

Precipitation across the Orange-Senqu River basin. Source:Hatfield 2009, after UNDP 2008 (click to enlarge)

Evaporation

High average temperatures across most of the basin result in high evaporation rates, especially in the arid and semi-arid west of the Orange-Senqu River basin. This, combined with low rainfall, results in an average water deficit of approximately 1,9 m per year in the middle reaches of the Orange River and approximately 2,6 m per year in the western parts of the lower Orange-Senqu River basin.

Evapotranspiration

Mean annual evapotranspiration at the source of the Senqu River in Lesotho is approximately 1 200 to 1 400 mm. This increases to an average of 1 400 to 1 800 mm in the Upper and Lower Orange and yet higher to over 2 000 mm in the Fish River system, Namibia. The map below shows the mean annual evapotranspiration for the Orange-Sengu River basin.



Next: Climatic Classification of the Orange-Sengu River basin

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