

Understanding Your Irrigation Water Report

Irrigation water quality is critical to successful crop production. Quality of your irrigation water can affect both crop yields and physical soil conditions, therefore it is important to know the quality of your irrigation water.

Irrigation Suitability Parameters

Element	Low	Normal	Moderate	High	Very High
Nitrate (NO ₃)	<5.0	5--50		50--100	>100.0
Phosphorus	<0.10	0.10-0.49		0.50--0.80	>0.80
Potassium	<5.0	5--20		20--30	>30.0
Calcium	<20.0	20--60		60--80	>80.0
Magnesium	<10.0	10--25		25--35	>35.0
SSP (Sodium)	<60.0		60--75		>75.0
Chloride	<70.0		70--300		>300.0
Sulfate Sulfur	<30.0	30--90		90--180	>180.0
Boron	<0.50		0.50--1.00		>1.0
Carbonate	<10.0	10--15			>15.0
BiCarbonate	<120		120--180	180--600	>600.0
pH (units)	<7.0	7.0--8.3			>8.3
Conductivity (mmhos/cm)			0.75--3.0		>3.0
Total Dissolved Solids (TDS)			480--1920		>1920.0
Sodium Absorption Ratio (SAR)	<3.0		3.0--5.0	5.0--8.0	>8.0

Note: The above parameters are measured in mg/L unless otherwise noted.