



MODDERPOORT DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
31° 56' 41" S	22° 08' 38" E

LOCATION

Modderpoort Dam is situated in D55A on the Rietfontein River near Beaufort West in the Western Cape, South Africa.

DESCRIPTION

Modderpoort Dam is an earth dam with a free overspill spillway (no capacity available). The full supply level is 1,700 m.

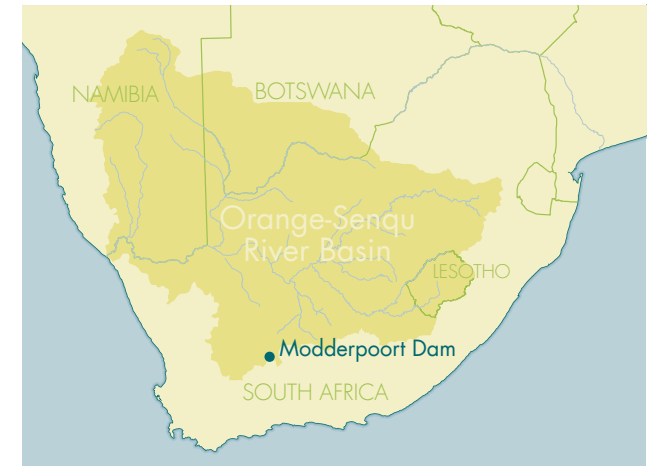
PURPOSE

The dam was designed to supply irrigation demands.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Modderpoort	Rietfontein	D55A	12.30	2.16	Unknown	Unknown	15	710

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



MODDERPOORT 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		
1953	Unknown	Unknown	Unknown	Unknown	Free overspill

OPERATING RULE

The Modderpoort, Loxton, Vanwyksvlei 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.

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,705	14.76	2.41
1,700	12.30	2.16
1,696	9.84	1.89
1,690	7.38	1.59
1,680	4.92	1.25
1,675	2.46	0.82
1,671	0.00	0.00

