



**Two-Day Intensive Workshop**

For Growers - Field Consultants - Fertilizer Suppliers

**Field-Proven Approaches To Season-Long  
Crop Nutrition Management For A Better Bottom Line.**

**12.5 CEUs for Certified Crop Advisors.**

**January 15 & 16 – Fort Hall, Idaho**



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### WORKSHOP SCHEDULE

DAY ONE	Time	Presenter	Topic
	8:00 a.m.	◆◆◆	<b>Check In</b>
	8:30 – 9:45 a.m.	Noel Garcia, CCA	<b>1 – SOIL TESTING</b> <ul style="list-style-type: none"> <li>• Why, When and How Often to Do It</li> <li>• What and Where to Sample</li> <li>• How to Sample and Prepare Samples For Shipment to the Lab</li> <li>• Differences in Soil Testing Methods</li> <li>• Interpreting Lab Numbers</li> <li>• Considerations When Writing Recommendations</li> <li>• Importance of Soil Nutrients</li> <li>• Nutrient Interactions Between Themselves &amp; Native Soil Chemistry</li> </ul>
	9:45 – 9:55 a.m.	◆◆◆	<b>Break</b>
	9:55 - 10:55 a.m.	Dr. Larry Zibilske	<b>2 – REVIVING SOIL BIOLOGY</b> <ul style="list-style-type: none"> <li>• “Habitat” Concept</li> <li>• Relationships Between Populations</li> <li>• Testing for Biological Activity</li> <li>• FUNCTIONS: Why Biology Is Essential for Plants</li> <li>• Nutrient Cycling - Disease Buffering Effects</li> </ul>
	10:55 – 11:05 a.m.	◆◆◆	<b>Break</b>
	11:05 a.m. – Noon	Dr. Larry Zibilske	<b>3 - USING ORGANIC MATTER TO ENHANCE CROP NUTRITION</b> <b>Compost + Sulfur: A Winning Combination</b> <ul style="list-style-type: none"> <li>• Effects on Soil Structure and Tilth</li> <li>• Effects on Nutrients &amp; Water</li> <li>• Effects on Microbial Population</li> <li>• “Biological Buffering”</li> <li>• Nutrients in Organic Matter</li> <li>• Nutrients Added to Compost</li> <li>• Test Results: Adding Sulfur to Compost</li> </ul>
	Noon – 1:00 p.m.	◆◆◆	<b>Lunch</b>
	1:00 – 2:30 p.m.	Noel Garcia, CCA	<b>4 - CROP NUTRITION:</b> <b>Getting Nutrients into Plants</b> Plant Nutrient Uptake and Efficiency of Uptake: <b>Using Less Fertilizer &amp; Water While Getting Better Crop Results.</b> <ul style="list-style-type: none"> <li>• How Native Soil Chemistry &amp; Physics Affect Nutrient Uptake</li> <li>• Fertilizer Efficiencies based on source</li> <li>• Micronutrient Chelation: EDTA, Citric Acid, Amino Acid, Humic / Fulvic Acids, etc.</li> <li>• When and How to Apply Them</li> <li>• Nutritional Cures for Non-Nutritional Problems: SILICON</li> </ul>
	2:30 – 2:40 p.m.	◆◆◆	<b>Break</b>
2:40 – 4:00 p.m.	Dr. Larry Zibilske	<b>5 – Unifying Biological and Chemical Sources of Fertility</b> The Best of Both Methods <ul style="list-style-type: none"> <li>• Microbial Inoculants: Types, Expectations</li> <li>• Using Microbes and Chemical Fertilizers Together</li> <li>• How Microbes Promote High Nutrient Use Efficiency</li> </ul>	
4:00 – 5:00? p.m.	Garcia & Zibilske	<b>Informal Questions &amp; Answers</b> for as long as necessary	



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	Time	Presenter	Topic
D A Y  T W O	8:00 – 9:15 a.m.	Noel Garcia, CCA	<b>6 – ELEMENTS OF PLANT NUTRITION</b> <ul style="list-style-type: none"> <li>Plant Nutrients and Their Functions</li> <li>Macro – Micro – Trace Elements &amp; Their Chemical Compound Forms</li> <li>Prevention of Hidden Hunger With <i>Ask The Plant</i>®</li> <li>Difference between Petiole (Sap) and Leaf Analysis</li> <li>Control &amp; Prevention of Disease &amp; Insect Pressures With Nutrition</li> </ul>
	9:15 – 9:25 a.m.	◆◆◆	<b>Break</b>
	9:25 - 10:40 a.m.	Noel Garcia, CCA	<b>7 - POTATO NUTRITIONAL REQUIREMENTS</b> <ul style="list-style-type: none"> <li>Plants' Ever-Changing Nutritional Needs</li> <li>When Is Too Much &amp; When Is Too Little? Timing Is Everything</li> <li>Common Errors In "Conventional Wisdom" On Fertility Planning</li> <li>Does Water Use Efficiency Have Anything To Do With Plant Nutrition?</li> <li>Helping Weather-Proof Your Crop</li> <li>Why What's In Your Plants Will Be Different From What's In Your Soil</li> <li>Maximizing Your Crop's Genetic Potential &amp; <i>Decreasing Maturity Time (Really Important If You're Facing A Potentially Short or Difficult Growing Season)</i></li> <li>How Your Soil Test Calibrates To What's Actually In Your Plants</li> <li>Plant [Sap] Analysis Interpretations &amp; Plant Nutrition Standards</li> <li>Getting Plants Off To A Healthy Start With Proper Nutrition</li> <li>Achieving and Maintaining Season-Long Balanced Plant Nutrition</li> <li>What Season-Long Balanced Plant Nutrition Does For You</li> </ul>
	10:40 – 10:55 a.m.	◆◆◆	<b>Break</b>
	10:55 a.m. – Noon	Noel Garcia, CCA	<b>8 - FOLIAR NUTRITION ON POTATO PLANTS</b> <ul style="list-style-type: none"> <li>How to Use Foliar Sprays</li> <li>Why, What and When To Apply</li> <li>Can Chelated Products Be More Effective In Foliar Sprays?</li> <li>What About Alternative (Non-Conventional) Adjuvants?</li> </ul>
	Noon – 1:00 p.m.	◆◆◆	<b>Lunch</b>
	1:00 – 2:00 p.m.	Dr. Larry Zibilske	<b>9 - WATER – A Source of Many Problems</b> <ul style="list-style-type: none"> <li>Declining Water Quality and Availability?</li> <li>Watering Too Much?</li> <li>Water Analysis Interpretation – Impact of Water Quality On Everything</li> <li>pH – An Accurate Indicator of Hardness?</li> <li>How Water Management Affects Yields</li> <li>How To Use Less Water &amp; Get Better Crop Performance</li> <li>Fertigation Techniques</li> <li>Managing the Effects of Water Quality on Soil Chemistry &amp; Structure, Plants and Foliar Sprays.</li> </ul>
	2:00 – 2:15 p.m.	◆◆◆	<b>Break</b>
	2:15 – 3:15 p.m.	Jared Cook Field Consultant  Rocky Mountain Agronomics	<b>10 – Benefits of the <i>Ask The Plant</i>® Methodology to Growers &amp; Consultants</b> <ul style="list-style-type: none"> <li>Introducing potential clients to a precision approach to crop nutrition.</li> <li>Moving from being a <i>Prisoner of the Past</i> to a <i>Pioneer of the Future: Is it worth it?</i></li> <li>Benefits of Fertility Management: Reduction in Fungicides &amp; Pesticides •</li> <li>Water Management: How much can it save you?</li> <li>ATP Season-Long Crop Nutrition Guidance: Return On Investment</li> </ul>
	3:15 – 3:30 p.m.	◆◆◆	<b>Break</b>
	3:30 – 5:00? p.m.	Growers and Consultants	<b>11 - PUTTING IT ALL TOGETHER: Panel of Growers and Consultants</b> <b>"Conventional" Practice versus Another Approach</b> <i>How has it worked-out in the Real World?</i> Photos, End-of-Season Reports & Round-table Discussion – Questions & Answers for as long as necessary