FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

| COUNTRY | GREAT BRITAIN |
| :--- | :--- |
| Breed(s) | Ayrshire, British Friesian /Holstein <br> Dairy Shorthorn, Guernsey, Jersey |
|  |  |
| Traits evaluated and |  |
| units of measurement | Milk, fat and prot. (kg), |
| Number of lactations | fat $\%$, prot. $\%$ |
| Genetic parameters applied | 1 |
|  | $h^{2}$ milk, fat and prot. yield = 0.3 |
|  | $h^{2}$ fat $\%$ prot. $\%=0.44$ |

QUAAS, R,L., EVERETT, R.W. and McCLINTOCK, A.E. (1979). Maternal grandsire model for dairy sire evaluation. J. Dairy Sci. 62:1648-1654
MILK MARKETING BOARD. Report of the Breeding and Production Organisation. (Various).

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


Breed: Friesian/Holstein

| 1970 | 123 | 131 | 141 | 5.9 | 5.1 | 3.9 | 4.2 | +0.01 | 0.07 | -0.01 | 0.04 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 71 | 114 | 109 | 157 | 5.2 | 5.3 | 2.9 | 4.4 | +0.01 | 0.09 | -0.01 | 0.06 |
| 72 | 142 | 107 | 164 | 5.8 | 6.6 | 3.1 | 4.8 | +0.03 | 0.10 | -0.01 | 0.05 |
| 73 | 141 | 88 | 174 | 5.7 | 6.8 | 2.6 | 5.1 | 0.05 | 0.10 | -0.01 | 0.06 |
| 74 | 137 | 144 | 180 | 6.6 | 6.7 | 3.7 | 4.7 | 0.02 | 0.10 | -0.02 | 0.06 |
| 75 | 128 | 86 | 177 | 4.3 | 6.2 | 2.3 | 5.1 | 0.02 | 0.10 | -0.01 | 0.04 |
| 76 | 133 | 32 | 167 | 2.5 | 6.6 | 1.5 | 5.1 | 0.03 | 0.09 | 0.01 | 0.05 |
| 77 | 156 | 153 | 175 | 8.0 | 6.1 | 5.0 | 4.6 | 0.04 | 0.17 | 0.00 | 0.06 |
| 78 | 132 | 143 | 170 | 7.0 | 5.9 | 4.4 | 4.8 | 0.03 | 0.10 | -0.02 | 0.05 |

Country: Great Britain
App. 2
Average phenotypic levels of (adjusted) production records included in the sire evaluation procedures

| Year of <br> Birth of <br> sire | Traits |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Milk kg | Fat kg | Protein kg | Fat $\%$ | Protein $\%$ |
| Breed: Fries ian/Holste in |  |  |  |  |  |
| 1970 | 4809 | 188.0 | 158.5 | 3.90 | 3.27 |
| 71 | 4570 | 178.2 | 149.9 | 3.89 | 3.26 |
| 72 | 4673 | 186.7 | 153.7 | 3.99 | 3.26 |
| 73 | 4511 | 177.4 | 148.7 | 3.93 | 3.27 |
| 74 | 4537 | 176.2 | 149.8 | 3.88 | 3.28 |
| 75 | 4538 | 177.2 | 150.1 | 3.90 | 3.29 |
| 76 | 4520 | 175.7 | 150.1 | 3.88 | 3.30 |
| 77 | 4676 | 183.7 | 153.5 | 3.92 | 3.26 |
| 78 | 4594 | 181.2 | 150.9 | 3.94 | 3.26 |

