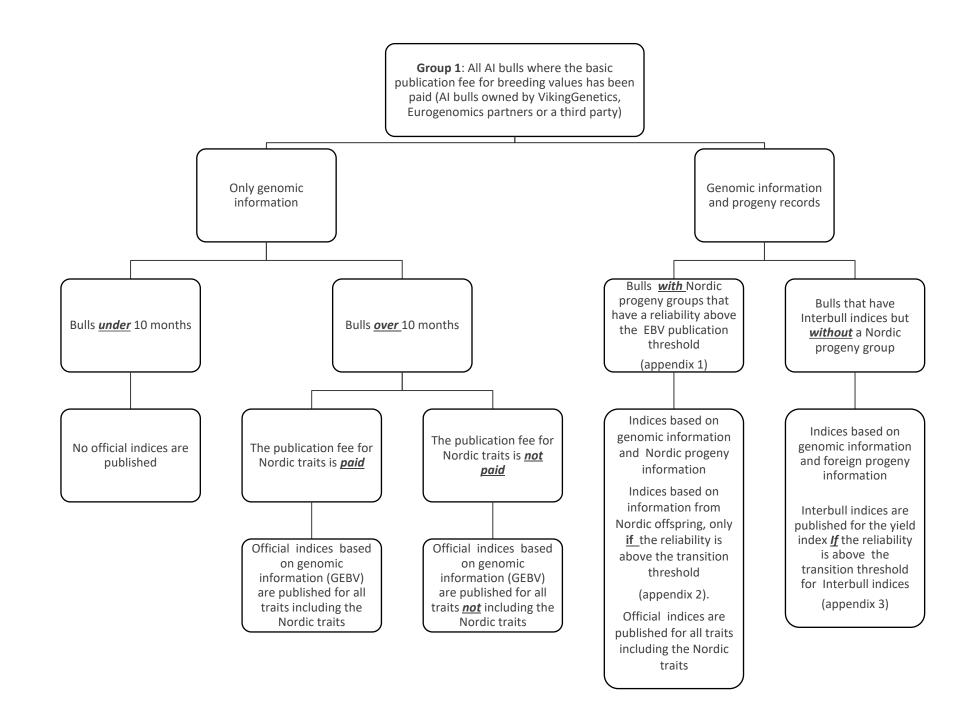
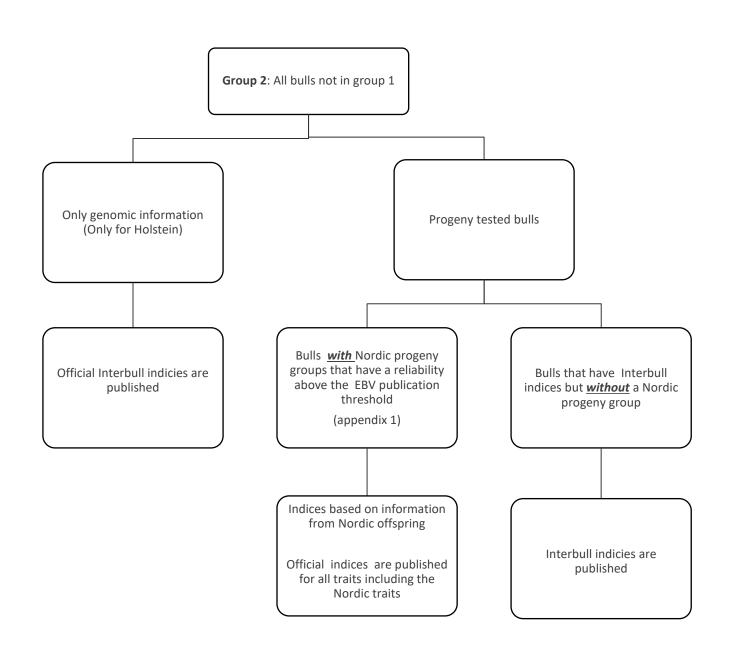
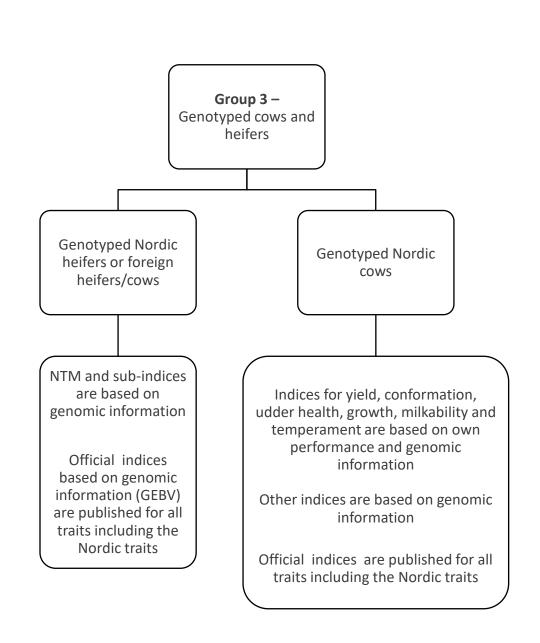
## Publication of official NAV breeding values

- The information behind and criteria for publication
  - This provides an overview of when different groups receive official breeding values from NAV
  - There are 3 different groups:
    - Group 1 All Al bulls where the basic publication fee for breeding values has been paid (Al bulls owned by VikingGenetics, Eurogenomics partners or a third party)
    - Group 2 All bulls not in group 1
    - Group 3 Genotyped cows and heifers
  - There are two types of fees for publication of breeding values:
    - The basic publication fee for breeding values
      - All indices except indices for growth, youngstock survival, general health, claw health and saved feed are published
    - The publication fee for Nordic traits
      - Indices for growth, youngstock survival, general health, claw health and saved feed are published







## Appendix 1 – Threshold of transition from GEBV to GEBV with information from Nordic offspring

| Traits              | Threshold of transition from GEBV (based ONLY on genomic information) to GEBV (based on BOTH genomic information and information from Nordic offspring) |
|---------------------|---|
| Yield               | 60 % reliability and 10 daughters   |
| Conformation        | Single Step*  |
| Milkability         | Single Step*  |
| Temperament         | Published if conformation has 15 daughters  |
| Fertility           | 35 % reliability  |
| Udder health        | 40 % reliability  |
| Calving             | 40 % reliability  |
| Birth               | 50 % reliability  |
| General health      | Single Step*  |
| Longevity           | 50 % reliability  |
| Growth              | Single Step*  |
| Claw health         | Single Step*  |
| Youngstock survival | 40 % reliability  |
| Saved Feed          | 40 % reliability  |

<sup>\*</sup>No treshold for Single Step methode, since calculation is done in one step.

## Appendix 2 – Threshold for transition from GEBV to EBV

| Traits              | Threshold of transition from EBV based on BOTH genomic information and information from Nordic offspring to EBV based ONLY on Nordic offspring |
|---------------------|--|
| Yield               | 90 % reliability   |
| Conformation        | Single Step*   |
| Milkability         | Single Step*   |
| Temperament         | Published if conformation has 50 daughters   |
| Fertility           | 75 % reliability   |
| Udder health        | 75 % reliability   |
| Calving             | 75 % reliability (Jersey 40 %)   |
| Birth               | 75 % reliability   |
| General health      | Single Step*   |
| Longevity           | 75 % reliability   |
| Growth              | Single Step*   |
| Claw health         | Single Step*   |
| Youngstock survival | 75 % reliability   |
| Saved Feed          | 75 % realiabily  |

<sup>\*</sup>No treshold for Single Step methode, since calculation is done in one step.

## Appendix 3 – Treshold for transition from GEBV to EBV for Interbull indicies

| Traits              | Threshold of transition from GEBV based on BOTH genomic information and INTERBULL information to EBV based ONLY on INTERBULL information |
|---------------------|--|
| Yield               | 90 % reliability   |
| Conformation        |  |
| Milkability         |  |
| Temperament         |  |
| Fertility           |  |
| Udder health        |  |
| Calving             |  |
| Birth               |  |
| General health      |  |
| Longevity           |  |
| Growth              |  |
| Claw health         |  |
| Youngstock survival |  |
| Saved Feed          |  |