

VANWYKSVLEI DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
30° 22' 45" S	21° 48' 41" E

LOCATION

Vanwyksvlei Dam is situated near the town of Vanwyksvlei in the Northern Cape Province, South Africa, and lies within quaternary D54C.

DESCRIPTION

Vanwyksvlei Dam was commissioned in 1882, and is an earth dam with a soil foundation. It has a full supply level of 1,700 m, and the dead storage level and bottom of the reservoir are at 1,671 m.

PURPOSE

The dam was built to supply irrigation.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Vanwyksvlei	Vanwyksvlei	D54C	143.10	49.60	Vanwyksvlei Irrigation Board	D5R002	15	311

* Live full supply capacity (ORASECOM, 2007a, WRYM datasets and DWA, 1990)



Vanwyksvlei Dam (source: SA Dept of Water Affairs)



VANWYKSVLEI 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		
1884	Unknown	Unknown	Unknown	Unknown	Unknown

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,705	171.72	55.34
1,700	143.10	49.61
1,696	114.48	43.39
1,690	85.86	36.51
1,680	57.24	28.62
1,675	28.62	18.88
1,671	0.00	0.00

OPERATING RULE

The Vanwyksvlei, Loxton, Modderpoort and Rooiberg dams are operated as a sub-system, known as the Hartbees River Sub-system. The operating rule for this sub-system allows the dams to supply the demands imposed upon them until the dams reach their respective minimum operating levels.

