

MicrobeBio®

NATURE PHENOM™ RICE



BUILT BY BIOLOGY. POWERED BY NATURE.



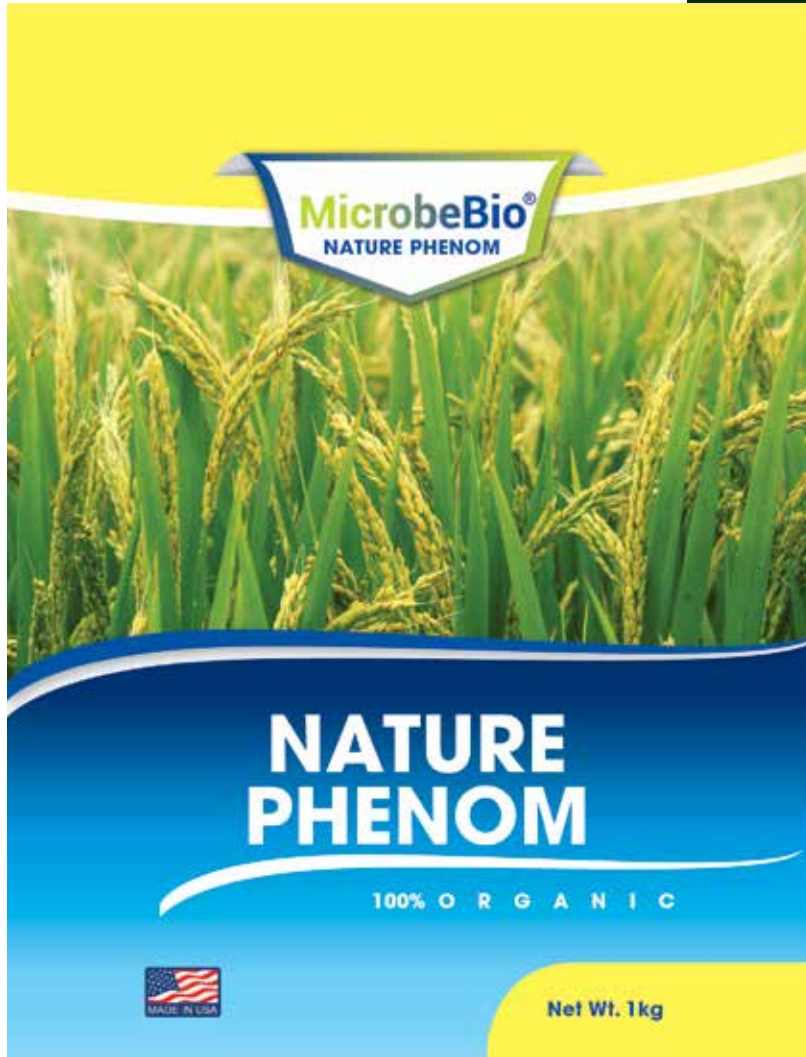
HEALTHY SOIL



STRONGER PLANTS



BETTER HARVESTS



THE NEXT GENERATION OF RICE PRODUCTION

MicrobeBio® Nature Phenom Rice™ is a proprietary rice-specific biological enhancement formula developed exclusively for maximizing rice productivity, grain quality, aroma, taste, profitability, and sustainability.

Nature Phenom Rice serves as the cornerstone of the MicrobeBio® Rice Production System, replacing conventional crop biostimulants with a highly specialized technology designed specifically for the biological, nutritional, and physiological requirements of rice throughout every stage of development.

Unlike generic plant stimulants, Nature Phenom Rice is engineered to support the unique growth cycle of rice, from seed germination and tillering to panicle development, grain filling, and harvest. The formula works synergistically with soil biology, plant metabolism, nutrient cycling, and environmental processes to unlock the full genetic potential of modern rice varieties.

The result is healthier plants, stronger root systems, improved nutrient efficiency, superior grain quality, enhanced aroma and flavor, improved milling recovery, longer shelf life, and increased economic returns for growers.



THE NATURE PHENOM RICE™ ADVANTAGE

Nature Phenom Rice is specifically designed to:

OPTIMIZE ROOT DEVELOPMENT

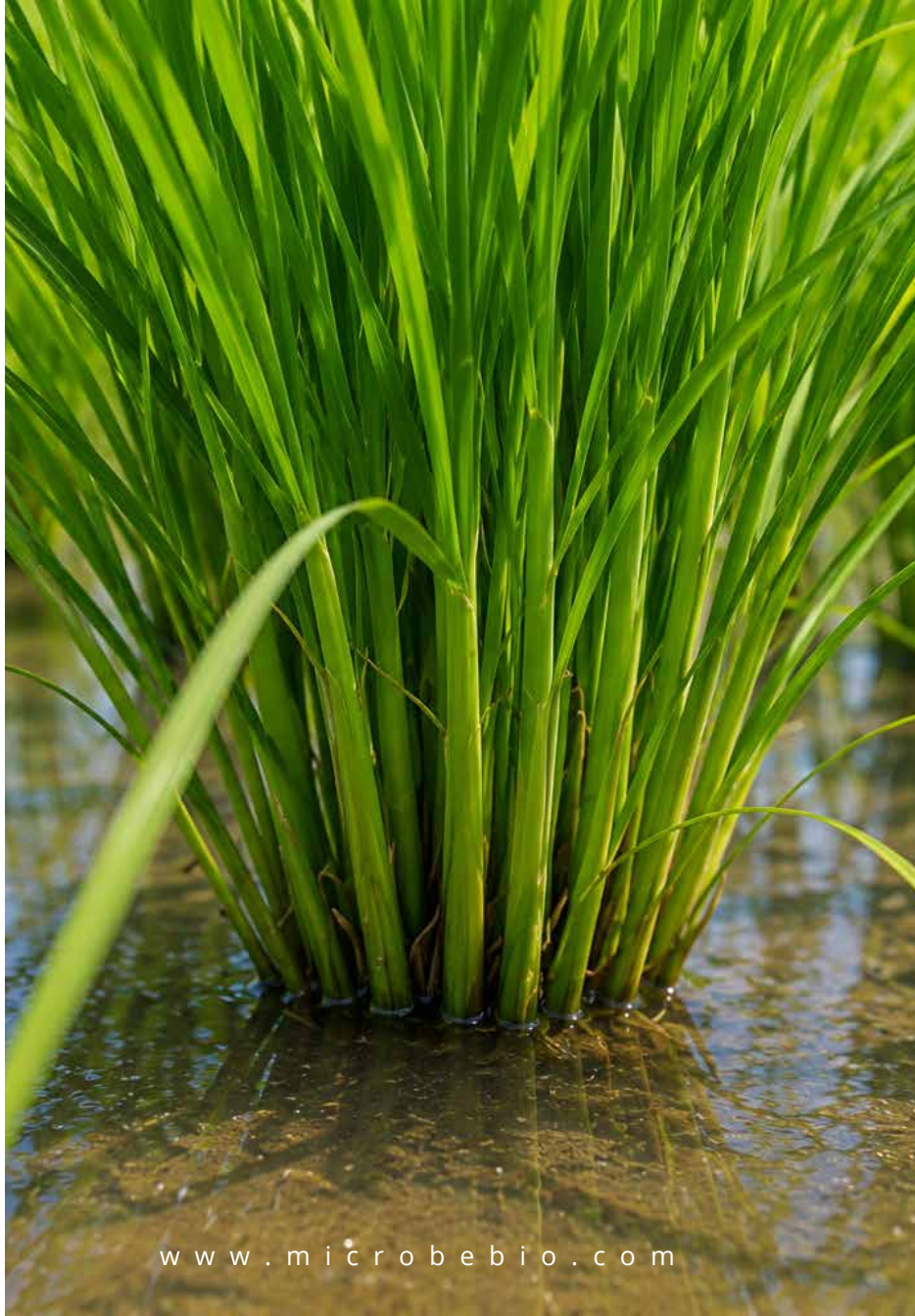
- Stimulates vigorous root growth
- Increases root density and branching
- Improves nutrient acquisition
- Enhances water uptake efficiency

ENHANCE PHOTOSYNTHESIS

- Increases chlorophyll production
- Improves light utilization
- Promotes stronger plant metabolism
- Supports greater carbohydrate production

IMPROVE NUTRIENT UTILIZATION

- Maximizes fertilizer efficiency
- Improves nutrient uptake
- Enhances nutrient translocation
- Reduces nutrient losses



INCREASE STRESS TOLERANCE

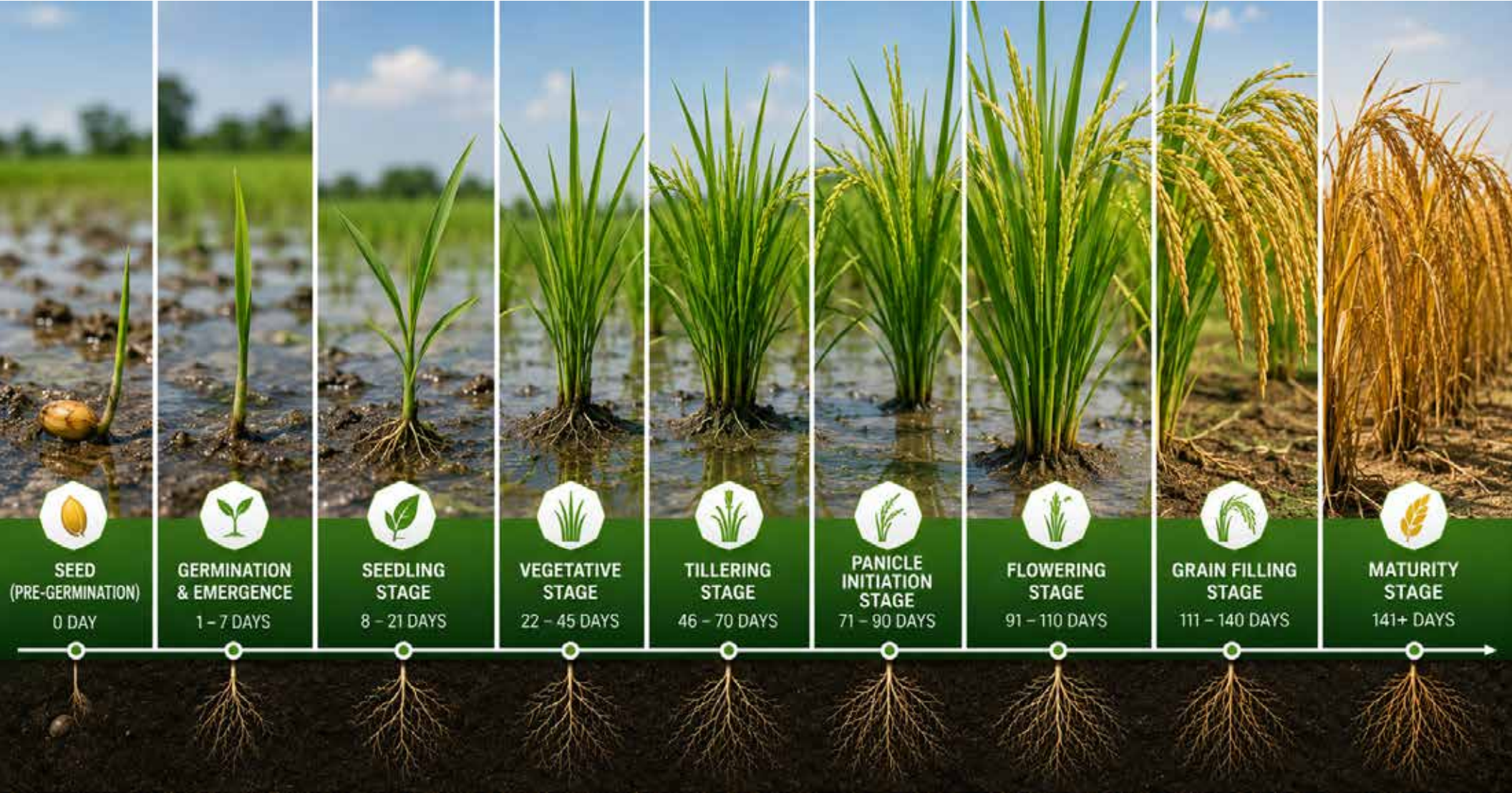
- Supports drought tolerance
- Enhances flood recovery
- Improves heat tolerance
- Helps plants overcome environmental stress

IMPROVE GRAIN DEVELOPMENT

- Enhances panicle formation
- Improves grain filling
- Increases grain weight
- Improves grain uniformity

PRODUCE PREMIUM RICE QUALITY

- Improves aroma development
- Enhances taste and texture
- Increases milling recovery
- Improves grain appearance
- Extends shelf life



Seed Germination and Establishment



SEED GERMINATION AND ESTABLISHMENT

Nature Phenom Rice helps:

- Improve germination rates
- Enhance seed vigor
- Promote uniform emergence
- Strengthen seedling development
- Improve stand establishment

PLANT RESPONSE

- Young rice plants establish faster, develop stronger root systems, and become more resilient to environmental stresses.



Vegetative Growth Stage



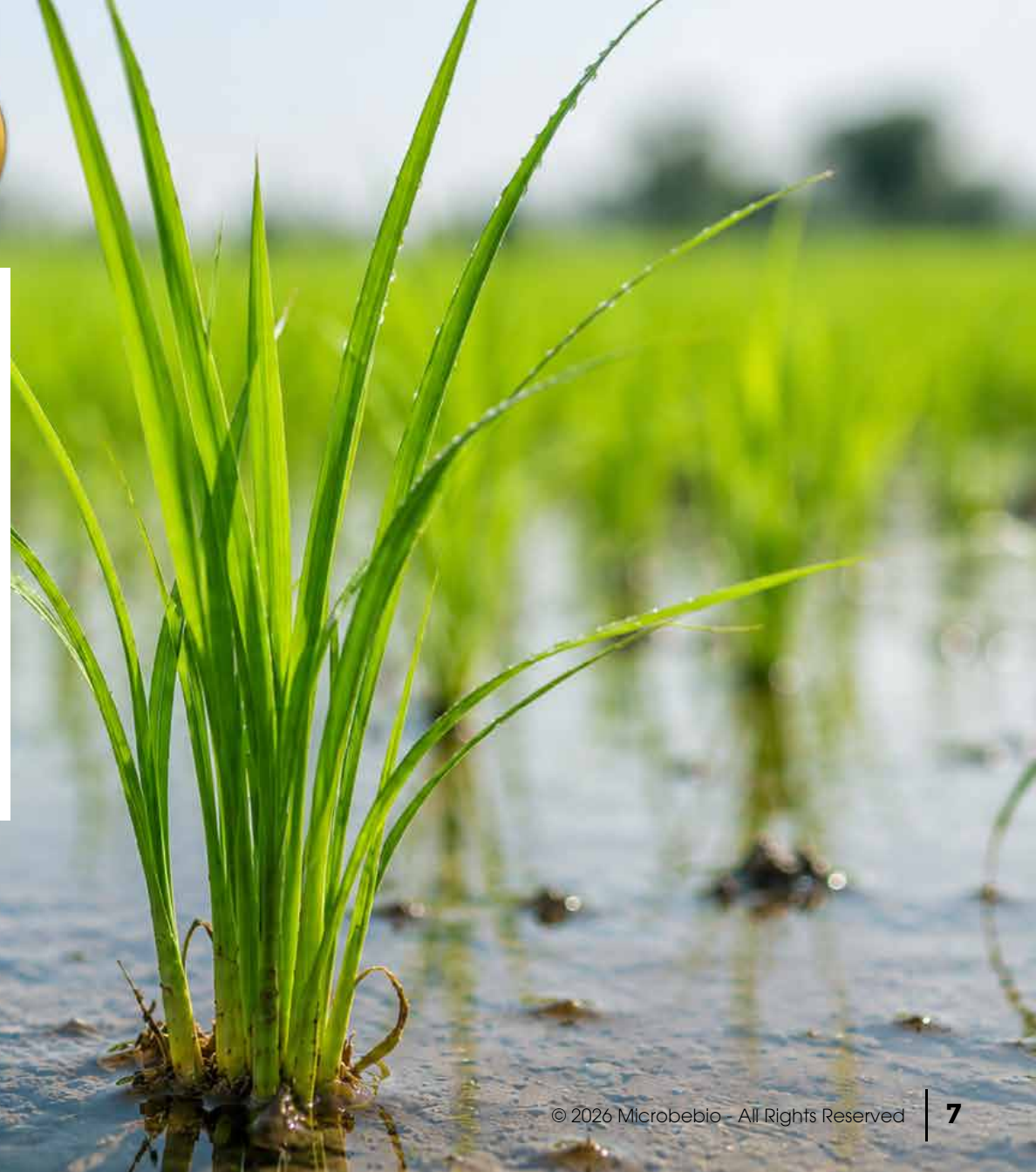
VEGETATIVE GROWTH STAGE

Nature Phenom Rice promotes:

- Rapid root expansion
- Increased tiller formation
- Enhanced leaf development
- Improved nutrient absorption
- Higher chlorophyll levels

PLANT RESPONSE

- Plants develop a stronger canopy, greater photosynthetic capacity, and improved nutrient efficiency.



Tillering Stage



TILLERING STAGE

Nature Phenom Rice supports:

- Increased productive tillers
- Improved tiller survival
- Greater biomass production
- Enhanced nutrient utilization

PLANT RESPONSE

- More productive stems are retained through maturity, increasing overall yield potential.



Panicle Initiation Stage



PANICLE INITIATION STAGE

Nature Phenom Rice stimulates:

- Larger panicle development
- Increased spikelet formation
- Enhanced reproductive growth
- Improved nutrient allocation

PLANT RESPONSE

- The crop establishes a higher yield ceiling before flowering begins.

Flowering Stage



FLOWERING STAGE

Nature Phenom Rice helps:

- Improve flowering uniformity
- Enhance pollination success
- Reduce spikelet sterility
- Improve reproductive efficiency

PLANT RESPONSE

- More grains are successfully formed and retained.



Grain Filling Stage



GRAIN FILLING STAGE

Nature Phenom Rice supports:

- Enhanced carbohydrate accumulation
- Improved grain filling
- Increased grain density
- Better grain weight

PLANT RESPONSE

- The crop converts more photosynthetic energy into marketable grain.

Maturation Stage



MATURATION STAGE

Nature Phenom Rice promotes:

- Uniform grain maturity
- Improved grain appearance
- Enhanced harvest quality
- Better storage stability

PLANT RESPONSE

- Higher-value grain with improved market acceptance.



BENEFITS FOR EVERY PART OF THE RICE PLANT



ROOT SYSTEM

NATURE PHENOM RICE HELPS:

- Increase root mass
- Improve nutrient absorption
- Improve oxygen utilization
- Support beneficial rhizosphere activity
- Enhance drought and flood tolerance



STEMS AND TILLERS

NATURE PHENOM RICE HELPS:

- Strengthen stems
- Improve tiller retention
- Reduce lodging
- Improve nutrient transport

LEAVES

NATURE PHENOM RICE HELPS:

- Increase chlorophyll production
- Enhance photosynthesis
- Improve energy production
- Extend green leaf duration



PANICLES

NATURE PHENOM RICE HELPS:

- Increase panicle size
- Improve spikelet development
- Improve grain formation



GRAIN

NATURE PHENOM RICE HELPS:

- Improve grain weight
- Increase grain density
- Improve grain uniformity
- Enhance grain quality



PREMIUM GRAIN QUALITY BENEFITS

ENHANCED AROMA

- Nature Phenom Rice promotes the biological pathways associated with aroma compound production, helping premium aromatic rice varieties achieve stronger and more desirable fragrance characteristics.

IMPROVED TASTE

- Benefits include:
- Improved starch development
- Better cooking quality
- Improved mouthfeel
- Enhanced texture consistency

IMPROVED APPEARANCE

- More uniform grain shape
- Better grain color
- Improved grain finish
- Reduced chalkiness
- Improved Milling Recovery
- Higher head rice yield
- Fewer broken kernels
- Better processing efficiency

EXTENDED SHELF LIFE

- Improved grain integrity
- Better storage performance
- Reduced quality deterioration



SYNERGY WITH THE COMPLETE MICROBEBIO® RICE SYSTEM

Nature Phenom Rice serves as the central biological enhancement technology and works synergistically with:

X1™

Supports root-zone health, nutrient cycling, and beneficial soil ecology.

RHIZO ACTIVATOR™

Builds long-term soil fertility and improves root-zone productivity.

NATURE VIGOR™

Enhances soil organic matter dynamics, moisture retention, and biological activity.

HYDRO ACTIVATOR™

Provides readily available organic nutrients, amino acids, peptides, and natural growth compounds.

X3™

Provides biological protection against economically important rice insect pests.

X5™

Supports biological protection against fungal and disease pressures.

NANO S9™

Improves plant strength, silica nutrition, stress resistance, and lodging reduction.

FOLIAR™

Enhances photosynthesis, nutrient efficiency, and reproductive performance.

UPSHOT™

Provides supplemental nutrition to support maximum yield potential.

ENVIRONMENTAL SUSTAINABILITY BENEFITS

Nature Phenom Rice supports regenerative rice production by:

- Improving nutrient-use efficiency
- Reducing fertilizer losses
- Supporting soil regeneration
- Increasing biological diversity
- Reducing nutrient runoff
- Protecting waterways
- Supporting carbon sequestration
- Enhancing long-term soil productivity



HUMAN AND ANIMAL HEALTH BENEFITS

Nature Phenom Rice promotes sustainable food production systems by:

- Supporting reduced dependence on synthetic agricultural inputs
- Encouraging biologically active soils
- Improving nutrient density of harvested grain
- Protecting water quality
- Supporting biodiversity
- Reducing environmental contamination risks
- Creating healthier agricultural ecosystems for farming communities, livestock, wildlife, and future generations



NATURE PHENOM RICE™
SPECIALIZED BIOLOGICAL
TECHNOLOGY FOR RICE
STRONGER ROOTS • MORE TILLERS
• LARGER PANICLES • BETTER GRAIN
FILLING • HIGHER YIELD • SUPERIOR
AROMA • IMPROVED TASTE • PREMIUM
GRAIN QUALITY • EXTENDED SHELF
LIFE • SUSTAINABLE RICE PRODUCTION



THIS VERSION POSITIONS NATURE PHENOM
RICE™ AS THE FLAGSHIP RICE-SPECIFIC
FORMULA THAT REPLACES AQUA ACTIVATOR™
IN RICE PRODUCTION, WHILE THE OTHER
MICROBEBIO PRODUCTS FUNCTION AS
COMPLEMENTARY TECHNOLOGIES AROUND IT.

