

## Table 1: pH

ACID				ALKA	LINE		
Very strong	Strong	Moderate	Slight	Slight	Moderate	Strong	Very strong
3	4	5	6	7	8	9	10

### Table 2: Sodicity classes of irrigation water

SAR	RSC (meq/L)	Sodicity class	SAR level	Management options
< 3	< 1.25	S0	No sodicity problem	
3 - 6	< 1.25	S1	Low	Few problems except for sodium sensitive crops
6 - 8	< 2.5	S2	Medium	Increasing problems. Use Gypsum. Avoid sodium sensitive crops.
8- 14	< 2.5	S3	High	Not generally recommended
> 14	Disregard	S4	Very high	Unsuitable
< 6	1.25 -2.5	S5	Medium RSC	Increasing problems. Use Gypsum. Avoid sodium sensitive crops.
< 14	2.5 - 5	S6	High RSC	Not generally recommended
< 14	< 5	S7	Very high RSC	Unsuitable

## Table 3: Electrical conductivity (uS/cm) - 1 dS/m = 1000 uS/cm = 640 ppm

EC level	Comment
< 650	Low - suitable for all crops
650 - 1300	Medium - suitable for the majority of crops. Sprinkler irrigation may cause leaf burn.
1300 - 3000	High - water should not be used on poor draining soils
3000 - 5000	Very high - suitable to high tolerant crops. Soils need to be permeable and free draining
5000 - 8000	Extremely high - generally unsuitable for irrigation unless well drained permeable soil
> 8000	Too saline for irrigation

# Table 4: Classification of irrigation water

Salinity class	Level	dS/m	Total dissolved ions (mg/L)
C1	Low	< 0.65	< 400
C2	Moderate	0.65 - 1.3	400 - 850
C3	High	1.3 - 3	850 - 1900
C4	Very high	3 - 5	1900 - 3200
C5	Extremely high	5 - 8	3200 - 5100
C6	Excessive	> 8	> 5100



## Table 5: Total dissolved solids (TDS)

	No effect	Slight to moderate	Severe
TDS mg/L	< 450	450 - 2000	> 2000

## **Table 6: Permeability**

	No problem	Increasing problem	Severe problem
EC (dS/m) - caused by low salt	0.5 +	05 0.2	0.2 - 0.0
TDS (dS/m) - caused by low salt	450	450 - 0	
SAR - caused by sodium	0.0 - 6	6.0 - 8.0	8.0 +

#### **Table 7: Chloride**

< 350 mg/L	Suitable for all crops
350 - 700 mg/L	Suitable for low, medium and high salt tolerant crops
700 - 900 mg/L	Suitable for medium and high salt tolerant crops
900 - 1300 mg/	Suitable for high salt tolerant crops only
> 1300 mg/L	Too saline for irrigation

For more details contact Growcom on 07 3620 3844.





