

Drought-Proof Your 2022 Fertilizer Budget

SWAT MAPS help farmers optimize crop inputs and profitability and are the foundation of all variable-rate fertilizer and seed applications by defining field variability.

With SWAT MAPS, we can reduce fertilizer by up to 30% and not reduce yield.

With dry conditions and high fertilizer prices, farmers need ways to minimize expenses while maximizing profitability for the 2022 growing season. SWAT MAPS management of soil nutrient levels and yield potential can help reduce your fertilizer budget by decreasing rates of product in zones where there will be high residual nutrient levels.

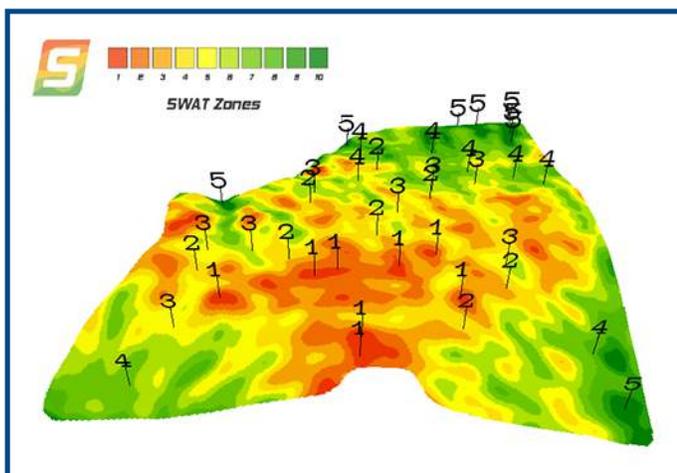


Figure 1: SWAT Zone Map with Sampling Locations

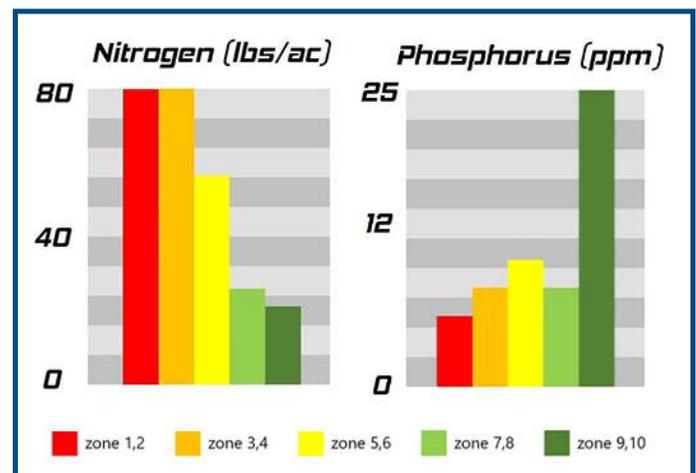


Figure 2: SWAT Zone Soil Tests (N & P)

Nitrogen (N)

After dry conditions, there will likely be excess N in the soil in zones 1-4 (knolls and shoulder slopes). Why? They are the lowest yielding zones (Figure 2). Therefore, we can cut N in zones 1-4 and save expensive fertilizer while not sacrifice yield.

Phosphorus (P)

Phosphorus typically shows high soil test levels with high organic matter (OM), thick topsoils, and in water collecting areas (zones 7-10; see Figure 2). Only maintenance levels of P are required in high testing zones. This is a long-term trend. Therefore, we can cut P in zones 7-10 and save expensive fertilizer while not sacrificing yield.

Sulphur (S)

S typically tests very high in zone 7-10 (high OM, thick topsoil, water collecting; Figure 3). Long-term trends show fields will have very low response to applications of S in these zones. We can reduce rates of S in these zones that will not respond to it. Figure 4 shows a zero S check strip trial we did at the CropPro Smart Farm, demonstrating the lack of canola yield response to S fertilizer in zones 7-10.

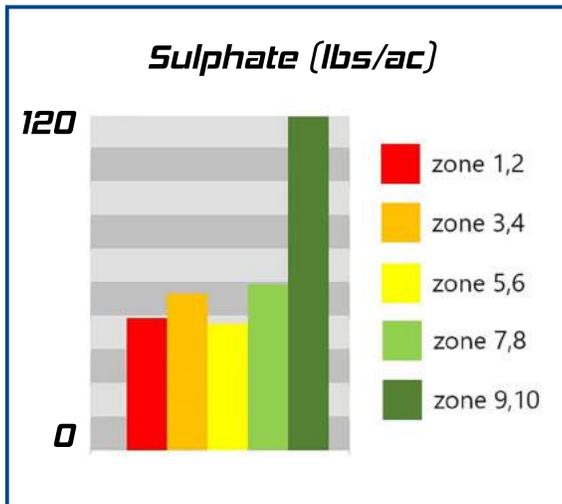


Figure 3: SWAT Zone Soil Tests (S)

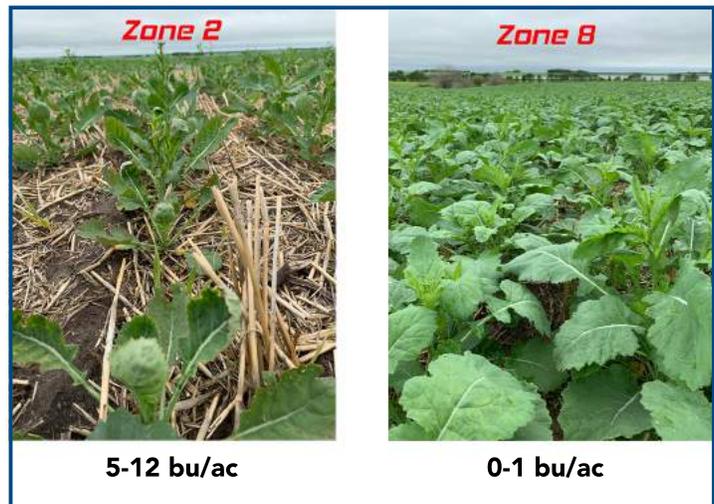


Figure 4: Zero S Check Strip Trial

Yield Potential

We can match fertilizer rates to yield potential by SWAT zones. How? Using SWAT MAPS, we can reduce fertilizer in the dry zones that will not respond to it. This could result in cutting back up to 30% of your fertilizer budget for the farm in 2022! By SWAT mapping and zone soil testing your fields, we can apply these strategies to your spring fertility plan to reduce your fertilizer spend while still maximizing yield potential in 2022.

With SWAT MAPS, we can reduce fertilizer in dry zones that will not respond to it, which can result in up to a 30% reduction of your fertilizer budget!

Amortized Pricing: Full-Farm Mapping Clients

Years 1-3: \$5.76 - \$6.82/ac*

Years 4 and following: \$3.53 - \$4.17/ac*

*Pricing based on total mapping acreage.
If you request double depth sampling, add \$0.75/ac.

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