

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.

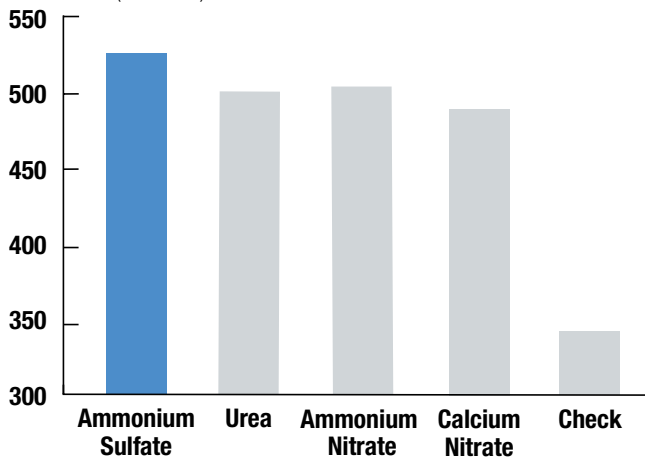
Results

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

Tuber Yield (cwt/acre)



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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September 2019-6. Printed in U.S.A.
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