



MODERN FERTILITY TOOLS

To keep pace, fertility traits have been refined and expanded. FSC, CCR, HCR, EFC and DPR now work together to give a clearer, more accurate picture of genetic fertility, separated from management decisions.

WHY THESE UPDATES MATTER

- Replacement inventories are tighter and fertility efficiency matters more.
- Timed-A.I. programs shift breeding patterns.
- Variations in Voluntary Waiting Period (VWP) are now accounted for to make **Daughter Pregnancy Rate (DPR)** values more accurate.
 - First Service to Conception (FSC) offers a fertility tool independent of VWP.
 - Updated fertility traits ensure selection reflects genetics, not breeding strategy.

USE THE ICONS BELOW AS A GUIDE FOR THE IDEAL OPPORTUNITY TO LEVERAGE EACH FERTILITY TRAIT.



FSC

First Service to Conception (FSC) measures days from first breeding to conception.

- Removes VWP noise and focuses only on what happens after breeding starts.
- Higher PTA = daughters conceive sooner. FSC is strongly correlated with DPR and CCR.

HCR

Heifer Conception Rate (HCR) measures conception ability before first calving.

- Helps identify heifers that breed efficiently and enter the milking herd sooner.
- Complements EFC for a full view of early reproductive efficiency.

EFC

Early First Calving (EFC) captures how efficiently heifers reach first calving.

- Earlier calving = lower rearing costs + faster return on genetic investment.
- Updated to align with modern heifer development strategies.

CCR

Cow Conception Rate (CCR) indicates fertility performance after first calving.

- Updated modeling improves separation of genetics vs. management.
- Works alongside FSC to give a clearer picture of conception success.

DPR

Daughter Pregnancy Rate (DPR) measures how likely daughters are to become pregnant during a given cycle.

- Influenced by breeding timing = harder to interpret when VWP varies.
- Best used alongside FSC for clearer fertility insight.