

BACTELIFE

WATER CONSERVATION and CLIMATE SMART INITIATIVES



CLIMATE SMART CROPS

www.Bactelife.com



Introduction

Informational Guide
AGRICULTURE

What is Climate Smart?

Productivity

Increase crop health with less water, treatments, and input costs.

Adaptation

Increase crop ability to adapt to changes in climate and stressful environmental conditions.

Mitigation

Decrease negative impacts to climate caused by conventional fertilizer and greenhouse gases.



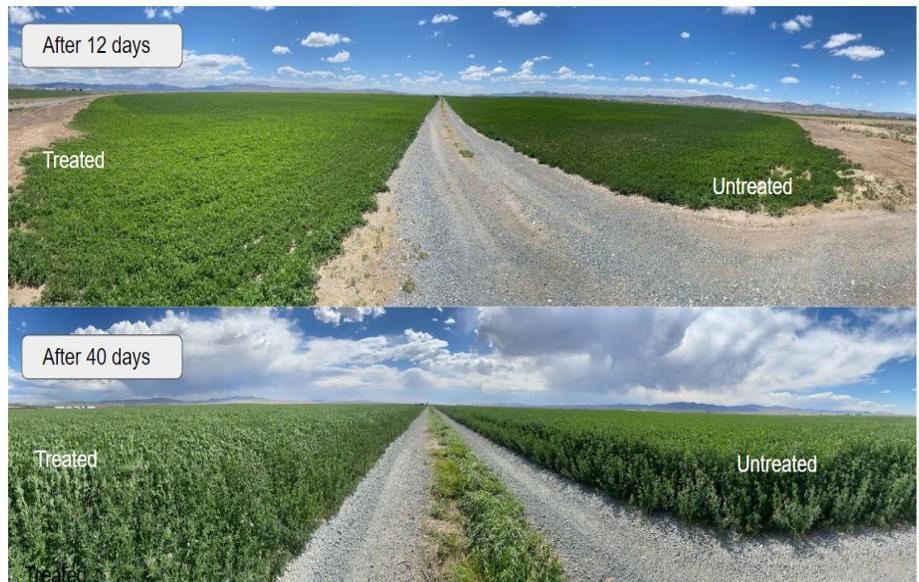
BACTELIFE

CONSERVE WATER. IMPROVE SOIL. PARTNER WITH NATURE.

Climate Smart Crops



Before and after



Improved growth by ~4 inches and matured 8 days earlier.

Environmental Sustainability

Atmosphere

Every nitrogen gas particle released into the atmosphere traps 262 times more damaging heat in the atmosphere than CO₂.

Soil

Soil gains vital nutrients and microbes that reboot the soil food web and enhance soil formation in croplands.

Water

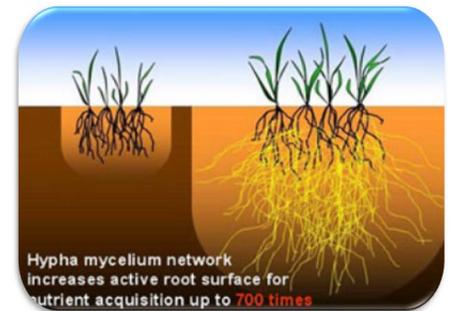
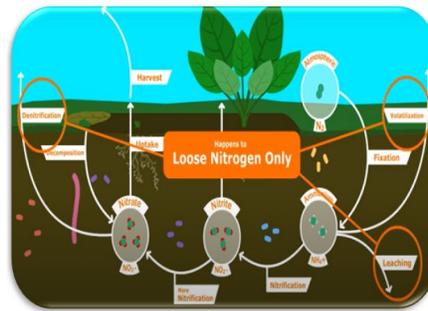
Without healthy soil, water flows out of reach of crop roots. Active soils can extend root zone access to water. This allows farmers to reduce water without compromising crop yield and quality.

Nature

Reducing nitrogen fertilizers decreases damage from harmful contaminated runoff that can overwhelm fragile ecosystems and pollute watersheds.

What is a Bactelife Climate Smart Crop? Environmental and Economic Sustainability

Climate Smart Crops use less resources and support environmental relief and remediation with significant cost reductions to any farming budget. Bactelife Climate Smart Products target many levels of plant health including root health, nutrient access, water retention, plant stress, and micronutrient supply. These products provide essential elements that are often depleted in the soil and enhance them with living organisms that act like tiny conveyor belts. Once established, these conveyor belts help connect plants to water and nutrients up to 700 times better.



Two Products, One Solution Like Probiotics for Your Crops

Crop health is a lot like your digestion system. Bactelife products help put everything back into balance and improve crop productivity. This twofold approach restores damaged soil, improves crop growth, increases water capacity and access in the soil, and reduces negative impacts to the crops from years of conventional agriculture practices.

H2Organix restores microbes that are damaged and often lost over time. This microbial blend allows crops to conserve water, enhance the soil, and improve plant nutrient absorption.

MICROMIN is a mixture of up to 78 nano minerals that are readily available to crops. This product is nano-sized, meaning that it is a million times smaller than conventional fertilizer. MICROMIN functions as an organo-mineral conventional fertilizer replacement that restores necessary elements to the soil.



Economic Sustainability

Fertilizer

Farmers can transition to a 78 nano organo-mineral product that is an ecologically friendly alternative to conventional fertilizers.

“-cides” Reduction

Often the costliest and environmentally damaging aspect of agriculture is the pest and disease prevention measures that farmers use. These can be significantly reduced.

Crop Resilience

Climate Smart products help farmers adapt crops to drought pressure, pests, and other harsh conditions.

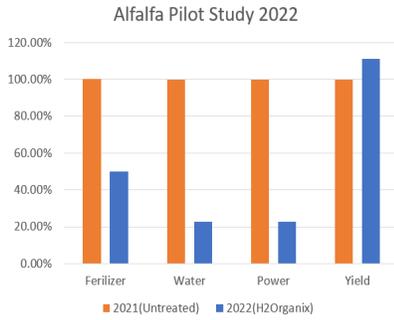
Water Conservation

Farmers are able to substantially reduce water in their crops while increasing yields and quality.

Bridging the Gap in Farms Making a Difference that Famers Support

Bactelife has worked through worst case scenarios. Fertilizer prices rose by 400%, forcing some farmers to cut fertilizer use in half. For the first time in farm history, water use was restricted by 40%.

H2ORGANIX SUSTAINABILITY

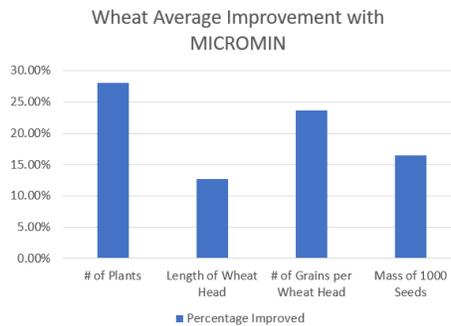


2022 RFV First Cutting Analysis= 187 RFV			
Area Tested	Treated Field	National Median	90% Range
Protein Sol.	47.63	37.11	27.47-47.14
Calcium	1.83	1.54	1.19-1.84
Phosphorus	.35	.31	.23-.39
Sulfur	.31	.25	.17-.33
Sugar(ESC)	9.3	6.03	2.71-9.16
Sugar(WSC)	10.7	7.14	3.32-10.19

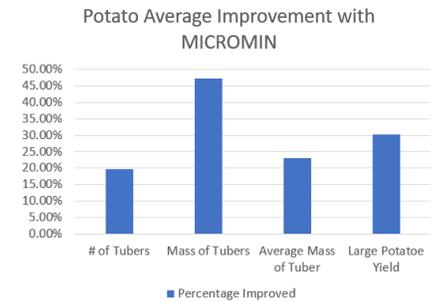
Safe for the Climate Better than your Conventional Fertilizer

Conventional fertilizer supply is at the mercy of the peace of the world and compounded in complexity with the negative impact it causes to the environment. MICROMIN is sourced and manufactured within the USA.

MICROMIN SAMPLE DATA



INCREASED WHEAT YIELD 20.5-25%
Pre-sowing Treatment and foliar dressing had a positive effect. Additional grain yield was .9-1.1 t/ha more in control fields.



INCREASED POTATO YIELD 10.9-11.8%
Foliar dressing had a positive effect on disease resistance and yield of potatoes. Additional potato yield was 42.2-84.5 c/ha more than control fields

University Results

- *Yields improved by more than 17%
- *More grain and tubers per plant
- *Significant reduction in diseases