



**FIELD MANAGEMENT OF FORTRESS
RUSSET FOR SUCCESSFUL TUBER
YIELD AND QUALITY**

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THANK YOU
FOR THE
SUPPORT

FORTRESS RUSSET (AC99375-1RU)

- ✓ PVY Resistant
- ✓ Can yield up to 500 cwt/Acre
- ✓ It is a large plant

♣ Pay attention to field management



Fortress Russet

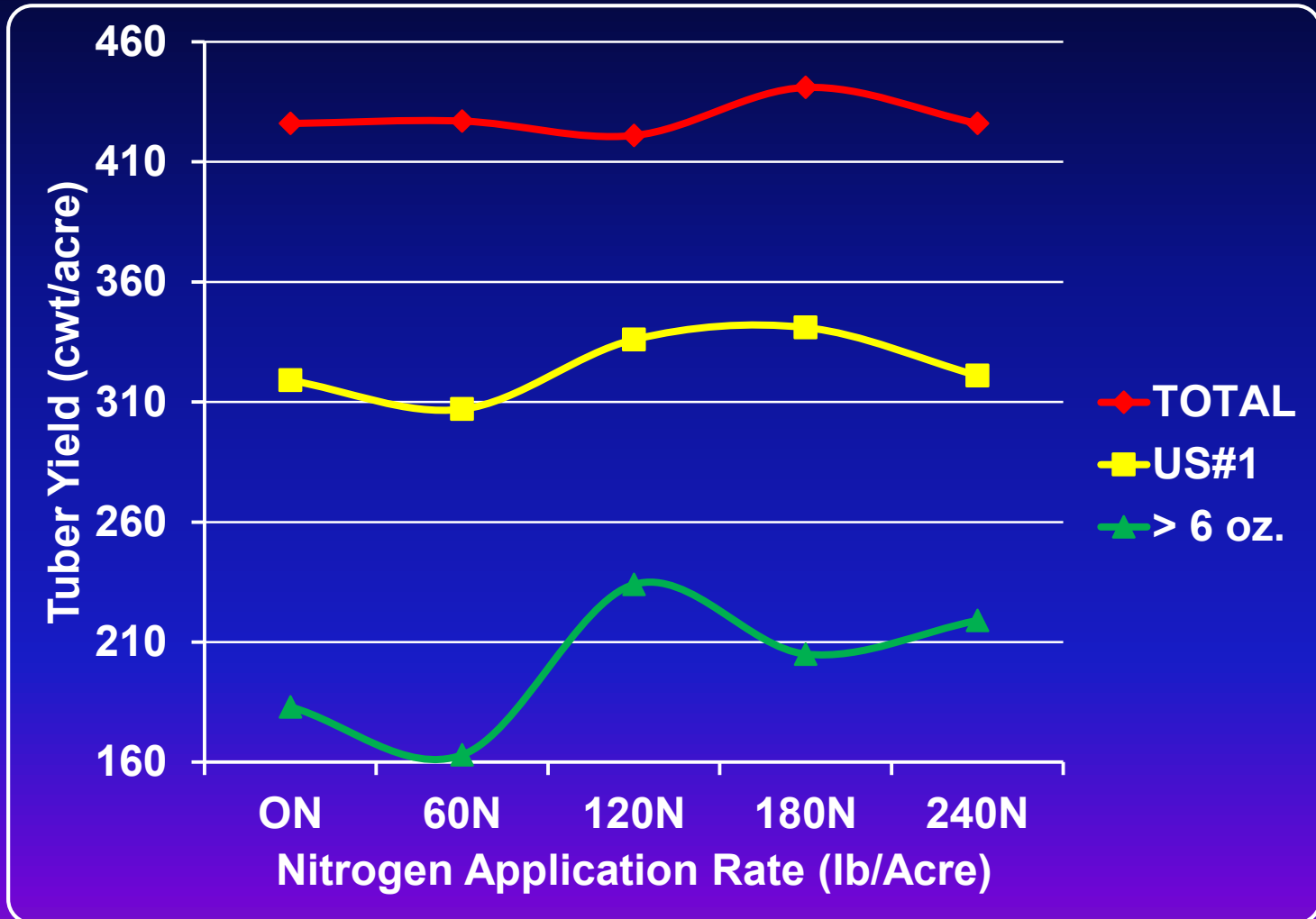
A wide-angle photograph of a potato field. The foreground and middle ground are filled with rows of potato plants. Some plants have vibrant purple flowers, while others have white flowers. The plants are lush and green. In the background, a flat horizon line separates the field from a clear blue sky filled with large, fluffy white cumulus clouds. The overall scene is bright and sunny.

Each potato cultivar is unique in its N fertilizer requirement and N fertilizer application timing for maximum tuber performance



NITROGEN APPLICATION RATE

EFFECT OF NITROGEN APPLICATION RATE ON TUBER YIELD OF FORTRESS RUSSET

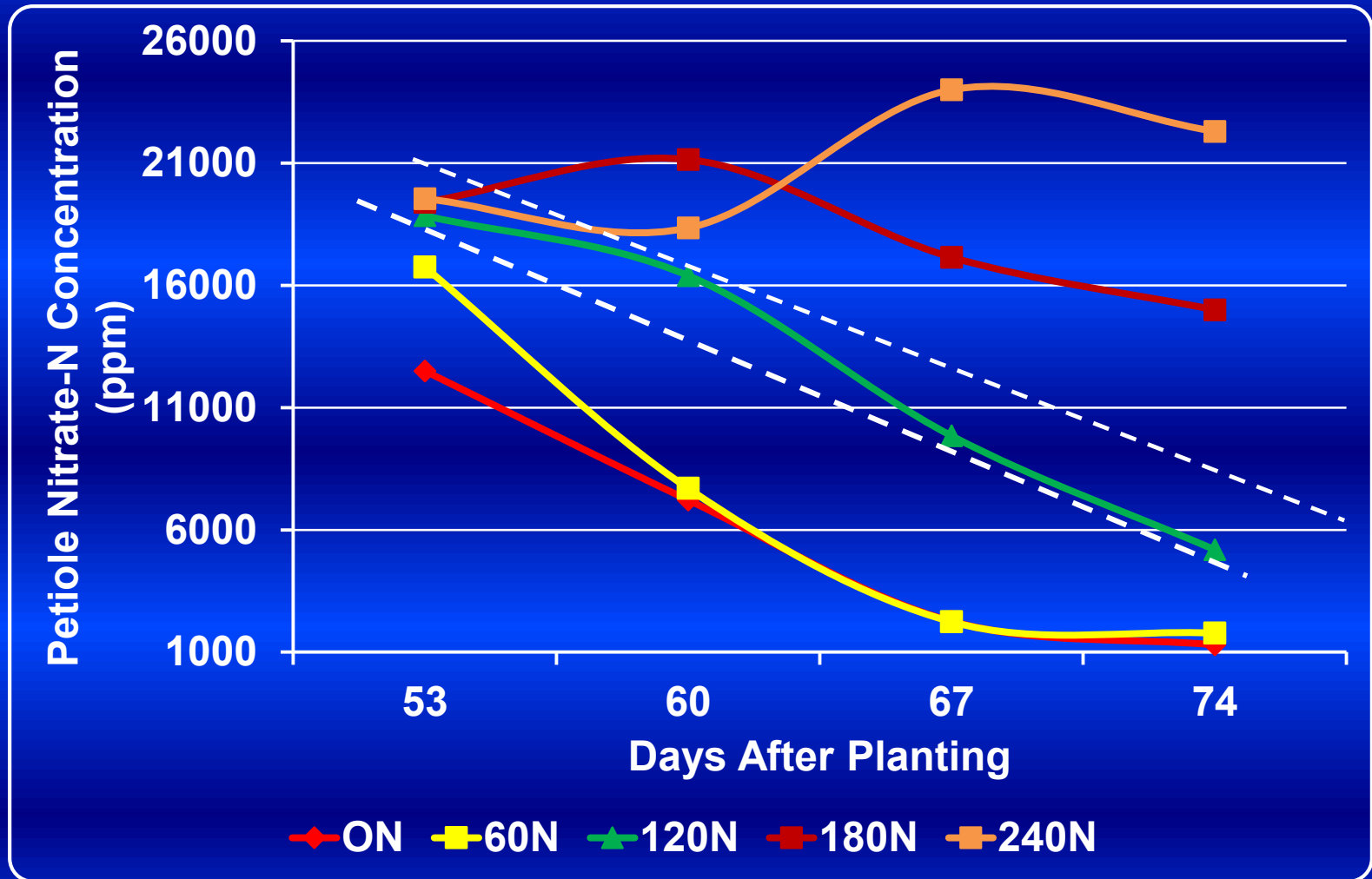


(Soil + Irrigation Water Nitrogen = 20 lb./Ac.)

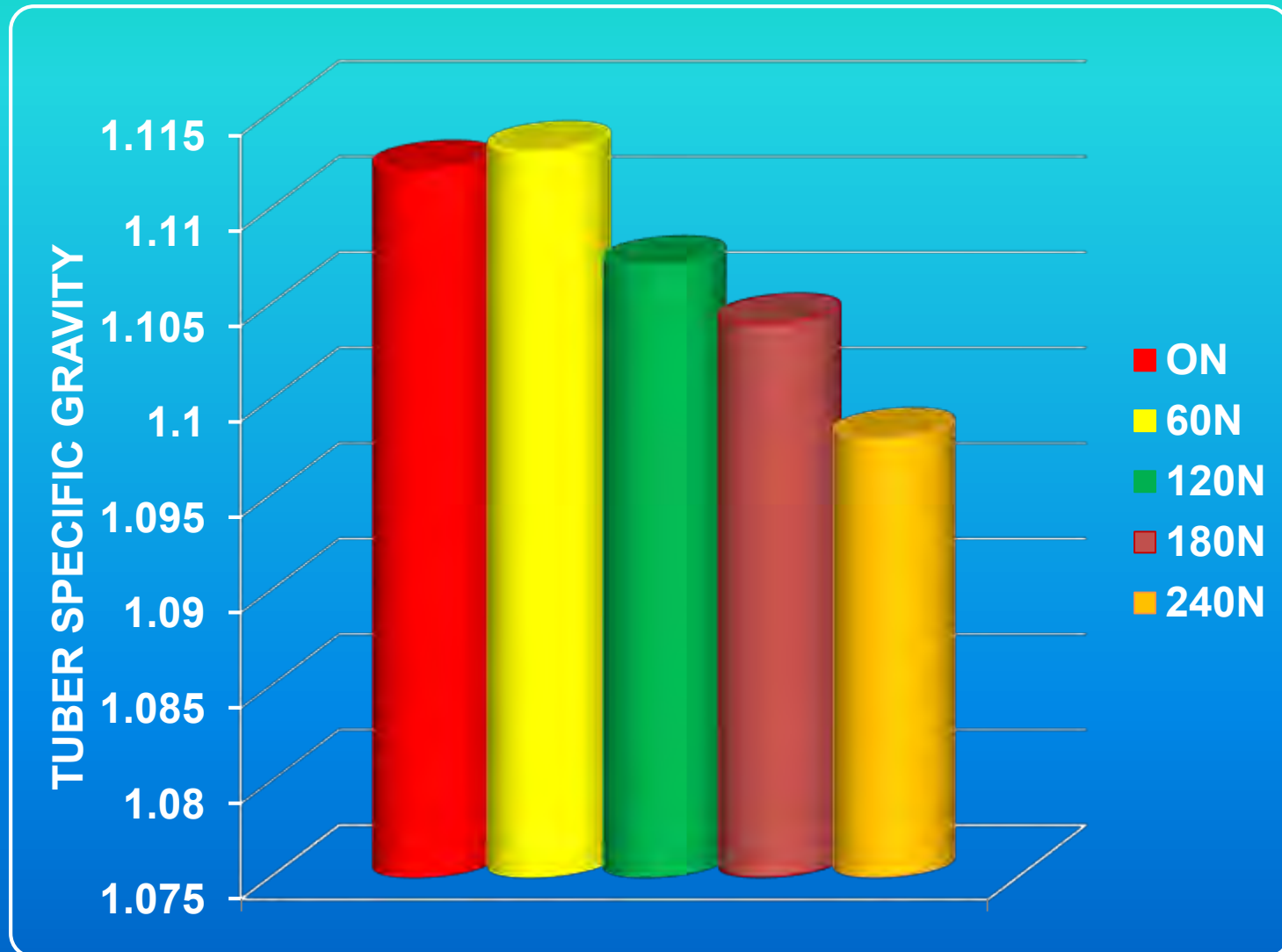


IN-SEASON NITROGEN MANAGEMENT

EFFECT OF NITROGEN APPLICATION RATE ON PETIOLE NITRATE-N CONCENTRATION OF FORTRESS RUSSET



EFFECT OF NITROGEN APPLICATION RATE ON TUBER SPECIFIC GRAVITY OF FORTRESS RUSSET



An aerial photograph of a vast agricultural landscape. The foreground and middle ground are dominated by a dense grid of rectangular fields, interspersed with numerous circular irrigation patterns. The colors range from light green to dark green, indicating different stages of crop growth or soil moisture. In the far distance, a range of blue mountains is visible under a sky with scattered white clouds. The overall scene depicts a large-scale, organized agricultural operation.

PRE-PLANT N APPLICATION RATE



● **Planted potato seed tuber takes 3 to 4 weeks before developing active roots that can feed on applied nutrients**

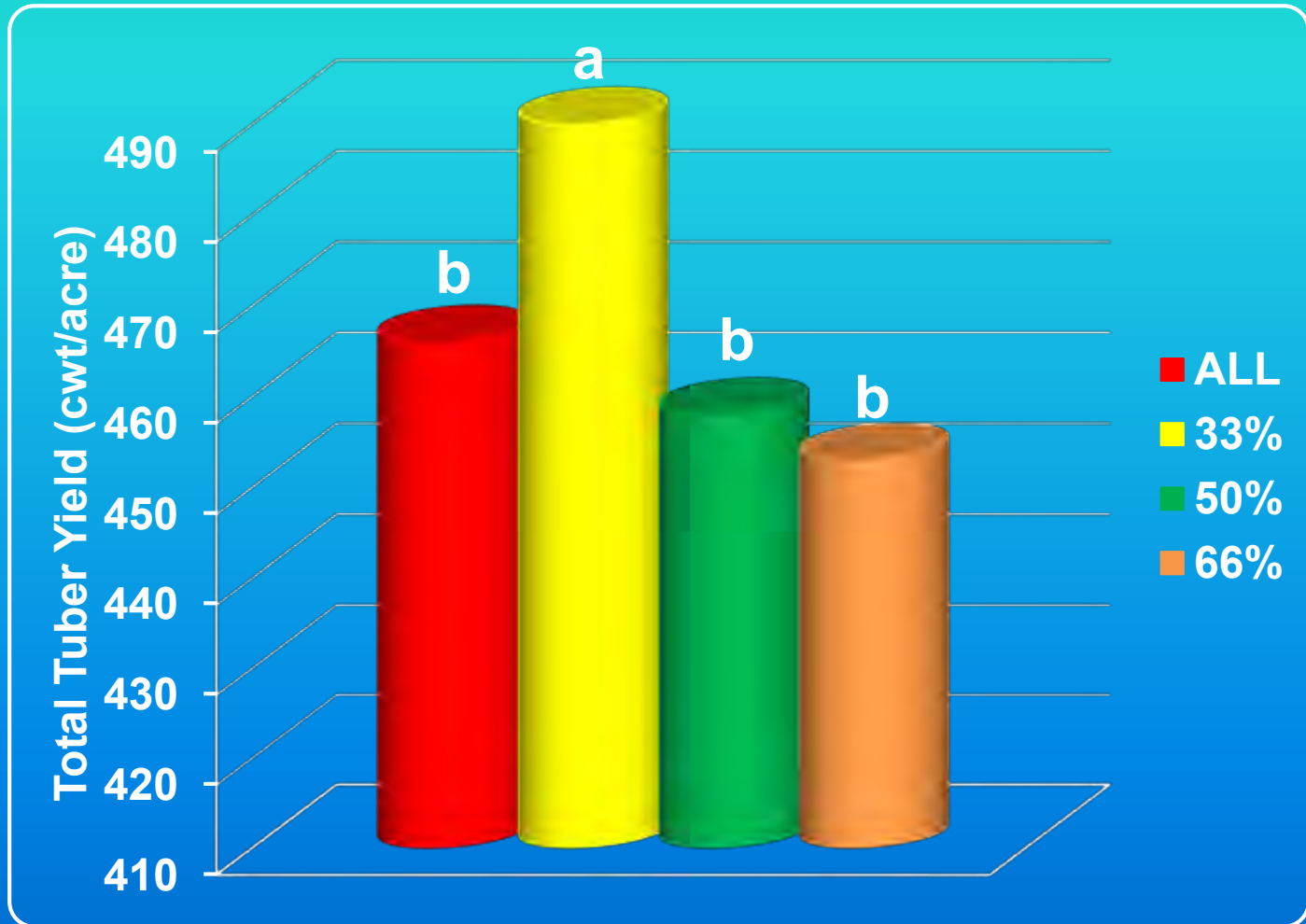
● **Until then, N applied pre-plant or at planting has the potential of being leached to underground and surface waters**

Total Applied: 140 lb. N/Ac.

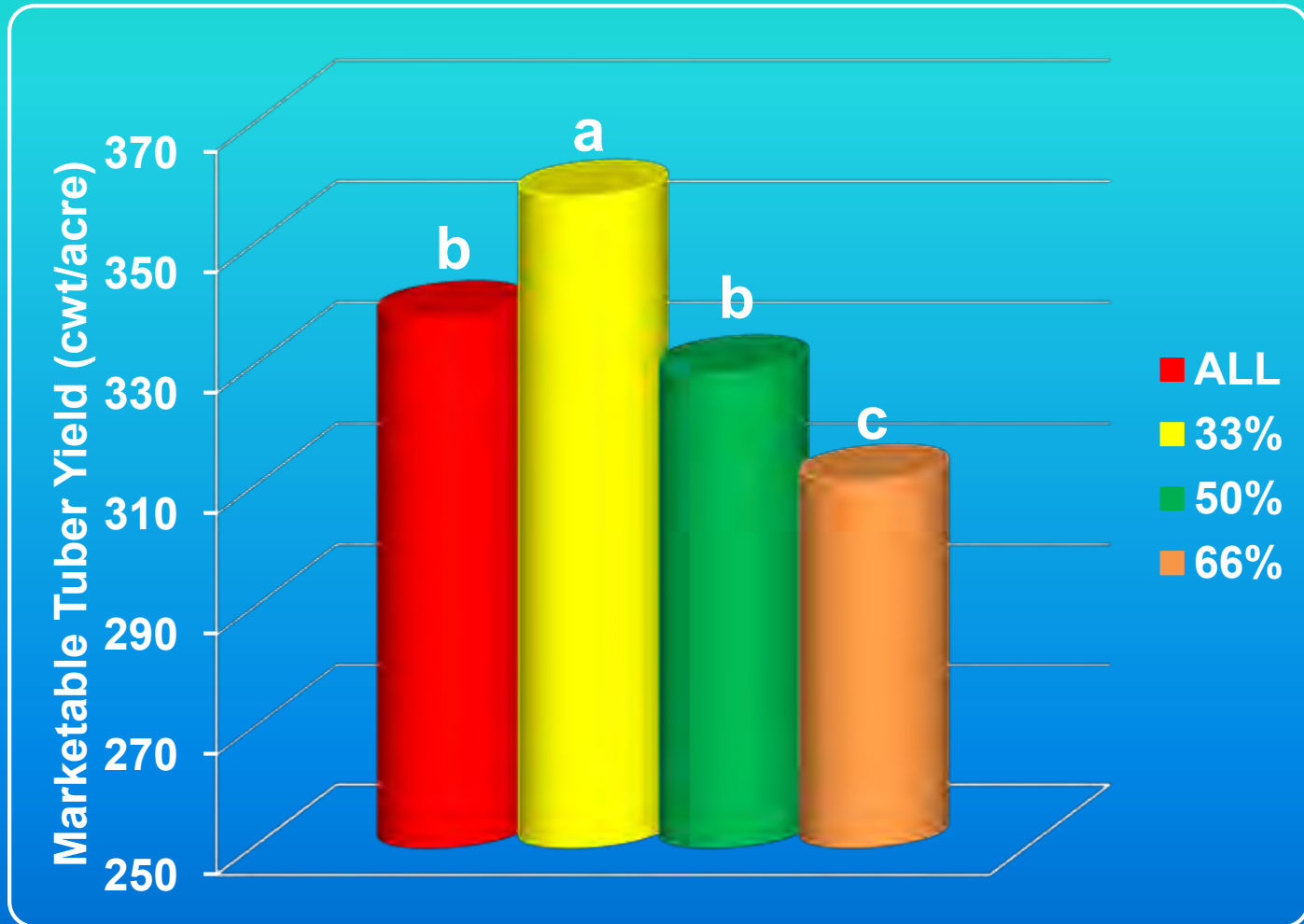
TREATMENTS

- 1. All Applied Pre-plant (All)**
- 2. 66% Applied Pre-plant (66%)**
- 3. 50% Applied Pre-plant (50%)**
- 4. 33% Applied Pre-plant (33%)**

Effect of Pre-Plant Nitrogen Application Rate On Total Tuber Yield of Fortress Russet



Effect of Pre-Plant Nitrogen Application Rate on Marketable Tuber Yield of Fortress Russet

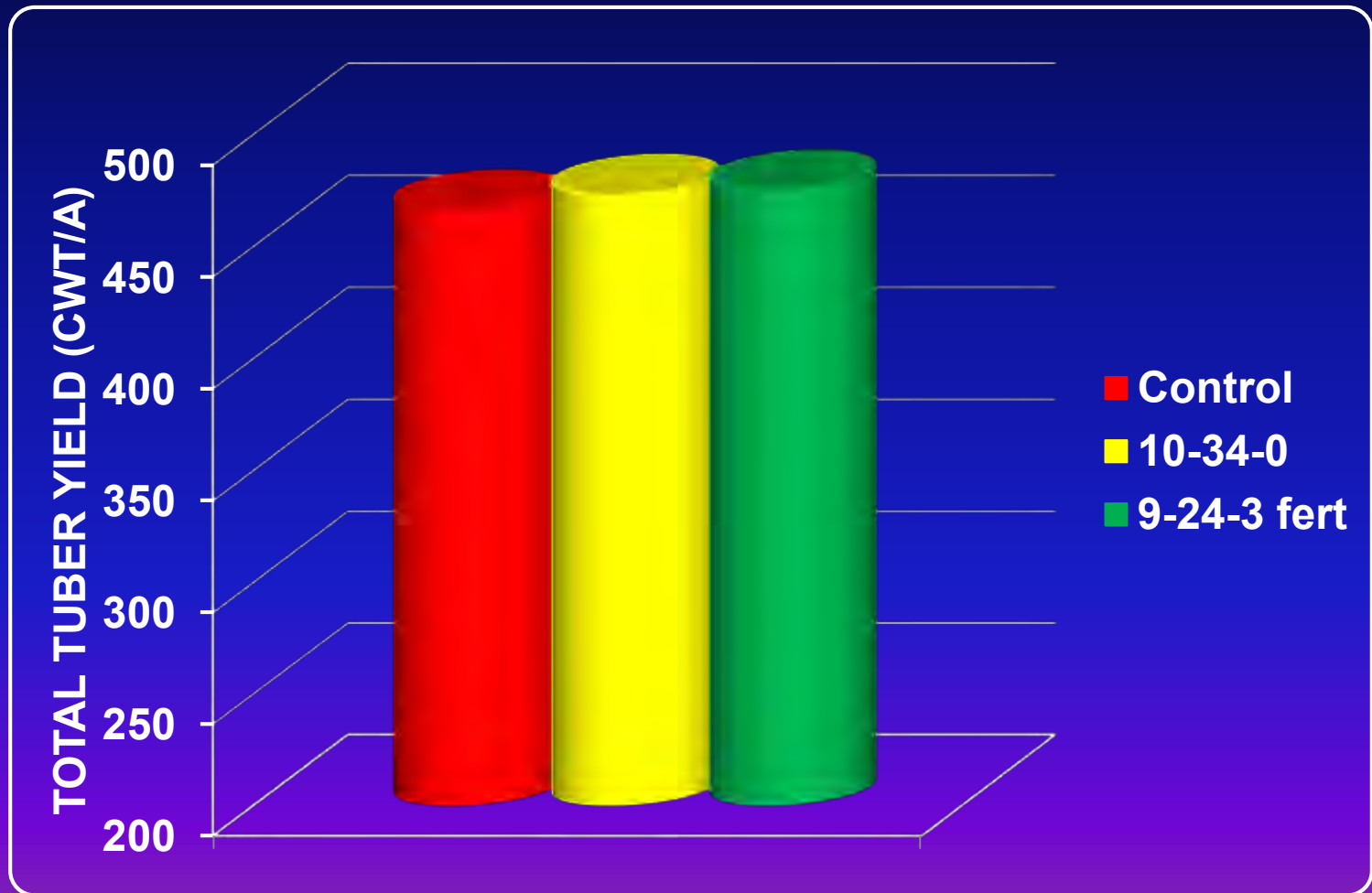


RESPONSE OF FORTRESS RUSSET TO PHOSPHORUS FERTILIZER SOURCE

 10-34-0

 9-24-3

EFFECT OF PHOSPHORUS FERTILIZER SOURCE ON TOTAL TUBER YIELD OF FORTRESS RUSSET



EFFECT OF PHOSPHORUS FERTILIZER SOURCE ON MARKETABLE (> 4 oz.) TUBER YIELD OF FORTRESS RUSSET

