

**Section 9 of 22 (9b - Irrigation Water, Soil and Plant Tissue Analysis Interpretation Guide – Blank Copy)**

1	<b>Producer:</b>	<b>Crop:</b>	<b>Yield:</b>	<b>Irrigation Water:</b>
2	<b>Tillage Operations:</b>			
3	<b>Soil Texture:</b>	<b>Soil Structure:</b>	<b>Aggregate Stability:</b>	

4	Nutrients  ON = Organic Nitrogen mineralized	Irrigation Water Analysis (ppm x 0.23 x " = lb./ac.)		Soil Analysis 0-6" depth  ppm x " = lb/ac (6" depth)		Nutrient Inputs (recommendations)	Plant Tissue Analysis  Note: N is kjeldahl nitrogen & Sulfur is total Sulfur		Should I Apply Nutrients? - Yes (Y) No (N) - Maintenance (M) - Not Sure (?) - Other (O)	Conservation Practices to consider for achieving sustainability
		ppm or mg/l	Pounds per Acre	ppm or mg/Kg	Pounds per Acre (VL, L, M, H, & VH)	Pounds per Acre	% or ppm & Rating (low - high)	Sufficiency Range (leaf: middle of terminal shoot)		
5	Organic Matter			%						♥ Cover Crops  ♥ Crop Rotations  ♥ Manure or Compost  ♥ Minimum-Till (No-Till); Residue mgt.  ♥ IWM  ♥ Soil Amendments (e.g. gypsum)  ♥ IPM
6	N mineralized			ON		Manure?				
7	Nitrate-Nitrogen					N	%	%		
8	Phosphorus					P <sub>2</sub> O <sub>5</sub>	%	%		
9	Potassium					K <sub>2</sub> O	%	%		
10	Sulfate-Sulfur					none	%	%		
11	Calcium					none	%	%		
12	Magnesium					none	%	%		
13	Zinc					none	ppm	ppm		
14	Iron					none	ppm	ppm		
15	Manganese					none	ppm	ppm		
16	Copper					none	ppm	ppm		
17	Boron					none	ppm	ppm		
18	Molybdenum					none				
19	Sodium				use SAR					
20	Chloride									
21	Bicarbonate									
22	Carbonate									

**Additional Assessments to Consider in evaluating your Cropping System (soil pH, free lime & CEC)**

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| <ul style="list-style-type: none"> <li>• Electrical Conductivity of Irrigation Water (ECiw) =       mmhos/cm</li> <li>• Sodium Adsorption Ratio (SAR) from water test =       &amp; pH =</li> <li>• Refer to Irrigation Water Quality Guidelines (Sect.2) for infiltration assessment. Total Dissolved Solids =       mg/l</li> <li>• Soluble salts applied =       lb./ac./yr.</li> </ul> | <ul style="list-style-type: none"> <li>• ECe (EC of Soil Saturation extract) =       mmhos/cm &amp; pH =</li> <li>• Sodium Adsorption Ratio (SAR) from soil test =</li> <li>• Refer to Crop Salt Tolerance Table (Section 2) to evaluate for potential yield reduction and salinity management considerations/options</li> </ul> |
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Refer to the NRCS Nutrient Uptake Tool: <http://npk.nrcs.usda.gov/> for calculating NPK removal by crop

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Agronomy Tech Note 76 (<http://www.nm.nrcs.usda.gov/technical/handbooks/iwm/nmiwm.html>)