

# ARMENIA DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
25°51'48.77" S	30°33'32.53" E

## LOCATION

This dam is situated on the Leeu River in quaternary catchment D23C, South Africa, upstream of Welbedacht Dam.

## DESCRIPTION

Armenia Dam is an arch rock dam, with a free overway spillway, and a catchment area of 8 581 km<sup>2</sup>. The dam has a full supply level of 1 514.9 m, with a dead storage level and bottom of reservoir at 1 503 m.

## PURPOSE

Armenia Dam is part of the Armenia Dam Scheme, which also incorporates a canal system on the Leeu River. The purpose of the dam is to supply irrigation to the Leeu River Irrigation Scheme via a canal from the dam.

Armenia Dam supplies the Hobhouse Waste Water Treatment Works, and its boreholes supply the Thaba Patchoa Waste Water Treatment Works.

## 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)
Armenia	Leeu	D23C	13.2	3.9	DWA	D2R002	22	110

\* Live full supply capacity (ORASECOM)



Armenia Dam (source: SA Dept of Water Affairs)



## ARMENIA 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		
1954	Unknown	2.58 †	Unknown	Unknown	1 073

† WRC TT380/08

## AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m <sup>3</sup> )	Surface area (km <sup>2</sup> )
1 517.22	24.59	5.24
1 514.85	13.78	3.93
1 512.48	6.00	2.6
1 510.11	1.79	0.99
1 508.93	0.92	0.48
1 507.74	0.43	0.31
1 505.37	0.06	0.07
1 503.00	0.00	0.00

