



Estrus Synchronization Planner

synch 12

Producer Name: Joe Cowman
Address: Sioux Falls, SD
Town: _____
Phone Number: _____
Group: _____
Prepared by: Sandy Johnson
Phone Number: _____

Inputs	Tips
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Date to start breeding:	6/1/2013	(Example: 6/1/2010)
Time of day you want to breed:	7:00 PM	
Detection-Insemination type:	1	1 = Estrus AI, 2 = Estrus AI & Clean-up AI, 3 = Fixed-Time AI
Estrus synchronization system:	6	Select number from list of systems below.
Days from last AI to bull turn in:	9	
Trips through the working facility:	2	
Cost Comparison - <i>optional</i>	Alternative 1:	15
	Alternative 2:	34

Heat detect & Breed

Cow Systems

7 = Select Synch
 14 = Select Synch + CIDR
 34 = PG 6-Day CIDR with E-AI

Less Preferred Systems

1 = 1 Injection Prostaglandin (prior estrus detection)
 2 = 1 Injection Prostaglandin (no prior estrus detection)
 3 = 2 Injection Prostaglandin (no prior estrus detection)
 15 = 7-Day CIDR+PG

Heat detect & Breed

Heifer Systems

1 = 1 Injection Prostaglandin (prior estrus detection)
 6 = MGA + Prostaglandin
 15 = 7-Day CIDR+PG

Less Preferred Systems

3 = 2 Injection Prostaglandin (no prior estrus detection)
 12 = 7-11 Synch
 14 = Select Synch + CIDR
 30=14 - Day CIDR+PG with E-AI
 34 = PG 6-Day CIDR with E-AI

		Daily Lbs./Hd.	Cost / Lb			
Head in group:	100	Forage:	20	\$0.060	PG (\$/dose):	\$2.50
Labor Estimate:	62.0 <i>hours</i>	Grain:	4	\$0.110	GnRH (\$/dose):	\$2.60
Labor Charge:	\$13.50 <i>\$/hour</i>	MGA:	1	\$0.200	CIDR (\$/insert):	\$10.50
Yardage:	\$0.35 <i>\$/hd/day</i>	Supplement:	0.25	\$0.150	Semen (\$/unit):	\$25.00

Defined Charges:	Name of Item:	No.Units	Cost - \$ per Unit:
	Estroject	100	\$1.10
	Name of Item:	No.Units	Cost - \$ per Unit:
	Name of Item:	No.Units	Cost - \$ per Unit:

System: 6 = MGA + Prostaglandin

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Date to start breeding: 6/1/2013
 Clean-up bull turn in date: 6/16/2013
 Start of calving season: 3/9/2014

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6 = MGA + Prostaglandin

Estimated average number of times per head through the working facility: 2

Comments

This system is highly recommended for heifers and works effectively in postpartum cows.
 Estrus detection should begin at the time of PG administration.
 Majority will exhibit estrus between 48 and 96 hours after PG.
 Daily intake during MGA feeding is critical, may require drylot feeding.
 Deliver MGA in either a well mixed ration or a supplement with not less than 3-5 lbs fed per head per day.
 For either MGA feeding methodology provide adequate bunk space(12 in. for TMR, 18 in. for MGA + grain only).
 Immediate addition of clean-up bulls could lead to questions about parentage.

Day of the		
Date of Activity	Week	Description of Activity
04/30/13	Tuesday	Start feeding Melengestrol Acetate (MGA) at .5 mg/hd/day. Continue feeding until 5/13/2013.
05/13/13	Monday	Last day to feed MGA at .5 mg/hd/day.
05/15/13	Wednesday	Large numbers of females will show heat the next 4 days - DO NOT BREED!
06/01/13	Saturday	Inject Prostaglandin (PG) to all females. Start heat detection. Breed females AI 10-14 hours after standing heat.
06/02/13	Sunday	Continue heat detection. Breed females AI 10-14 hours after standing heat.
06/03/13	Monday	Peak heat at 60 - 72 hours after PG. Continue heat detection. Breed females AI 10-14 hours after standing heat.
06/07/13	Friday	Last day of heat detection. Breed females AI 10-14 hours later if showing standing heat.
06/16/13	Sunday	Turn clean up bulls in with females. Immediate addition of clean-up bulls could lead to questions about parentage.

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06/26/13		Wednesday					
Cost Comparison of Three Selected Systems						33=PG - 6 Day CIDR with E-AI and Cleanup AI	
				6 = MGA + Prostaglandin		15 = 7-Day CIDR+PG	
Cost Analysis Item:	Units	Cost/Unit	Total Cost	vs.	Total Cost	vs.	Total Cost
PG Cost	100	\$2.50	\$250.00		\$250.00		\$425.00
GnRH Cost		\$2.60					\$182.00
MGA Supplement	1400	\$0.20	\$280.00				
CIDR Cost		\$10.50			\$1,050.00		\$735.00
Synchronization Cost Subtotal			\$530.00		\$1,300.00		\$1,342.00
Detect/Mgt. Labor	62.0	\$13.50	\$836.62		\$903.66		\$966.05
Semen	100	\$25.00	\$2,500.00		\$2,500.00		\$2,500.00
Estroject	100	\$1.10	\$110.00		\$110.00		\$110.00
AI Cost Subtotal			\$3,446.62		\$3,513.66		\$3,576.05
Total Cost (not including feed & yardage)			\$3,976.62		\$4,813.66		\$4,918.05
Cost / Female Synchronized			\$39.77		\$48.14		\$49.18
Days in Drylot				39			
Forage (lbs)	78,000		\$4,680.00				
Grain (lbs)	15,600		\$1,716.00				
Yardage (hd-day)	3,900		\$1,365.00				
Supplement (lbs)	975		\$146.25				
Feed & Yardage Cost Subtotal			\$7,907.25				
Total Cost			\$11,883.87		\$4,813.66		\$4,918.05

This feed & yardage cost does not credit in the cost of maintaining the female on pasture.

\$/Synch AI = cost per successful AI pregnancy for the selected system under the given success rate.

Cost - Response Analysis:		6 = MGA + Prostaglandin				
Estrous Response Rate		Conception Rate of those Responding to Synchronization				
		45%	55%	65%	75%	85%
75%	% AI Pregnant	33.8%	41.3%	48.8%	56.3%	63.8%
	\$/Synch AI preg.	\$99.31	\$81.25	\$68.75	\$59.58	\$52.57
80%	% AI Pregnant	36.0%	44.0%	52.0%	60.0%	68.0%
	\$/Synch AI preg.	\$96.57	\$79.01	\$66.86	\$57.94	\$51.13
85%	% AI Pregnant	38.3%	46.8%	55.3%	63.8%	72.3%
	\$/Synch AI preg.	\$94.16	\$77.04	\$65.19	\$56.50	\$49.85
90%	% AI Pregnant	40.5%	49.5%	58.5%	67.5%	76.5%
	\$/Synch AI preg.	\$92.02	\$75.29	\$63.70	\$55.21	\$48.71
95%	% AI Pregnant	42.8%	52.3%	61.8%	71.3%	80.8%
	\$/Synch AI preg.	\$90.10	\$73.72	\$62.37	\$54.06	\$47.70

**This cost analysis does not include the feed & yardage cost subtotal which would be - \$79.07

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10/5/12

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4/28/2013	4/29/2013	4/30/2013	5/1/2013	5/2/2013	5/3/2013	5/4/2013
		* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day
5/5/2013	5/6/2013	5/7/2013	5/8/2013	5/9/2013	5/10/2013	5/11/2013
* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day
5/12/2013	5/13/2013	5/14/2013	5/15/2013	5/16/2013	5/17/2013	5/18/2013
* MGA @ 0.5 mg/hd/day	* MGA @ 0.5 mg/hd/day		* Many females in heat next 4 days. DO NOT BREED!			
5/19/2013	5/20/2013	5/21/2013	5/22/2013	5/23/2013	5/24/2013	5/25/2013
5/26/2013	5/27/2013	5/28/2013	5/29/2013	5/30/2013	5/31/2013	6/1/2013
						* Detect Estrus & Breed * Inject PG - all females
6/2/2013	6/3/2013	6/4/2013	6/5/2013	6/6/2013	6/7/2013	6/8/2013
* Detect Estrus & Breed	* Detect Estrus & Breed * Peak Estrus	* Detect Estrus & Breed	* Detect Estrus & Breed	* Detect Estrus & Breed	* Detect Estrus & Breed	
6/9/2013	6/10/2013	6/11/2013	6/12/2013	6/13/2013	6/14/2013	6/15/2013