FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION

| COUNTRY | NORWAY |
| :---: | :---: |
| Breed(s) | Norwegian Red Cattle |
| Traits evaluated and units of measurement | Fat-protein-corrected milk yield, FPCM (kg) |
| Number of lactations | 1 |
| Genetic parameters applied | $h^{2}=0.20$ |
| Inclusion and extension of records | $\leq 120$ days, not included $\geq 120$ days, included after extension Terminated lact., included without extension <br> Records in progress (1:st year) and rec. from culled cows are used in the same way |
| Sire categories evaluated | Only AI sires |

## Effects considered

by preadjustments
by model of evaluation
Base of age adjustment
Use of genetic groups/ relationships/pedigree

Method of evaluation used
Expression of genetic merit
Genetic base, kind/definition

Minimum requirements for official publication of sire proofs

Use of selection index
or total merit index
Name and address of organization responsible for sire evaluations and publishing of results

Key references on methodology applied

Only AI sires

Age, season and days open
Herd-year, sire, maternal grandsire
Adult M.E. (Mature equivalent)
Relationship matrix used/sire and maternal grandsire, no grouping

Single trait BLUP
Relative breeding value, RBV ; \% of mean)
Rolling base, average of the three last batches (years) of young bulls

100 daughters

Total merit index used

Norwegian Red Cattle Association Institutt for Husdyravl N -1432 Ås-NLH Norway

Fimland, E. 1984. Progeny testing procedures in Norway. IDF/EAAP Symp., Prague, Sept. 14-16, 1984, 16 pp.

## Country: Norway

Number of AI bulls tested, means and standard deviations of proofs by year

| Year of first proof | Number of bulls | FPCM* index |  |
| :---: | :---: | :---: | :---: |
|  |  | $\bar{x}$ | S.D. |
| Breed: Norwegian Red Cattle |  |  |  |
| 1979 | 112 | ** | 6.2 |
| 80 | 109 | ** | 6.2 6.8 |
| 81 | 110 | ** | 6.8 6.3 |
| 82 83 | 104 | ** | 6.4 |
| 83 84 | 107 | ** | 5.4 |
| 84 85 | 114 | 100.6 | 5.4 |
| 85 | 117 | 102.5 | 5.8 |

where $M=m i l k$ yield; $f=f a t \%$; $p=$ protein $\%$
** No other base used than the bulls progenytested that year, average index is 100 .

Country: Norway
Average phenotypic levels of (adjusted) production records included in the sire evaluation procedures

| Year of <br> calving | Traits |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Fat $\%$ | Protein $\%$ | FPCM |  |
|  | Norwegian Red Cattle |  |  |  |
| 1979 | 5607 | 4.04 | 3.32 | 5725 |
| 80 | 5750 | 4.02 | 3.30 | 5845 |
| 81 | 5706 | 4.04 | 3.29 | 5800 |
| 82 | 5809 | 4.02 | 3.25 | 5861 |
| 83 | 5782 | 4.06 | 3.25 | 5879 |
| 84 | 5734 | 4.04 | 3.22 | 5768 |

