

Namibia NAUTE DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
26°55'50.93" S	17°56'16.05" E

LOCATION

The Naute Dam is located on the Loewen River in the Fish River catchment in quaternary catchment D46G in Namibia.

DESCRIPTION

The Naute Dam is a double curvature circular arch structure.

PURPOSE

Water is treated at the dam via a 1.9 km pipeline to the water treatment plant. Then the purified water reaches the town of Keetmanshoop via a 44 km pipeline. Water is also provided for a 270 ha irrigation scheme via a 2 km gravity pipeline.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	SA (km ²)	Owner	Wall height (m)	Wall length (m)
Naute Dam	Loewen	D46G	83.58	11.55	NamWater	37	470

* Live full supply capacity (ORASECOM)



Naute Dam (source: www.wikipedia.org)



NAUTE 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		
1971	2.1†	3.3 †	Unknown	12	2 380

† SA Dept of Water Affairs PB D000/00/4303

Source: NamWater and ORASECOM 001/2007

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
732	83.58	11.53
731	72.80	10.05
727	40.54	6.58
725	28.53	5.42
721	12.03	2.86
719	7.29	1.83
714	2.38	0.49
711	1.32	0.31
703	0.00	0.00

OPERATING RULE

The Naute and Hardap Dams are operated as a sub-system, known as the Fish 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.



Naute Dam (source: www.wikipedia.org)

