

Artificial Insemination vs. Herd Bull

A cattle rancher needs to breed 50 cows each year and is contemplating using Artificial Insemination or Herd Bulls. Here are the facts:

Artificial Insemination

Pregnancy Rate:	90%
<i>Number of cows that are pregnant at the end of the breeding season</i>	
A.I. Pregnancy:	55%
<i>Number of cows pregnant to A.I. sires at the end of the breeding season</i>	
Synch Cost:	\$900.00
<i>1 \$10.00 CIDR, 2 doses GnRH @ \$2.50 per dose (\$5.00 per cow) and 1 dose Prostaglandin @ \$3.00 per dose per cow</i>	
Semen Cost	\$1000.00
<i>\$20.00 per cow bred, 100% of cows are inseminated, 50 units x \$20.00</i>	
Labor Cost	\$400.00
<i>50 cows receives 3 trips through chute for CIDR in, CIDR out, then AI</i>	
A.I. Total Cost	\$2300.00
<i>(Synch cost, semen cost and labor cost)</i>	
Bull Cost (1 bull @ \$1628.50 each year)	\$1628.00
<i>\$4,500 each + \$1.50/day feed for 2 yrs (\$1095.00) = \$5595</i>	
<i>\$5595 - \$2340 salvage = \$3255 / 2 years = \$1628</i>	
<i>(salvage of 1800 lb. bull @ \$0.90 / lb.)</i>	
Total Breeding Cost:	\$3928.00

Added Value

Age Advantage:	\$3413.00
<i>postpartum days are shortened per cow by 13 days when compared to natural breeding. 13 days x 45 cows = 585 calf days, calves gain 2.7 lbs. per day, 585 calf days x 2.7 lbs. = 1580 extra lbs @ \$2.16/lb = \$3413</i>	
Genetic Advantage:	\$907.00
<i>A.I. sired calves can add 15 lbs. over average weaning weight. 28 calves x 15 lbs. = 420 lbs. x \$1.60/lb. = \$907</i>	
Total A.I Advantage:	\$4320.00
<i>(\$5054.40 + \$1320.00)</i>	

Total cost per 45 cows **-\$392.00**
Total Breeding Cost (\$3928.00) - A.I Advantage (\$4320.00) = -\$392.00

Profit per Calf (45) **\$8.71 per calf**

Herd Bull

Pregnancy Rate:	90%
<i>Number of cows that are pregnant at the end of the breeding season</i>	
A.I. Pregnancy:	0
Synch Cost:	\$0.00
Semen Cost	\$0.00
Labor Cost	\$0.00
A.I. Total Cost	\$0.00
Bull Cost (2 bulls @ \$1628.50 each year)	\$3257.00
<i>\$4,500 each + \$1.50/day feed for 2 yrs (\$1095.00) = \$5595</i>	
<i>\$5595 - \$2340 salvage = \$3255 / 2 years = \$1628</i>	
<i>(salvage of 1800 lb. bull @ \$0.90 / lb.)</i>	
Total Breeding Cost:	\$3257.00

Added Value

Age Advantage:	\$0.00
Genetic Advantage:	\$0.00
Total A.I Advantage:	\$0.00
Total cost per 50 cows	\$3257.00

Cost per Calf (45) **\$72.33 per calf**

Total Premium = \$81.04 per calf

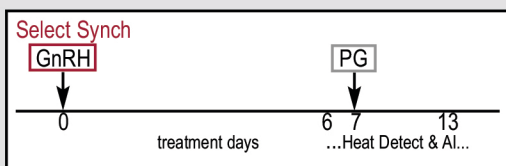
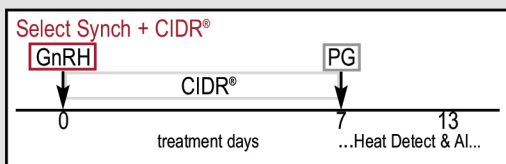
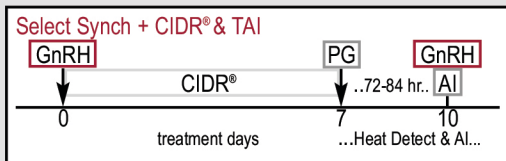


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Why Should I Synchronize?

Protocols for Cows



Protocols for Heifers



Getting the most out of your reproduction program is vital in today's cattle industry. Recently developed synchronization systems for cows and heifers are more reliable, more productive and more profitable than ever before. Synchronizing cattle reduces costs, saves labor and adds value to both your breeding animals and the calves you produce, generating rewards that mean greater profit potential.

Beef Synchronization programs get a high percentage of pregnancies in the 1st week of the breeding season resulting in:

- **Increased Pregnancy Rates**
 - By increasing the potential number of heats during the breeding season.
 - Induces a fertile estrus in many anestrous cows.
 - More days postpartum when the next breeding season begins.
- **Increased Weaning Weights**
 - earlier-born calves are heavier at weaning time.
- **Increased Uniformity of your Calf Crop**
 - groups of same age, same weight and same color calves are worth more!
- **More Predictable Performance**
 - using Proven A.I. Genetics allows you to utilize sires that have Proven Performance.
- **Increased Cow Productivity**
 - Heifers that are born early in the calving season are more likely to conceive early in their first breeding season and subsequent breeding seasons, wean heavier calves and are more profitable during their lifetime than their later-born contemporaries.



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