

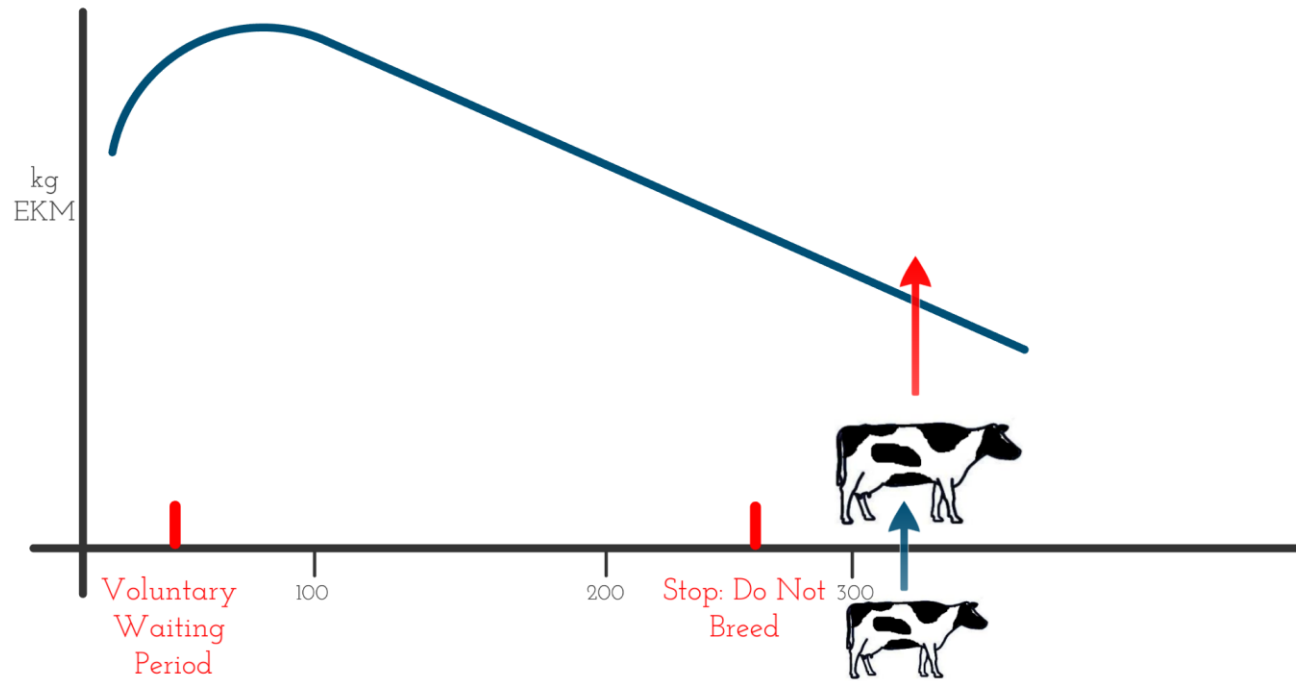
Why is milk yield dropping (a bit) when we use beef semen?

Tabel 1b: Tekniska resultat från scenarierna. Resultaterne for scenarierne (10%-60%) jämförs i förhållande till nuläget.

Procent av kor inseminerad med köttrassperma

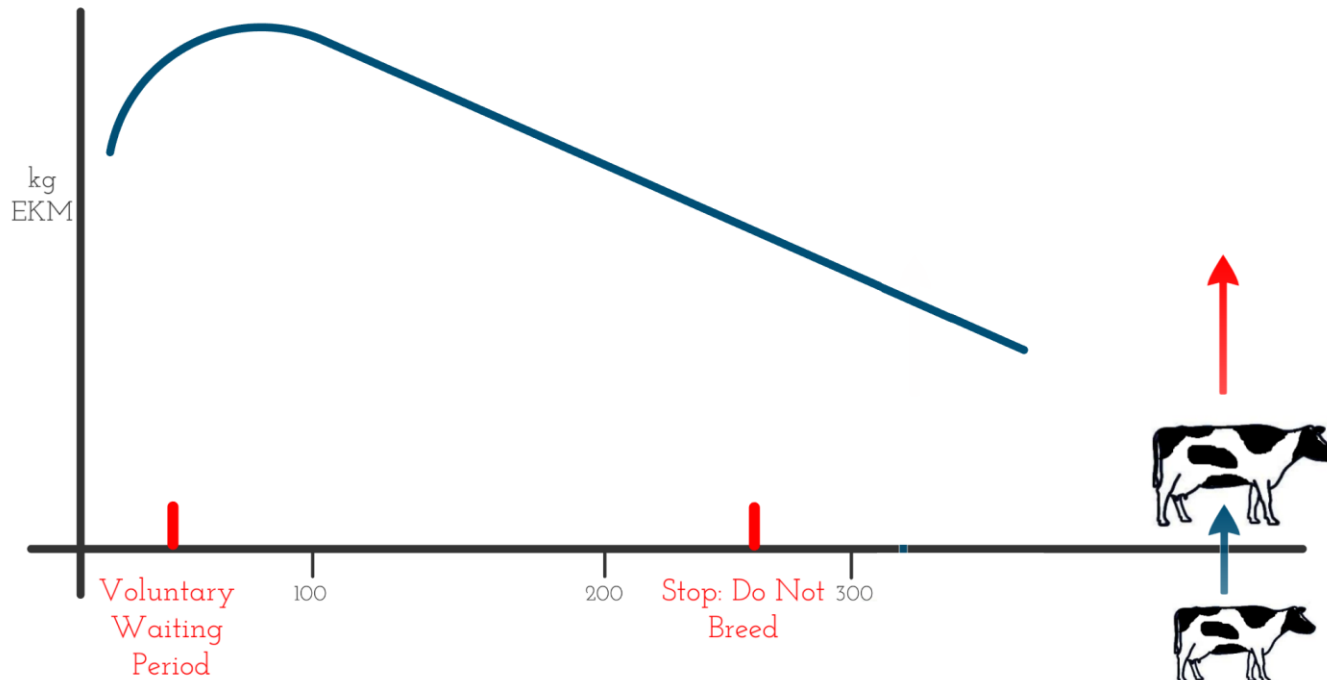
| | Nuläge | 10% | 20% | 30% | 40% | 50% | 60% |
|--------------------------|--------|-----|-----|------|------|------|------|
| Besättningsstorlek | 64 | -0 | -0 | -1 | -1 | -2 | -3 |
| Kalvningar | 70 | -1 | -3 | -6 | -9 | -11 | -12 |
| Utslagnings% | 37 | -1 | -3 | -5 | -6 | -7 | -7 |
| ECM per ko och år | 11313 | -21 | -73 | -151 | -234 | -314 | -349 |
| Sålda högdräktiga kvigor | 4 | -1 | -3 | -4 | -4 | -4 | -4 |
| Sålda tjurkalvar | 35 | -3 | -6 | -10 | -13 | -16 | -18 |
| Sålda korsningskalvar | 0 | 4 | 9 | 13 | 16 | 20 | 23 |
| Ungdjur | 81 | -6 | -14 | -21 | -28 | -35 | -40 |

- 1) Fewer calvings because fewer heifers enter the herd every year
 - Fewer heifers enter the herd, because fewer heifers are available for replacement; replacement is not only a matter of having enough heifers, but also having them at the right time.
- 2) Replacement rate is lower, not because cows get an extra lactation, but because they are culled later in lactation. **See next page**
A lower replacement rate doesn't mean a higher yield, in case the low replacement rate is a result of keeping low yielding cows very long.



Without beef semen

In SimHerd all cows get the change to become pregnant until a certain "Stop: do not breed" limit. If they are not pregnant here, the cow is culled* as soon as a heifer is ready to *push the cow out*.



With beef semen

We use the same rules for "Do not breed". But when we use a lot of beef semen, we have fewer heifers available to *push the cow out*. As a consequence, the cows get culled a bit later in lactation. Or in other words, the low-yielding cow is maintained longer in the barn, whereby average yield on herd level is lowered.

*there is ofcourse also involuntary culling and death, which happens independent of heifers being available.