



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

EdTM

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MINISTER OF WATER AND SANITATION

NATIONAL ASSEMBLY: QUESTION 428 FOR WRITTEN REPLY.

A draft reply to the above mentioned question asked by Ms T E Baker (DA) is attached for your consideration.

DIRECTOR-GENERAL

DATE:

6/3/16

DRAFT REPLY APPROVED/AMENDED

MRS NR MOKONYANE
MINISTER OF WATER AND SANITATION

DATE:

17-03-16

NATIONAL ASSEMBLY

FOR WRITTEN REPLY

QUESTION NO 428

DATE OF PUBLICATION IN INTERNAL QUESTION PAPER: 19 FEBRUARY 2016
(INTERNAL QUESTION PAPER NO. 2)

428. Ms T E Baker (DA) to ask the Minister of Water and Sanitation:

- (1) (a) Which towns in each province have been affected by water shortages during the period 1 June 2015 to 15 February 2016 and (b) what intervention measures were put in place by her department to assist the relevant communities with the provision of water;
- (2) (a) which dams in each province ran dry during the period 1 June 2015 to 15 February 2016, (b) which towns and/or communities were affected and (c) what is the current status of each dam?
NW441E

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REPLY:

- (1) Refer to **Table 1** below for towns in each province affected by water shortages and intervention measures.
- (2) Refer to **Table 2** below for the dams in each province which ran dry during the period 1 June 2015 to 15 February 2016, the affected communities and the current status of each dam.

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Table 1. Towns in each province affected by water shortages and intervention measures

Province	Towns Affected	Intervention measures
<p>Northern Cape</p>	<p>Philandersbron, Welkom and Groot/Klein Mier, VanWyksvlei, Bendell, Deurham, Ditshipeng, Gamorona, Gamokatedi, Gasehunelo, Ganap, Glenred, Heuningsvlei, Laxey, Kilokilo, Metsimatse Wyk 1, Klipham, Kome, Lethakajaneng, Loopeng, Madibeng, Magojaneng, Saamsukkel, Tsiloane, Van Zylsrus, Tweed, Klein Eiffel, Eiffel, Sydney, Dealand Tsinengkop</p> <p>Dikgatlong, Magareng, Phokwane, Maruping, Brandvlei, Loeriesfontein, Calvinia, Garies, Klipfontein, Spoegrivier, Hondeklip Bay, Eksteenfontein, Lekkersing, De Aar, Strydenburg, Blaauwskop, Warmsand, Eenduin, 7de laan, McTaggerskamp, Noudonsies and Eksteenskui, Eilande</p>	<ul style="list-style-type: none"> • Rainwater harvesting tanks have been installed at present for the benefit of indigent households. • Drilling of boreholes was done as part of the bulk infrastructure program • Refurbishing of non-functional boreholes • Water is supplied by tankers to some of these affected communities
<p>Free State</p>	<p>Kroonstad, Viljoenskroon, Steynsrus, Brandfort, Winburg, Verkeerdevlei, Boshof, Dealsville, Bloemfontein, ThabaNchu, Botshabelo, Fouriesburg, Rosendal, Kestell, Qwaqwa, FicaPatso, Ladybrand, Excelsior, Tweespruit, Hobhouse, ThabaPatshoa, PetrusSteyn, Lindley, Arington, Vrede, Memel, Ficksburg, Clocolan, Marquard, Senekal, Phillipolis, Bethulie, Springfontein, Trompsburg, Petrusburg, Smithfield,</p> <p>Dewetsdorp, Wepener, Vanstadensrus, Bethany, Fauresmith, Jackobsdal, Koppies, Kroonstad, Oranjeville, Parys, Theunissen, Vredefort, Warden, Winburg, Zastron, Soutpan</p>	<ul style="list-style-type: none"> • Katse dam water released since early August 2015 • Groundwater augmentation • Welbedacht dam water release in early January 2016 • Drilling of boreholes • Boreholes were equipped and connected. • Sterkfontein water scheme project is providing water • 12 DWS and municipalities' water tankers provided to relieve water crisis • Water released through Orange River • Restrictions gazetted for 5 dams and 1 system (3 dams) • 32 Boreholes equipped and connected.
<p>Mpumalanga</p>	<p>Mbuzini, Gomora, Magogeni, Managa, Mgobode, Dludluma, Jeppes, Reef, Schoemansdal, Buffelspruit, Driekoppies, Langeloop, Aniva, Steenbok, Louville, Hectospruit, Komatipoort, Malelane, Marloth Park, Badfontein, Draaikraal, Shaga, Boschfontein, matibidi, Moremela, Leroro, Madubula, Rainbow ZFarm, Mahiyane, KaMashayane, Silver Creek, Mfaliyane, Honeybird, Siyalima, Sheba, Paradors, Noordkaap, Mandela Place, Mlambongwane, Castlekop, Hangingstone, Goedehoop, Kamadakwa, Ndlovu, Dixie Farm, Mandela Village (Maviljan),</p>	<ul style="list-style-type: none"> • 29 new boreholes drilled to augment surface water supply • boreholes refurbishment: 107 • 91 Static tanks provided • Rehabilitation of Queens River Pump Station and SuidKaap WTW was completed and commissioned and Five (5) kilometre bulk pipeline complete linking Queens river pump station and Suidkaap Water Treatment

Province	Towns Affected	Intervention measures
	<p>Mamba Mencisi, GaRelani, Violet bank, Koffi (shatale), Zoeknog A & B, Benoni, Zimbabwe, Mahashe, Tsakane/Greenvalley, Cottondale/Isington, Burlington, Mambumbu/Zola/Songeni, Role, Kumani, MP Stream, Hluvukani, Newington, Xanitha, Agincourt, Metsi, Ximhungwe, Kildare, Huntington, Lilydale, Belfast, Cork, Sommerset, Mashonamini, Madras, Goromane, Mkhulu A & B, Cargo Inn, Jimbrown, Carlton, Mathibela, Alexandra, Takamahala, Oakley, Chavelagaza, Thushaneng, Cunningsmore A, Cunningsmore B, Morongwane, Mphenyatsatsi Township, Newforest, Sibabayana, Tsuvulani, Edinburg, Leratong/Zakheni, Kwagafontein/ Emasimini, Vreisgewaght, Kleipfontein, Suncity D, Mandela, Msholzi, Pankop/Masobe, Rakaile, Phake-Thabeng, Mamethake, Nokaneng, Katjibane, Seabe, Greenside, Marapyane, Ramantsho, Loding, Semottlase, Malopoamogale/Kameelpoort, KwaMakola, Kgaphamadi, Wonderfontein, Tweeloop, Sycamore, Paardeplaats, Zwartkoppies, Waaikraal, Sewefontein, Groenvlei, Lothaire/Silindile, Sheepmore, Sheepmore, Warburton, Skaaprouse, Elm Tree, Biermani, Cederfont, Groenvlei, Keslek, Pamietkui, Rietvlei, Rondavel, Rooikoppies, Platokop 1, Maizefield, Uitkom, KwaMathibela, De Kuiten, Platrand, KwaMadlebe, Wolfespruit (Mkhwanazi), majjobeni, Katdoornkraal, Morakane, Mkomeni, Emnyama, Sterkfontein, Vaalvrede, Alzu borehole, Matafuleni, Tshondo, St Helena, Msinyane, Bushman band, Sgudada, Derby-ntintinyane, Derby-marondweni, Dalia, Kamavumbuka, Emakhwabeni, Haarlem, Newportoli, Groenfontein, Mooihoek, Madola, Matsheni, Bothashope, Sunbank, Athalia, Bergplaas, KwaMagadla, KaJesus, Qalokusha, Kwarati, Aggendrift, Moolman, Alman, Congo, Vezokuhle, Berbice, Kwashuku, Esiqhintini, Ezintabeni Ezimnyanma, Jikagogo, Bakenkop-Kwanyisi, Madanca, Madabukela, Kafiti, Stafford, Sihanahana, Emaswazini. Elandsport, Wolwspruit, Parmiford, KoppieAleen, Rust Hoek, Elandfontein, Odewood farm, Smooltlof, Voorseg, Ekukhanyeni, Schuihoek, Mabhondo, Brontol, Rust Hoek, Thuthukani, Oodendal rust B, MinigScheilhoek, Sterkfoutein VK, Spitkop, Sckoongeseg, Wakk-sitaion, Duck in farm, Gunmwane, 51 plot, Verkerk 1, Sunspruit, Lowra farm, Elandfontein/Rooipot, Vemrky far,</p>	<p>Plant. Construction of 2 reservoirs and drying bed in progress.</p> <ul style="list-style-type: none"> Restrictions gazette for 6 dams (including 1 system) and being prepared for 2 more systems.

Province	Towns Affected	Intervention measures
KwaZulu-Natal	<p>Rooiport farm, Uitkyk farm, Goedeluk, Kaffieskraal, Kalfantein, Vleifontein, Kalfontein, Mooifontein, Rietspruit A, Goodewoop farm, Zamokuhle, Rietspruit, Welgelegen Farm, Enon farm, Emabhosi farm, Somershoek, Bethamoya, Mzwele, Kalkoenkraas, Valpoort, Fickland, Verkyk, Daggakraal, Skurwepoort, Vaalbank, Njusuthu, Syde, Nordeen, Ndonga, Mafufumbe, Mandela, Sthobile Robisdale, Hartebeeskop, Ermganwini, Sincobile, Redhill, Waverley, Faith Mission, Nhlaba, Ngonini, Josephdale, Khuzulwandle, Elukwatini</p> <p>Durban (North), Tongaat, Ballito, KwaDukuza, Mandeni, Maphumulo, Kokstad, Ixopo, Port Shepstone, Kelso, Pennington, Scottburgh, Sezela, Umdoni, Harding, Hluhluwe, KwaMisanu Mthubathuba, St Lucia, Greytown, Melmoth, Eshowe, Vryheid, Nongoma, Ulundi, Hlabisa, Jozini, Manguzi, Ndwedwe, Manguzi, Dundee, Msinga, Nquthu, Greytown, eNhlalakahle, Sithermbile Emnambithi/Ladysmith, Imbabazane, Indaka, Okhahlamba, Umtshezi, Wembezi, Melmoth, Nkandla, Ntambanana, Mambuka, Dlangubo, Richardsbay, Esikhaleni, Empangeni, Ngwelezana, kwaDlangezwa, Eshowe, Vryheid, eDumbe, Obivane, Tholakele, Bellavista, Mfenyane, Nongoma, Ulundi, uPhongolo</p> <p>Ingwe, KwaSani, Ubuhlebezwe, Umzimkhulu Ezingoleni, Umdoni, uMuziwabantu, Umzumbi Vulamehlo, Impendle, Mkhambathini, Mpofana, Richmond, Msunduzi, uMngeni, uMshwathi, Umhlabuyalingana</p>	<ul style="list-style-type: none"> • The Department with the Provincial CoGTA's Disaster Management Unit has established Joint Operating Committees to assess the options to ensure water shortages are not experienced in each supply system. • Drought operating rules have been developed for systems supplied by dams and are being implemented. • Other measures include implementation of water restrictions, augmentation of supplies through boreholes and transfer systems, active leak detection and pressure management and the installation of water restrictors. • In some areas where the required water savings have not been achieved, water supplies have been limited and static tanks installed to ensure access to water • 53DWS tankers deployed, 86 new boreholes drilled, 80 springs protected. • 464 Static tanks with stands have been purchased and installed at various communal points. • Restrictions gazette for 8 dams and 2 systems (6 dams) • 38 500 restrictors installed in 4 Local Municipalities. • In Amajuba DM, water is released from Ntshingwayo Dam to support several towns. • In iLembe DM water is transferred from uThongathi River to augment Hazelmere dam. • Several water schemes have been repaired and many smaller repairs are being made to schemes. • In Ugu DM, water is being transferred from Mpambanyoni River. • In Umgungundlovu DM phase 2 of the Ophathe water supply scheme is underway.

Province	Towns Affected	Intervention measures
		<ul style="list-style-type: none"> In Umkhanyakude DM construction and refurbishment of the Shemula rising main is underway, the refurbishment of the kwaMsane pipeline, a new pipeline from the existing Mtubatuba Heights reservoir to the existing KwaMsane reservoirs and the upgrading of the Hluhluwe phase 2 WTW from a 1.8ML/d to a 3.8ML/d package treatment plant. In the Umzingyati DM, water is released from Nshingwayo Dam, and a pump station is installed at Tayside. In the Unthungulu DM, water is transferred from Ufhukela to supplement Goedertrouw Dam. In Zululand DM, water is being released from Klipfontein dam for Vryheid and Ulundi, and water is being transferred from Jozini Dam for Nongoma
Eastern Cape	<p>Matatiele, Mbizana, Ntabankulu, Umzimvubu, Mbhashe, Mquma, Amahlathi, Emalaheni, Inkwanca, Lukhanji, Engcobo, Intsika Yethu, Inxuba, Yethemba, Sakhisizwe, Tsolwana, Elundini, Gariep, Maletswai, Senqu, Aliwal North, Elundini, Mhlontlo, Ngquza Hill, Nyandeni, Port St Johns, King Sabata Dalindyebo</p>	<ul style="list-style-type: none"> Refurbishment of boreholes Drilling, testing and equipping of new boreholes Water Conservation and Water Demand management programs (War on Leaks) Fast tracking of completing and commissioning Water Treatment Works (Chulunca, Mnceba, Installing new connections to reticulation systems like the delivery from Ludeke Dam Emergency bulk water pipelines like Mbase North to Dutwa WTW, Xilinxo to Gcuma weir, Deployment of 11 DWS water tankers Desilting and replacing pipelines Increase storage capacity and upgrade Cala Package plant Hydrosensus undertaken in Joe Gqabi DM Desiltation of dams like Chippinisklip Upgrade of water supplies like Burgersdorp/Steynsville Restrictions gazetted for 1 system and 9 more being prepared. Water released from Katze Dam brought relief and assist in redirecting resources to Mount Fletcher

Province	Towns Affected	Intervention measures
Western Cape	<p>Ceres, Tulbagh, Klaarstroom, LeeuGamka, Dysseisdorp and De Rust, Vredendal, Klawer, Clanwilliam, Lutzville, Citrusdal, Malmesbury, Mooresburg, Piketberg, Vredenburg, Saldanha, Velddrift, Knysna, Breede Valley, Drakenstein, Stellenbosch, Witzenberg, City of Cape Town, Bergrivier, Cederberg, Matzikama, Saldana Bay, Swartland</p>	<ul style="list-style-type: none"> • Emergency transfer from Mooi River to WTW • DWS is re-prioritizing its financial support to assist these municipalities with infrastructure e.g. leaking bulk water pipes, incorporation of groundwater to augment water supply. • Water restrictions and awareness campaigns are in place to prolong the period of supply in these Municipalities. • These Municipalities are also assisted with information and guidance to assist in making informed decisions regarding water supply. • Restrictions gazette for 1 dam and 1 system.
Gauteng	<p>Alexandra Park Res, Signal Hill, Bedfordview, Empire Palace, Isando, Kempton South, Germiston (Low Pressure in some areas), Spartan, Bonaeropark, Edleen, Bichley Area, Brandwood, Sunny Ridge, Primrose South, Chloorkop, Ester Park, City of Tshwane, Forest Hill, Town View, Chrisville, Robertsham, Rossetentville, Half of Winchester Hills , Turfontein, Forest Hill Tower, Oakdene, South Hills, Tulisa Park, Linmeyer, Risana, Moffatt View, Hursthill Areas Sharpville, Nordic, Meyerton-Midvaal, Meyerton Park (Samacor), EMSA, Riverside-Midvaal, Evaton, Sebokeng North, Ironsides, Eaton, boipatong, Bophelong, Emfulenie, Evalton, Golden gardens, Johandeo, lakeside, Sebokeng, Sharpville, Stretford, Tshepiso, Vaal Oewer, Vanderbijlpark, Vereeniging</p>	<ul style="list-style-type: none"> • Water is being released from Sterkfontein Dam to Val Dam. • Currently all drought alleviation activities are coordinated with, and implemented by municipalities. • In general, consumers were requested to stop watering gardens, filling swimming pools, washing of pavements and to repair leaks; • In several areas level one restrictions are imposed and residents are urged not to water gardens between 06:00 and 18:00, was cars with hosepipes or fill swimming pools. • Static tanks are placed at selected points; • At least one tender was published for the drilling of boreholes by a municipality. • Studies are being conducted for the water network integration to enable water supply to be shifted from one network to the other in order to build redundancies in the system to improve operational resilience • Tankers are provided for critical facilities that were currently affected . • An office hour Joint Operations Centre (JOC) was established at the Joburg Water (JW) offices on 17 Marshall Street, Johannesburg. This facility serves as a nodal point for information

Province	Towns Affected	Intervention measures
Limpopo	Roedtan, Groblersdal, Marble Hall, Mookgopong, Modimolle, Thabazimbi, Lephalele, Mokopane, Tzaneen, Giyani Sibasa, Thohoyandou, Polokwane, Alldays, Dendron, Botlokwa, Bakenberg, Lebowakgomo, Makhado, Mutale, Roedtan	<ul style="list-style-type: none"> • A principle agreement was reached between District and its constituent local municipalities for the provision of potable water in the event of any eventualities in the Region; • Disaster Management Officers are tasked with the responsibility to physically monitor any possible or related drought incidents through the established Volunteer Units; • Daily early warning systems are circulated through the Short Messaging System (SMS) to all stakeholders in some Districts; • Awareness campaigns are currently underway through the distribution of pamphlets, local newspapers and ward councillors across the municipal areas.
North West	SweitzerReneke, Naledi, Ottosdal, Sannieshof, Delarayville, Zeerust, Mahikeng, Vyburg, Koster, Swartruggens, Brits, Jericho and Majakaneng, Fafung, Waariekraal, Jonathan and Klipvoorstad, Mapapatle, Boitekong, Maquasi Hill, Potchefstroom, Ventersdorp, Taung, Wentzel, Taung, Majemantsho, Mokgobistad, Mashutle, Motswedi, Dinoka, Khumutwane, Mosweu, Lekubu, Driefontein, Mokgola, Gopane, Pitsane, Greysdorp, Majaneng, Lichtenburg, Mafikeng, Pomfret, Ratlou, Sannieshof	<p>Water restrictions implemented, Requests for funding for tankering and drilling boreholes compiled & submitted. Restrictions have been gazette for 8 dams and 1 more is being prepared</p> <ul style="list-style-type: none"> • The Department is providing support to the affected Municipalities through water trucks, water tanks and restore the water supply through drilling and equipping of boreholes. • 12 DWS tankers have been deployed • Restrictions have been published for 9 dams. • Intensification of the WCWDM programs, e.g. leak detection and repairs (War on leaks). • Drilling of boreholes • Construction of the Brits WTW • Water augmentation inMabokoloka • Maquasi Hills bulk water supply scheme completed. • Ventersdorp Bulk Water Supply scheme completed. • Taung/Naledi BWS completed • RBIG programmes underway.

Table 2: (a) Dams in each province which ran dry during the period 1 June 2015 to 15 February 2016, (b) which towns and/or communities were affected and (c) what is the current status of each dam?

Province	Dams	Communities Affected	Current Situation
Northern Cape	None		
Free State	Allemanskraal	Ventersburg	13.7%
	Armenia	Hobhouse	10.9%
	Erfenis	Theunisen, Brandfort, Bultfontein	9.3%
	Fiak-Patso	Qwaqwa	17.4%
	Groothoek	Mangaung	0%
	Kalkfontein	Koffiefontein, Luckhoff, Oppermansgronde, Jacobsdal, Fauresmith, Jaggfontein.	6.2%
	Knellpoort	Bloemfontein, Thaba Nchu, Botsabelo.	33.4%
	Koppies	Koppies, Vijoenskroon	39.4%
	Krugersdrift	Bloemfontein, Thaba Nchu, Botsabelo	7%
	Rustfontein	Bloemfontein, Thaba Nchu, Botsabelo	20.5%
	Tierpoort	Bloemfontein, Thaba Nchu, Botsabelo	0%
Mpumalanga	Lomati	Bosfontein, Schuzendal, Magogeni, Mananga, Mgobodi, Dludluma, Amsterdam, Volksrust, Umjindi, Nkomazi, Nkomazi, Mkhondo, Pixley ka Isaka	Dry
	Mbambiso		Dry
	Mbuzini		Dry
	Gabosch		Dry
	Skuilhoek		Dry
KwaZulu-Natal	Harding	Harding area	Below 30 %
	Umzinto	Scottsburg, Kelso, Pennington, Umdoni, Sezela.	100%
	Dumbe	Greytown, Ixopo, Kokstad, Harding, Port Shepstone, Hluhluwe, Glencoe, Hattingh Spruit, Dundee, Nquthu, Msinga, eDumbe, Hlabisa, Mbazwana, Ingwavuma, Ballito Maphumulo, KwaDukuza, Mthubathuba, KwaMsane, St Lucia, Vryheid, Ulundi, Eshowe, Melmoth, Nongoma	0%
	Vuna		0%
	Melmorth		0%
	Donald Mchardy		0%
	Prestine Pan		0%
	Velrdruk		0%
	Tom Worthington		0%
	Bloemfeld		0%
	Lake Merthley		Below 30%
	Hazelmere		Tongaat Durban North
Eastern Cape	Dutywa	Golfcourse dam, Mputi&Ngxakaxa Dam	20% on average
	Aliwal North	Orange River ran dry	River flowing normally again

Province	Dams	Communities Affected	Current Situation
	Lady Grey	Lady Grey Dam	50%
	Maclear	Aucamp dam & Town Dam	30%
	Mount Fletcher	Mount Fletcher Dam	Full, but 70% silted
	Dordrecht	Dordrecht Dam	Still very low- exact level not gauged.
	Matatiele	Mountain Dam	20% - exact level not gauged. Connected pipeline to Mountain Lake, tankering.
	Ngeleni	Nzwakazi Dam	Still very low- exact level not gauged.
North West	Swartruggens	Borelelo, Ipelegeng, Glaudia, Atamelang, Mathibestad, Khunotswane, Ganyesa, Pomfret, Morokweng, Ga-maloka, Tshidilamolomo, Setlagole, Lekoko, Makhubung, Majemantsho, Lomanyaneng, Phitsane, Masutle, Motswedi, Rietpan, Ntsweletsoku, Setete, Welbedatch, Letsopa, Geysdorp, Khunwana, Sannieshof, Delareyville, Taung, Karelstad, Diplankeng, Lokgabeng, Mathanthanyaneng, Gamokake, Lothwanyeng	0.3%
	Molatedi		7.2%
	Disaneng		35%
	Koster		37.9%
	Madikwe		22.7%
	Marico Bosveld		18.9%
	Pella		41.47%
	Wentzel		0.1%
	Sehujwane		34%
	Lindleyspoort		2.7%
Gauteng	None		
Limpopo	Thapane/Mogoboya	Nwamitwa, Bolobedu and Modjadji	0%
Western Cape	None		