



# LOXTON DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
31°28'37.3" S	22°22'05.3" 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, and a dead storage level and bottom of reservoir 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> )	SA (km <sup>2</sup> )	Owner	DWA code	Wall height (m)	Wall length (m)
Loxton Dam	Southpoort	D55D	3.4	0.3	Loxton Municipality	Unknown	17	199

\* Live full supply capacity (ORASECOM)



## 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.

