

RIETSPRUIT DAM

COORDINATES (degrees, minutes, seconds)

| LATITUDE | LONGITUDE |
|---------------|---------------|
| 26° 24' 34" S | 26° 48' 38" E |

LOCATION

Rietspruit Dam is located on the Schoon Spruit in quaternary catchment C24D, near the town of Ventersdorp in the North West Province, South Africa.

DESCRIPTION

Rietspruit Dam is an earthfill dam. It has a full supply level of 1,410.3 m. The dead storage level and bottom of the reservoir are at 1,403.0 m.

PURPOSE

Rietspruit Dam is used for irrigation and recreation.

PHYSICAL INFORMATION

| Dam name | River | Quaternary catchment | FSC* (million m ³) | FSA (km ²) | Owner | DWA code | Wall height (m) | Wall length (m) |
|------------|---------------|----------------------|--------------------------------|------------------------|-------|----------|-----------------|-----------------|
| Rietspruit | Schoon Spruit | C24D | 7.30 | 2.30 | DWA | C2R007 | 15 | 992 |

* Live full supply capacity (SANCOLD, 2009)



Rietspruit Dam (source: SA Dept of Water Affairs)



RIETSPRUIT DAM

| Year of completion | Demands/abstractions (million m ³ /a) | | | 1:50 yield (million m ³ /a) | Maximum spillway capacity (m ³ /s) |
|--------------------|--|------------|---------|--|---|
| | Domestic | Irrigation | Other | | |
| 1955 | Unknown | 7.70 † | Unknown | 11.40 ‡ | 0 |

† DWA, Directorate of Hydrological Services correspondence, 2012

‡ DWA, 2002b

OPERATING RULE

Rietspruit, Elandskuil and Johan Neser dams are operated as the Schoon Spruit Sub-system. Operating rules allow for these dams to supply their demands until they reach their respective minimum operating levels. Only the spills from the Schoon Spruit Sub-system contribute to the Bloemhof Sub-system yield.

AREA-CAPACITY RELATIONSHIP

| Elevation (m) | Storage (million m ³) | Surface area (km ²) |
|---------------|-----------------------------------|---------------------------------|
| 1,412 | 12.02 | 3.12 |
| 1,410 | 7.28 | 2.34 |
| 1,409 | 4.77 | 1.85 |
| 1,408 | 2.88 | 1.34 |
| 1,407 | 1.50 | 0.95 |
| 1,405 | 0.53 | 0.63 |
| 1,404 | 0.04 | 0.16 |
| 1,403 | 0.00 | 0.00 |

