

## **INTRACEPT ON POTATO**

NAP has introduced a new product *Intracapt*. Replicated small plot experiments in the Columbia Basin in 2003 showed that Intracapt applied to the foliage of Russet Burbank potatoes at one (1) pint per acre when the tubers were between 1 and 2 inches in diameter significantly ( $p < 0.007$ ) increased yields from an average of 38 to 46 tons per acre. The major factor was an increase ( $p < 0.007$ ) in the Number 1's greater than six ounces from 22 tons/acre to 27.7 tons per acre. There were no statistical differences in any other size range.

The trial was a complete randomized design with four blocks. NAP's Intracapt was applied at the label rate of 1 pint per acre and at twice the label rate at 2 pints per acre. As a comparison the product CropSet was applied at the label rate of 0.5 pints per acre. All materials were diluted and applied on July 6, 2003 in 10 gallons of water per acre using a backpack sprayer.

The tubers were hand dug and the potatoes from each plot graded by the WSDA potato grading station. Data analysis was by one-way ANOVA. Intracapt at the label rate significantly increased yield ( $p < 0.007$ ). Intracapt at the 2X rate did not change the yield. CropSet did not significantly change yield compared to the control in either total yield or size class. The average yields per size class are shown in Table 1. The data is presented graphically in Figure 1.

Alan S. Wicks, Ph.D.  
Director of R&D  
Plant Nutrient Enhancing Technologies Group  
EXCEL Bldg Complex  
Northwest Agricultural Products  
Pasco, WA 99301  
January 22, 2004

| Average Yield In Calculated Tons per Acre |              |                 |                 |                 |                 |            |       |
|---|--------------|-----------------|-----------------|-----------------|-----------------|------------|-------|
|   | Total Weight | No. 1's 4-6 oz. | No. 1's > 6 oz. | No. 2's 4-6 oz. | No. 2's > 6 oz. | Trim Culls | Culls |
| Control                                   | 38.10        | 9.79            | 22.18           | 0.28            | 3.20            | 0.48       | 2.16  |
| CropSet                                   | 39.72        | 8.62            | 23.57           | 0.24            | 5.57            | 0.32       | 1.40  |
| Intrasept - 1X                            | 46.22**      | 9.61            | 27.75**         | 0.34            | 6.32            | 0.40       | 1.82  |
| Intrasept - 2X                            | 38.18        | 9.06            | 21.75           | 0.52            | 3.96            | 0.62       | 2.26  |

Table 1. Average calculated tons per acre of Russet potato by total yield and yield by weight class. \*\*Significantly different from the control p<0.01

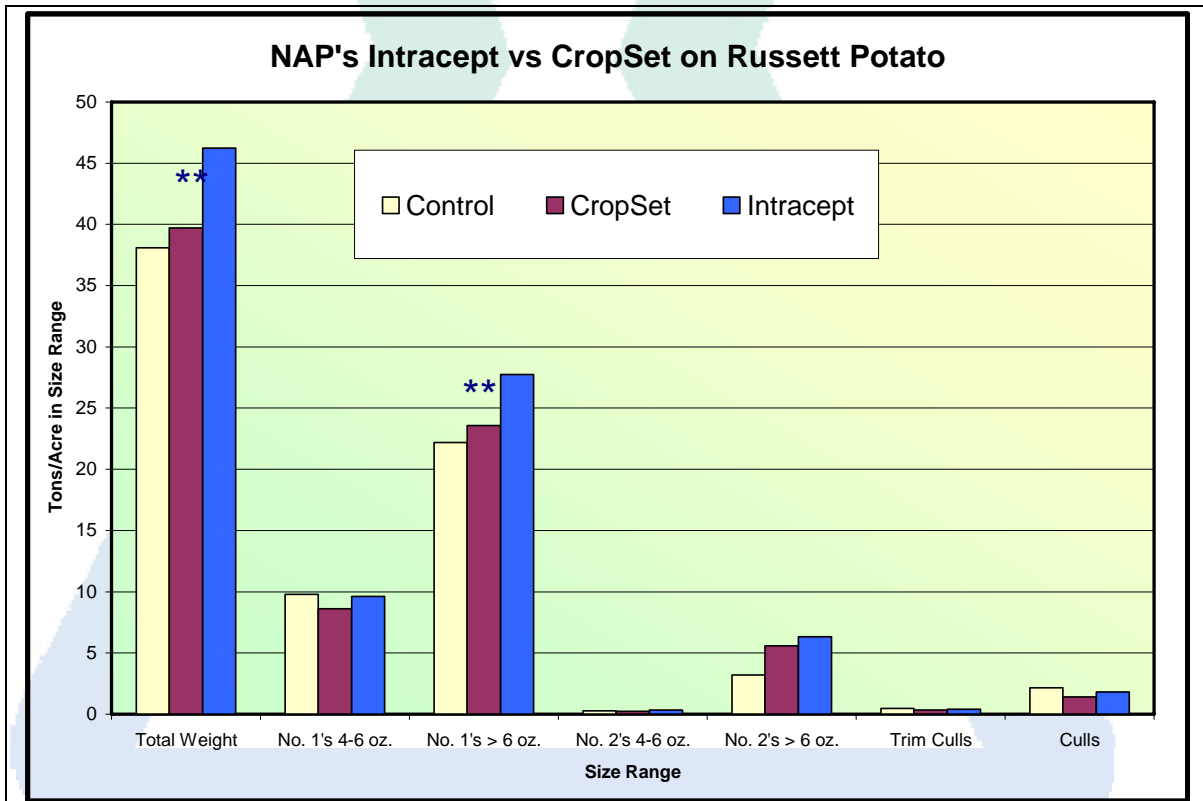


Figure 1. Average calculated tons per acre of Russet potato by total yield and yield by weight class. \*\* Significantly different from the control p<0.01.