

Case Study: Reduced Ammonia Volatilization with SGI Metabasalt

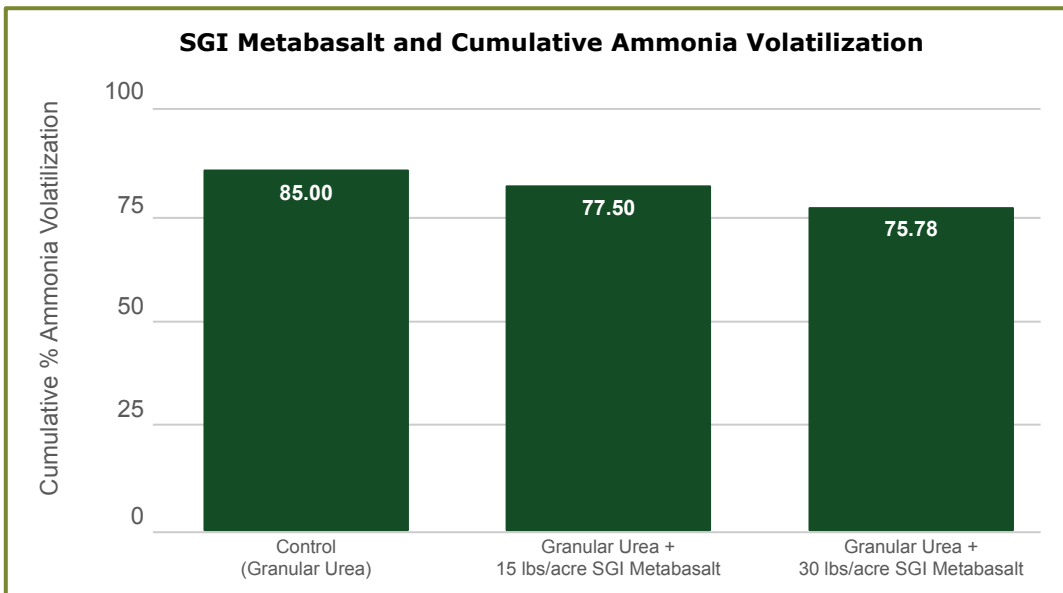
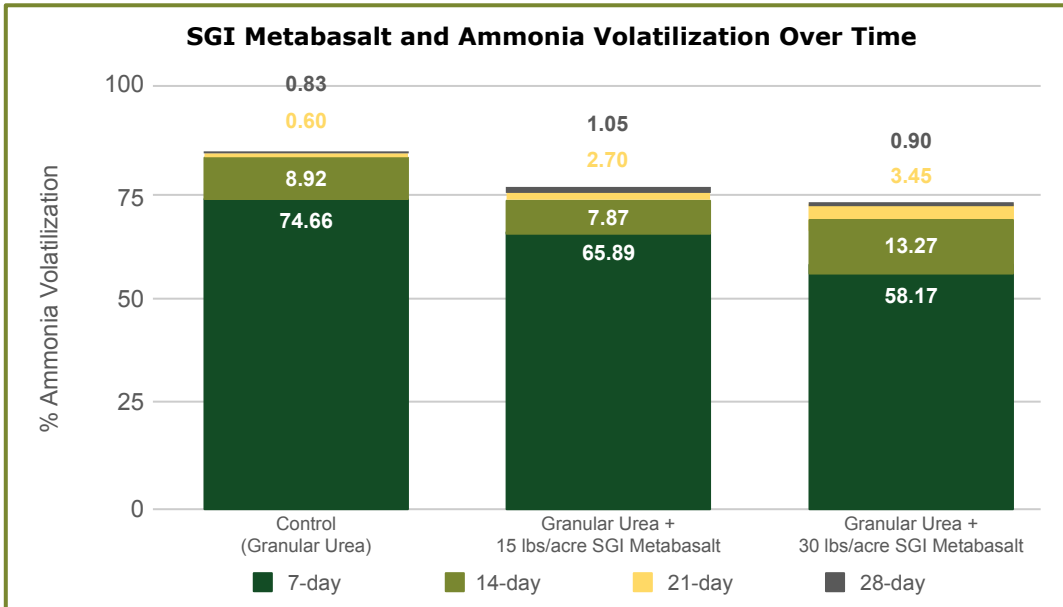


About The Study

Applied Chemical Technology based in Florence, AL, tested the effects of SGI Metabasalt from the Charmian Plant in Blue Ridge Summit, PA, on ammonia volatilization at the rate of 15 and 30 lbs/acre applied to granular urea fertilizer. The study was conducted on a closed loop system containing soil, and the amount of ammonia volatilized was measured at specific time intervals up to 28 days compared with granular urea-only control.

Key Results

The addition of SGI Metabasalt at a rate of 15 and 30 lbs/acre showed an approximate 10% reduction in the amount of ammonia volatilized compared to granular urea. Contrastly, the granular urea-only control showed most of the urea was volatilized within one week of application. The addition of SG Metabasalt up to 30 lbs/acre prolonged and reduced the ammonia volatilization time, ensuring nutrient availability for plant uptake lasted for a longer period of time.



From the roof to the road to the dinner table, our rocks improve lives.