



Hormone growth promotants in the NT

Results from Hayfield PDS



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A joint initiative of:



Proudly supported by:



Northern
Territory
Government

Hayfield Station



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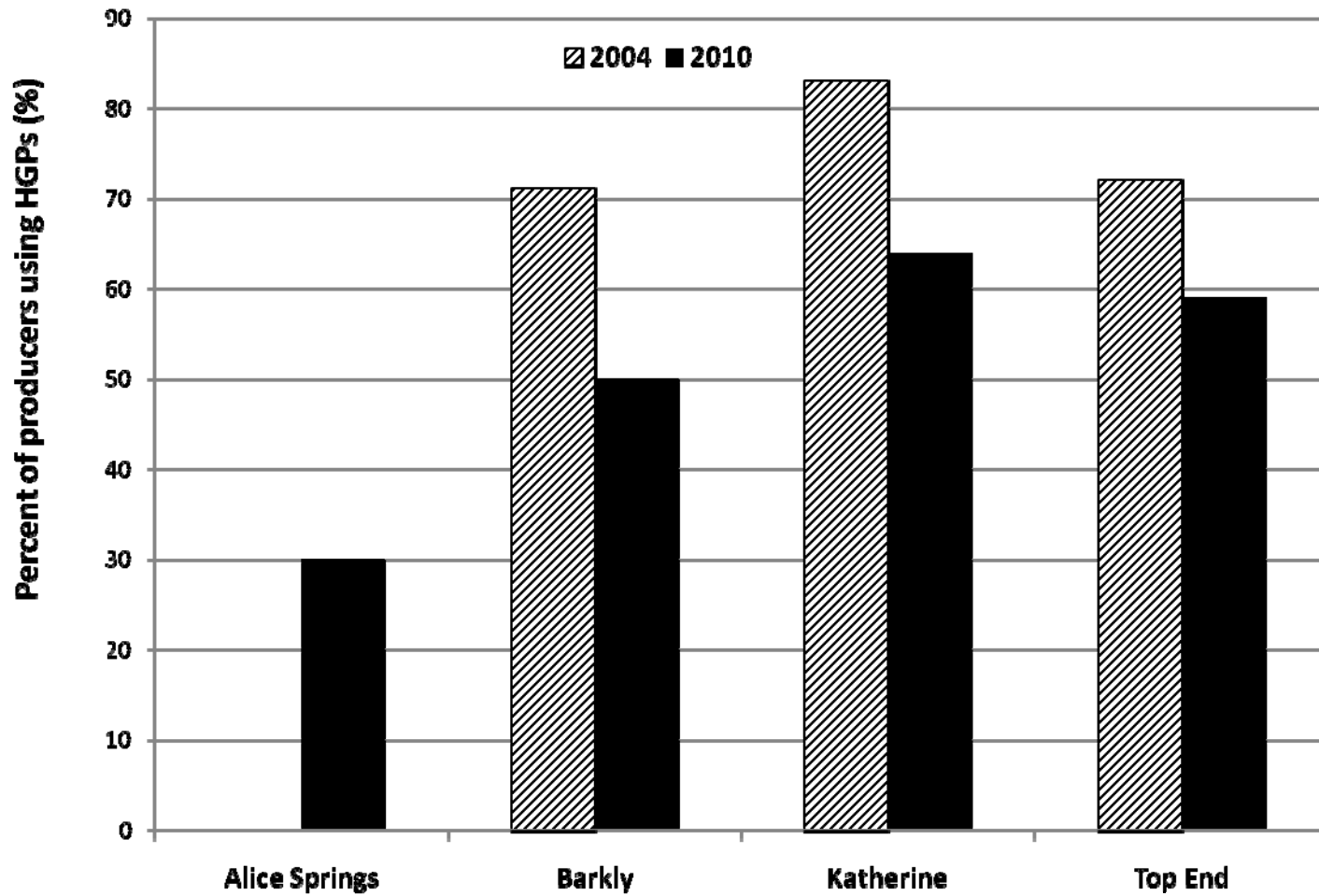


- ABCs of HGPs
- Hayfield Station
- Trial design
- Growth results

- \$\$\$
- HGP loss

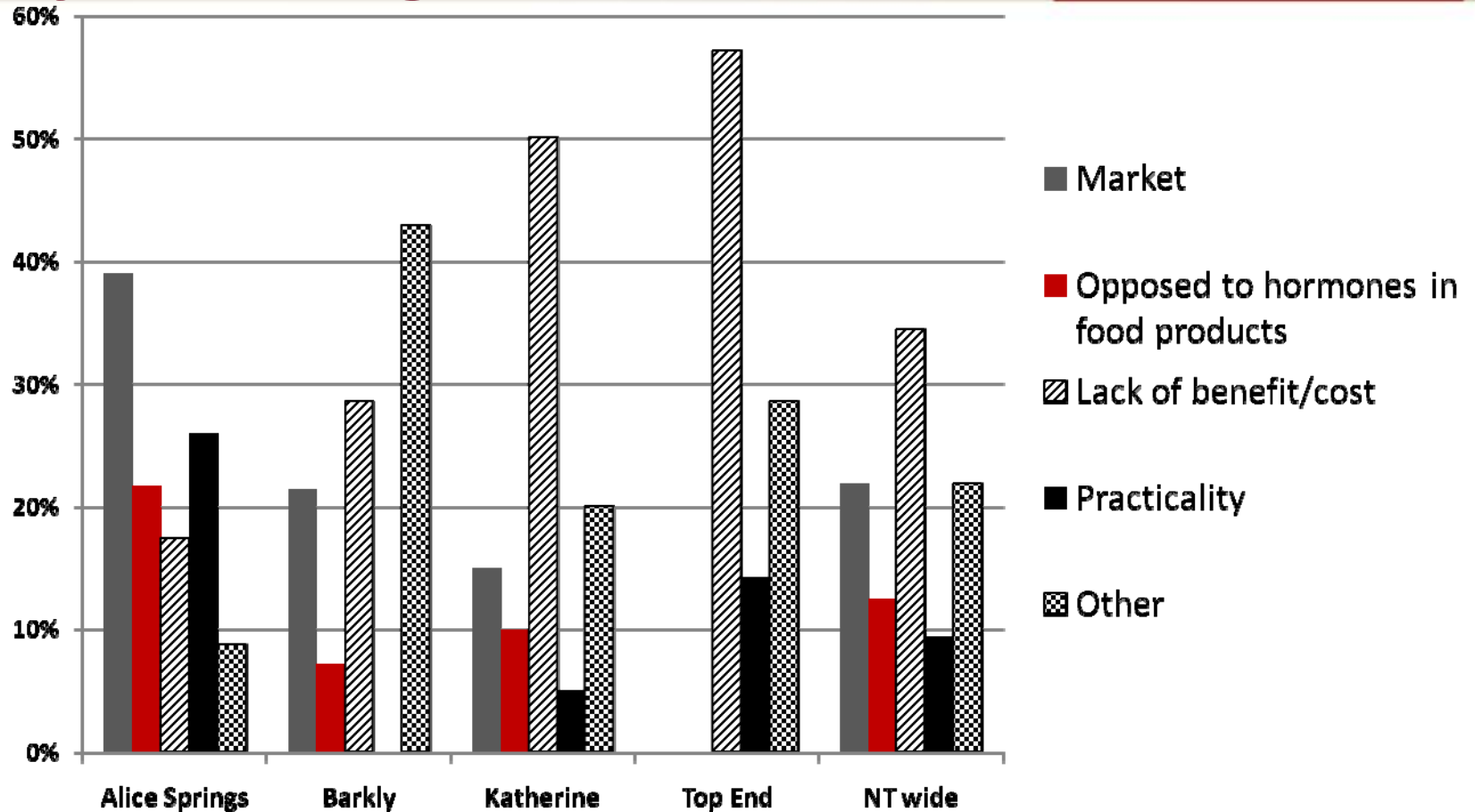
Do you currently use HGPs?

HGP use in the NT



If you don't use HGPs, why not?

Why not using HGP's?



HGPs boost growth!



Active ingredients



Androgens

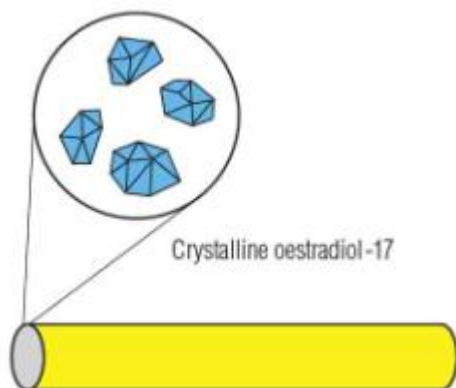
Testosterone propionate
Trenbolone acetate (TBA)

Vs.



Oestrogens

Oestradiol 17B
Oestradiol benzoate



Silicone rubber

Oestrogen
Compudose[®] products

Vs.



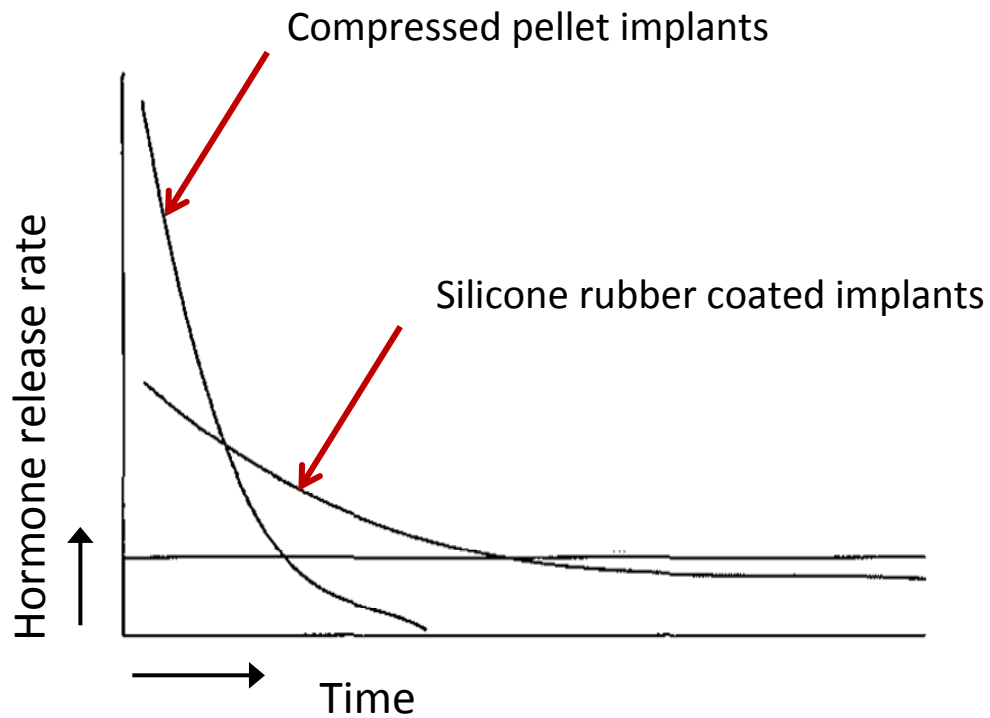
Compressed pellet

Combination
of oestrogen
and androgen

Source: Elanco

What type of HGP product do you use?

Functional pay-out period

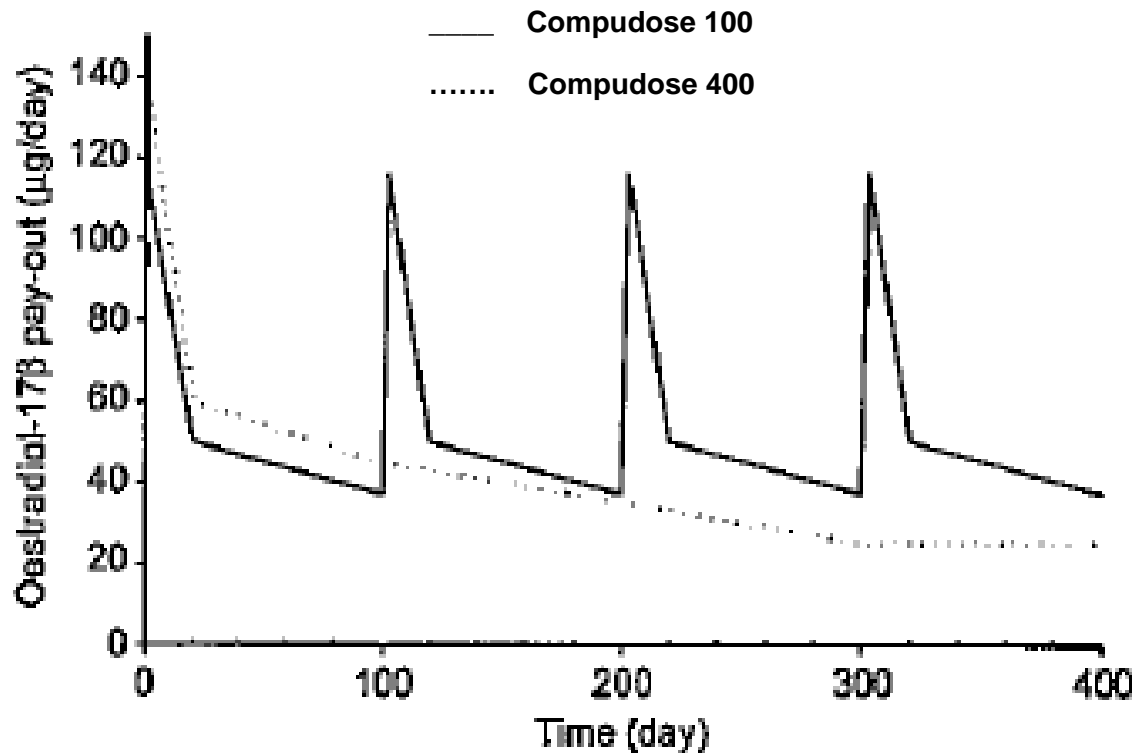


Source: Hunter (2009)

Principles of HGPs

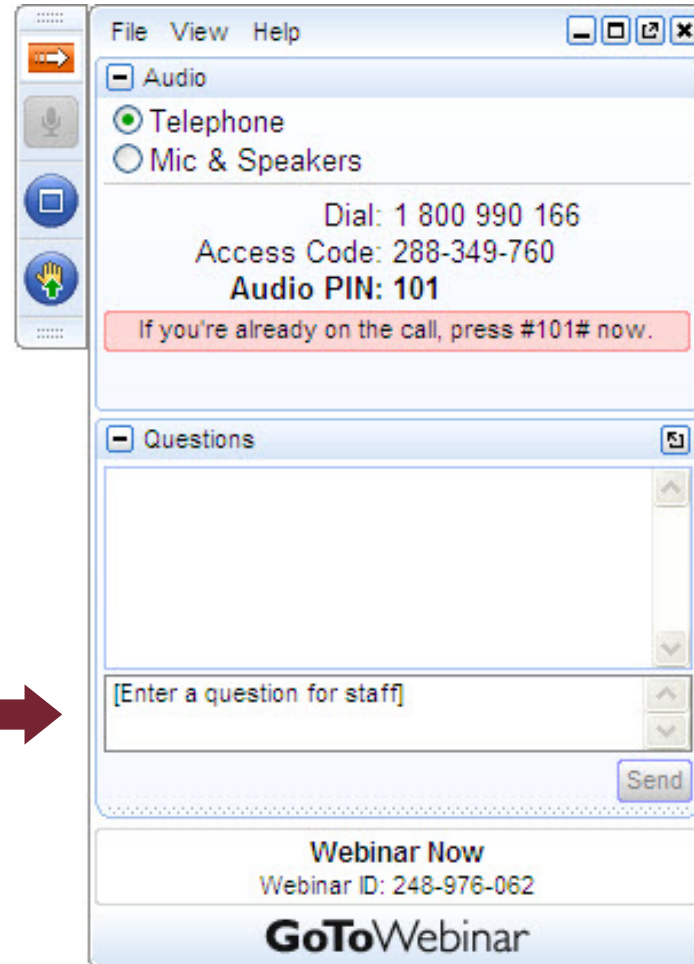


- Better base growth = better response to HGPs
- Once you start, don't stop
- Use more shorter acting implants



Source:
Hunter *et al*
(2000)

Questions, comments?



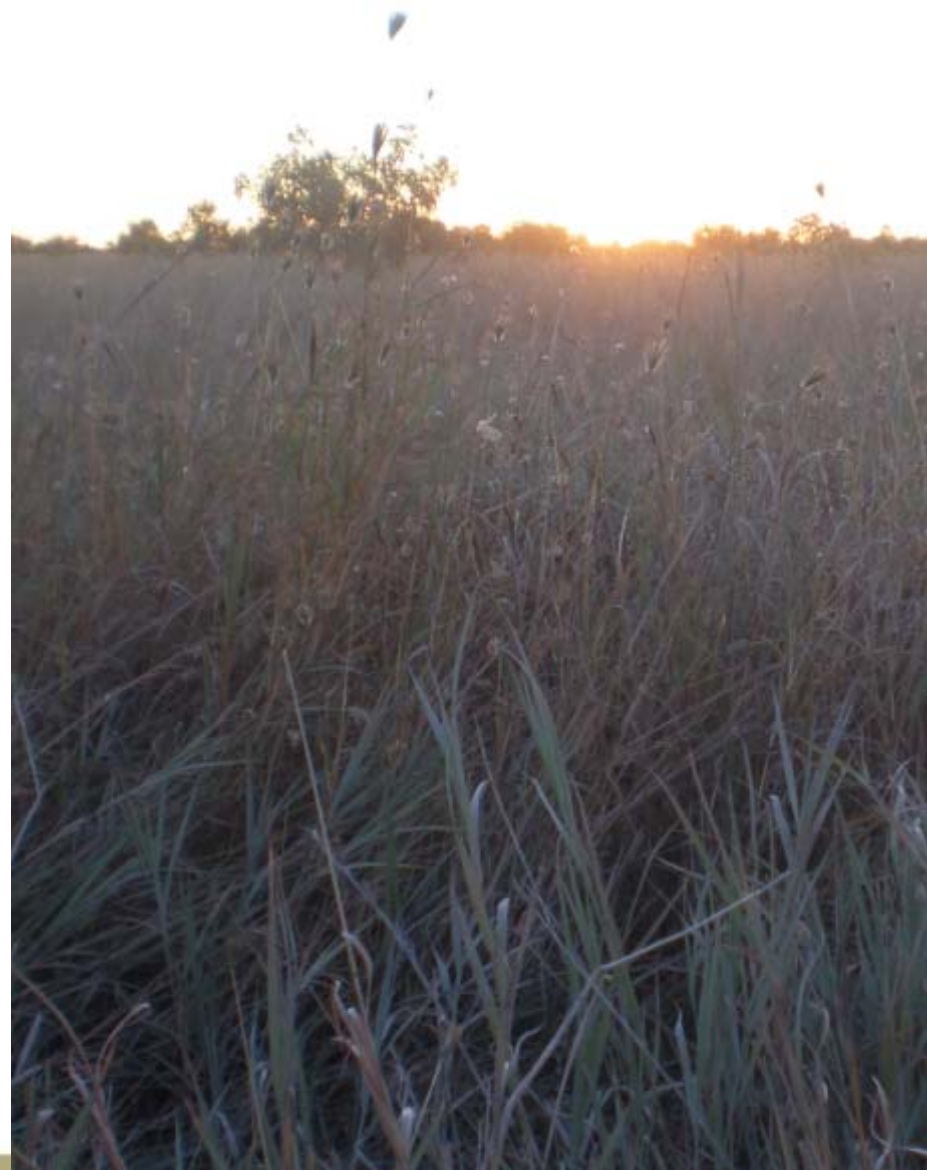
Type your questions
here anytime



Why a HGP trial?



- NT growth responses?
- Response during dry?
- Better response just over wet?
- Shorter acting versus longer acting better?



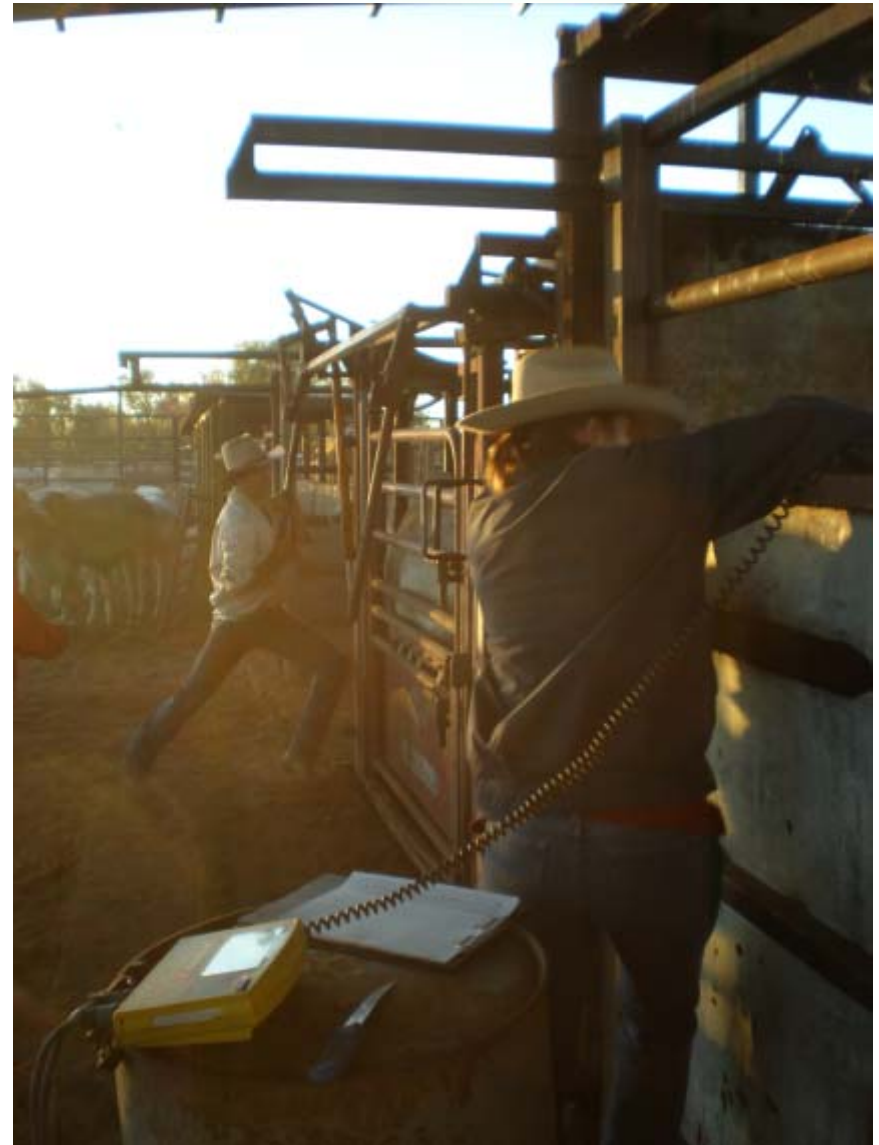
Hayfield HGP trial design



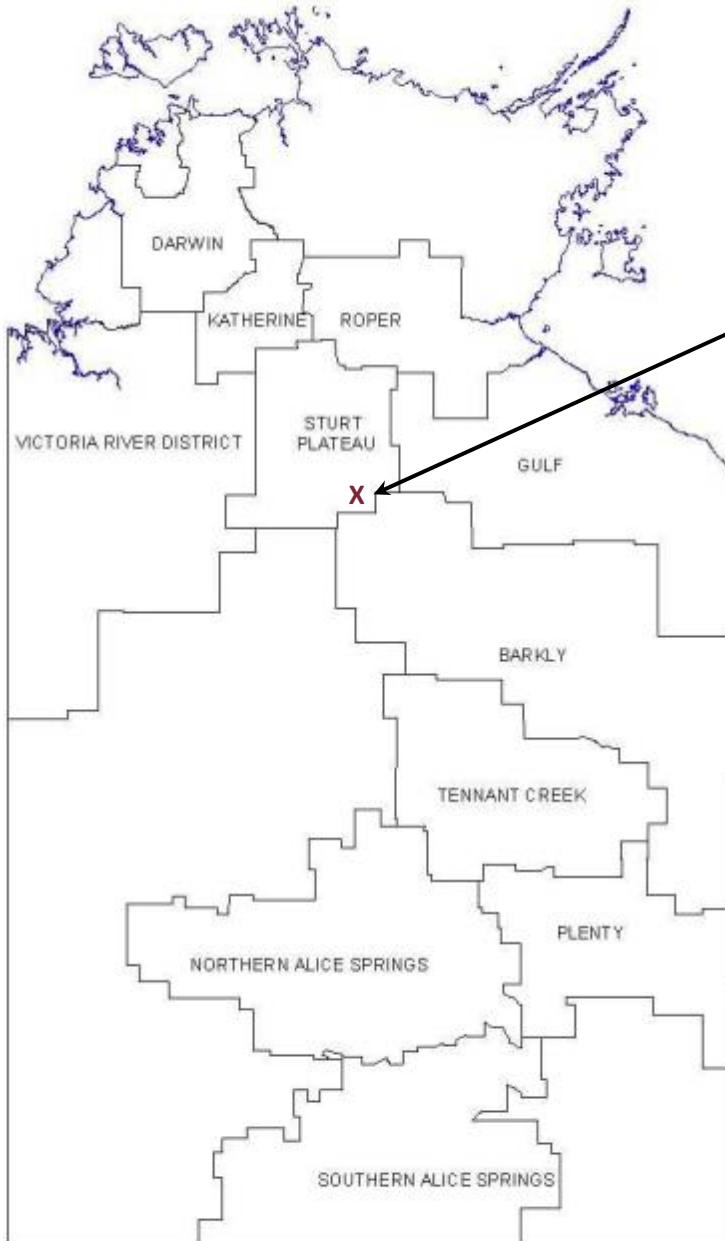
Compared:

- **400D** (at weaning R1)
- **2x200D** (1st at weaning R1, 2nd at end of dry)
- **Wet season 200D** (at end of dry)
- **No HGP**





Hayfield Station



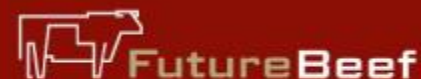
Hayfield Station







Descriptive statistics

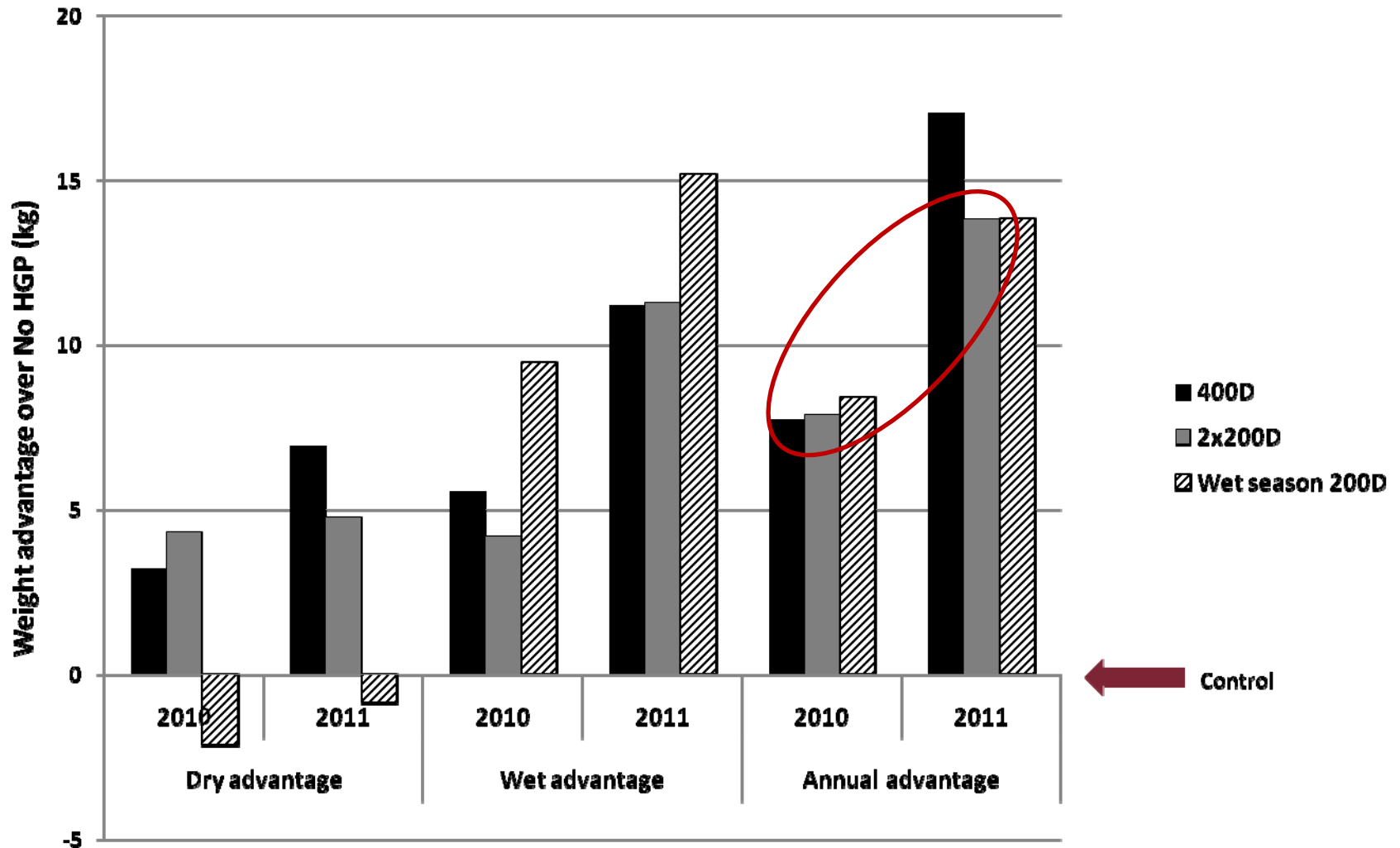


	2010 cohort	2011 cohort
Number inducted	471	492
Weaning wt (kg)	197	234
Dry ADG (kg/day)	-0.02	-0.05
Wet ADG (kg/day)	0.36	0.49
Annual ADG (kg/day)	0.21	0.30

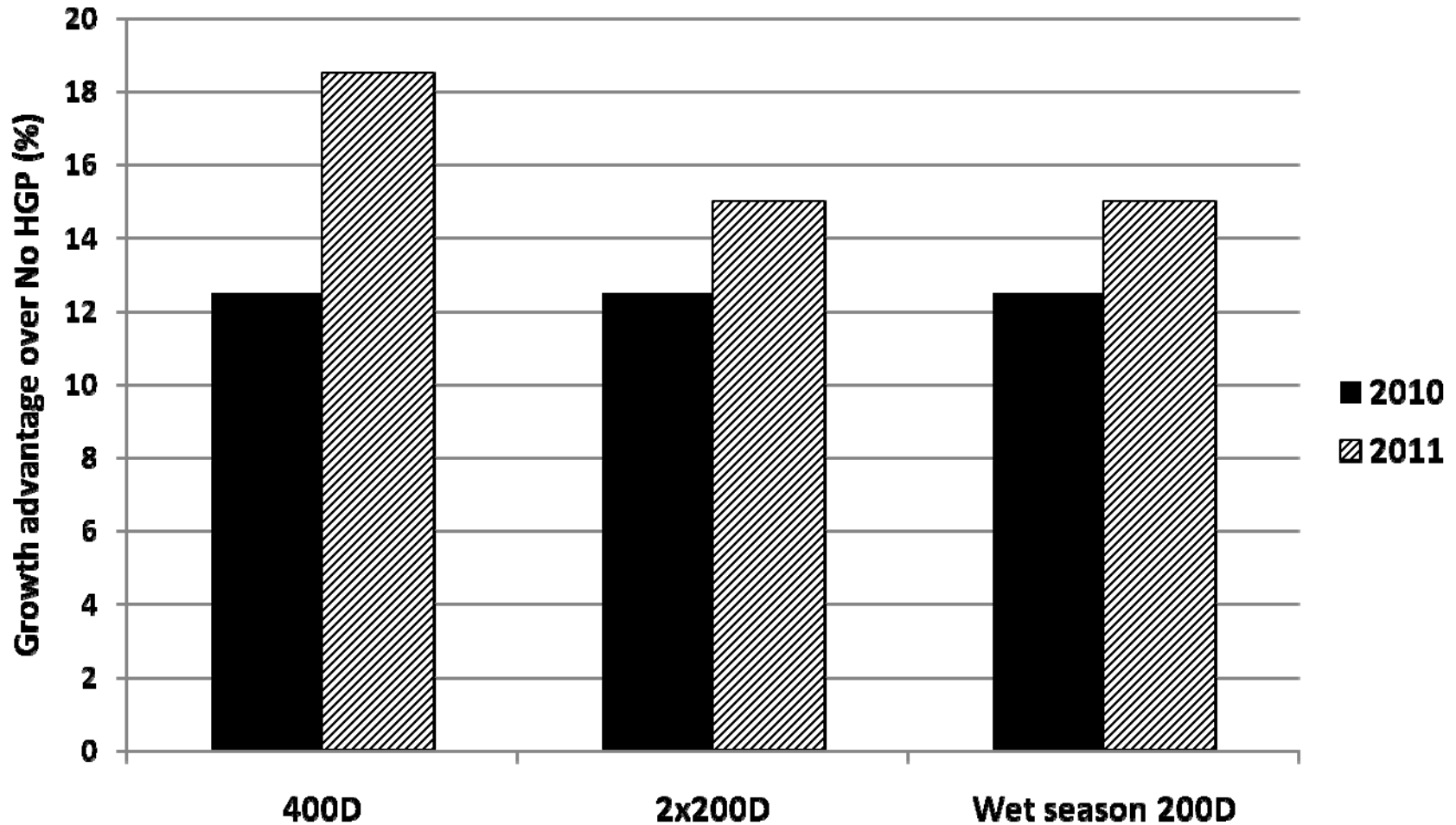
ADG = Average Daily Gain

So what did we find?

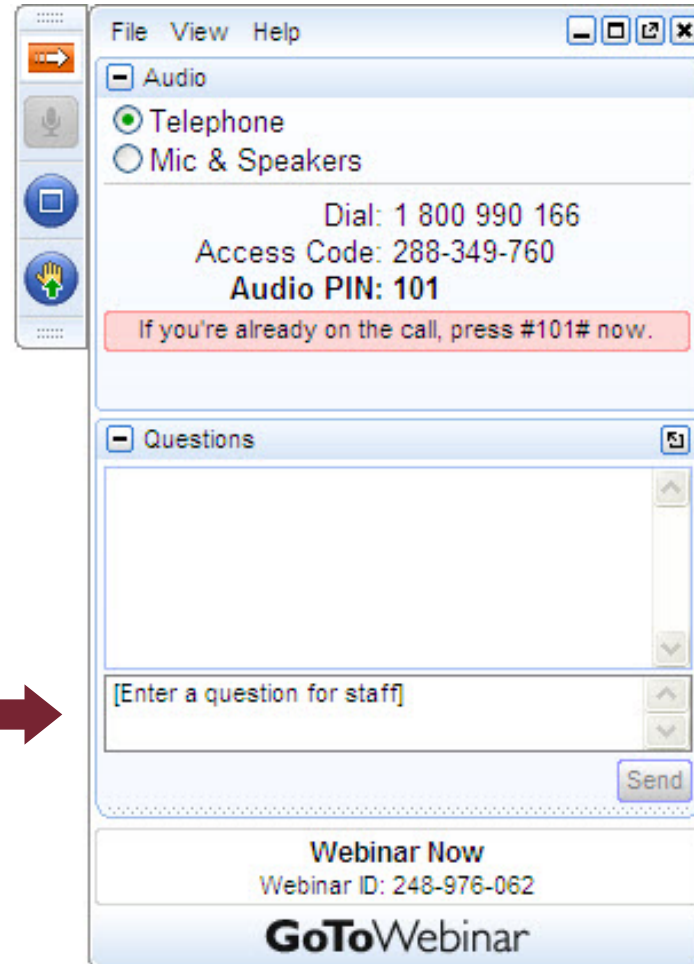
ALL HGP strategies resulted in significantly higher growth than the NO HGP group
BUT, no HGP strategy was significantly better than the other.



12% - 18% growth response!



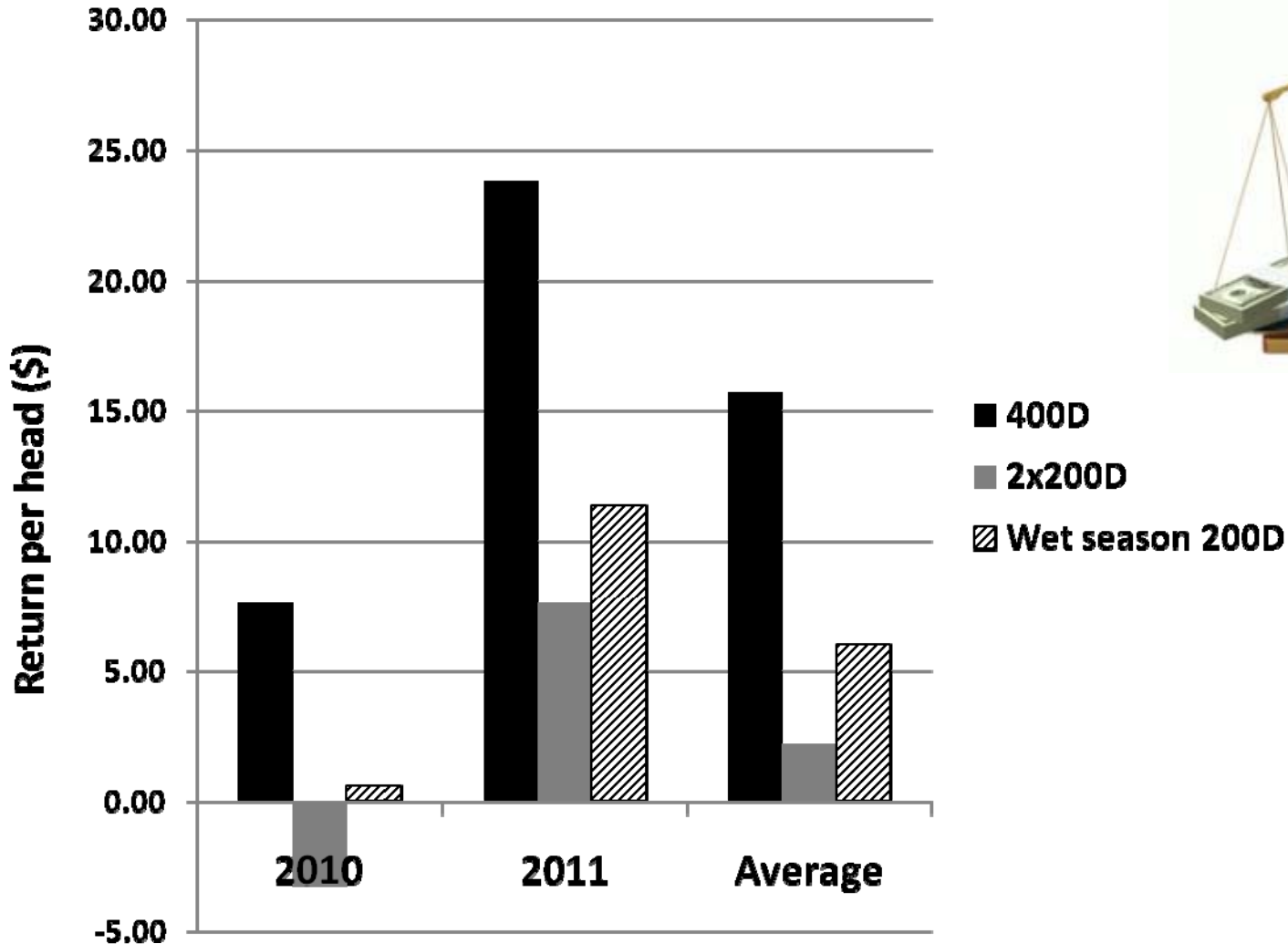
Questions, comments?



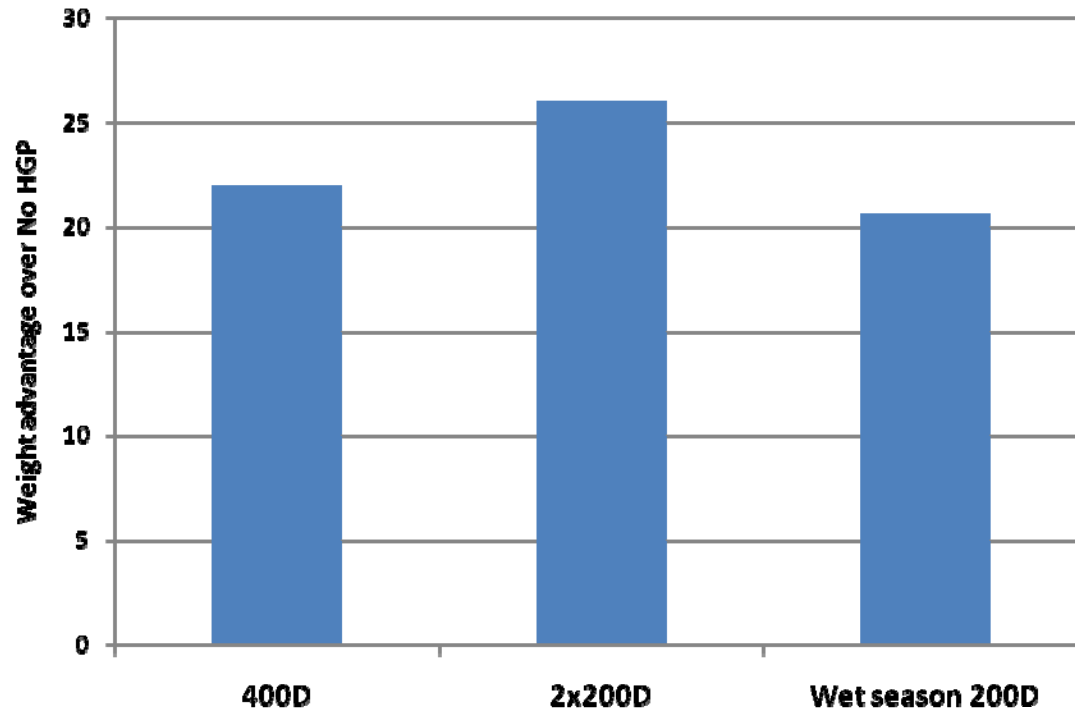
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Which HGP strategy won on \$\$?



What about whole of life?



Weight advantage of HGP groups in July 2012



Still a significant effect of HPG

Hygiene and placement critical!

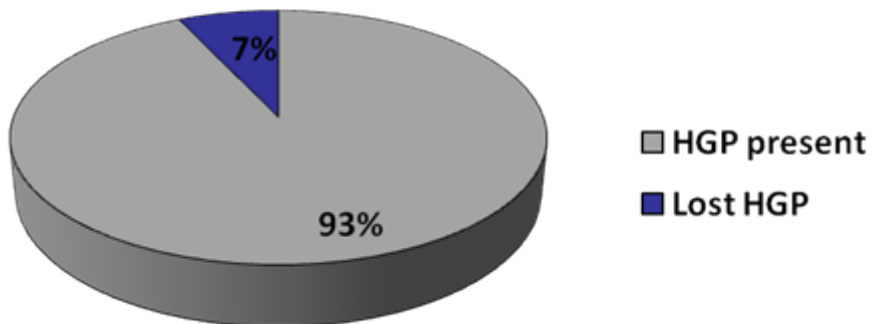


HGP loss was an issue

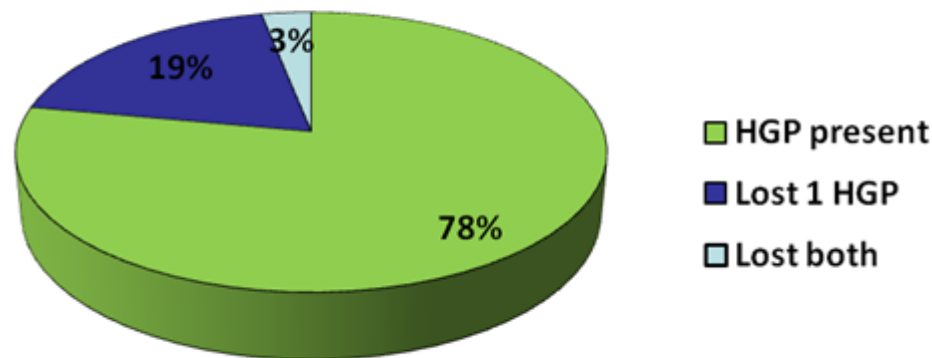


2010 HGP loss:

400D & Wet season 200D



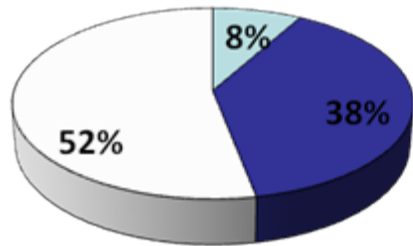
2x200D



2011 HGP loss data

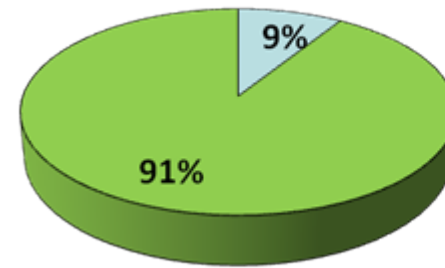


2x200D



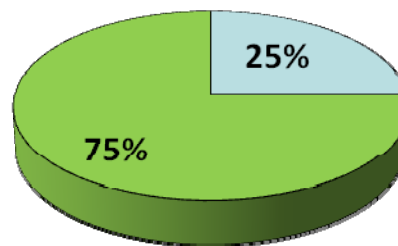
- Lost first HGP
- Lost second HGP
- Both HGPs present

400D



- Lost HGP
- HGP present

Wet season 200D



- Lost HGP
- HGP present

Correct implantation pays \$\$!



	400D	2x200D	Wet Season 200D
Cost of implanting (\$)	6.80	17.60	13.80
Lost \$weight gain per steer (\$)	22.50	19.80	19.80
Total opportunity cost per steer (\$)	29.30	37.40	33.60

More money in your back pocket!



Summary points



- 10-15% growth advantage of a HGP achievable
- The real pay out of the HGP happened over the wet season
- The dry season growth advantage paid for the HGP itself
- 2x200D strategy will not give a better return when growth is limited over the dry

Summary points



- Wet Season 200D as good as 400D in R1
- Extra musters to implant HGPs need careful thought
- The weight advantage was maintained after the HGP stopped acting
- Should consider effect of HGP when determining whether steers will blow out over wet

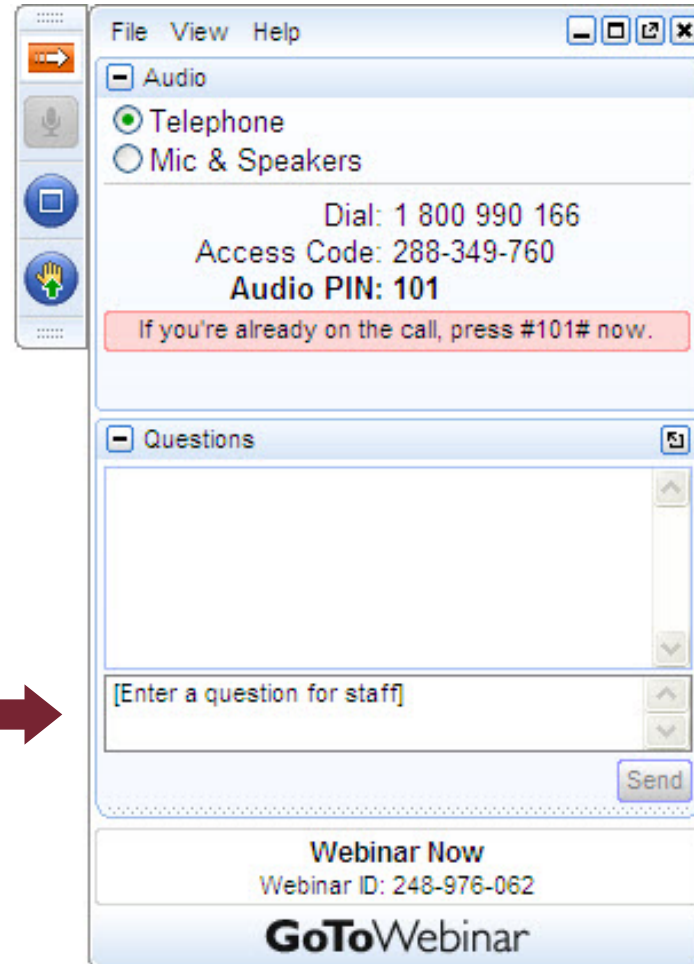
Qs still to be answered



- Other HGP strategies – implanting calves, combination implants,
- Whole of life – would re-implantation of lighter steers have been worth it?
- What are the major causes of HGP loss?



Questions, comments?



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Thank you!

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