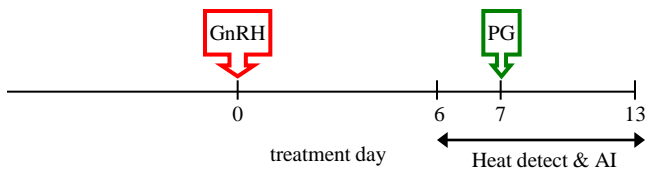


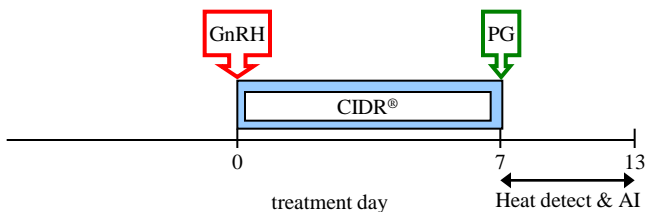
# BEEF COW PROTOCOLS - 2011

## HEAT DETECTION

### Select Synch

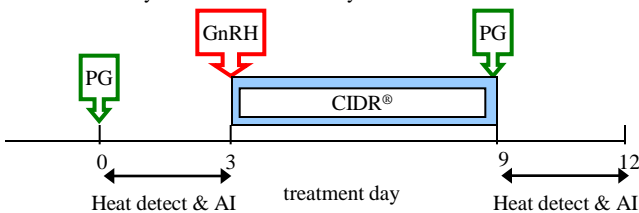


### Select Synch + CIDR®



### PG 6-day CIDR®

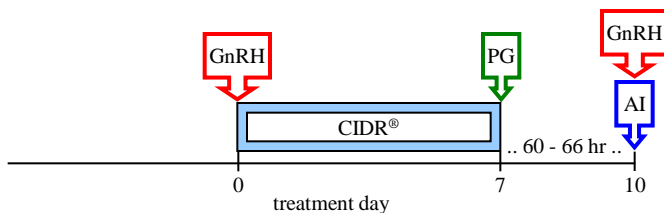
Heat detect and AI days 0 to 3. Administer CIDR to non-responders and heat detect and AI days 9 to 12. Protocol may be used in heifers.



## FIXED-TIME AI (TAI)\*

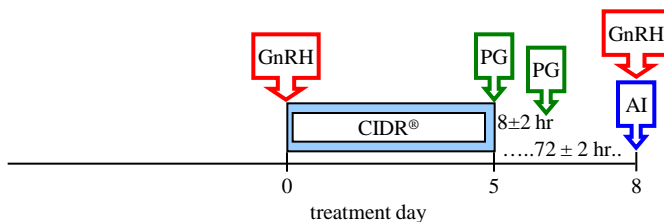
### 7-day CO-Synch + CIDR®

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



### 5-day CO-Synch + CIDR®

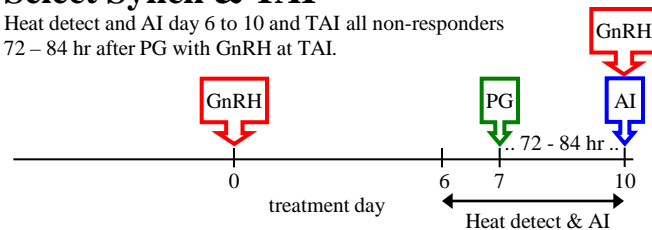
Perform TAI at  $72 \pm 2$  hr after 1<sup>st</sup> PG with GnRH at TAI. Two injections of PG  $8 \pm 2$  hr apart are required for this protocol.



## HEAT DETECT & TIME AI (TAI)

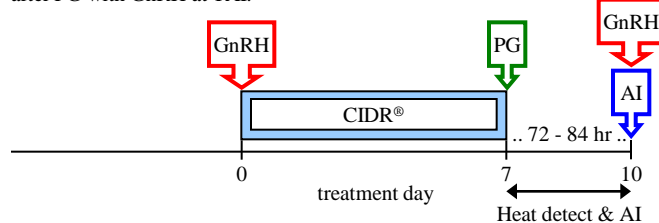
### Select Synch & TAI

Heat detect and AI day 6 to 10 and TAI all non-responders 72 - 84 hr after PG with GnRH at TAI.



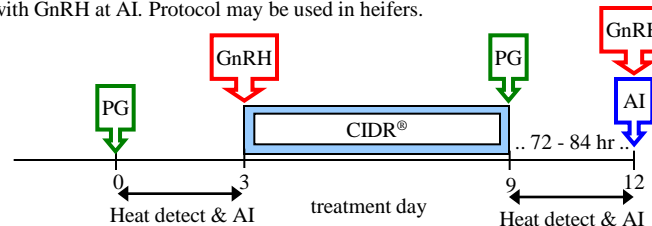
### Select Synch + CIDR® & TAI

Heat detect and AI day 7 to 10 and TAI all non-responders 72 - 84 hr after PG with GnRH at TAI.



### PG 6-day CIDR® & TAI

Heat detect & AI days 0 to 3. Administer CIDR to non-responders & heat detect and AI days 9 to 12. TAI non-responders 72 - 84 hr after CIDR removal with GnRH at AI. Protocol may be used in heifers.



## COMPARISON OF PROTOCOLS FOR BEEF COWS

HEAT DETECTION	COST	LABOR
Select Synch	Low	Medium/High
Select Synch + CIDR®	High	Medium
PG 6-day CIDR®	Medium	Medium/High

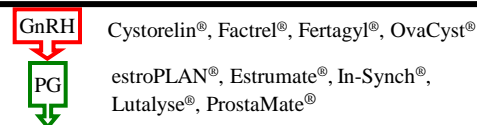
## HEAT DETECT & TAI

Select Synch (TAI non-responders 72-84 hr after PG)	Low	Medium/High
Select Synch + CIDR® (TAI non-responders 72-84 hr after PG)	High	Medium
PG 6-day CIDR® (TAI non-responders 72-84 hr after PG)	Medium	Medium/High

## FIXED-TIME AI (TAI)

7-day CO-Synch + CIDR® (TAI 60 to 66 hr after PG with GnRH at TAI)	High	Medium
5-day CO-Synch + CIDR® (TAI 72 ± 2 hr after 1 <sup>st</sup> PG with GnRH at TAI)	High	High

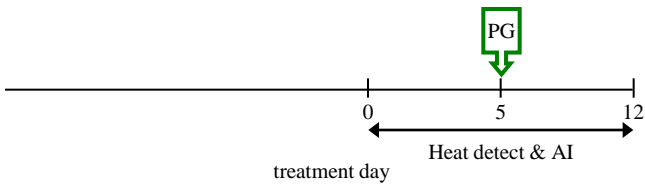
\* The times listed for "Fixed-time AI" should be considered as the approximate average time of insemination. This should be based on the number of cows to inseminate, labor, and facilities.



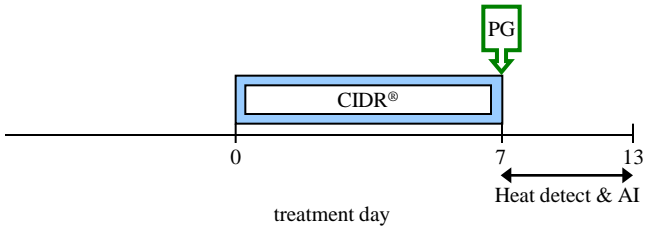
# BEEF HEIFER PROTOCOLS - 2011

## HEAT DETECTION

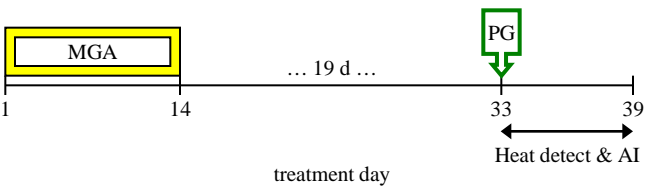
### 1 Shot PG



### 7-day CIDR®-PG



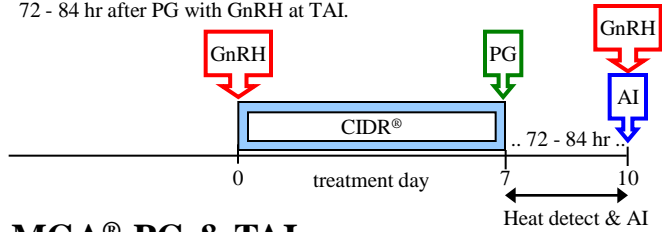
### MGA®-PG



## HEAT DETECT & TIME AI (TAI)

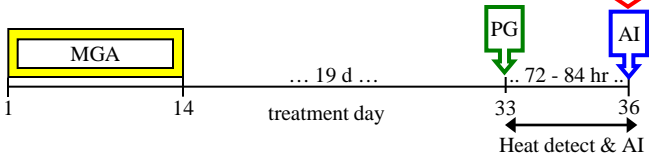
### Select Synch + CIDR® & TAI

Heat detect and AI day 7 to 10 and TAI all non-responders 72 - 84 hr after PG with GnRH at TAI.



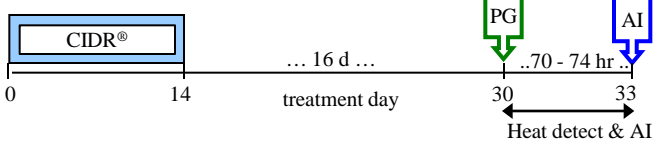
### MGA®-PG & TAI

Heat detect and AI day 33 to 36 and TAI all non-responders 72 - 84 hrs after PG with GnRH at TAI.



### 14-day CIDR®-PG & TAI

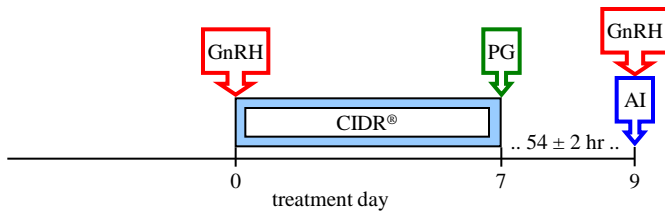
Heat detect and AI day 30 to 33 and TAI all non-responders 72 hrs after PG with GnRH at TAI.



## FIXED-TIME AI (TAI)\*

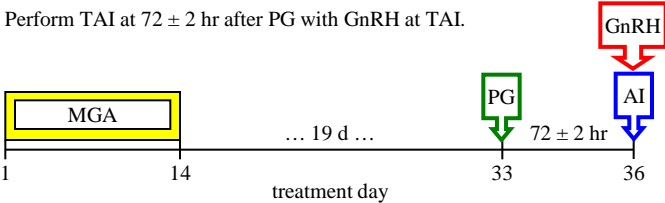
### 7-day CO-Synch + CIDR®

Perform TAI at 54 ± 2 hr after PG with GnRH at TAI.



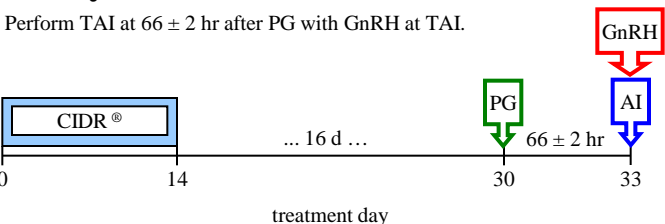
### MGA®-PG

Perform TAI at 72 ± 2 hr after PG with GnRH at TAI.



### 14-day CIDR®-PG

Perform TAI at 66 ± 2 hr after PG with GnRH at TAI.



## COMPARISON OF PROTOCOLS FOR BEEF HEIFERS

HEAT DETECTION	COST	LABOR
1 Shot PG	Low	High
7-day CIDR®-PG	High	Medium
MGA®-PG	Low	Low/Medium

## HEAT DETECT & TAI

Select Synch + CIDR® (TAI non-responders 72-84 hr after PG)	High	Medium
MGA®-PG (TAI non-responders 72-84 hr after PG)	Medium	Medium
14-day CIDR®-PG (TAI non-responders 70-74 hr after PG)	High	Medium

## FIXED-TIME AI (TAI)

CO-Synch + CIDR® (TAI 54 ± 2 hr after PG with GnRH at TAI)	High	Medium
MGA®-PG (TAI 72 ± 2 hr after PG with GnRH at TAI)	Medium	Medium
14-day CIDR®-PG (TAI 66 ± 2 hr after PG with GnRH at TAI)	High	Medium

\* The times listed for "Fixed-time AI" should be considered as the approximate average time of insemination. This should be based on the number of heifers to inseminate, labor, and facilities.

GnRH Cystorelin®, Factrel®, Fertagyl®, OvaCyst®

PG estroPLAN®, Estrumate®, In-Synch®, Lutalyse®, ProstaMate®