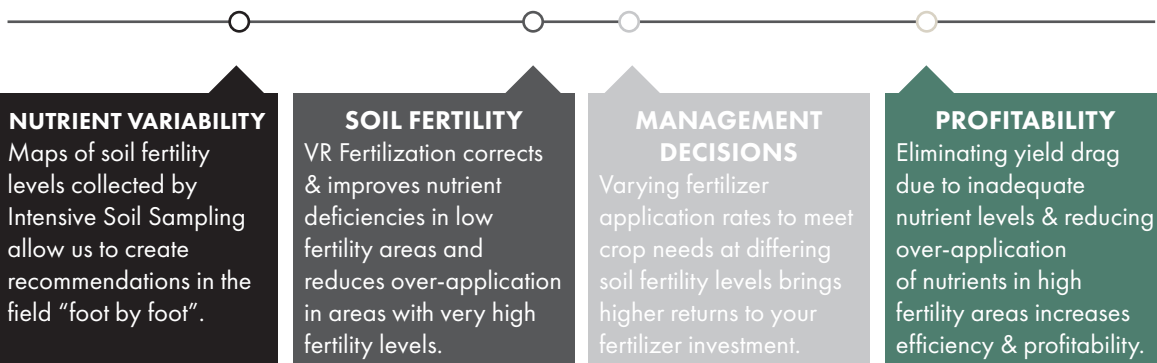


VARIABLE RATE FERTILIZATION

Central Valley Ag's ACS team can bring you many advantages with Variable Rate Fertilization. The average yield advantage for VR Fertilized Soybeans is 5.9 bu/acre and the yield advantage for VR Fertilized Corn is 18 bu/acre. Over a six year period soil fertility improvements were documented. Phosphorus ratings went from 70.2% to 53.2% of the field being rated below optimum and Phosphorus ratings of VL went from 21.8% down to 1.6% of the field. Another benefit is the efficiency of application. With non VR applications, 40% of the average field is under-fertilized, resulting in yield loss. At the same time, 36% of the average field is over-fertilized, wasting nutrients and dollars. Avoiding over-fertilization in areas of very high fertility results in a lower risk of losing nutrients into streams and reservoirs. Matching fertilization rates to crop needs at varying fertility levels reduces fertilizer cost per bushel, increasing the return to seed, fertilizer, crop protection, irrigation, land and management.

THERE ARE MANY THINGS TO CONSIDER WHEN IT COMES TO VARIABLE RATE FERTILIZATION



Price of Corn \$3.25

*** Average Yield Increase
18/bu corn/A and 6 bu
soybeans/A**

**- Avg. Cost of Sampling,
additional fertilizer &
application. \$17.50/A**

= Profit \$37.75/A/yr average

**Annual ROI to Grid Sampling
and VR Fertilization 3:1**

DID YOU KNOW?

- 41% of the average field is under-fertilized with flat rate application.
- 36% of the average field is over-fertilized with flat rate application.
- On average, yields are reduced by 9% when Phosphorus levels are less than optimum if this deficiency is not addressed.
- CVA makes VR fertilizer and Lime applications on more than 350,000 acres annually.
- CVA has more than 50 VR capable application machines, with both multi-product and single product capabilities. CVA is committed to Site-Specific fertilization.
- Average yield advantage for VR fertilized Soybeans is 5.9 bu/acre.
- Average yield advantage for VR fertilized Corn is 18 bu/acre.
- The average change in fertilizer investment with VR fertilization is approx. + \$13/acre/year.

