

ARMENIA DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
29° 21' 50" S	27° 07' 54" S

LOCATION

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

DESCRIPTION

Armenia Dam is a concrete arch dam, with a free overway spillway, and a catchment area of 8,581 km². The dam has a full supply level of 1,514.9 m. The dead storage level and bottom of the reservoir are 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 Water Treatment Works, and its boreholes supply the Thaba Patchoa Water Treatment Works.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Armenia	Leeu	D23C	13.20	3.90	DWA	D2R002	22	110

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



Armenia Dam (source: SA Dept of Water Affairs)



ARMENIA 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		
1954	Unknown	2.58 †	Unknown	Unknown	1,073

† WRC, 2008

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,517.2	24.59	5.24
1,514.9	13.78	3.93
1,512.5	6.00	2.60
1,510.1	1.79	0.99
1,508.9	0.92	0.48
1,507.7	0.43	0.31
1,505.4	0.06	0.07
1,503.0	0.00	0.00

