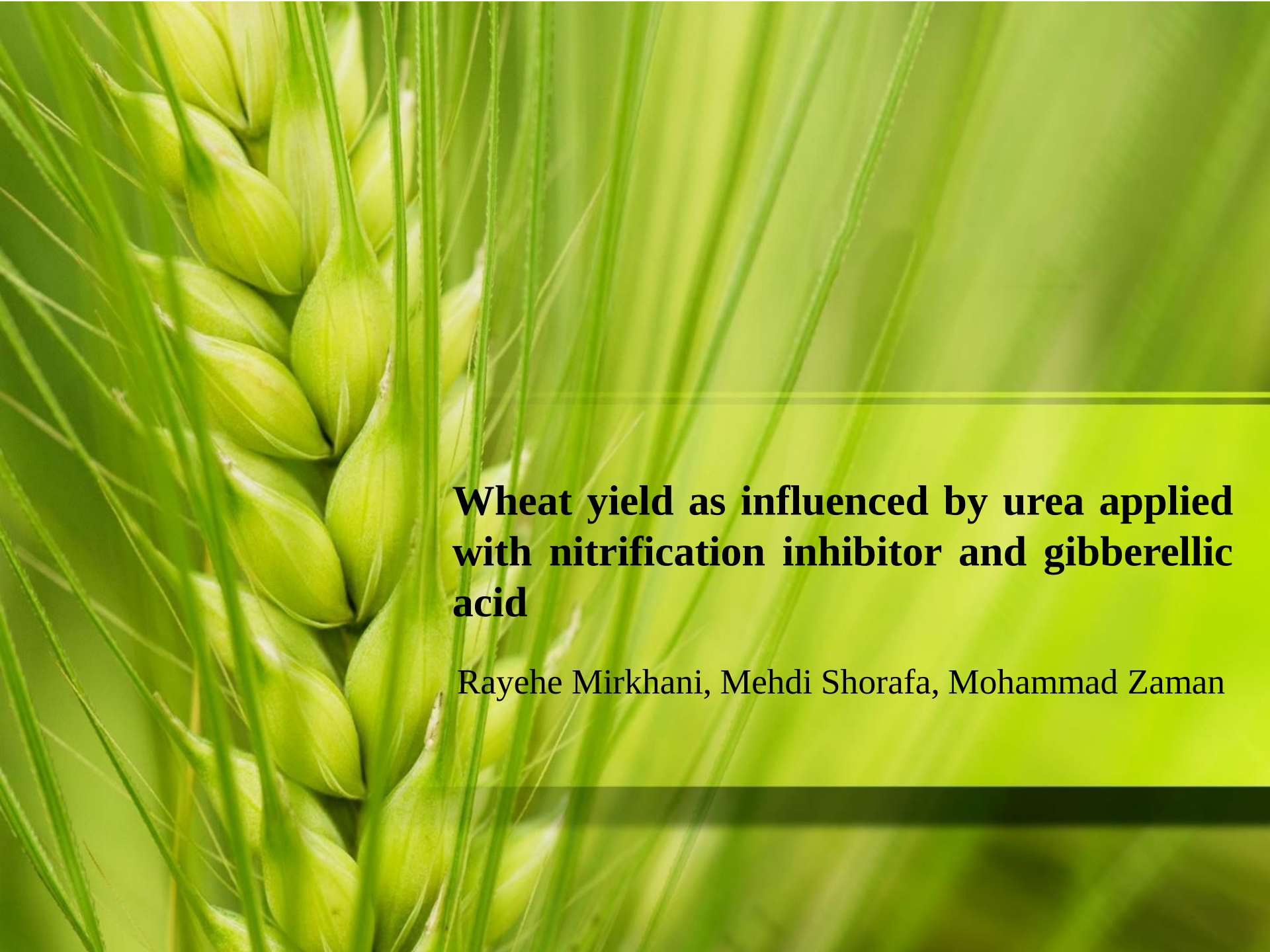
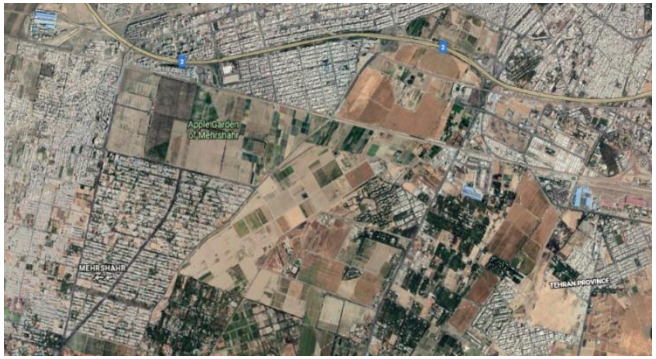


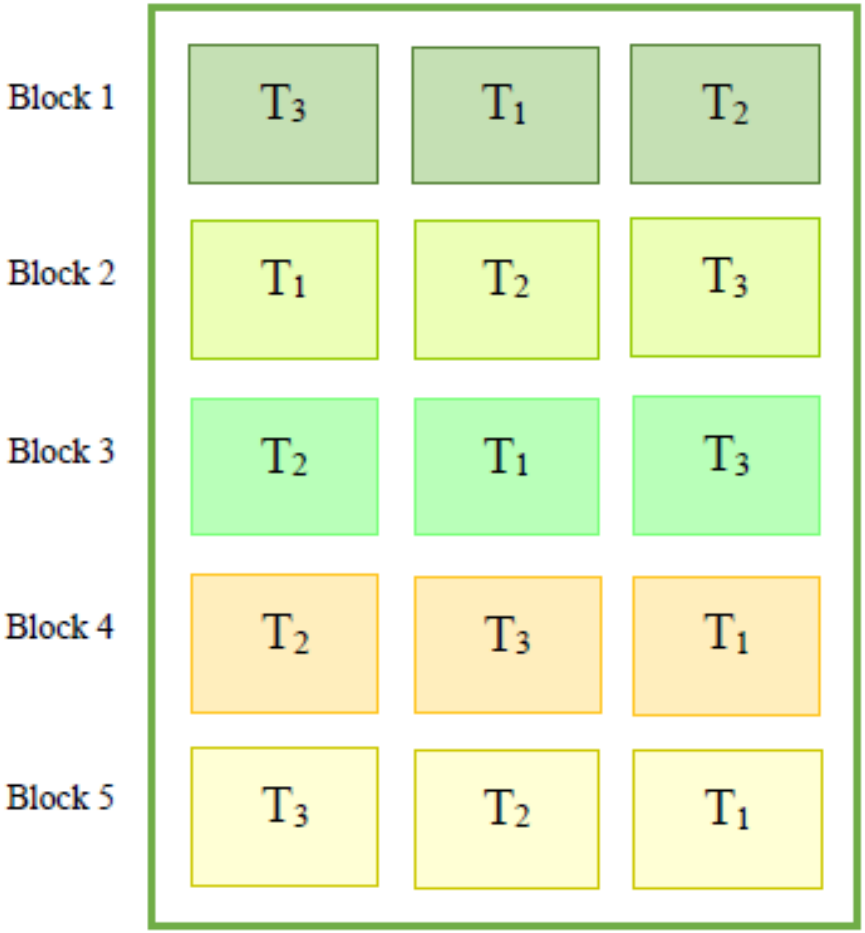
Wheat yield as influenced by urea applied with nitrification inhibitor and gibberellic acid

Rayehe Mirkhani, Mehdi Shorafa, Mohammad Zaman

A field experiment at University of Tehran, Karaj-Iran



Randomized Complete Block Design



Treatments:

T_1	Control Treatment (without Urea)
T_2	Farmers method (300 kg Urea/ha)
T_3	Best Practice (300 Kg Urea/ha+Nitrapyrin+GA3)

Treatments:

Splits	T_2
First split	100 Kg Urea/ha
Second split	100 Kg Urea/ha
Third split	100 Kg Urea/ha

Splits	T_3
First split	100 Kg Urea/ha+Nitrapyrin (700 gr/ha)
Second split	100 Kg Urea/ha+Nitrapyrin (700 gr/ha)+GA3
Third split	100 Kg Urea/ha+Nitrapyrin (700 gr/ha)

Applying GA3

Results:

- ✓ The crop yield data showed that, urea applied with NP and GA3 had a significant ($p \leq 0.01$) effect on grain yield, biological yield, number of grains, 1000-grain weight and % Harvest Index (%HI) compared to other treatments.

- ✓ Urea applied with NP and GA3 increased grain yield (10.30 t/ha) by 13.9% and 46.1% compared to farmer practices (9.04 t/ha) and control treatment (7.05 t /ha).

- ✓ These results suggest that co-application of urea with NP and GA3 has the potential to enhance wheat yield in semi-arid area of Iran.

Thank you for your attention