

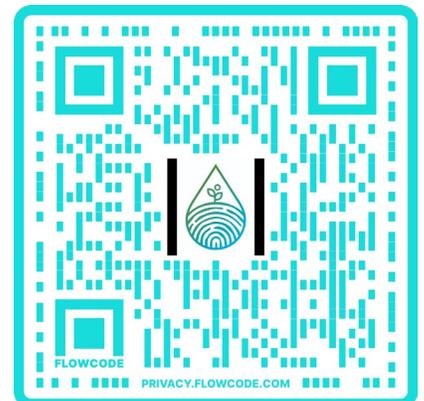
# BACTELIFE

WATER CONSERVATION and CLIMATE SMART INITIATIVES



CLIMATE SMART LAWNS

[www.Bactelife.com](http://www.Bactelife.com)



# Introduction

Informational Guide

Lawns

## 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 Lawns



*Before and after*



*90% water reduction after 90 days*

## Environmental Sustainability

### Atmosphere

Every nitrogen gas particle released into the atmosphere traps 262 times more damaging heat in the atmosphere than CO<sub>2</sub>.

### Soil

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

### Water

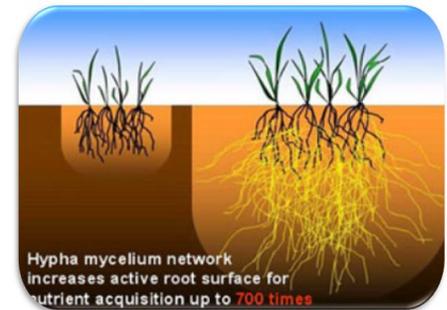
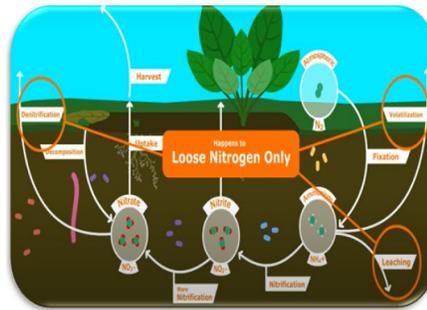
Without healthy soil, water flows out of reach of lawn roots. Active soils can extend root zone access to water. This allows users to reduce water without compromising lawn health.

### Nature

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

## What is a Bactelife Climate Smart Lawn? Environmental and Economic Sustainability

Climate Smart lawns use less resources and support environmental relief and remediation with significant cost reductions to any user's 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 Lawn

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

**H2Organix** restores microbes that are damaged and often lost over time. This microbial blend allows lawns 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 lawns. 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

Conventional nitrogen-based fertilizers can be eliminated and replaced by our ecologically friendly MICROMIN fertilizer replacement.

### “-cides” Reduction

Pesticide and other harmful treatments can be eliminated from your lawns and removed from your budget.

### Lawn Repair

Lawns that are damaged from overuse, pet waste, and pathogens can improve growth and resilience to these harsh pressures.

### Water Conservation

As microbes establish and soil rejuvenates, water is more accessible to each plant, significantly reducing the amount of water needed to keep lawns thriving in summertime conditions.

## Transition to Eco-Friendly One Story with a Difference you can SEE

Bactelife climate smart lawns are green and ecologically friendly. The example below is in an extreme desert climate in Southern Utah.

### Before treatment:

- Severe lawn damage due to pathogenic fungus
- Lawn had spotty color with irregular growth
- Lawn received an annual fungicide treatment
- Lawn required large amounts of water



### After 6 weeks of Bactelife Climate Smart approach:

- Lawn regrowth occurred in damaged fungus areas
- Lawn was rich in color, healthy in appearance, and thick in growth
- Conventional fungicides and fertilizers no longer required
- Water reduced 50% during the hottest time of the year

## Little Things Make a BIG DIFFERENCE Healthy Soils Cut Costs

Bactelife has been tried and tested in many climates, soil types, and worst-case scenarios. Regardless of the conditions surrounding your lawn, Bactelife can make things better. When a lawn is brought back into a natural balance, many costs can be removed from your lawn care budget.

- **Significantly conserve water**
- **Reduce harmful chemicals (fungicides, herbicides, etc)**
- **Repair lawn and increase resilience**
- **Reduce conventional fertilizer 70-100%**