



JOHAN NESER DAM

COORDINATES (degrees, minutes, seconds)

LATITUDE	LONGITUDE
26° 48' 21" S	26° 36' 25" E

LOCATION

Johan Nesper Dam (also known as Klerksdorp Dam) is located on the Schoon Spruit near Klerksdorp in the North West Province, South Africa, in quaternary C24G in the Middle Vaal Water Management Area.

DESCRIPTION

Johan Nesper Dam is an earthfill dam. It has a full supply level of 1,317.7 m, a dead storage level of 1,311.6 m and the bottom of the reservoir is at 1,311.0 m.

PURPOSE

Johan Nesper Dam is used for irrigation.

PHYSICAL INFORMATION

Dam name	River	Quaternary catchment	FSC* (million m ³)	FSA (km ²)	Owner	DWA code	Wall height (m)	Wall length (m)
Johan Nesper	Schoon Spruit	C24G	5.70	2.70	Klerksdorp Irrigation Board	C2R002	12	780

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



Johan Nesper Dam (source: SA Dept of Water Affairs)



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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		
1922	Unknown	Unknown	Unknown	10.40	Unknown

AREA-CAPACITY RELATIONSHIP

Elevation (m)	Storage (million m ³)	Surface area (km ²)
1,319	9.82	3.91
1,318	5.67	2.73
1,317	3.88	2.15
1,316	2.05	1.55
1,315	0.78	1.04
1,314	0.08	0.50
1,313	0.00	0.01
1,311	0.00	0.00

OPERATING RULE

Johan Neser, Elandskuil and Rietspruit dams are operated as the Schoon Spruit Sub-system. Operating rules allow for these dams to supply their demands until they reach their respective minimum operating levels. Only the spills from the Schoon Spruit Sub-system contribute to the Bloemhof Sub-system yield.

