

Can I skip a year of P application ?

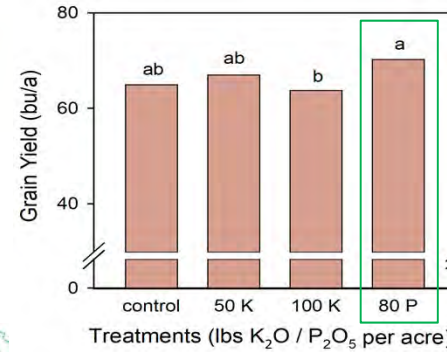
Removal	
Crop	P ₂ O ₅ (lb)/bu
Corn	0.33
Grain Sorghum	0.40
Wheat	0.50
Soybeans	0.80

Assuming ~18 lbs of P₂O₅ = change 1 ppm soil test P

200 bu corn = 66 lbs of P₂O₅ = change ~3.5 ppm STP

Soil test every 2-4 years !

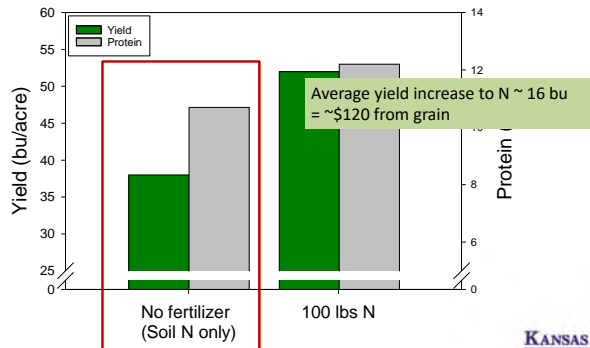
Potassium fertilization in high soil testing K – soybean



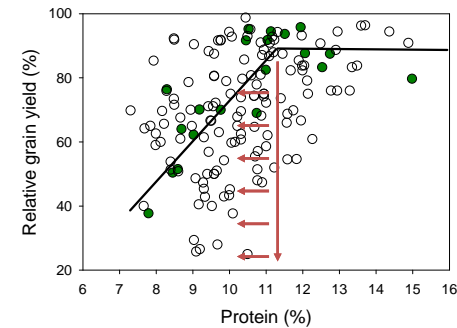
Soil test K =364 ppm
K tissue test @ V4: >1.6%
 Critical Soil test K value =130 ppm



Wheat nitrogen deficiency: effect on yield and protein (average of 21 sites in Kansas)



Grain protein content as an indicator of N sufficiency



- 21 trials (2019-2020)
- 134 trials (last ~15 years)