

2020 PARNDANA SMALL PLOT FERTILISER TRIAL

Background

The BioAg fertiliser trial was established in 2019. The trial has 6 treatments with 4 replications and compares various BioAg products and rates against an annual application of single super.

What was done

The site is located on M & M Tremaine's at the big bend on the Playford Highway east of Parndana. The pasture is an annual regenerating pasture. In 2019, the composition was 70:30 clover:capeweed. The site was burnt in January 2020 and it is likely that this influenced capeweed to dominate the sward with the ratio tending 10:90 clover:capeweed in 2020.

The biomass was measured by mowing with a push behind mower and weighing the catchings. The site was not grazed.

Results

Below is a summary from the site in 2020 when 4 cuts were taken. The trial will run for another two years.

Table 1 Means and standard errors of each treatment at each harvest time. Units are kg/ha

Treatment	6-Jun 20	7-Aug 20	4-Sep 20	3-Dec 20	Cumulative
Control	1670±130	2613±195	2355±176	3187±186	9824±341
275kg Superb - biennial	1518±130	2844±195	2693±176	2897±186	9952±341
200kg PhosS10 - biennial	1507±129	2964±194	2844±175	2903±184	10218±339
125kg Single - annual	1428±129	3033±194	2301±175	3013±184	9775±339
135kg Superb - annual	1539±130	2922±195	2595±176	3114±186	10171±341
275kg Superb+lime+Trace Elements -biennial	1730±109	2953±164	2651±148	2724±156	10058±270

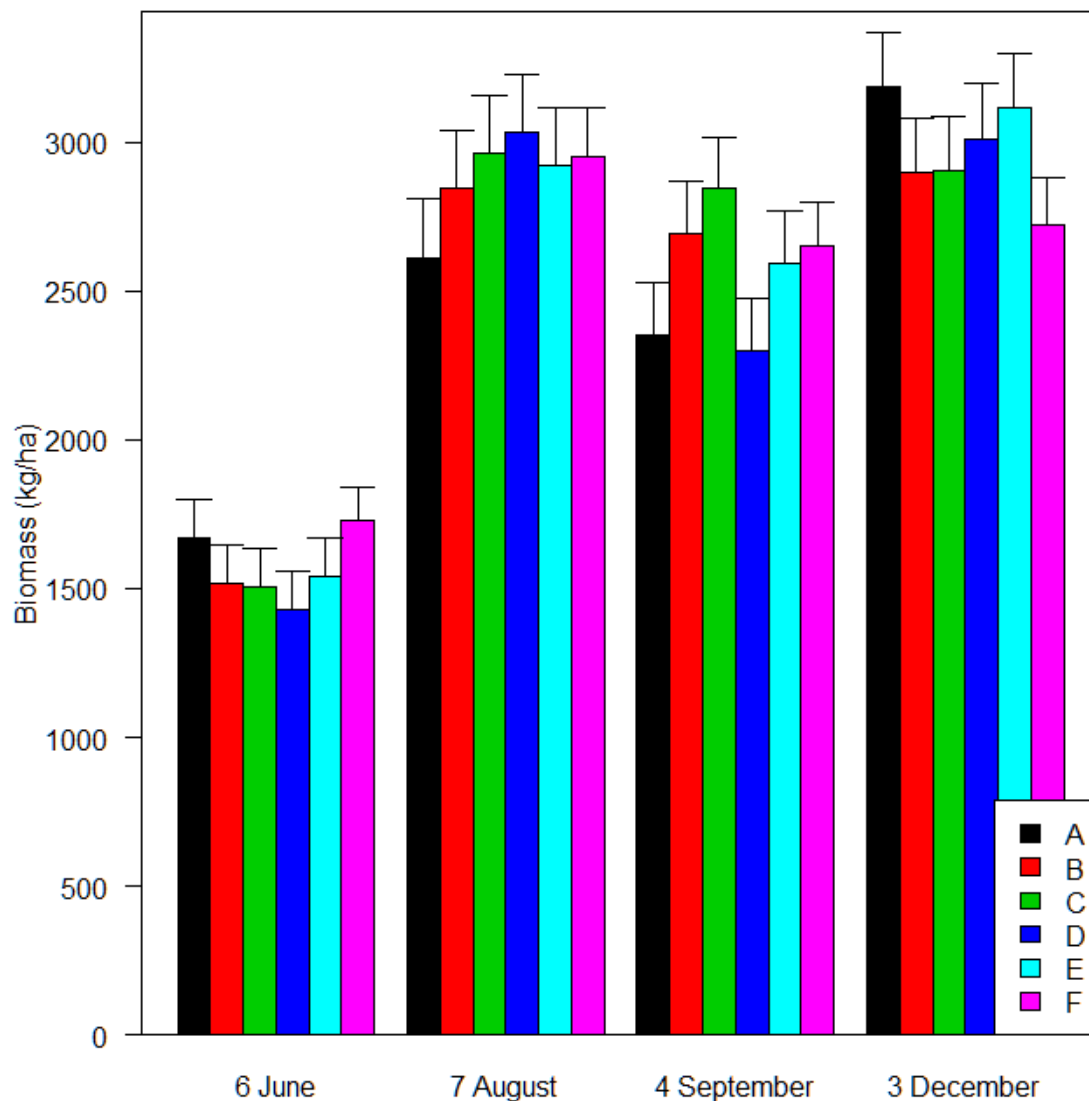


Figure 1 Bar plot of averages across treatments of cuts at each date for Parndana trial. Error bars are standard errors. Refer to codes in Table 2 to identify treatments.

Take home messages

- There was no significant difference on a dry matter basis between all fertilizer products. Nor was there an effect of the cumulative amount over the four harvest times.
- There was a hint in the data that plots receiving treatment D (single super) were the least productive at both the Parndana and the Stokes Bay trials.

Funding/sponsors

BioAg

Tremain family

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