

Late sowing wheat at high densities and the drivers of yield.

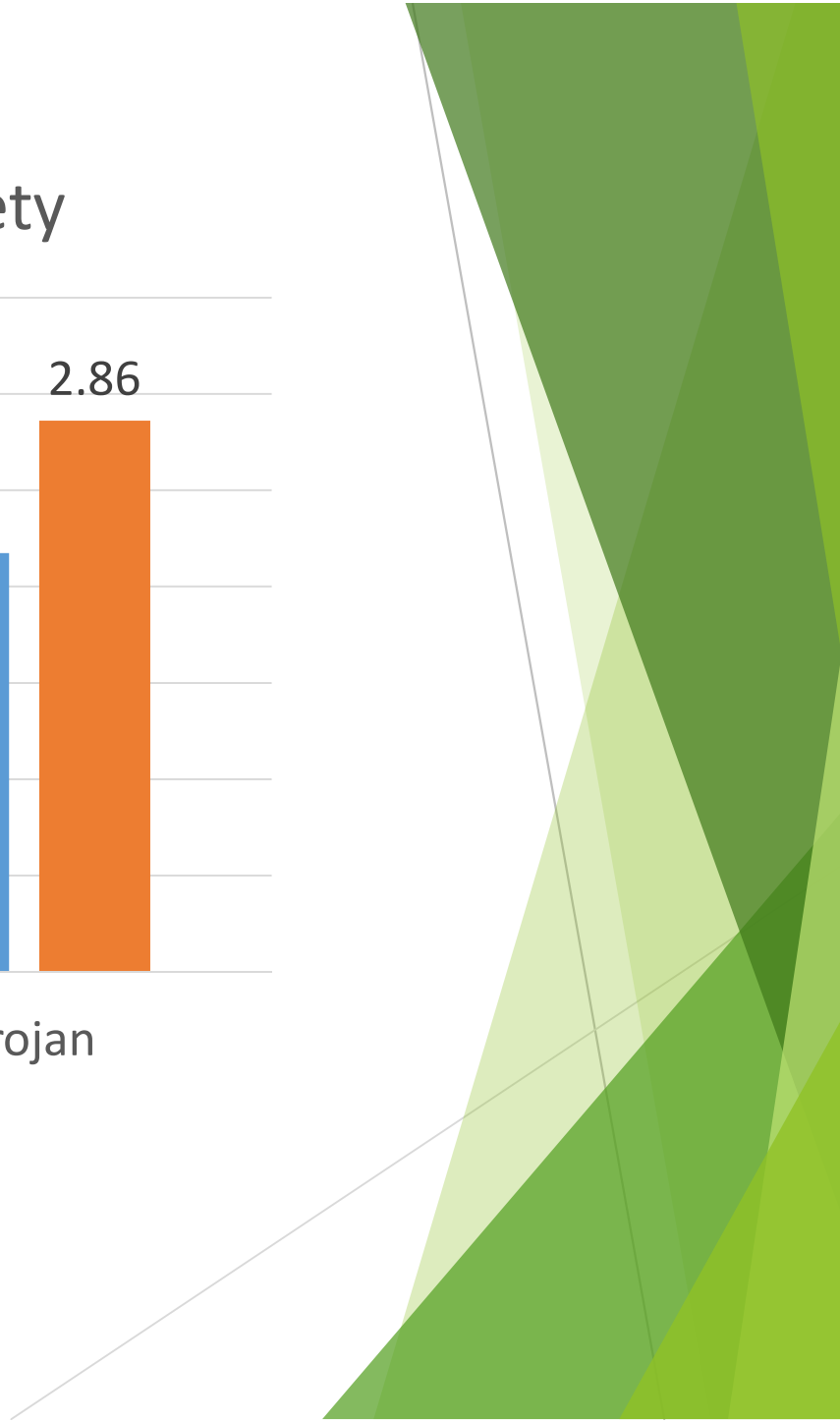
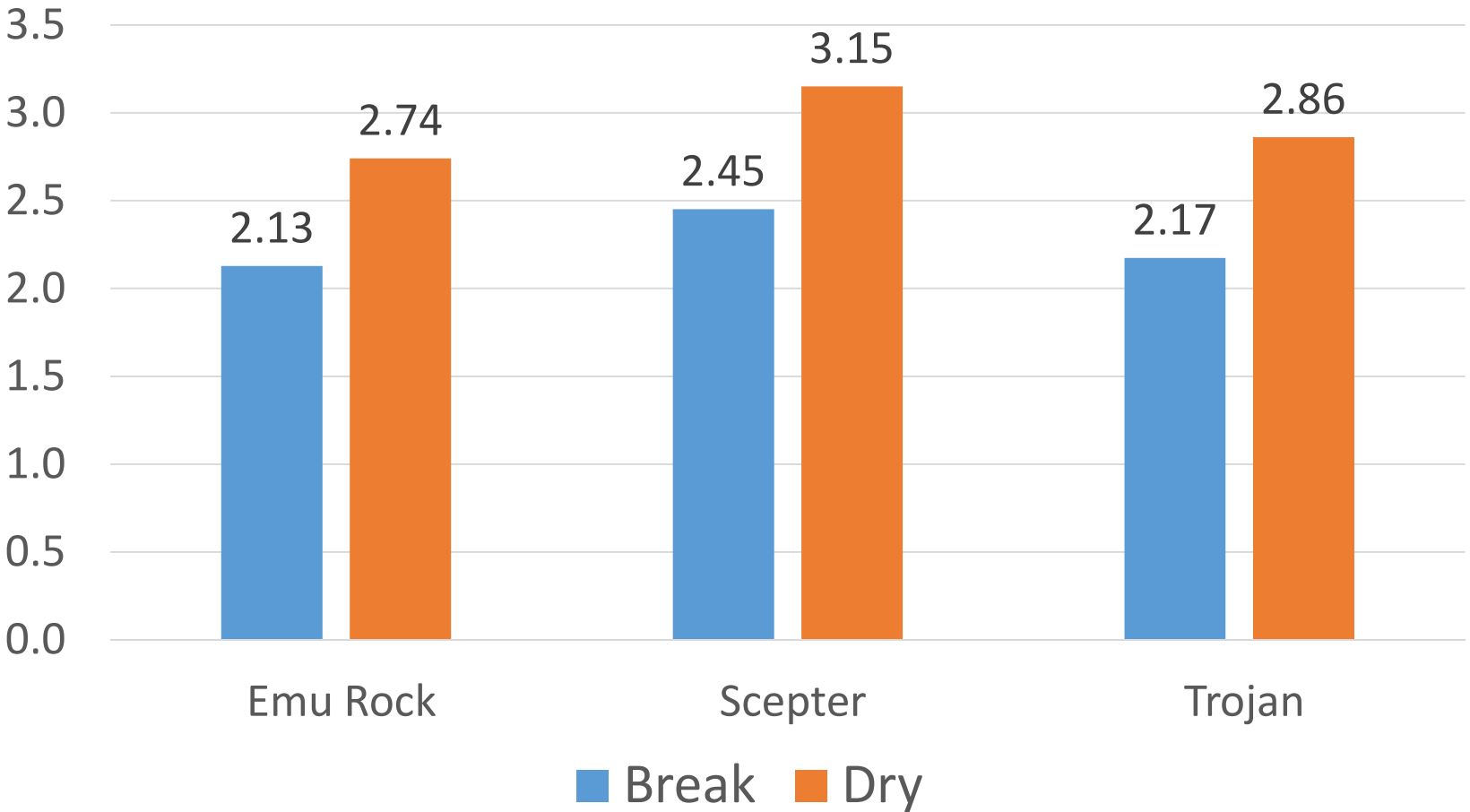
Jacob Giles, Andrew Ware, Ashley Flint, David Holmes

Key Points

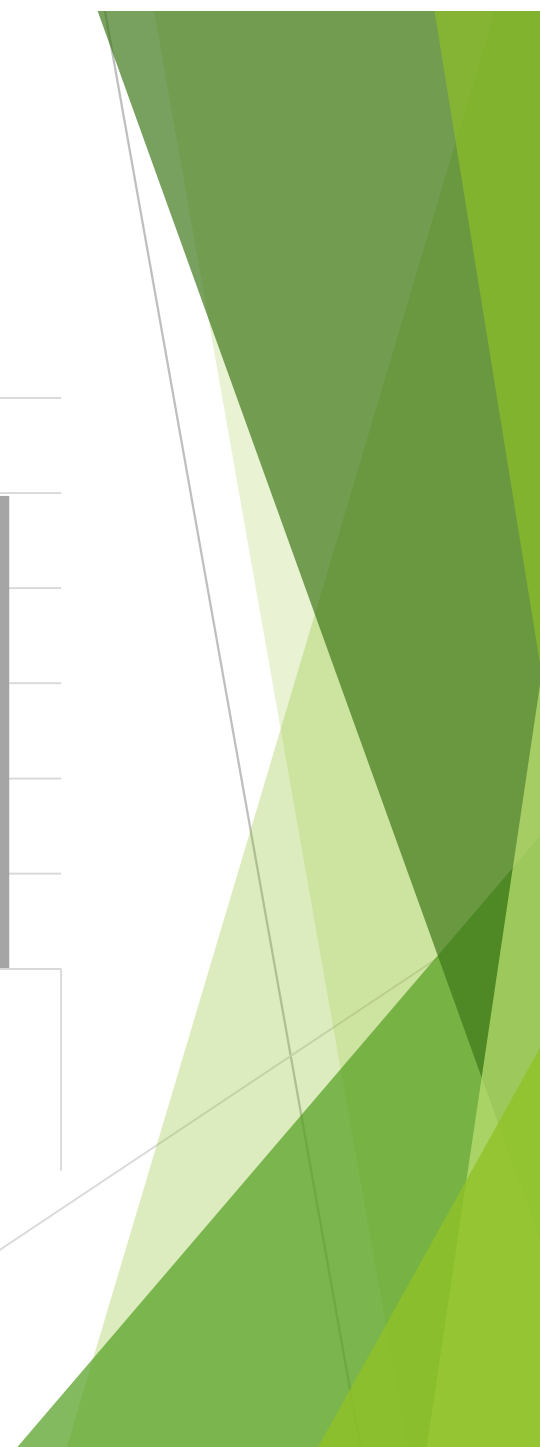
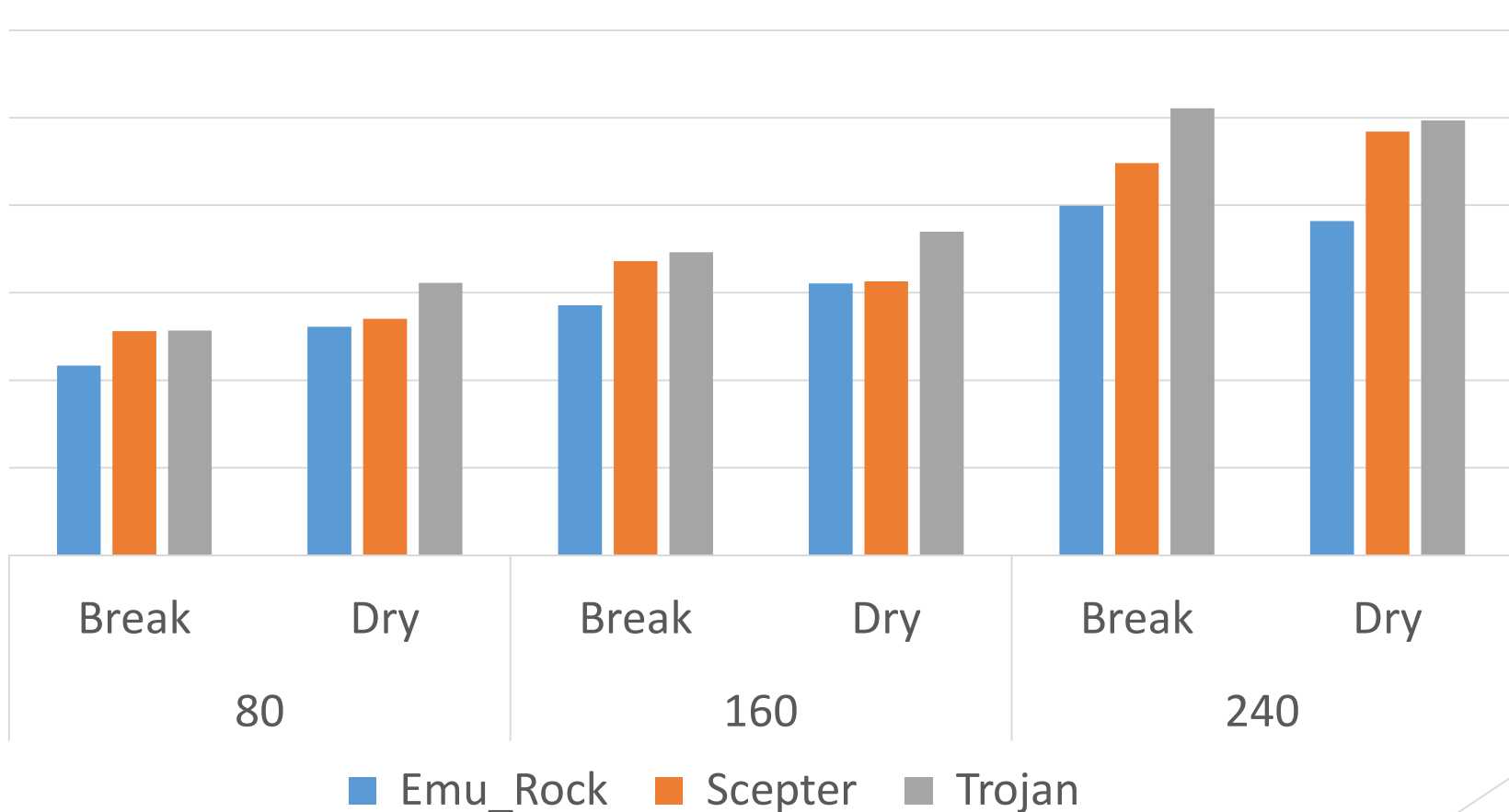
- ▶ No significant diff. sowing density or N treatment
- ▶ Significant yield differences determined by TOS and variety
- ▶ Yield is determined by grains /m² (as affected by TOS and variety)



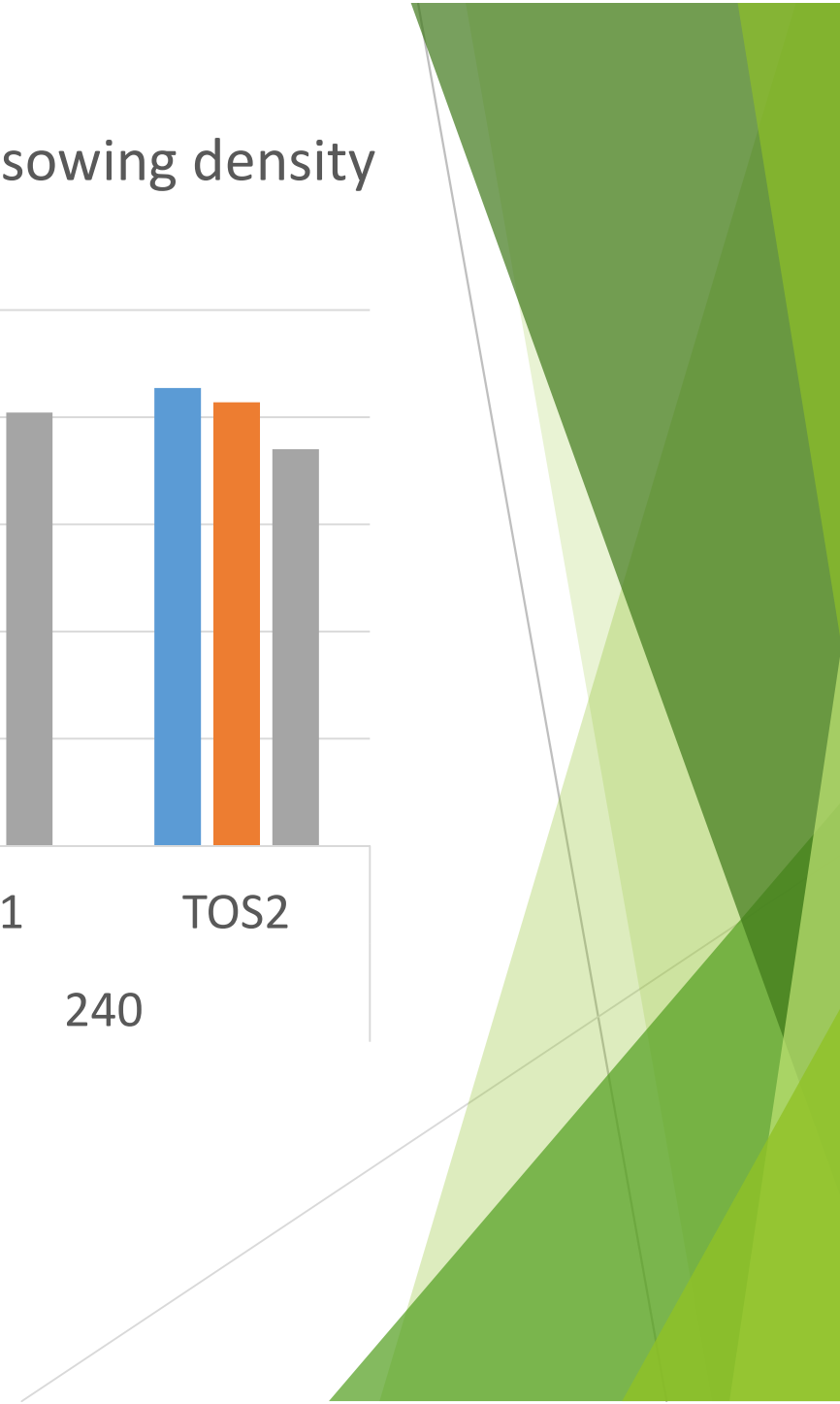
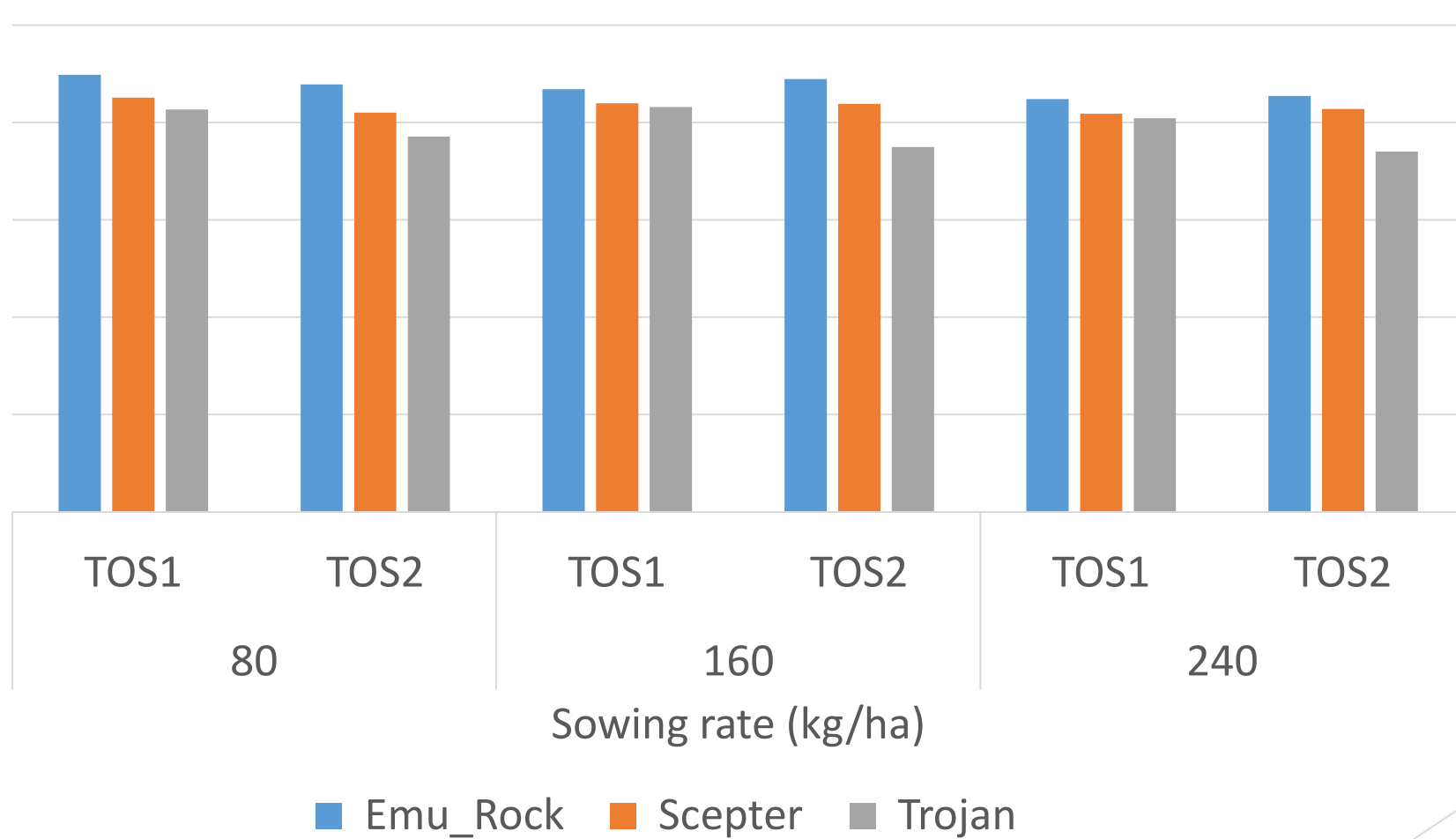
Yield, as determined by TOS and variety



heads /m² as affected by variety and sowing rate



1000gw as effected by TOS, variety and sowing density



Chapter - an overview of TOS1. What drove the highest yields?

| nitrogen rate (kg/ha) | TOS | plants /m ² | heads /m ² | kernels /m ² | g/ 1000 seeds | biomass (t/ha) | yield (t/ha) | Protein (%) |
|---------------------------------|-----|---------------------------|--------------------------|----------------------------|---------------------|-------------------|-----------------|----------------|
| 80 | 1 | 176 | 280 | 11276 | 42.15 | 6.4 | 3.37 | 9.9 |
| 160 | 1 | 297 | 333 | 10953 | 41.37 | 6.1 | 3.02 | 9.6 |
| 240 | 1 | 376 | 428 | 11546 | 39.55 | 7.5 | 3.43 | 10.3 |