

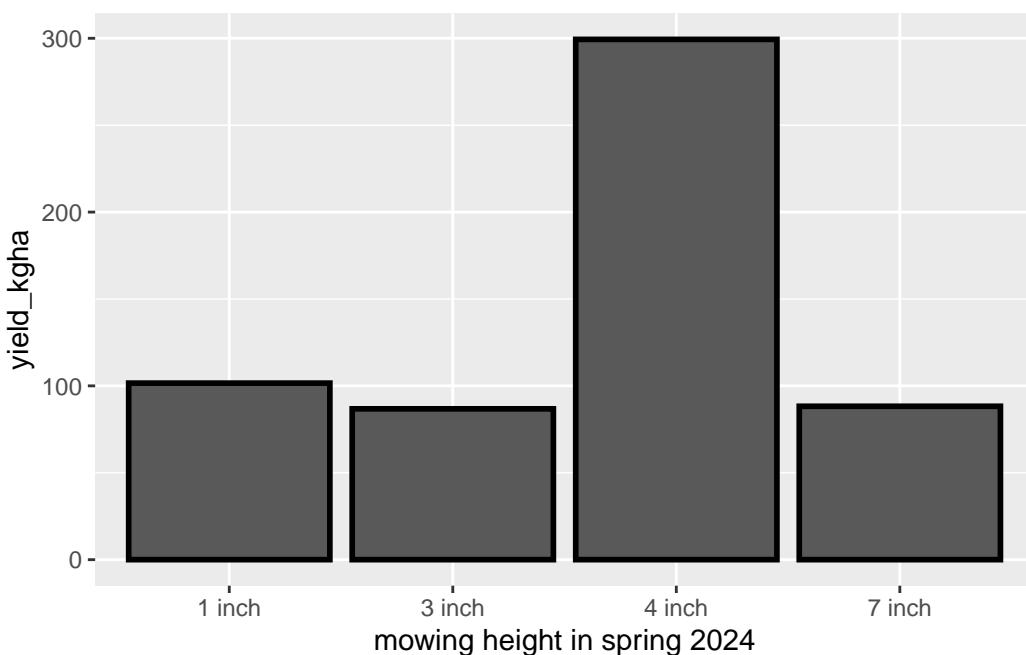
STRIP trial 2024 K8

preliminary

Sustainable Cropping Systems Lab UMN

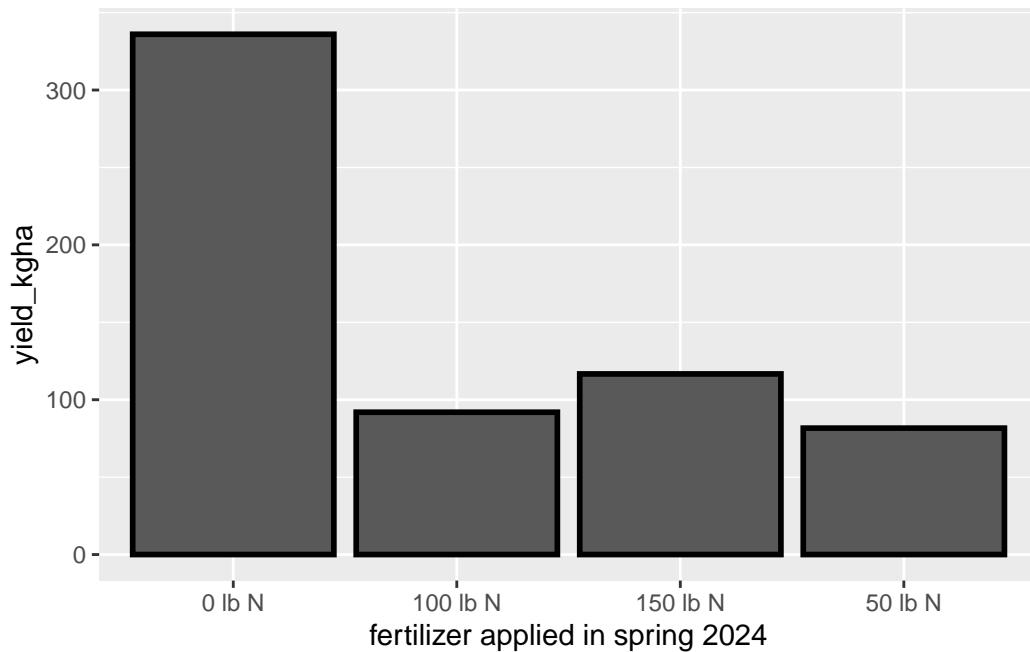
2024-08-27

Mowing trial



trial	treatment	yield_kgha	water_content_percent
mow	1 inch	102	10
mow	3 inch	87	12
mow	4 inch	299	9
mow	7 inch	88	11

Fertilizing trial



trial	treatment	yield_kgha	water_content_percent
fert	0 lb N	336	9
fert	50 lb N	82	9
fert	100 lb N	92	19
fert	150 lb N	117	23

Notes

- Lodging was severe
- Strips that didn't lodge yielded higher
- Yield estimates from combine over area of 800 ft² for mow strips and 650 ft² for fertility strips. Fertility strips were shorter due to instruments in the field we wanted to avoid

Images

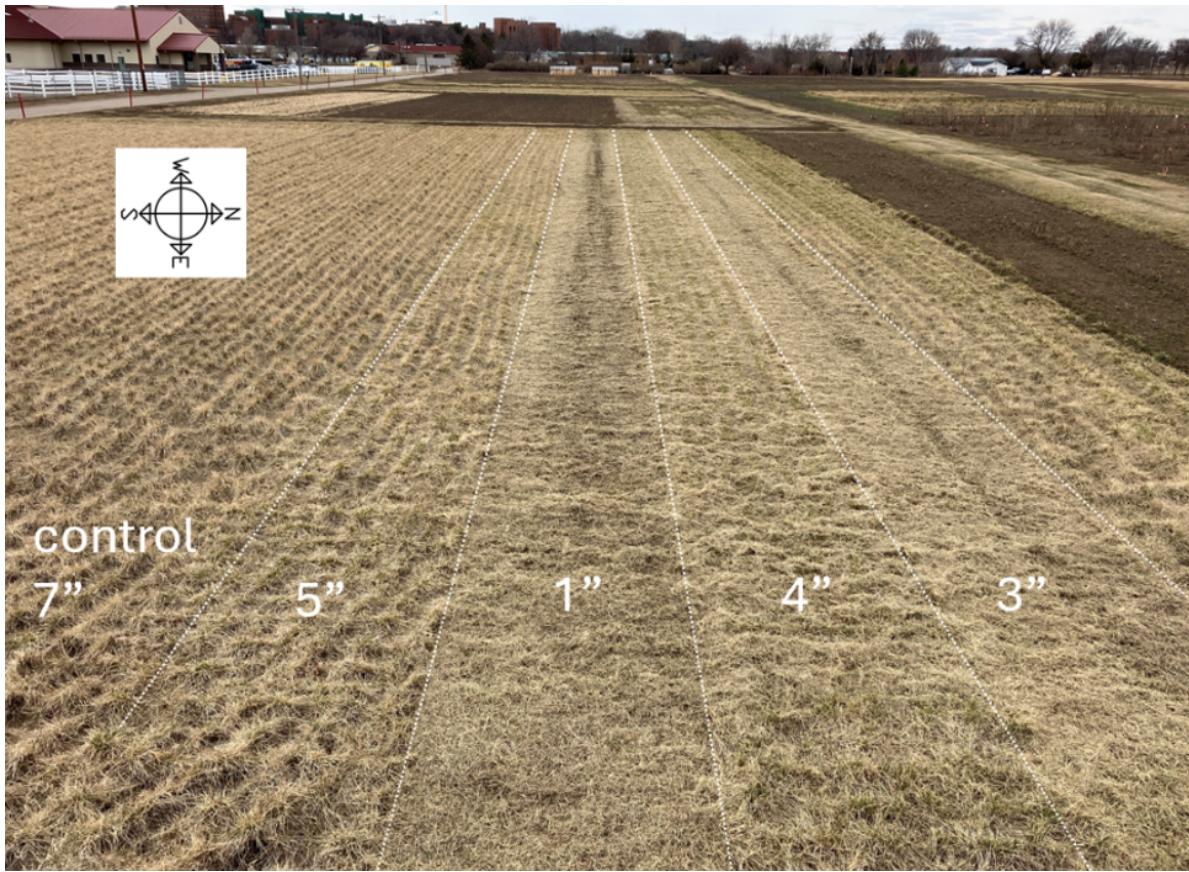


Figure 1: Mow trial after treatments were imposed in early spring

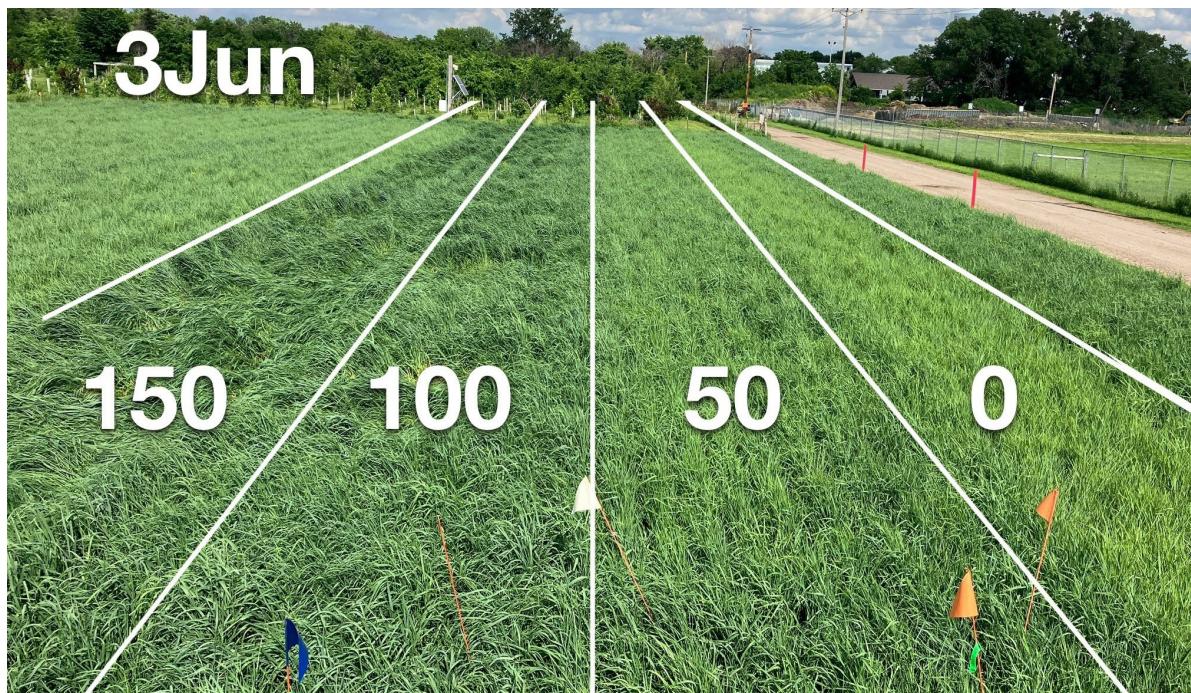


Figure 2: Fertilizing trial on 3June2024. Numbers represent lbs N applied in spring. Already some lodging in 150 lb N strip.



Figure 3: fertilizing trial on 17June2024. Numbers represent lbs N applied in spring. Lodging began and never fully recovered through to harvest. Less lodging in unfertilized 0 lb N strip.



Figure 4: Heavily lodged kernza in a fertility strip. Already lots of regrowth. Very little grain.



Figure 5: cleaner grain sample at 0N



Figure 6: dirtier and greener sample at 100 lb N