FACTS ON SIRE EVALUATION PROCEDURES APPLIED FOR PRODUCTION TRAITS								
COUNTRY: AUSTRALIA								
Breed(s)	Holstein-Friesian, Jersey, Australian Friesian Sahiwal, Simmental, Illawarra, Ayrshire, Dairy Shorthorn and other red breeds.							
Trait(s) evaluated and unit(s) of measurement	Milk(l), fat and protein (kg, %)							
Number of lactations	All							
Genetic parameters assumed	$h^2$ :yield = 0.25, t = 0.50 $h^2$ :fat % = 0.45, $h^2$ :protein = 0.60							
Criteria for inclusion and extension of records	Age at calving > 18 months. Use is made of test day information up to 300 days for all lactations, both complete and in progress. A penalty is applied to lactations completed before 210 days.							
Sire categories evaluated	All sires.							
Environmental effects considered by pre-adjustment	Test day yields are corrected for age and stage of lactation.							
by evaluation model	Herd-year-season (2 seasons), age groups 2,3,4,5 and 5 years, crossbred vs purebred							
Base for age adjustment (months)	84							
Use of genetic groups and/or relationships	No groups. Relationship matrix with all relatives except that maternal grand-sire is used instead of dam if dam is in different herd.							
Method of evaluation	ST BLUP AM.							
Expression of proof	Breeding value in units of measurement.							
Genetic (reference) base	Fixed, average BV of AI sires weighted by numbers of daughters on file up to 1981/82.							
Criteria for official publication of sire proofs	25 effective daughters in 15 herds for Friesian and Jersey, 10 in 3 herds for other breeds.							
Number of evaluations/ publications per year	1							
Use of production index	No official index at present.							
Name, address and faxnumber of organization responsible for sire evaluation and publication	Australian Dairy Herd Improvement Scheme, First Floor 1601 Malvern Road Glen Iris Vic 3146 Australia. Fax: 61-3-8851526							
Key references on methodology applied	Jones, L.P. 1985. Proc 5th Conf. Aust. Assoc. Anim. Breed. Genetics: 242 Jones, L.P. 1991. Proc 9th Conf. Aust. Assoc. Anim. Breed. Genetics: 9							

## **COUNTRY: AUSTRALIA**

Number of AI bulls (NB) tested, means (X) and standard deviations (SD) of proofs (I,kg) from most recent run, by bull's year of birth (YB) and breed

		Milk		Fat	Protein		Fat %		Protein %		
YB	NB	X	SD	Χ	SD	X	SD	Х	SD	X	SD
Bre	ed:	Holstein									
1975	74	-32		4.0		3.0					
1976	<i>7</i> 8	142		8.0		5.0					
1977	71	83		5.0		4.0					
1978	93	122		6.0		4.0					
1979	113	93		11.0		6.0					
1980	115	111		8.0		4.0					
1981	136	203		11.0		6.0					
1982	127	175		13.0		6.0					
1983	137	208		15.0		7.0					1
1984	193	443		22.0		13.0					
1985	181	512		26.0	_	14.0					
1986	108	519		25.0		15.0					
Breed:		Jersey									
1975	20	-5		1.0		1.0					
1976	28	42		3.0		1.0					
1977	15	177		9.0		5.0					Jarod Estate
1978	39	90		6.0		3.0					
1979	22	68		5.0		3.0					
1980	33	-8		1.0		1.0					
1981	32	103		7.0		4.0					
1982	25	200		13.0		7.0					
1983	40	362		17.0		12.0					
1984	36	431		20.0		13.0				-	
1985	15	417		20.0		12.0					
1986	7	705		27.0		7.0					