

BOM - MODERNISATION AND EXTENSION PROGRAM FUNDING - ROUNDS 1 - 4 FOR THE NT

Primary Theme	ROUND 1			ROUND 2			ROUND 3			ROUND 4		
	Project	Applied Funding	Actual Funding	Project	Applied Funding	Actual Funding	Project	Applied Funding	Actual Funding	Project	Applied Funding	Actual Funding
Theme 1 / A Improving the accuracy of existing water storage measurement, stream flow, groundwater, meteorological, and water quality networks.	Gauging Station Instrument upgrade Proj 1/Gap 1	499,700	499,700	Deployment of gauging station upgrade equipment from Round 1 Proj 2/Gap 1	165,000	82,000				Instrument technician for upgrade deployments Proj 3/Gap 1	112,000	87,500
	Accoustic Doppler Meters Proj 4/Gap 5	92,400	92,400	Accoustic Doppler Current Profilers Proj 5/Gap 5	547,549	200,000				Installation of continuous logging systems for NT groundwater monitoring bores Proj 7/Gap 2	550,400	275,000
	TOTAL	592,100	592,100		1,719,449	732,000		0	0		662,400	362,500
Theme 2 / B Installation of telemetry.	Hardware for hardware consolidation of Telemetry Systems Proj 8/Gap 3	63,000	63,000	Reinstatement & modernisation of remote indigenous community water supply aquifer monitoring (PWC) Proj 9/Gap 4	625,200	363,000	Reinstatement, modernisation and extension of remote indigeous community water supply aquifer monitoring (PWC) Proj 10/Gap 4	285,000	285,000			
	TOTAL	63,000	63,000		625,200	363,000		285,000	285,000		0	0
Theme 3 / C Extending the coverage of the monitoring network to address critical information gaps.												
	TOTAL	0	0		0	0		0	0		0	0
Theme 4 / D Improving water data (and metadata) management procedures.	Upgrade of PWC Data Mgmt Infrastructure (PWC) Proj 11/Gap 6	200,000	160,000									
	TOTAL	200,000	160,000		0	0		0	0		0	0
Theme 5 / E Recovery or rescue of water information, including metadata. WDTF							Purchase and implementation of Osisof PI Historian ADTF module (PWC) Proj 12/Gap 6	35,000	35,000			
	TOTAL	0	0		0	0		35,000	35,000		0	0
Theme F Quality Assurance/Quality Control												
	TOTAL	0	0		0	0		0	0		0	0
Theme G Rescue of data (digitisation)												
	TOTAL	0	0		0	0		0	0		0	0
Theme 6 / H Improving the Australian Hydrologic Geospatial Fabric's (AHGF) national surface water foundation data set.												
	TOTAL	0	0		0	0		0	0		0	0
Theme 7 / H Improving the Australian Hydrologic Geospatial Fabric's (AHGF) national groundwater foundation data set.							AHD connection of groundwater and surface water monitoring locations. Proj 13/Gap 7	362,000	227,000	AHD connection of Water Monitoring Locations Proj 14/Gap 7	355,000	240,000
	TOTAL	0	0		0	0		362,000	227,000	Implementation of NGIS in the NT Proj 15/Gap 8	150,000	150,000
											505,000	390,000
Theme 8 / I Participating in the cooperative planning and production of the National Water Account (NWA).												
	TOTAL	0	0		0	0		0	0		0	0
Theme 9 / J Engagement of Strategic Water Information Coordinators.				Strategic Water Information and Planning Coordination Proj 16/Gap 9	140,000	110,000	Strategic Water information coordination Proj 17/Gap 9	40,000	40,000	Strategic Water information coordination Proj 18/Gap 9	165,000	40,000
	TOTAL	0	0		140,000	110,000		40,000	40,000		165,000	40,000
Theme 10 / K Development and application of best practice guides or standards for the collection, monitoring, measurement and storage of water information and or metadata.												
	TOTAL	0	0		0	0		0	0		0	0
	NT TOTAL	855,100	815,100		2,484,649	1,205,000		722,000	587,000		1,332,400	792,500

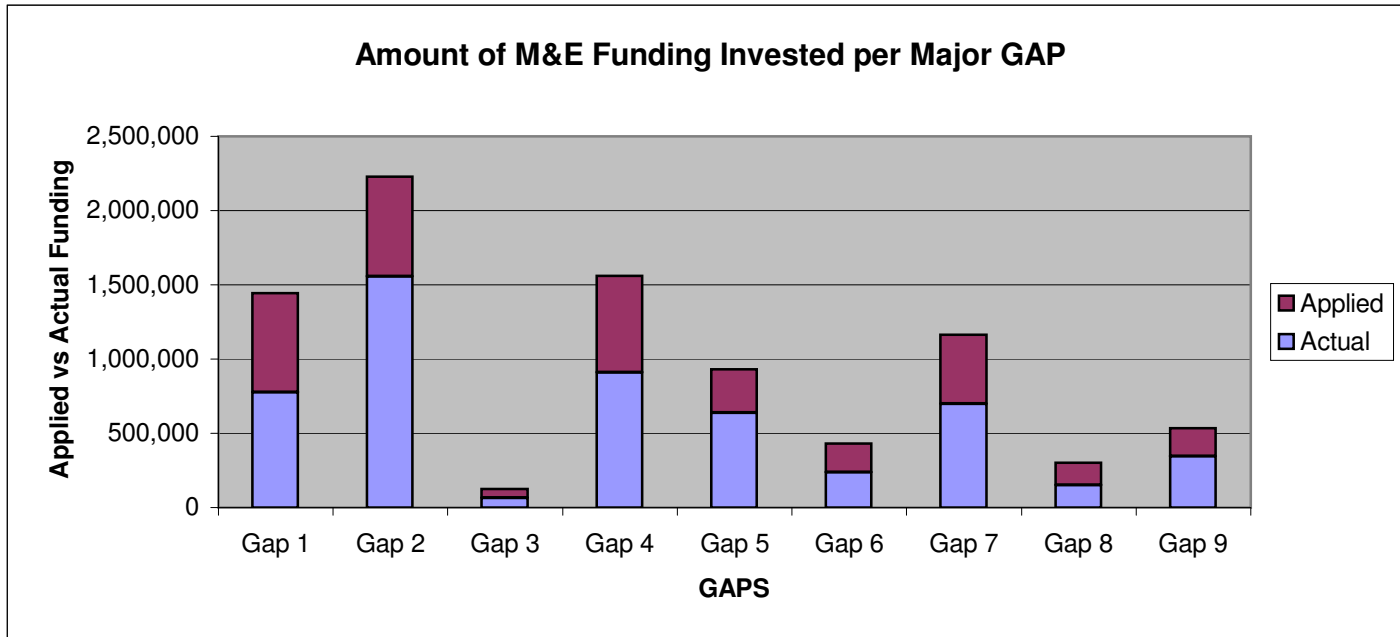
GAPS IN INFORMATION FOR THE NT

Gap No	Gap	Expenditure by Gap		No of Projects
		Applied	Actual	
1	Risk of instrumentation being obsolete and incapable of integrating with communication mediums	776,700	669,200	3
2	Some monitoring of groundwater network still undertaken by discrete measurement on an opportune basis	1,557,300	725,000	2
3	Some data and communications systems on inadequate infrastructure	63,000	63,000	1
4	Reinstatement & modernisation of remote indigenous community water supply aquifer monitoring still required	910,200	648,000	2
5	Still some sites requiring improved mechanisms for measuring accuracy of water velocities	639,949	292,400	2
6	Upgrade of PWC data management infrastructure	235,000	195,000	2
7	Still need to identify a reference datum for a considerable number of monthly sites within the NT	697,000	467,000	2
8	NGIS in the NT	150,000	150,000	1
9	Strategic Water Information and Planning Coordination beyond the M&E Program	345,000	190,000	3
10	Significant river spring locations are not known or have not been mapped			
11	Insufficient knowledge on recharge quantification, dependency and needs of groundwater ecosystems			
12	Insufficient knowledge of the karstic nature and very high permeability in the two major aquifer systems in the Daly River area which pose difficulties in predicting and discerning groundwater movement and response.			
13	Need for a monitoring program to investigate changes in groundwater chemistry in the Ti Tree aquifer			
14	Need for a monitoring program for indicators of environmental and cultural place health the Ti Tree aquifer			
15	Need for a water quality monitoring program in the Alice Springs area			
16	Groundwater level monitoring in remote aquifers has a 13 year gap in aquifer information			
17	Data capture and transfer not meeting time requirements			
18	Streamflow data not meeting all accuracy levels			
19	Water storage and surface water data not in electronic format			
20	Inability to collate and deliver water accounting data efficiently			
21	Gaps in knowledge of the Daly/Roper region attributed to issues of recharge quantification, dependency and needs of groundwater dependent ecosystems which pose difficulties in predicting and discerning groundwater movement and response.			
	For Water Allocation Plans:			
22	Recognition of Native Title and development of SIR			
23	Water use requirements for stock and domestic use			
24	Confirmation of assumption that cultural flow requirements are the same as environmental flow requirements.			
25	Catchments' Characteristics			
26	Spatial variation of soil moisture			
27	Proposed rezoning			
28	Surface and groundwater quality response to extraction			
29	Determination of cultural flow requirements			
30	Density and location of existing and proposed effluent disposal systems			
31	Crop water use model			
32	Estimate current rural domestic use (sourced from groundwater bores)			
33	Consideration of strategic reserve to support Indigenous economic development opportunities (SIR)			
34	Identify and prioritise sites of recreational and aesthetic importance			
35	Future rural residential development scenarios			
36	GDE locations and Environmental Water Requirements (EWRs)			
37	Localised impacts of extraction from production bores or high density of stock and domestic bores			
38	Property development plans (PDPs)			
39	Aquifer characterisation			

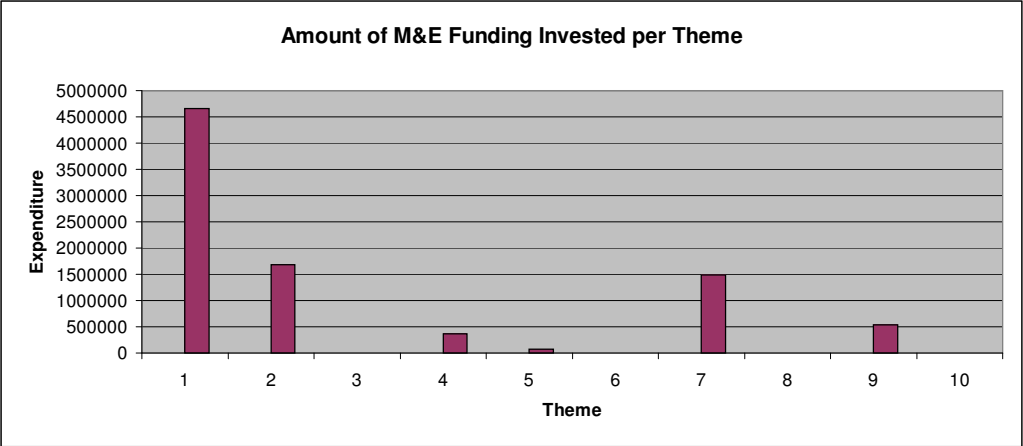
TOTAL FUNDING

GAP	Applied Funding	Actual Funding	GAP Funding	Gap 1	Gap 2	Gap 3	Gap 4	Gap 5	Gap 6	Gap 7	Gap 8	Gap 9
Gap 1	776,700	669,200	Applied	776,700	1,557,300	63,000	910,200	639,949	235,000	697,000	150,000	345,000
Gap 2	1,557,300	725,000	Actual	669,200	669,200	63,000	648,000	292,400	195,000	467,000	150,000	190,000
Gap 3	63,000	63,000										
Gap 4	910,200	648,000										
Gap 5	639,949	292,400										
Gap 6	235,000	195,000										
Gap 7	697,000	467,000										
Gap 8	150,000	150,000										
Gap 9	345,000	190,000										

Totals 5,374,149 3,399,600



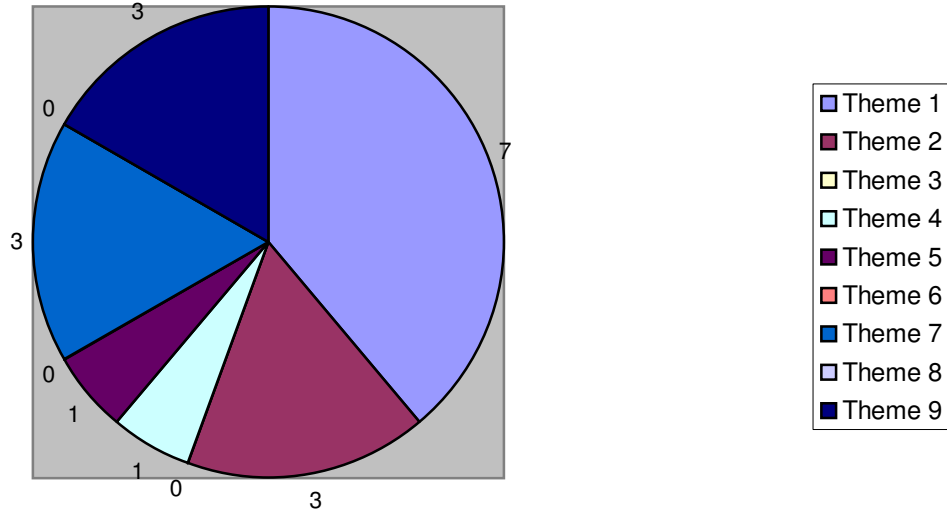
Primary Theme	ROUND 1		ROUND 2		ROUND 3		ROUND 4		Themes										
	Rnd 1	Rnd 1	Rnd 2	Rnd 2	Rnd 3	Rnd 3	Rnd 4	Rnd 4		1	2	3	4	5	6	7	8	9	10
	Applied Funding	Actual Funding	Applied Funding	Actual Funding	Applied Funding	Actual Funding	Applied Funding	Actual Funding											
Theme 1 / A	592,100	592,100	1,719,449	732,000	0	0	662,400	362,500	4,660,549	4,660,549	1,684,200	0	360,000	70,000	0	1,484,000	0	535,000	0
Theme 2 / B	63,000	63,000	625,200	363,000	285,000	285,000	0	0	1,684,200										
Theme 3 / C	0	0	0	0	0	0	0	0	0										
Theme 4 / D	200,000	160,000	0	0	0	0	0	0	360,000										
Theme 5 / E	0	0	0	0	35,000	35,000	0	0	70,000										
Theme F	0	0	0	0	0	0	0	0	0										
Theme G	0	0	0	0	0	0	0	0	0										
Theme 6 / H	0	0	0	0	0	0	0	0	0										
Theme 7 / H	0	0	0	0	362,000	227,000	505,000	390,000	1,484,000										
Theme 8 / I	0	0	0	0	0	0	0	0	0										
Theme 9 / J	0	0	140,000	110,000	40,000	40,000	165,000	40,000	535,000										
Theme 10 / K	0	0	0	0	0	0	0	0	0										
Totals	855,100	815,100	2,484,649	1,205,000	722,000	587,000	1,332,400	792,500											



TOTAL FUNDING

<i>Theme</i>	<i>No of Projects</i>	<i>Theme funding</i>	<i>Theme 1</i>	<i>Theme 2</i>	<i>Theme 3</i>	<i>Theme 4</i>	<i>Theme 5</i>	<i>Theme 6</i>	<i>Theme 7</i>	<i>Theme 8</i>	<i>Theme 9</i>
<i>Theme 1</i>	7	No of Proje	7	3	0	1	1	0	3	0	3
<i>Theme 2</i>	3										
<i>Theme 3</i>	0										
<i>Theme 4</i>	1										
<i>Theme 5</i>	1										
<i>Theme 6</i>	0										
<i>Theme 7</i>	3										
<i>Theme 8</i>	0										
<i>Theme 9</i>	3										
Totals	18			0							

Theme vs Number of projects funded



TOTAL FUNDING

Theme	No of Projects
Theme 1	1,686,600
Theme 2	711,000
Theme 3	0
Theme 4	160,000
Theme 5	35,000
Theme 6	0
Theme 7	617,000
Theme 8	0
Theme 9	190,000

Theme	Theme 1	Theme 2	Theme 3	Theme 4	Theme 5	Theme 6	Theme 7	Theme 8	Theme 9
No of Proj	1,686,600	711,000	0	160,000	35,000	0	617,000	0	190,000

Totals 3,399,600 0

Theme vs Total value of projects funded

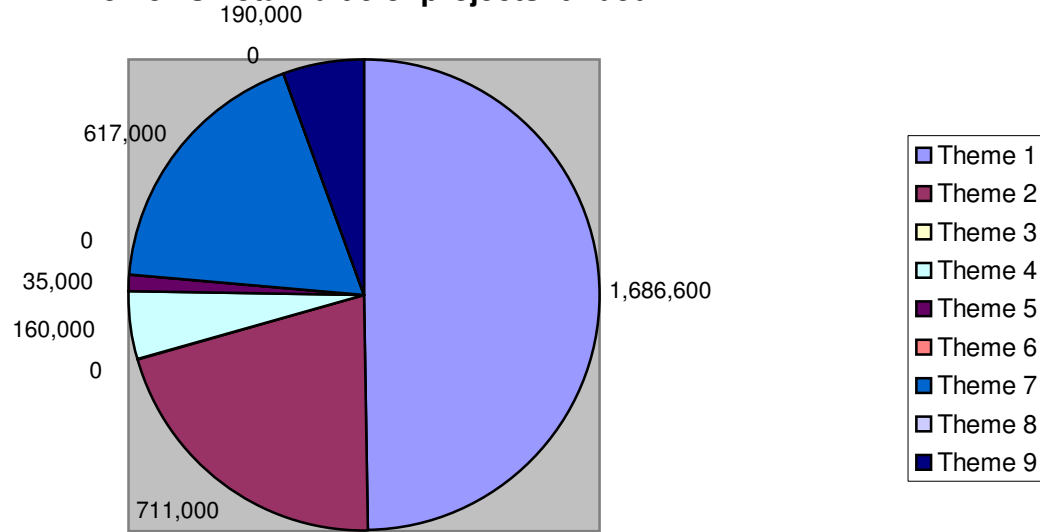


TABLE 1

Table 1 - For each named organisation, this table shows how many gaps have been addressed through M&E Funding and to what extent.

Person Category	Organisation Name	Number of gaps addressed through M&E Funding																																													
		No of gaps 100% addressed									No of gaps 75% addressed									No of gaps 50% addressed									No of gaps <50% addressed																		
		Primarily Round 4 Projects																																													
		1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9										
1	Department of Natural Resources, Environment, The Arts and Sport																																														
	Project 1	█																																													
	Project 2		█																																												
	Project 3																																														
	Project 4	█																																													
	Project 5	█																																													
	Project 6																																														
	Project 7																																														
	Project 8	█																																													
	Project 13	█																																													
	Project 14																																														
	Project 15																																						█								
	Project 16	█																																													
	Project 17	█																																													
	Project 18																																														
	2	Power and Water Corporation																																													
		Project 9																																													
		Project 10																																													
Project 11																																															
Project 12																																					█										

NOTE: Funding received through the Modernisation and Extension Program have met the information requirements for sites associated with specific projects. However there still remains considerable areas where we have limited or no knowledge of water resources in the Northern Territory.

Total number of projects by Agency:

1	Department of Natural Resources, Environment, The Arts and Sport	Project ref	1	2	3	4	5	6	7	8	15	16	17	18
	% Addressed	100	100	50	100	100	50	50	100	<50	100	100	50	
2	Power and Water Corporation	Project ref	9	10	11	12								
	% Addressed	50	50	60	0									
3	Department of Primary Industry	Project ref	13	14										
	% Addressed	100	50											