

# 'Russet Burbank' Potatoes

2015 Research Summary

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## Trial Summary

**Researched By:** Agri Tech Consulting

**Location:** Whitewater, Wisconsin

**Growing Season:** 2015

**Objective:** To evaluate the benefit of Nutricor<sup>®</sup> and Komodo<sup>®</sup> on the yield of 'Russet Burbank' Potatoes.

## Methodology

Prior to planting, conventional tillage was implemented to prepare the field. 'Russet Burbank' Potatoes were then planted on May 1. Emergence occurred on May 25. Potatoes were harvested on October 15 and total yield was calculated after harvest. The experimental design used was a randomized complete block with four replications.

## Treatment Applications

The Grower Standard Practice (GSP) for fertilizing potatoes in Wisconsin is the following:

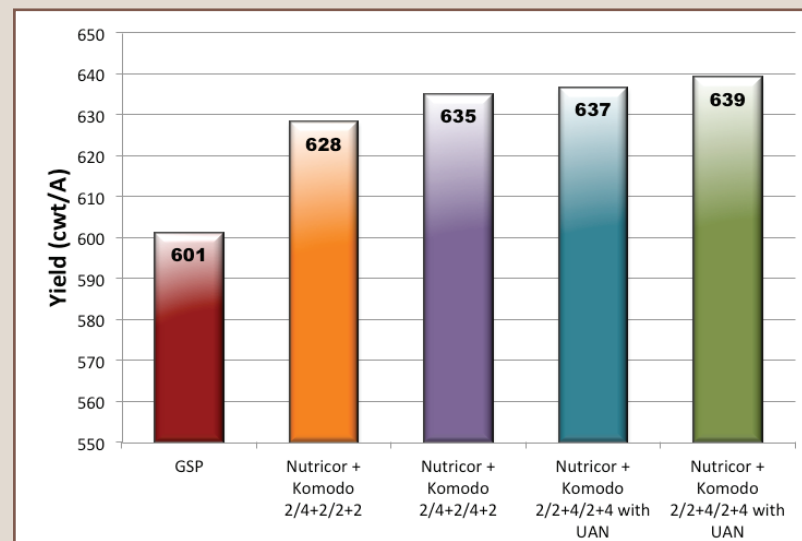
- Pre-Planting: 100 pounds per acre (lbs/A) 46-0-0, 200 lbs/A 18-46-0, and 300 lbs/A 0-0-60.
- Tuber Bulking: On July 4, 144 lbs/A of UAN32 as a side-dress

Specific treatments:

1. GSP
2. Nutricor + Komodo ("2/4+2/2+2") — 2 GPA in-furrow at planting, 4 GPA foliar spray at shoot emergence and 2 GPA at tuber initiation with Komodo applied at 2 GPA at shoot emergence and tuber initiation
3. Nutricor + Komodo ("2/4+2/4+2") — 2 GPA in-furrow at planting, 4 GPA foliar spray at shoot emergence and at tuber initiation with Komodo applied at 2 GPA at shoot emergence and tuber initiation
4. Nutricor + Komodo ("2/2+4/2+4") +UAN — 2 GPA in-furrow at planting, 2 GPA foliar spray at shoot emergence and tuber initiation with Komodo applied at 4 GPA at shoot emergence and tuber initiation. UAN was applied as a foliar spray at 4 GPA at shoot emergence and tuber initiation
5. Nutricor + Komodo ("2/0+2/0+2") + UAN — 2 GPA in-furrow at planting with Komodo applied at 2 GPA at shoot emergence and tuber initiation. UAN was applied as a foliar spray at 4 GPA at shoot emergence and tuber initiation

## Results and Conclusions

The total yield was 628 hundredweight per Acre (cwt/A) for potatoes treated with Nutricor and Komodo ("2/4+2/2+2"), and 635 cwt/A for potatoes treated similarly with increased Nutricor at shoot emergence ("2/4+2/4+2"). This equates to a 4.5% and 5.7% increase in yield over the GSP, respectively. These yields are comparable to 637 cwt/A for potatoes treated with Nitrogen ("2/2+4/2+4"+UAN), and 639 cwt/A for potatoes treated with Nitrogen without Nutricor at shoot emergence and tuber initiation ("2/0+2/0+2"+UAN). This study shows that **Nutricor and Komodo can be combined to increase yields of potatoes without the need for additional Nitrogen application.**



 **Nutricor<sup>®</sup>**

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