WEEKLY UPDATE: GAUTENG WATER SECURITY DASHBOARD

1. METRO WATER CONSUMPTION	TOTAL	Joburg	Ekurhuleni	Tshwane	Emfuleni
This Week Average Daily Use (MLD)	3,800	1,693	1,054	755	298
Last Week Average Daily Use - corrected (MLD)	3,764	1,682	1,037	739	306
Water Use Efficiency Target Use (MLD)	3,283	1,356	1,022	666	239
DIFFERENCE BETWEEN TARGET AND ACTUAL (MLD)	517	337	32	89	59
% Deviation from target use	16%	25%	3%	13%	25%
Gross Per capita use (lcd)	269	278	259	189	413
Increase/Decrease from previous week	1	1	1	1	→

01-2020

07-2020

High

Decrease from last week, but above target



Increase from last week, but in target



Decrease, within target



07-202

01-2025

- 2024/2025

MLD = millions of litres per day, the common measurement of total water use for cities

3. IVRS SYSTEM STATUS – 5-year Vaal Major combined surface water storage

07-2021

01-2021

Moderately High

- WUE = Water use efficiency targets is the target demand that matches the licence conditions of Rand Water. This is shown as target demand in dotted lines on the graph. The three metros & Emfuleni comprise ±90% of the WUE target
- Weekly demand figures are from Rand Water meter readings. System balancing and reconciliation due to meter inaccuracies sometimes result in corrections to previous weekly readings.
- Demand increased in all major municipalities. All major users are exceeding their Project 1600 WUE targets and combined use has increased to 16% above target in the previous week.

2. OVERALL WEEKLY CONSUMPTION / WATER USED FOR JOHANNESBURG, TSHWANE, EKURHULENI METROS & EMFULENI 1800 Actual 1,693 337 MLD OVER Target 1,356 **JOBURG** 1400 Actual 1,054 32 MLD OVER **EKURHULENI** Target 1,022 1000 Actual 755 89 MLD OVER **TSHWANE** 600 Target 666 **EMFULENI** Actual 298 **59 MLD OVER** 200 Target 239 Jan 23 Apr 23 Jul 23 Oct 23 Jul 24 Oct 22 Jan 24 Oct 24 Jan 25

100 75 DWS Annual Allocation 1,600 Mm³ 50 2022/23 Abstraction 1.750 Mm³ **IVRS** latest surface water storage 2023/24 Abstraction 1,793 Mm³ 25 79.4% on 13 January 2025 YTD Abstraction (8 mths) 1,219 Mm³ (up from 71.4% the previous week) 2024/25 extrapolated 1.829 Mm

07-2022

Moderately Low

01-2023

07-2023

Very Low

01-2024

07-2024

2023/2024

- ullet The 5-year Vaal Major system storage is shown as an indication that it is tracking lower than in the previous 3 years. DWS Restrictions are implemented on the IVRS when dam levels are below 60% at the beginning of the hydrological year starting in May of each year. Should over-abstraction continue, and rainfall be lower than normal, the DWS model is likely to indicate that restrictions be imposed in May 2025. The Vaal dam level has increased from 24.3% to 46.2% in the past week. Sources:
- https://www.dws.gov.za/niwis2/SurfaceWaterStorage and https://www.dws.gov.za/Hydrology/Weekly/RiverSystems.aspx?river=IV
- The weekly weather forecast shows warm, wet weather across Gauteng with plenty of rain forecast for the next week.

01-2022

All water users are urged to use water sparingly; to refrain from using tap water to irrigate gardens, wash down hard-surfaces etc.