FACTS ON APPLIED SIRE-EVALUATION PROCEDURES FOR DAIRY PRODUCTION TRAITS

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	<pre><120 days, not included</pre>		
Sire categories evaluated	Only AI sires		
Effects considered			
by preadjustments	Age, season and days open		
by model of evaluation	Herd-year, sire, maternal grandsire		
Base of age adjustment	Adult M.E. (Mature equivalent)		
Jse of genetic groups/ relationships/pedigree	Relationship matrix used/sire and maternal grandsire, no grouping		
Method of evaluation used	Single trait BLUP		
expression of genetic merit	Relative breeding value, RBV (% of mean)		
Genetic base, kind/definition	Rolling base, average of the three last batches (years) of young bulls		
linimum requirements for fficial publication of sire roofs	100 daughters		
se of selection index r total merit index	Total merit index used		
ame and address of organiza- ion responsible for sire valuations and publishing of esults	Norwegian Red Cattle Association Institutt for Husdyravl N-1432 Ås-NLH Norway		
ey references on methodology pplied	Fimland, E. 1984. Progeny testing procedures in Norway. IDF/EAAP Symp., Prague, Sept. 14-11984, 16 pp.		

Country: Norway

App. 1

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

~ • • •		FPCM* index	FPCM* index	
	Number of bulls	\bar{x}	S.D.	
Breed: Norweg				
1979 80 81 82 83 84	112 109 110 104 107 114 117	** ** ** ** 100.6 102.5	6.2 6.8 6.3 6.4 5.4 5.4	

^{*}FPCM=M(0.22+0.075f+0.15p)

where M=milk yield; f=fat %; p=protein %

Country: Norway

App. 2

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

Year of	Traits				
	Milk kg	Fat %	Protein %	FPCM	
Breed: Norw	egian Red Cattl	e			
1979 80 81 82 83 84	5607 5750 5706 5809 5782 5734	4.04 4.02 4.04 4.02 4.06 4.04	3.32 3.30 3.29 3.25 3.25 3.22	5725 5845 5800 5861 5879 5768	

^{**} No other base used than the bulls progenytested that year, average index is 100.