

BIOAKTIV FarEast

Brazil: UFRGS's Study on Ryegrass

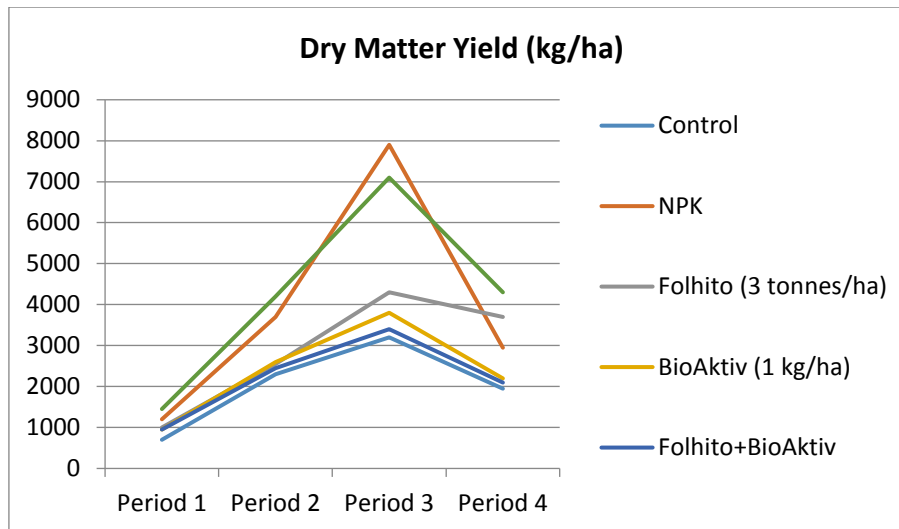


The Department of Animal Science, Faculty of Agronomy, Federal University of Rio Grande do Sul (UFRGS) reported in December 2012 on a study they conducted in Porto Alegre, Brazil. The study was on the effect of applying BioAktiv for Plants on the yield and minerals retention of ryegrass. Involving in the study were BioAktiv supplier PJS Geologie Ltda, compost producer Folhito, and UFRGS ruminant supplement study group.

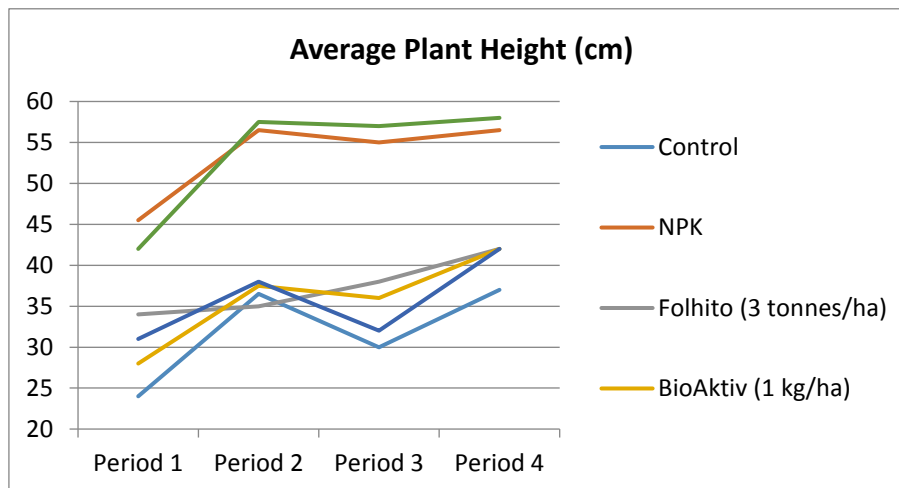


As shown above there were six plots planted with ryegrass. The study team treated the plots (1 to 6 from the left) as follows:

1. NPK fertiliser
2. Folhito compost – 3 tonnes/ha
3. NPK + Folhito + BioAktiv
4. Nothing – control
5. BioAktiv – 1 kg/ha
6. Folhito + BioAktiv



The team carried out the specific treatments to the six plots four times. The chart above shows the dry matter (at 60°C) yields (kg/ha) from the six plots in the four periods. The chart below shows the average height of the ryegrass (cm) from the six plots in the four periods.



The table below shows the averages of the results of the four periods. All the differences between the two average plant heights involving NPK fertiliser and others are statistically significant.

Plot	Average Dry Matter Yield (kg/ha)	Average Plant Height (cm)
Control	2,006.7	30.00 ^b
NPK	3,907.6	52.92 ^a
Folhito (3 tonnes/ha)	2,884.6	35.82 ^b
BioAktiv (1 kg/ha)	2,365.4	33.82 ^b
Folhito + BioAktiv	2,139.1	33.00 ^b
Folhito + BioAktiv + NPK	4,271.1	52.67 ^a

a, b – statistically significant ($p < 0.05$)

From the two charts above, it is clear that plot applied with BioAktiv consistently had a higher yield and taller ryegrass than those of the control plot in all the four periods. As a result the average yield of the BioAktiv plot was 17.9% higher than that of the control plot.

[\[Original report \(German\)\]](#)