

# 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 a dead storage level and bottom of reservoir at 1 671 m.

## PURPOSE

The dam was built to supply irrigation.

Dam name	River	Quaternary catchment	FSC* (million m <sup>3</sup> )	SA (km <sup>2</sup> )	Owner	DWA code	Wall height (m)	Wall length (m)
Vanwyksvlei	Vanwyksvlei	D54C	143.1	49.6	Vanwyksvlei Irrigation Board	D5R002	15	311

\* Live full supply capacity (ORASECOM)



Vanwyksvlei Dam (source: SA Dept of Water Affairs)



## VANWYKSVLEI DAM

Year of completion	Demands/abstractions (million m <sup>3</sup> /a)			1:50 yield (million m <sup>3</sup> /a)	Maximum spillway capacity (m <sup>3</sup> /s)
	Domestic	Irrigation	Other		
1884	Unknown	Unknown	Unknown	Unknown	Unknown

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m <sup>3</sup> )	Surface area (km <sup>2</sup> )
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.

