



## *Early Application of 1,4SIGHT® Improves Long Term Sprout Control*

TREATMENT REGIMES RANKED BY % SPROUTED TUBERS, STORED AT 40 °F FROM OCTOBER 2004 UNTIL MAY 2005			
% Sprouted Tubers - sprouts greater than 1/16", May 17, 2005			
R. Norkotah		Medium Dormancy Variety	
1,4SIGHT®, CIPC, 1,4SIGHT®	2%	1,4SIGHT®, CIPC, 1,4SIGHT®	3%
1,4SIGHT® (4)	2%	1,4SIGHT®, ½ rate CIPC, 1,4SIGHT®	6%
1,4SIGHT®, ½ rate CIPC, 1,4SIGHT®	3%	1,4SIGHT® (4)	7%
CIPC, 1,4SIGHT®	8%	1,4SIGHT®, CIPC	13%
1,4SIGHT®, CIPC	10%	CIPC, 1,4SIGHT®	23%
CIPC + Clove Oil mix	33%	CIPC	25%
CIPC	35%	Clove Oil	30%
Clove Oil	73%	CIPC + Clove Oil mix	37%
Untreated	100%	Untreated	83%
Short Dormancy Variety		Long Dormancy Variety	
1,4SIGHT®, CIPC, 1,4SIGHT®	4%	1,4SIGHT®, CIPC, 1,4SIGHT®	0%
1,4SIGHT® (4)	8%	1,4SIGHT®, ½ rate CIPC, 1,4SIGHT®	2%
1,4SIGHT®, ½ rate CIPC, 1,4SIGHT®	12%	CIPC + Clove Oil mix	3%
1,4SIGHT®, CIPC	17%	CIPC, 1,4SIGHT®	3%
CIPC, 1,4SIGHT®	21%	1,4SIGHT®, CIPC	4%
CIPC	33%	1,4SIGHT® (4)	6%
CIPC + Clove Oil mix	33%	CIPC	10%
Clove Oil	37%	Clove Oil	48%
Untreated	93%	Untreated	95%

### *Drum Study Fresh Pack*

- R. Norkotah and three different European varieties were used.
- Potatoes were stored at 40 °F from October, 2004 until May, 2005.
- The research tested various treatment regimes, with 4-6 weeks between applications.
- This table shows the percentage of tubers with sprouts larger than 1/16" in size.
- The results showed a significant reduction in sprouting with an early treatment of 1,4SIGHT®.

Figure 1

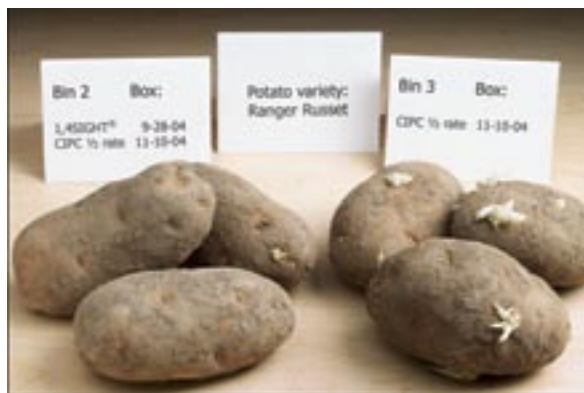
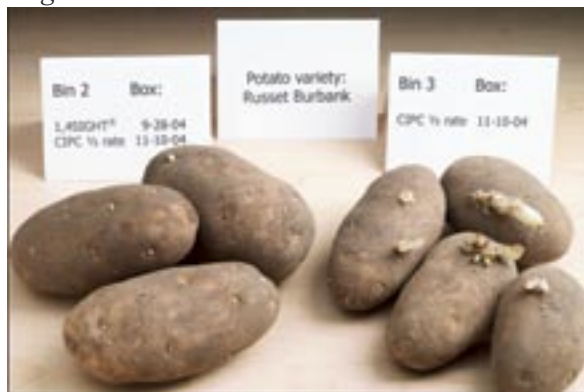


Figure 1: 8½ months at 4°8-50°F. Reduced rate of CIPC with and without early 1,4SIGHT® treatment.

Figure 2

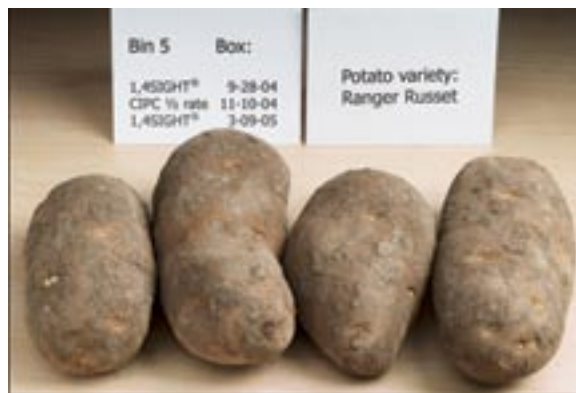
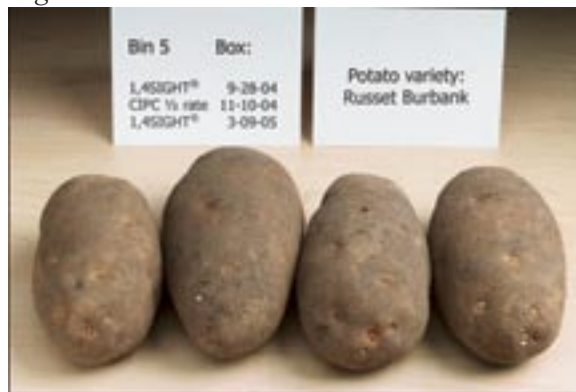


Figure 2: 8½ months at 4°8-50°F. Reduced rate of CIPC plus early and late application of 1,4SIGHT®.

## Processing Study Results

- Samples were placed in one-ton boxes, cured, then held at 48° - 50° F from late September, 2004 to June, 2005. Treatments were duplicated across six bins filled with Russet Burbank, Ranger Russet, and a chipping variety.
- Three different treatment regimes were tested:
  - Regime 1:** ½ rate CIPC only (11/10/04)
  - Regime 2:** 1,4SIGHT® (9/28/04) followed by ½ rate CIPC (11/10/04)
  - Regime 3:** 1,4SIGHT® (9/28/04) followed by ½ rate CIPC (11/10/04), followed by 1,4SIGHT® (3/9/05)
- After 8½ months, potatoes treated with 1,4SIGHT® in the first week of storage showed minimum sprouting.