

Groundwater Reserve

- **What does this dashboard relate to: general description**
 - Information on the types or level of Reserve determined (Desktop; Rapid; Intermediate; Comprehensive) nationally
 - Information on the types or level of Reserve determined (Desktop; Rapid; Intermediate; Comprehensive) locally (per quaternary catchment)
 - Information on the number of Reserves determined per WMA
 - Information on the number of Reserves determined nationally
 - Information on the groundwater Reserve Quality Class per Quaternary
- **Person(s) who championed the dashboard**
 - Mr Stanley Nzama
Resource Directed Measures
- **Enquiries:**
 - For all dashboard enquiries click [HERE](#) to go to the Contact Us page.
- **What type/s of questions does the information product aim to answer:**
 - How many groundwater Reserves completed per WMA?
 - At what level (Desktop; Rapid; Intermediate; Comprehensive) were those groundwater Reserves conducted?
 - Which quaternary catchments have available (determined) groundwater reserves?
 - What is the groundwater Reserve Quality Class determined per Quaternary catchment?
- **Data / Information discussion:**
 - What data is used?
 - Recharge volumes of groundwater provided by Head Office, Groundwater Reserve Determination (GWRD)
 - Groundwater baseflow volumes provided by Head Office (GWRD)
 - Ecological Water Requirements for Maintenance Low Flows (EWR_MLF) volumes provided by Head Office (GWRD)
 - Groundwater Reserve volumes provided by Head Office (GWRD)
 - Groundwater Quality Reserve provided by Head Office (GWRD)
 - How is extracted and from where?

Excel spreadsheets provided by the business unit is uploaded to N-drive. NIWIS is extracting data from the spreadsheet saved on the N-drive and then export it directly for display on the NIWIS.
 - How often is it extracted?

Business unit (GWRD) provides Excel spreadsheets bi-annually
 - Business processes related to the data
 - N-Drive
 - Groundwater Tracking System (Spreadsheet)
 - NGIS/ NGA/WMS
 - WRPS
 - The database is updated frequently as new groundwater Reserves get approved
- **The algorithms / equations used to convert data into Information**
 - **Reserve Level**
 - Desktop Level
 - Rapid Level
 - Intermediate Level
 - Comprehensive Level
 - **Reserve Quality Class = Water Quality Reserve**

- Class 0 (Ideal for domestic use – complies with the standard limits of SANS 241:2011/2015)
- Class I (Acceptable for domestic use – complies with the standard limits of SANS 241:2011/2015)
- Class II (Tolerable for domestic use – does not comply with the standard limits of SANS 241:2011/2015)
- Class III (Unacceptable for domestic use – does not comply with the standard limits of SANS 241:2011/2015)
- ***The reserve quality class and reserve levels are shown in the picture below :***

Water Quality Class

- Class 0 (Ideal)
- Class I (Acceptable)
- Class II (Tolerable)
- Class III (Unacceptable)
- No Water Quality Reserve Done

Reserve Level

- Desktop
- Rapid
- Intermediate
- Comprehensive

- **Key assumptions made**

- Map Legend
- Shows quaternary catchments with Groundwater Reserve completed
- Summaries Groundwater Reserve completed nationally
- Summaries Groundwater Reserve completed per WMA and per quaternary catchment
- Shows Level of groundwater Reserve conducted in a quaternary catchment & nationally
- Shows groundwater Reserve Quality Class per quaternary catchment

- **Links to other sources of related information**

- [DRD](#)
- [NGIS CHART](#)
- [NGA](#)
- [NGIS](#)
- [IWRP](#)

- **Are there any limitations / cautions related to using this information?**

Yes, please refer to the below:

Only the Dashboard champions have access rights to the spreadsheets for updating of information.

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