

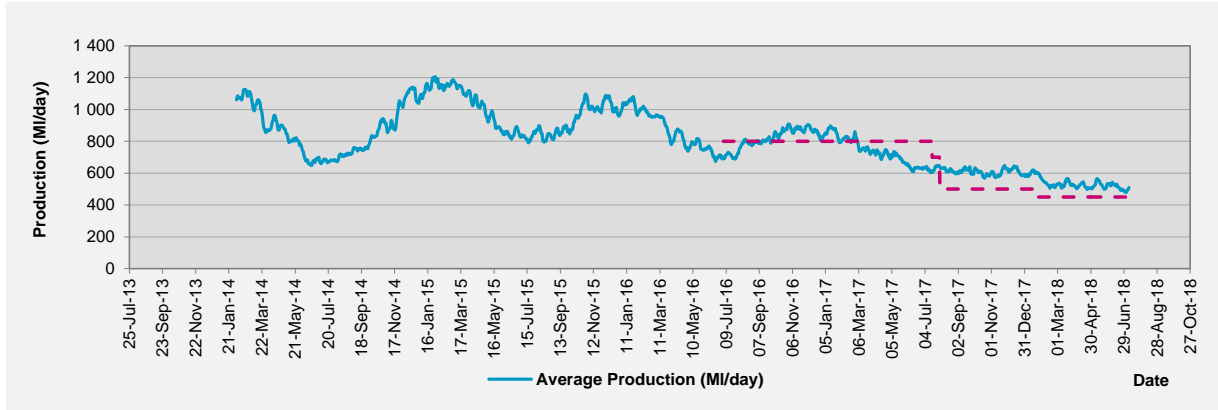


# City of Cape Town: Dam Levels Report

09 July 2018

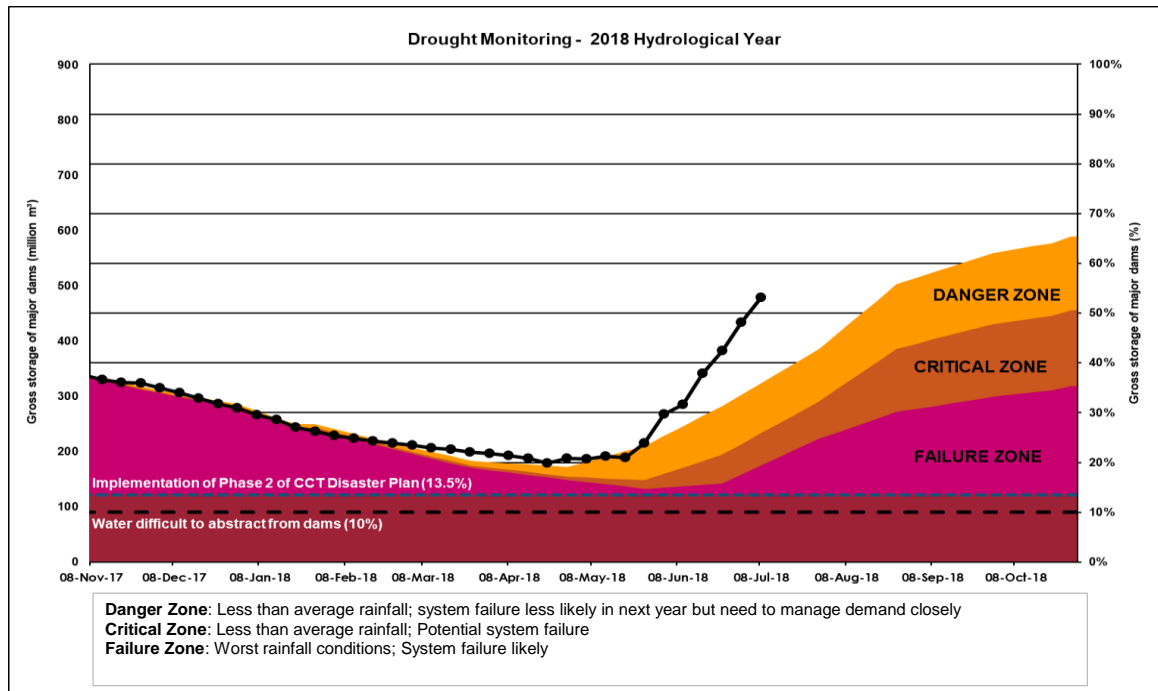
|  |   |  |
|--|---|--|
| <p><b>DAM STORAGE (%)</b></p> <p><b>53.3</b></p> | <p><b>WEEKLY DAM LEVEL CHANGE (%)</b></p> <p><b>5.0 ↑</b></p> <p>increase since last week</p> | <p><b>AVG DAILY WATER USAGE (FOR THE PAST WEEK) ALL WATER SOURCES (MI/d)</b></p> <p><b>510</b></p> <p>(Target 450MI/d)</p> |
|--|---|--|

## Water Usage from large dams comprising the Western Cape Water Supply System



## Western Cape Water Supply System (WCWSS) weekly drought monitoring

This graph depicts total dam storage against potential system risk scenarios. The previous graph monitored the dam level draw down against the 2017 rainfall conditions under different restriction levels.



## Water stored in major dams comprising Western Cape Water Supply System (WCWSS)

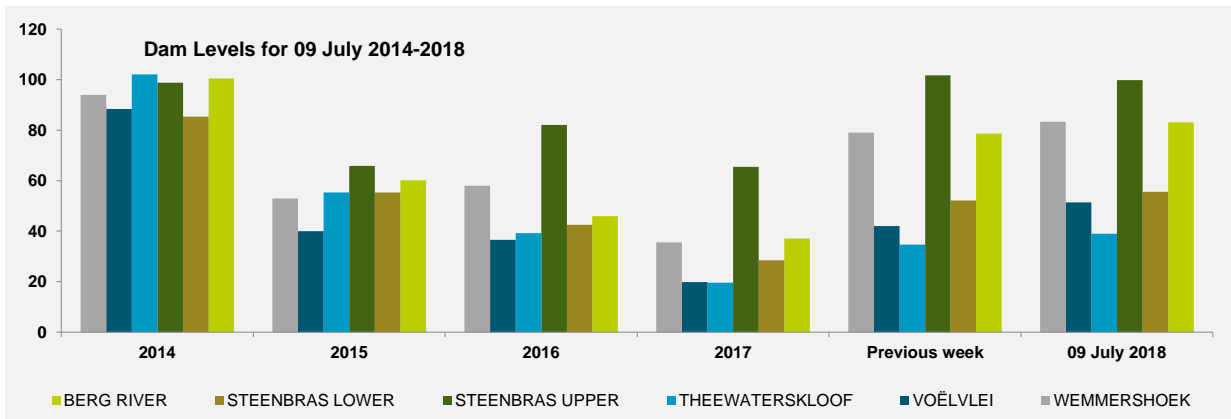
| MAJOR DAMS          | STORAGE        |                |                |                |                |                |                |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                     | CAPACITY       | %              |                | %              |                | %              |                |
|                     | MI             | 09 July 2018   | Previous week  | 2017           | 2016           | 2015           | 2014           |
| BERG RIVER          | 130 010        | 83.1           | 78.7           | 37.1           | 45.9           | 60.2           | 100.4          |
| STEENBRAS LOWER     | 33 517         | 55.5           | 52.1           | 28.5           | 42.5           | 55.3           | 85.4           |
| STEENBRAS UPPER     | 31 767         | 99.8           | 101.7          | 65.4           | 82.0           | 65.8           | 98.8           |
| THEEWATERSKLOOF     | 480 188        | 39.0           | 34.7           | 19.5           | 39.2           | 55.3           | 102.1          |
| VOËLVLEI            | 164 095        | 51.4           | 42.0           | 19.8           | 36.5           | 40.0           | 88.4           |
| WEMMERSHOEK         | 58 644         | 83.3           | 79.0           | 35.6           | 58.0           | 52.9           | 94.0           |
| <b>TOTAL STORED</b> | <b>898 221</b> | <b>478 854</b> | <b>433 903</b> | <b>225 750</b> | <b>382 007</b> | <b>480 010</b> | <b>881 153</b> |
| <b>% STORAGE</b>    |                | <b>53.3</b>    | <b>48.3</b>    | <b>25.1</b>    | <b>42.5</b>    | <b>53.4</b>    | <b>98.1</b>    |

### NOTES:

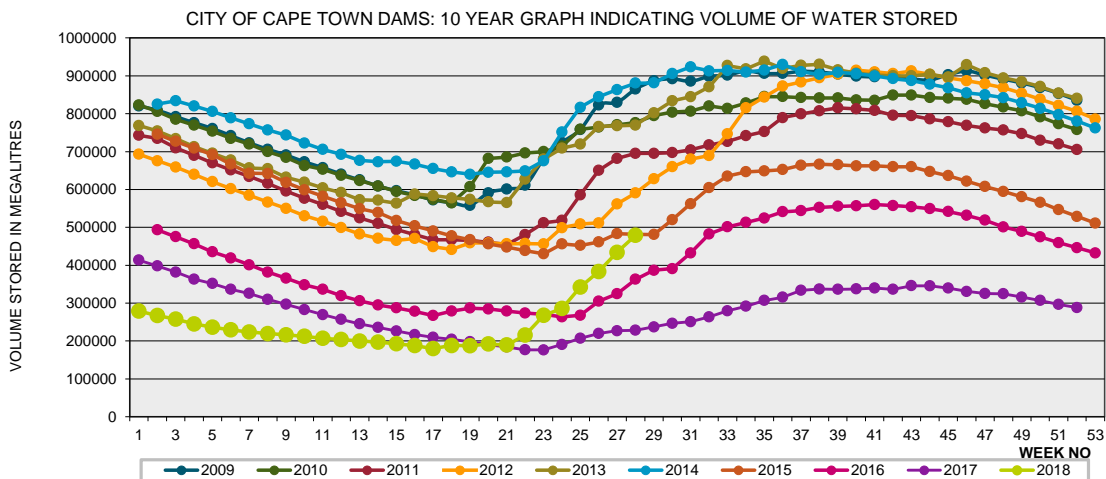
1) Capacity of the major dams of the Western Cape Water Supply System is 99.6% and that of the minor dams 0.4% of the combined capacity of the major and minor dams. Kindly note that all the Major Dams show gross capacity.

2) All figures are for 09 July for each year except for those in the second column, which gives the figures for the previous week of this year.

3) The last 10% of a dam's water is difficult to use, the useable water in the dam is approximately 10% less than the dam level.



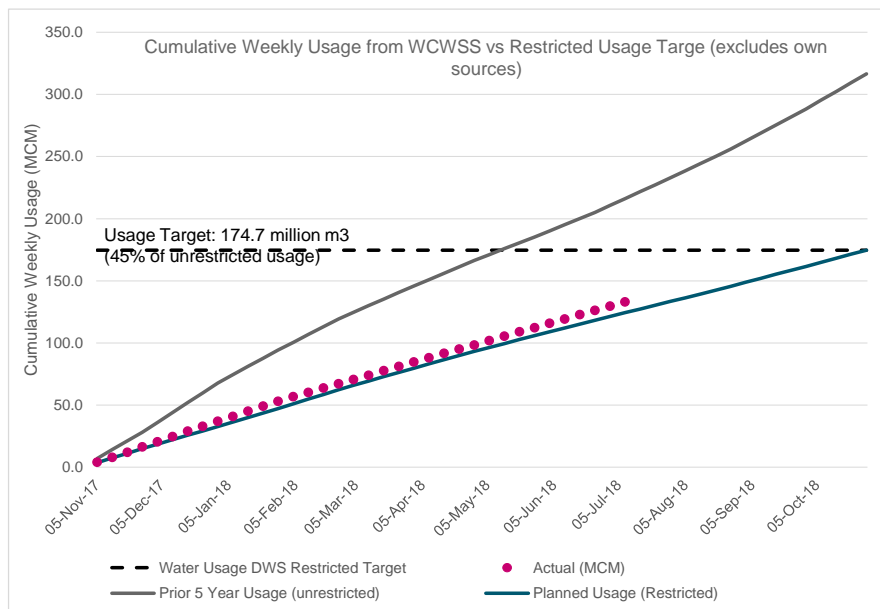
## Ten year graph Indicating volume of water stored in major dams Comprising Western Cape Water Supply System (WCWSS)



## Water stored in minor dams within Cape Town

| MINOR DAMS                        | STORAGE  |              |               |       |       |      |       |
|-----------------------------------|----------|--------------|---------------|-------|-------|------|-------|
|                                   | CAPACITY | %            |               | %     |       | %    |       |
|                                   | MI       | 09 July 2018 | Previous week | 2017  | 2016  | 2015 | 2014  |
| ALEXANDRA (Table Mountain)        | 126      | 91.9         | 91.2          | 45.1  | 37.8  | 20.4 | 100.0 |
| DE VILLIERS (Table Mountain)      | 243      | 100.0        | 89.2          | 61.1  | 100.0 | 66.9 | 100.3 |
| HELLY-HUTCHINSON (Table Mountain) | 925      | 100.0        | 102.0         | 99.8  | 100.2 | 75.0 | 100.3 |
| KLEINPLAATS (Simon's Town)        | 1 368    | 71.1         | 63.5          | 38.2  | 52.8  | 28.7 | 100.0 |
| LAND-EN-ZEEZICHT (Helderberg)     | 451      | 98.8         | 93.8          | 65.6  | 29.4  | 0.0  | 0.0   |
| LEWIS GAY (Simon's Town)          | 182      | 98.7         | 100.9         | 50.7  | 16.5  | 85.7 | 100.9 |
| VICTORIA (Table Mountain)         | 128      | 95.0         | 81.0          | 100.0 | 43.0  | 38.9 | 101.5 |
| WOODHEAD (Table Mountain)         | 954      | 94.3         | 100.9         | 85.7  | 79.9  | 67.3 | 72.3  |

## Water usage from large dams comprising the Western Cape Water Supply System



AVG DAILY PRODUCTION  
WCWSS LARGE DAMS  
ONLY (MI/d)

**473**

Current % Savings

**41%**

(Target = 45%)

The above graph tracks City of Cape Town (CCT) water usage against the Department of Water and Sanitation (DWS) restriction requirement against our unrestricted demand (or past usage).

## Water Quality Sample Pass Rate

| Month  | Water Quality Compliance (%) | Target (%) |
|--------|------------------------------|------------|
| May-17 | 99.71                        | 98         |
| Jun-17 | 99.65                        | 98         |
| Jul-17 | 99.62                        | 98         |
| Aug-17 | 99.59                        | 98         |
| Sep-17 | 99.57                        | 98         |
| Oct-17 | 99.49                        | 98         |
| Nov-17 | 99.44                        | 98         |
| Dec-17 | 99.43                        | 98         |
| Jan-18 | 99.38                        | 98         |
| Feb-18 | 99.38                        | 98         |
| Mar-18 | 99.26                        | 98         |
| Apr-18 | 99.20                        | 98         |
| May-18 | 99.07                        | 98         |

### Notes:

This table shows CCT drinking water quality compliance according to the South African National Standard 241:2015. Compliance, measured against all prescribed chemical and microbiological components, consistently exceeds the very high CCT target of 98%. (Overall compliance percentages of continuous sampling and analysis are released on a monthly basis. The latest available is for May).

## Rainfall

| RAINFALL (mm)             | 02-Jul | 03-Jul | 04-Jul | 05-Jul | 06-Jul | 07-Jul | 08-Jul | Jul    |            |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
|                           |        |        |        |        |        |        |        | Total* | LT Average |
| Blackheath Upper          | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 19.0   | 79.4       |
| Brooklands                | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 16.5   | 137.2      |
| Newlands                  | 12.5   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 72.5   | 271.5      |
| Steenbras                 | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 30.1   | 140.4      |
| Table Mountain (Woodhead) | 5.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 31.5   | 230.2      |
| Theewaterskloof           | 5.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 43.9   | 73.1       |
| Tygerberg                 | 5.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 33.9   | 82.8       |
| Voëlvllei                 | 17.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 57.0   | 93.3       |
| Wemmershoek               | 9.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 56.7   | 159.6      |
| Wynberg                   | 10.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 65.0   | 205.7      |

Notes: \*Total/cumulative rainfall for month indicated above  
LT: Long Term