

DWAF Vaal/Orange River
system:
Structure of flood
forecast/warning/response

Brink du Plessis
June 2007

Vaal / Orange river system



Flood forecast/warning/response

- Monitor weather forecast and rainfall (QPE)
- Do daily flow routings to large reservoirs
- Inform dam operators if flood is expected
- Manage Vaal/Orange River System during floods (take control of dams with gates)
- Regional personnel manage other reservoirs
- Supply flood related info to DWAF Communication Services
- Supply information to NDMC, Rand Water, Local Authorities as needed



HYDROLOGICAL SERVICES



Hydro

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About Hydrology

Access Data **New!**

Flow. Dams info:

Real time

Daily

Weekly

Provincial Rain

Mpumalanga Region

Flood Management:

Vaal Dam

Bloemhof Dam

Gariiep Dam

Van der Kloof Dam

River hydrographs

Info on dams

Weather info

Flow gauging

You are visitor number since January 2005.

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Rain: [Daily](#) [Last 7 days](#) [Last 24 hours](#) [Last 6 hours](#)

Stations in WMA 13: Upper Orange (Blue row indicates station is a dam)

Station	Stage	Data	Place	Date/Time	Stage (m)	Flow Capacity	Remark
D1R001	Stage	Data	Steekspruit at Steekspruit Dam	2007-06-11 06:12	13.520	No rating	No rating table
D1R002	Stage	Data	Senque at Katse Dam	2007-06-08 08:00	240.230	0.00%	Stage inaccurate
D1H032			Senqunyane at Lesotho	1899-12-30 00:00	No data		
D1H035	Stage	Data	Senque at Mantlana	2007-06-11 06:00	0.328	4.68	
D1H006	Stage	Data	Rain	Photo	Kornetspruit at Maghaleen	0.431	12.76
D1H009	Stage	Data	Rain	Photo	Orange at Oranjedraai	0.650	26.42
D1H011	Stage	Data	Rain	Photo	Kraai at Roodewal	0.520	6.19
D1H003	Stage	Data	Photo	Orange at Aliwal_North G	0.402	41.27	
D2H012	Stage	Data	Rain	Photo	Little Caledon at The Poplars	0.192	0.19
D2H035	Stage	Data	Rain	Photo	Caledon at Ficksburg Bridge	-0.180	0.00

D1H009

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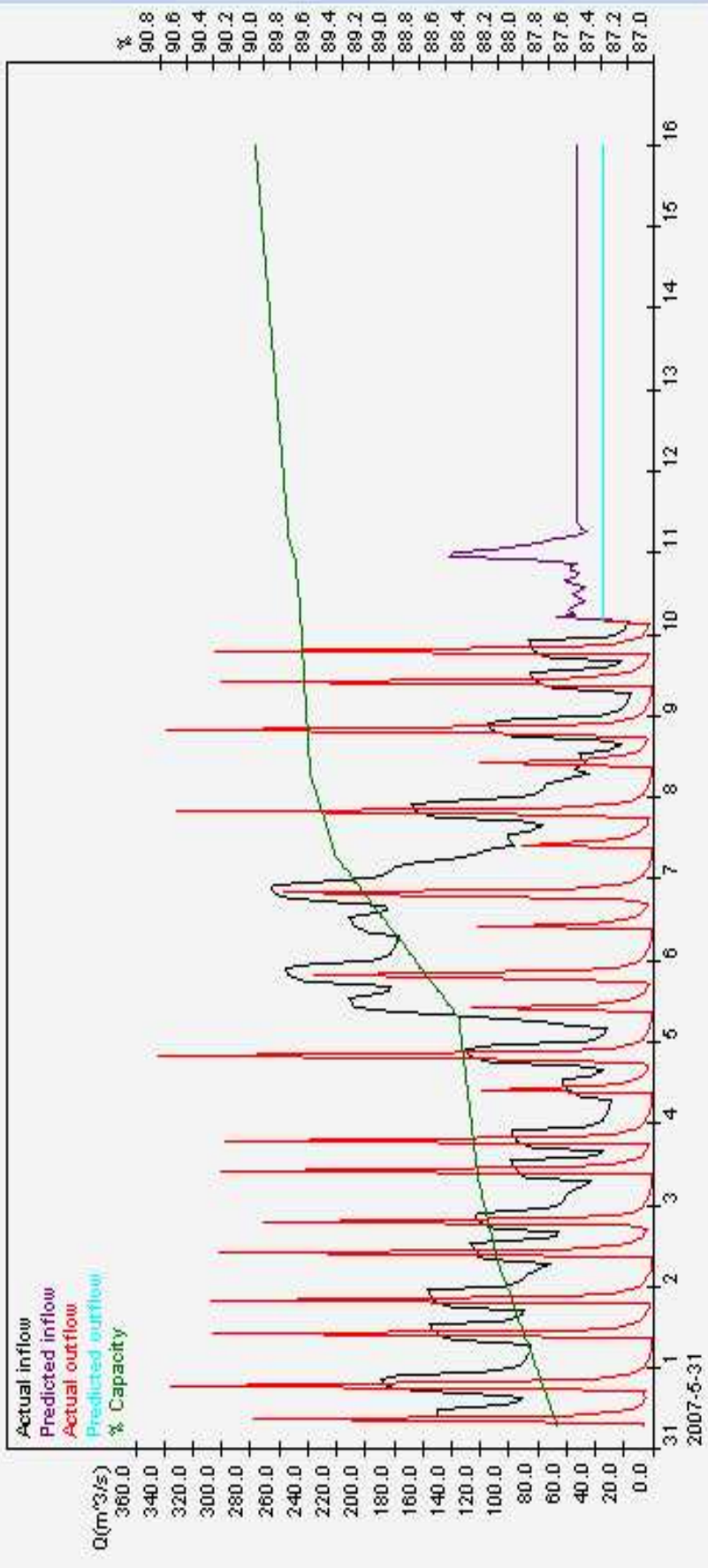
Weather info

Flow gauging

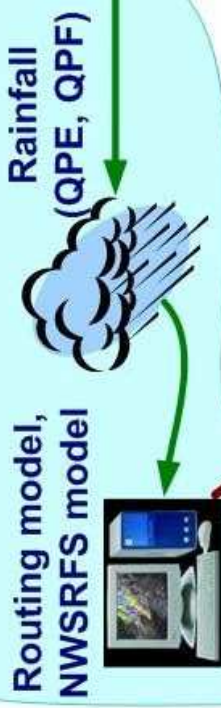
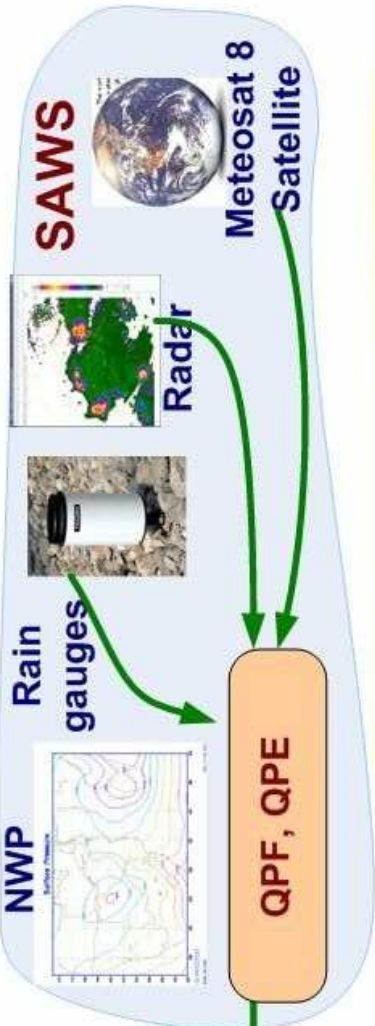
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Station no: D3R003
Time of routing: 2007-06-11 08:13:19



DWAF Flood Guidance



River Basin data: flow, soil moisture



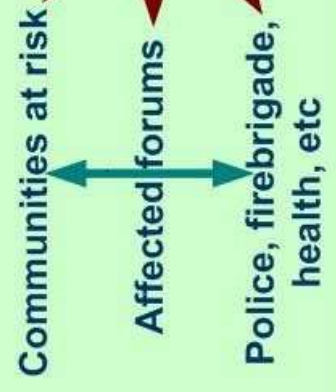
DWAF Flood Warning Operations



Take control & Operate Reservoirs if needed, Liaise with Regional Offices

Disseminate warning / advisory via DWAF Communications Services: 0-6 hours Warning 1-2 days, 3-7 days Advisory

Disaster Management Structures



DWAF: "Flood management room"



Thank you

4 10 2000