

Trial Report – Jan 31 2011

Glencoe Station, Hawkes Bay, 2010

Bull beef growth rate trial comparing standard pastures to BioAg soil and pasture fertility programme.

Commencement date: 03/03/2010

Key: Farm owner's references -

FRR = Flat Rock RumiMate. I.e. Standard pasture; animals treated with RumiMate

FRP = Flat Rock Plain. I.e. Standard pasture; animals without RumiMate

BTR = Big Tank RumiMate and BioAg Country. I.e. BioAg treated pasture with animals dosed with RumiMate

BTP = Big Tank BioAg Country. I.e. BioAg treated pasture; animals without RumiMate

All animals were drenched once with an anthelmintic (Genesis Ultra) at the beginning of the trial. RumiMate was given twice as an addition to nominated animals @ 15mL/head on 6/4/10 and 28/07/10. Original target kill weight was 620kg. Initial expected kill date is December 2010 but stock will be held until February if pasture cover allows. All animals run together in their respective areas i.e. Flat Rock or Big Tank.

After 1st kill draft on 31/01/11 the Flat Rock mob was moved onto the Big Tank BioAg pasture to run with the remaining 8 bulls of the Big Tank mob.

Observation – Flat Rock mob were dirty vs. clean Big Tank bulls

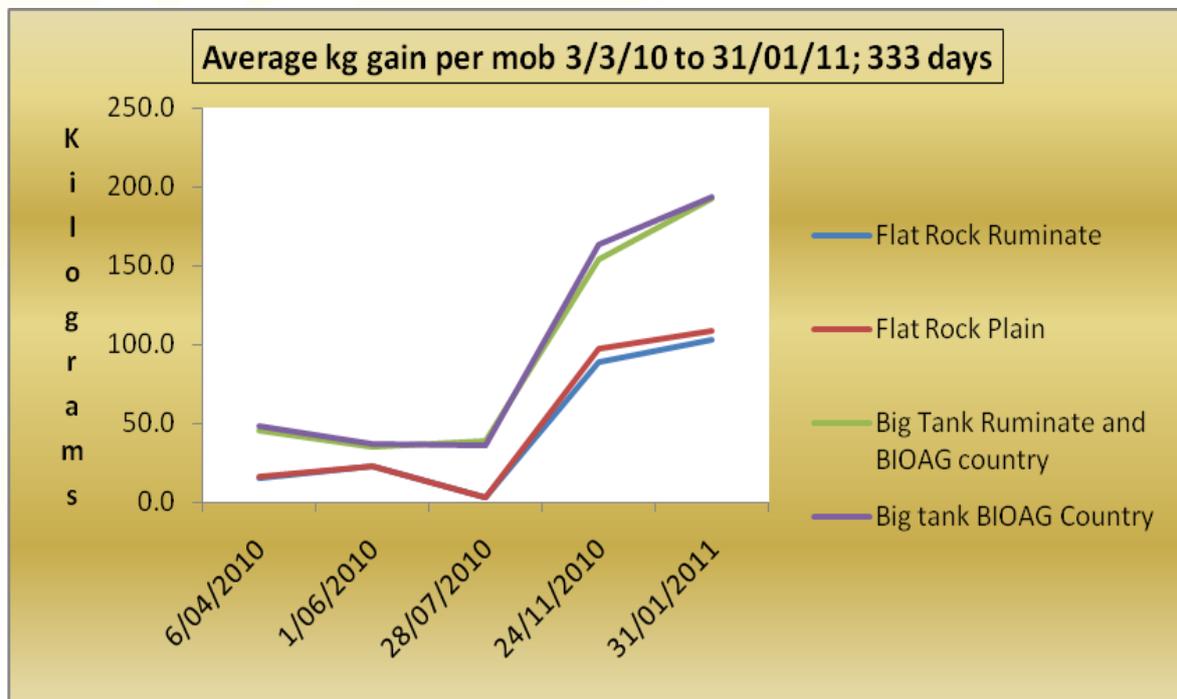


Graph 1: Weight gain pattern per mob

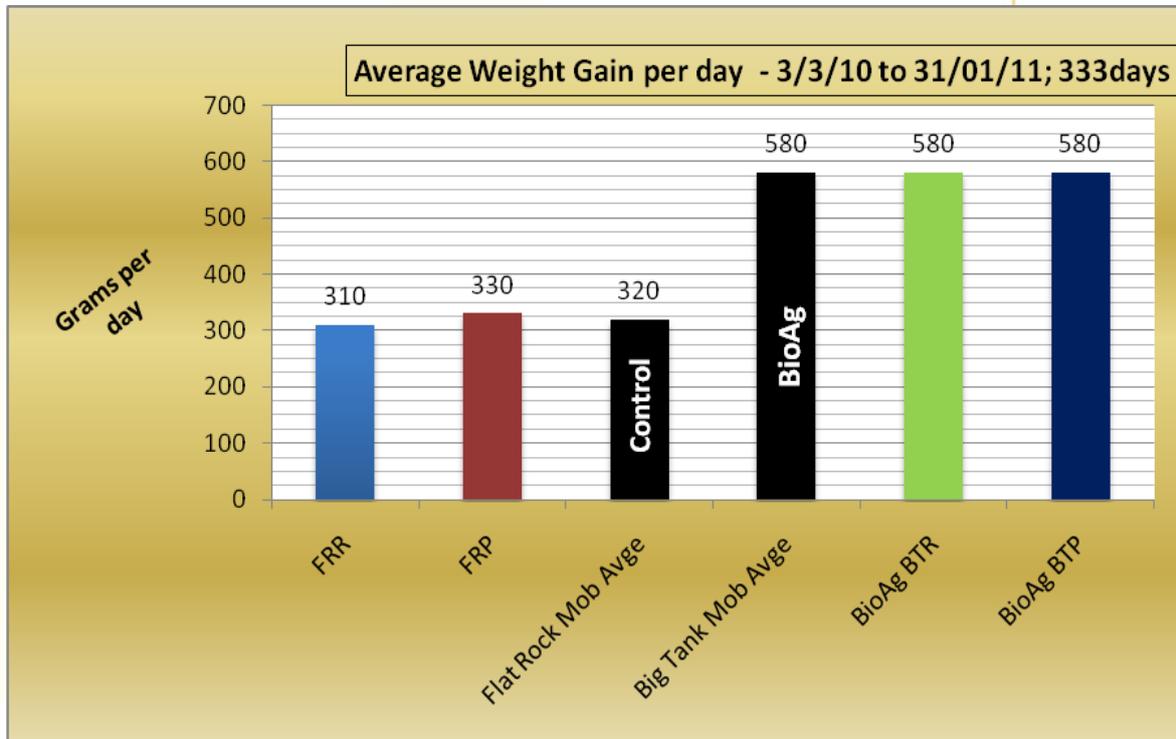
Technical Bytes



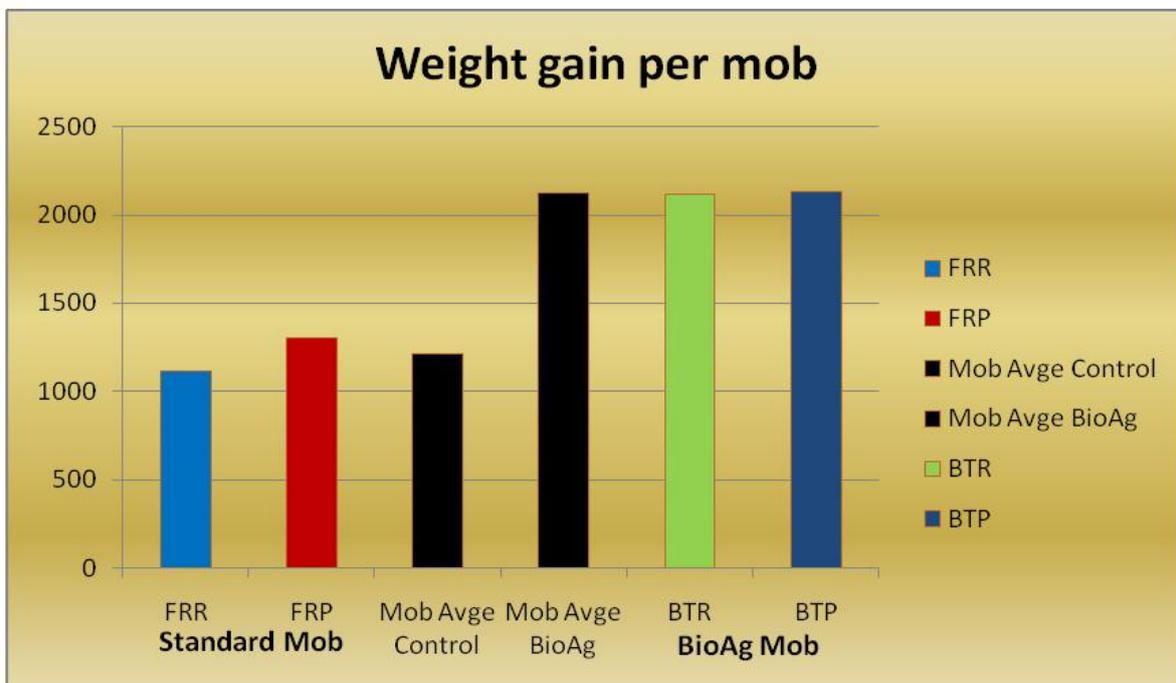
Average kg gain per mob from 3/3/10	6/04/2010	1/06/2010	28/07/2010	24/11/2010	31/01/2011
Flat Rock Ruminant	15.5	22.64	2.55	89.10	103.00
Flat Rock Plain	15.8	23.17	3.17	97.00	108.80
Big Tank Ruminant and BIOAG country	45.5	34.91	38.36	154.00	192.20
Big tank BIOAG Country	48.3	37.27	36.36	163.00	193.50



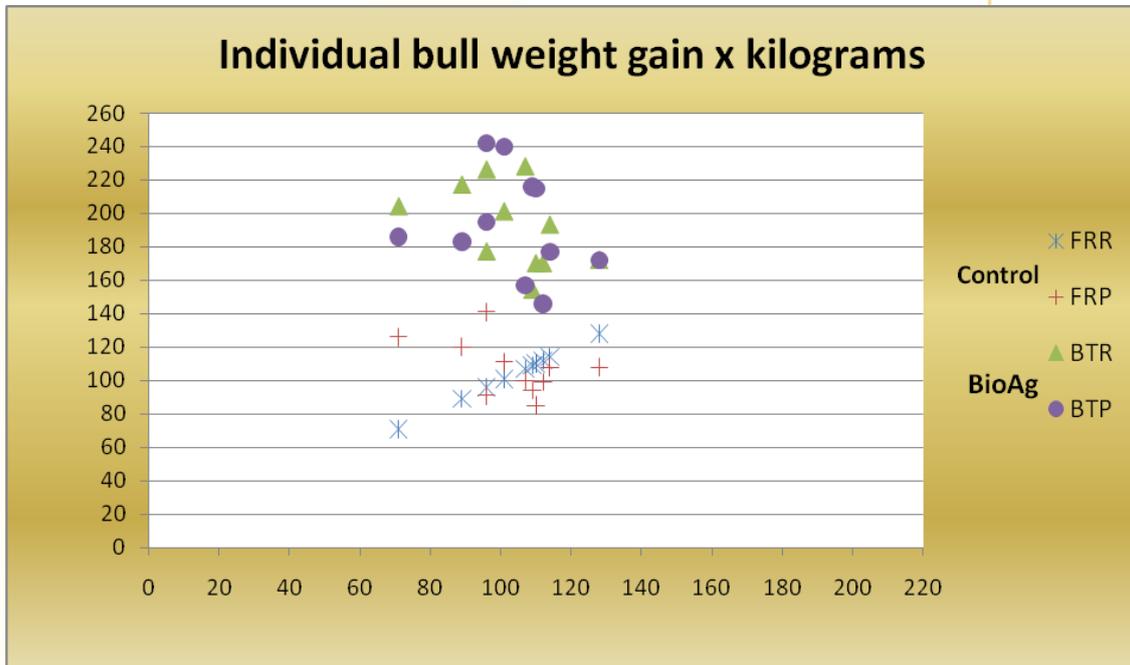
Graph 1: Average kg gain per mob



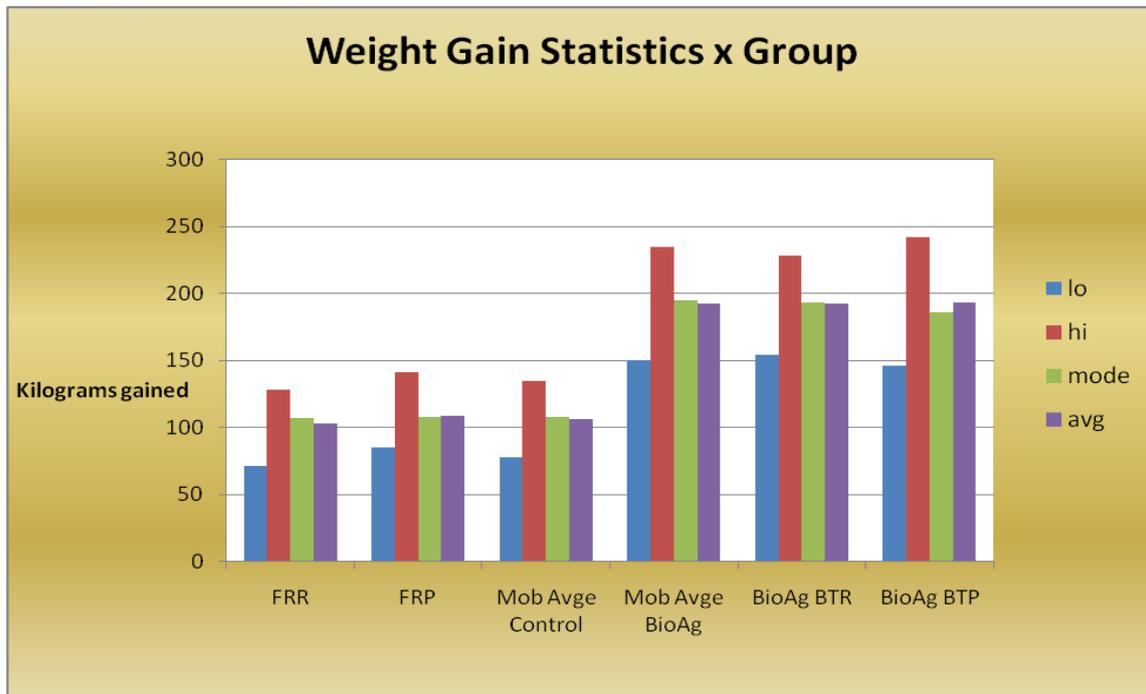
Graph 2: Average weight gain of bulls in each grouping



Graph 3: Total kg weight gain for each grouping and mob average's



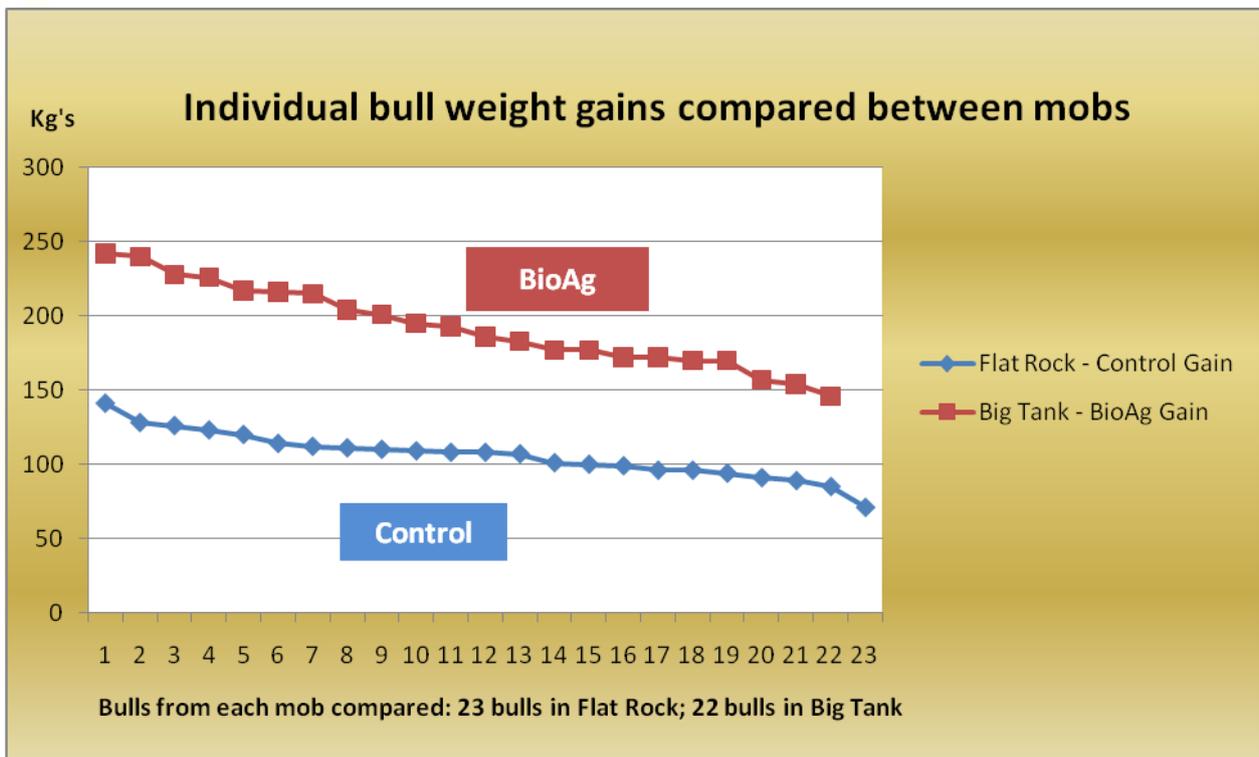
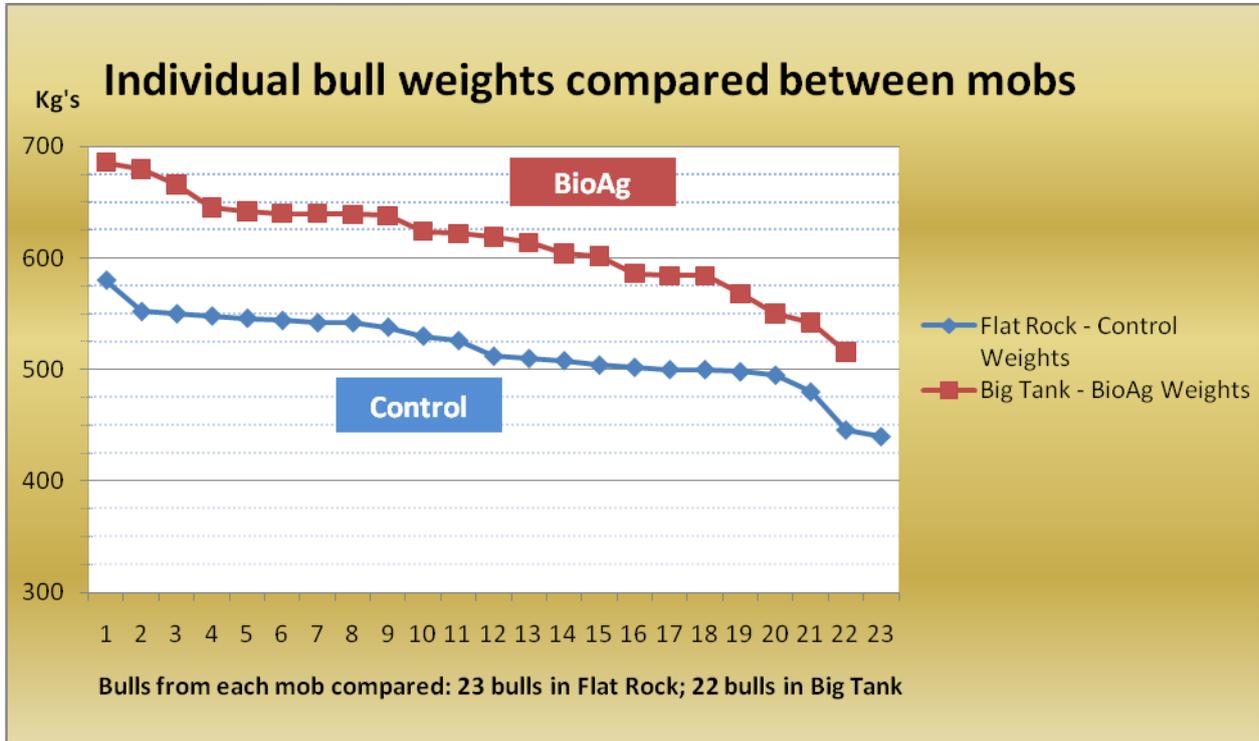
Graph 4: Individual bull weight gain x kilograms



Graph 5: Group Statistics

Mode = weight gain in each group for which 50% of the mob is below.

The lowest individual weight gain for the BioAg mob is 146kg vs. 71kg in the Flat Rock mob.
The highest individual weight gain in the Flat Rock mob is 141kg vs. 242kg in the BioAg mob.

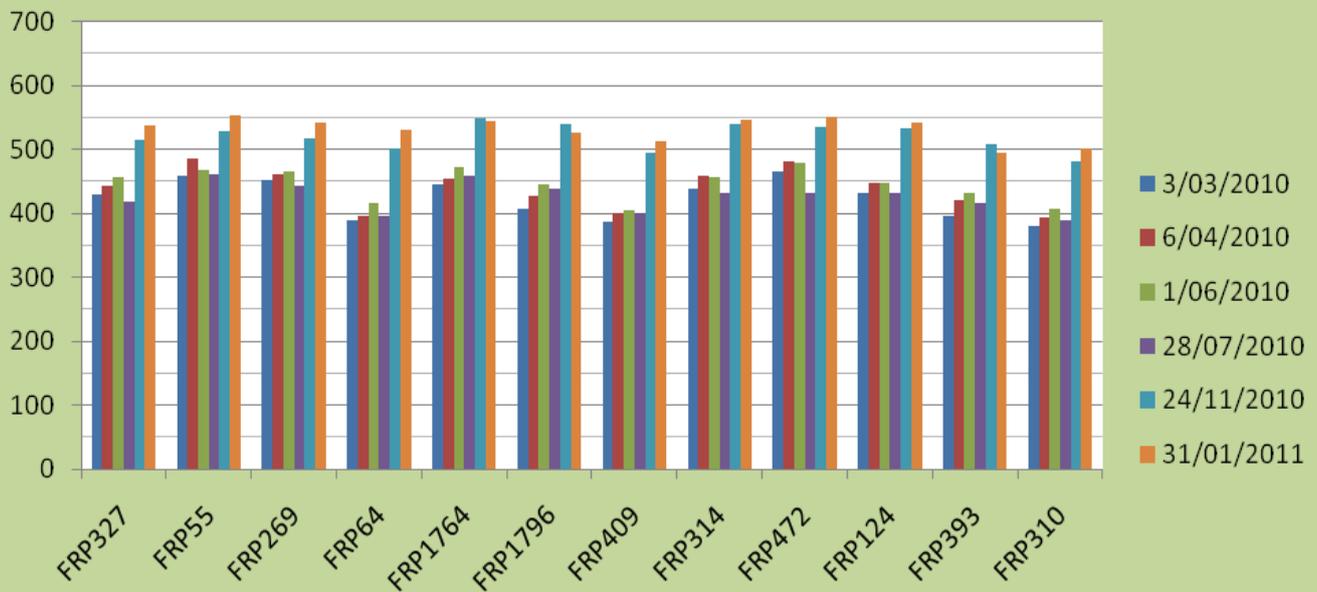


NB. 6 Bulls in Flat Rock mob lost weight between 28/11/10 and 31/01/11
All Flat Rock bulls lost weight in the late winter interval between 01/06/10 and 28/07/10

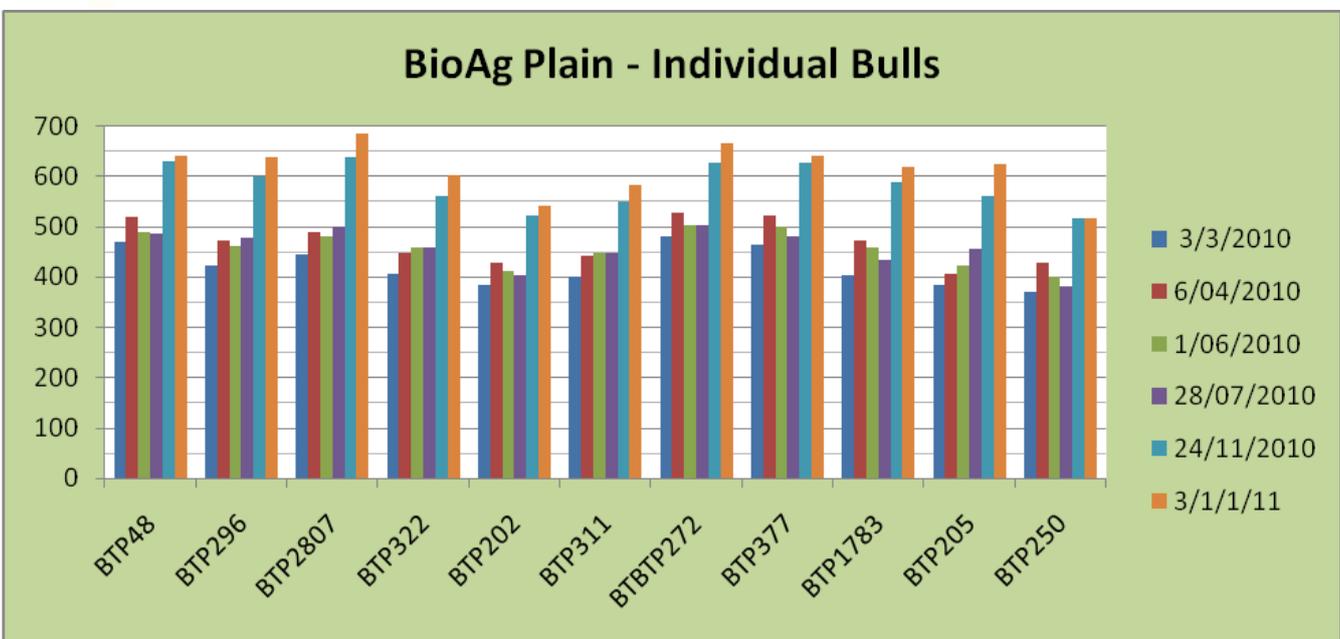
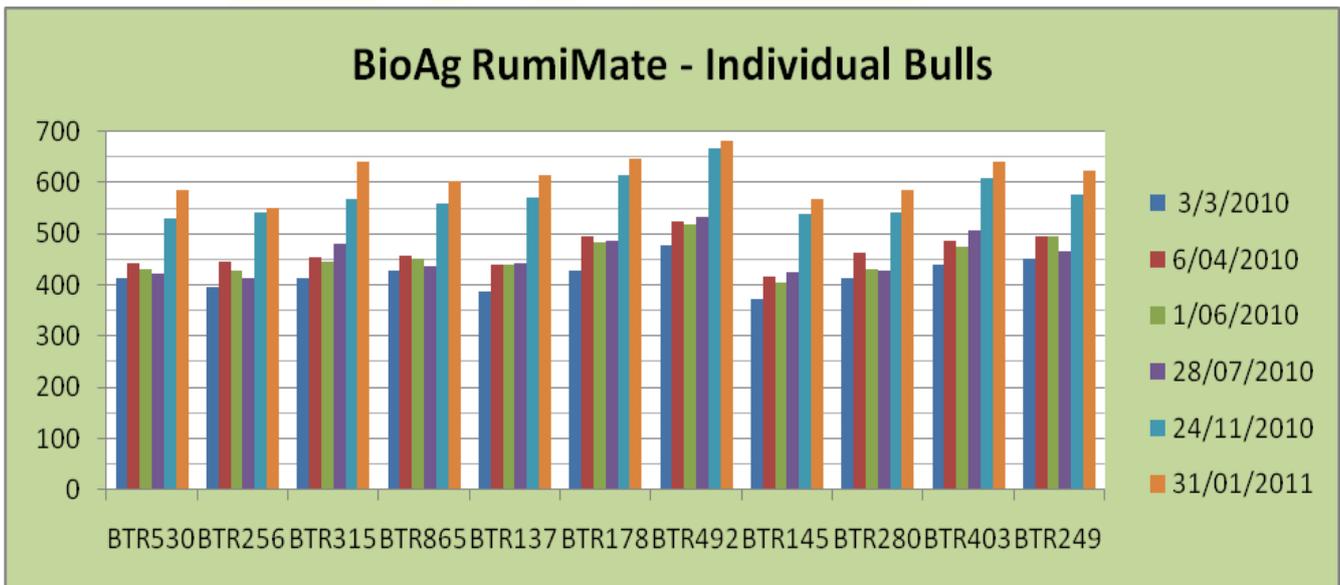
Flat Rock RumiMate - Individual Bulls



Flat Rock Plain - Individual Bulls



NB. No bulls BioAg Big Tank lost weight between 28/11/10 and 31/01/11
 11 Big Tank bulls gained weight in the late winter interval between 01/06/10 and 28/07/10



Tables

Table 1: Individual bull weights compared as at 31/1/11

Mob	FRR weights	FRP weights	BioAg BTR weights	BioAg BTP weights
1st	580	552	680	686
2nd	548	550	645	666
3rd	510	546	640	642
4th	508	544	639	640
5th	504	542	622	638
6th	500	542	614	624
7th	500	538	604	619
8th	498	530	586	602
9th	480	526	584	584
10th	446	512	568	542
11th	440	502	550	516
12th		495		

Table 2: Individual bull weight gains compared as at 31/1/11

Mob	FRR - Gain	FRP - Gain	BioAg BTR - Gain	BioAg BTP - Gain
1st	128	141	228	242
2nd	114	126	226	240
3rd	112	123	217	216
4th	110	120	204	215
5th	109	111	201	195
6th	107	108	193	186
7th	101	108	177	183
8th	96	100	172	177
9th	96	99	170	172
10th	89	94	170	157
11th	71	91	154	146
12th		85		

Table 3: % Killing yields compared as at 31/1/2011
Yeild target is 52%

Mob	FRR yield	FRP yield	BioAg BTR yield	BioAg BTP yield
1st			55.44	56.64
2nd			54.23	53.59
3rd			53.17	53.30
4th			51.28	52.66
5th			51.15	52.47
6th			50.93	51.18
7th			50.85	51.71
8th				
9th				
10th				
11th				
12th				
Average			52.43	53.07

First draft for killing was 31/01/11.