

The logo for Phosforce™ is located in the top right corner. It consists of the word "PHOSFORCE" in a bold, white, sans-serif font, with a trademark symbol (™) to its upper right. The text is set against a dark orange background that is part of a larger graphic element resembling a stylized banner or flag with a white triangular cutout on the right side.

# Phosforce™ in Rice

LACA 2026

Cullen Minter

Koch Agronomic Services



**LARGER MOLECULES:  
HARDER TO BREAK DOWN**



**SMALLER MOLECULES:  
BROKEN DOWN BY SOIL ACTIVITY**



**FREE PHOSPHATE:  
PLANT AVAILABLE**



**PHOSFORCE**



**UTC**



# PHOSFORCE on Rice Aerial Imagery

PHOSFORCE™

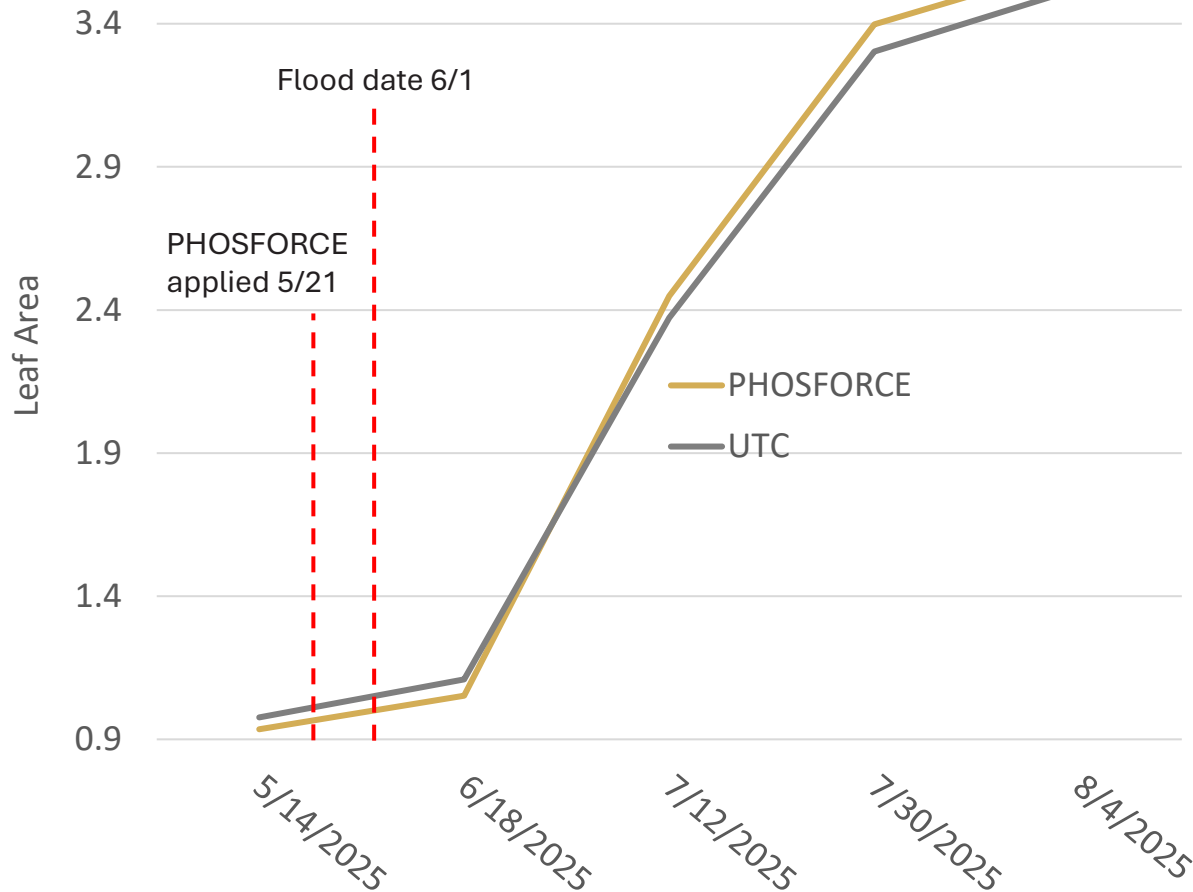


A 3-year historical NDRE (plant health) analysis was conducted using satellite imagery to determine field zones:

- Historically low productivity (zone 1) was dominate in the part of the field where PHOSFORCE was applied.
- Historically high productivity (zone 2) was dominate in the untreated part of the field.

# PHOSFORCE on Rice Aerial Imagery

PHOSFORCE™



“Leaf area” as measured by an index of m<sup>2</sup> of green tissue/m<sup>2</sup> area

Satellite imagery analysis from 5/14/25 to 8/04/25 of a split field trial showed that PHOSFORCE broadcast applied on rice:

- Improved total leaf area (tillering) after flooding and through reproduction
- Leading to a **+51 bu/acre (14.1 barrels/acre)** yield advantage over untreated

**PHOSFORCE™**

**PHOSFORCE**

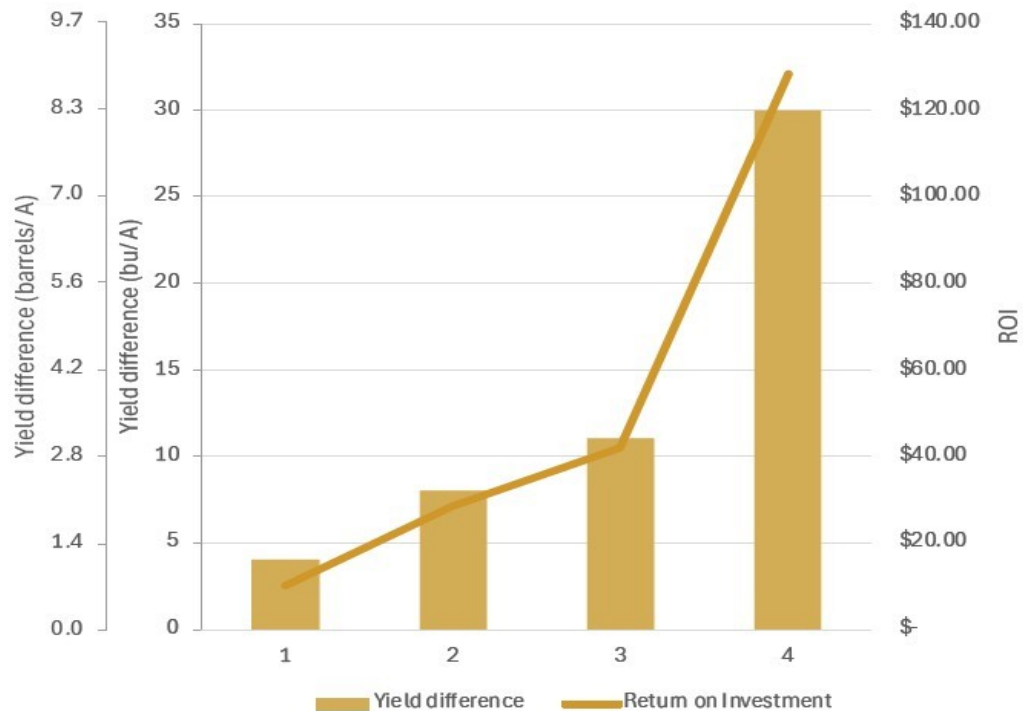
**UTC**



*51 bu/ac (14.1 barrels/acre)  
advantage for PHOSFORCE-treated  
rice in a 2025 split field trial*

## Replicated Small Plot Rice Yield Results

- **4 trials** conducted in Mississippi between 2022-2023
- Applications at 8 and 12 oz/acre
- Average yield gain of **13 bu/ac** (3.6 barrels/ac)
- Numerical positive yield response for PHOSFORCE (paired t-test,  $P < 0.106$ )



*\$52.29/acre average ROI on replicated trials.\**

\*ROI cost assumptions are \$10.11/cwt rough rice price, Dec. 2025.

# PERFORMANCE RESULTS

Crop	Average Yield Results
Corn	+5-6 bu/a
Soybeans	+3 bu/a
Alfalfa / Haylage	+945 lbs/a
Cotton	+33-79 lbs/a
Spring Wheat	+12.6 bu/a
Sorghum	+3 bu/a
Rice	+13.3 bu/a
Almonds	+523 lbs/a
Potato	+22.4 cwt/a



## Results across various crops

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