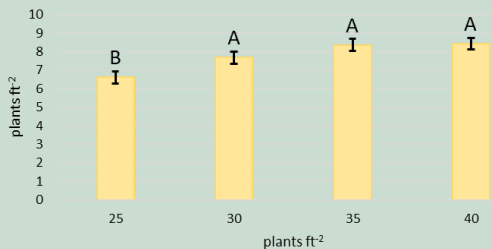


MOST POPULAR WHEAT VARIETIES IN THE NORTH PEACE SOWN AT VARIOUS RATES

Highlights

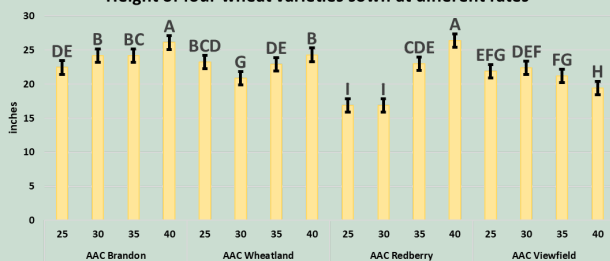
- Emergence
 - More individuals in 35 and 40 plants foot-2
- Height
 - Tallest stems in plots sown at 40 plants foot2 in
 - AAC Brandon
 - AAC Redberry
- Yield, protein and test weight was the same across treatments

Wheat emergence of four varieties of wheat sown at different seeding rates.



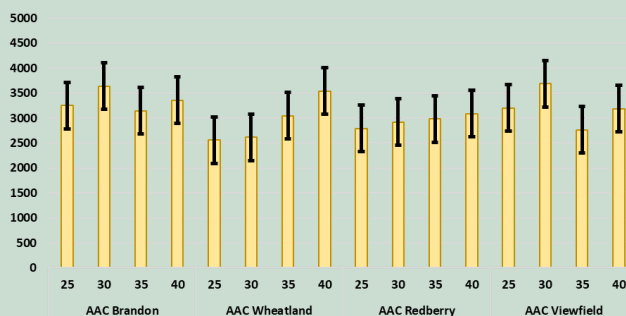
Number of emergent individuals was affected by seeding rates regardless of wheat varieties ($P=0.0031$). As such, number of emergent individuals was 28 and 32% greater at 35 ($P=0.0065$) and 40 ($P=0.0019$) plants per squared foot respectively compared to lower seeding rates. Moreover, combined emergence at seeding rates of 30, 35 and 40 plants per foot was 66% greater than at 25 plants per foot ($P<0.0001$).

Height of four wheat varieties sown at different rates



Height was influenced by both variety and seeding rate ($P=0.0002$). Tallest stands were found in plots sown with AAC Brandon and AAC Redberry at 40 plants per squared foot, whereas shortest individuals were found in AAC Redberry at 25 and 30 plants per squared foot. Indeed, AAC Brandon and AAC Wheatland stands were taller compared to the other varieties by 43 ($P<0.0001$) and 13% ($P=0.0029$) respectively. Moreover, those plants sown at 35 and 40 plants per squared foot showed to be taller by 13 ($P=0.0006$) and 50% ($P<0.0001$).

Yield of four wheat varieties sown at either 25, 30, 35 or 40 plants per squared foot



Even though emergence and height were impacted by wheat variety and seeding rate, there was no effect with either on test weight ($P=0.8181$), yield ($P=0.3436$) and protein content ($P=0.2174$). Yield especially was the same even after AAC Redberry was sown two weeks after the other varieties.

In conclusion, it is possible height and emergence are impacted by variety and seeding rate but eventually yield, test weight and protein content is the same despite the wheat varieties selected and under different seeding rates.