



# Budget

**Table 1 (a) In-Kind Contributions From Parties (Dollars in '\$'000's)**

Participant	ACTUAL EXPENDITURE																GRAND TOTAL		
	99/00	00/01	01/02	01/02	Cumulative		02/03		03/04		04/05		05/06		Total	Agreement	Difference		
	YEAR 1	YEAR 2	YEAR 3	YEAR 3	Total to Date	Total to Date	Budget	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	7 Years	7 Years	7 Years		
	Actual	Actual	Actual	Agreement	Actual	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement					
<b>Brisbane City Council</b>																			
Salaries	147	11	12	28	170	84	28	28	28	28	28	28	28	28	282	196	86		
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Other	263	359	364	372	986	1,116	372	372	372	372	372	372	372	372	2,474	2,604	(130)		
<b>TOTAL</b>	<b>410</b>	<b>370</b>	<b>376</b>	<b>400</b>	<b>1,156</b>	<b>1,200</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>400</b>	<b>2,756</b>	<b>2,800</b>	<b>(44)</b>		
<b>Bureau of Meteorology</b>																			
Salaries	80	189	142	137	411	411	137	137	137	137	137	137	137	137	959	959	-		
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Other	160	358	293	284	811	852	284	284	284	284	284	284	284	284	1,947	1,988	(41)		
<b>TOTAL</b>	<b>240</b>	<b>547</b>	<b>435</b>	<b>421</b>	<b>1,222</b>	<b>1,263</b>	<b>421</b>	<b>421</b>	<b>421</b>	<b>421</b>	<b>421</b>	<b>421</b>	<b>421</b>	<b>421</b>	<b>2,906</b>	<b>2,947</b>	<b>(41)</b>		
<b>CSIRO Land &amp; Water</b>																			
Salaries	417	451	470	423	1,338	1,269	423	423	423	423	423	423	423	423	3,030	2,961	69		
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Other	552	598	623	561	1,773	1,683	561	561	561	561	561	561	561	561	4,017	3,927	90		
<b>TOTAL</b>	<b>969</b>	<b>1,049</b>	<b>1,093</b>	<b>984</b>	<b>3,111</b>	<b>2,952</b>	<b>984</b>	<b>984</b>	<b>984</b>	<b>984</b>	<b>984</b>	<b>984</b>	<b>984</b>	<b>984</b>	<b>7,047</b>	<b>6,888</b>	<b>159</b>		
<b>Department of Land &amp; Water Conservation, NSW</b>																			
Salaries	107	77	167	151	351	453	151	151	151	151	151	151	151	151	955	1,057	(102)		
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Other	74	58	112	102	244	306	102	102	102	102	102	102	102	102	652	714	(62)		
<b>TOTAL</b>	<b>181</b>	<b>135</b>	<b>279</b>	<b>253</b>	<b>595</b>	<b>759</b>	<b>253</b>	<b>253</b>	<b>253</b>	<b>253</b>	<b>253</b>	<b>253</b>	<b>253</b>	<b>253</b>	<b>1,607</b>	<b>1,771</b>	<b>(164)</b>		
<b>Department of Natural Resources &amp; Mines, Qld.</b>																			
Salaries	110	94	447	180	651	540	180	180	180	180	180	180	180	180	1,371	1,260	111		
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Other	189	216	727	338	1,132	1,014	338	338	338	338	338	338	338	338	2,484	2,366	118		
<b>TOTAL</b>	<b>299</b>	<b>310</b>	<b>1,174</b>	<b>518</b>	<b>1,783</b>	<b>1,554</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>518</b>	<b>3,855</b>	<b>3,626</b>	<b>229</b>		

**Table 1 (b) In-Kind Contributions From Parties (Dollars in \$'000's)**

Participant	ACTUAL EXPENDITURE				Cumulative		02/03		03/04		04/05		05/06		GRAND TOTAL		
	99/00	00/01	01/02	01/02	Total to Date		YEAR 4		YEAR 5		YEAR 6		YEAR 7		Total	Agreement	Difference
	YEAR 1	YEAR 2	YEAR 3	YEAR 3	Actual	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	7 Years	7 Years	7 Years
<b>Department of Natural Resources &amp; Environment, Vic</b>																	
Salaries	75	318	194	187	587	561	187	187	187	187	187	187	187	187	1,335	1,309	26
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	122	356	236	230	714	690	230	230	230	230	230	230	230	230	1,634	1,610	24
<b>TOTAL</b>	<b>197</b>	<b>674</b>	<b>430</b>	<b>417</b>	<b>1,301</b>	<b>1,251</b>	<b>417</b>	<b>417</b>	<b>417</b>	<b>417</b>	<b>417</b>	<b>417</b>	<b>417</b>	<b>417</b>	<b>2,969</b>	<b>2,919</b>	<b>50</b>
<b>Griffith University</b>																	
Salaries	200	237	255	230	692	686	231	231	231	231	231	231	231	231	1,616	1,610	6
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	214	344	317	291	875	869	292	292	292	292	292	292	292	292	2,043	2,037	6
<b>TOTAL</b>	<b>414</b>	<b>581</b>	<b>572</b>	<b>521</b>	<b>1,567</b>	<b>1,555</b>	<b>523</b>	<b>523</b>	<b>523</b>	<b>523</b>	<b>523</b>	<b>523</b>	<b>523</b>	<b>523</b>	<b>3,659</b>	<b>3,647</b>	<b>12</b>
<b>Melbourne Water</b>																	
Salaries	69	93	100	76	262	228	76	76	76	76	76	76	76	76	566	532	34
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	93	236	244	226	573	678	226	226	226	226	226	226	226	226	1,477	1,582	(105)
<b>TOTAL</b>	<b>162</b>	<b>329</b>	<b>344</b>	<b>302</b>	<b>835</b>	<b>906</b>	<b>302</b>	<b>302</b>	<b>302</b>	<b>302</b>	<b>302</b>	<b>302</b>	<b>302</b>	<b>302</b>	<b>2,043</b>	<b>2,114</b>	<b>(71)</b>
<b>Monash University</b>																	
Salaries	334	257	292	270	883	810	270	270	270	270	270	270	270	270	1,963	1,890	73
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	384	305	340	318	1,029	954	318	318	318	318	318	318	318	318	2,301	2,226	75
<b>TOTAL</b>	<b>718</b>	<b>562</b>	<b>632</b>	<b>588</b>	<b>1,912</b>	<b>1,764</b>	<b>588</b>	<b>588</b>	<b>588</b>	<b>588</b>	<b>588</b>	<b>588</b>	<b>588</b>	<b>588</b>	<b>4,264</b>	<b>4,116</b>	<b>148</b>
<b>Goulburn-Murray Water</b>																	
Salaries	18	16	23	22	57	66	22	22	22	22	11	11	11	11	123	132	(9)
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	52	50	59	57	161	171	47	47	48	48	24	24	24	24	304	314	(10)
<b>TOTAL</b>	<b>70</b>	<b>66</b>	<b>82</b>	<b>79</b>	<b>218</b>	<b>237</b>	<b>69</b>	<b>69</b>	<b>70</b>	<b>70</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>427</b>	<b>446</b>	<b>(19)</b>

# Budget

**Table 1 (c) In-Kind Contributions From Parties (Dollars in '\$'000's)**

Participant	ACTUAL EXPENDITURE				Cumulative		02/03		03/04		04/05		05/06		GRAND TOTAL			
	99/00	00/01	01/02	01/02	Total to Date		YEAR 4		YEAR 5		YEAR 6		YEAR 7		Total	Agreement	Difference	
	YEAR 1	YEAR 2	YEAR 3	YEAR 3	Actual	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	7 Years	7 Years	7 Years	
	Actual	Actual	Actual	Agreement														
<b>The University of Melbourne</b>																		
Salaries	112	306	184	200	602	600	200	200	200	200	200	200	200	200	1,402	1,400	2	
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other	116	316	190	206	622	618	206	206	206	206	206	206	206	206	1,446	1,442	4	
<b>TOTAL</b>	<b>228</b>	<b>622</b>	<b>374</b>	<b>406</b>	<b>1,224</b>	<b>1,218</b>	<b>406</b>	<b>406</b>	<b>406</b>	<b>406</b>	<b>406</b>	<b>406</b>	<b>406</b>	<b>406</b>	<b>2,848</b>	<b>2,842</b>	<b>6</b>	

**Total In-Kind Contributions**

Salaries	1,669	2,049	2,286	1,904	6,004	5,708	1,905	1,905	1,905	1,905	1,894	1,894	1,894	1,894	13,602	13,306	296
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	2,219	3,196	3,505	2,985	8,920	8,951	2,976	2,976	2,977	2,977	2,953	2,953	2,953	2,953	20,779	20,810	(31)
<b>Grand Total In-Kind (T1)</b>	<b>3,888</b>	<b>5,245</b>	<b>5,791</b>	<b>4,889</b>	<b>14,924</b>	<b>14,659</b>	<b>4,881</b>	<b>4,881</b>	<b>4,882</b>	<b>4,882</b>	<b>4,847</b>	<b>4,847</b>	<b>4,847</b>	<b>4,847</b>	<b>34,381</b>	<b>34,116</b>	<b>265</b>

**Table 2** Cash Contributions (Dollars in \$'000's)

	ACTUAL EXPENDITURE																GRAND TOTAL		
	99/00	00/01	01/02	01/02	Cumulative		02/03		03/04		04/05		05/06		Total	Agreement	Difference		
	YEAR 1	YEAR 2	YEAR 3	YEAR 3	Total to Date	Total to Date	YEAR 4	YEAR 4	YEAR 5	YEAR 5	YEAR 6	YEAR 6	YEAR 7	YEAR 7	7 Years	7 Years	7 Years		
<b>Partners</b>	Actual	Actual	Actual	Agreement	Actual	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement					
Brisbane City Council	50	50	50	50	150	150	50	50	50	50	50	50	50	50	350	350	-		
Bureau of Meteorology	50	50	50	50	150	150	50	50	50	50	50	50	50	50	350	350	-		
CSIRO Land & Water	100	100	100	100	300	300	100	100	100	100	100	100	100	100	700	700	-		
Dept. Land & Water Conservation, NSW	100	100	100	100	300	300	100	100	100	100	100	100	100	100	700	700	-		
Dept. Natural Resources & Mines, Qld.	100	100	100	100	300	300	100	100	100	100	100	100	100	100	700	700	-		
Dept. Natural Resources & Environment, Vic.	100	100	100	100	300	300	100	100	100	100	100	100	100	100	700	700	-		
Griffith University	50	50	50	50	150	150	50	50	50	50	50	50	50	50	350	350	-		
Melbourne Water	50	50	50	50	150	150	50	50	50	50	50	50	50	50	350	350	-		
Monash University	100	100	100	100	300	300	100	100	100	100	100	100	100	100	700	700	-		
Murray-Darling Basin Commission	50	50	50	50	150	150	50	50	50	50	50	50	50	50	350	350	-		
Goulburn-Murray Water	150	150	150	150	450	450	150	150	150	150	150	150	150	150	1,050	1,050	-		
Southern Rural Water	30	30	30	30	90	90	30	30	30	30	30	30	30	30	210	210	-		
Wimmera Mallee Water	60	60	60	60	180	180	60	60	60	60	60	60	60	60	420	420	-		
The University of Melbourne	50	50	50	50	150	150	50	50	50	50	50	50	50	50	350	350	-		
<b>Total Cash from Participants</b>	<b>1,040</b>	<b>1,040</b>	<b>1,040</b>	<b>1,040</b>	<b>3,120</b>	<b>3,120</b>	<b>1,040</b>	<b>1,040</b>	<b>1,040</b>	<b>1,040</b>	<b>1,040</b>	<b>1,040</b>	<b>1,040</b>	<b>1,040</b>	<b>7,280</b>	<b>7,280</b>	<b>-</b>		
<b>Other Cash</b>																			
Non-participants	78	83	30	-	191	-	-	-	-	-	-	-	-	-	191	-	191		
External Grants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Contract Research <sup>1</sup>	32	152	30	1,000	214	2,000	1,400	1,400	1,800	1,800	2,300	2,300	2,600	2,600	8,314	10,100	(1,786)		
Commercialisation	61	-	118	-	179	-	-	-	-	-	-	-	-	-	179	-	179		
Education	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Interest	66	118	105	-	289	-	-	-	-	-	-	-	-	-	289	-	289		
<b>Total Other Cash</b>	<b>237</b>	<b>353</b>	<b>283</b>	<b>1,000</b>	<b>873</b>	<b>2,000</b>	<b>1,400</b>	<b>1,400</b>	<b>1,800</b>	<b>1,800</b>	<b>2,300</b>	<b>2,300</b>	<b>2,600</b>	<b>2,600</b>	<b>8,973</b>	<b>10,100</b>	<b>(1,127)</b>		
<b>CRC Grant</b>	2,242	2,600	2,600	2,600	7,442	7,442	2,600	2,600	2,600	2,600	2,600	2,600	1,000	1,000	16,242	16,242	-		
<b>Total CRC Cash Contribution (T2)</b>	<b>3,519</b>	<b>3,993</b>	<b>3,923</b>	<b>4,640</b>	<b>11,435</b>	<b>12,562</b>	<b>5,040</b>	<b>5,040</b>	<b>5,440</b>	<b>5,440</b>	<b>5,940</b>	<b>5,940</b>	<b>4,640</b>	<b>4,640</b>	<b>32,495</b>	<b>33,622</b>	<b>(1,127)</b>		
Cash From Previous Year	527	1,775	2,118				1,388		1,388		1,388		1,388						
Less Unspent Balance	1,775	2,118	1,388				1,388		1,388		1,388		1,388						
<b>Total Cash Expenditure (T3)</b>	<b>2,271</b>	<b>3,650</b>	<b>4,653</b>	<b>4,640</b>	<b>10,574</b>	<b>12,562</b>	<b>5,040</b>	<b>5,040</b>	<b>5,440</b>	<b>5,440</b>	<b>5,940</b>	<b>5,940</b>	<b>4,640</b>	<b>4,640</b>	<b>31,634</b>	<b>33,622</b>	<b>(1,988)</b>		

## Budget

**Table 2** Cash Contributions (Dollars in \$'000's)

	ACTUAL EXPENDITURE				Cumulative Total to Date		02/03		03/04		04/05		05/06		GRAND TOTAL		
	99/00	00/01	01/02	01/02			YEAR 4		YEAR 5		YEAR 6		YEAR 7		Total	Agreement	Difference
	YEAR 1	YEAR 2	YEAR 3	YEAR 3	Actual	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	7 Years	7 Years	7 Years
	Actual	Actual	Actual	Agreement	Actual	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement	Budget	Agreement			
Salaries	1,232	2,067	2,349	2,472	5,648	6,692	2,685	2,685	2,898	2,898	3,165	3,165	2,472	2,472	16,868	17,912	(1,044)
Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	1,039	1,583	2,304	2,168	4,926	5,870	2,355	2,355	2,542	2,542	2,775	2,775	2,168	2,168	14,766	15,710	(944)
<b>Total Cash Expenditure (T3)</b>	<b>2,271</b>	<b>3,650</b>	<b>4,653</b>	<b>4,640</b>	<b>10,574</b>	<b>12,562</b>	<b>5,040</b>	<b>5,040</b>	<b>5,440</b>	<b>5,440</b>	<b>5,940</b>	<b>5,940</b>	<b>4,640</b>	<b>4,640</b>	<b>31,634</b>	<b>33,622</b>	<b>(1,988)</b>

Note: 1: See also Contract Research listed in chapter on "Utilisation and Application of Research".

**Table 3** Summary of Resources Applied to Activities of Centre (Dollars in \$'000's)

Grand Total Inkind Table 1 (T1)	3,888	5,245	5,791	4,889	14,924	14,659	4,881	4,881	4,882	4,882	4,847	4,847	4,847	4,847	34,381	34,116	265
Grand Total Cash Table 2 (T3)	2,271	3,650	4,653	4,640	10,574	12,562	5,040	5,040	5,440	5,440	5,940	5,940	4,640	4,640	31,634	33,622	(1,988)
Total Resources Applied to Activities of Centre (T1+T3)	6,159	8,895	10,444	9,529	25,498	27,221	9,921	9,921	10,322	10,322	10,787	10,787	9,487	9,487	66,015	67,738	(1,723)

**Allocation of Total Resources Applied to Activities of Centre Between Heads of Expenditure**

Total Salaries (Cash and In-Kind)	2,901	4,116	4,635	4,376	11,652	12,400	4,590	4,590	4,803	4,803	5,059	5,059	4,366	4,366	30,470	31,218	(748)
Total Capital (Cash and In-Kind)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Other (Cash and In-Kind)	3,258	4,779	5,809	5,153	13,846	14,821	5,331	5,331	5,519	5,519	5,728	5,728	5,121	5,121	35,545	36,520	(975)

**Table 4** Allocation of Resources Between Categories of Activities (Dollars in \$'000's)

Program	RESOURCE USAGE			
	\$ Cash (1)	\$ In-Kind	Contributed Staff (2)	Cash Funded Staff (2)
Research	2,338	3,502	20.56	22.70
Education	535	554	0.77	0.98
External Communication	1,187	1,347	2.01	2.61
Commercialisation/Tech.Transfer	276	290	0.50	0.65
Administration	317	98	0.30	2.13
<b>TOTAL</b>	<b>4,653</b>	<b>5,791</b>	<b>24.14</b>	<b>29.07</b>
	(T3)	(T1)		

(1) Cash from all sources, including CRC Program

(2) Person years, Professional and support staff

(3) Resources allocated to "Commercialisation / Technology Transfer" and "Education" also cover relevant Research Program / Project resources including part of time by contributed and funded staff under Research in columns 3 and 4.



# CRC for Catchment Hydrology

## Statement of Financial Performance

For the Year Ended 30 June 2002

	Note	2002 \$	2001 \$
<b>Revenue From Ordinary Activities</b>			
Commonwealth Grant		<b>2,600,000</b>	2,600,000
Interest		<b>104,740</b>	117,757
Other		<b>177,614</b>	234,747
<b>Expenses From Ordinary Activities</b>			
Salary and Related Expenses of Researchers		<b>(3,118,399)</b>	(2,718,719)
Operating Expenses of Researchers		<b>(1,534,595)</b>	(931,194)
Inkind Research Expenses		<b>(5,790,967)</b>	(5,245,746)
Profit / (Loss) From Ordinary Activities Before Income Tax Expense		<b>(7,561,607)</b>	(5,943,155)
Income Tax Expense		-	-
<b>Profit /(Loss) From Ordinary Activities After Income Tax Expense</b>		<b>(7,561,607)</b>	(5,943,155)
Accumulated losses at the beginning of the financial year		<b>(9,623,490)</b>	(3,680,335)
Accumulated losses at the end of the financial year		<b>(17,185,097)</b>	(9,623,490)

The above Statement of Financial Performance should be read in conjunction with the accompanying notes.



**CRC for Catchment Hydrology**  
**Statement of Financial Position** As at 30 June 2002

	Note	2002 \$	2001 \$
<b>Current Assets</b>			
Cash Assets	3(a)	1,540,345	2,047,100
Receivables	4	243,467	483,360
<b>Total Current Assets</b>		<b>1,783,812</b>	2,530,460
<b>Current Liabilities</b>			
Payables		22,264	38,271
Party Contributions in Advance		375,000	375,000
Total Liabilities		397,264	413,271
<b>Net Assets</b>		<b>1,386,548</b>	2,117,189
<b>Researchers' Funds</b>			
Contributions by Parties	2	18,571,645	11,740,679
Accumulated losses		(17,185,097)	(9,623,490)
		<b>1,386,548</b>	2,117,189

The above Statement of Financial Position should be read in conjunction with the accompanying notes.

# CRC for Catchment Hydrology

## Statement of Cash Flows For the Year Ended 30 June 2002

	Note	2002 \$	2001 \$
<b>Cash Flows From Operating Activities:</b>			
Receipts from the Commonwealth Government		2,600,000	2,600,000
Interest		105,971	117,801
Other Income		95,690	185,960
GST Inflows		415,989	329,569
GST Outflows		(432,904)	(404,626)
Payments for Research		(4,669,001)	(3,707,012)
<b>Net cash inflow / (outflow) from Operating Activities</b>	3(b)	<b>(1,884,255)</b>	(878,308)
<b>Cash Flows From Financing Activities:</b>			
Cash Contributions by Parties		1,377,500	1,065,000
<b>Net cash inflow / (outflow) from Financing Activities</b>		<b>1,377,500</b>	1,065,000
<b>Net Increase / (Decrease) in Cash Held</b>		<b>(506,755)</b>	186,692
Cash at the Beginning of the Financial Year		2,047,100	1,860,408
<b>Cash at the End of the Financial Year</b>	3(a)	<b>1,540,345</b>	2,047,100

The above Statement of Cash Flows should be read in conjunction with the accompanying notes.

**Note 1: Summary of Significant Accounting Policies**

---

This general purpose financial report has been prepared in accordance with Accounting Standards, other authoritative pronouncements of the Australian Accounting Standards Board, and Urgent Issues Group Consensus Views.

It is prepared in accordance with historical cost convention. Unless otherwise stated, the accounting policies adopted are consistent with the previous year.

**(a) Income Tax**

The Cooperative Research Centre for Catchment Hydrology (CRC) is an unincorporated Joint Venture and is defined as a Partnership for income tax purposes. The CRC does not lodge a Partnership tax return as it has been granted an exemption from doing so by the Australian Taxation Office, on the basis that all of the parties to the Joint Venture are tax exempt entities. As the CRC is not a separate tax paying entity it has not provided for income tax expense in its financial statements.

**(b) Commonwealth Grants**

Grants made by the Commonwealth of Australia under the terms of the Cooperative Research Centres Agreement have been included as revenue from ordinary activities in the Statement of Financial Performance.

**(c) Inkind Contributions**

Pursuant to an agreement between the parties, Inkind contributions to the Centre have been included in the Statement of Financial Performance as expenditure on behalf of the Centre. The agreed value of Inkind contributions has been credited to the parties' equity in the Joint Venture and is included in Researchers' Funds in the Statement of Financial Position.

**(d) Research and Development**

The Governing Board of the Centre have considered the requirements of Australian Accounting Standard 13 (AAS 13), Accounting for Research and Development and have resolved that none of the expenditure by the Centre meets the requirements of AAS 13 concerning deferral of expenditure to future years. Accordingly all expenditure has been recorded in the Statement of Financial Performance as an expense of ordinary activity.

---

# CRC for Catchment Hydrology

## Notes to the Financial Statements 30 June 2002

<b>Note 2 Contributions by Parties</b> (Excluding advance contributions)	Note	2002 \$	2001 \$
<b>Cash</b>			
Brisbane City Council		50,000	50,000
Bureau of Meteorology		50,000	50,000
CSIRO Land & Water		100,000	100,000
Department of Land & Water Conservation, NSW		100,000	100,000
Department of Natural Resources and Mines, Qld.		100,000	100,000
Department of Natural Resources & Environment, Vic.		100,000	100,000
Griffith University		50,000	50,000
Melbourne Water Corporation		50,000	50,000
Monash University		100,000	100,000
Murray-Darling Basin Commission		50,000	50,000
Goulburn-Murray Rural Water Authority		150,000	150,000
Gippsland & Southern Rural Water Authority		30,000	30,000
Wimmera-Mallee Rural Water Authority		60,000	60,000
The University of Melbourne		50,000	50,000
		<b>1,040,000</b>	1,040,000
<b>In-Kind</b>			
Brisbane City Council		375,896	369,930
Bureau of Meteorology		435,251	546,690
CSIRO Land & Water		1,092,683	1,049,438
Department of Land & Water Conservation, NSW		279,004	134,543
Department of Natural Resources and Mines, Qld.		1,173,895	310,330
Department of Natural Resources & Environment, Vic.		430,207	674,437
Griffith University		572,349	580,456
Melbourne Water Corporation		343,543	328,883
Monash University		632,296	562,420
Murray-Darling Basin Commission		-	-
Goulburn-Murray Rural Water Authority		82,313	66,273
Gippsland & Southern Rural Water Authority		-	-
Wimmera-Mallee Rural Water Authority		-	-
The University of Melbourne		373,530	622,347
		<b>5,790,967</b>	5,245,747
<b>Total Cash and In-Kind Contributions</b>			
Brisbane City Council		425,896	419,930
Bureau of Meteorology		485,251	596,690
CSIRO Land & Water		1,192,683	1,149,438
Department of Land & Water Conservation, NSW		379,004	234,543
Department of Natural Resources, Qld.		1,273,895	410,330
Department of Natural Resources & Environment, Vic.		530,207	774,437
Griffith University		622,349	630,456
Melbourne Water Corporation		393,543	378,883
Monash University		732,296	662,420
Murray-Darling Basin Commission		50,000	50,000
Goulburn-Murray Rural Water Authority		232,313	216,273
Gippsland & Southern Rural Water Authority		30,000	30,000
Wimmera-Mallee Rural Water Authority		60,000	60,000
The University of Melbourne		423,530	672,347
		<b>6,830,967</b>	6,285,747
Opening balance Party Contributions		11,740,679	5,454,932
Contributions this year, cash and inkind		6,830,967	6,285,747
Closing balance Party contributions		18,571,646	11,740,679

# CRC for Catchment Hydrology

## Notes to the Financial Statements 30 June 2002

<b>Note 3: Notes to the Statement of Cash Flows</b>	Note	<b>2002</b> \$	2001 \$
<b>(a) Reconciliation of Cash</b>			
For the purposes of the statement of cash flows, cash includes:			
(i) cash on hand and in at call deposits with banks or financial institutions; and			
(ii) cash held by CRC parties as part of unspent advances.			
Cash at the end of the year is shown in the Statement of Financial Position as:			
Cash Assets		<b>1,540,345</b>	2,047,100
<b>(b) Reconciliation of Loss from Ordinary Activities After Income Tax Expense to Net Cash Flows from Operating Activities</b>			
Loss from Ordinary Activities after Income Tax Expense		<b>(7,561,607)</b>	(5,943,155)
Non cash flows in Loss from Ordinary Activities after income tax:			
In-Kind expenditure		<b>5,790,967</b>	5,245,747
Changes in assets and liabilities:			
Increase / (Decrease) in Payables		<b>(16,007)</b>	(57,100)
(Increase) / Decrease in Receivables		<b>(97,608)</b>	(123,800)
Net cash provided by/(used in) Operating Activities		<b>(1,884,255)</b>	(878,308)
<b>Note 4: Receivables</b>			
Interest Receivable		<b>6,409</b>	7,641
Other Receivables		<b>237,058</b>	475,719
		<b>243,467</b>	483,360

# CRC for Catchment Hydrology

## Statement by Governing Board of Centre

---

In the opinion of the Governing Board of the CRC for Catchment Hydrology, the financial statements present fairly the sources of funding, the application of funding and the financial position of the Centre in accordance with applicable Accounting Standards, and in terms of clauses 4, 5.1, 5.2, 5.3, 9.1, 9.5 and 12.2 of the Commonwealth Agreement. In particular:

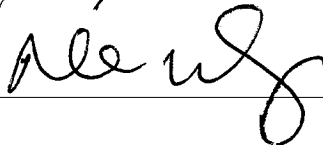
1. (a) The Researchers' Contributions were made in accordance with the Budget as specified in the Agreement and their total value has equalled or exceeded the Grant (Clause 4). The actual cash and in-kind contributions compared to the amounts committed in the Agreement are shown in Tables 1 and 2.  
(b) The valuation of In-kind contributions, including where appropriate, the use of salary multipliers has been in accordance with that specified in the Agreement and such valuations have been made on a fair and reasonable basis.  
(c) The Researcher has used the Grant and the Researchers' Contributions only for the Activities of the Centre and not for any other purpose (Clause 5.1)  
(d) A comparison of actual and agreement expenditure by Heads of Expenditure as shown in Table 3 for the 12 months to 30 June 2002 shows that the variation between actual and agreement figures is within the limits imposed by Clause 5.2  
(e) There were no Capital Items, as defined by Clause 5.3, acquired from the Grant or the Researchers' contribution.  
(f) Intellectual Property in all Contract Material is vested as provided in the Joint Venture Agreement and no Intellectual Property has been assigned or licensed without the prior approval of the Board and the Commonwealth (Clause 9.1, 9.5).  
(g) Proper accounting standards and controls have been exercised in respect of the Grant and Researchers' Contributions and income and expenditure in relation to the Activities of the Centre have been recorded separately from other transactions of the Researcher (Clause 12.2).
2. The Financial Statements of the CRC for Catchment Hydrology, the Statement of Financial Performance, Statement of Financial Position, Statement of Cash Flows and accompanying Notes to the Financial Statements are drawn up to give a true and fair view of the state of affairs as at 30 June 2002.

This statement is made in accordance with a resolution of the Governing Board and is signed on behalf of the Board.

**John Langford** Chairman, Governing Board



**R.A. Vertessy** Chief Executive Officer



Dated this 30<sup>th</sup> day of August 2002

**INDEPENDENT ACCOUNTANT'S REPORT**

**TO THE COOPERATIVE RESEARCH CENTRES PROGRAM, DEPARTMENT OF EDUCATION, SCIENCE  
AND TRAINING REPRESENTING THE COMMONWEALTH IN RESPECT OF COOPERATIVE  
RESEARCH CENTRE FOR CATCHMENT HYDROLOGY**

**FINANCIAL INFORMATION FOR THE YEAR ENDED 30 JUNE 2002**

**Scope**

We have conducted a limited scope review of the financial information of the Cooperative Research Centre for Catchment Hydrology as set out in the attached tables 1 to 4 for the financial year ended 30 June 2002. The parties to the Cooperative Research Centre are responsible for the preparation and presentation of the financial information.

The financial information has been prepared for the parties to the Cooperative Research Centre for Catchment Hydrology for the purposes of fulfilling their annual reporting obligations under clause 14 (1) (f) of the Commonwealth Agreement and for distribution to the Cooperative Research Centres Program, Department of Education, Science and Training, representing the Commonwealth of Australia. We disclaim any assumption of responsibility for any reliance on this report or on the financial information to which it relates to any person other than those mentioned above, or for any purpose other than that for which it was prepared.

The scope of our review was based on our understanding of the business activities of the Cooperative Research Centre for Catchment Hydrology and the systems for recording financial information. Our specific procedures consisted primarily of:

- Inquiries of written representations from the Cooperative Research Centre for Catchment Hydrology parties as to the continued effectiveness of internal accounting controls;
- A review of the existence of material matters relating to the financial position and results of the Cooperative Research Centre for Catchment Hydrology;
- A review of the compliance with the terms of Clauses 4, 5(1), 5(2), 5(3), 9(1), 9(5) and 12(2) of the Commonwealth Agreement; and
- Analytical review procedures applied to financial data.

These procedures provide less assurance than an audit conducted in accordance with Australian Auditing Standards. We have not performed an audit and, accordingly, we do not express an audit opinion.

**Review Opinion**

- Based on our review, which is not an audit, nothing has come to our attention that causes us to believe that the multipliers adopted by the Centre to value in-kind contributions other than salary costs do not have a sound and reasonable basis, and each partner's component of the Researcher's Contributions for the year ended 30 June 2002 has not been provided at least to the value for that period committed in the Budget as specified in the Commonwealth Agreement, with the following exceptions:

**In Kind Contributions**

<b><u>Organisation</u></b>	<b><u>Amount Committed</u></b> ( <b>\$</b> )	<b><u>Amount Provided</u></b> ( <b>\$</b> )
Brisbane City Council	400,000	376,000
The University of Melbourne	406,000	374,000

- Based on our review, nothing has come to our attention that causes us to believe that the total value of all contributions for the year under review does not equal or exceed the amount of the grant paid during the year.
- Based on our review, nothing has come to our attention that causes us to believe that the financial information presented in Tables 1 to 4 does not present fairly the sources of funding, the application of funding and the financial position of the Cooperative Research Centre for Catchment Hydrology for the period ending 30 June 2002 in accordance with applicable Accounting Standards, the CRC Secretariat's Guidelines for Auditors, and the requirements of the Commonwealth Agreement in terms of Clauses 4, 5(1), 5(2), 5(3), 9(1),9(5) and 12(2).
- Based on our review, nothing has come to our attention that causes us to believe that the Researcher's allocations of the budgetary resources between Heads of Expenditure have been lower or higher than the allocation in the budget by \$100,000 or 20% (whichever is the greater amount) without prior approval by the Commonwealth.
- Based on our review, nothing has come to our attention that causes us to believe that the Researcher has not used the Grant and the Researcher's Contributions essentially for the Activities of the Centre and not for any other purpose, and in our professional opinion there appears to be no material reporting irregularities.
- Based on our review, nothing has come to our attention that causes us to believe that capital items acquired from the Grant and Researcher's Contributions are not vested as provided in the Joint Venture Agreement.
- Based on our review, nothing has come to our attention that causes us to believe that proper accounting standards and controls have not been exercised in respect of the Grant and Researcher's contributions.
- Based on our review, nothing has come to our attention that causes us to believe that income and expenditure in relation to the Activities of the Centre have not been recorded separately from other transactions of the Researcher.
- Based on our review, nothing has come to our attention that causes us to believe that Intellectual Property in all Contract Material is not vested as provided in the Joint Venture Agreement and Intellectual Property has been assigned or licensed with the prior approval of the Commonwealth.

*Deloitte Touche Tohmatsu*

DELOITTE TOUCHE TOHMATSU

*John Etherington*  
JOHN ETHERINGTON  
Partner  
Chartered Accountants

Melbourne, 30 August 2002



**Appendix – Staff Resources  
2001 – 2002**



## Appendix Staff Resources 2001 – 2002

### Research Staff – Contributed as In-Kind Resources

Name	Main Activity	Total % Time	% Spent on Research Program (R)							Total on Research	% Spent on Education Program (8)/(E)	% Spent on Commercialisation Program (7)/(C)	% Spent on Administration Program (9)/(A)
			Subprograms										
			1	2	3	4	5	6	10				
<b>Brisbane City Council</b>													
Mr T. Weber	R	19	2	2	1	7	1	1	0	14	1	4	0
<b>TOTAL</b>		<b>19</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>7</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>14</b>	<b>1</b>	<b>4</b>	<b>0</b>
<b>Bureau of Meteorology</b>													
Dr E. Ebert	R	5	0	0	0	0	5	0	0	5	0	0	0
Mr J. Elliott	R	5	0	0	0	0	4	0	0	4	0	1	0
Dr M. Manton	R	6	0	0	0	0	6	0	0	6	0	0	0
Dr G. Mills	R	17	0	0	0	0	17	0	0	17	0	0	0
Dr A. Seed	R	70	0	0	0	0	64	0	0	64	0	6	0
Dr S. Srikanthan	R	90	0	0	0	0	87	0	0	87	0	3	0
Mr B. Stewart	C	2	0	0	0	0	0	0	0	0	0	2	0
<b>TOTAL</b>		<b>195</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>183</b>	<b>0</b>	<b>0</b>	<b>183</b>	<b>0</b>	<b>12</b>	<b>0</b>
<b>CSIRO Land and Water</b>													
Dr B. Bates	R	10	0	0	0	0	10	0	0	10	0	0	0
Ms S. Cuddy	R	44	43	0	0	0	0	0	0	43	0	1	0
Mr W. Dawes	R	11	0	11	0	0	0	0	0	11	0	0	0
Dr J. Gallant	R	6	6	0	0	0	0	0	0	6	0	0	0
Dr P. Hairsine	R	60	0	50	0	0	0	0	0	52	0	8	0
Dr N. McKenzie	R	7	0	7	0	0	0	0	0	7	0	0	0
Ms F. Marston	R	19	0	0	0	0	0	0	0	19	0	0	0
Dr J. Olley	R	55	0	55	0	0	0	0	0	55	0	0	0
Dr I. Prosser	R	45	0	45	0	0	0	0	0	45	0	0	0
Mr J. Rahman	R	56	55	0	0	0	0	0	0	55	0	1	0
Dr R. Silberstein	R	37	4	33	0	0	0	0	0	37	0	0	0
Prof R. Vertessy	R	100	55	3	0	0	0	0	0	58	0	28	14
Dr N. Viney	R	29	0	0	0	0	29	0	0	29	0	0	0
Dr G. Walker	R	17	0	17	0	0	0	0	0	17	0	0	0
Dr P. Wallbrink	R	45	0	45	0	0	0	0	0	45	0	0	0
Dr W. Young	R	24	0	24	0	0	0	0	0	24	0	0	0
Dr L. Zhang	R	33	0	30	0	0	0	0	0	30	0	3	0
<b>TOTAL</b>		<b>598</b>	<b>182</b>	<b>320</b>	<b>0</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>2</b>	<b>543</b>	<b>0</b>	<b>41</b>	<b>14</b>
<b>Department of Land and Water Conservation, NSW</b>													
Dr G. Geeves	R	16	0	16	0	0	0	0	0	16	0	0	0
Ms J. Green	R	10	0	0	0	0	0	0	10	10	0	0	0
Dr M. Littleboy	R	19	3	16	0	0	0	0	0	19	0	0	0
Dr N. Nandakumar	R	8	0	0	0	0	0	0	8	8	0	0	0
Dr D. Outhet	R	1	0	1	0	0	0	0	0	1	0	0	0
Mr G. Summerell	R	37	0	37	0	0	0	0	0	37	0	0	0
Ms C. Young	C	65	0	32	0	0	0	0	0	32	0	33	0
Mr C. Zierholz	R	22	0	22	0	0	0	0	0	22	0	0	0
<b>TOTAL</b>		<b>178</b>	<b>3</b>	<b>124</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>145</b>	<b>0</b>	<b>33</b>	<b>0</b>

## Research Staff – Contributed as In-Kind Resources continued

Name	Main Activity	Total % Time	% Spent on Research Program (R)							Total on Research	% Spent on Education Program (8)/(E)	% Spent on Commercialisation Program (7)/(C)	% Spent on Administration Program (9)/(A)
			Subprograms										
			1	2	3	4	5	6	10				
<b>Department of Natural Resources and Mines, Qld</b>													
Mr C. Carroll	C	39	0	15	2	0	0	0	0	17	0	22	0
Mr R. DeHayr	R	50	0	50	0	0	0	0	0	50	0	0	0
Mr R. Gillespie	R	7	0	7	0	0	0	0	0	7	0	0	0
Mr M. Gooda	R	1	1	0	0	0	0	0	0	1	0	0	0
Dr H. Hunter	R	55	0	55	0	0	0	0	0	55	0	0	0
Mr G. Miller	R	41	0	41	0	0	0	0	0	41	0	0	0
Mr B. Noble	C	4	0	0	0	0	0	0	0	0	0	4	0
Mr B. Powell	R	10	0	10	0	0	0	0	0	10	0	0	0
Dr D. Rassam	R	52	0	52	0	0	0	0	0	52	0	0	0
Mr K. Roberts	E	8	0	0	0	0	0	0	0	0	8	0	0
Mr J. Ruffini	R	7	0	0	0	0	0	0	0	5	0	2	0
Mr M. Sallaway	R	14	5	6	0	0	0	2	0	10	3	1	0
Mr M. Silburn	R	11	2	11	0	0	0	0	0	11	0	0	0
Mr S. Stevens	R	14	0	14	0	0	0	0	0	14	0	0	0
<b>TOTAL</b>		<b>313</b>	<b>8</b>	<b>261</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>273</b>	<b>11</b>	<b>29</b>	<b>0</b>

## Department of Natural Resources and Environment, Vic

Dr B. Christy	R	26	0	26	0	0	0	0	0	26	0	0	0
Mr M. Bethune	R	21	0	21	0	0	0	0	0	21	0	0	0
Dr C. Beverly	R	32	0	32	0	0	0	0	0	32	0	0	0
Dr C. Daamen	R	10	0	10	0	0	0	0	0	10	0	0	0
Dr A. Heuperman	R	7	0	7	0	0	0	0	0	7	0	0	0
Mr M. Hocking	R	5	0	5	0	0	0	0	0	5	0	0	0
Mr B. James	R	4	0	0	4	0	0	0	0	4	0	0	0
Dr P. Lane	R	77	0	77	0	0	0	0	0	77	0	0	0
Dr C. Maul	R	14	14	0	0	0	0	0	0	14	0	0	0
Dr J. Morris	R	89	23	66	0	0	0	0	0	89	0	0	0
<b>TOTAL</b>		<b>285</b>	<b>37</b>	<b>244</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>285</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Goulburn – Murray Water

Mr G. Adams	R	3	0	2	0	0	1	0	0	3	0	0	0
Mr G. Earl	R	2	0	0	2	0	0	0	0	2	0	0	0
Mr P. Feehan	C	9	0	0	0	0	0	0	0	0	0	9	0
Mr G. Hannan	R	5	0	0	2	0	2	0	0	4	0	1	0
Mr M. Seker	R	8	1	1	4	0	1	0	0	7	0	1	0
<b>TOTAL</b>		<b>27</b>	<b>1</b>	<b>3</b>	<b>8</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>11</b>	<b>0</b>

## Griffith University

Prof S. Bunn	R	13	0	6	2	0	0	5	0	13	0	0	0
Dr C. Fellows	R	30	0	30	0	0	0	0	0	30	0	0	0
Assoc Prof J. Fien	E	30	0	0	0	0	0	0	0	0	30	0	0
Dr M. Greenway	R	47	0	0	0	44	0	0	0	44	0	0	30
Dr G. Jenkins	R	18	0	0	0	9	9	0	0	18	0	0	0
Prof R. Rickson	C	10	0	0	0	0	0	0	0	0	0	10	0
Dr J. Tisdell	R	50	0	0	40	0	0	0	0	40	1	9	0
Prof R. Tomlinson	R	7	0	0	0	7	0	0	0	7	0	0	0
Dr B. Yu	R	44	8	34	0	0	0	0	0	42	0	0	2
<b>TOTAL</b>		<b>249</b>	<b>8</b>	<b>70</b>	<b>42</b>	<b>60</b>	<b>9</b>	<b>5</b>	<b>0</b>	<b>194</b>	<b>31</b>	<b>19</b>	<b>5</b>

## Appendix Staff Resources 2001 – 2002

### Research Staff – Contributed as In-Kind Resources continued

Name	Main Activity	Total % Time	% Spent on Research Program (R)							Total on Research	% Spent on Education Program (8)/(E)	% Spent on Commercialisation Program (7)/(C)	% Spent on Administration Program (9)/(A)
			Subprograms										
			1	2	3	4	5	6	10				
<b>Melbourne Water</b>													
Mr H. Duncan	R	100	0	0	0	100	0	0	0	100	0	0	0
Mr B. Rhodes	C	1	0	0	0	0	0	0	0	0	0	1	0
Mr G. Rooney	C	7	0	0	0	1	0	1	0	2	0	5	0
Mr S. Seymour	R	3	0	0	0	2	0	1	0	3	0	0	0
Mr I. Watson	R	12	0	12	0	0	0	0	0	123	0	0	0
<b>TOTAL</b>		<b>123</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>103</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>117</b>	<b>0</b>	<b>6</b>	<b>0</b>
<b>Monash University</b>													
Assoc. Prof. G. Codner	R	19	0	0	19	0	0	0	0	19	0	0	0
Dr R. Hadgraft	R	6	5	0	0	0	0	0	0	5	0	1	0
Assoc. Prof. R. Keller	R	40	0	6	0	0	0	29	3	38	0	2	0
Prof. R. Mein	C	50	0	0	0	0	0	0	4	4	76	28	11
Mr E. Weinmann	R	41	0	0	15	0	0	0	8	23	0	18	0
Assoc. Prof. T. Wong	R	69	0	0	0	46	0	0	0	46	6	17	0
Mr R. Wootton	R	18	0	0	0	17	0	0	0	17	0	1	0
<b>TOTAL</b>		<b>243</b>	<b>5</b>	<b>6</b>	<b>34</b>	<b>63</b>	<b>0</b>	<b>29</b>	<b>15</b>	<b>152</b>	<b>13</b>	<b>67</b>	<b>11</b>
<b>The University of Melbourne</b>													
Dr R. Argent	R	14	8	1	0	0	0	0	0	9	0	5	0
Dr F. Chiew	R	11	8	0	0	3	0	0	0	11	0	0	0
Dr B. Downes	R	5	0	0	0	0	0	5	0	5	0	0	0
Prof. J. Fenton	C	5	0	1	0	0	0	0	0	1	0	4	0
Assoc. Prof. B. Finlayson	R	2	0	0	0	0	0	2	0	2	0	0	0
Assoc. Prof. R. Grayson	R	31	14	2	0	0	1	0	8	25	0	6	0
Dr J. Lin	C	4	0	0	0	0	0	1	0	1	0	3	0
Prof. T. McMahon	R	17	0	3	5	0	3	0	0	11	4	2	0
Assoc. Prof. H. Malano	R	31	0	0	30	0	0	0	0	30	1	0	0
Dr G. Moore	R	3	0	0	0	0	0	0	3	3	0	0	0
Dr M. Peel	R	24	10	0	0	0	14	0	0	24	0	0	0
Dr I. Rutherford	C	11	1	0	0	0	0	1	0	2	0	9	0
Assoc Prof I. Simmonds	R	10	0	0	0	0	10	0	0	10	0	0	0
Dr T. Weaver	E	16	0	0	0	0	0	0	0	0	16	0	0
<b>TOTAL</b>		<b>184</b>	<b>41</b>	<b>7</b>	<b>35</b>	<b>3</b>	<b>28</b>	<b>9</b>	<b>11</b>	<b>134</b>	<b>21</b>	<b>29</b>	<b>0</b>

## Research Staff – CRC Funded Resources

Name	Employing Organisation	Main Activity	Total % Time	% Spent on Research Program (R)						Total on Research	% Spent on Education Program (8)/(E)	% Spent on Commercialisation Program (7)/(C)	% Spent on Administration Program (9)/(A)
				Subprograms									
				1	2	3	4	5	6				
Dr H. Richter	Bur. of Met	R	100					100					
Ms K. Borman	CSIRO	R	10		10								
Mr H. Bowman	CSIRO	R	40		40								
Dr G. Caitcheon	CSIRO	R	47		47								
Mr J. Coleman	CSIRO	R	30				30						
Dr H. Cresswell	CSIRO	R	6			6							
Mr T. Dowling	CSIRO	R	20			20							
Mr T. Ellis	CSIRO	R	40		40								
Mr C. Flemming	CSIRO	R	30		30								
Ms L. Gregory	CSIRO	R	10			10							
Dr P. Hairsine	CSIRO	R	25		25								
Mr A. Hughes	CSIRO	R	60		60								
Dr N. McKenzie	CSIRO	R	6			6							
Mr J. Rahman	CSIRO	R	50	50									
Mr A. Scott	CSIRO	R	37		37								
Mr S. Seaton	CSIRO	R	100	100									
Dr R. Silberstein	CSIRO	R	10			10							
Mr B. Smith	CSIRO	R	20		20								
Mr C. Thompson	CSIRO	R	20		20								
Dr N. Viney	CSIRO	R	0										
Mr D. Wilkins	CSIRO	R	50		50								
Dr L. Zhang	CSIRO	R	25			25							
Dr M. Littleboy	DLWC, NSW	R	2		2								
Dr D. Rassam	DNRM, Qld	R	30		30								
Dr C. Fellows	Griffith Univ.	R	27		27								
Dr E. Larsen	Griffith Univ.	R	24				24						
Mr N. Marsh	Griffith Univ.	R	100				100						
Dr J. Tisdell	Griffith Univ.	R	50			50							
Mr J. Ward	Griffith Univ.	R	50			50							
Mr J. Whelan	Griffith Univ.	E	72							72			
Dr B. Yu	Griffith Univ.	R	6		6								
Dr R. Bartley	Mon. Univ.	R	17										
Mr A. Barton	Mon. Univ.	R	3				3						
Dr T. Fletcher	Mon. Univ.	R	100				100						
Mr J. Lewis	Mon. Univ.	R	59				59						
Ms S. Lloyd	Mon. Univ.	R	20				20						
Prof. R. Mein	Mon. Univ.	C	50			9				8	22	11	
Mr D. Perry	Mon. Univ.	C	100							10	90		
Mr P. Poelsma	Mon. Univ.	R	10				10						
Mr A. Ryan	Mon. Univ.	R	8				8						
Dr S. Schreider	Mon. Univ.	R	100			100							
Mr G. Taylor	Mon. Univ.	R	25				25						
Ms A. Wilson	Mon. Univ.	R	7			7							
Mr F. Winston	Mon. Univ.	R	31						31				
Dr R. Argent	Univ. Melb.	R	26	26									
Mr A. Bock	Univ. Melb.	R	9						9				
Dr F. Chiew	Univ. Melb.	R	79				5	74					
Dr S. Ewing	Univ. Melb.	R	23	14							9		
Assoc. Prof. R. Grayson	Univ. Melb.	R	24	24									
Ms E. Howes	Univ. Melb.	R	19						19				
Ms R. Jackson	Univ. Melb.	R	4						4				
Mr S. Jha	Univ. Melb.	R	5	5									
Dr A. Ladson	Univ. Melb.	R	98		44				54				
Mr J. Lander	Univ. Melb.	R	11	6					5				
Prof. T. McMahon	Univ. Melb.	R	53					34		2	10	7	
Prof. G. Pegram	Univ. Melb.	R	41					41					
Mr R. Pipunic	Univ. Melb.	R	8	8									

## Appendix Staff Resources 2001 – 2002

### Research Staff – CRC Funded Resources continued

Name	Employing Organisation	Main Activity	Total % Time	% Spent on Research Program (R)							Total on Research	% Spent on Education Program (8)/(E)	% Spent on Commercialisation Program (7)/(C)	% Spent on Administration Program (9)/(A)
				Subprograms										
				1	2	3	4	5	6	10				
Mr M. Roberts	Univ. Melb.	R	10							10				
Assoc Prof. I. Rutherford	Univ. Melb.	R	42							32		10		
Ms C. Savige	Univ. Melb.	R	1					1						
Dr P. Scanlon	Univ. Melb.	R	16					16						
Mr T. Seyfarth	Univ. Melb.	R	15	15										
Ms L. Sheather	Univ. Melb.	R	5						5					
Mr L. Siriwardena	Univ. Melb.	R	68				12	47			3	6		
Dr M. Stewardson	Univ. Melb.	R	97							84		13		
Ms S. van de Meene	Univ. Melb.	R	4						4					
Dr A. Western	Univ. Melb.	R	99	78				21						
Dr R. Young	Univ. Melb.	R	62	32				30						
Dr S. Zhou	Univ. Melb.	R	97							97				
<b>TOTAL</b>			<b>2,543</b>	<b>358</b>	<b>505</b>	<b>293</b>	<b>396</b>	<b>461</b>	<b>257</b>	<b>0</b>	<b>2,270</b>	<b>95</b>	<b>160</b>	<b>18</b>

### Summary of Contribution in Person Years (100% = 1 person years)

	Total Equivalent Person Years	Person Years Spent on Research Programs							Total on Research	Person Years Spent on Education Program	Person Years Spent on Commercialisation Program	Person Years Spent on Administration Program
		Subprogram										
		1	2	3	4	5	6	10				
Total Contributed as In-Kind	24.14	2.87	10.49	1.26	2.36	2.64	0.48	0.46	20.56	0.77	2.51	0.30
Total Funded by CRC	25.43	3.58	5.05	2.93	3.96	4.61	2.57	0.00	22.70	0.95	1.60	0.18
<b>Grand Total</b>	<b>49.57</b>	<b>6.45</b>	<b>15.54</b>	<b>4.19</b>	<b>6.32</b>	<b>7.25</b>	<b>3.05</b>	<b>0.46</b>	<b>43.26</b>	<b>1.72</b>	<b>4.11</b>	<b>0.48</b>

<i>Proportion of total professional staff resources in each activity</i>	100	13	31	9	13	15	6	1	87	4	8	1
--	-----	----	----	---	----	----	---	---	----	---	---	---

### Support Staff (100% = 1 person years)

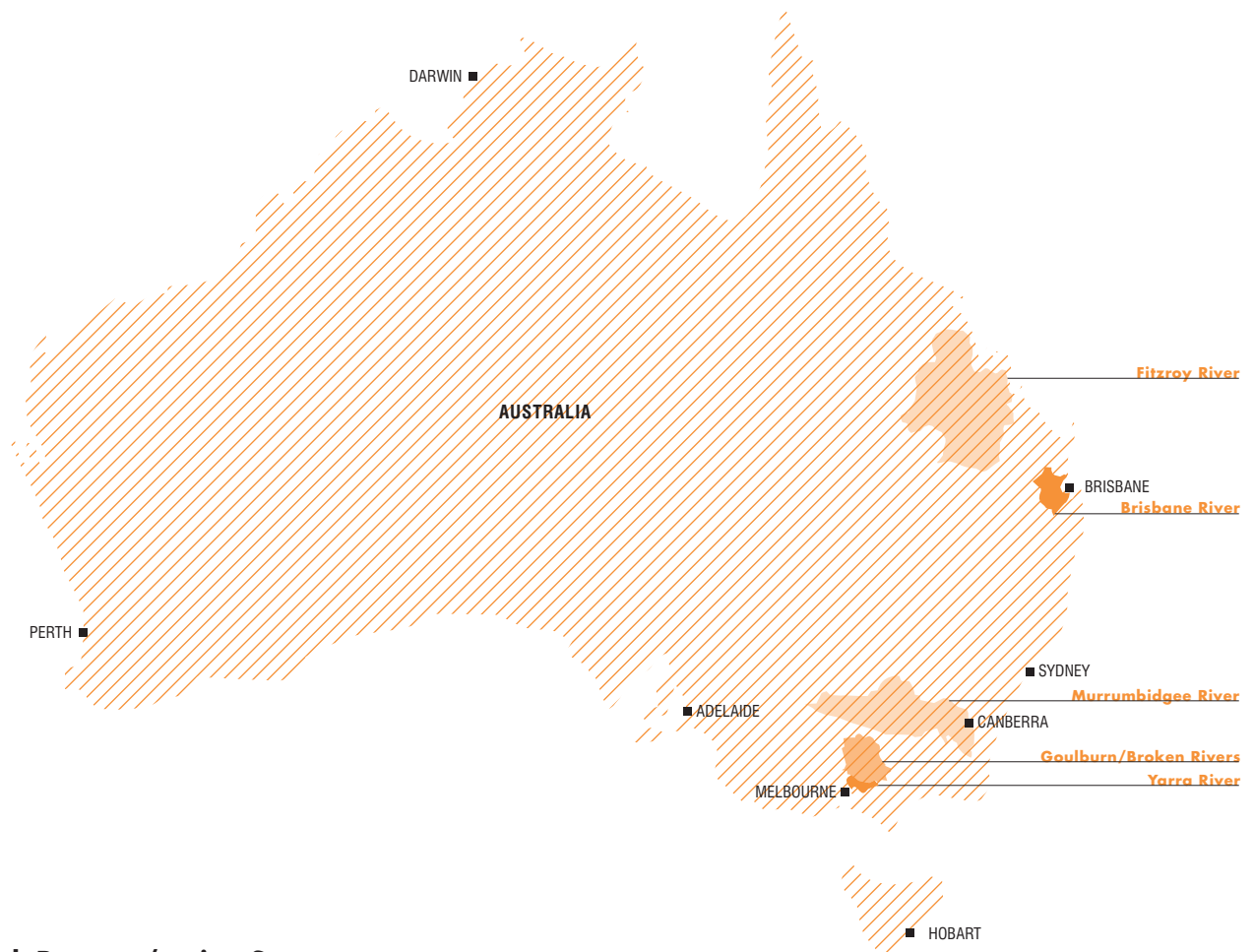
#### (1) Contributed

Organisation	Number of Staff Person Years
CSIRO	0.00
Monash University	0.00
The University of Melbourne	0.00
<b>TOTAL</b>	<b>0.00</b>

#### (2) CRC Funded

Organisation	Number of Staff Person Years
CSIRO	1.40
Monash University	2.21
The University of Melbourne	0.03
<b>TOTAL</b>	<b>3.64</b>

## Focus Catchments at June 2002



### Research Program/project Structure

#### Core Projects and Major Contract Research Activity

##### Program 1

###### Predicting Catchment Behaviour

- 1.1 Development of a catchment modelling toolkit
- 1.2 Scaling procedures to support process-based modelling at large scales
- 1.3 Development of an environmental management support system (EMSS) for catchments in South East Queensland
- 1.4 Modelling and estimating sediment and nutrient loads in South East Queensland catchments

##### Program 2

###### Land-use Impacts on Rivers

- 2.1 Sediment movement, water quality and physical habitat in large river systems
- 2.2 Managing pollutant delivery in dryland upland catchments
- 2.3 Predicting the effects of land-use changes on catchment water yield and stream salinity
- 2.5 Nitrogen and carbon dynamics in riparian buffer zones
- 2.6 Predicting the combined environmental impact of catchment management regimes on dryland salinity

##### Program 3

###### Sustainable Water Allocation

- 3.1 Integration of water balance, climatic and economic models
- 3.2 Enhancement of the water market reform process: A socio-economic analysis of guidelines and procedures for trading in mature water markets

##### Program 4

###### Urban Stormwater Quality

- 4.1 Stormwater pollutant sources, pathways and impacts
- 4.2 Stormwater best management practices

##### Program 5

###### Climate Variability

- 5.1 Modelling and forecasting hydroclimate variables in space and time
- 5.2 National data bank of stochastic climate and streamflow models

##### Program 6

###### River Restoration

###### Project Group A: Stream Restoration – Procedures and Evaluation

- 6.1 Developing criteria and concepts for planning the evaluation of stream rehabilitation projects
- 6.2 Optimising urban stream rehabilitation planning and execution
- 6.3 Restoration ecology in the Granite Creeks, Victoria
- 6.4 Evaluation of riparian revegetation in a South East Queensland catchment

###### Project Group B: Tools for Stream Restoration

- 6.5 Hydraulics and performance of fishways in Australian streams
- 6.6 Developing tools to predict scour of rehabilitation works
- 6.7 Developing an environmental flow methodology: a trial on the Campaspe River
- 6.8 Research to improve the effectiveness of Australian fishway design

##### Program 8

###### Education and Training

- 8.1 Capacity building, education and training
- 8.2 Public participation and community change



**Centre Office**

Department of Civil Engineering  
PO Box 60  
Clayton Campus  
Monash University  
VIC 3800 Australia  
Telephone +61 3 9905 2704  
Facsimile +61 3 9905 5033  
<http://www.catchment.crc.org.au>

**The Cooperative Research Centre for  
Catchment Hydrology is a cooperative  
venture formed under the Commonwealth  
CRC Program between:**

- Brisbane City Council
- Bureau of Meteorology
- CSIRO Land and Water
- Department of Land and Water Conservation, NSW
- Department of Natural Resources and Environment, Vic
- Goulburn-Murray Water
- Griffith University
- Melbourne Water
- Monash University
- Murray-Darling Basin Commission
- Natural Resources and Mines, Qld
- Southern Rural Water
- The University of Melbourne
- Wimmera Mallee Water

**Associate:**

- Water Corporation of Western Australia

