

Bio-efficacy Evaluation of Organic Fertilizer combination Vigore for use in wheat crop for better growth, Development, Crop health and yield.
G. B. Pant University of Agriculture and Technology, Pantnagar



Experiment details :

Product : Vigore

Year of experiment: Rabi 2012-13 & Rabi 2013-14

Crop: Wheat

Variety: UP 2565

Experimental design: Randomized Block design (RBD) 12 x 3

Results: Average of 2 years reports

Vigore dosage: 312.5 gm + RDF two split N

Year: Rabi 2012-13

| Treatments | Plant height (cm) | No. of tillers/m ² | No. of grains / panicle | Grain yield (kg/ha) | Straw yield (Kg/ha) |
|---------------------|-------------------|-------------------------------|-------------------------|---------------------|---------------------|
| Untreated Check | 80.5 | 282 | 42.3 | 3333 | 8666 |
| Vigore applied plot | 89.9 | 488 | 49.7 | 4533 | 9200 |
| % increase | 11.7 | 73.0 | 17.5 | 36.0 | 6.2 |

Year: Rabi 2013-14

| Treatments | Plant height (cm) | No. of tillers/m ² | No. of grains / panicle | Grain yield (Kg/ha) | Straw yield (Kg/ha) |
|---------------------|-------------------|-------------------------------|-------------------------|---------------------|---------------------|
| Untreated Check | 55.3 | 275 | 40 | 3400 | 8600 |
| Vigore applied plot | 61.5 | 320 | 52 | 4590 | 9210 |
| % increase | 11.2 | 16.4 | 28.5 | 35.0 | 7.0 |

Conclusion:

The results presented in above tables for the wheat crop of Rabi season 2012-13 & 2013-14 respectively revealed that the application of Vigore 312.5 gm + RDF two split N/ ha significantly increased the plant height, no. of tillers, Grain yield, straw yield and Harvest index. Application of Vigore treatment was more effective as compare to control. They proved significantly higher grain yield & increased grain yield by 35.00 % to 36.00 % respectively.

