

CORN FIELD TRIALS WITH HUMATE COATED UREA (HCU)

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HCU- Humate Coated Urea

New formula of Dr. Humate contains raw Humate (New Mex humate), Urea, all essential micronutrients and, binding material.



Q? IS HUMATE- COATED UREA BETTER THAN UREA FOR GROWING CORN?



General view of experimental plots at the day of application of fertilizers (May 30th):

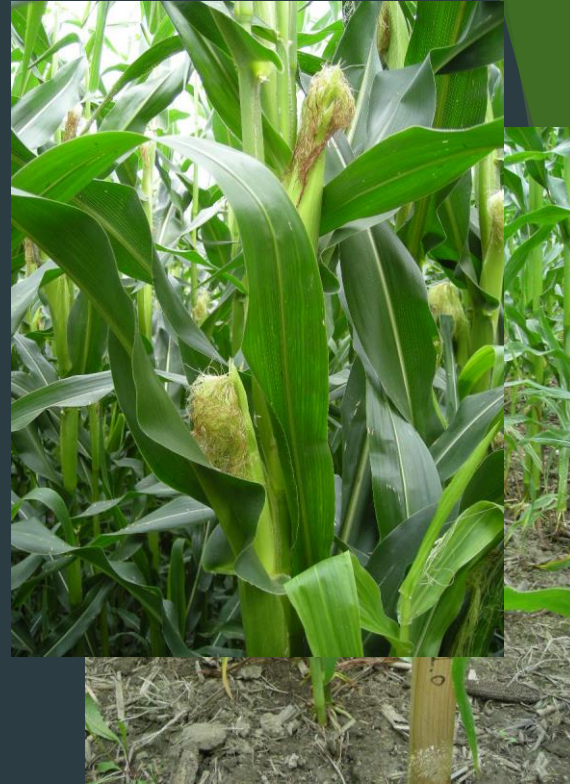


The stakes mark experimental rows

Prills of urea and Humate Coated Urea (HCU) spread on the surface of soil near the plants of maize in two doses- 10 g/plant (“0.5 dose”) and 20 g/plant (“1.0 dose”):



July: the experimental plots

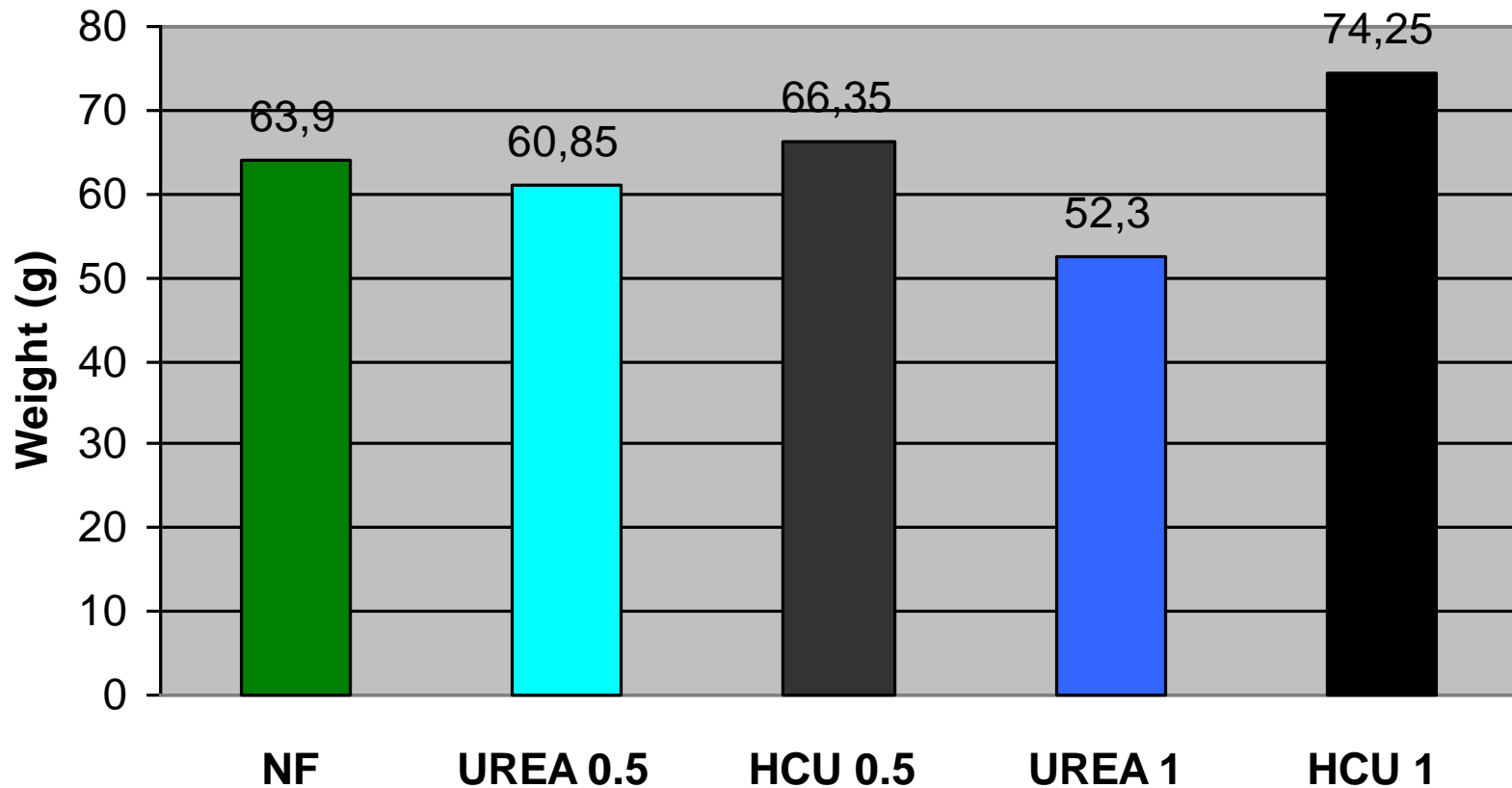


Immature corn cobs: there is visible difference of corn cobs taken from “urea” and “HCU” plants:



Only full dose of application of humate coated urea was able to increase weight of immature corn cobs up to 16%.

Effect of UREA and HCU on Fresh weight of immature maize cobs



View of the experimental plants during the last week of September (time of collections of corn cobs for the yield evaluation):



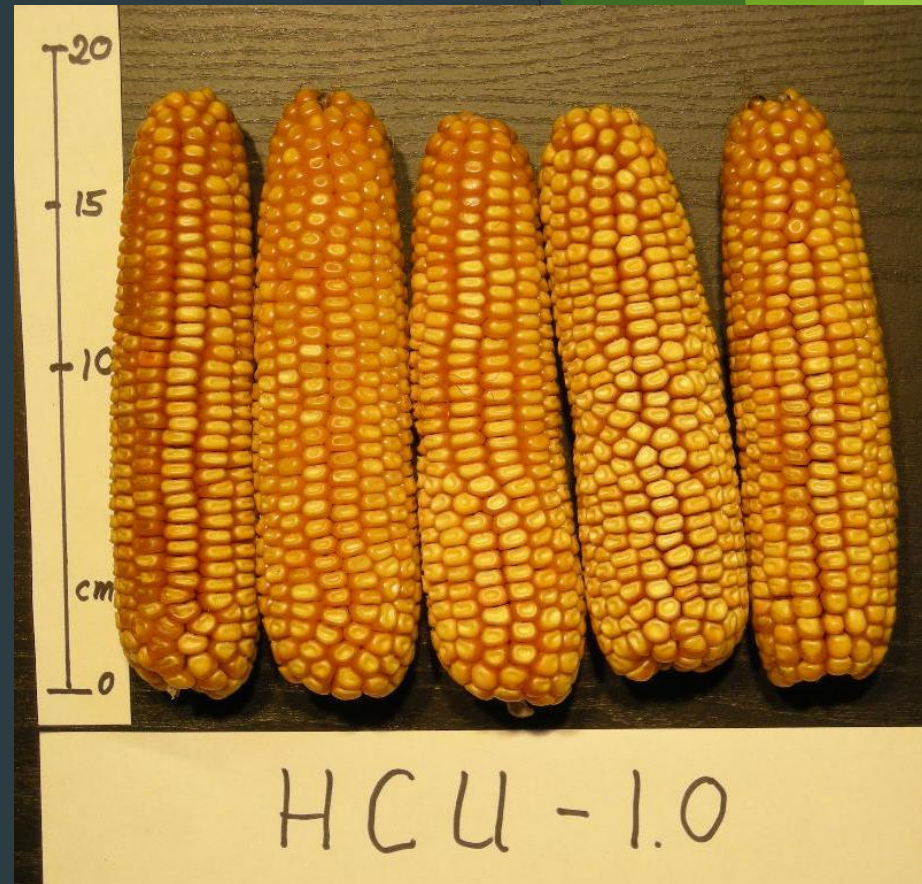
The dried cobs (M.C. ~ 21%) randomly selected from “urea” and “Humate Coated Urea” plants:



There is visible difference of maize cobs taken from “UREA” and “HCU” plants:



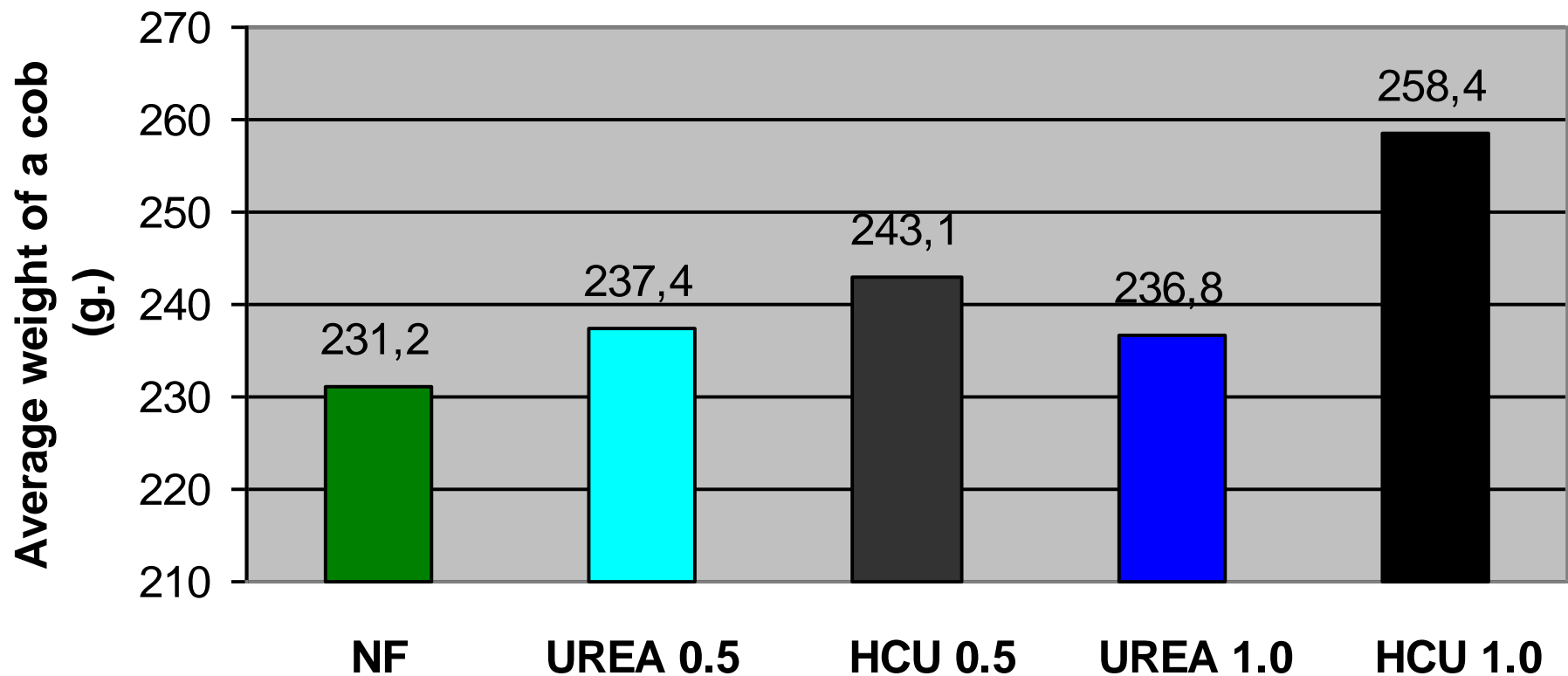
UREA - 1.0



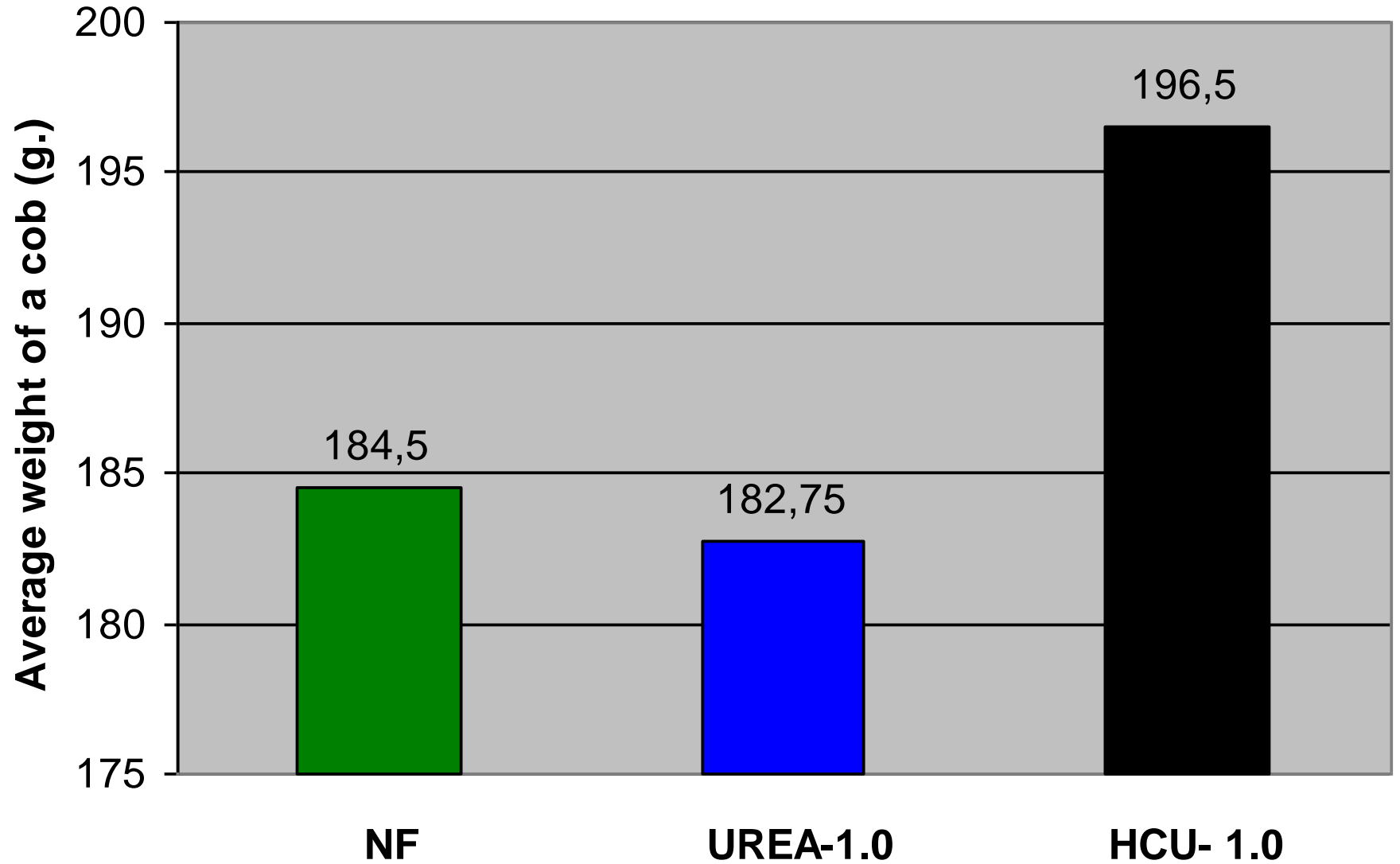
HCU - 1.0

The full dose of application of HCU was able to increase weight of corn cobs up to 12%. Application of urea alone did not show any significant difference from control.

Weight of freshly harvested maize cobs

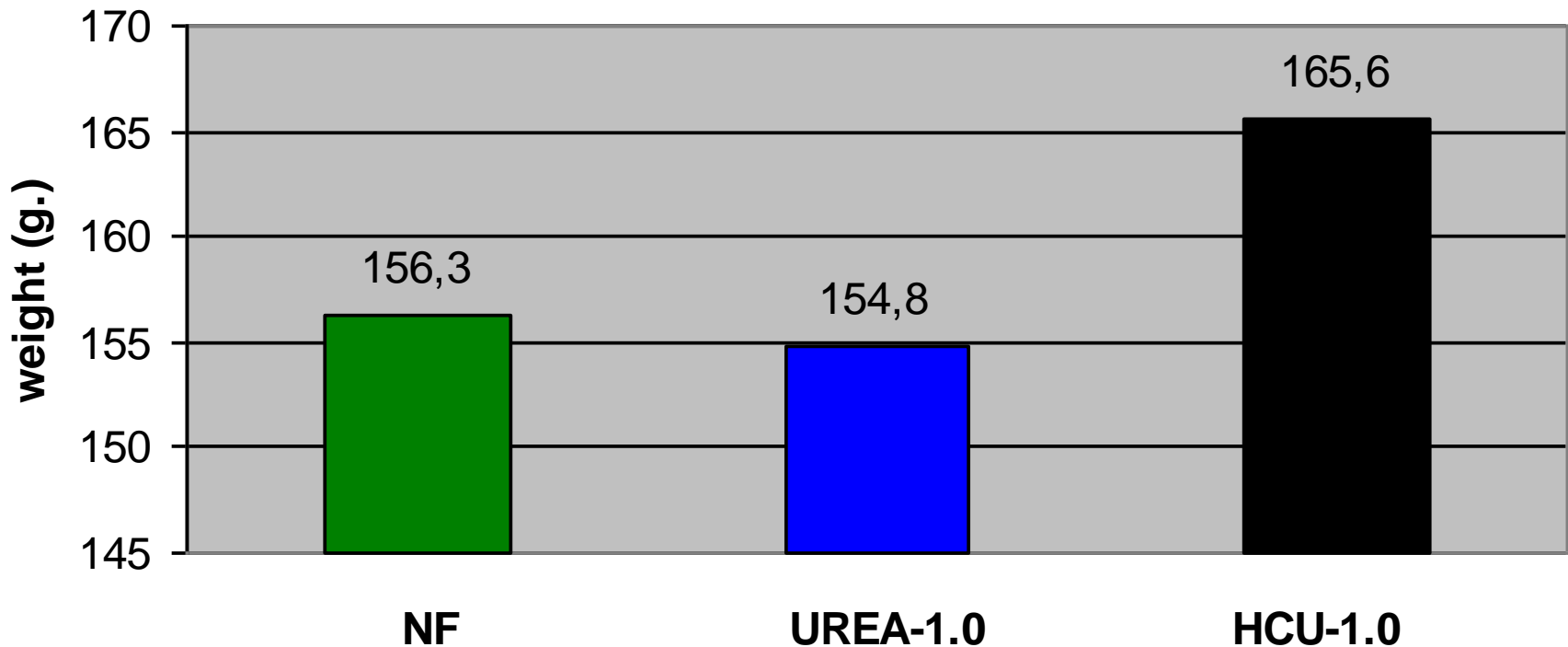


Weight of maize cobs



Only HCU increased the total weight of kernels in a corn cob by 5.95%:

Weight of kernels per a maize cob



General conclusions:

- ▶ For Corn (*Zea mays* L.): PIONEER Hybrid 35F37” only HCU increased the total fresh and dry weight of kernels in a cob ;
- ▶ Application of low and high dosages of urea did not show any improvement over the control. A possible reason- the sufficient amount of Nitrogen in the soil of experimental plot at the time of urea application;
- ▶ HCU promoted the yield only because of the presence of raw humate in it's composition (regardless of nitrogen content in soil).

▶ **THE MAIN CONCLUSION:**

The application of HCU can bring by 25% of savings in cost of the fertilizer compared to application of urea alone

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