

2790 Whitten Road, Memphis, TN 38133 Main 901.213.2400 ° Fax 901.213.2440 www.waypointanalytical.com

AGRICULTURAL SPRAY WATER SUITABILITY

Send to :	Project :	Report No :	`
		Cust No :	
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		Lab Number :	95502

Sample Id: 1

CATIONS		mg/L	meq/L
Sodium	Na	196	8.53
Calcium	Ca	23.3	1.16
Magnesium	Mg	8.66	0.71
Potassium	K	2.64	0.07
Ammonium	NH ₄	1	0.04
Ammonium	NH ₄ - N	0.532	

SUM OF CATIONS	10.51

ANIONS		mg/L	meq/L
Chloride	CI	89.0	2.51
Sulfate	SO ₄	4.39	0.09
Juliale	S	1	
Bicarbonate	HCO ₃	466	7.64
Carbonate	CO ₃	0	0.00
Nitrate	NO ₃	0	0.00
Nillale	NO ₃ - N	0.110	
Dhaanhata	PO ₄	0.306	0.01
Phosphate	Р	0.100	
		•	•
SUM OF ANION	IS		10.25

Hydrogen Ion Activity	рН	7.35	
Electrical Conductivity	ECw	1.09	dS/m
Total Dissolved Solids	TDS		
Adj Na Adsorption Ratio	SARadj	10.48	
Sodium Adsorption Ratio	SAR	8.82	
Hardness		93.8	ppm

Copper	Cu	0.005 mg/L
Zinc	Zn	1.98 mg/L
Manganese	Mn	0.010 mg/L
Iron	Fe	0.118 mg/L
Boron	В	0.123 mg/L
Fluoride	F	
Aluminum	Al	0.100 mg/L
Molybdenum	Мо	0.010 mg/L

mg/L = parts per million parts water

meq/L - milliequivalents per liter

mg/L = ppm

Hardness is determined from calculations using the calcium and magnesium concentrations in the water.

TDS calculated by ECw * 640



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SPRAY WATER ANALYSIS INTERPRETATION

Potential Problem	рН	Hardness	Iron	Carbonate	Bicarbonate	Sodium	Chloride
Test Result	7.35	93.8	0.118	0	466	196	89.0
Units	s.u	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
							<u>'</u>
Severe	> 7.9	> 180	> 1.5	> 8.5	> 8.5	> 6	> 5
Slight to Moderate	< 5.8 ; 7.1 - 7.9	60 - 180	0.3 - 1.5	2 - 8.5	2 - 8.5	3 - 6	3 - 5
None	5.8 - 7	< 60	< 0.3	< 2	< 2	< 3	< 3
Severe							
Moderate							
Slight							
None							
	рН	Hardness	Fe	CO ₃	HCO ₃	Na	CI

One or more potential problems are moderate to severe. Consider the use of a water conditioner or a different water source.

Water Hardness indicates low potential.

For insecticide/fungicide active ingredients that are subject to decomposition by alkaline hydrolysis, buffer addition is recommended when pH exceeds 7.0. Optimum range is pH between 3.0 and 5.0 depending on active ingredient.

For glyphosate, buffering is recommended when pH exceeds 5.0. Optimum range is pH between 3.0 and 4.5.

Bicarbonates at this level indicate potential for negative impacts on glyphosate, clethodim, ACHIEVE, and sethoxydim.