**Comparison of Protocols for Beef Cows**

### Heat Detection

**Select Synch**
- Treatment day: 0, 6, 7
- Heat detect & AI: 13

**Select Synch + CIDR®**
- CIDR®: 7
- Heat detect & AI: 13

**MGA® Select**
- Treatment day: 1, 14, 26, 33, 39
- Heat detect & AI: 39

### Heat Detection & TAI

**Select Synch**
- Heat detect and AI day 6 to 10 and TAI day 72 - 84 hours non-responders 72 - 84 hours after PG with GnRH at TAI.

**Select Synch + CIDR® & TAI**
- CIDR®: 72 - 84 hours
- Heat detect and AI day 7 to 10 and TAI day 72 - 84 hours non-responders 72 - 84 hours after PG with GnRH at TAI.

**MGA® Select & TAI**
- Heat detect and AI day 7 to 10 and TAI day 72 - 84 hours non-responders 72 - 84 hours after PG with GnRH at TAI.

### Fixed-time AI (TAI)

**CO-Synch + CIDR®**
- Perform TAI at 60 ± 6 hours after PG with GnRH at TAI.

**MGA® Select**
- Perform TAI at 72 ± 2 hours after PG with GnRH at TAI.
**Heat Detection**

1 Shot PG

![Heat detect & AI Treatment day](image)

CIDR® - PG

![Heat detect & AI Treatment day](image)

MGA® - PG

![Heat detect & AI Treatment day](image)

**Heat Detection & TAI**

Select Synch + CIDR® & TAI

![Heat detect & AI Treatment day](image)

MGA® - PG & TAI

![Heat detect & AI Treatment day](image)

**Fixed-time AI (TAI)**

Co-Synch + CIDR®

![Heat detect & AI Treatment day](image)

MGA® - PG

![Heat detect & AI Treatment day](image)

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**Comparison of Protocols for Beef Heifers**

<table>
<thead>
<tr>
<th>Heat Detection</th>
<th>Cost</th>
<th>Labor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Shot PG</td>
<td>Low</td>
<td>High</td>
</tr>
<tr>
<td>CIDR® - PG</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>MGA® - PG</td>
<td>Low</td>
<td>Low/Medium</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Heat Detection &amp; TAI</th>
<th>Cost</th>
<th>Labor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Synch + CIDR®</td>
<td>High</td>
<td>Medium</td>
</tr>
<tr>
<td>MGA® - PG</td>
<td>Medium</td>
<td>Medium</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fixed-time AI (TAI)</th>
<th>Cost</th>
<th>Labor</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO-Synch + CIDR®</td>
<td>High</td>
<td>Medium</td>
</tr>
<tr>
<td>MGA® - PG</td>
<td>Medium</td>
<td>Medium</td>
</tr>
</tbody>
</table>

*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.*

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Cystorelin®, Factrel®, Fertagyl®, OvaCyst®

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

GnRH