

PLANT NUTRIENTS

AdvanSix Sulf-N® Ammonium Sulfate

Potato Fertility Requirements and Recommendations: Nitrogen

Objective

Evaluate potato response to different nitrogen sources.

Method

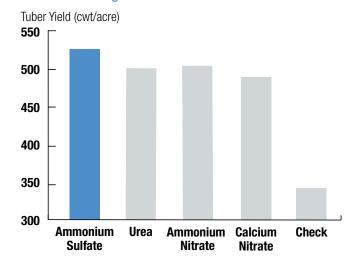
Nitrogen rate was 200 pounds per acre, half-banded at emergence and half just prior to hilling. The field study was conducted at Hancock in 1976-1980.

Results

Effect of N Source on Potato Yields

| Nitrogen Source | 1976 | 1977 | 1978 | 1979 | 1980 | 5-year avg. |
|------------------|------------|------|------|------|------|-------------|
| | (cwt/acre) | | | | | |
| Ammonium Sulfate | 487 | 543 | 463 | 543 | 604 | 528 |
| Urea | 463 | 479 | 453 | 523 | 591 | 502 |
| Ammonium Nitrate | 453 | 494 | 502 | 501 | 572 | 504 |
| Calcium Nitrate | 448 | 499 | 452 | 505 | 547 | 490 |
| Check | 349 | 194 | 320 | 385 | 482 | 346 |

Sulf-N® Advantage



Source: P.E. Fixen and K.A. Kelling, Potato Fertility Requirements and Recommendations, University of Wisconsin-Madison

Conclusions

- Four out of five years ammonium sulfate ranked first in yield and averaged 26 cwt/acre above ammonium nitrate or urea and 38 cwt above calcium nitrate for the five-year period.
- Ammonium-N had the advantage of less leaching than nitrate-N.
- Ammonium sulfate supported a higher ammonium-N concentration throughout the season than the other sources, which resulted in better nitrogen utilization.

Contact AdvanSix

To learn more about the benefits of Sulf-N® Ammonium Sulfate, visit AdvanSix.com or SulfN.com or call: 1-844-890-8949 (toll free, U.S./Can.) +1-973-526-1800 (international)

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