



# LOXTON DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
31° 28' 37" S	22° 22' 05" E

## LOCATION

Loxton Dam is located in quaternary catchment D55D, on the Southpoort River in the Lower Orange Water Management Area, just east of the town of Loxton in South Africa.

## DESCRIPTION

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

## PURPOSE

Loxton Dam is used for irrigation and domestic 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)
Loxton Dam	Southpoort	D55D	3.40	0.30	Loxton Municipality	Unknown	17	199

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



## LOXTON 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		
1913	Unknown	Unknown	Unknown	Unknown	210

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m <sup>3</sup> )	Surface area (km <sup>2</sup> )
1,705	4.09	0.34
1,700	3.41	0.30
1,696	2.73	0.26
1,690	1.05	0.22
1,680	1.37	0.17
1,675	0.68	0.11
1,671	0.00	0.00

## OPERATING RULE

The Loxton, Modderpoort, 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.

