

Total Dissolved Solids (TDS) units are: parts per million (ppm)  
Electrical Conductivity (EC) units are: microSiemens per cm (µS/cm)

**Salinity Converter**

Formula:  $100EC (\mu S/cm) = 64ppm$

0	0
50	32
100	64
200	128
500	320
1000	640
2000	1280
5000	3200
8000	5120
10000	6400
15000	9600
20000	12800

EC (µS/cm) = ppm

Extreme
High
Medium
Low

**Caution:** Always determine the units your salinity meter measures in before using this information. Some meters use another EC scale: deciSiemens per metre (dS/m). If this is the case multiply the reading on the screen by 1000 to get EC (µS/cm) as listed here.

This is a general guide to one aspect of water quality. It is possible for situations to occur that lead to higher or lower tolerances levels. Such as short/long term use of salty water, weather and not watering plants leaves. Note that other elements in water can become toxic as salt increases. This also plays a part in limiting water uses.

**Salinity Tolerance Levels**

EC Units microSiemens per centimetre, (µS/cm)

50,000 = Sea Water (approximately)

**16,500** = Limit for adult sheep  
**15,500** = Limit for beef cattle and septic tanks  
**11,000** = Limit for lambs & weaners  
**6,200** = Limit for showers and baths  
**6,000** = Recommended limit for lactating ewes  
**5,500** = Limit for dairy cattle  
**4,700** = Limit for mixing herbicide  
**4,000** = May cause shell cracking in laying Hens  
**2,300** = Absolute limit for people  
**2,000** = Recommended limit for irrigating lucerne  
**1,800** = Limit for roses, camellias and azaleas  
**1,700** = Tastes salty  
**1,600** = Limit for hot water systems  
**800** = Ideal limit for people  
**200** = Murray River at Mildura on 25/7/02  
**0** = Pure distilled water

**354** = Mean Daily EC Indigo Creek  
**167** = Mean Daily EC Black dog Creek  
**64** = Mean Daily EC Ovens River

**Salinity Status of North East Creeks/Rivers in 2000.**

**RESULTS:** of water sample


Date	Location	EC Reading

**For further information:**

Contact your local Salinity Extension Officer at:

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A POCKET GUIDE TO

## Monitoring Water Salinity

IN NORTH EAST VICTORIA

Testing the salinity status of local rivers, creeks, dams and groundwater supplies is a useful tool in determining one aspect of water quality. This calculator has been developed to assist you in converting the common units used in measuring water salinity. The amount of salt in a sample of water can be measured in the following ways. Either as total dissolved salts (TDS) or electrical conductivity (EC).

