

Water Analysis Report

Irrigation Water Analysis



Customer:		Water Use:	Irrigation (FAO)	Date Received:	
Address:				Analysis Date:	
Farm Name:		Comments:		Report Date:	
Contact Person:		Condition:	Filled	Sample ID:	

Water Source: Irrigation Water

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: Irrigation Water

History (Last 3 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Optimum	High	Symbol	Current				Method
pH		7.20	6.50	8.40				pH	7.20				Potentiometric
*Electrical Conductivity	mS cm ⁻¹	1.65		< 1.50				EC	1.65				Potentiometric
Ammonium	ppm	0.14		< 5.00				NH ₄	0.14				Colorimetric
Calcium	ppm	166		< 60.0				Ca	166				Spectroscopy
Magnesium	ppm	34.0		< 25.0				Mg	34.0				Spectroscopy
*Potassium	ppm	22.5		< 20.0				K	22.5				Spectroscopy
Phosphorus	ppm	0.11		< 0.40				P	0.11				Spectroscopy
Nitrate N	ppm	13.0		< 15.0				NO ₃ N	13.0				Colorimetric
*Nitrates	ppm	57.5		< 66.0				NO ₃	57.5				Colorimetric
Sulphur	ppm	34.1		< 27.0				S	34.1				Spectroscopy
*Sulphate	ppm	102		< 81.0				SO ₄	102				Spectroscopy
Iron	ppm	< 0.01		< 5.00				Fe	< 0.01				Spectroscopy
Manganese	ppm	0.015		< 0.20				Mn	0.015				Spectroscopy
Zinc	ppm	0.017		< 2.00				Zn	0.017				Spectroscopy
Boron	ppm	< 0.01		< 0.60				B	< 0.01				Spectroscopy
Copper	ppm	< 0.01		< 0.20				Cu	< 0.01				Spectroscopy
Molybdenum	ppm	< 0.01		< 0.01				Mo	< 0.01				Spectroscopy
*Sodium	ppm	150		< 60.0				Na	150				Spectroscopy
Chlorides	ppm	96.6		< 140				Cl	96.6				Colorimetric
*Bicarbonate	ppm	731		< 91.0				HCO ₃	731				Colorimetric
Silicon	ppm	41.1		< 50.0				Si	41.1				Spectroscopy
*Silica	ppm	87.9		< 107				SiO ₂	87.9				Spectroscopy
*SAR		2.77		< 10.0				SAR	2.77				Calculated
*Hardness	ppm	554		< 60.0				CaCO ₃	554				Calculated
*Turbidity	NTU	0.85		< 10.0				TUB	0.85				Turbidimetry

COMMENTS

High electrical conductivity restricts yield of most crops except for tolerant crops. > High levels of bicarbonates will increase soil pH through a liming effect, especially in association with sodium. When used for flower or hydroponics crops, high quantities of acid will be required to neutralize. > High potassium levels can be considered in fertilizer programs. Can cause deficiency of Mg and Ca due to induced nutrient imbalances > Calcium carbonates may occur on leaves with sprinkler irrigation or impair irrigation lines, valves or orifices > High magnesium levels reduces soil dispersion and loss of hydraulic conductivity of non calcareous soil. Precipitates of magnesium carbonates may occur on leaves or may impair irrigation lines. > High sodium content is generally unsatisfactory for irrigation purposes. It may produce harmful levels of exchangeable sodium in most soils and will require special soil management. > High levels of sulphur can be as a result of acid treatment during water acidification. Reduced S forms FeS and MnS precipitates that cause the black coloration resulting to anaerobic conditions.

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