

COORDINATES (degrees, minutes, seconds)

LATITUDE	longitude		
29° 24′ 53″ S	21° 12′ 38″ E		

# LOCATION

Rooiberg Dam is situated on the Hartbees River near Kenhardt in the Northern Cape, South Africa, in quaternary D53A.

## DESCRIPTION

Rooiberg Dam is an earth 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

Rooiberg Dam was constructed to supply irrigation demands.

# PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m³)	FSA (km²)	Owner	DWA code	Wall height (m)	Wall length (m)
Rooiberg	Hartbees	D53A	3.65	3.13	Kenhardt Municipality	D5R001	8	1,210

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





Year of completion -		s/abstractions (millio	1:50 yield (million	Maximum spillway capacity (m³/s)	
reur or completion	Domestic	Irrigation	Other	<sup>−</sup> m³/a)	capacity (m³/s)
 1900	Unknown	Unknown	Unknown	Unknown	Free overspill

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m³)	Surface area (km²)
1,705	4.38	3.49
1,700	3.65	3.13
1,696	2.92	2.73
1,690	2.19	2.30
1,680	1.46	1.81
1,675	0.93	1.19
1,671	0.00	0.00

# OPERATING RULE

The Rooiberg, Vanwyksvlei, Loxton and Modderpoort dams are operated as a subsystem, 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.

