

LABORATORY DETERMINATIONS NEEDED TO EVALUATE COMMON IRRIGATION WATER QUALITY PROBLEMS

Parameter	Symbol	Unit	Usual Range
Salinity			
Electrical Conductivity	EC _w	dS/m	0 - 3
Total Dissolved Solids	TDS	mg/L	0 - 2000
Cations & Anions			
Calcium	Ca	meq/L	0 - 20
Magnesium	Mg	meq/L	0 - 5
Sodium	Na	meq/L	0 - 40
Carbonate	CO ₃	meq/L	0 - 0.1
Bicarbonate	HCO ₃	meq/L	0 - 10
Chloride	Cl	meq/L	0 - 30
Sulphate	SO ₄	meq/L	0 - 20

Parameter	Symbol	Unit	Usual Range
Nutrients			
Nitrate Nitrogen	NO ₃ -N	mg/L	0 - 10
Ammonium Nitrogen	NH ₄ -N	mg/L	0 - 5
Phosphate Phosphorus	PO ₄ -N	mg/L	0 - 2
Potassium	K	mg/L	0 - 2
Miscellaneous			
Boron	B	mg/L	0 - 2
Acidity - Basicity	pH	1-14	6 - 8.5
Sodium Adsorption Ratio	SAR	Ratio	0 - 15