

# DISANENG DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
25° 49' 26" S	25° 18' 49" E

## LOCATION

Disaneng Dam is situated near Mmabatho in the North West Province, South Africa, within quaternary D41A. It is actually in the Crocodile West and Marico Water Management Area, north-east of the Orange–Senqu River basin, but drains into the Molopo River.

## DESCRIPTION

The dam is an earthfill type dam. It has a full supply level of 1,700 m. The dead storage level and bottom of the reservoir are at 1,671 m.

## PURPOSE

The dam was built to supply irrigation and urban water supply.

## PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m <sup>3</sup> )	FSA (km <sup>2</sup> )	Owner	DWA code	Wall height (m)	Wall length (m)
Disaneng	Molopo	D41A	16.00	4.25	DWA	Unknown	17	780

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



Disaneng Dam (source: SA Dept of Water Affairs)



## DISANENG 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		
1980	Unknown	Unknown	Unknown	Unknown	15,083

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m <sup>3</sup> )	Surface area (km <sup>2</sup> )
1,705	19.22	4.95
1,700	16.02	4.44
1,696	12.82	3.88
1,690	9.61	3.27
1,680	6.41	2.56
1,675	3.20	1.69
1,671	0.00	0.00

## OPERATING RULE

The Disaneng, Setumo and Lotlamoeng dams are operated as a sub-system, known as the Molopo Sub-system South Africa. 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.



The border between South Africa and Botswana follows the dry bed of the Molopo River for hundreds of kilometres (© UNOPS/Greg Marinovich).

