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water is abstracted from both the canal system and the river. Water is also abstracted from the river to supply Viljoenskroon with potable water; excess water flows into the Vaal River.

## Wentzel Dam sub-system

Wentzel Dam is the highest on the Harts River and relies totally on natural flow from the river. The only existing abstraction from the dam is to satisfy the demand of the town of Schweizer Reneke, estimated at about 1 Mm3/a in 2006.



Groundwater supplies a large proportion of available water in the Orange-Sengu River basin. Source:Kruchem 2008 ( click to enlarge )

Upper Orange WMA

The registered volume of groundwater use within the Upper Orange WMA is 98,3 Mm3/a, representing approximately 10% of the water available for sustainable abstraction. Groundwater represents a large potential resource, particularly for local supply in areas that are distant from the main river system. Groundwater is widely used in the area for domestic and agricultural purposes, also playing a major role in the sustainability and economy of the Modder River catchment (DWAF2003a).















## Lower Orange WMA

Groundwater is also an important resource in the Lower Orange WMA. In areas distant from the main stem of the Orange River, 60–70% of the available water is supplied from groundwater. Groundwater is also an important water source for rural communities, and is frequently their only source of water (DWAF 2003b).

## Kalahari Rural Water Supply Scheme

This small-scale scheme consists of the Kalahari West, Kalahari East and the Karos-Geelkoppan Rural Water Supply Schemes (RWSS).

Kalahari West: This water supply scheme, northwest of Upington, was initiated following several years of serious drought in this part of the catchment. The scheme consists of a 51 L/s pump station located at the Upington municipal reservoir, which conveys water to the main reservoir (2 500 m<sup>3</sup> capacity) near Spitskop (ORASECOM 2007a).

Kalahari East: The Kalahari East <u>Rural Water Supply</u> Scheme was constructed in the early 1990s to supply water to farmers in the Kalahari, north of Upington, with water for livestock watering and domestic use. The scheme sources its water from the Vaal-Gamagara pipeline.

## Karos-Geelkoppan Rural Water Supply Scheme

This is a very small scheme supplying water to rural communities north of Upington.

Next: Potential Impacts of Climate Change