NA	64	ND	ND	0	0
G-MW Shepparton	Y	Y	NA	NA	ND	55	ND	ND	ND
G-MW Central Goulburn	Y	Y	NA	NA	ND	35	5	ND	ND
G-MW Rochester	Y	Y	NA	NA	ND	60	5	0	0
G-MW Pyramid-Boort	Y	Y	NA	NA	ND	ND	ND	0	0
G-MW Torrumbarry	Y	Y	NA	NA	ND	20	ND	ND	ND
G-MW Swan Hill Pumped	Y	Y	NA	NA	ND	ND	ND	0	0
SRW Bacchus Marsh	N	Y	NA	NA	ND	ND	ND	0	0
SRW Macalister	N	Y	NA	NA	50	ND	ND	ND	ND
SRW Werribee	N	Y	NA	NA	ND	ND	ND	ND	ND
Wimmera-Mallee	Y	Y	NA	NA	ND	ND	ND	ND	ND
Ord Irrigation	Y	Y	NA	NA	0	1	ND	0	100
Harvey Water	N	N	NA	NA	ND	ND	ND	0	0
Statistical analysis									
Positive responses	12	25	9	7	6	10	7	9	2
Negative responses	14	1	0	0	0	1	0	0	0
Total responses	26	26	9	7	6	11	7	9	2
% of responses positive	46%	96%	100%	100%	100%	91%	100%	100%	100%
% of 26 systems positive	46%	96%	35%	27%	23%	38%	27%	35%	8%
SunWater (Qld)	N	Y	100	ND	ND	ND	ND	ND	ND
Goulburn Murray (Vic)	ND	Y	NA	NA	ND	ND	ND	ND	ND

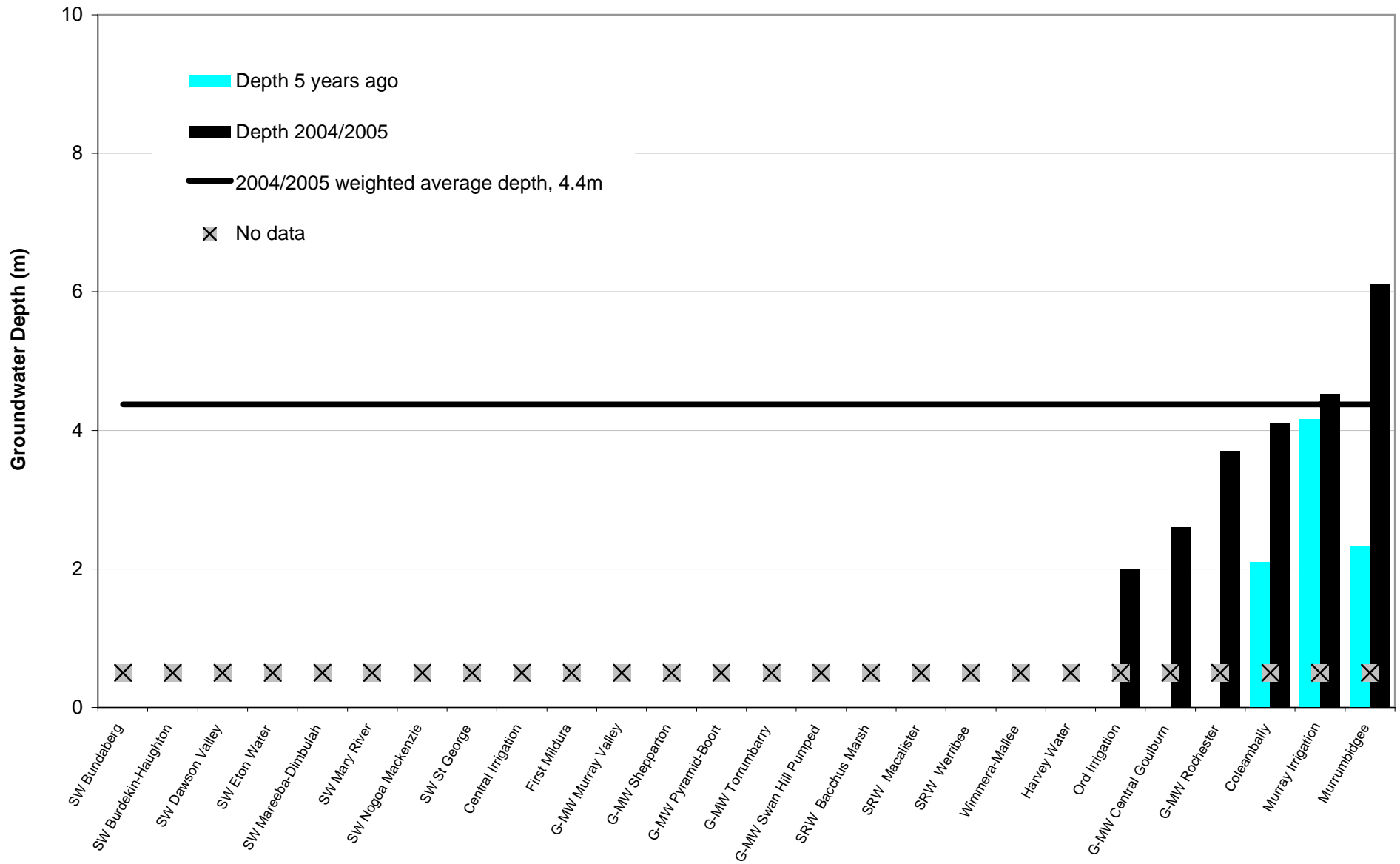
* Coleambally was previously 100% ISO 14001 accredited but this lapsed due to the drought.

Table 19 - Groundwater Depth Below Surface in Summer - 2004/2005

System	E1: Sustainability of Irrigation in the Local Landscape													
	Management of the Hydrologic Cycle													
	Groundwater Monitoring		Indicative Change in Average Depth to Watertable in Summer (Rising watertable shown as positive change)			Irrigation Area with Watertable Less Than 2 m Depth in Summer (Portion of <u>total area</u> in irrigation scheme, and area affected)			Proportion of Irrigated Area Needing Drainage Which is Drained					
	T1-71	T1-71	T2-E.10	T2-E.10	T2-E.10	T2-E.9	T2-E.9 & T1-53	T2-E.9	Surface Drainage			Sub-surface Drainage		
	GW Monitoring Bores	GW Data Density (Based on Area Irrigated) *	Indicative Depth 5 Years Ago	Indicative Average Depth 2005	Indicative Change in 5 Years	Portion 5 Years Ago	Portion 2005	Area Affected 2005	Area Drained	Need More Drainage	Drainage Needs Met	Area Drained	Need More Drainage	Drainage Needs Met
(No)	(ha/bore)	(m)	(m)	(m)	(%)	(%)	(ha)	(ha)	(ha)	(%)	(ha)	(ha)	(%)	
Coleambally	727	94	2.1	4.1	-2.0	39	1	685	95,000	100	100	40	1,400	3
Murray Irrigation	1,500	127	4.2	4.5	-0.4	5	1	1,900	263,000	0	100	55,000	ND	ND
Murrumbidgee	876	143	2.3	6.1	-3.8	52	10	12,514	208,696	0	100	10,000	ND	ND
SW Bundaberg	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	0	ND	ND
SW Burdekin-Haughton	30	ND	ND	ND	ND	0	ND	ND	26,660	ND	ND	0	ND	ND
SW Dawson Valley	0	NA	ND	ND	ND	ND	ND	ND	2,027	ND	ND	0	ND	ND
SW Eton Water	0	NA	ND	ND	ND	ND	ND	ND	0	ND	ND	0	ND	ND
SW Mareeba-Dimbulah	0	NA	ND	ND	ND	ND	ND	ND	0	ND	ND	0	ND	ND
SW Mary River	0	NA	ND	ND	ND	ND	ND	ND	0	ND	ND	0	ND	ND
SW Nogoia Mackenzie	0	NA	ND	ND	ND	ND	ND	ND	17,093	ND	ND	2,000	ND	ND
SW St George	0	NA	ND	ND	ND	0	ND	ND	8,809	ND	ND	0	ND	ND
Central Irrigation	135	100	3.0	ND	ND	60	ND	ND	0	ND	ND	8,908	ND	ND
First Mildura	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	6,106	ND	ND
G-MW Murray Valley	294	216	ND	ND	ND	13	2	1,267	62,230	66,640	48	44,500	ND	ND
G-MW Shepparton	277	159	ND	ND	ND	2	2	880	48,020	44,080	52	2,649	ND	ND
G-MW Central Goulburn	902	105	ND	2.6	ND	61	25	23,621	125,800	110,570	53	22,643	ND	ND
G-MW Rochester	257	182	ND	3.7	ND	32	13	6,087	41,680	20,220	67	4,344	ND	ND
G-MW Pyramid-Boort	210	414	ND	ND	ND	90	ND	ND	37,296	ND	ND	500	ND	ND
G-MW Torrumbarry	539	155	1.8	ND	ND	60	ND	ND	61,446	ND	ND	1,300	ND	ND
G-MW Swan Hill Pumped	115	43	ND	ND	ND	15	ND	ND	0	ND	ND	3,921	ND	ND
SRW Bacchus Marsh	0	NA	ND	ND	ND	ND	ND	ND	0	ND	ND	0	ND	ND
SRW Macalister	311	116	0.0	ND	ND	0	ND	ND	41,250	0	100	0	ND	ND
SRW Werribee	25	240	ND	ND	ND	ND	0	0	3,000	0	100	0	0	ND
Wimmera-Mallee	64	ND	35.3	ND	ND	0	ND	ND	0	0	ND	0	0	ND
Ord Irrigation	69	196	ND	2.0	ND	35	ND	ND	13,500	0	100	0	0	ND
Harvey Water	0	NA	ND	ND	ND	ND	ND	ND	112,000	ND	ND	ND	ND	ND
Total	6,331							46,954	1,167,507	241,610		161,911	1,400	
Weighted average (all available data)		141	2.9	4.4	-1.4	68	9							
Weighted average (common data set)			3.2	5.0	-1.8	48	12							
Business totals														
SunWater (Qld)	0	NA	ND	ND	ND	ND	ND	ND	55,889	ND	ND	ND	ND	ND
Goulburn Murray (Vic)	2,612	332	1.8	ND	ND	45	ND	ND	333,250	241,500	58	79,850	ND	ND

* GW Data Density was previously based on Area in System

Graph 19.G1 - Average Depth to Watertable in Summer



Graph 19.G2 - Percentage of Irrigated Area with Depth to Groundwater less than 2 m in Summer

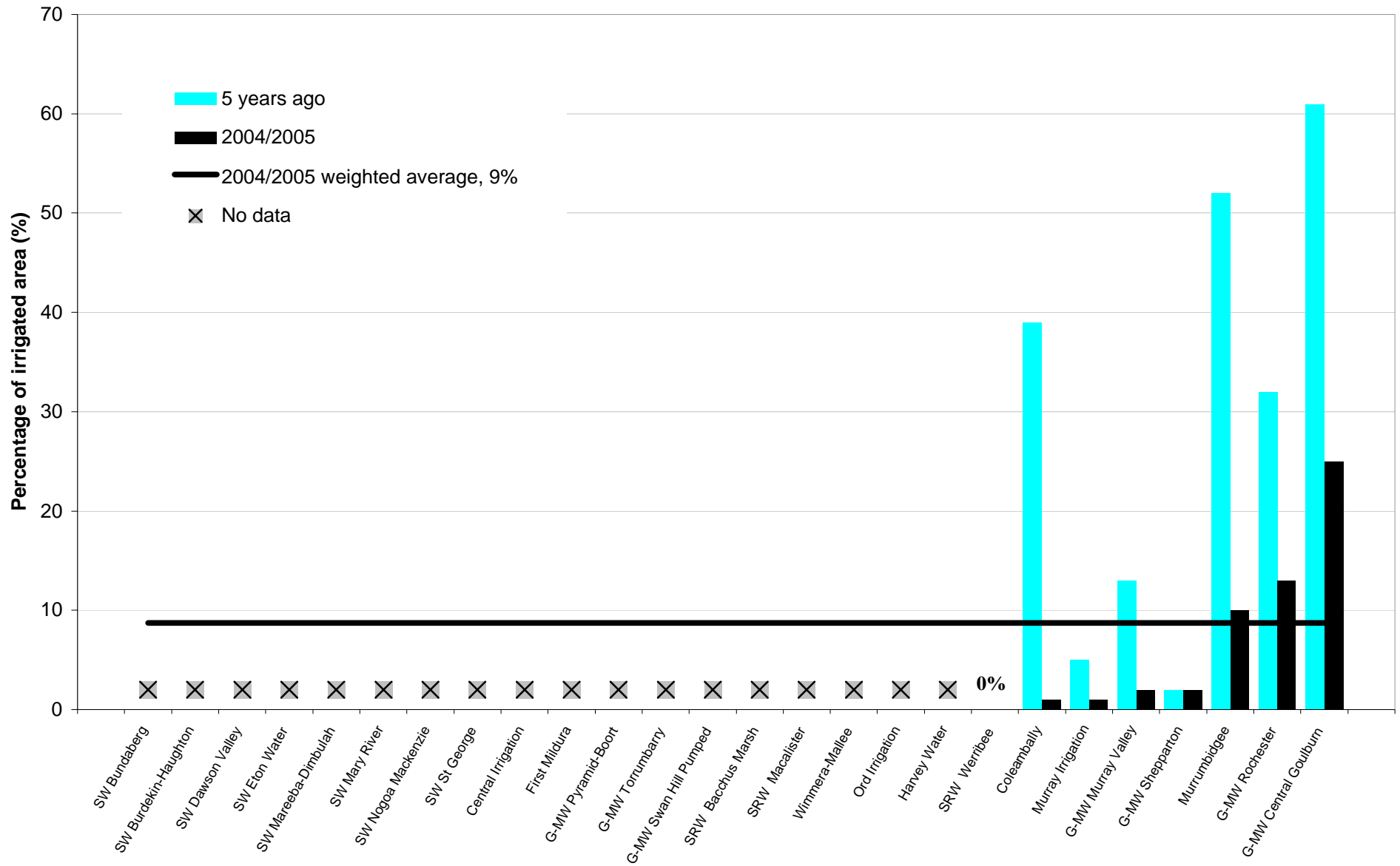


Table 20 - Metering of Irrigation Supply Points - Part 1, Proportion of Supply Points - 2004/2005

System	E2: Water Accounting														
	E2.1: Metering of Water Supplied - Proportions										Metering of Water Outfalled				
	T2-E.12	T2-E.13		T2-E.13B		T2-E.13D		T2-E.14		T2-E.14A		T1-44	T1-45	T2-E.15	
	Proportion of Water Delivered that is Metered	Surface Water Irrigation Supply, Proportion of Supply Points Metered		Groundwater Irrigation Supply, Proportion of Supply Points Metered		Stock and Domestic Supply Points (which are on works which are also Irrigation Supply Points): Portion Metered		Stock and Domestic Supply Points (which are not also Irrigation Supply Points): Portion Metered		Drainage Irrigation Supply (Drainage Diverters), Proportion of Supply Points Metered		Portion of Drained Area Monitored for Flow	Proportion of Total Drainage Flow Monitored at its Outfall	Portion of Outfall Structures Metered	
2004/2005 (%)	2003/2004 (%)	2004/2005 (%)	2003/2004 (%)	2004/2005 (%)	2003/2004 (%)	2004/2005 (%)	2003/2004 (%)	2004/2005 (%)	2003/2004 (%)	2004/2005 (%)	2003/2004 (%)	2004/2005 (%)	2004/2005 (% of area)	2004/2005 (% of total)	2004/2005 (%)
Coleambally	94	99	99	100	100	ND	20	5	5	ND	90	100	100	100	
Murray Irrigation	99	100	100	0	0	ND	0	0	0	ND	0	100	100	100	
Murrumbidgee	98	99	86	0	0	ND	0	10	10	ND	99	100	100	100	
SW Bundaberg	99	100	99	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW Burdekin-Haughton	99	100	100	100	100	ND	ND	ND	ND	ND	0	0	0	0	
SW Dawson Valley	99	99	73	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW Eton Water	99	100	100	0	0	ND	27	100	73	ND	0	ND	ND	ND	
SW Mareeba-Dimbulah	98	99	98	0	0	ND	10	0	0	ND	ND	ND	ND	ND	
SW Mary River	99	100	100	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW Nogo Mackenzie	99	100	92	0	0	ND	3	0	10	ND	ND	ND	ND	ND	
SW St George	99	100	100	0	0	ND	ND	0	0	ND	ND	ND	ND	ND	
Central Irrigation	100	100	100	0	0	ND	100	100	100	ND	0	75	75	ND	
First Mildura	95	100	100	0	0	ND	90	40	40	ND	ND	ND	ND	ND	
G-MW Murray Valley	98	95	97	75	0	ND	1	0	0	ND	ND	79	ND	31	
G-MW Shepparton	95	92	93	60	0	ND	2	12	12	ND	83	83	83	19	
G-MW Central Goulburn	94	92	93	92	0	ND	1	100	100	ND	15	98	ND	58	
G-MW Rochester	95	92	93	78	0	ND	1	100	100	ND	85	90	90	36	
G-MW Pyramid-Boort	95	95	98	0	0	ND	ND	100	100	ND	ND	ND	ND	ND	
G-MW Torrumbarry	99	98	91	0	0	ND	ND	0	0	ND	ND	ND	ND	ND	
G-MW Swan Hill Pumped	97	98	88	0	0	ND	ND	0	0	ND	ND	ND	ND	ND	
SRW Bacchus Marsh	99	99	99	0	0	ND	ND	0	0	ND	ND	ND	ND	ND	
SRW Macalister	95	90	90	25	25	ND	ND	0	0	ND	50	ND	ND	ND	
SRW Werribee	100	100	100	2	0	ND	0	0	0	ND	90	20	20	20	
Wimmera-Mallee	6	90	90	90	0	ND	ND	0	0	ND	ND	ND	ND	ND	
Ord Irrigation	100	100	100	0	0	ND	0	0	0	ND	0	ND	8	3	
Harvey Water	100	100	100	0	0	ND	ND	30	30	ND	ND	ND	ND	ND	
Weighted average Average	97	97	95	89	ND	ND	28	80	80	ND	67	75	64	47	
Business totals															
SunWater (Qld)	99	100	100	100	100	ND	ND	50	50	ND	ND	ND	ND	ND	
Goulburn Murray (Vic)	96	92	94	29	29	ND	ND	0	0	ND	ND	ND	ND	ND	

Graph 20.G1 - Metering of Irrigation Water Supply

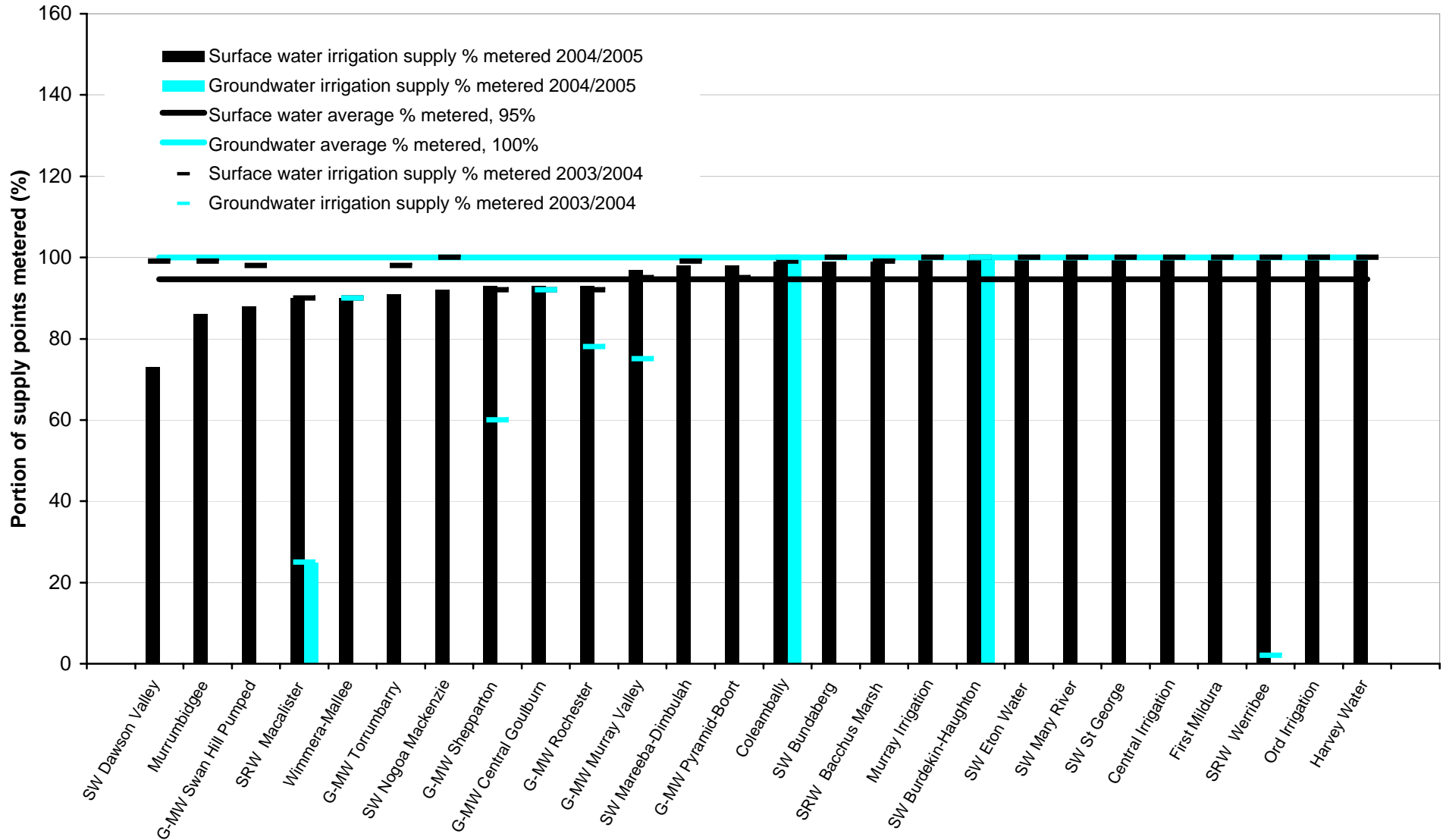


Table 21 - Metering of Supply Points - Part 2, Number of Supply Points - 2004/2005

System	E2: Water Accounting									
	E2.1: Metering of Water Supplied - Number									
	T1-80	T2-E.13	T1-82	T2-E.13B	T1-83	T2-E.13D	T1-85	T2-E.14	T1-84	T2-E.14A
	Surface Water Irrigation Supplies		Groundwater Irrigation Supplies		Stock and Domestic Supplies (From Irrigation Supply Systems)		Dedicated Stock and Domestic		Drainage Systems	
	Number of Individual Supply Points to Irrigation Customers (No.)	Proportion of Individual Supply Points to Irrigation Customers Metered (%)	Number of Individual Supply Points to Irrigation Customers (No.)	Proportion of Individual Supply Points to Irrigation Customers Metered (%)	Number of Stock & Domestic Outlets to Irrigation Customers (No.)	Proportion of S & D Outlets to Irrigation Customers Metered (%)	Number of Individual Supply Points to Stock & Domestic Customers (No.)	Proportion of Individual Supply Points to Stock & Domestic Customers Metered (%)	Number of Individual Supply Points to Irrigation Customers (No.)	Proportion of Individual Supply Points to Irrigation Customers Metered (%)
Coleambally	760	99	ND	100	200	20	0	5	28	90
Murray Irrigation	3,873	100	0	0	1,032	0	0	0	0	0
Murrumbidgee	4,028	86	0	0	ND	0	636	10	26	99
SW Bundaberg	1,795	99	0	0	ND	ND	NA	NA	ND	ND
SW Burdekin-Haughton	1,140	100	128	100	0	ND	NA	NA	ND	0
SW Dawson Valley	366	73	0	0	ND	ND	NA	NA	ND	ND
SW Eton Water	635	100	0	0	ND	27	NA	NA	ND	0
SW Mareeba-Dimbulah	1,954	98	0	0	ND	10	NA	NA	ND	ND
SW Mary River	578	100	0	0	ND	ND	NA	NA	ND	ND
SW Nogo Mackenzie	538	92	0	0	ND	3	NA	NA	ND	ND
SW St George	390	100	0	0	ND	ND	NA	NA	ND	ND
Central Irrigation	2,275	100	0	0	2,804	100	0	100	0	0
First Mildura	1,206	100	0	0	1,008	90	NA	NA	0	ND
G-MW Murray Valley	3,156	97	0	0	ND	1	NA	NA	70	ND
G-MW Shepparton	2,542	93	0	0	1,614	2	ND	12	136	83
G-MW Central Goulburn	5,576	93	0	0	2,588	1	NA	NA	375	15
G-MW Rochester	2,493	93	0	0	1,967	1	NA	NA	148	85
G-MW Pyramid-Boort	2,293	98	0	0	ND	ND	ND	100	ND	ND
G-MW Torrumbarry	4,519	91	0	0	ND	ND	NA	NA	ND	ND
G-MW Swan Hill Pumped	792	88	0	0	ND	ND	ND	0	ND	ND
SRW Bacchus Marsh	175	99	0	0	0	ND	NA	NA	0	ND
SRW Macalister	2,200	90	ND	25	ND	ND	ND	0	208	50
SRW Werribee	391	100	0	0	0	0	NA	NA	12	90
Wimmera-Mallee	243	90	0	0	ND	ND	ND	0	ND	ND
Ord Irrigation	139	100	0	0	0	0	NA	NA	0	0
Harvey Water	1,315	100	0	0	ND	ND	NA	NA	0	ND
Total	45,372		128		11,213		636		1,003	
Weighted average		95		ND		38		10		49
Business totals										
SunWater (Qld)	11,197	100	ND	100	ND	ND	NA	50	ND	ND
Goulburn Murray (Vic)	21,371	94	ND	29	ND	ND	ND		ND	ND

Table 22 - Metering of Supply Points - Part 3, Type of Meters - 2004/2005

E2: Water Accounting																
E2.1: Metering of Water Supplied																
System	Surface Water System								Groundwater							
	T1-80	T2-E.13	T2-E.13A	T2-E.13A	T2-E.13A	T2-E.13A	T2-E.13A	T2-E.13A	T1-82	T2-E.13B	T2-E.13C	T2-E.13C	T2-E.13C	T2-E.13C	T2-E.13C	T2-E.13C
	Number of Individual Supply Points to Irrigation Customers	Proportion of Individual Supply Points to Irrigation Customers Metered	Type of Meter						Number of Individual Supply Points to Irrigation Customers	Proportion of Individual Supply Points to Irrigation Customers Metered	Type of Meter					
			Dethridge	MagFlow™	Ultrasonic	Mechanical	FlumeGate™	Other Meter Type			Dethridge	MagFlow™	Ultrasonic	Mechanical	FlumeGate™	Other Meter Type
(No.)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(No.)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Coleambally	760	99	56	2	7	17	18	0	ND	100	ND	ND	ND	ND	ND	ND
Murray Irrigation	3,873	100	97	1	0	1	0	0	0	0	ND	ND	ND	ND	ND	ND
Murrumbidgee	4,028	86	61	10	27	ND	ND	3	0	0	ND	ND	ND	ND	ND	ND
SW Bundaberg	1,795	99	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND
SW Burdekin-Haughton	1,140	100	ND	ND	ND	ND	ND	ND	128	100	ND	ND	ND	ND	ND	ND
SW Dawson Valley	366	73	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND
SW Eton Water	635	100	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND
SW Mareeba-Dimbulah	1,954	98	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND
SW Mary River	578	100	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND
SW Nogoia Mackenzie	538	92	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND
SW St George	390	100	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND
Central Irrigation	2,275	100	0	42	0	58	0	0	0	0	ND	ND	ND	ND	ND	ND
First Mildura	1,206	100	ND	ND	ND	100	ND	ND	0	0	ND	ND	ND	ND	ND	ND
G-MW Murray Valley	3,156	97	89	0	0	10	0	0	0	0	ND	ND	ND	ND	ND	ND
G-MW Shepparton	2,542	93	90	0	1	8	0	1	0	0	ND	ND	ND	ND	ND	ND
G-MW Central Goulburn	5,576	93	94	1	0	2	3	0	0	0	ND	ND	ND	ND	ND	ND
G-MW Rochester	2,493	93	96	1	1	2	0	0	0	0	ND	ND	ND	ND	ND	ND
G-MW Pyramid-Boort	2,293	98	98	0	0	2	0	0	0	0	ND	ND	ND	ND	ND	ND
G-MW Torrumbarry	4,519	91	87	1	0	12	0	0	0	0	ND	ND	ND	ND	ND	ND
G-MW Swan Hill Pumped	792	88	39	36	0	25	0	0	0	0	ND	ND	ND	ND	ND	ND
SRW Bacchus Marsh	175	99	77	1	ND	21	ND	ND	0	0	ND	ND	ND	ND	ND	ND
SRW Macalister	2,200	90	96	0	ND	ND	4	ND	ND	25	ND	ND	ND	100	ND	ND
SRW Werribee	391	100	88	2	ND	10	ND	ND	0	0	ND	ND	ND	ND	ND	ND
Wimmera-Mallee	243	90	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND
Ord Irrigation	139	100	94	0	0	6	0	0	0	0	ND	ND	ND	ND	ND	ND
Harvey Water	1,315	100	53	0	ND	ND	ND	47	0	0	ND	ND	ND	ND	ND	ND
Total	45,372								128							
Business totals																
SunWater (Qld)	11,197	100	53	3	1	13	0	30	ND	100	ND	ND	ND	ND	ND	ND
Goulburn Murray (Vic)	21,371	94	90	2	0	7	1	0	ND	29	ND	ND	ND	ND	ND	ND

Table 23 - Cost of Water Saved by Works Undertaken in Current Year - 2004/2005

System	E2: Water Accounting										
	E2.2: Relative cost of water saved in 2001/2002					E2.3: Tracking the Movement of Traded Water Entitlements					
	The capital (plus capitalised ongoing) cost of saving water, compared with the market value of water.					Net Extent of Water Trading Outside the Business					
	T2-E.16	T2-E.16	T2-E.16	T1-64	T2-E.16	T2-E.17	T2-E.18	T2-E.19	T2-E.20	T2-F.10	T2-F.11
Volume Saved (every year from now on)	Capitalised Cost of Saving this Water (at 4% in perpetuity)	Capitalised Cost per ML Saved	Average Market Price for Season (Capital Value for Permanent Transfer)	Cost of Savings as Portion of Market Value	Temporary (percentage of entitlement)	Permanent (percentage of entitlement)	Extent and Geographic Location of Entitlement Monitored?	Water Entitlement Trading Monitored to Individual Farm Level?	Geographic Location of the Use of Water Monitored?	Systems in Place to Aid the Understanding of System Reconfiguration Requirements?	
(ML/year)	(\$'000)	(\$/ML)	(\$/ML)	(%)	(%)	(%)					
Coleambally	45	150	3,333	600	556	0.00	0.28	N	N	Y	Y
Murray Irrigation	0	0	ND	553	ND	-0.03	0.82	Y	Y	Y	Y
Murrumbidgee	0	0	ND	1,476	ND	-0.31	-0.72	Y	Y	ND	ND
SW Bundaberg	ND	ND	ND	ND	ND	ND	ND	N	N	Y	N
SW Burdekin-Haughton	ND	ND	ND	ND	ND	ND	ND	N	N	Y	N
SW Dawson Valley	ND	ND	ND	ND	ND	ND	ND	Y	N	Y	N
SW Eton Water	ND	ND	ND	ND	ND	ND	ND	N	N	Y	N
SW Mareeba-Dimbulah	ND	ND	ND	ND	ND	ND	ND	N	N	Y	ND
SW Mary River	ND	ND	ND	ND	ND	ND	ND	N	N	Y	N
SW Nogoia Mackenzie	2,310	1,500	649	ND	ND	ND	ND	Y	Y	Y	ND
SW St George	ND	ND	ND	ND	ND	ND	ND	N	N	Y	N
Central Irrigation	ND	ND	ND	1,300	ND	0.26	-4.49	Y	Y	Y	Y
First Mildura	ND	ND	ND	ND	ND	-0.23	-6.79	Y	Y	N	N
G-MW Murray Valley	ND	ND	ND	1,040	ND	-0.22	8.17	Y	N	N	Y
G-MW Shepparton	ND	ND	ND	1,136	ND	-1.49	-8.80	Y	N	N	Y
G-MW Central Goulburn	ND	ND	ND	1,136	ND	-2.00	2.11	Y	N	N	Y
G-MW Rochester	ND	ND	ND	1,136	ND	-2.03	5.78	Y	Y	Y	Y
G-MW Pyramid-Boort	0	0	ND	1,136	ND	-1.45	-0.83	N	N	N	Y
G-MW Torrumbarry	ND	ND	ND	1,160	ND	-1.95	14.95	Y	N	N	Y
G-MW Swan Hill Pumped	ND	ND	ND	1,160	ND	-0.50	-15.03	Y	N	N	Y
SRW Bacchus Marsh	0	0	ND	ND	ND	-0.16	-1.83	Y	Y	Y	N
SRW Macalister	ND	ND	ND	ND	ND	ND	ND	Y	Y	Y	N
SRW Werribee	ND	ND	ND	ND	ND	0.07	0.87	Y	Y	Y	N
Wimmera-Mallee	ND	ND	ND	ND	ND	ND	-1.24	N	ND	N	Y
Ord Irrigation	ND	ND	ND	0	ND	0.00	0.00	N	N	N	N
Harvey Water	10	15	1,500	150	1,000	0.00	-2.76	Y	Y	Y	Y
Total	2,365	1,665	5,483								
Average				922	778	-0.63	-0.56				
No. of Positive Responses								16	10	16	12
No. of Negative Responses								10	15	9	11
Business totals											
SunWater (Qld)	2,310	1,500	1	ND		0.00	0.00	N	N	Y	N
Goulburn Murray (Vic)	ND	0	ND	ND		0.00	0.00	Y	N	ND	ND

Table 24 - Salt Transport - 2004/2005

System	E3: Water Salinity Management											
	E3.1: Salinity of Water Supplied					E3.2: Salinity of Water Discharged		Groundwater Quality		E3.3: Salt Balance		
	Salinity of Water Supplied to the Business				Salinity to Customers	Salinity / Salt Load to Drains Leaving the Irrigation Area		Salinity of Shallow Groundwater		Salt Transport via both Surface and Ground Water		
	T2-E.21	T2-E.21	T1-22 & T2-E.21	T2-E.23	T2-E.22	T1-46 & T2-E.24	T2-E.25	T1-54	T1-54	T2-E.26	T2-E.27	T2-E.27
	Peak 2004/2005	Lowest 2004/2005	Median 2004/2005	Median 5 years ago	Median 2004/2005	Median 2004/2005	Change in Salt Load in Last 5 Years	Minimum	Maximum	Salt Load In (tonnes /annum)	Salt Load Out (tonnes /annum)	Salt Retained (tonnes /annum)
(EC)	(EC)	(EC)	(EC)	(EC)	(EC)	(Qualitative)	(EC)	(EC)	(tonnes /annum)	(tonnes /annum)	(tonnes /annum)	
Coleambally	182	61	106	ND	106	371	No significant change	145	27,600	22,125	2,251	19,874
Murray Irrigation	39	19	30	56	53	330	Reduction	88	127,800	12,542	2,629	9,913
Murrumbidgee	195	49	62	66	62	336	Reduction	2,388	6,551	57,305	1,449	55,856
SW Bundaberg	585	301	415	534	415	ND	No significant change	ND	ND	ND	ND	ND
SW Burdekin-Haughton	173	100	136	ND	136	ND	No significant change	ND	ND	ND	ND	ND
SW Dawson Valley	257	205	229	ND	ND	ND	No significant change	ND	ND	ND	ND	ND
SW Eton Water	251	113	156	ND	156	ND	No significant change	ND	ND	ND	ND	ND
SW Mareeba-Dimbulah	119	73	89	84	89	ND	No significant change	ND	ND	ND	ND	ND
SW Mary River	311	251	285	264	285	ND	No significant change	ND	ND	ND	ND	ND
SW Nogoia Mackenzie	268	210	240	241	240	475	No significant change	ND	ND	ND	ND	ND
SW St George	ND	ND	ND	ND	ND	ND	No significant change	ND	ND	ND	ND	ND
Central Irrigation	510	163	290	500	290	3,000	Reduction	ND	ND	28,646	ND	ND
First Mildura	160	80	100	ND	100	ND	No significant change	ND	ND	ND	ND	ND
G-MW Murray Valley	70	49	55	55	55	500	Reduction	500	20,000	13,000	3,700	9,300
G-MW Shepparton	110	52	64	60	64	170	Reduction	500	20,000	8,200	1,500	6,700
G-MW Central Goulburn	110	50	80	70	80	320	Reduction	500	20,000	26,000	6,400	19,600
G-MW Rochester	110	60	90	86	90	550	Reduction	500	20,000	16,000	1,000	15,000
G-MW Pyramid-Boort	1,290	50	130	73	130	ND	No significant change	ND	ND	21,000	ND	ND
G-MW Torrumbarry	140	70	90	ND	90	6,000	No significant change	ND	ND	33,000	ND	ND
G-MW Swan Hill Pumped	500	40	110	ND	110	ND	No significant change	ND	ND	1,600	ND	ND
SRW Bacchus Marsh	1,100	290	390	ND	390	ND	No significant change	ND	ND	553	ND	ND
SRW Macalister	50	40	45	ND	45	ND	No significant change	ND	ND	ND	ND	ND
SRW Werribee	1,770	620	1,021	ND	1,021	ND	No significant change	ND	ND	6,350	ND	ND
Wimmera-Mallee	ND	ND	1,800	ND	1,800	1,700	No significant change	3,000	60,000	ND	ND	ND
Ord Irrigation	3	ND	25	ND	25	22	No significant change	ND	ND	ND	ND	ND
Harvey Water	225	30	460	ND	460	ND	Large increase	ND	ND	ND	ND	ND
Totals										246,321	18,929	136,243
Average of non-zero values										18,948	2,704	16,244
Weighted Average	189	68	146	105	150							
Business totals												
SunWater (Qld)	ND	ND	ND	ND	ND	ND	No significant change	ND	ND	ND	ND	ND
Goulburn Murray (Vic)	ND	ND	200	ND	200	1,500	No significant change	ND	ND	242,000	22,000	220,000

Graph 24.G1 - Salt Transport (Sorted by Salt Retained)

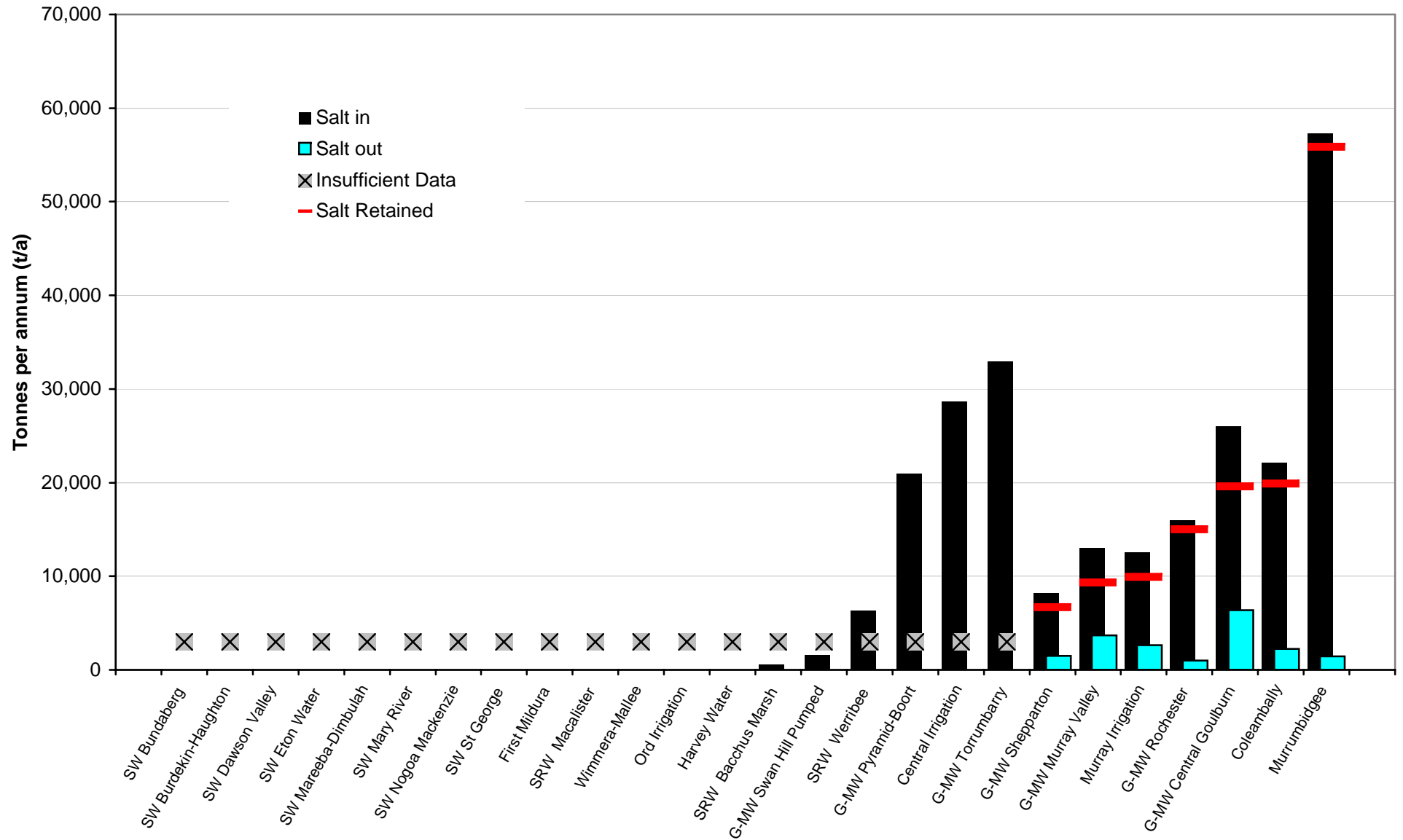


Table 25 - Environmental issues - 2004/2005

System	E4: Environmental Focus of the Business		
	The three key environmental issues impacting on the business in the last 12 months?		
	T2-E.28	T2-E.28	T2-E.28
	Environmental Issue 1	Environmental Issue 2	Environmental Issue 3
Coleambally	Farmers finding it difficult to maintain environmental programs due to 4 years of drought.	Water supply security and availability of water.	Soils salinity and saline intrusion into drains.
Murray Irrigation	Salinity	Vegetation decline	Acidity
Murrumbidgee	Water quality	Salinity	Biodiversity enhancement
SW Bundaberg	Soil salinity	Salt water intrusion in aquifers	Impact of barrages on tidal zones.
SW Burdekin-Haughton	Weed / pest management	Water quality protection	Rising groundwater levels
SW Dawson Valley	Watercourse degradation	Salinity in irrigation areas	Aquatic weeds
SW Eton Water	Water Allocation & Management Plan	Off Farm Discharge	Groundwater rise
SW Mareeba-Dimbulah	Intercatchment transfer	Water quality protection	Catchment management
SW Mary River	Developing new water supplies	Water quality	Riverine protection
SW Nogoia Mackenzie	Chemical spray drift	River health	Pesticide runoff to natural watercourse
SW St George	Water Quality	Blue Green Algae	Clogged channels / drains
Central Irrigation	Irrigation efficiency	Drainage impacts	Off-site impacts
First Mildura	Ageing infrastructure	Drainage to evaporation basins	Weed management in channels
G-MW Murray Valley	Natural waterways as carriers and drains	Drain water quality	Salinity
G-MW Shepparton	Drainage water quality (dairy shed effluent)	Illegal dumping of waste in reserves or system	Pesticide contamination
G-MW Central Goulburn	Drainage discharge to rivers	Water quality	Salinity
G-MW Rochester	Salinity	Water quality	Environmental flows
G-MW Pyramid-Boort	Use of natural waterways as carriers and drains	Impacts of dryland salinity on irrigation supplies	Wetland management plans
G-MW Torrumbarry	Use of natural waterways as carriers and drains	Water savings projects	Wetland management plans
G-MW Swan Hill Pumped	Drainage water for wetlands	Water use efficiency	Quality of drainage water
SRW Bacchus Marsh	Nutrient loads	Salinity	Environmental flows
SRW Macalister	Nutrient reduction	Salinity	Environmental flows
SRW Werribee	Water quality	Water security	E. Coli levels
Wimmera-Mallee	Pipeline the whole delivery system	Surface water quality	Dryland salinity
Ord Irrigation	Tailwater Quality	Drainage Water Quality	Groundwater
Harvey Water	Winter waterlogging	Salinity	Water quality
Business totals			
SunWater (Qld)	ND	ND	ND
Goulburn Murray (Vic)	Salinity in dryland and irrigation	Drainage management	Environmental flow allocation including quantity and quality

Table 26 - Business Functions - 2004/2005

O1: Separation of Organisational Responsibility															
	<i>Water resources assessment and allocation</i> <i>Headworks management</i> <i>Groundwater management</i> <i>Control of own bulk water supply system</i> <i>Irrigation water distribution</i> <i>Irrigation water application (your staff irrigate crops)</i> <i>Surface drainage services</i> <i>Sub-surface drainage services</i> <i>Bulk urban water supply</i> <i>Urban water supply</i> <i>Extraction of groundwater (at retail level)</i> <i>Conduct a water trading brokerage service</i> <i>Provide recreational facilities</i>														
System	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1	T2- O.1
Coleambally			Y		Y		Y	Y	Y				Y	Y	
Murray Irrigation					Y			Y	Y	Y				Y	
Murrumbidgee	Y		Y		Y		Y	Y	Y	Y					
SW Bundaberg		Y		Y	Y						Y				
SW Burdekin-Haughton		Y	Y	Y	Y			Y		Y	Y	Y			Y
SW Dawson Valley		Y		Y	Y			Y		Y				Y	
SW Eton Water		Y		Y	Y					Y					Y
SW Mareeba-Dimbulah		Y		Y	Y			Y		Y				Y	
SW Mary River		Y		Y	Y					Y					Y
SW Nogo Mackenzie		Y		Y	Y			Y	Y	Y				Y	Y
SW St George		Y		Y	Y			Y		Y					Y
Central Irrigation					Y		Y		Y	Y	Y			Y	
First Mildura					Y					Y					Y
G-MW Murray Valley	Y	Y	Y	Y	Y			Y	Y	Y				Y	
G-MW Shepparton	Y	Y	Y	Y	Y		Y	Y	Y	Y				Y	Y
G-MW Central Goulburn	Y	Y	Y	Y	Y			Y	Y	Y				Y	
G-MW Rochester	Y	Y	Y	Y	Y			Y	Y	Y				Y	Y
G-MW Pyramid-Boort	Y	Y	Y	Y	Y		Y	Y	Y	Y				Y	
G-MW Torrumbarry	Y	Y	Y	Y	Y			Y	Y	Y				Y	
G-MW Swan Hill Pumped	Y	Y	Y	Y	Y		Y	Y	Y				Y	Y	
SRW Bacchus Marsh			Y	Y	Y								Y		
SRW Macalister			Y	Y	Y		Y	Y	Y				Y		Y
SRW Werribee			Y	Y	Y			Y					Y		
Wimmera-Mallee	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y			Y
Ord Irrigation	Y		Y	Y	Y			Y							
Harvey Water					Y									Y	
Statistical analysis															
Positive responses	10	16	15	20	26	0	8	19	14	18	3	7	14	10	
% of 26 systems positive	38%	62%	58%	77%	100%	0%	31%	73%	54%	69%	12%	27%	54%	38%	

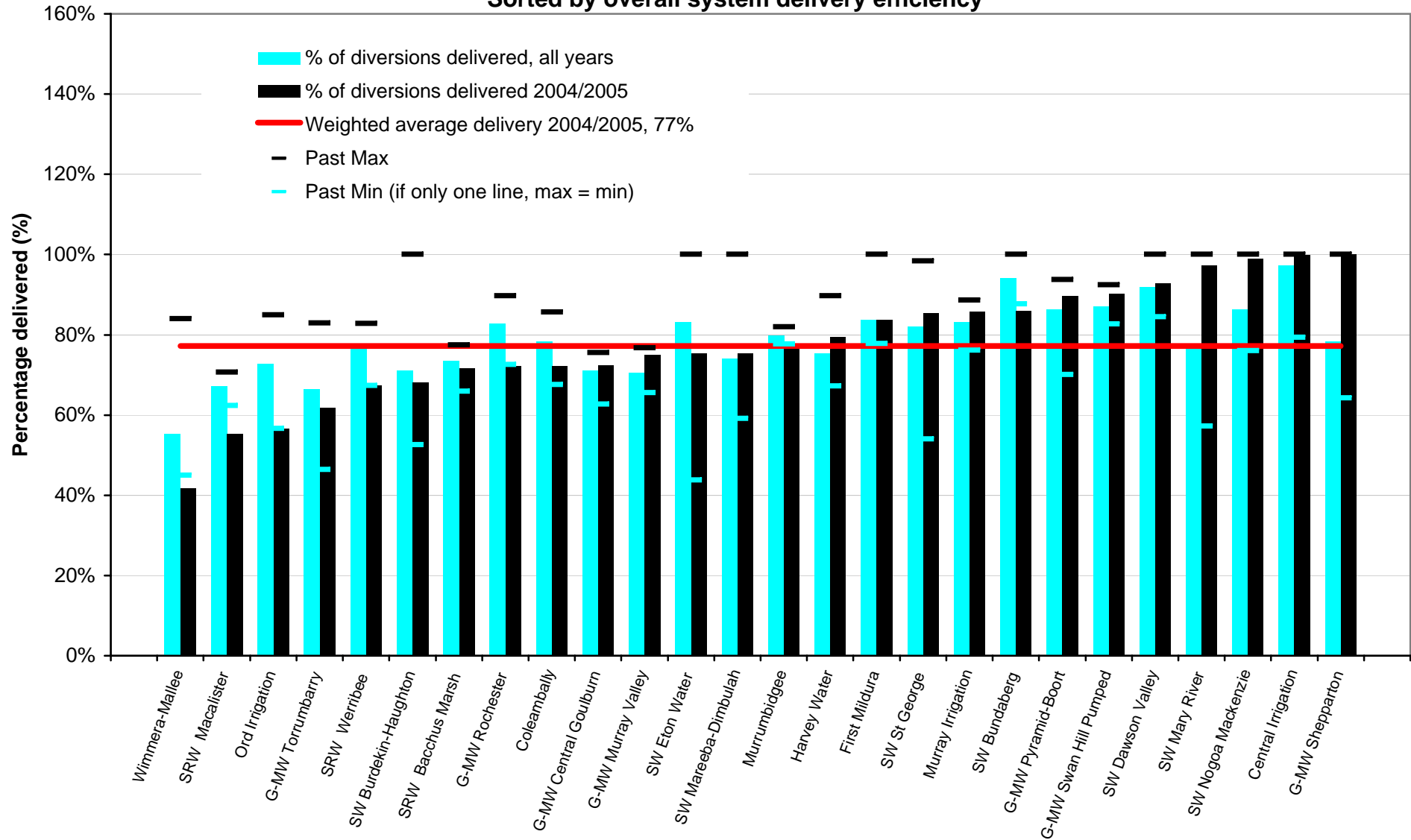
Table 27 - Carriers & Facilities - 2004/2005

System	O2: Water Delivery System Control															
	Operational Control Facilities						Number of Flow Measurement Points Excluding Customer Supply Points						Operations Staff Used			
	T2-O.2	T2-O.2	T2-O.2	T2-O.2	T2-O.2	T2-O.2	T2-O.2A	T2-O.2A	T2-O.2A	T2-O.2A	T2-O.2A	T2-O.2A	T2-O.2A	T2-O.3	T2-O.4	T2-O.4
	Total Number of Regulators	Regulating Structures Equipped with Remote or Automatic Control	Remotely Controlled Structures	Auto-matically Controlled Structures	Remote Water Level Measurement Structures	Remote Flow Measurement Structures	Mechanical	Ultrasonic	FlumeGate™	Manual	Other	TOTAL	For Length of Carrier	For Area in System	For Area Irrigated in 2004/2005	
(Number)	(Number)	(Number)	(Number)	(Number)	(Number)	(Number)	(Number)	(Number)	(Number)	(Number)	(Number)	(km/person)	(ha/person)	(ha/person)		
Coleambally	338	177	170	173	177	174	0	2	141	5	37	185	28	5,252	3,782	
Murray Irrigation	2,550	187	209	131	16	94	0	2	0	0	4	6	48	12,038	3,058	
Murrumbidgee	2,717	36	36	5	36	2	ND	ND	2	2436	ND	2438	36	7,510	1,958	
SW Bundaberg	24	0	ND	ND	ND	ND	ND	ND	ND	0	0	ND	70	5,415	ND	
SW Burdekin-Haughton	298	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW Dawson Valley	46	2	6	2	5	6	ND	3	ND	25	7	35	90	1,793	1,793	
SW Eton Water	13	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SW Mareeba-Dimbulah	234	ND	15	7	5	32	ND	ND	7	ND	32	44	93	4,258	2,555	
SW Mary River	3	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	122	7,166	2,321	
SW Nogoia Mackenzie	27	0	22	15	22	22	ND	30	15	40	ND	85	79	4,333	4,333	
SW St George	52	1	ND	1	4	1	ND	3	0	1	0	4	58	4,109	3,059	
Central Irrigation	0	0	2	78	0	10	4	0	0	0	6	10	72	2,667	2,404	
First Mildura	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	530	432	
G-MW Murray Valley	1,169	72	68	4	71	51	2	0	14	35	0	51	32	3,373	1,745	
G-MW Shepparton	935	11	6	5	13	9	12	2	6	81	0	101	30	3,580	1,910	
G-MW Central Goulburn	1,446	49	41	8	50	48	26	2	48	19	1	96	38	4,719	2,590	
G-MW Rochester	857	9	12	12	12	2	0	2	0	0	0	2	26	4,085	1,634	
G-MW Pyramid-Boort	1,083	25	25	0	40	27	16	1	25	29	0	71	48	7,062	3,293	
G-MW Torrumbarry	899	87	17	70	17	14	27	0	14	59	0	100	35	3,820	1,840	
G-MW Swan Hill Pumped	3	3	1	2	0	2	0	2	0	0	1	3	93	5,679	3,266	
SRW Bacchus Marsh	46	1	1	1	1	1	ND	ND	ND	10	1	11	14	604	456	
SRW Macalister	1,310	0	52	52	60	52	0	0	52	0	0	52	28	2,436	1,599	
SRW Werribee	227	4	4	4	2	4	ND	ND	1	ND	3	4	9	889	889	
Wimmera-Mallee	230	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	51	ND	
Ord Irrigation	120	25	25	15	25	ND	ND	10	15	ND	ND	25	28	2,500	2,500	
Harvey Water	243	48	33	44	19	39	ND	34	ND	ND	5	39	95	17,111	1,248	
Totals	14,870	833	745	629	575	590	87	93	340	2,740	97	3,362				
Weighted Average													37	5,213	2,270	
Business totals																
SunWater (Qld)	740	ND	43	25	31	61	ND	36	22	66	39	163	ND	ND	ND	
Goulburn Murray (Vic)	6,391	255	166	89	198	159	128	10	115	225	6	484	26	3,215	ND	

Table 28 - System Delivery Efficiency (portion of diversions from headworks delivered to consumers) - 2004/2005

System	O3: Water Delivery Management				
	Distribution Efficiency Compared with Similar Systems				
	T2-O.5	T2-O.5	T2-O.6	T2-O.7	T2-O.7
	Portion of Diversions Delivered to Customers				
	Own System Average Over All Years (%)	Own System 2004/2005 (%)	Target Water Delivery Efficiency for Own System (%)	Average for Dominant Carrier Type in System 2004/2005 (%)	Dominant Carrier Type in System
Coleambally	78	72	80	74	Channels
Murray Irrigation	83	86	78	74	Channels
Murrumbidgee	80	78	80	74	Channels
SW Bundaberg	94	86	80	86	Pipes
SW Burdekin-Haughton	71	68	70	74	Channels
SW Dawson Valley	92	93	80	95	Natural
SW Eton Water	83	75	80	86	Pipes
SW Mareeba-Dimbulah	74	75	74	86	Pipes
SW Mary River	77	97	80	95	Natural
SW Nogoia Mackenzie	86	99	80	95	Natural
SW St George	82	85	84	95	Natural
Central Irrigation	97	100	100	86	Pipes
First Mildura	84	84	ND	86	Pipes
G-MW Murray Valley	71	75	72	74	Channels
G-MW Shepparton	78	100	75	74	Channels
G-MW Central Goulburn	71	72	73	74	Channels
G-MW Rochester	83	72	73	74	Channels
G-MW Pyramid-Boort	86	90	76	74	Channels
G-MW Torrumbarry	66	62	66	74	Channels
G-MW Swan Hill Pumped	87	90	95	86	Pipes
SRW Bacchus Marsh	73	72	72	86	Pipes
SRW Macalister	67	55	70	74	Channels
SRW Werribee	78	67	67	74	Channels
Wimmera-Mallee	55	42	ND	74	Channels
Ord Irrigation	73	57	80	74	Channels
Harvey Water	75	80	85	74	Channels
Weighted average	77	77	74	77	
Business totals					
SunWater (Qld)	85	78	70	ND	ND
Goulburn Murray (Vic)	79	ND	65	74	Channels

Graph 28.G1 - System Delivery Efficiency
 (portion of water diverted from headworks which is delivered to customers)
Sorted by overall system delivery efficiency



Graph 28.G2 - System Delivery Efficiency
 (portion of water diverted from headworks which is delivered to customers)
Sorted by carrier type

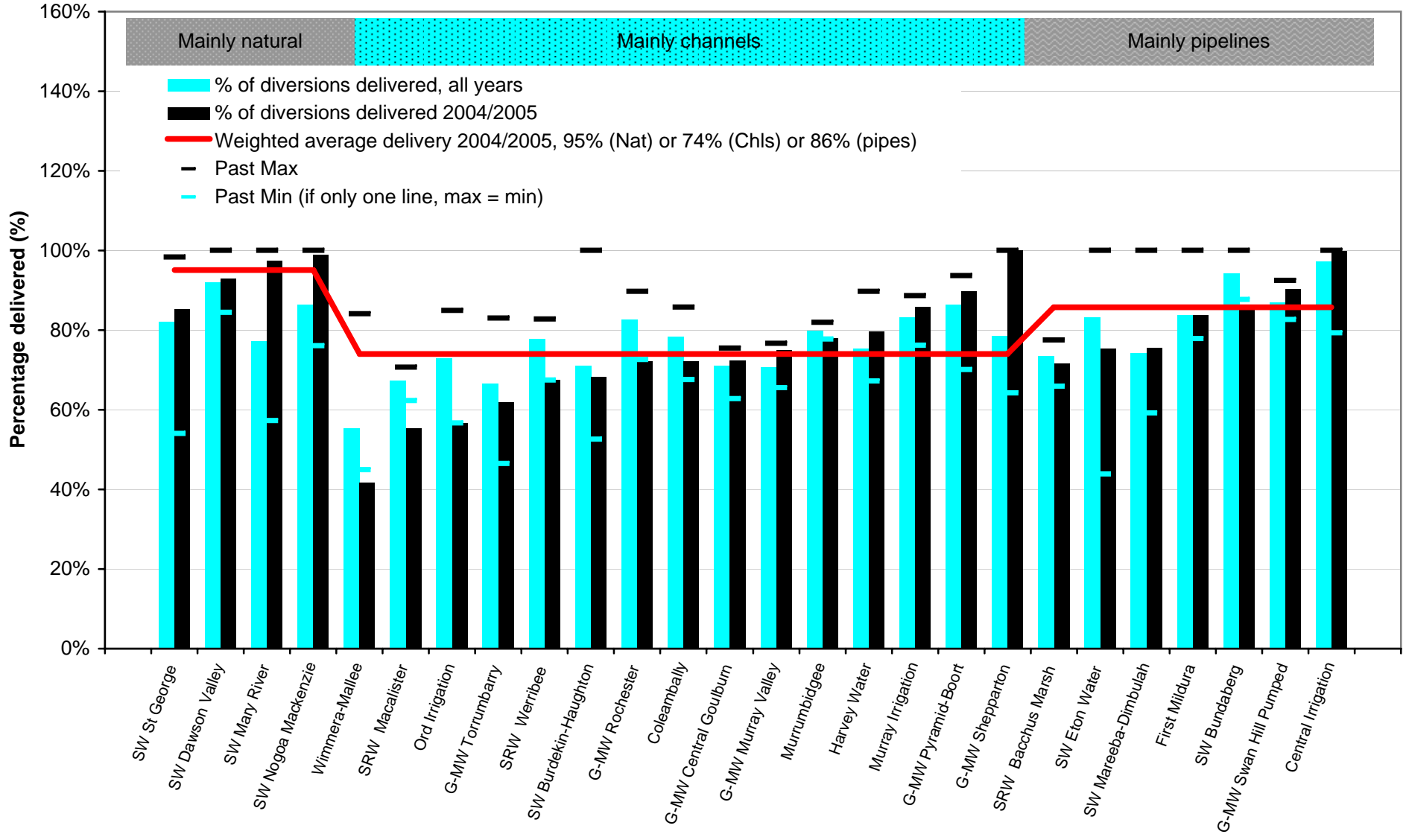
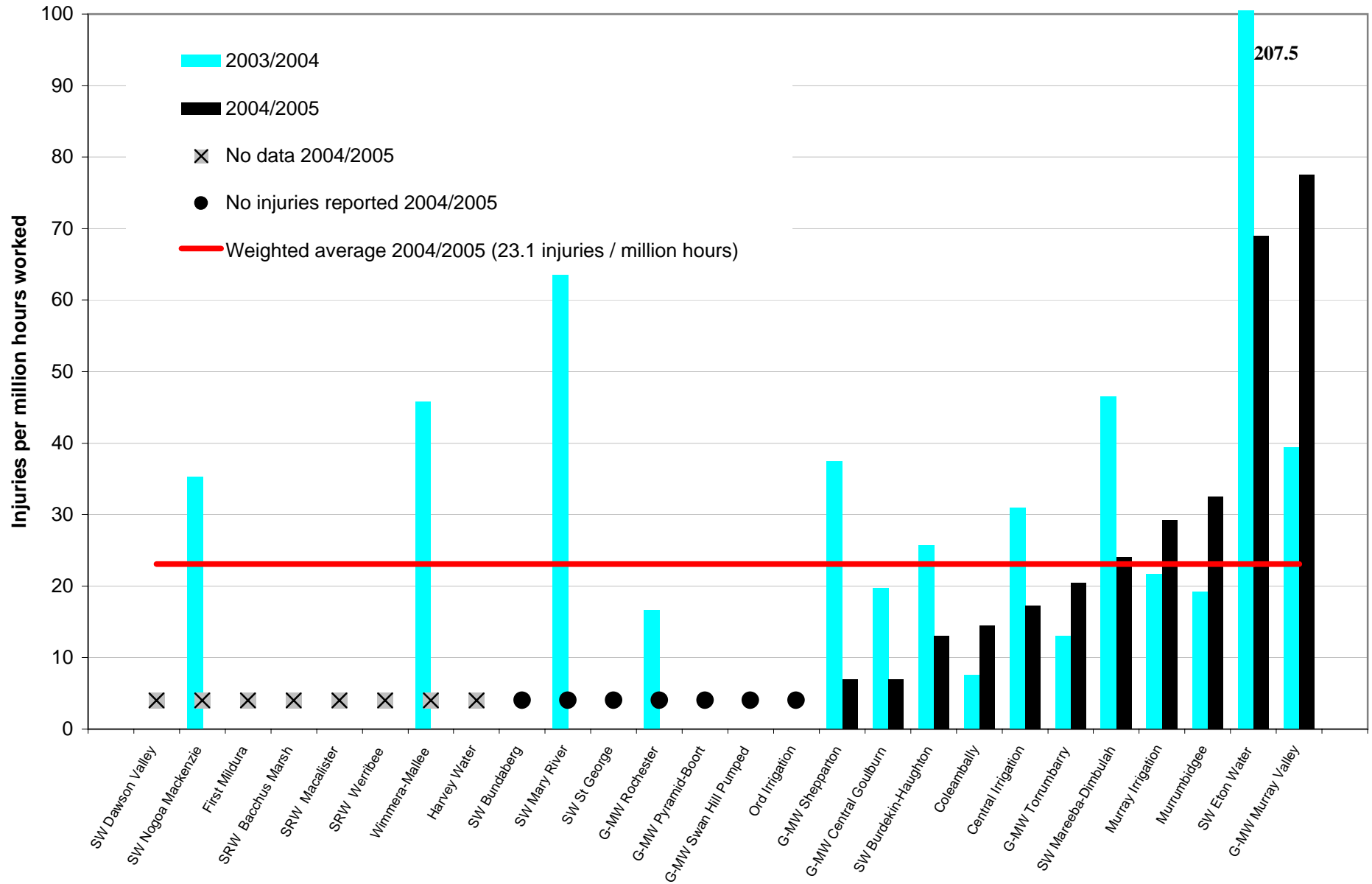


Table 29 - Employment and Safety Record - 2004/2005

System	Total Employment		O4: Work Place Safety			
	T1-18	T1-19	T2-O.8	T2-O.8	T2-O.9	T2-O.9
	Irrigation (FTE)	S & D (FTE)	Frequency Rate for Injury (Injuries per million hours)		Severity of Injuries (Days lost per injury)	
	2004/2005		2003/2004	2004/2005	2003/2004	2004/2005
Coleambally	45	2	7.6	14.5	6.5	25.0
Murray Irrigation	132	0	21.7	29.2	23.3	17.4
Murrumbidgee	197	0	19.2	32.5	8.2	13.1
SW Bundaberg	41	0	0.0	0.0	0.0	0.0
SW Burdekin-Haughton	0	0	25.7	13.0	6.0	3.0
SW Dawson Valley	7	0	0.0	ND	0.0	ND
SW Eton Water	0	0	207.5	69.0	9.0	2.0
SW Mareeba-Dimbulah	31	0	46.5	24.0	8.5	9.0
SW Mary River	4	0	76.0	0.0	24.0	0.0
SW Nogoa Mackenzie	18	0	35.3	ND	31.0	ND
SW St George	17	0	0.0	0.0	0.0	0.0
Central Irrigation	30	0	31.0	17.2	11.8	1.0
First Mildura	28	0	ND	ND	ND	ND
G-MW Murray Valley	77	1	39.4	77.6	7.7	5.8
G-MW Shepparton	34	2	37.4	7.0	19.2	17.6
G-MW Central Goulburn	80	1	19.7	7.0	9.3	10.2
G-MW Rochester	70	0	16.6	0.0	1.5	0.0
G-MW Pyramid-Boort	32	2	0.0	0.0	0.0	0.0
G-MW Torrumbarry	63	0	13.0	20.4	9.0	6.3
G-MW Swan Hill Pumped	3	0	ND	0.0	ND	0.0
SRW Bacchus Marsh	3	0	ND	ND	ND	ND
SRW Macalister	35	0	ND	ND	ND	ND
SRW Werribee	9	0	ND	ND	ND	ND
Wimmera-Mallee	4	94	45.8	ND	14.1	ND
Ord Irrigation	18	0	ND	0.0	ND	0.0
Harvey Water	18	0	ND	ND	ND	ND
Total	995	102				
Weighted average			25.9	23.1	11.3	11.2
Comments on special cases						
SunWater (Qld)	0	0	14.6	7.3	10.6	4.6
Goulburn Murray (Vic)	578	10	14.5	ND	10.1	ND

Graph 29.G1 - Frequency Rate for Injury



Graph 29.G2 - Average Lost Time Rate for Injuries

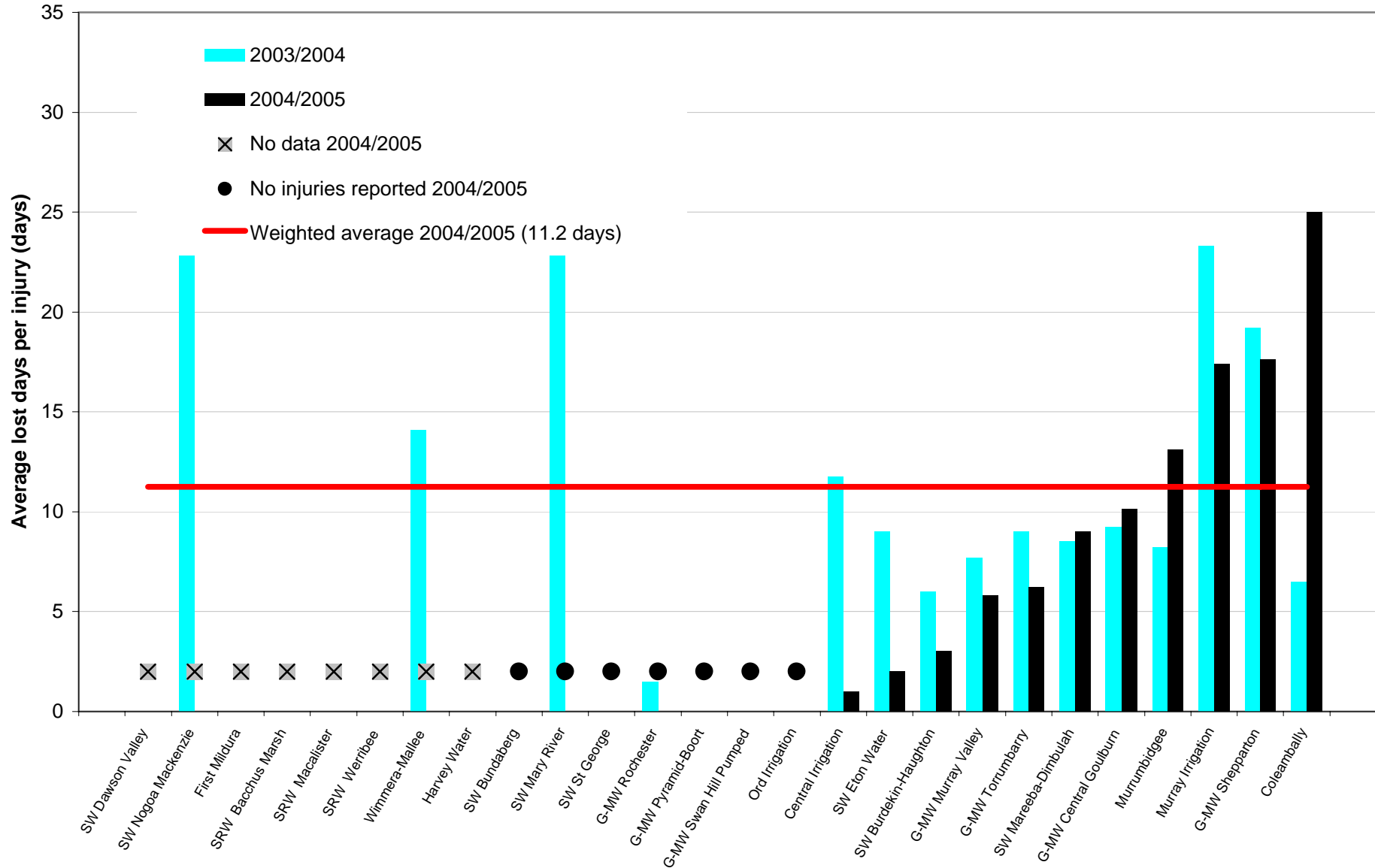
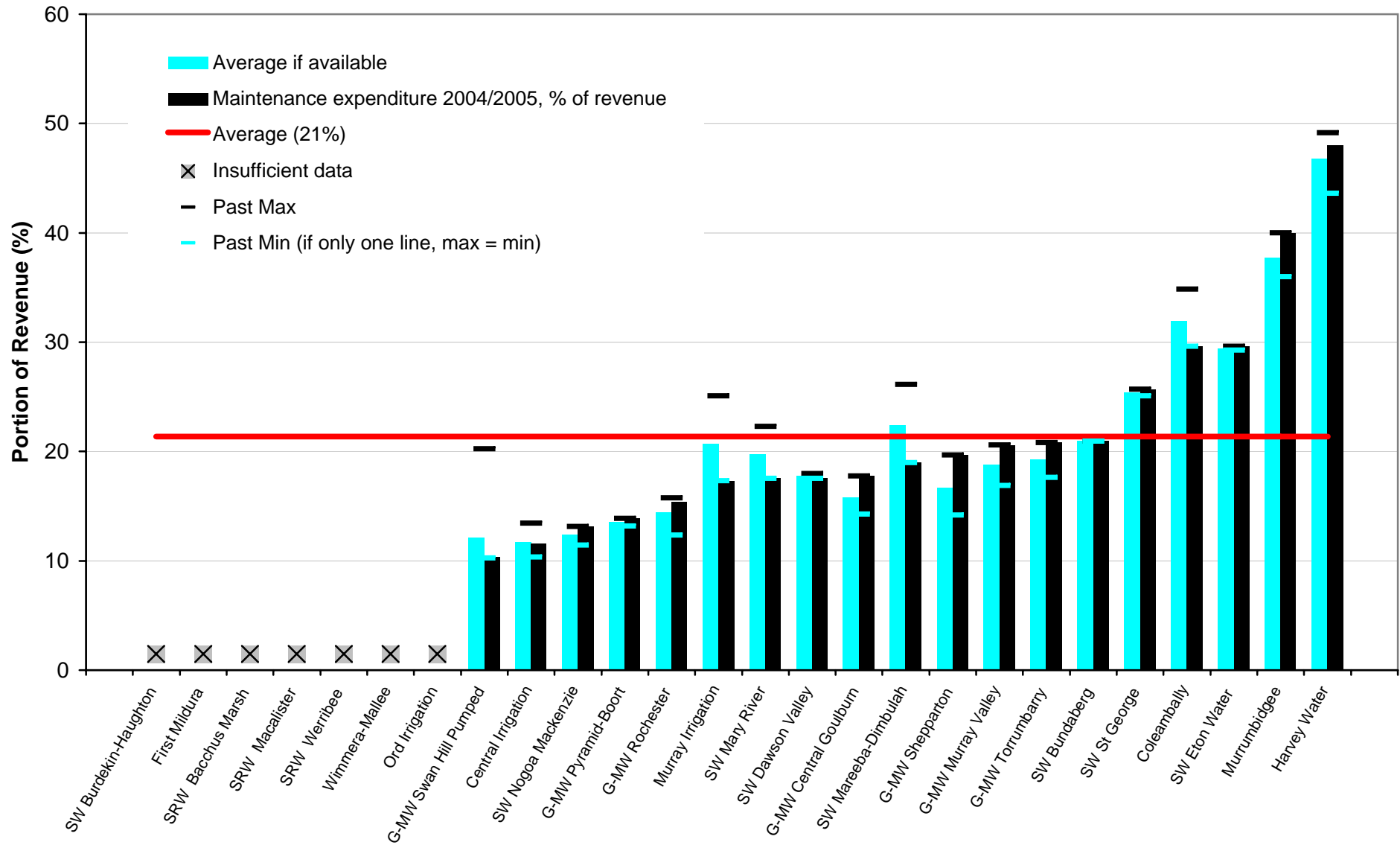


Table 30 - Asset Management - 2004/2005

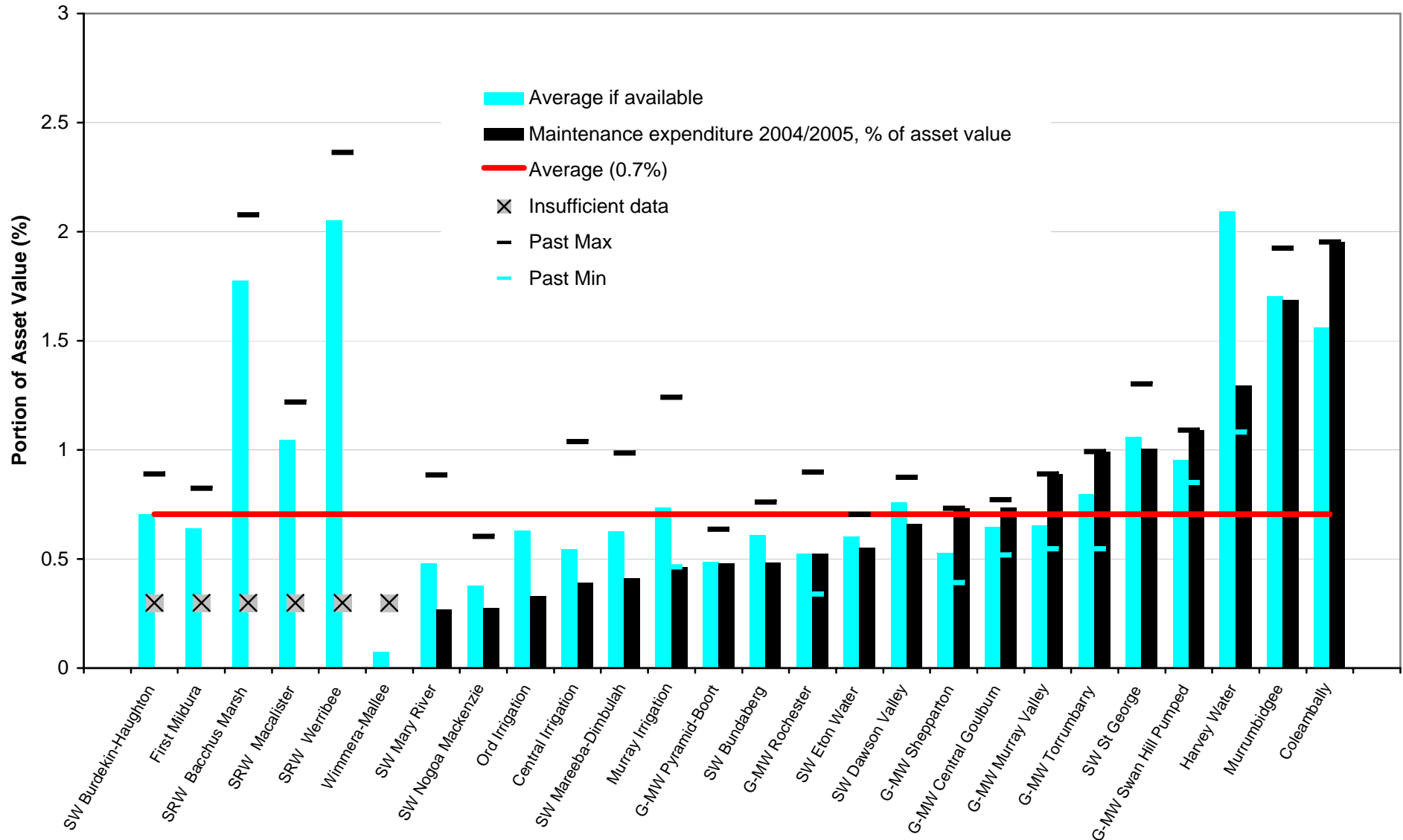
System	F1: Sustainable Management of Assets													
	Asset Replacement Planning							Funding of Maintenance						
	T2-F.1	T2-F.2	T2-F.3	T2-F.4	T2-F.7	T2-F.10	T2-F.11	T2-F.5	T2-F.6	T2-F.6	T2-F.6	T2-F.6	T2-F.6	T2-F.6
	Replacement Master Plan	Finance Master Plan	Replacement Profile	Risk Assessment	Replacement Priorities Based on Maintenance Records	Geographic Location of the Use of Water Monitored	Systems in Place to Aid the Understanding of System Reconfiguration Requirements	Proportion of Irrigation & Drainage Revenue Spent on Maintenance	Replacement Value of all Assets	Expected Total Life of all Assets When New	Remaining Life of Irrigation Assets	Maintenance Expenditure on Irrigation Assets	Replacement Value of Irrigation Assets	Portion of Asset Value Spent on Maintenance
							(%)	(\$000)	(Years)	(Years)	(\$000)	(\$000)	(%)	
Coleambally	Y	Y	N	Y	N	Y	Y	30	115,710	86	48	2,077	106,453	2.0
Murray Irrigation	Y	Y	Y	Y	Y	Y	Y	17	700,000	85	25	3,243	700,000	0.5
Murrumbidgee	N	N	N	N	N	ND	ND	40	380,000	60	14	6,279	372,400	1.7
SW Bundaberg	Y	Y	Y	Y	Y	Y	N	21	373,191	80	60	1,798	373,191	0.5
SW Burdekin-Haughton	Y	Y	Y	Y	Y	Y	N	ND	427,489	81	59	ND	427,489	ND
SW Dawson Valley	Y	Y	Y	Y	Y	Y	N	18	57,462	102	59	379	57,462	0.7
SW Eton Water	Y	Y	Y	Y	Y	Y	N	30	118,560	81	55	656	118,560	0.6
SW Mareeba-Dimbulah	Y	Y	Y	Y	Y	Y	ND	19	214,283	90	49	881	214,283	0.4
SW Mary River	Y	Y	Y	Y	Y	Y	N	18	69,494	77	56	185	69,494	0.3
SW Nogoa Mackenzie	Y	Y	Y	Y	Y	Y	ND	13	205,922	113	85	565	205,922	0.3
SW St George	Y	Y	Y	Y	Y	Y	N	26	59,458	76	25	597	59,458	1.0
Central Irrigation	Y	Y	N	Y	N	Y	Y	12	223,877	88	72	876	223,877	0.4
First Mildura	Y	Y	Y	Y	Y	N	N	ND	111,644	100	24	ND	111,644	ND
G-MW Murray Valley	Y	Y	Y	Y	Y	N	Y	21	266,390	97	47	2,366	266,390	0.9
G-MW Shepparton	Y	Y	Y	Y	Y	N	Y	20	244,777	105	56	1,793	244,777	0.7
G-MW Central Goulburn	Y	Y	Y	Y	Y	N	Y	18	430,117	99	52	3,151	430,117	0.7
G-MW Rochester	Y	Y	Y	Y	Y	Y	Y	15	261,111	117	60	1,363	261,111	0.5
G-MW Pyramid-Boort	Y	Y	Y	Y	Y	N	Y	14	199,617	128	67	953	199,617	0.5
G-MW Torrumbarry	Y	Y	Y	Y	Y	N	Y	21	279,355	111	56	2,770	279,355	1.0
G-MW Swan Hill Pumped	Y	Y	Y	Y	Y	N	Y	10	24,254	75	52	264	24,254	1.1
SRW Bacchus Marsh	N	N	Y	Y	N	Y	N	ND	5,585	100	40	ND	5,585	ND
SRW Macalister	N	N	Y	Y	N	Y	N	ND	110,308	100	40	ND	110,308	ND
SRW Werribee	N	N	Y	Y	N	Y	N	ND	12,743	80	30	ND	12,743	ND
Wimmera-Mallee	Y	Y	Y	Y	Y	N	Y	ND	196,000	86	35	ND	196,000	ND
Ord Irrigation	Y	Y	Y	Y	Y	N	N	ND	260,000	80	40	850	260,000	0.3
Harvey Water	Y	Y	N	Y	N	Y	Y	48	85,000	93	45	1,098	85,000	1.3
Weighted Average								21		91	48			0.7
Totals 2004/2005									5,432,347			32,144	5,415,490	
Positive responses	22	22	22	25	19	16	12							
Business totals														
SunWater (Qld)	Y	Y	Y	Y	Y	Y	N	ND	2,382,364	ND	ND	ND		ND
Goulburn Murray (Vic)	Y	Y	Y	Y	Y	ND	ND	ND	1,727,086	108	56	ND		ND

Note: Average should not be compared directly with 2004/2005 average, because the participating systems were not all the same.
 Totals are for data provided - note that different systems missed providing data for *replacement value of assets and maintenance expenditure*.

Graph 30.G1 - Irrigation Maintenance Expenditure as Portion of Irrigation Revenue (%)



Graph 30.G2 - Maintenance Expenditure as Portion of Asset Value (%)



Graph 30.G3 - Relationship Between Remaining Life of Assets and Expenditure on Maintenance

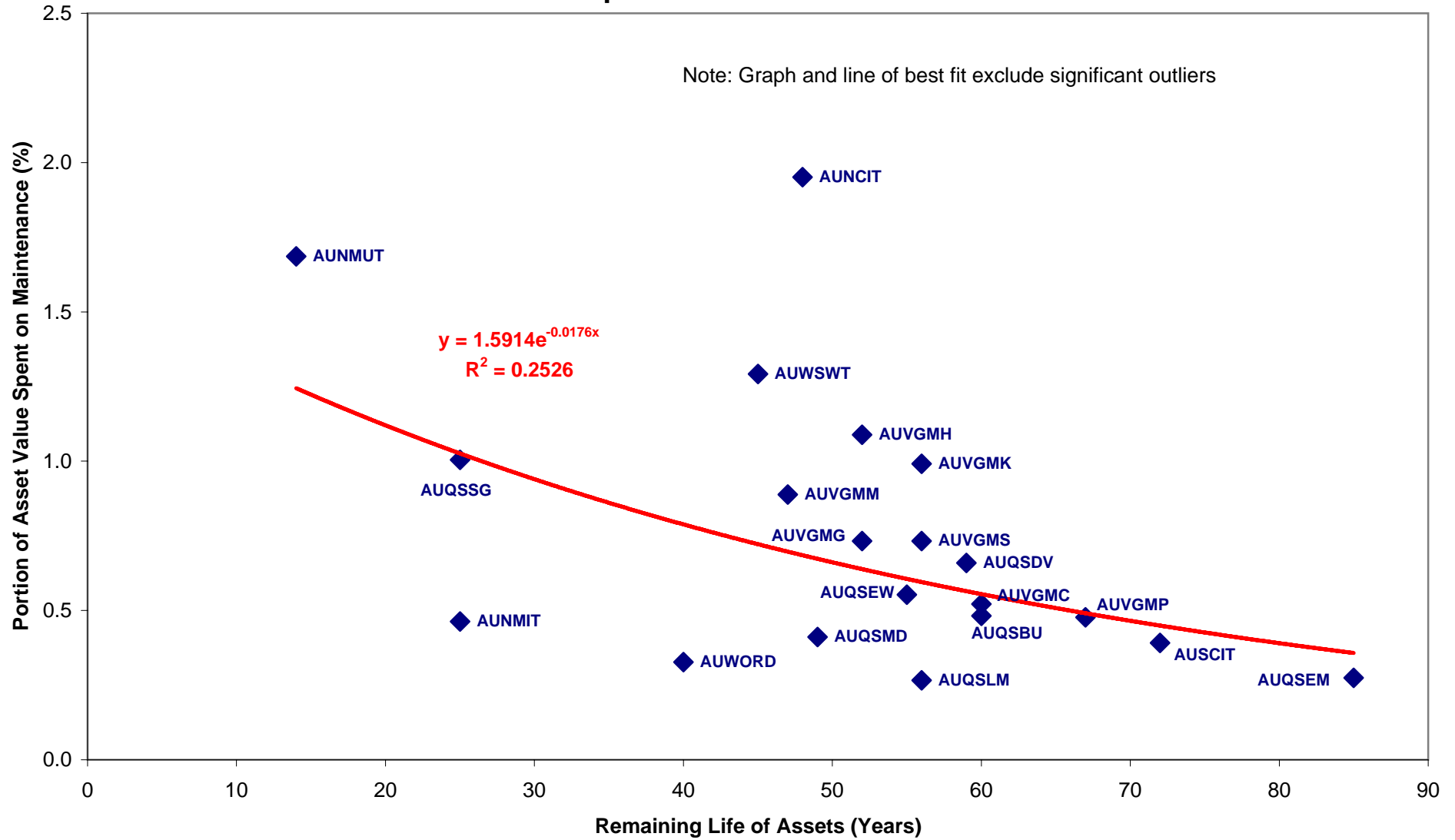
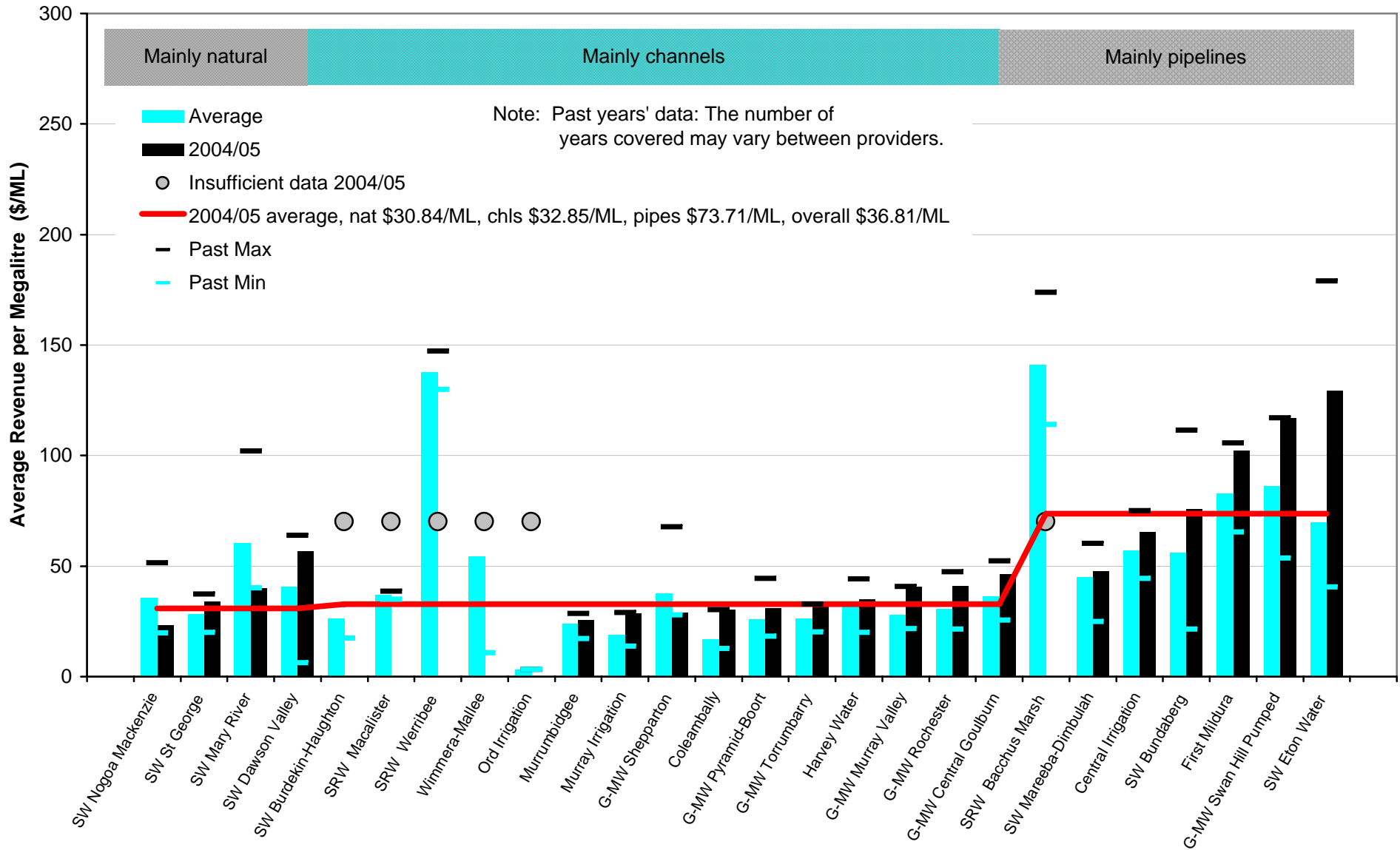


Table 31 - Soundness of the Business Planning - Cost Recovery - 2004/2005										
System	Business planning	The costs covered by charges for water								
		Irrigation Tarriff Structure				Stock and Domestic Tarriff Structure				
		T1-74	T1-74	T1-74	T1-74	T1-74	T1-74	T1-74	T1-74	T1-74
	T2-F.8	T2-F.9	T2-F.9	T2-F.9	T2-F.9					
	Written Business Disaster Recovery Plan Incorporating Elements of AS 4360 ? (Risk Management)	Service Component	Volume Supplied	Area of Land Serviced	Other	Service Component	Volume Supplied	Area of Land Serviced	Included in Irrigation Water Charge	Other
Coleambally	N	Y	Y		Y	Y	Y			Y
Murray Irrigation	Y	Y	Y							
Murrumbidgee	N	Y	Y		Y					
SW Bundaberg *	N	Y	Y							
SW Burdekin-Haughton *	N	Y	Y							
SW Dawson Valley *	N	Y	Y							
SW Eton Water *	N	Y	Y							
SW Mareeba-Dimbulah *	N	Y	Y							
SW Mary River *	N	Y	Y							
SW Nogoia Mackenzie *	N	Y	Y							
SW St George *	N	Y	Y							
Central Irrigation	N	Y	Y			Y	Y			
First Mildura	Y	Y	Y							
G-MW Murray Valley	N	Y	Y							
G-MW Shepparton	N	Y	Y							
G-MW Central Goulburn	N	Y	Y							
G-MW Rochester	N	Y	Y							
G-MW Pyramid-Boort	N	Y	Y							
G-MW Torrumbarry	N	Y	Y							
G-MW Swan Hill Pumped	N	Y	Y							
SRW Bacchus Marsh	Y		Y							
SRW Macalister	Y		Y				Y			
SRW Werribee	Y	Y	Y	Y						
Wimmera-Mallee	Y	Y	Y			Y		Y		
Ord Irrigation	Y	Y	Y		Y					
Harvey Water	Y	Y	Y	Y	Y					
Statistical Analysis										
Positive responses	8	24	26	2	4	3	3	1	0	1
Negative responses	18									

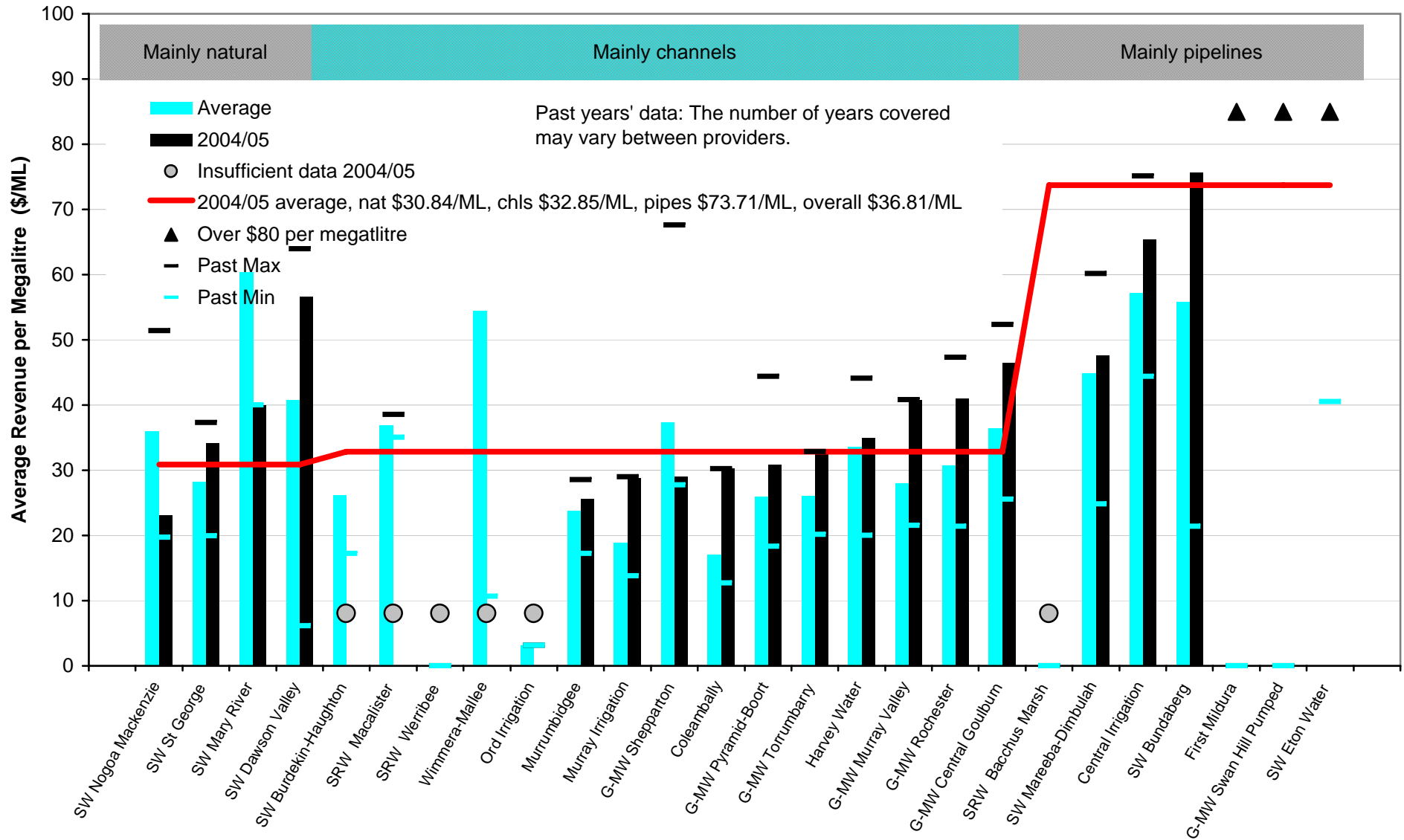
NOTE: For SunWater systems (marked *) the pricing structure refers to "medium priority water".

Table 32 - Soundness of the Business Planning - Irrigation Water Pricing - 2004/2005													
System	Pricing Structure for High Reliability Irrigation Water *											Irrigation Revenue per ML of Irrigation Water Delivered	
	T1-75	T1-75	T1-75	T1-75	T1-75	T1-75	T1-75	T1-75	T1-75	T1-75	T1-75	T1-75	T1-75
	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9	T2-F.9
	Total Charge Per ML	Water Delivery Charge	Water Entitlement Charge	Bulk Water Charge	Renewals Charge	Environmental Charge	Drainage Charge (in water price)	Other Charge	Government Funding (additional to sales revenue)	Service or Fixed Charge	Over Allocation Charge Compared with Basic Charge	Average (as given in each year)	Current Year 2004/2005
(\$/ML)	(\$/ML)	(\$/ML)	(\$/ML)	(\$/ML)	(\$/ML)	(\$/ML)	(\$/ML)	(\$/ML)	(\$/ML)	(\$/year)		(\$/ML)	(\$/ML)
Coleambally	43.00	5.31	6.69	3.74	2.65	0.00	0.00	0.00	0.00	0	Lower	16.99	30.24
Murray Irrigation	21.11	7.70	9.57	1.78	1.55	0.00	0.51	0.00	14.40	ND	Same	18.87	28.79
Murrumbidgee	30.16	19.05	4.40	4.01	2.19	0.51	ND	ND	17.32	495	Same	23.83	25.59
SW Bundaberg *	52.79	21.07	31.72	ND	ND	ND	ND	ND	ND	ND	Same	55.83	75.62
SW Burdekin-Haughton *	38.96	12.92	26.04	ND	ND	ND	ND	ND	ND	ND	Same	26.21	ND
SW Dawson Valley *	56.65	21.53	35.12	ND	ND	ND	ND	ND	ND	ND	Same	40.77	56.63
SW Eton Water *	50.47	20.11	30.36	ND	ND	ND	ND	ND	ND	ND	Same	69.91	129.35
SW Mareeba-Dimbulah *	41.33	18.13	23.20	ND	ND	ND	ND	ND	ND	450	Same	44.91	47.60
SW Mary River *	51.42	22.66	28.76	ND	ND	ND	ND	ND	ND	ND	Same	60.36	40.03
SW Nogoia Mackenzie *	28.88	10.08	18.80	ND	ND	ND	ND	ND	ND	ND	Same	35.88	23.06
SW St George *	34.21	12.69	21.52	ND	ND	ND	ND	ND	ND	ND	Same	28.25	34.17
Central Irrigation	49.33	39.70	6.00	0.00	0.00 #	3.63	0.00	ND	ND	0	Higher	57.24	65.42
First Mildura	80.80	38.60	31.28	6.72	ND	0.00	4.20	ND	ND	ND	Higher	82.87	102.28
G-MW Murray Valley	35.52	7.98	20.01	7.53	ND	ND	ND	ND	0.00	100	Lower	27.95	40.81
G-MW Shepparton	43.97	6.37	29.75	7.85	ND	ND	ND	ND	0.00	100	Lower	37.41	29.02
G-MW Central Goulburn	40.05	9.85	22.35	7.85	ND	ND	ND	ND	23.42	100	Lower	36.39	46.44
G-MW Rochester	37.06	8.96	20.25	7.85	ND	ND	ND	ND	0.89	100	Lower	30.75	41.02
G-MW Pyramid-Boort	30.67	6.55	16.27	7.85	ND	ND	ND	ND	0.00	100	Lower	25.88	30.91
G-MW Torrumbarry	33.97	8.13	18.31	7.53	ND	ND	ND	ND	0.20	100	Lower	26.09	32.85
G-MW Swan Hill Pumped	67.97	14.96	46.06	6.95	ND	ND	ND	ND	0.00	100	Lower	86.07	116.99
SRW Bacchus Marsh	126.62	ND	94.97	ND	31.65	ND	ND	ND	ND	ND	Same	141.26	ND
SRW Macalister	40.25	30.19	ND	ND	10.06	ND	ND	ND	ND	ND	No data	36.87	ND
SRW Werribee	134.87	ND	101.15	ND	33.72	ND	ND	ND	ND	ND	Same	137.47	ND
Wimmera-Mallee	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Same	54.43	ND
Ord Irrigation	95.84	2.49	0.00	0.00	52.22	0.00	0.00	41.13	12.35	0	Same	3.13	ND
Harvey Water	41.25	22.47	ND	ND	17.88	ND	ND	0.90	0.00	399	Higher	33.54	34.93
Weighted averages													
- All available data	37.78	12.49	15.36	4.68	7.33	0.88	0.71	15.89	7.75	173		28.77	36.81
- Common data set												28.68	36.81
NOTES: (i) For Sun Water systems (marked *) the pricing structure refers to "medium priority water".													
(ii) The Renewals Charge (marked #) for Central Irrigation is included in the Volumetric Charge.													
(iii) Charges assume an average water entitlement is delivered.													

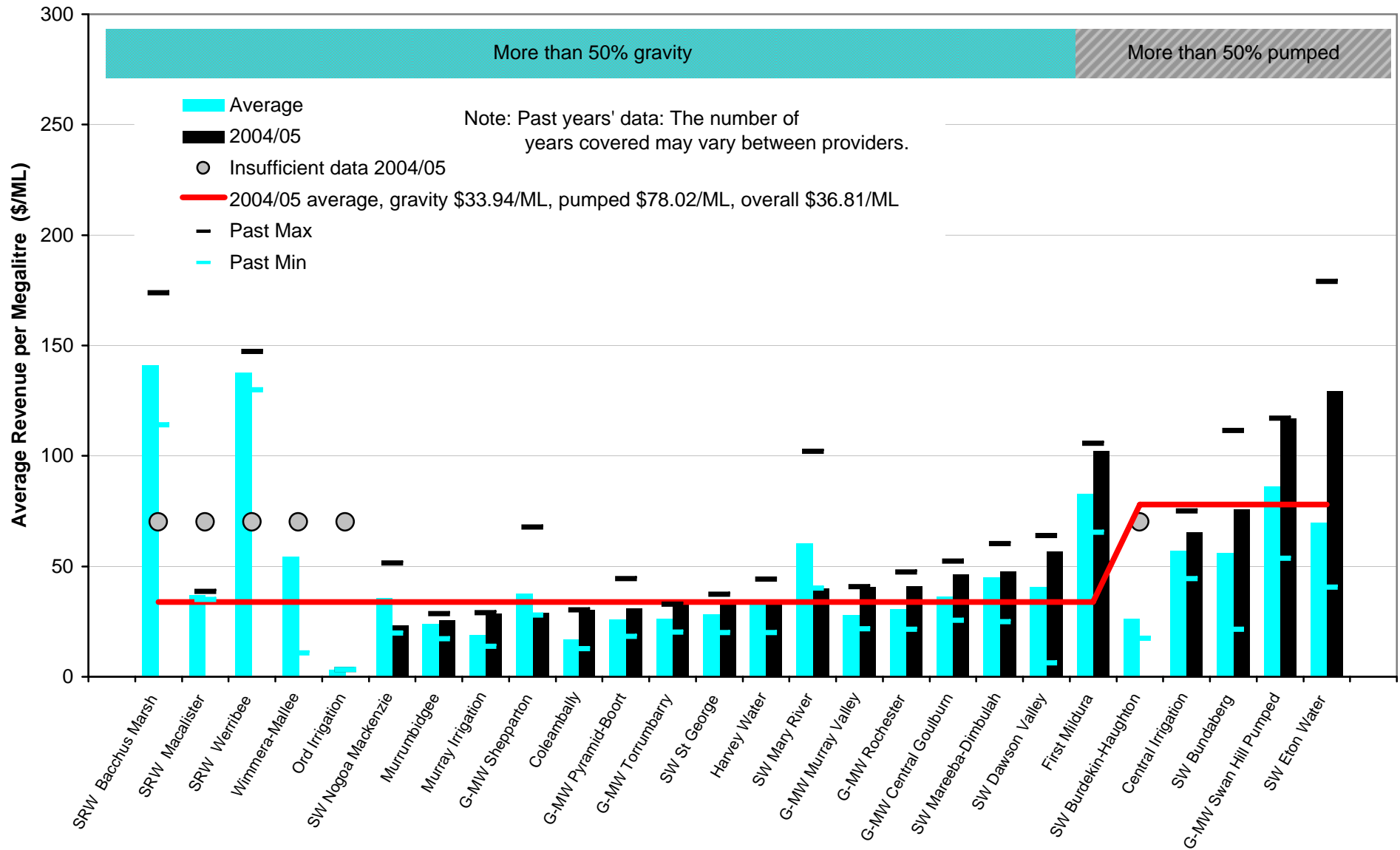
Graph 32.G1 - Irrigation Revenue per ML of Irrigation Water Entitlement - All Systems
(Sorted by Carrier Type)



Graph 32.G2 - Irrigation Revenue per ML of Water Entitlement - Systems up to \$80 per ML
 (Sorted by Carrier Type)



Graph 32.G3 - Irrigation Revenue per ML of Irrigation Water Entitlement - All Systems
 Sorted by Delivery Method (Mainly Gravity or Mainly Pumped)



Graph 32.G4 - Irrigation Revenue per ML of Water Entitlement - Systems up to \$80 per ML
 Sorted by Delivery Method (Mainly Gravity or Mainly Pumped)

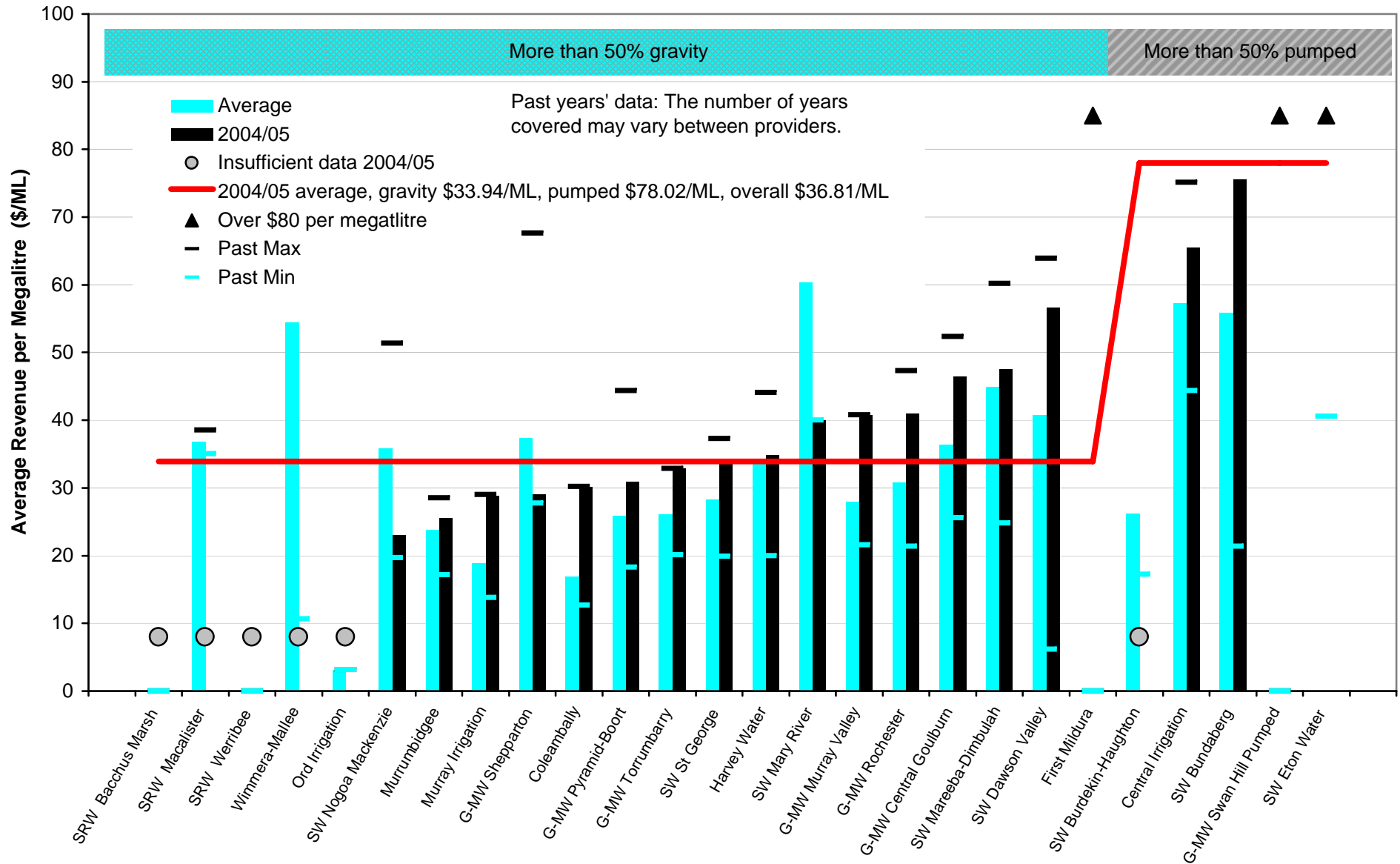


Table 33 - Defining Water Access Arrangements - 2004/2005

System	W1: Water Entitlements				
	T2-W.1	T2-W.1	T2-W.1	T2-W.1	T2-W.1
	Entitlements Volumetrically Defined	Water Entitlement Ownership Restricted to Land Owners	Entitlements Include Pressures, and/or Flow Rate	Entitlements Include Reliability of Supply	Entitlements Include Defined Water Quality
Coleambally	Y	Y	N	N	N
Murray Irrigation	Y	Y	N	N	N
Murrumbidgee	Y	N	N	N	N
SW Bundaberg	Y	N	N	Y	N
SW Burdekin-Haughton	Y	Y	Y	Y	N
SW Dawson Valley	Y	N	N	Y	N
SW Eton Water	Y	Y	N	Y	Y
SW Mareeba-Dimbulah	Y	N	N	Y	N
SW Mary River	Y	Y	N	Y	N
SW Nogoa Mackenzie	Y	N	N	Y	N
SW St George	Y	Y	N	Y	N
Central Irrigation	Y	Y	Y	Y	Y
First Mildura	Y	Y	Y	N	N
G-MW Murray Valley	Y	Y	N	Y	N
G-MW Shepparton	Y	Y	N	Y	N
G-MW Central Goulburn	Y	Y	N	N	N
G-MW Rochester	Y	Y	N	N	N
G-MW Pyramid-Boort	Y	Y	N	Y	N
G-MW Torrumbarry	Y	Y	N	N	N
G-MW Swan Hill Pumped	Y	Y	Y	Y	N
SRW Bacchus Marsh	Y	Y	N	N	N
SRW Macalister	Y	Y	N	N	N
SRW Werribee	Y	Y	N	N	N
Wimmera-Mallee	Y	Y	N	Y	N
Ord Irrigation	Y	N	N	Y	Y
Harvey Water	Y	Y	Y	N	N
Business totals					
SunWater (Qld)	Y	N	N	Y	N
Goulburn Murray (Vic)	Y	Y	N	Y	N
Statistical analysis					
Positive responses	26	20	5	15	3
Negative responses	0	6	21	11	23
Total responses	26	26	26	26	26
% of responses positive	100%	77%	19%	58%	12%
% of 26 systems positive	100%	77%	19%	58%	12%

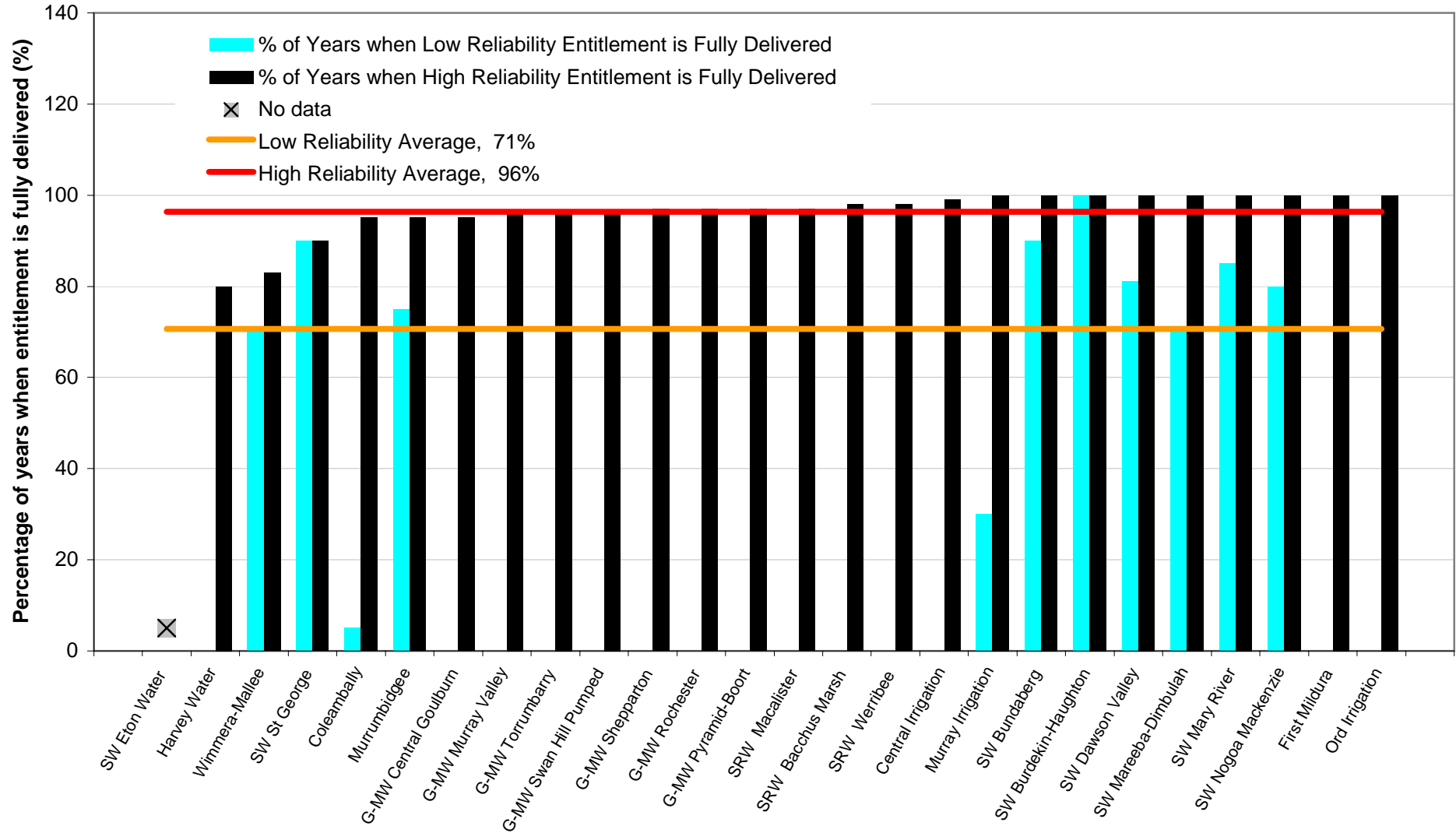
Table 34 - Headworks and Distribution System Capacity Shares - 2004/2005

	W2: Headworks and Distribution System Capacity Shares (being part of Water Entitlements)						
	T2-W.2	T2-W.2	T2-W.2	T2-W.2	T2-W.2	T2-W.2	T2-W.2
	Headworks			Distribution System			
	Water Entitlement Volumetrically Defined in Terms of Volume Share (ML)	Water Entitlement Defined in Terms of Delivery Capacity Share (ML/d)	Water Entitlement Defined in Other Way	Capacity Shares Volumetrically Defined (ML/yr)	Capacity Shares Include Pressures, Level and/or Head	Capacity Shares Include Peak Flow (ML/d)	Capacity Shares Include Reliability
Coleambally	N	Y	Y	N	N	N	N
Murray Irrigation	N	N	N	N	N	N	N
Murrumbidgee	N	N	N	N	N	N	N
SW Bundaberg	N	N	N	N	N	Y	N
SW Burdekin-Haughton	N	N	N	N	N	Y	N
SW Dawson Valley	N	N	N	N	N	Y	N
SW Eton Water	N	N	N	N	N	Y	N
SW Mareeba-Dimbulah	N	N	N	N	N	Y	N
SW Mary River	N	N	N	Y	N	Y	N
SW Nogo Mackenzie	ND	N	N	N	N	N	N
SW St George	Y	N	N	Y	N	Y	N
Central Irrigation	N	N	N	N	N	N	N
First Mildura	Y	N	N	Y	Y	N	N
G-MW Murray Valley	Y	N	Y	N	N	N	N
G-MW Shepparton	Y	N	N	Y	N	N	N
G-MW Central Goulburn	Y	Y	N	Y	N	Y	N
G-MW Rochester	Y	N	N	Y	N	Y	N
G-MW Pyramid-Boort	Y	N	N	N	N	N	N
G-MW Torrumbarry	Y	N	N	Y	N	Y	Y
G-MW Swan Hill Pumped	Y	Y	N	Y	Y	Y	N
SRW Bacchus Marsh	N	N	Y	N	N	N	N
SRW Macalister	N	N	Y	N	N	N	N
SRW Werribee	N	N	Y	N	N	N	N
Wimmera-Mallee	Y	N	N	N	N	N	N
Ord Irrigation	N	Y	N	Y	N	N	N
Harvey Water	Y	N	N	Y	N	N	N
Business totals							
SunWater (Qld)	Y	N	N	N	N	Y	N
Goulburn Murray (Vic)	ND	Y	ND	Y	ND	Y	ND
Statistical analysis							
Positive responses	11	4	5	10	2	11	1
Negative responses	14	22	21	16	24	15	25
Total responses	25	26	26	26	26	26	26
% of responses positive	44%	15%	19%	38%	8%	42%	4%
% of 26 systems positive	42%	15%	19%	38%	8%	42%	4%

Table 35 - Reliability of Water Supply - 2004/2005

System	W3: System Reliability					
	T1-62	T1-62	T1-63	T1-63	T2-W.4	T2-W.4
	Entitlement Classified as High Reliability (%)		Entitlement Reliability (Years in 100 Full Entitlement is Available) (%)		Proportion of Entitlement Delivered (%)	
	Irrigators supplied direct from streams	Irrigators supplied from system	Low/Med Reliability Water	High Reliability Water	Average, all years	Actual, 2004/2005
Coleambally	ND	2	5	95	70	47
Murray Irrigation	ND	1	30	100	63	44
Murrumbidgee	ND	20	75	95	65	52
SW Bundaberg	ND	ND	90	100	53	62
SW Burdekin-Haughton	ND	ND	100	100	93	108
SW Dawson Valley	ND	ND	81	100	69	72
SW Eton Water	ND	ND	ND	ND	48	33
SW Mareeba-Dimbulah	ND	ND	70	100	62	65
SW Mary River	ND	ND	85	100	50	64
SW Nogoia Mackenzie	2	1	80	100	92	112
SW St George	ND	ND	90	90	99	95
Central Irrigation	ND	100	NA	99	73	72
First Mildura	ND	100	NA	100	69	58
G-MW Murray Valley	ND	100	NA	96	100	103
G-MW Shepparton	ND	100	NA	97	93	164
G-MW Central Goulburn	ND	100	NA	95	86	84
G-MW Rochester	ND	100	NA	97	95	93
G-MW Pyramid-Boort	ND	100	NA	97	88	97
G-MW Torrumbarry	ND	100	NA	96	131	115
G-MW Swan Hill Pumped	ND	100	NA	96	64	70
SRW Bacchus Marsh	ND	100	NA	98	82	65
SRW Macalister	ND	100	NA	97	114	123
SRW Werribee	ND	100	NA	98	74	64
Wimmera-Mallee	ND	50	71	83	27	13
Ord Irrigation	ND	100	NA	100	42	51
Harvey Water	ND	100	NA	80	71	60
Average	2	78	71	96	76	71
Business totals						
SunWater (Qld)	2	ND	ND	ND	73	79
Goulburn Murray (Vic)	100	100	ND	97	68	ND

Graph 35.G1 - Reliability of Water Supply
 (Sorted by delivery of high security entitlement)



Graph 35.G2 - Water Deliveries Relative to Water Entitlement

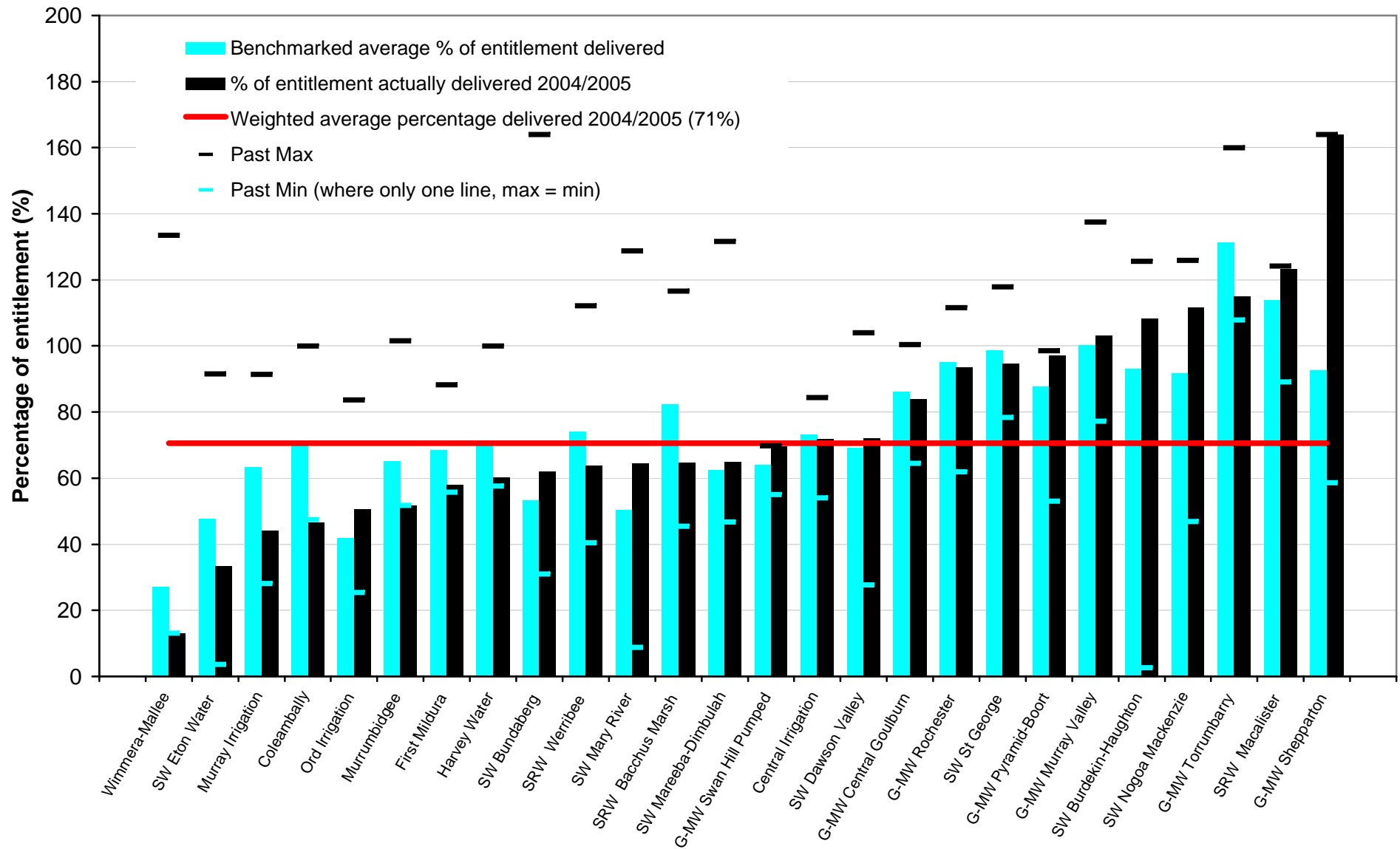
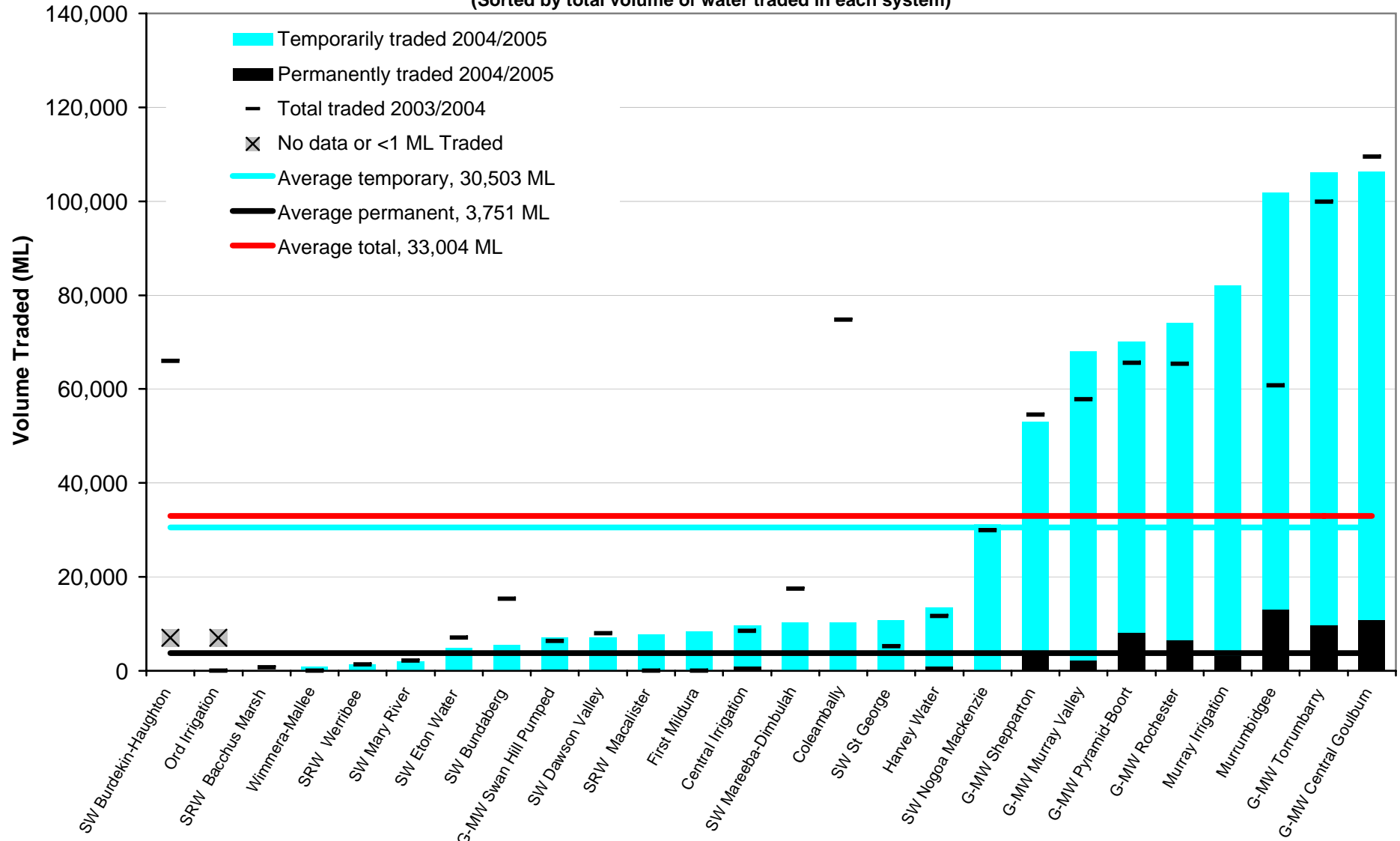


Table 36 - Water Trading - 2004/2005

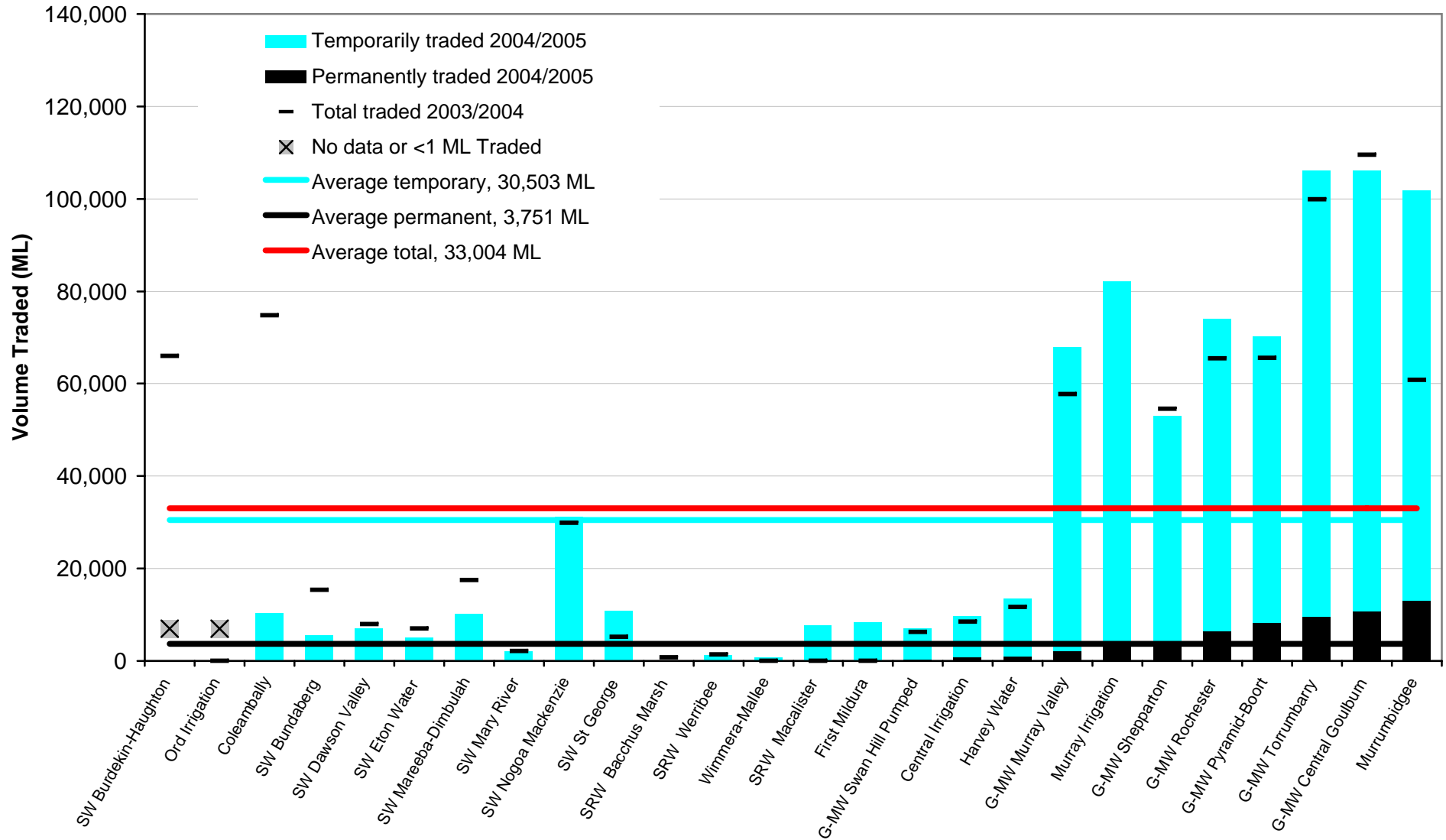
System	W4: Water Trading											Supporting Descriptor			
	Total Transferable Entitlement (not including groundwater) (ML)	Within the Area of the Business			Outside the Area of the Business						Value of Water Traded				
		T2-W.5	T2-W.5	T2-W.5	T2-W.6	T2-E.18	T2-E.17	T2-E.18	T2-E.17	T2-W.8	T2-W.7	T1-64	T1-64	T1-64	T1-64
		Permitted Within the Area of the Business	Internal Transfers		Permitted Beyond the Area of the Business	Net Trading Gain as Volume (negative means net loss)		Net Trading Gain as Percentage of Entitlement (negative means net loss)		Ability to Trade Distribution System Capacity Share	Broker Service by Provider?	Average Price for Season	Peak Price for Season	Average Price for Season	Peak Price for Season
	Permanent (ML)	Temporary (ML)		Permanent (ML)	Temporary (ML)	Permanent (%)	Temporary (%)				Permanent (\$/ML)	Permanent (\$/ML)	Temporary (\$/ML)	Temporary (\$/ML)	
Coleambally	489,872	Y	0	ND	Y	0	1,355	0.00	0.28	N	Y	600	700	40	60
Murray Irrigation	1,479,000	Y	2,841	66,729	Y	-408	12,143	-0.03	0.82	N	Y	553	600	73	200
Murrumbidgee	1,187,803	Y	8,459	57,220	Y	-3,684	-8,600	-0.31	-0.72	N	ND	1,476	1,600	70	108
SW Bundaberg	183,060	Y	ND	5,469	N	ND	ND	ND	ND	N	ND	ND	ND	ND	ND
SW Burdekin-Haughton	568,684	Y	ND	ND	N	ND	ND	ND	ND	N	ND	ND	ND	ND	ND
SW Dawson Valley	52,888	Y	ND	7,125	N	ND	ND	ND	ND	N	Y	ND	ND	ND	ND
SW Eton Water	51,257	Y	ND	4,934	Y	ND	ND	ND	ND	N	ND	ND	ND	ND	ND
SW Mareeba-Dimbulah	150,689	Y	ND	10,171	N	ND	ND	ND	ND	N	Y	ND	ND	ND	ND
SW Mary River	40,949	Y	ND	2,091	N	ND	ND	ND	ND	N	ND	ND	ND	ND	ND
SW Nogo Mackenzie	167,195	Y	ND	31,276	N	ND	ND	ND	ND	N	Y	ND	ND	ND	ND
SW St George	71,761	Y	ND	10,797	N	ND	ND	ND	ND	N	ND	ND	ND	ND	ND
Central Irrigation	160,346	Y	ND	ND	Y	420	-7,201	0.26	-4.49	ND	Y	1,300	1,400	40	80
First Mildura	82,097	Y	61	1,765	Y	-190	-5,572	-0.23	-6.79	Y	ND	ND	ND	ND	ND
G-MW Murray Valley	259,368	Y	1,026	21,336	Y	-569	21,191	-0.22	8.17	N	Y	1,040	1,075	52	89
G-MW Shepparton	177,111	Y	502	8,895	Y	-2,638	-15,589	-1.49	-8.80	N	Y	1,136	1,200	60	103
G-MW Central Goulburn	382,149	Y	2,497	27,570	Y	-7,626	8,051	-2.00	2.11	N	Y	1,136	1,200	60	103
G-MW Rochester	205,286	Y	1,131	13,638	Y	-4,167	11,874	-2.03	5.78	N	Y	1,136	1,200	60	103
G-MW Pyramid-Boort	220,763	Y	3,999	10,111	Y	-3,207	-1,832	-1.45	-0.83	N	Y	1,136	1,200	60	103
G-MW Torrumbarry	333,551	Y	2,302	20,886	Y	-6,510	49,851	-1.95	14.95	ND	Y	1,160	1,250	60	100
G-MW Swan Hill Pumped	30,638	Y	0	708	Y	-153	-4,605	-0.50	-15.03	ND	Y	1,160	1,250	60	100
SRW Bacchus Marsh	3,661	Y	ND	71	Y	-6	-67	-0.16	-1.83	N	ND	ND	ND	ND	ND
SRW Macalister	117,874	Y	87	7,674	N	ND	ND	ND	ND	N	ND	ND	ND	ND	ND
SRW Werribee	8,825	Y	0	1,094	Y	6	77	0.07	0.87	N	ND	ND	ND	146	200
Wimmera-Mallee	28,160	Y	40	387	Y	ND	-350	ND	-1.24	N	ND	ND	ND	ND	ND
Ord Irrigation	335,000	Y	0	0	N	0	0	0.00	0.00	N	ND	0	0	0	0
Harvey Water *	108,736	Y	985	9,505	Y	0	-3,000	0.00	-2.76	ND	Y	150	450	15	25
Total	6,896,723		23,930	319,452		-28,732	57,726								
Average								-0.63	-0.56			1,165	1,249	61	111
Business totals															
SunWater (Old)	1,558,484	Y	ND	190,598	N	ND	ND	ND	ND	N	Y	ND	ND	ND	ND
Goulburn Murray (Vic)	1,928,235	Y	ND	ND	Y	ND	ND	ND	ND	N	Y	ND	ND	ND	ND
Statistical analysis															
Positive responses		26			17					1	14	12	12	13	13
Negative responses		0			9					21	0				
Total responses		26	16	23	26					22	14	12	12	13	13
% of responses positive		100%			65%					5%	100%				
% of 26 systems positive		100%			65%					4%	54%	46%	46%	50%	50%

* Harvey Water has three districts, each with very different pricing profiles: Harvey \$450; Waroona \$200; Collie \$35.

Graph 36.G1 - Total Water Traded Inside and Outside the Business
(Sum of all Trades Irrespective of Direction)
(Sorted by total volume of water traded in each system)



Graph 36.G2 - Total Water Traded Inside and Outside the Business
(Sum of all Trades Irrespective of Direction)
(Sorted by volume of water permanently traded in each system)



**Graph 36.G3 - Total Water Traded Inside and Outside the Business
(Sum of all Trades Irrespective of Direction)
(Sorted by volume of water temporarily traded in each system)**

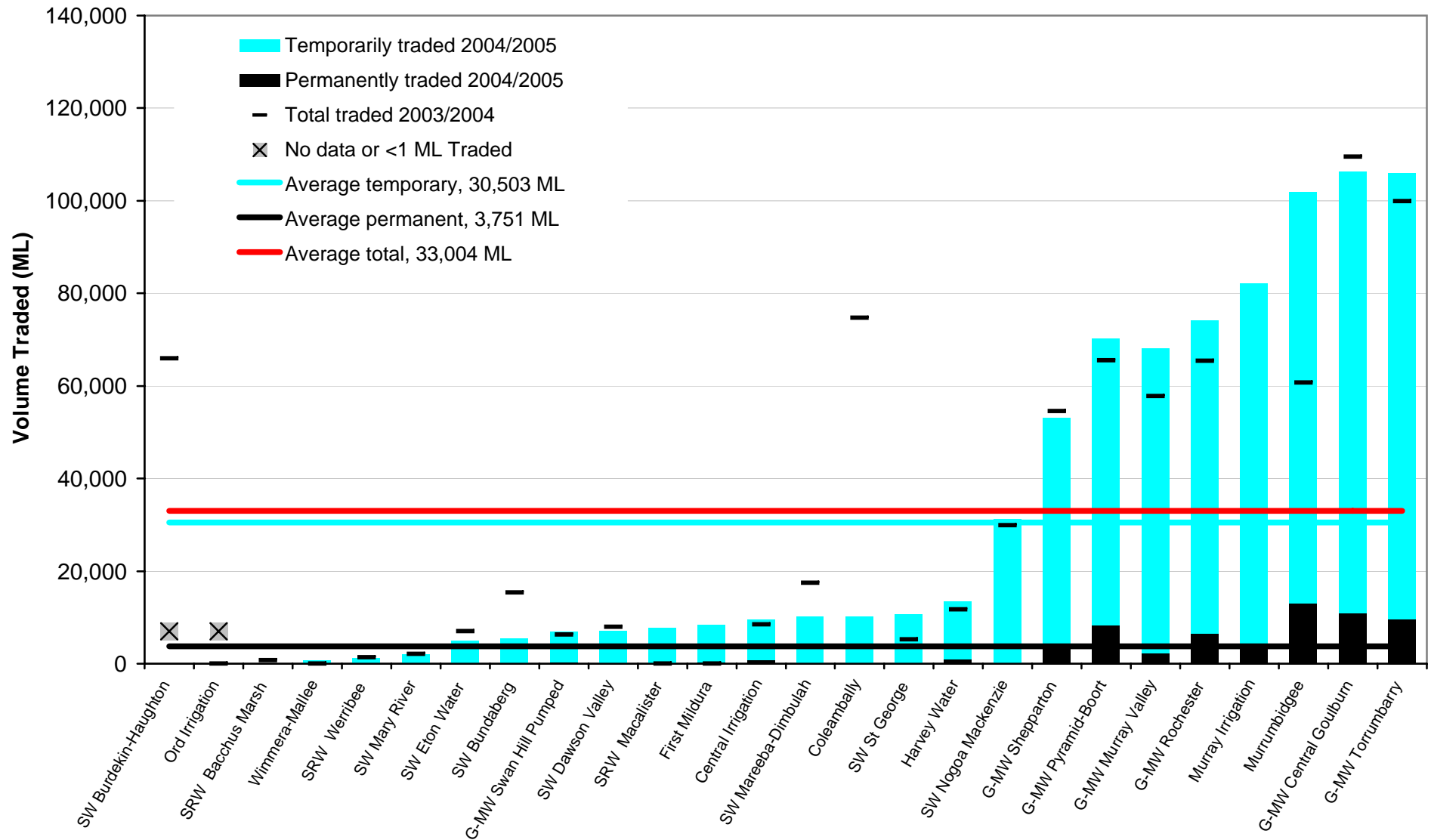


Table 37 - Stakeholder Involvement in Decision Making - 2004/2005

C1: Customer Involvement in Decision Making									
T2-C.1: The roles played by customers in management of the business.									
System	T2-C.1: Customer Participation in development of:								
	Organisation Business Plans	Business management	Setting of charges	Irrigation Supply Operational Plans	Drainage Strategies	Environmental Management Strategies	Land and Water Management Strategies	Other	"Other" Described
Coleambally	Y	Y	Y	Y	Y	Y	Y	Y	Groundwater and Salinity management.
Murray Irrigation	Y	Y	Y	Y	Y	Y	Y		
Murrumbidgee	Y		Y	Y	Y	Y	Y	Y	Customers/Shareholders are Directors of the Company
SW Bundaberg			Y	Y		Y		Y	Renewals Program, Bundaberg Customer Council
SW Burdekin-Haughton			Y	Y	Y	Y	Y	Y	Burdekin Irrigation Area Committee
SW Dawson Valley			Y	Y	Y	Y		Y	
SW Eton Water			Y	Y	Y	Y		Y	Mackay Customer Council
SW Mareeba-Dimbulah		Y	Y	Y	Y	Y		Y	Customer Council meetings
SW Mary River			Y	Y	Y	Y		Y	Renewals program
SW Nogoia Mackenzie			Y	Y	Y	Y			
SW St George			Y	Y	Y	Y		Y	
Central Irrigation	Y	Y	Y	Y	Y	Y	Y	Y	All aspects of our operation have customer involvement
First Mildura	Y	Y	Y	Y	Y	Y	Y		
G-MW Murray Valley	Y	Y	Y	Y	Y	Y	Y	Y	Customer Service Agreements, Communication Strategies, Asset Replacement Plans
G-MW Shepparton	Y	Y	Y	Y	Y	Y	Y	Y	Customer Services Agreement
G-MW Central Goulburn	Y	Y	Y	Y	Y	Y	Y	Y	Customer Services Agreement
G-MW Rochester	Y	Y	Y	Y	Y	Y	Y	Y	Customer Services Agreement
G-MW Pyramid-Boort	Y	Y	Y	Y	Y	Y	Y	Y	Customer Services Agreement
G-MW Torrumbarry	Y	Y	Y	Y	Y	Y	Y	Y	Customer Services Agreement
G-MW Swan Hill Pumped	Y	Y	Y	Y	Y	Y	Y	Y	Customer Services Agreement
SRW Bacchus Marsh	Y		Y	Y					
SRW Macalister	Y		Y	Y	Y	Y	Y	Y	Prices
SRW Werribee	Y		Y	Y	Y	Y			
Wimmera-Mallee	Y	Y	Y	Y	Y	Y	Y		
Ord Irrigation	Y		Y	Y	Y	Y	Y		
Harvey Water	Y		Y	Y	Y				
Statistical analysis									
Positive responses	18	13	26	26	22	24	16	18	
% of 26 systems positive	69%	50%	100%	100%	85%	92%	62%	69%	

Table 38 - Water Delivery Standards - 2004/2005

C2: Water Delivery Standards of Service												
Documentation of Agreed Targets for Standards of Service												
Are agreed customer service standards documented?												
The elements included in the standards of service agreed with customers of the business.												
System	Business has a Customer Service Agreement	% Progress Towards ISO 9001 Certification	Water Ordering Frequency and Procedures	Timing of Delivery Relative to Order Placement	Delivery Flow Rates	Delivery Water Quality	Water Pressure / Head at the Farm Gate	Supply Interruptions	Customer Information / Feedback	Complaints Handling Response Standards	Other	"Other" Described
	T2-C.2	T2-C.4	T2-C.3	T2-C.3	T2-C.3	T2-C.3	T2-C.3	T2-C.3	T2-C.3	T2-C.3	T2-C.3	
Coleambally	Yes	50	Y	Y		Y	Y			Y		Supply Interruptions: Timing, Duration and Frequency
Murray Irrigation	Yes	100	Y	Y	Y		Y			Y		
Murrumbidgee	No	None										
SW Bundaberg	Yes	100			Y			Y	Y	Y		
SW Burdekin-Haughton	Yes	100	Y		Y		Y	Y	Y	Y		
SW Dawson Valley	Yes	100	Y	Y	Y			Y	Y	Y		
SW Eton Water	Yes	100			Y			Y	Y	Y		
SW Mareeba-Dimbulah	Yes	100	Y		Y			Y	Y	Y	Y	
SW Mary River	Yes	100						Y	Y	Y		
SW Nogoa Mackenzie	Yes	100	Y					Y	Y	Y		
SW St George	Yes	100	Y	Y	Y			Y	Y	Y		
Central Irrigation	No	None										
First Mildura	Yes	None	Y	Y		Y			Y	Y		
G-MW Murray Valley	Yes	None	Y	Y	Y	Y	Y		Y	Y		
G-MW Shepparton	Yes	None	Y	Y	Y		Y	Y	Y	Y		
G-MW Central Goulburn	Yes	None	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pricing policy, Over-use policy, A number of service schedules
G-MW Rochester	Yes	None	Y	Y	Y	Y	Y		Y	Y		
G-MW Pyramid-Boort	Yes	None	Y	Y	Y	Y	Y	Y	Y	Y		
G-MW Torrumbarry	Yes	None	Y	Y	Y	Y	Y		Y			
G-MW Swan Hill Pumped	Yes	None	Y	Y	Y	Y			Y			
SRW Bacchus Marsh	Yes	None	Y	Y								
SRW Macalister	Yes	None	Y	Y								
SRW Werribee	Yes	None	Y	Y								
Wimmera-Mallee	Yes	None	Y	Y	Y	Y	Y	Y	Y	Y		
Ord Irrigation	Yes	None	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Harvey Water	Yes	None	Y	Y	Y	Y		Y	Y	Y	Y	Land Access Asset management services
Statistical analysis												
Positive responses	24	10	21	18	17	11	11	14	19	18	4	
% of 26 systems positive	92%	38%	81%	69%	65%	42%	42%	54%	73%	69%	15%	

Table 39 - Quality Assurance Certification - 2004/2005

System	C2: Standards of Service							
	Does the business have ISO 9001 accreditation, or other quality assurance accreditation?							
	Organisation has or is working towards a certified QA system	% progress towards ISO 9001 certification	Elements of Business Certified or Working Towards Being Certified Using ISO 9001					
			Field Operations	% Towards Completion	Administration and Technical Services	% Towards Completion	Construction and Maintenance	% Towards Completion
T2-C.4	T2-C.4	T2-C.4	T2-C.4	T2-C.4	T2-C.4	T2-C.4	T2-C.4	
Coleambally	No	50	ND	ND	ND	ND	ND	ND
Murray Irrigation	Yes	100	Y	100	Y	100	Y	100
Murrumbidgee	No	NA	NA	NA	NA	NA	NA	NA
SW Bundaberg	Yes	100	Y	100	Y	100	Y	100
SW Burdekin-Haughton	Yes	100	Y	100	Y	100	Y	100
SW Dawson Valley	Yes	100	Y	100	Y	100	Y	100
SW Eton Water	Yes	100	Y	100	Y	100	Y	100
SW Mareeba-Dimbulah	Yes	100	Y	100	Y	100	Y	100
SW Mary River	Yes	100	Y	100	Y	100	Y	100
SW Nogo Mackenzie	Yes	100	Y	100	Y	100	Y	100
SW St George	Yes	100	Y	100	Y	100	Y	100
Central Irrigation	No	NA	NA	NA	NA	NA	NA	NA
First Mildura	No	NA	NA	NA	NA	NA	NA	NA
G-MW Murray Valley	No	NA	NA	NA	NA	NA	NA	NA
G-MW Shepparton	No	NA	NA	NA	NA	NA	NA	NA
G-MW Central Goulburn	No	NA	NA	NA	NA	NA	NA	NA
G-MW Rochester	No	NA	NA	NA	NA	NA	NA	NA
G-MW Pyramid-Boort	No	NA	NA	NA	NA	NA	NA	NA
G-MW Torrumbarry	No	NA	NA	NA	NA	NA	NA	NA
G-MW Swan Hill Pumped	No	NA	NA	NA	NA	NA	NA	NA
SRW Bacchus Marsh	No	NA	NA	NA	NA	NA	NA	NA
SRW Macalister	No	NA	NA	NA	NA	NA	NA	NA
SRW Werribee	No	NA	NA	NA	NA	NA	NA	NA
Wimmera-Mallee	No	NA	NA	NA	NA	NA	NA	NA
Ord Irrigation	No	NA	NA	NA	NA	NA	NA	NA
Harvey Water	No	NA	NA	NA	NA	NA	NA	NA
Statistical analysis								
Positive responses	9		9		9		9	
% of 26 systems positive	35%		35%		35%		35%	

Table 40 - Water Ordering System and Expected Performance - 2004/2005

System	C3: Water Delivery Performance							
	Documentation of Standard of Service Achievements							
	Proportion of customers in each type of ordering system					Delivery achievements		
	T2-C.5	T2-C.5	T2-C.5	T2-C.5	T2-C.5	T2-C.6	T1-81	T2-C.7
	On Demand	On Demand with orders	Customer Scheduled	Water Provider Scheduled	Rostered	Minimum Expected Time Between Order and Delivery	Number of Individual Supply Points to Irrigation Customers for which Water Must be Ordered	Portion of Orders Received with Required Notice Delivered by Agreed Date
(%)	(%)	(%)	(%)	(%)	(days)	(number)	(%)	
Coleambally	8	86	0	0	6	1.0	700	98
Murray Irrigation	0	100	0	0	0	4.0	3,773	99
Murrumbidgee	2	5	40	50	3	2.0	4,028	98
SW Bundaberg	100	0	0	0	0	0.0	ND	100
SW Burdekin-Haughton	0	60	0	40	0	2.0	1,140	100
SW Dawson Valley	0	75	0	25	0	7.0	366	99
SW Eton Water	0	100	0	0	0	0.5	635	ND
SW Mareeba-Dimbulah	0	90	0	0	10	2.0	1,954	ND
SW Mary River	98	2	0	0	0	0.0	ND	ND
SW Nogoia Mackenzie	15	85	0	0	0	3.5	457	100
SW St George	0	100	0	0	0	1.0	390	98
Central Irrigation	0	100	0	0	0	0.0	2,275	100
First Mildura	0	100	0	0	0	2.0	1,206	ND
G-MW Murray Valley	0	0	0	100	0	4.0	3,156	93
G-MW Shepparton	0	0	0	100	0	4.0	2,542	ND
G-MW Central Goulburn	0	0	2	98	0	4.0	5,438	97
G-MW Rochester	0	0	0	100	0	4.0	2,493	ND
G-MW Pyramid-Boort	5	0	0	95	0	4.0	2,293	81
G-MW Torrumbarry	0	100	0	0	0	4.0	4,519	97
G-MW Swan Hill Pumped	0	0	100	0	0	3.0	792	99
SRW Bacchus Marsh	0	100	0	0	0	2.0	175	96
SRW Macalister	0	100	0	0	0	3.0	2,200	82
SRW Werribee	0	100	0	0	0	2.0	391	96
Wimmera-Mallee	0	0	0	100	0	4.0	ND	ND
Ord Irrigation	0	50	0	50	0	1.0	139	95
Harvey Water	26	0	0	74	0	3.0	1,315	99
Total							42,377	
Average - each ordering type	36	80	47	76	6	2.9		96
Average - across all ordering types	10	52	5	32	1			
Business totals								
SunWater (Qld)	40	60	0	0	0	ND	ND	ND
Goulburn Murray (Vic)	7	8	0	84	1	4.0	21,233	ND

Table 41 - Determining the Level of Customer Satisfaction - 2004/2005

System	C3: Water Delivery Performance	
	Level of Customer Satisfaction	
	T2-C.8	T2-C.9
	Formalised Customer Complaints Process	Customer Satisfaction Surveys
Coleambally	Y	Y
Murray Irrigation	Y	N
Murrumbidgee	Y	Y
SW Bundaberg	Y	Y
SW Burdekin-Haughton	Y	Y
SW Dawson Valley	Y	Y
SW Eton Water	Y	Y
SW Mareeba-Dimbulah	Y	Y
SW Mary River	Y	Y
SW Nogoia Mackenzie	Y	Y
SW St George	Y	Y
Central Irrigation	N	N
First Mildura	Y	Y
G-MW Murray Valley	Y	Y
G-MW Shepparton	Y	Y
G-MW Central Goulburn	Y	Y
G-MW Rochester	Y	Y
G-MW Pyramid-Boort	Y	Y
G-MW Torrumbarry	Y	Y
G-MW Swan Hill Pumped	Y	Y
SRW Bacchus Marsh	Y	Y
SRW Macalister	Y	Y
SRW Werribee	Y	Y
Wimmera-Mallee	Y	Y
Ord Irrigation	Y	Y
Harvey Water	Y	Y
Statistical analysis		
Positive responses	25	24
Negative responses	1	2
Total responses	26	26
% of responses positive	96%	92%
% of 26 systems positive	96%	92%

Table 42 - Extent and Nature of Heritage and Cultural Conservation - 2004/2005

System	S1: Heritage and Cultural Initiatives			
	T2-S.1	T2-S.2	T2-S.2	T2-S.2
	Heritage and Cultural Conservation Policy (Y or N)	Heritage Issue 1	Heritage Issue 2	Heritage Issue 3
Coleambally	N	Preservation of historical equipment, plans and documents.	Conservation of original markers and survey points.	Site surveys for artefacts prior to major earthworks.
Murray Irrigation	N	Development Applications	Nil	Nil
Murrumbidgee	N	Aboriginal Sites	Settlement History	ND
SW Bundaberg	N	ND	ND	ND
SW Burdekin-Haughton	N	ND	ND	ND
SW Dawson Valley	N	ND	ND	ND
SW Eton Water	N	ND	ND	ND
SW Mareeba-Dimbulah	N	ND	ND	ND
SW Mary River	N	ND	ND	ND
SW Nogoia Mackenzie	N	ND	ND	ND
SW St George	N	Investigating effect on indigenous heritage of planned extensions to scheme.	ND	ND
Central Irrigation	N	Preservation of Barmera Office which is listed under the National Trust	Preserving Waikerie receiving basin	Restoration and preservation of furniture, objects and photographs
First Mildura	N	Psyche Bend	Kings Billabong P/S	ND
G-MW Murray Valley	N	Identification of archaeological sites prior to works	Consideration of those sites in design and construction	ND
G-MW Shepparton	N	Heritage impact studies are completed for any planned works	ND	ND
G-MW Central Goulburn	N	Retention of indigenous plant species	ND	ND
G-MW Rochester	N	Aboriginal heritage	historical heritage	Social issues of change
G-MW Pyramid-Boort	N	Archaeological sites identified before proceeding with work	Aboriginal sites / artefacts determined in consultation with AAV	ND
G-MW Torrumbarry	N	Archaeological sites identified before proceeding with work	Aboriginal sites & artefacts identified in consultation with AAV	ND
G-MW Swan Hill Pumped	N	Archaeological sites identified before proceeding with work	Aboriginal sites / artefacts determined in consultation with AAV	Salinity and salinisation
SRW Bacchus Marsh	N	ND	ND	ND
SRW Macalister	N	ND	ND	ND
SRW Werribee	N	ND	ND	ND
Wimmera-Mallee	Y	Native Title claims	Protection of known sites	
Ord Irrigation	N	Land Issues	Water quality	ND
Harvey Water	N	ND	ND	ND
Statistical summary				
Positive responses	1			
Negative responses	25			
Total responses	26			
% of responses positive	4%			
% of 26 systems positive	4%			

Table 43 - Provision of Recreational Facilities for the Community - 2004/2005

System	S2: Provision of Recreational Facilities for the Community							
	T2-S.3	T2-S.4	T2-S.6	T2-S.6	T2-S.6	T2-S.6	T2-S.6	
	Provision of Recreational Facilities	Presence of Specific Recreational Advisory Committee	Primary Means of Meeting Cost of Operating and Maintaining Recreation Facilities					"Other" Source of Funding Described
		Government Allocation	Separate Rate on Users	Cost Identified as Part of Standard Water Rates	Community Service Obligation built into Water Rates	Other		
Coleambally	N	N						
Murray Irrigation	N	N						
Murrumbidgee	N	N						
SW Bundaberg	N	N						
SW Burdekin-Haughton	Y	N					Y	Retained earnings from other than irrigation supplies.
SW Dawson Valley	N	N						
SW Eton Water	Y	N					Y	Retained earnings from other than Irrigation Supplies.
SW Mareeba-Dimbulah	N	N					Y	
SW Mary River	Y	N					Y	Camping fees
SW Nogo Mackenzie	Y	N					Y	
SW St George	Y	N						
Central Irrigation	N	N						
First Mildura	Y	N		Y				
G-MW Murray Valley	N	N						
G-MW Shepparton	Y	N					Y	
G-MW Central Goulburn	N	N					Y	
G-MW Rochester	Y	N					Y	
G-MW Pyramid-Boort	N	N						
G-MW Torrumbarry	N	N						
G-MW Swan Hill Pumped	N	N						
SRW Bacchus Marsh	N	N						
SRW Macalister	Y	N					Y	
SRW Werribee	N	N						
Wimmera-Mallee	Y	Y					Y	
Ord Irrigation	N	N						
Harvey Water	N	N						
Statistical analysis								
Negative responses	16	25						
Positive responses	10	1	0	1	0	6	5	
Total Responses	26	26						
% of 26 systems positive	38%	4%	0%	4%	0%	23%	19%	