Response of AC05039-2RU to Nitrogen Application Rate

Residual Soil Nitrogen: 50 lb. N/Ac.
Response of AC05039-2RU to Nitrogen Application Rate: Canopy Development
Response of AC05039-2RU to Nitrogen Application Rate: Tuber Bulking
Response of AC05039-2RU to Nitrogen Application Rate: Agronomic Yield
Response of AC05039-2RU to Nitrogen Application Rate: Economic Yield

**Fig A:**
- N = $295.00/ton
- Other Input = $1,500.00/A
- Potato Price = $9.75/cwt

**Fig B:**
- N = $590.00/ton
- Other Input = $1,500.00/A
- Potato Price = $9.75/cwt

**Fig C:**
- N = $590.00/ton
- Other Input = $1,500/A
- Potato Price = $7.00/cwt
Response of AC05039-2RU to Nitrogen Application Rate: Tuber Specific Gravity
Response of CO05068-1RU to Nitrogen Application Timing: Pre-Plant Nitrogen Application
Total N Rate Applied: 150 lb. N/Acre

TREATMENTS

1. In-Season Application (no pre-plant)
2. All Applied Pre-plant
3. 66% Applied Pre-plant
4. 50% Applied Pre-plant
5. 33% Applied Pre-plant
Effect of Nitrogen Application Timing on Canopy Development of CO05068-1RU

![Graph showing the effect of nitrogen application timing on canopy development (LAI) over days after planting. The graph compares different application methods: In-Season, All Pre-, 33% Pre-, 50% Pre-, 66% Pre-. The x-axis represents days after planting (96, 103, 116), and the y-axis represents canopy development (LAI) ranging from 0 to 7. Each method has a distinct line indicating its progression over time.]
Effect of Nitrogen Application Timing on Tuber Bulking of CO05068-1RU
Effect of Nitrogen Application Timing on Total Tuber Yield of CO05068-1RU
Effect of Nitrogen Application Timing on > 4 oz. Tuber Yield of CO05068-1RU

![Bar chart showing the effect of nitrogen application timing on tuber yield.](image)
Effect of Nitrogen Application Timing on Premium (> 10 oz.) Tuber Yield of CO05068-1RU

![Bar graph showing the effect of nitrogen application timing on premium tuber yield. The graph compares In-Season, All Pre-, 66% Pre-, 50% Pre-, and 33% Pre- treatments. The highest yield is observed in the 50% Pre- treatment, followed by the 66% Pre- treatment. The In-Season treatment yields the lowest among the compared treatments.](image-url)
Response of CO05068-1RU to Nitrogen Application Timing: Tuber Specific Gravity
This cultivar is a heavy N feeder. Will need 240 lb N/A for maximum economic yield.

Apply 33% of required N pre-plant or at planting and the remaining N applied in-season for maximum total and marketable tuber yield.

For maximum premium size (>10 oz.) tuber yield, apply 50% to 60% of required N pre-plant or at planting.
SUMMARY

AC05039-2RU

✔ Will need 180 lb N/A applied for maximum economic yield

✔ Not economical to grow this cultivar if potato price is $7.00 or less/cwt.