**HEAT DETECTION**

**Select Synch**

- GnRH
- PG
- Treatment day

- Heat detect & AI

**Select Synch + CIDR®**

- GnRH
- CIDR®
- PG
- Treatment day

- Heat detect & AI

---

**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.

- GnRH
- PG
- Treatment day

- Heat detect & AI

**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.

- GnRH
- CIDR®
- PG
- Treatment day

- Heat detect & AI

---

**FIXED-TIME AI (TAI)***

**7-day CO-Synch + CIDR®**

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

- GnRH
- CIDR®
- PG
- Treatment day

- 60 - 66 hr...

**5-day CO-Synch + CIDR®**

- Perform TAI at 72 ± 2 hr after 1st PG with GnRH at TAI.

- Two injections of PG 8 ± 2 hr apart are required for this protocol.

- GnRH
- CIDR®
- PG
- PG
- Treatment day

- 8 ± 2 hr...

- 72 ± 2 hr...

---

**COMPARISON OF PROTOCOLS FOR BEEF COWS**

<table>
<thead>
<tr>
<th>HEAT DETECTION</th>
<th>COST</th>
<th>LABOR</th>
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<tbody>
<tr>
<td>Select Synch</td>
<td>Low</td>
<td>Medium/High</td>
</tr>
<tr>
<td>Select Synch + CIDR®</td>
<td>High</td>
<td>Medium</td>
</tr>
</tbody>
</table>

**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 |

**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 1st 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.

- GnRH
- Cystorelin®, Factrel®, Fertagyl®, OvaCyst®
- PG
- estroPLAN®, Estrumate®, In-Synch®, Lutalyse®, ProstaMate®
BEEF HEIFER PROTOCOLS - 2010

HEAT DETECTION

1 Shot PG

7-day CIDR®-PG

MGA®-PG

14-day CIDR®-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.

COMPARISON OF PROTOCOLS FOR BEEF HEIFERS

HEAT DETECTION

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.

HEAT DETECT & TAI

Select Synch + CIDR®

MGA®-PG

14-day CIDR®-PG

TAI non-responders 72-84 hr after PG

TAI non-responders 72-84 hr after PG

TAI non-responders 70-74 hr after PG

FIXED-TIME AI (TAI)

CO-Synch + CIDR®

MGA®-PG

14-day CIDR®-PG

TAI 54 ± 2 hr after PG with GnRH at TAI

TAI 72 ± 2 hr after PG with GnRH at TAI

TAI 66 ± 2 hr after PG with GnRH at TAI

- 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.

Cystorelin®, Factrel®, Fertygal®, OvaCyst®

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