

Overview of Tuvalu's Current Fresh Water Reserves

13 October 2011

Recent rain, but rations at 40 litres per household per day

Limited potable groundwater

★ **Nanumea**
764 [205]

Rations at 40 litres per household per day

Limited potable groundwater

★ **Niutao**
759 [169]

★ **Nanumaga**
674 [251]

8 kL/d



Electrical repairs required

Rations at 40 litres per household per day

Negligible potable groundwater

Te Mataili Patrol Boat



2 kL/d

N



★ **Nui**
609 [203]
Some recent rain
40 L/h/d rations
Some potable groundwater



8 kL/d

★ **Vaitupu**
1600 [321]

Some recent rain
60 L/h/d rations
Limited potable groundwater

★ **Nukufetau**
568 [130]

Some recent rain
40-80 L/h/d rations
Potable groundwater on Fale islet

Both moved for repairs
One now operational at 8kL/day, the second requires major work

★ **Funafuti**
5300 [789]

40 L/h/d rations
Reserves very low (<850 kL gov & community, plus domestic)
No potable groundwater



50 kL/d, operating at less than 30kL/day (to be verified)

★ **Nukulaelae**
333 [121]

Reserves very low (< 200 kL total)
No potable groundwater



KEY

Population & [number of households]

Government estimate

Captured Rain Water

Estimated reserves in government, community & domestic storages

Potable Groundwater

Estimate of current availability from wells

Desalinated Water

Mobile Plant Permanent Plant



Desal Plants proposed under Japanese PEC fund (due 2012)



100 kL/d solar



2 x 10 kL/d mobile

Emergency Desal Plants (mobilised & proposed)

NZ Red Cross (arrived 3 Oct)



2.9 kL/d

Deployed and operating on Nukulaelae



1.4 kL/d

NZ Gov (1 month for Funafuti)



50 kL/d Operating at 40kL/day

UNICEF (to be shipped to Funafuti)



6-11 kL/d Solar - to support school & hospital

UK & others (under consideration)



x 2 Capacity to be advised

WORKING DRAFT FOR DISCUSSION ONLY

SOME ISLAND CONDITIONS TO BE CONFIRMED

Prepared by SOPAC Division of SPC in consultation with partners and Tuvalu Ministry of Public Utilities

Good reserves

Recent rainfall

Potable groundwater

★ **Niulakita**
35*

0 200 km (approximate only)