

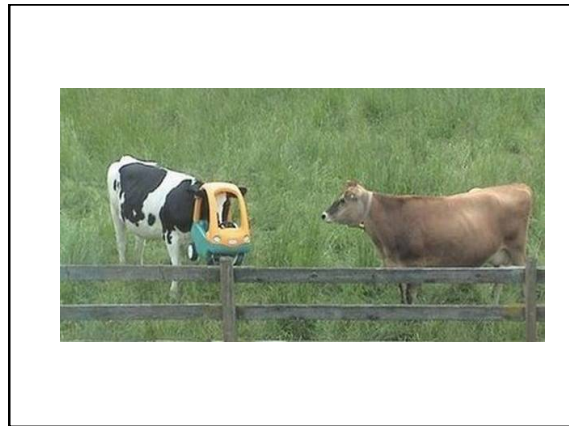
Estrus Synchronization Planner

Beef Reproduction Task Force synch 12


Authors and Programmers

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Program | Planner Worksheet | Calendar | Print Out | Tips & Overview | notes | 100%




Estrus Synchronization Planner



Free download at
http://iowabeefcenter.org/estrus_synch.html
 See page 182 of proceedings

 **Iowa Beef Center**

Estrus Synchronization Planner

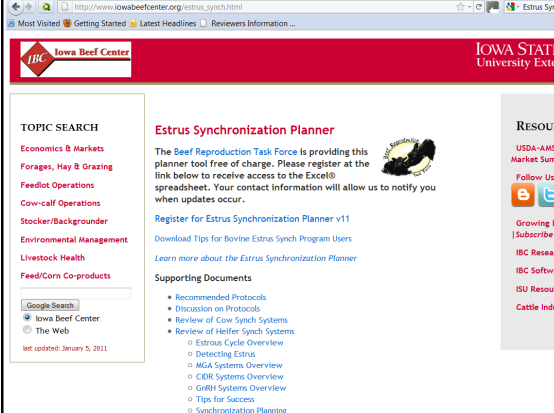


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IBC Iowa Beef Center

Features

- Recommended systems for cows & heifers
- Select systems by type
 - Heat detect & AI systems
 - Heat detect & cleanup AI systems
 - Fixed-Timed AI Systems
- List of daily activities
- Generates Barn Calendar
- Cost per AI pregnancy
- Support materials



Estrus Synchronization Planner

The Beef Reproduction Task Force is providing this planner tool free of charge. Please register at the link below to receive access to the Excel® spreadsheet. Your contact information will allow us to notify you when updates occur.

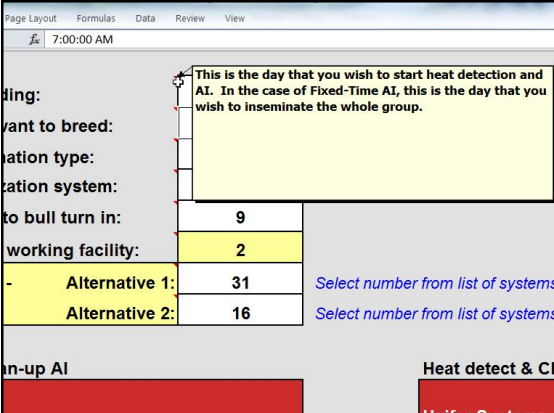
Register for Estrus Synchronization Planner v11
 Download Tips for Bovine Estrus Synch Program Users
 Learn more about the Estrus Synchronization Planner

Supporting Documents

- Recommended Protocols
- Discussion on Protocols
- Review of Cow Synch Systems
- Review of Heifer Synch Systems
 - Estrous Cycle Overview
 - Detecting Estrus
 - MGA Systems Overview
 - CIDR Systems Overview
 - GnRH Systems Overview
 - Tips for Success
 - Synchronization Planning

Date to start breeding:	6/1/2013	(Example: 6/1/2010)
Time of day you want to breed:	7:00 AM	>>Clean-up AI between 6:00 AM and 8:00 AM
Detection-Insemination type:	2	1 = Estrus AI, 2 = Estrus AI & Cleanup AI
Estrus synchronization system:	26	Select number from list of systems
Days from last AI to bull turn in:	9	Select number from list of systems
Trips through the working facility:	2	Select number from list of systems
Cost Comparison - optional	Alternative 1: 31 Alternative 2: 16	Select number from list of systems

Heat detect & Clean-up AI		Heat detect & AI
Cow Systems		Heifer Systems
16 = Select Synch + CIDR with E-AI and Cleanup AI		16 = Select Synch + CIDR with E-AI and Cleanup AI
19 = Select Synch with E-AI and Cleanup AI		26 = MGA + PG with E-AI and Cleanup AI
33 = PG 6-Day CIDR with E-AI and Cleanup AI		31 = 14 - Day CIDR with E-AI and Cleanup AI



7:00:00 AM

This is the day that you wish to start heat detection and AI. In the case of Fixed-Time AI, this is the day that you wish to inseminate the whole group.

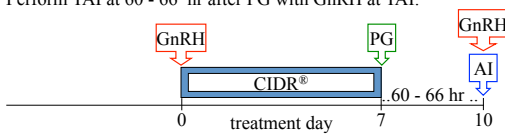
Time of day you want to breed:	7:00 AM
Detection-Insemination type:	2
Estrus synchronization system:	26
Days from last AI to bull turn in:	9
Trips through the working facility:	2
Cost Comparison - optional	Alternative 1: 31 Alternative 2: 16

Date to start breeding:	5/29/2013	(Example: 6/1/2010)
Time of day you want to breed:	7:00 AM	Last PG injection given 6:00 AM
Detection-Insemination type:	3	1 = Estrus AI, 2 = Estrus AI & Cleanup AI, 3 = Estrus AI & Cleanup AI & Fixed-Time AI
Estrus synchronization system:	22	Select number from list of systems
Days from last AI to bull turn in:	9	Select number from list of systems
Trips through the working facility:	3	Select number from list of systems
Cost Comparison - optional	Alternative 1: 29 Alternative 2: 10	Select number from list of systems

Fixed-Time AI		Fixed-Time AI
Cow Systems		Heifer Systems
22 = 7 - Day CO-Synch + CIDR with Fixed-Time AI - 66		23 = CO-Synch + CIDR with Fixed-Time AI - 66
29 = 5 - Day CO-Synch + CIDR with Fixed-Time AI		27 = MGA + PG with Fixed-Time AI - 66
		32 = 14 - Day CIDR with Fixed-Time AI
Less Preferred Systems		Less Preferred Systems

7-day CO-Synch + CIDR® - Cows

Perform TAI at 60 - 66 hr after PG with GnRH at TAI.



Timeline: 0 (GnRH), 0-7 (CIDR), 7 (PG), 10 (AI)

7-day CO-Synch + CIDR® - Cows

Perform TAI at 60 - 66 hr after PG with GnRH at TAI.

0 treatment day 7 10

05/26/13 Sunday Remove the CIDR device from each female. Inject Prostaglandin (PG) to all females at: 1:00 PM

05/29/13 Wednesday Inject Gonadotropin Releasing Hormone (GnRH) to all females. Breed all females at time of GnRH injection at: 7:00 AM

06/07/13 Friday Turn clean up bulls in with females. Immediate addition of clean-up bulls could lead to questions a

Print Out Tab

Date to start breeding: 5/29/2013 (Example: 6/1/2010)

Time of day you want to breed: 7:00 AM

Detection-Insemination type: 1 1 = Estrus AI, 2 = Estrus AI & Clean-up /

Estrus synchronization system: 7 Select number from list of systems below.

Days from last AI to bull turn in: 9

Trips through the working facility: 3

Cost Comparison - Alternative 1: 14 Select number from list of systems below.
optional Alternative 2: 34 Select number from list of systems below.

Heat detect & Breed

Cow Systems
7 = Select Synch
4 = Select Synch + CIDR
34 = PG 6-Day CIDR with E-AI

Heifer Systems
1 = 1 Injection Prostaglandin
6 = MGA + Prostaglandin
15 = 7-Day CIDR+PG

Less Preferred Systems
1 = 1 Injection Prostaglandin (prior estrus detection)
2 = 1 Injection Prostaglandin (no prior estrus detection)
3 = 2 Injection Prostaglandin

BEEF COW PROTOCOLS - 2011

HEAT DETECTION

Select Synch

Select Synch + CIDR®

PG 6-day CIDR®

HEAT DETECT & TIME AI (TAI)

Select Synch & TAI

Select Synch + CIDR® & TAI

PG 6-day CIDR® & TAI

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

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

Estrus Synchronization Planner

Producer Name: Cows R Us Ranch 8/29/11

Address: USA

Phone Number: Sandy Johnson

Group: Sandy Johnson

Date to start breeding: 8/15/2011

Clean-up bull turn in date: 8/17/2011

Start of calving season: 5/22/2012

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7/31/2011	8/1/2011	8/2/2011	8/3/2011	8/4/2011	8/5/2011	8/6/2011
8/7/2011	8/8/2011	8/9/2011	8/10/2011	8/11/2011	8/12/2011	8/13/2011
8/14/2011	8/15/2011	8/16/2011	8/17/2011	8/18/2011	8/19/2011	8/20/2011

* Insert CIDR device in all females * Inject GnRH - all females

* Turn in Bull Power

	Daily Lbs./Hd.	Cost / Lb		
Head in group:	100		PG (\$/dose):	\$2.50
Labor Estimate:	43.8 hours		GnRH (\$/dose):	\$2.60
Labor Charge:	\$10.00 \$/hour		CIDR (\$/insert):	\$10.50
Yardage:	\$0.25 \$/hd/day		Semen (\$/unit):	\$25.00
	Supplement:	0.25 \$0.150		

User Defined Charges:

Name of Item:	Units	Cost - \$ per Unit:
Estrus Alert	100	\$1.14

System: 23 = CO-Synch + CIDR with Fixed-Time AI - 54

Comments
A reliable fixed-time AI system for heifers.
No estrus detection required.
Fixed time AI can be done between 54 and 60 hours post PG injection.

Other Supplement (units = lbs)	0	\$0.150	\$0.00	\$0.00	\$135.00
Feed & Yardage Cost Subtotal		\$0.00	\$0.00	\$0.00	\$4,779.00

**This feed & yardage cost does not credit the cost of maintaining the animal on pasture.

Cost - Response Analysis: 15 = 7-Day CIDR+PG

Estrous Response Rate	Conception Rate of those Responding to Synchronization				
	45%	55%	65%	75%	85%
75%	33.8% \$ per Synch AI Pregnancy \$117.29	41.3% \$ per AI Pregnancy \$95.96	48.8% \$ per AI Pregnancy \$81.20	56.3% \$ per AI Pregnancy \$70.37	63.8% \$ per AI Pregnancy \$62.09
80%	38.0% \$ per Synch AI Pregnancy \$113.43	44.0% \$ per AI Pregnancy \$92.80	52.0% \$ per AI Pregnancy \$78.53	60.0% \$ per AI Pregnancy \$68.05	68.0% \$ per AI Pregnancy \$60.05
85%	38.3% \$ per Synch AI Pregnancy \$110.02	46.8% \$ per AI Pregnancy \$90.02	55.3% \$ per AI Pregnancy \$76.17	63.8% \$ per AI Pregnancy \$66.01	72.3% \$ per AI Pregnancy \$58.25
90%	40.5% \$ per Synch AI Pregnancy \$107.00	49.5% \$ per AI Pregnancy \$87.54	58.5% \$ per AI Pregnancy \$74.07	67.5% \$ per AI Pregnancy \$64.20	76.5% \$ per AI Pregnancy \$56.05
95%	42.8% \$ per Synch AI Pregnancy \$104.29	52.3% \$ per AI Pregnancy \$85.33	61.8% \$ per AI Pregnancy \$72.20	71.3% \$ per AI Pregnancy \$62.57	80.8% \$ per AI Pregnancy \$55.21

System Cost Comparison:				
	23 = CO-Synch + CIDR with Feed Time AI - 54		16 = Select Synch + CIDR with E-AI and Cleanup AI	26= MGA + PG with E-AI and Cleanup AI
Cost Analysis:	Units	Cost/Unit	Total Cost	Total Cost
PG Cost	100.00	\$2.50	\$250.00	\$250.00
GnRH Cost	200.00	\$2.60	\$520.00	\$91.00
MGA Supplement	0	\$0.200	\$0.00	\$280.00
CIDR Cost	100	\$10.50	\$1,050.00	\$0.00
Synchronization Cost Subtotal			\$1,820.00	\$621.00
Detect/Mgt Labor	43.8	\$10.00	\$438.21	\$500.00
Semen	100	\$25.00	\$2,500.00	\$2,500.00
Estrus Alert	100	\$1.14	\$114.00	\$114.00
			\$0.00	\$0.00
			\$0.00	\$0.00
AI Cost Subtotal			\$3,052.21	\$3,120.00
Total Cost (not including feed & yardage)			\$4,872.21	\$3,741.00
Cost / Female Synchronized			\$48.72	\$37.41
Drylot Costs:**				
Days in Drylot	0		0	36
Forage (units = lbs)	0	\$0.040	\$0.00	\$2,880.00
Grain (units = lbs)	0	\$0.060	\$0.00	\$864.00
Yardage (units = hd-days)	0	\$0.250	\$0.00	\$900.00
Other Supplement (units = lbs)	0	\$0.150	\$0.00	\$135.00
Feed & Yardage Cost Subtotal			\$0.00	\$4,779.00

**This feed & yardage cost does not credit the cost of maintaining the animal on pasture.

