



Trial 1
**P response in corn
using DAP and TSP**

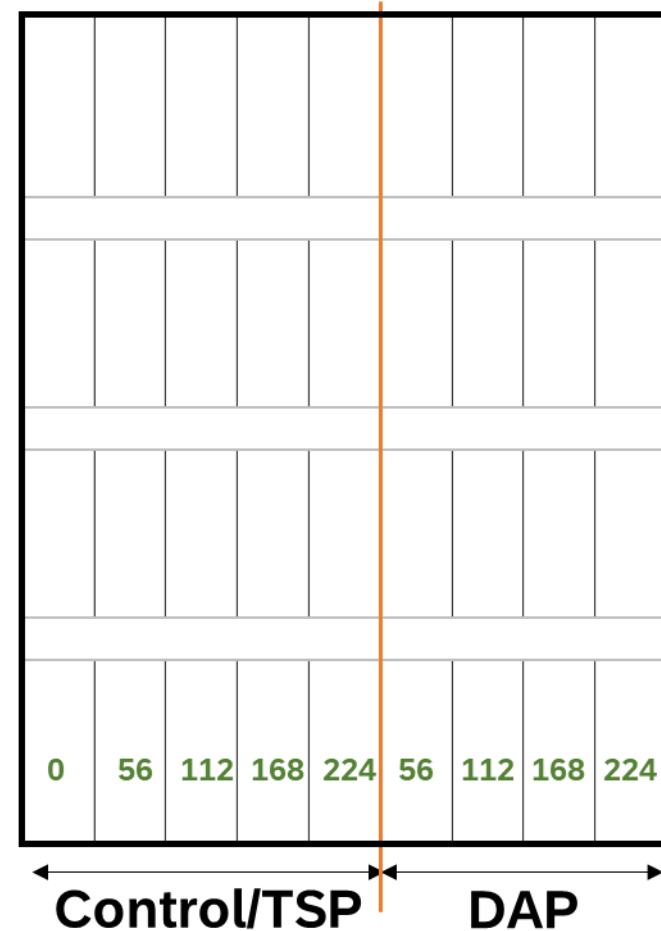
Trial 2
**P response in
soybean using DAP
and TSP**

Trial 3
**P and K response in
Soybean following
cover crop**

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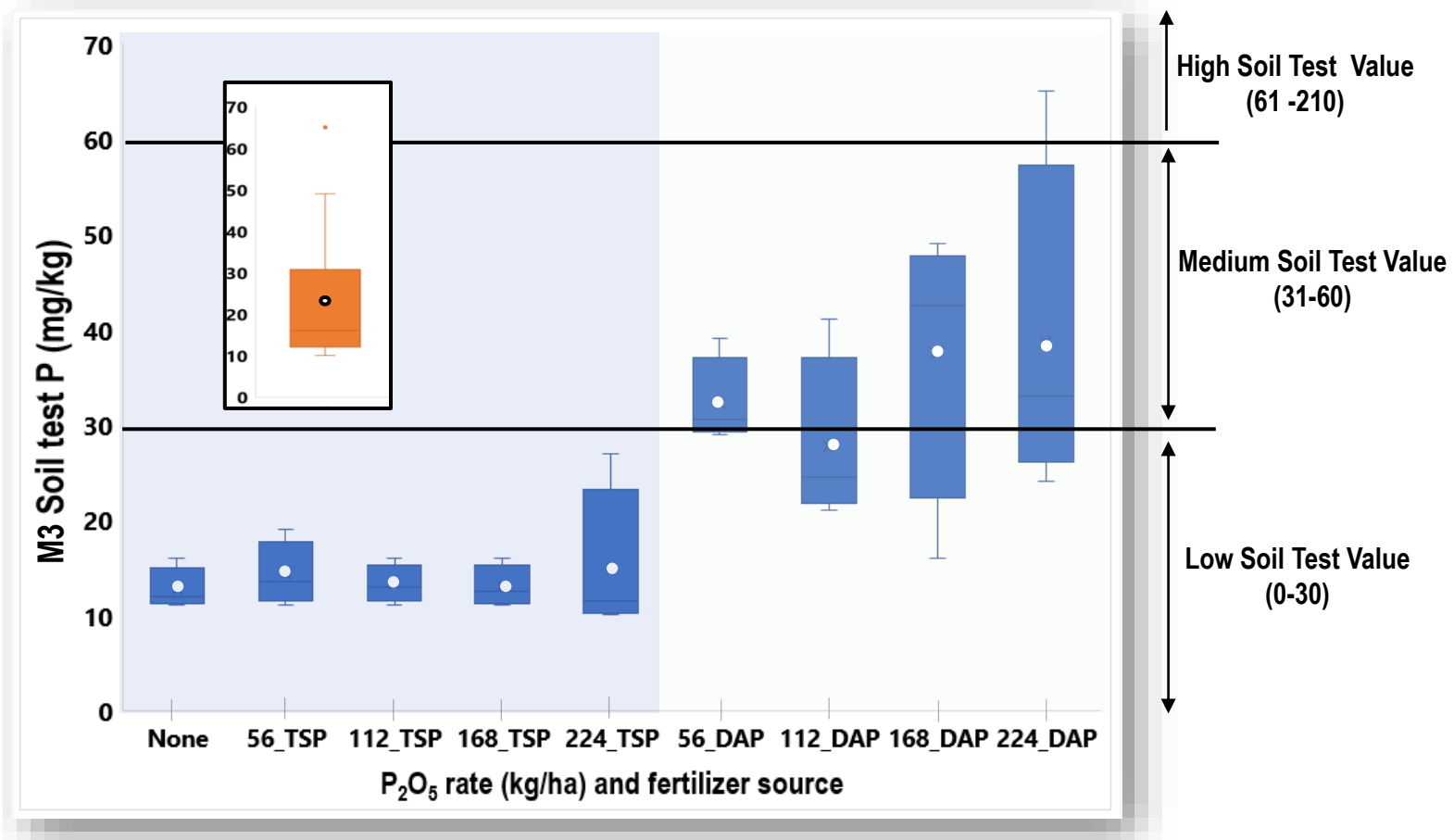
Materials and Methods – Trial 1

- Jackson, TN
- Split plot, 4 reps
- Corn
- 2 P sources (DAP vs TSP)
- 4 P₂O₅ rates (56, 112, 168, 224 kg/ha)
- Control

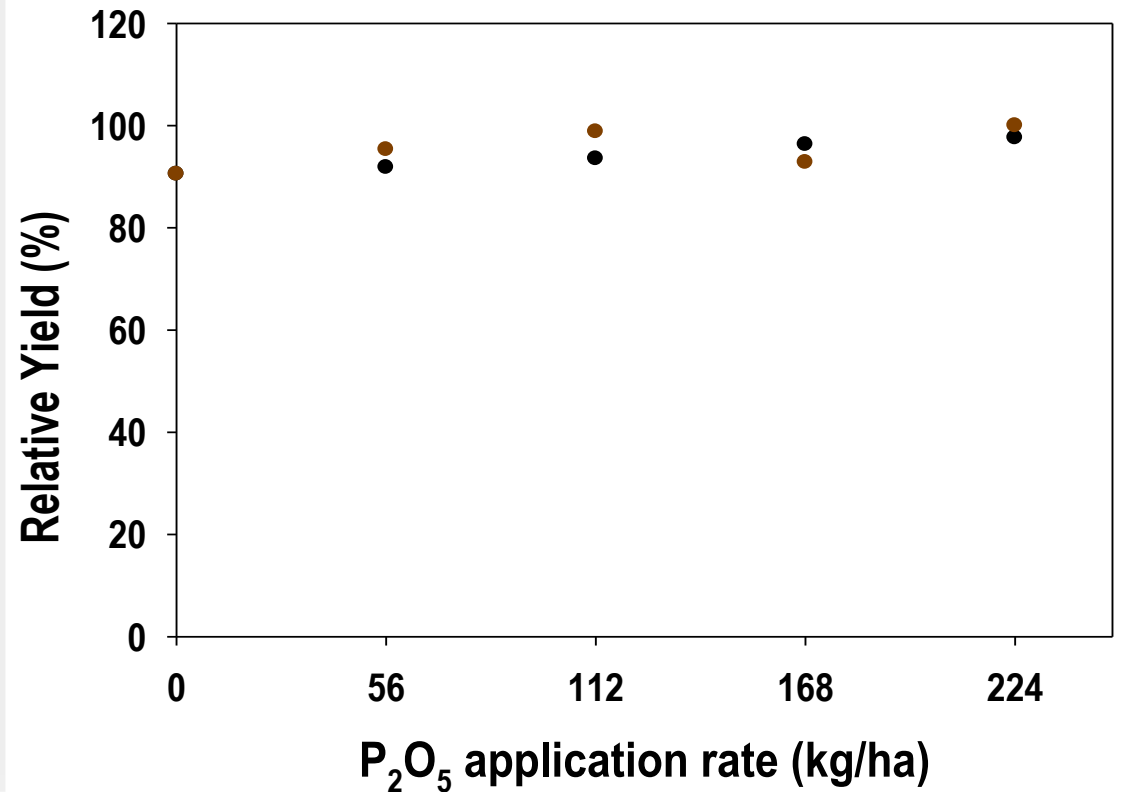
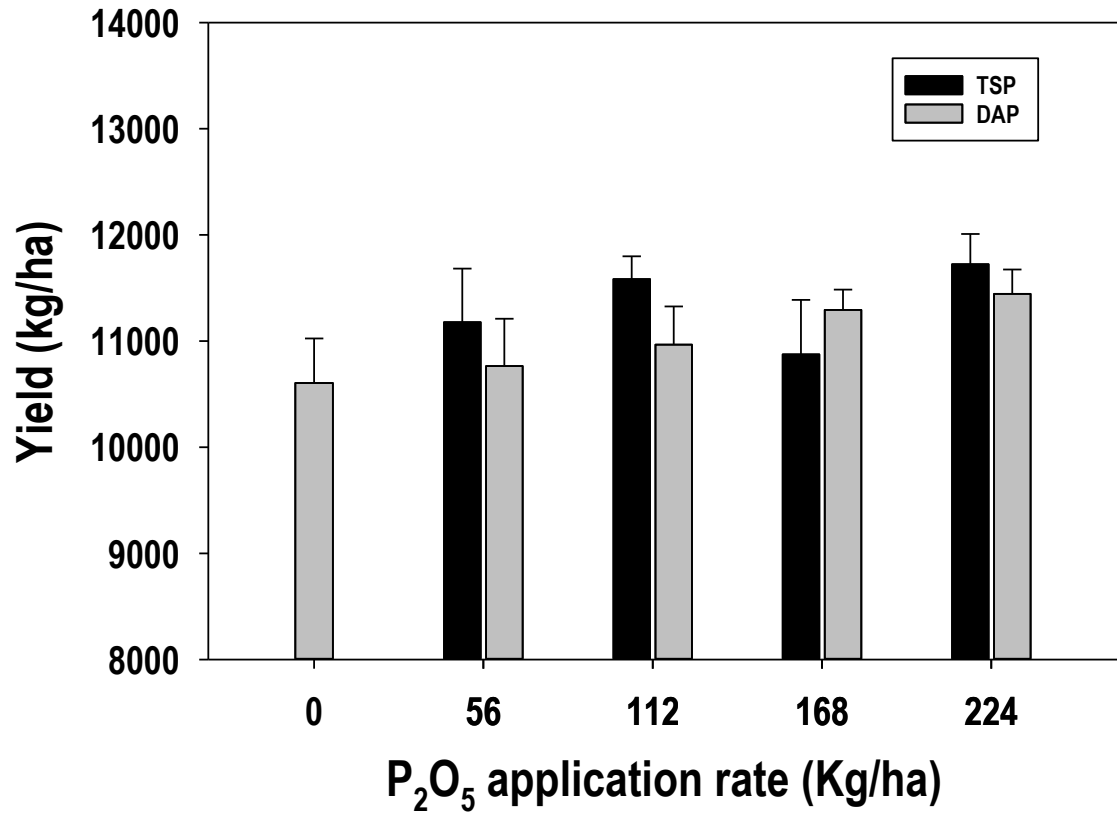


Results - Mehlich 3 soil test P

Lexington silt loam

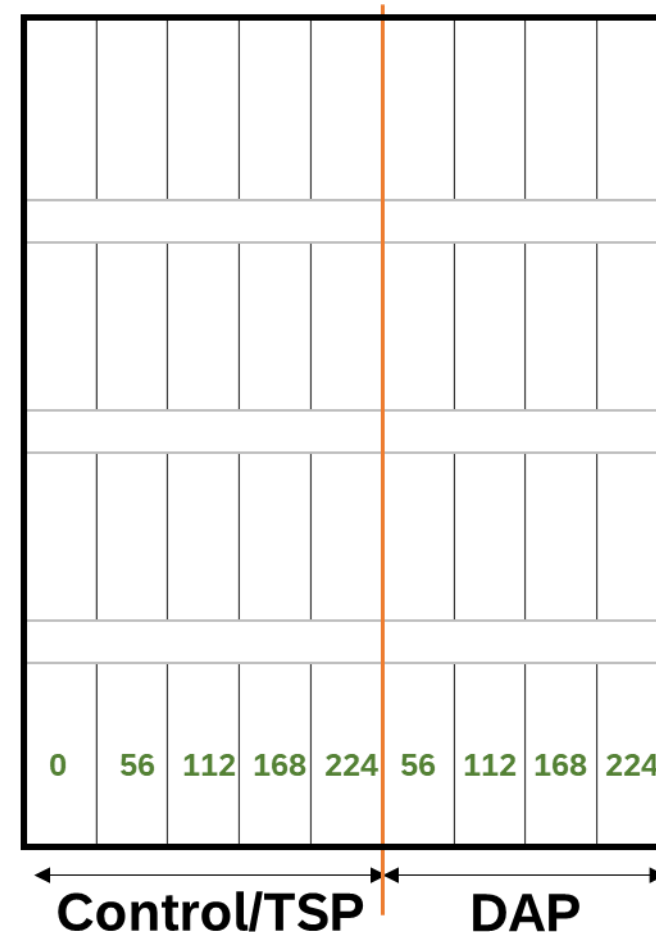


Results - Yield



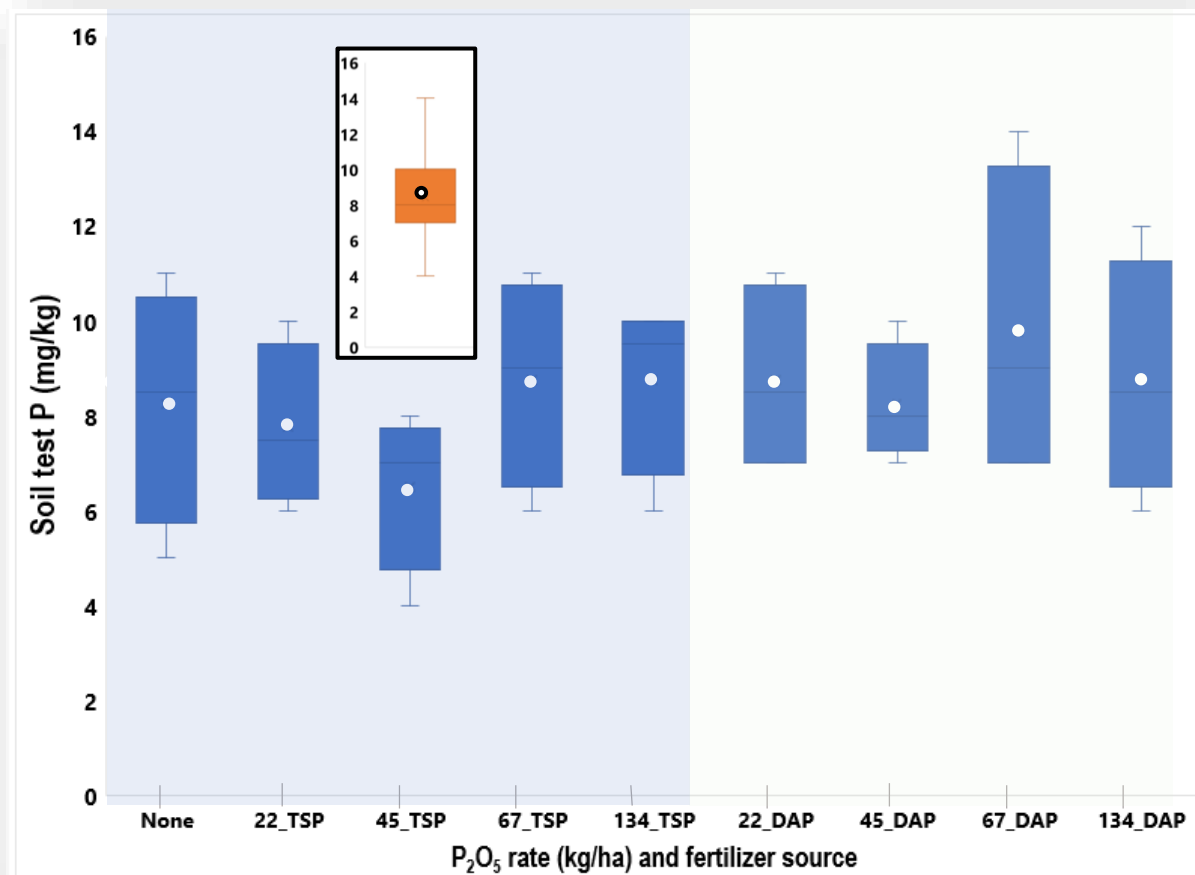
Materials and Methods – Trial 2

- Grand Junction, TN
- Split plot, 4 reps
- Soybean
- 2 P sources (DAP vs TSP)
- 4 P₂O₅ rates (56, 112, 168, 224 kg/ha)
- Control



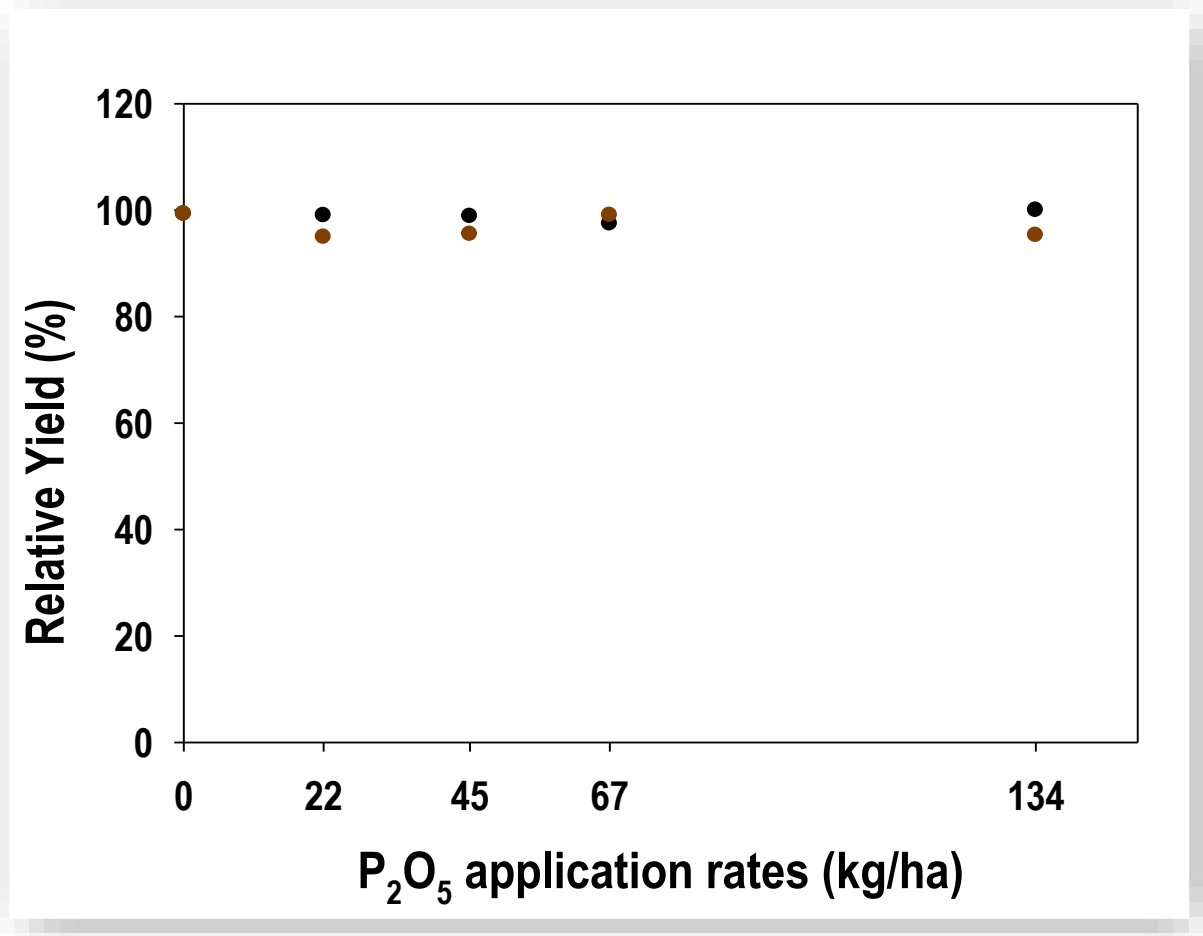
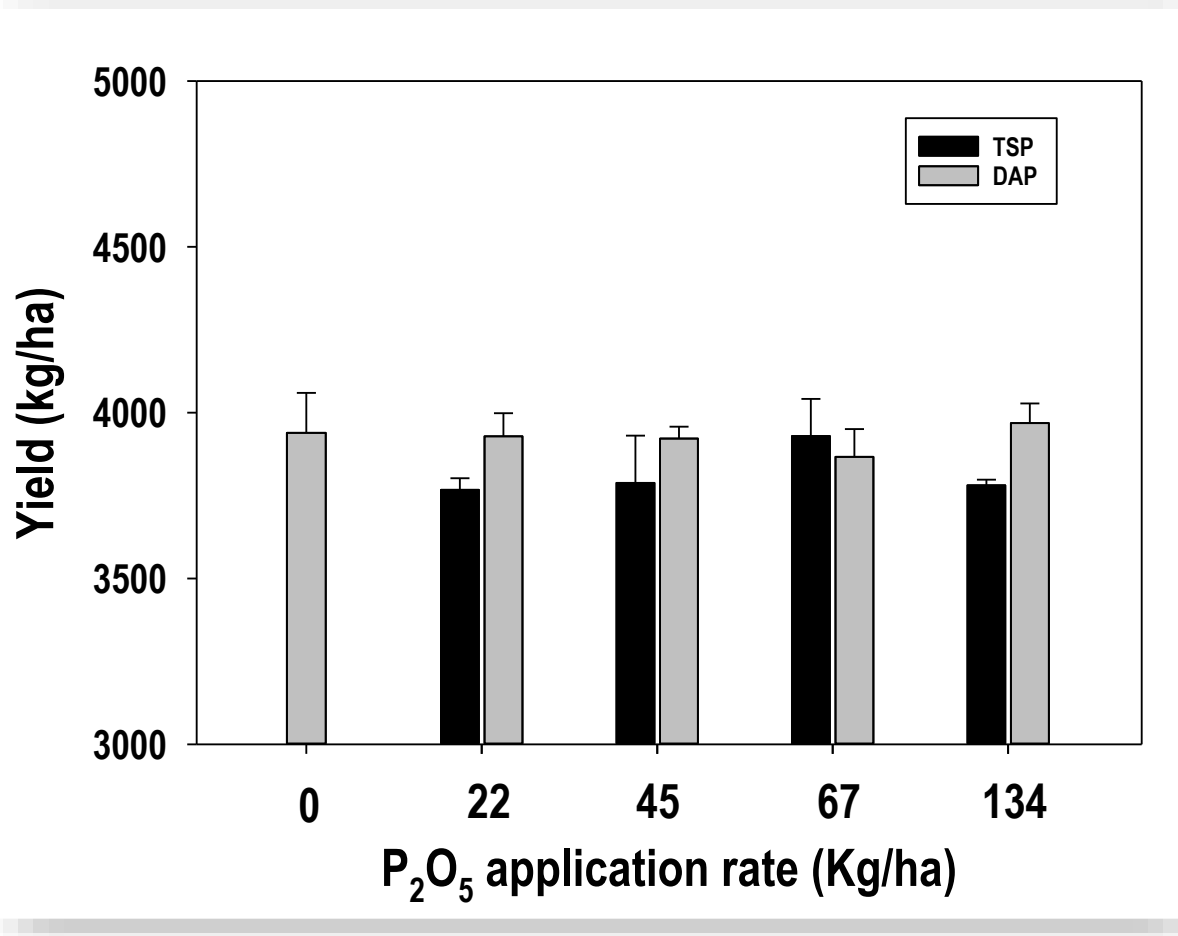
Results - Mehlich 3 soil test P

Grenada silt loam



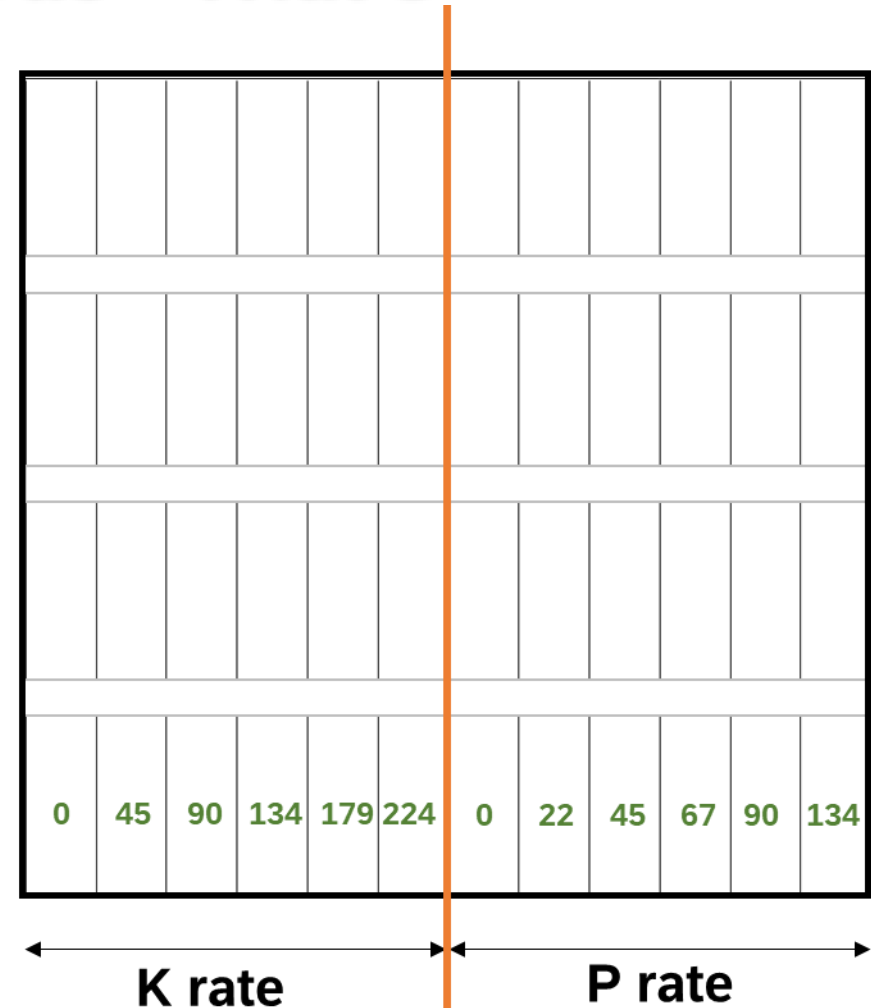
Low Soil Test Value
(0-30)

Results - Yield



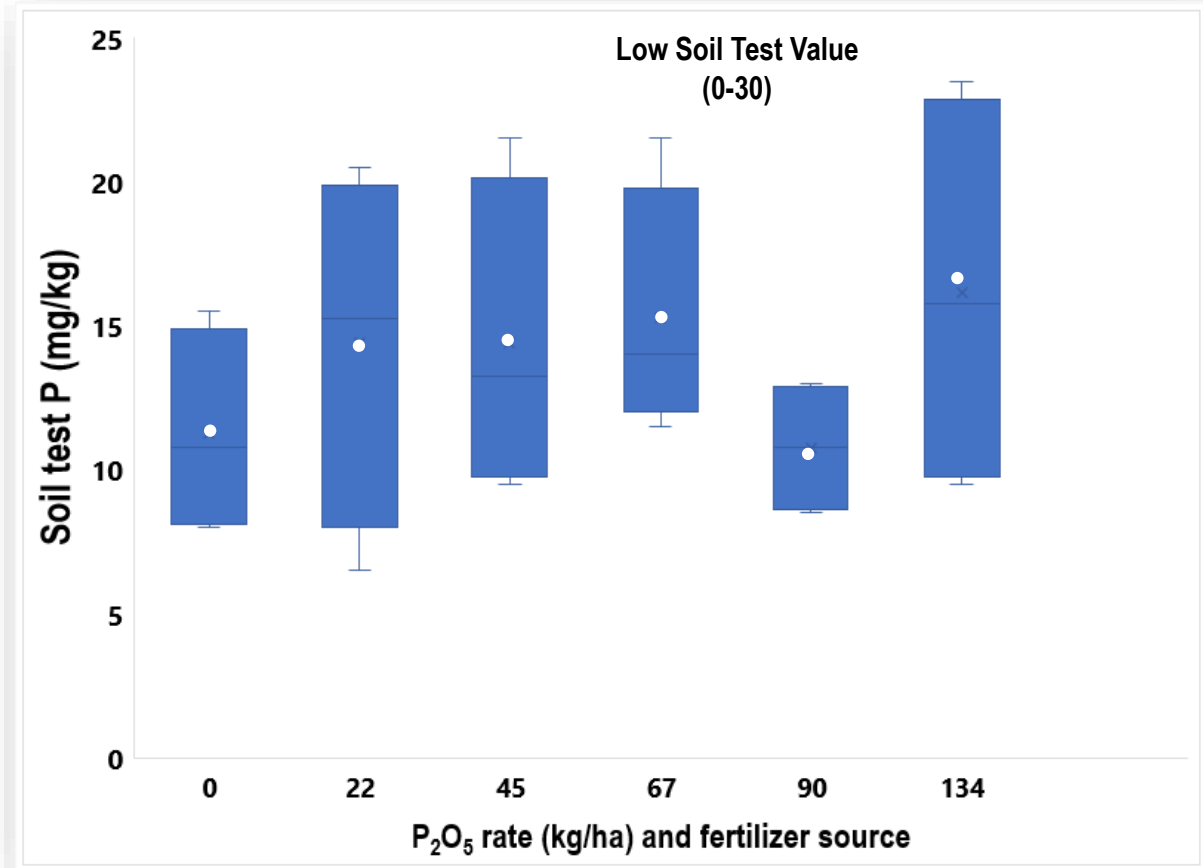
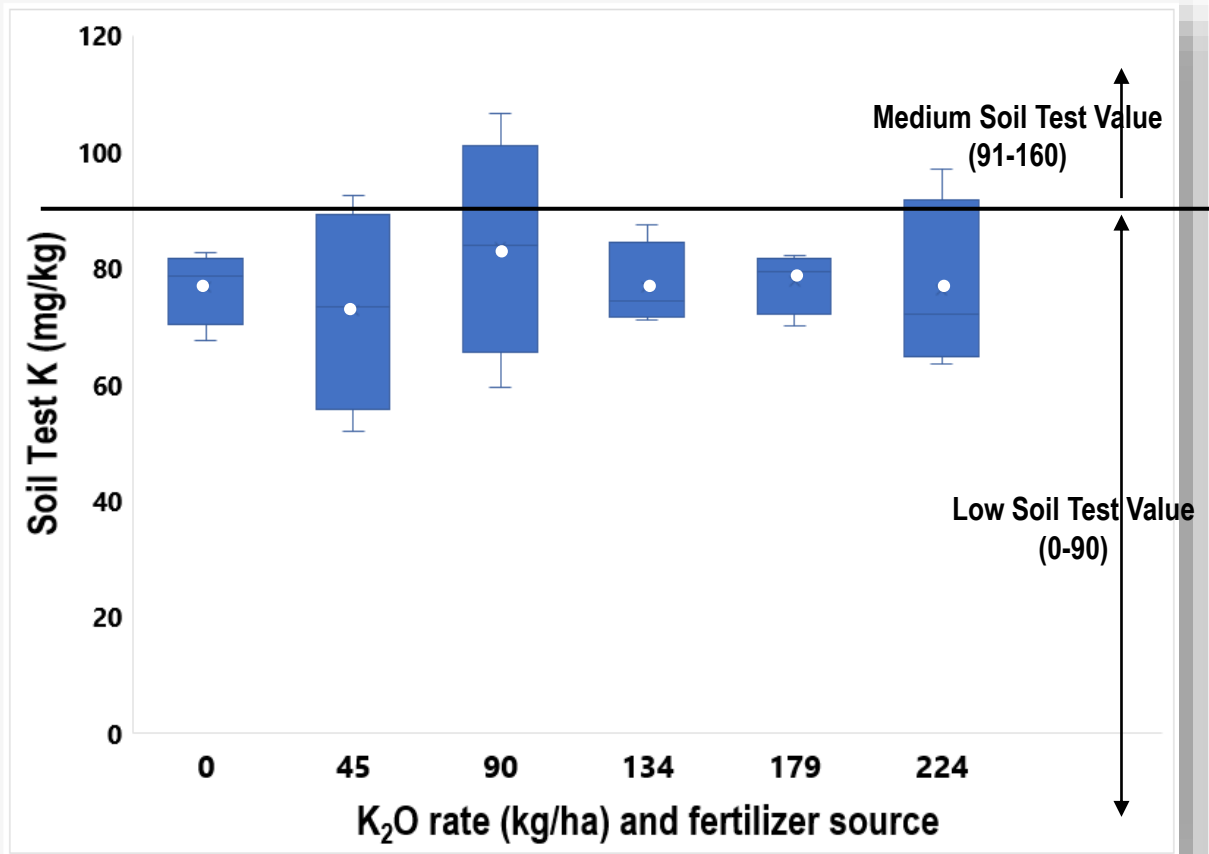
Materials and Methods - Trial 3

- Jackson, TN
- RCBD, 4 reps
- Soybean
- 6 K₂O rates (0, 45, 90, 134, 179, 224 kg/ha)
- 6 P₂O₅ rates (0, 22, 45, 67, 90, 134 kg/ha)



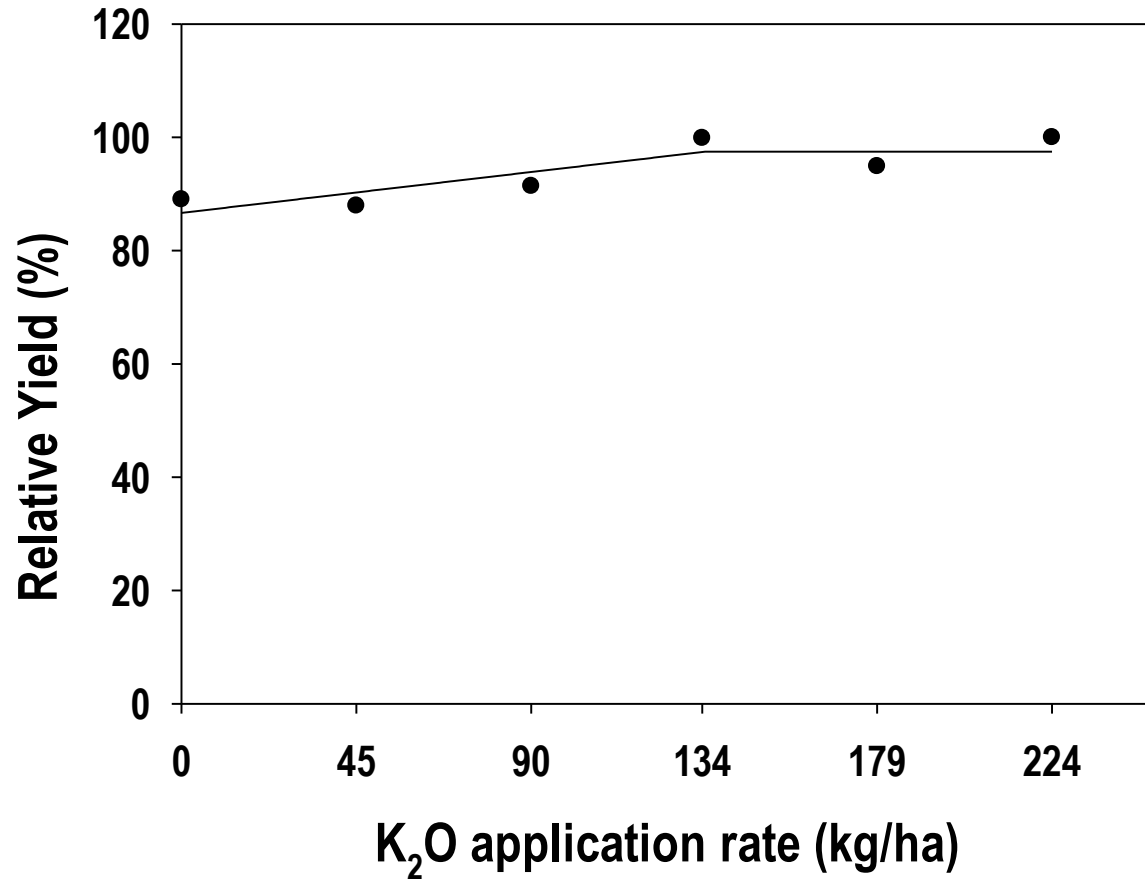
Result - Mehlich 3 soil test K and P

Collins silt loam

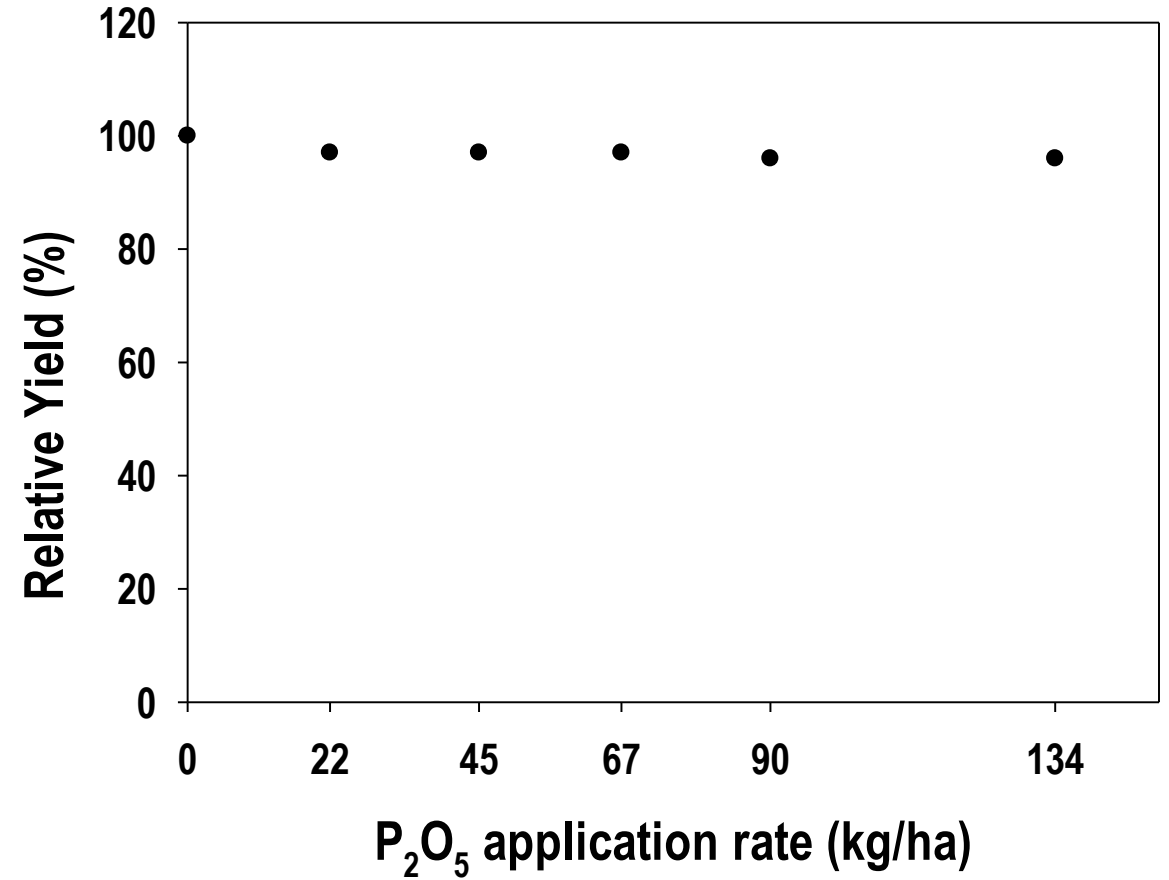


Results - Yield

Low Soil Test K



Low Soil Test P



Conclusion

- **Similar corn and soybean yield results regardless of whether DAP or TSP are used**
- **Current P recommendations for soybean is adequate while recommendations for K may need to be evaluated**

Acknowledgements



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Thank You!



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