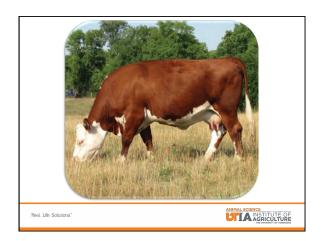
Investing in the Future: Heifer Development for Longevity

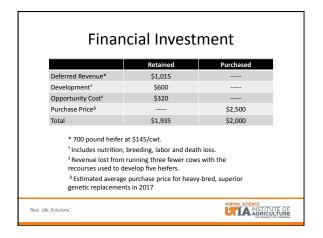
Justin Rhinehart Associate Professor Extension Beef Cattle Specialist

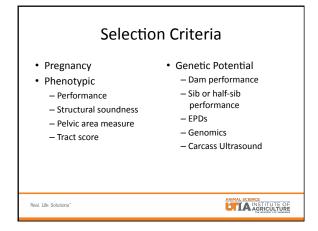
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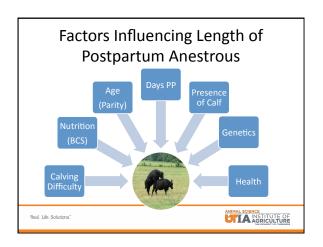




Time Investment Sixty day breeding season Gestation period for brood cow 285 Birth to weaning 210 Weaning to breeding 240 Gestation period for heifer 280 Calving until re-breeding 80 Rebreeding until pregnancy exam 45 Total time in days 1200 Days 40 Months (3+ Years) LIA INSTITUTE OF AGRICULTURE







Objectives

- · Breed early in the first breeding season
- Minimize calving difficulties
- Wean acceptable calves
- Breed early in the second breeding season
- · Optimize profit
- Improve genetics

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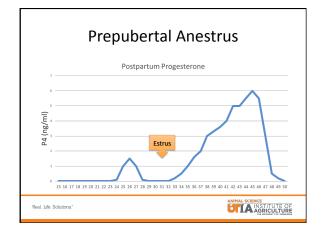


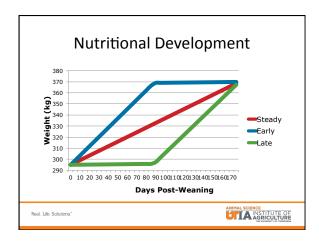
Factors Influencing Puberty

- Age
 - Minimum age needs to be reached before heifers will start to cycle
 - -Average age = 12 24 months
- Weight
 - -"Target Weight" (moving target)
- Breed type
- Heterosis

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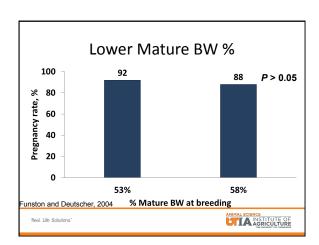


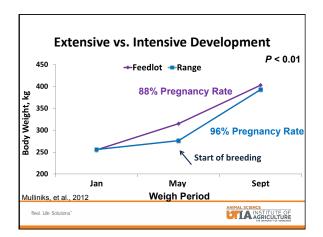
Nutritional Development

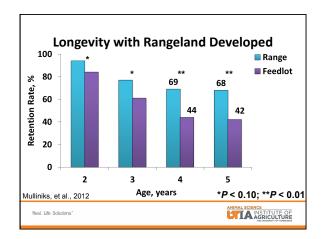
- Target Body Weight (1960s-1980s)
- Guidelines for replacement heifers to reach 60 to 65% of their mature BW by breeding (Review by Patterson et al., 1992)
- Lighter target BW at breeding reduced development costs while not impairing reproductive performance (Funston and Deutscher, 2004; Larson et al., 2011; Roberts et al., 2009; Funston and Larson, 2011; Mulliniks et al., 2013)

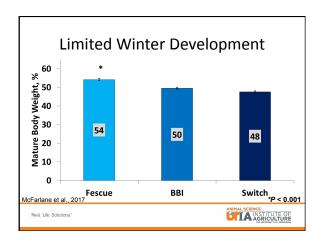
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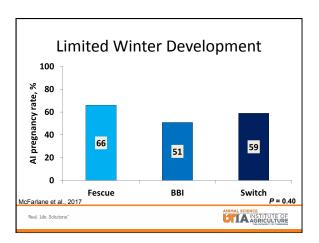


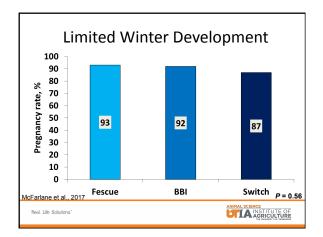












		Supp. Grass	Grass	Supp. Stalks	Stalks
Steers	Weaning Wt. (lb)	528	483	516	533
	Carcass Wt. (lb)	825	789	820	819
Ś	Quality Grade	82.5	77.8	86.8	64.4
Heifers	Weaning Wt. (lb)	478	454	479	480
	Age @ Puberty (Days)	352	372	347	360
	Preg. Rate (%)	90.5	77.1	87.8	83.3

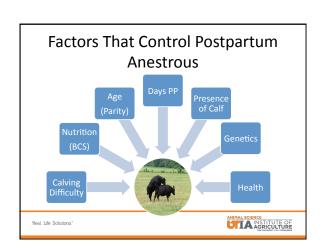


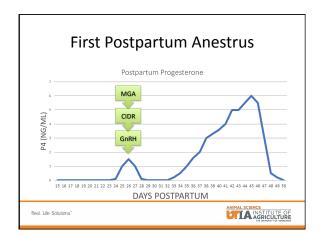




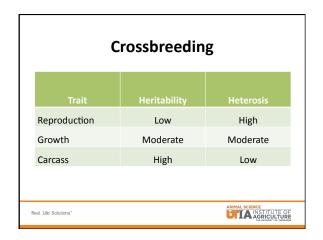


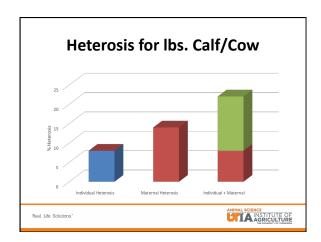
Post Breeding Management • Heifers should weigh approximately 85 to 90% of mature weight at calving -Usually requires 0.5 lb/day until calving* -Maintain BCS of 6 • More critical analysis of selection traits • Give special attention during calving • Maintain BCS 5 until re-breeding

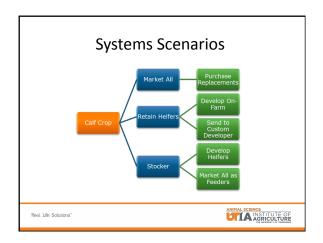


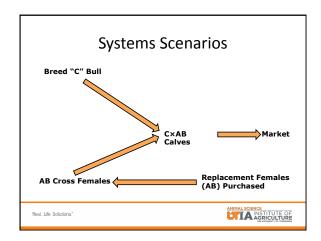












Summary

- Select and manage for early puberty
- Pregnancy check early
- Monitor during calving
- Maintain BCS after calving
- A bad slice or hook with your driver makes the short game more difficult

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