

Purpose:

Ensure that the country's water resources are protected, used, developed, conserved, managed and controlled in a sustainable and equitable manner for the benefit of all people.

State of Water Resources Report

Rainfall

Although there were isolated and relatively brief occurrences of heavy rain in some parts of the country during the period, in general rainfall over much of the country was lower than the long-term average. Total rainfall less than 75% of the long-term average was recorded in the whole of Limpopo Province, the northern and coastal areas of KwaZulu-Natal, the western parts of the Free State and North West, the central and western parts of the Northern Cape, and the western parts of the Western Cape.

Figure 1a shows the percentage of normal rainfall over the country for the period April 2004 to March 2005, whilst Figure 1b shows the equivalent information for the previous 12 month period.

Water Availability

2004/5 was the fourth consecutive year of sub-normal rainfall. This is reflected in the continuing decline in the total volume of water in storage in the country's major dams, graphically represented in Figure 2.

The absence of significant Rainfall events to recharge aquifers in recent years has also resulted in a fall in groundwater levels in most parts of the country. Much of the drought relief effort during the reporting period was focused on emergency water provision in municipalities where dependence on groundwater is high, and where the sources are failing or have failed.

At the end of March 2002 the volume of water stored stood at a little less than 90% of total national full supply capacity, but this had fallen to around 67% at end-March 2005. In the Western Cape, where dams were, on average, only 28% full at end-March after a mid-year wet season high of about 55%, the situation is particularly serious, and widespread restrictions on water use were imposed.

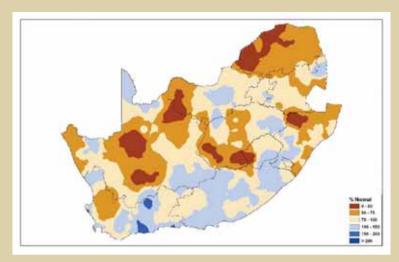


Figure 1a: Percentage of Normal Rainfall April 2004 to March 2005

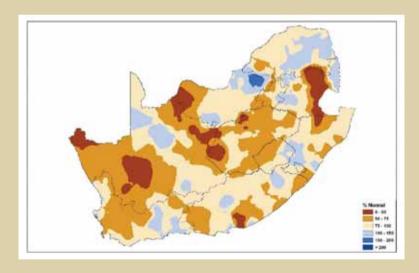


Figure 1b: Percentage of Normal Rainfall April 2003 to March 2004

While data is presented by province, it is important to note that some provinces are supplied with water by means of inter-basin transfers. Much of Gauteng's water, for instance, is supplied from the large dams in the Free State and Lesotho, and water can be transferred into Gauteng from the Thukela catchment in KwaZulu-Natal. Parts of the Eastern Cape also receive water from the Gariep Dam in the Free State. This flexibility does not, extend to the Western Cape, where solutions to the water shortages currently being experienced must be found within the area.

Water use

Table 1 presents information on the volumes of water registered for use at the end of March 2005 in the three user sectors forestry (stream flow reduction), agriculture (irrigation and livestock watering), and domestic/industrial - and also use in terms of Schedule 1 of the National Water Act, for which no charge is made.

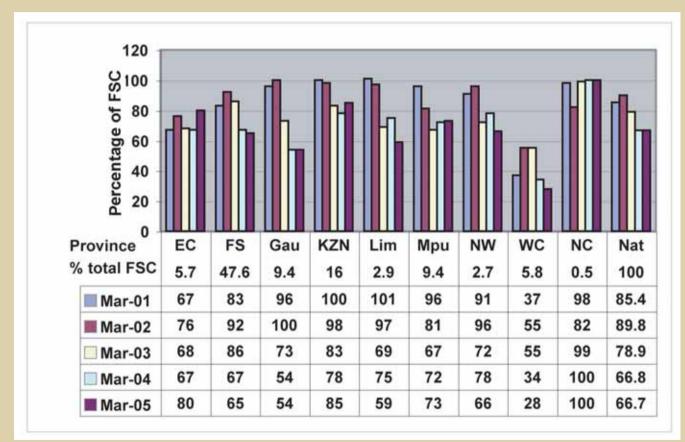


Figure 2: Water in storage as percentage of full supply capacity

Table 5: Annual registered water use at end-March 2005 (Thousands of cubic metres)

No	Water Management Area	Forestry	Agriculture: Irrigation/ Livestock Watering	Domestic/Industrial	Schedule 1 use
1	Limpopo	970	556 807	54 825	373
2	Luvuvhu/Letaba	35 407	425 993	42 215	15 193
3	Crocodile West- Marico	20	692 593	217 286	48 452
4	Olifants	27 191	695 103	245 941	31 615
5	Inkomati	254 140	979 594	202 080	2 008
6	Usutu-Mhlathuze	343 866	601 633	262 399	1 374
7	Thukela	30 491	247 801	120 050	361
8	Upper Vaal	11	528 829	1 843 398	581
9	Middle Vaal	-	292 543	319 643	4
10	Lower Vaal	-	579 509	131 369	3 728
11	Mvoti-Mzimkulu	192 800	217 292	465 883	4 583
12	Mzimvubu-Keiskamma	36 826	120 583	146 730	75 186
13	Upper Orange	-	768 688	96 523	-
14	Lower Orange	-	912 045	94 142	61
15	Fish-Tsitsikamma	18 169	1 222 953	142 654	10 224
16	Gouritz	9 979	412 704	64 179	255
17	Olifants/Doorn	117	403 990	4 343	960
18	Breede	8 495	836 203	52 916	3 289
19	Berg	6 426	317 420	412 298	34 822
	Totals	964 908	10 812 283	4 918 875	233 069
Total 16					16 929 135

Some existing water users have registered volumes higher than their actual use, in the expectation that their registered use figures will eventually be reflected in their licences. As these claims are validated, verified and formally authorised by licences this data will progressively more closely reflect actual water use across the country.

The figures in Table 1 exceed those presented in Chapter 2 of the National Water Resource Strategy, First Edition, 2004 (NWRS), for two reasons. Firstly because of the over-registration discussed above, and secondly because the figures in the NWRS are standardised to 98% assurance of supply to facilitate country-wide comparison. This results in under-estimation of water use for sectors that require assurance of supply less than 98%. This is particularly so for irrigated agriculture, which is also the biggest sectoral water user.

Water restrictions

Restrictions on water use from surface water sources were imposed during the period as follows -

- Eastern Cape: 100% restriction imposed on industrial and domestic use and 25% restriction on agricultural use from Kouga Dam.
- Free State: Restrictions were imposed on water use from dams on rivers draining to the west. Industrial, domestic and agriculture were restricted by 85% of their allocations from Allemanskraal Dam. Restrictions on agricultural use were imposed at Kalkfontein (20%), Armenia (25%), Erfenis (60%), Krugersdrift (70%), Egmont (95%) and Koppies (100%) dams.
- Gauteng: No restrictions were imposed.
- Kwazulu-Natal: No restrictions were imposed.
- Limpopo: Restrictions were imposed in the Letaba and Luvuvhu/Mutale catchments. Agricultural use was restricted by 50% on Nzhelele Dam, 60% on Albasini, 20% on Ebenezer, 50% on Magoebaskloof, and 20% on Tzaneen. Industrial and domestic users were cautioned to use water sparingly to avoid restrictions.

- Mpumalanga: 40% restriction on agricultural use and 20% on industrial and domestic use from Bronkhorstspruit Dam in the Olifants River catchment. Use from elsewhere in the Olifants and Upper Olifants rivers was also restricted by 20%.
 - A 60% restriction was imposed on agricultural use from surface and groundwater sources in the Inkomati Water Management Area.
- North West: Use from most dams was restricted by between 80 and 100%.
- Northern Cape: No restrictions were imposed on users from surface water storage.
- Western Cape: 20% restriction on all uses was maintained throughout most of the period, 100% restriction was imposed on agriculture towards the end of the period.

The situation is under continuous review throughout the country.

Ecological Condition of Rivers

Biological monitoring presents a holistic and integrated picture of the condition of a river by monitoring the condition of the animals and plants that live in or near it, and which continuously experience - and therefore reflect - the cumulative effects of variations in flow rate and water quality over extended periods of time.

Since its inception in 1994 the River Health Programme has collected data on the biological attributes of 24 rivers or groups of rivers throughout the country. The catchments of the rivers, the combined areas of which represent a little more than a quarter of South Africa's total land area, range from rural to heavily urbanised and industrialised. Data on the condition of the river channels and banks, and the plants and animals that inhabit them, is being collected at a total of about 280 monitoring sites selected to represent as closely as possible the whole of the river system, that is, the mainstem channel and tributaries, from the headwaters to the estuary.

A preliminary analysis of the data collected indicates that 6% of the rivers studied are in an overall Natural condition, 22% are good, 44% are fair, and 28% are in a poor condition. Almost all the rivers surveyed have some parts that are in an overall poor condition, predominantly those situated in, or downstream of, urban and industrial areas. Conversely, overall Natural conditions are found in

the relatively small and sparsely populated parts of rivers upstream of major human activities. At present this analysis is very coarse, and does not distinguish among the various attributes that make up the overall characterisation. A more rigorous and comprehensive analysis of the data and trends is underway, the results of which will be presented in the Annual Report for 2005/6.



Main Achievements

The purpose of water resources management is to ensure that the country's water resources are protected, used, developed, conserved, managed and controlled in a sustainable and equitable manner for the benefit of all people. The Programme's measurable objective is to ensure that water resources are allocated so that they promote social and economic development, maintain the reliable availability of water in sufficient quantities and of an appropriate quality to meet the needs of all consumers and meet international water-sharing agreements, whilst ensuring that water resources are protected to enable sustainable water use.

The Programme's activities are structured in a framework of key focus areas (KFAs) as follows -

- KFA 6: Ensure reliable and equitable supply of water for sustainable economic and social development including the eradication of poverty.
- KFA 7: Ensure the protection of water resources.
- KFA 8: Develop, implement and support effective water management institutions.
- KFA 9: Align staff, stakeholders and general public to a common vision for integrated water resources management (IWRM) and develop, capacitate and empower them to best practices.
- KFA 15: Promote integrated water resources management globally, particularly in Africa in support of NEPAD.

Some of the Programme's significant achievements during 2004/5 are described below, followed by a general summary of progress, in tabular format, against the intentions outlined in the Strategic Plan 2004/5.

The formal national framework for managing water resources was set in place when the National Water Resource Strategy, First Edition, 2004, was approved by Cabinet in September 2004, and established by Government Notice in January 2005.

The publication of nine more Internal Strategic Perspectives - departmentally-prepared forerunners of the catchment management strategies that will be prepared by the catchment management agencies - completed the coverage of sub-national management strategies for all 19 water management areas. Steps were taken to improve liaison arrangements with provincial planning authorities to ensure alignment between water management strategies and provincial growth and development strategies.

The process of establishing new international, national and catchment-based water management institutions was progressed during the period, thereby moving the Department towards its ultimate role of sector policy maker and regulator by facilitating international cooperation in shared river basins, separating operational and regulatory functions, and decentralising the responsibility for managing water resources.

At international level an agreement to establish the Limpopo Basin Commission was signed by South Africa, Botswana, Zimbabwe and Mozambique, all of whom share the waters of the basin.

Other international developments included the conclusion of agreements with Lesotho - at ministerial level - to proceed with the feasibility study for the second phase of the Lesotho Highlands water project, and to undertake joint basin studies of the Maputo basin (with Mozambique) and the Limpopo basin (with Mozambique, Zimbabwe and Botswana). The pre-feasibility study for a joint South Africa-Namibia management plan for the Lower Orange River was substantially completed.

The Department began the process of separating the management and further development of national water resources infrastructure from its other activities with preparations for establishing a new Infrastructure Branch with effect from 1 April 2005. A study of institutional options for the management of water resource infrastructure in South Africa and preparation of a business case

for the establishment of a new public entity - the National Water Resource Infrastructure Agency - were commenced, and are on track for consideration by Cabinet early in the next financial year.

At water management area level the Inkomati Catchment Management Agency was established by Government Notice, and nominations for the governing board were submitted to the Minister by the advisory committee. The proposal to establish a CMA in the Breede water management area was published for public comment in the Government Gazette. The Notice to establish a CMA in the Mvoti-Mzimkulu was approved by the Minister, and Notices to establish CMAs in the Crocodile West/Marico, Usutu-Mhlathuze and Thukela water management areas were in advanced stages of preparation

Ten new water user associations were established, and constitutions for a further four associations - for revitalised irrigation schemes in Limpopo Province - were in preparation. Ten existing irrigation boards were transformed into water user associations, and a further six transformation submissions were received for review and processing. Progress was made in arrangements to transfer operating and maintenance responsibilities for five government water schemes to water user associations - Boegoeberg, Kakamas, Lower Olifants, Sand-Vet and Van der Kloof - but there were delays in finalising staff transfer agreements in three of the schemes, whilst the other two requested deferral of transfer because they were experiencing drought-related difficulties.

The subsidy policy and programme of support to small-scale farmers was revised but targets for the number of farmers assisted were not achieved as implementation only commenced at the end of the reporting year.

The fourth consecutive year of sub-normal rainfall throughout most of the country necessitated continuing support to municipalities to deliver water services where sources - especially groundwater sources - had failed or were failing. In addition, construction of a pipeline to augment water supplies for industrial and industrial use was completed from the Rand Water supply system in Mamelodi to

Cullinan, and the extension to the Ekangala area was substantially completed. A pipeline between Morgenstond and Jericho dams, to augment water supplies to Eskom power stations on the eastern highveld, was also completed.

Other infrastructure developments included the finalisation of financing agreements for the funding of the Berg River Project in the Western Cape, where placing of embankment material and concrete to the outlet works commenced. The Olifants River Water Resources Development Project was approved by Cabinet, and design work on the De Hoop Dam on the Steelpoort River began. Design work also commenced on the pipeline from Vaal Dam, to improve assurance of supply to Eskom power stations and the SASOL complex in Mpumlanaga, after Cabinet approved the project. Work continued on the raising of Flag Boshielo Dam in Limpopo Province. Construction of the Nandoni Dam on the Levuvhu River was completed during the year. Work on the associated water treatment works and distribution network continued.

A number of new policies and strategies on various aspects of water use were developed during the period. The draft Policy for Water Allocation Reform for South Africa, designed to achieve equity in access to the use of water resources, was finalised and a national programme of public consultation commenced. The Policy on Financial Assistance to Resource-Poor Irrigation Farmers, which supplements the Water Allocation Reform programme by providing subsidies to new users to assist them to utilise their newly-acquired water, was approved by the Minister.

The ongoing drought has highlighted the vulnerability of groundwater resources to over-abstraction. A strategy to deal with unlawful water use by enforcing the conditions of use was piloted in dolomitic areas on the East Rand of Gauteng, North West and Northern Cape provinces.

The lengthy process of validating registered water use and verifying claimed existing lawful use was substantially completed in the Upper and Lower Vaal catchments and commenced in the Mhlathuze catchment.

The National Strategy for Water Conservation and Water Demand Management was finalised and published, together with subsidiary strategies for the Agriculture, Water Services, and Industry, Mining and Power Generation sectors. The Working for Water programme continued to address the problem of invasive alien vegetation by clearing around 142 500 hectares, following up on about 507 000 hectares of previously-cleared land, and provided about 12 000 person years of employment.

Work continued on the five-yearly review of the 1999 Water Pricing Strategy to, among other things, incorporate charges for waste discharge and the water research levy. After extensive consultation with key stakeholders a revised draft strategy was submitted to the Minister for approval prior to publication in the Government Gazette for public comment.

As part of measures to protect water resources, the requirements for a national system for classifying water resources were finalised and drafting has begun. High-confidence - "comprehensive" - preliminary Reserve determinations were initiated in four major catchments (Olifants/Doorn, Komati, Letaba, Kromme/Seekoie rivers) to support the water allocation reform programme, and lower confidence preliminary Reserve determinations were carried out in about 150 quaternary catchments to facilitate the evaluation of applications for water use licences. A number of baseline monitoring surveys and groundwater studies were initiated to support Reserve determinations.

A five-year plan was developed to facilitate the integration of all aspects of water resources monitoring, covering the quantity and quality of surface and groundwater, this was complemented by the development of improved methodologies to determine groundwater recharge, potential and use, and groundwater's interactions with surface water. The River Health Programme produced State of Rivers reports for the Buffalo (Eastern Cape), Crocodile West/Marico, Berg, Diep and Hout Bay rivers, bringing the total number of rivers and river systems studied by the programme to 24.

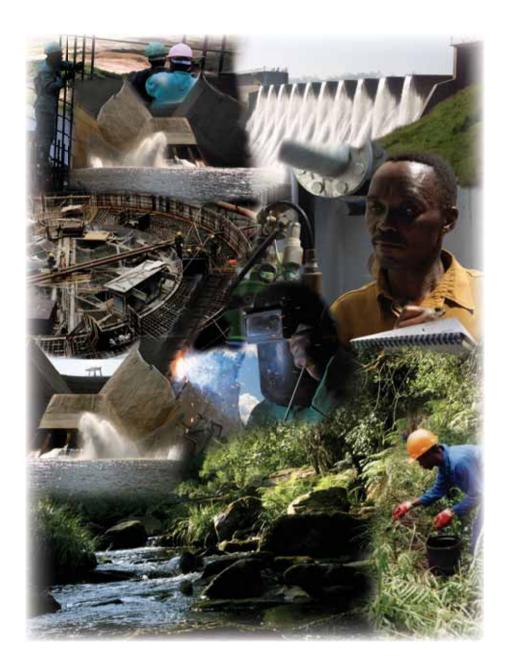


Table 6: Key Outputs and Service Delivery Trends

Key Focus Area (as per strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
6 Ensure reliable and equitable supply of water for sustainable economic and social development including the eradication of	Subsidy system for Water User Associations in respect of resource- poor farmers revised and 300 resource poor farmers subsidised	Subsidy spent effectively	Subsidy Policy revised and approved for implementation Subsidies granted to four groups of farmers (76 total) on the Leeu River Water User Association
poverty	Water use strategy for poverty eradication and rural development finalised	Strategy approved by WRFMC and programme initiated	Draft Policy for Water Allocation Reform for South Africa to achieve equity in access to the use of water resources finalised after consultation with key stakeholders, and national programme of public consultation commenced
	Water use license applications evaluated with average turnaround time of six months	License applications processed within reasonable time	150 abstraction and 100 stream flow reduction licence applications received, and processed within time frames
	Reconciliation options determined for compulsory licensing in 3 catchments	Approval by WRFMC	Models being set up for five catchments - modeling will be done during compulsory licensing
			Studies commenced for Vaal, Western cape, Crocodile West and Amatole systems
			Internal Strategic Perspectives (departmental forerunners of catchment management strategies) completed for all 19 water management areas
	Existing lawful use verified in nine catchments	Certification	Guideline on verification of existing lawful use completed
			Validating of registered water use and verification of claimed existing lawful use substantially completed in the Vaal catchment, and commenced in the Mhlathuze
	Water trading taking place within agreed policy and guidelines	Trades reported in Annual Report of DWAF	Guidelines on trading water use authorisations revised and approved
			159 licences surrendered to facilitate new applications (permanent trades), 11 in progress

	Key Focus Area (as per strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
6	Ensure reliable and equitable supply of water for sustainable	Compliance with conditions of water use authorisations visibly enforced	Directives issued for clearly defined cases	Development of procedures to enforce conditions of use in general authorisations in licences finalised
	economic and social development including the eradication of			Approach piloted in dolomitic areas on the East Rand, and preparations in hand to curtail misuse in the North West and Northern Cape provinces
	poverty	100% compliance with infrastructure operating rules as determined	Operating rules to accommodate determined Reserve (IFR) flows established	Development of operating rules in progress for dams in catchments for which comprehensive Reserve determinations have been completed
		Water supplied in accordance with agreements with users	Registration certificates in place	Commitments to bulk water users and water boards met
				Water supplied in accordance with drought conditions to agricultural users
		Revision of raw water pricing strategy incorporating Waste Discharge Charge System	Draft strategy approved by WRFMC	1999 Water Pricing Strategy revised to incorporate charges for waste discharge and the water research levy, consulted with key stakeholders and submitted to the Minister for approval prior to publication in the Government Gazette for public comment
		Water quality guidelines for use reviewed	Approved by WRFMC	Review and revision of guidelines for all sectors in progress
		10% increase in water use efficiency on government water schemes	Measurable reduction in water use	The National Strategy for Water Conservation and Water Demand Management, and subsidiary strategies for the Agriculture, Water Services, and Industry, Mining and Power Generation sectors finalised and publiched
		Joint pre-commitment study on LHWP further phases 50% completed	Agreement between the two countries	Ministerial-level agreement with Lesotho to proceed with the feasibility study for the second phase
		Agreement between RSA and Namibia on Management Plan for Lower Orange River	Plan submitted to authorities	Joint prefeasibility study completed
		Joint study on Maputo River basin undertaken	Acceptance of report by Maputo Basin Permanent Technical Committee	Agreement reached with Mozambique to proceed with the study
				Study in progress
		Demographic scenarios reviewed	Report to WRFMC	Review completed, report prepared, revisions in progress

	Key Focus Area (as per strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
6	Ensure reliable and equitable supply of	Water demand scenarios reviewed	Report to WRFMC	Work included in larger reconciliation studies (see above)
	water for sustainable economic and social development including the eradication of poverty	Vaal Management options investigated	Acceptance of inception report by WRFMC	Prefeasibility/bridging study on the augmentation of the Eastern Vaal Sub-System via a pipeline from Vaal Dam to Secunda completed and all study reports finalised
		Prefeasibility and feasibility reports	Approval by WRFMC	12 studies completed
		on reconciliation solutions completed for 12 studies		Five new studies started
		Invasive alien vegetation treated and	Working for Water Information	142 500 hectares of invasive alien vegetation cleared
		cleared in 750 000 hectares (new and follow up areas)	Management System & Key Performance Indicator data	Follow-up clearance of 507 000 hectares
			reports	About 12 000 person years of employment provided
		Water conservation & WDM developed and implemented by 20 Water Management & Water Service Institutions supported by DWAF	Number of Water Management Institutions & Water Service Institutions who initiated the program	National Strategy for Water Conservation and Water Demand Management finalised and published, together with subsidiary strategies for the Agriculture, Water Services, and Industry, Mining and Power Generation sectors
		Start on Berg River Water Project Commission Nandoni Dam Continue raising of Flag Boshielo Dam	Compliance with implementation plans and budgets	Financing agreements finalised
				Placing of embankment material and concrete to the outlet works commenced
				Nandoni Dam commissioned
				Construction approximately 35% complete
		Dam safety legislation administered and dam safety programme managed	Reports on compliance with dam safety legislation	92% of registered dams with a safety risk (4 203) classified to date
		Emergency pollution incidents	Directives met	50 dam safety inspection reports completed
		remedied		Remedial work completed on Bulshoek Dam, and underway at Damini, Jan Tshatsu and Flag Boshielo dams
		Strategies and implementation guidelines on flood management substantially complete	Approved by WRFMC	All reported incidents dealt with in accordance with departmental policy and procedures

	Focus Area strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
6 Ensure rel equitable water for economic	supply of sustainable	Strategies and guidelines on drought management substantially complete	Approval by WRFMC	Progress limited due to staff involvement with coordinating support to countries impacted by the December 2004 Indian Ocean tsunami
developme the eradic	ent including	Existing Water Management Area (WMA) disaster management plans reviewed. Three new WMA plans	Plans approved by National Disaster Management Centre	Progress limited due to staff involvement with managing ongoing and widespread drought conditions
poverty		developed		Progress on hold pending analysis of the requirements of the recently established National Disaster Management Framework
		Support departmental public safety unit development, implementation and co-ordination	Approved by MANCO	Establishment of Unit on hold pending analysis of the requirements of the recently established National Disaster Management Framework
7 Ensure the of water re	e protection esources	Guidelines for effective WQM catchment studies developed and pilot completed at catchment scale	Approved by WRFMC	Guidelines developed and approved
		Framework for classification system developed	Approved document published in Government Gazette	Requirements for a national system for classifying water resources finalised and drafting commenced
		Reserves determined for compulsary licensing in 5 priority catchments and ad hoc Reserves determined	Approved by Director General	High-confidence - "comprehensive" - preliminary Reserve determinations initiated in four major catchments (Olifants/Doorn, Komati, Letaba, Kromme/Seekoie rivers)
				Lower confidence preliminary Reserve determinations carried out in about 150 quaternary catchments to facilitate the evaluation of applications for water use licences
				A number of baseline monitoring surveys and groundwater studies initiated to support Reserve determinations
		Framework for systematic conservation of SA rivers developed	Approved by WRFMC	Background information compiled, development of framework completed, and policy development initiated
		Riverine vegetation policies developed	Approved by WRFMC	Wetlands delineation guidelines finalised and approved
		Procedures for operationalising Reserve completed	Approved by WRFMC	Development of desk-top Reserve methodology for estuaries finalised and approved, and for wetlands in progress

Key Focus Area (as per strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
7 Ensure the protection of water resources	Resource Quality Objectives procedures revised in line with classification system	Approved by WRFMC Recommendations approved by WRFMC	Procedures to develop resource quality objectives harmonised with resource-directed measures procedures
	Quantification of dependency of terrestrial ecosystems on groundwater commenced in two pilot areas	Recommendations approved by WRFMC	Project was initiated, based on the results of previous work by the Water Research Commission
	Ad hoc groundwater resource Reserves determined	Approved by Director General	Groundwater Reserves determined for all ad hoc licence applications submitted
	Feasibility study complete for groundwater protection zoning for important/vulnerable groundwater systems	Accepted by Local Government	Development of policy for groundwater protection zoning initiated
	Waste disposal permits issued in accordance with latest edition minimum requirements	Permit register maintained to reflect status of permit issuing	Permit applications processed in accordance with approved national minimum standards
	Construction of pollution control works for Grootdraai Dam and Sand- Spruit catchment on schedule	Annual review undertaken	Construction work in progress and on schedule
	Manual for the assessment of impact of land-based activities on water	Approved by WRFMC	The impact of land-based activities in all 19 water management areas has been analysed
	resources developed		Preparation of manual initiated
	Revision of 2nd Edition of minimum	Approval by WRFMC	Preparation of 3rd Edition in progress
	requirements for waste disposal facilities (auditing, training and operation)		New minimum standards developed for auditing, training, and disposal site upgrading
	Implementation of the Dense Settlements Strategy in identified communities	Reduction of water pollution in identified communities	Priority areas identified for implementation of strategy
	Regulations for water care works developed	Regulations promulgated	Regulations to control works, and for operator skills levels established in terms of the National Water Act

	Key Focus Area (as per strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
8	Develop effective water management institutions	Operation and maintenance of transferred schemes delegated to Water User ssociations with contracts in place	Approved by Minister	Transfer agreements for Boegoeberg, Kakamas, Lower Olifants, Sand-Vet and Van der Kloof water user associations ready for implementation
		75% of potential Water Resources Revenue collected	Income realised	78.9 % of potential revenue collected
		5 CMAs established	Governing Board appointed by Minister	Inkomati CMA established by Government Notice, and nominations for the Governing Board submitted to the Minister
				Proposal to establish the Breede CMA published for public comment
				Notices to establish the Mvoti-Mzimkulu, Crocodile West/Marico, Usutu/Mhlathuze and Thukela CMAs prepared for publication
			Constitutions approved by	Ten new WUAs established
		poor farmers	Minister	Constitutions for four WUAs - for revitalised irrigation schemes in Limpopo Province - in preparation
		All Irrigation Boards transformed into Water User Associations	Constitutions approved by Minister	Ten irrigation boards transformed
				Six submissions for transformation received and being processed
		Performance criteria for CMAs and WUAs developed	Approval by WRFMC	Development of performance criteria in progress
		Procedures for NWRS review established, including framework for	Approved by WRFMC	National Water Resource Strategy, First Edition, established by Government Notice in January 2005
		state of water resources reporting		Compilation of information for 2nd Edition commenced
		Annual Report on Consolidated Environmental Implementation Management Plan (CEIMP) prepared	Approved by Director General	Annual Report compiled, approved and submitted to Committee for Environmental Coordination

	Key Focus Area (as per strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
9	Align staff, stakeholders and general public to a	Awareness on new developments in IWRM (e.g. climate change, rainfall	Reports approved by WRFMC	Representation on Government and National Climate Change Committees
	common vision for Integrated Water Resource Management	augmentation, desertification, etc) maintained		Water-related inputs to SA's National Climate Change Response Strategy (prepared by DEAT as lead agent)
	(IWRM) and develop, capacitate and empower them to best			Participation in WRC research project into the implications of climate change on water resources
	practices			No progress on rainfall augmentation or desertification
		Implementation of the NWA and related legislation co-ordinated (including alignment with other relevant legislation) and co-ordination across WRM	Achievement of KPIs assessed through Monitoring and Coordination System (MCS)	Project to develop framework for coordination initiated
		Guidelines for information management in WR studies (carried out under 6.3) tested	Approved by the WRFMC	Inventory of water resources studies in DWAF initiated
		Water Resource Monitoring Assessment and Information Strategy	Approved by WRFMC	Systems Analysis Scoping document was approved by WRFMC
		(WRMAIS) revised and aligned to new needs		Further work pended until information systems governance structures are developed
		Framework for addressing historical social impacts of existing dams 50% complete	Development proceeding according to plan	Inception report completed, background information compiled, stakeholders consulted, approaches and methodology developed, finalisation of Framework well-advanced
		Generic guidelines produced for catchment management strategies	Approved by WRFMC	Project to develop generic guidelines initiated
		Evaluation and development of catchment analysis tools/models to support water resources planning processes	Tools being applied	Steering committee to evaluate models and tools established
		Guidelines and standards developed for water resources information and provision of information	Internally applied	No progress: work rescheduled to next period

	Key Focus Area (as per strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
9	Align staff, stakeholders and general public to a common vision for Integrated Water Resource Management	Surface and ground water quantity and quality monitoring systems maintained, upgraded and expanded by 5%	Increased data available	Five-year plan for the Resource Quality Monitoring Systems was developed and approved by WRFMC
	(IWRM) and develop, capacitate and empower them to best practices	New and special integrated water resources monitoring programmes developed as required	Programmes approved by WRFMC	Development of toxicology and radioactivity monitoring systems progressed and on track
	produces	Information systems upgraded and maintained, and the possibilities to interlink existing systems investigated	Approved realignment of development plans	All systems maintained, some systems upgraded, but interlinking on hold pending development of information system governance model
		Comprehensive long-term plan for the development of computerised decision-support systems for water resources planning in place	5 year plan approved	Five-year Water Resources Monitoring Plan developed and approved
		Effective flood and drought management system in place	Internally applied	Pilot system developed and operational in DWAF and National Disaster Management Centre, but further development limited due to capacity constraints
		Skills development, mentoring and HRacquisition plan implemented and monitored according to Equity and Black Economic Empowerment (BEE) requirements	75% of posts filled	Appointment and training of staff in accordance with employment equity requirements
		Capacity building programmes developed for stakeholder empowermentin IWRM	Materials developed and courses presented	Strategy for stakeholder capacitation being developed under the Water Allocation Reform Programme
		Inventory of training programmes compiled	Approved by WRFMC	Compilation of inventory in progress
		RDM and Groundwater training networks in place and operational	Training material produced	RDM and Groundwater training networks operating under the Framework for Education and Training in Water (FETWater)
		Framework to guide stakeholders in water resources management developed	Materials produced and disseminated	Development of Social Assessment and Development Framework for stakeholder empowerment nearing completion
		Informed stakeholder participation in forums, Water User Associations, etc	Quality of stakeholder inputs enhanced	Strategy being developed to promote informed participation in all water management institutions

	Key Focus Area (as per strategic plan)	Outputs	Service Delivery Indicators	Actual Performance
15	Promote IWRM in Africa in support of NEDPAD	Limpopo commission established	Agreements signed byrelevant countries	Agreement signed by South Africa, Botswana, Zimbabwe and Mozambique
		Agreement with Namibia on Lower Orange River Good participation in and support to AMCOW and SADC structures	Regional programmes approved and implemented	Negotiations towards an agreement in progress with Namibia
		Improved co-operation with	Improved co-operation with	Participation in ANCOW Inter-ministerial Council
		developing countries	developing countries	Participation in SADC policy formulation
				Project Manager for SADC Hycos identified but not yet appointed
				Ministerial visits to China and official visits to China and Cuba
				Agreement with Cuba being implemented
				Memorandum of Understanding with China under negotiation
		Improved relationships with international and multilateral organisation	Regular exchange of information	Secondment agreement with African Devleopment Bank under negotiation
		EU financing agreement in place	Official Development Assistance (ODA) agreements concluded	Agreement in place (implemented by Water Services)
		Ongoing advocacy activity around IWRM to influence international debate	Concepts appear in outcome documents	Effective participation in UN Commission for Sustainable Development 13 and Millennium Project
		G8 support to AMCOW in place	Financing agreements signed	Participation in AMCOW Technical Advisory Committee activities