FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

| COUNTRY | POLAND |
|---|---|
| Breed(s) | Friesian |
| Traits evaluated and units of measurement | Milk and fat (kg), fat % |
| Number of lactations | 1 |
| Genetic parameters applied | $h^2$ milk, fat yield = 0.25<br>$h^2$ fat % = 0.60 |
| Inclusion and extension of records | Age at calving 23-40 months<br>Progeny in min. 3 herds<br>Lact. <200 days not included |
| Sire categories evaluated | All sires |
| Effects considered by preadjustments | |
| by model of evaluation | Herd-year-season, sire |
| Base of age adjustment | |
| Use of genetic groups/ relationships/pedigree | Grouping of bulls by year of birth |
| Method of evaluation used | Single trait, BLUP |
| Expression of genetic merit | BV (kg, %) |
| Genetic base, kind/definition | Fixed base, average BV of bulls born in 1980/81 |
| Minimum requirements for official publication of sire proofs | 10 efficient daughters |
| Use of selection index or total merit index | No index used |
| Name and address of organization responsible for sire evaluations and publishing of results | Central Animal Breeding Office,<br>Sokolowska 3, 01-142 Warsaw |
| Key references on methodology applied | |

Country: Poland App. 1

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

| Year of first proof | No. of bulls | Breeding values | | | | | |
|---|---|---|---|---|---|---|---|
| | | Milk kg | | Fat kg | | Fat % | |
| | | $\bar{x}$ | S.D. | $\bar{x}$ | S.D. | $\bar{x}$ | S.D. |
| **Breed: Friesian** | | | | | | | |
| 1987 | 472 | -8 | 135 | -0.1 | 5.1 | 0.00 | 0.06 |

App.2

Country: Poland

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

| Year of production | Traits | | |
|---|---|---|---|
| | Milk kg | Fat kg | Fat % |
| **Breed: Friesian** | | | |
| 1978 | 3090 | 126 | 4.07 |
| 79 | 2928 | 115 | 3.92 |
| 80 | 3024 | 98 | 3.89 |
| 81 | 2714 | 105 | 3.87 |
| 82 | 2800 | 110 | 3.94 |
| 83 | 2762 | 107 | 3.88 |
| 84 | 2841 | 112 | 3.92 |
| 85 | 3117 | 123 | 3.94 |
| 86 | 3305 | 131 | 3.97 |
| 87 | 3201 | 127 | 3.97 |