



ENCOURAGE NANOCAL Improving Potato Yield and Health

TARGET: Yield Increase

CROP: Yukon Gold potatoes

TRIAL DATE: May 18 – October 18, 2018

RESEARCHER: Agri-Tech Consulting

LOCATION: Whitewater, WI, USA

TRIAL GOAL

To quantify any effect ENCOURAGE® NANOCAL® has on potato yield and health.

KEY FINDINGS

ENCOURAGE NANOCAL increased the yield, both in terms of lbs./A and # spuds/A, at all four application rates (1 pt., 2 pt., 4 pt., and 8 pt. per acre) compared to the untreated check. The generally-recommended rate of 2 pt./A increased lbs./A by 7.4% and # spuds/A by 6.4%.

The incident of hollow heart was reduced for all NANOCAL application rates from a high of 3.5% for the untreated check. The 2 pt./A rate reduced the incidences to 1.9%, a reduction of 45.7% compared to the UTC.

The NANOCAL applications also reduced the incidence of seed decay measured 55 days after planting. The standard NANOCAL rate of 2 pt./A reduced seed decay from a high of 18.6% for the UTC seed pieces to 13.1% — a reduction of 29.6%.

APPLICATION

The test plots (10" x 25") were planted with Yukon Gold potatoes, one seed piece per 10"-12" of row, on May 18, 2018. The soil was a Kidder sandy loam with a pH of 6.3 and a Ca level of 1355 ppm from a soil test on May 1, 2018. The fertilizer program was 100 lbs./A of 18-46-0 and 100 lbs./A of 46-0-0 applied on May 15 and 144 lbs./A of 32-0-0 side-dressed on July 10.

ENCOURAGE NANOCAL was applied to the plots arranged in a randomized complete block design and each application was replicated 4 times. The rates of NANOCAL applied were 1 pt./A; 2 pt./A; 4 pt./A and 8 pt./A. There was an untreated check that received fertilizer applications but no NANOCAL applications.

The NANOCAL was foliar applied at the hook stage of tuber development with a 15 gpa water volume on June 8, 2018 — 3 weeks after planting.

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See page 2 for complete trial results.



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RESULTS

ENCOURAGE NANOVAL improved every metric for yield and tuber health at every rate it was applied

