

Table 9. Variances (lb^2) of adjusted breed differences to add to sum of within breed prediction error variances to obtain variance of differences of across breed EPDs for bulls of two different breeds^a. Birth weight above diagonal and yearling weight below diagonal

Breed	HE	AN	SH	SD	BR	SI	LI	CH	MA	GE	PI	TA	SA	RA	BV
HE	0.0	0.3	0.9	1.4	0.5	0.5	0.5	0.4	1.2	0.5	0.9	2.6	0.8	0.8	1.5
AN	17	0.0	0.9	1.4	0.5	0.5	0.5	0.4	1.2	0.5	0.9	2.6	0.8	0.8	1.6
SH	57	58	0.0	2.0	1.2	1.2	1.2	1.0	1.7	1.0	1.4	3.2	1.1	1.5	2.1
SD	88	88	130	0.0	1.8	1.3	1.4	1.3	2.2	1.6	2.1	3.8	2.0	1.9	2.6
BR	40	40	84	118	0.0	0.9	0.9	0.8	1.4	0.8	0.9	2.6	1.2	1.2	1.8
SI	32	32	75	82	61	0.0	0.5	0.5	1.4	0.7	1.2	2.9	1.1	0.9	1.8
LI	34	33	77	85	63	31	0.0	0.5	1.4	0.7	1.2	3.0	1.2	0.9	1.8
CJ	26	26	64	84	55	29	32	0.0	1.3	0.5	1.0	2.8	0.9	0.8	1.7
MA	74	74	110	141	97	87	89	82	0.0	1.1	1.6	3.3	1.6	1.7	1.4
GE	30	31	67	99	57	40	41	35	69	0.0	1.0	2.8	1.0	0.9	1.5
PI	60	62	94	134	68	78	80	71	108	70	0.0	2.6	1.3	1.5	2.0
TA	167	168	205	239	166	184	186	178	212	178	161	0.0	3.2	3.2	3.7
SA	53	54	74	126	80	72	74	61	106	63	91	201	0.0	1.4	2.0
RA	50	49	94	116	81	52	54	51	107	54	98	204	90	0.0	2.1
BV	102	103	139	170	126	115	117	110	94	97	137	241	135	135	0.0

^aFor example, a Hereford bull has within breed PEV of 300 for YWT and that for a Shorthorn bull is 200. Then the PEV for the difference in EPDs for the two bulls is $57 + 300 + 200 = 557$ with $SEP = \sqrt{557} = 23.6$.

Table 10. Variances (lb^2) of adjusted breed differences to add to sum of within breed prediction error variances to obtain variance of difference of across breed EPDs for bulls of two different breeds. Weaning weight direct above diagonal and MILK below the diagonal

Breed	HE	AN	SH	SD	BR	SI	LI	CH	MA	GE	PI	TA	SA	RA	BV
HE	0	5	20	29	12	11	11	9	26	10	18	45	19	18	34
AN	17	0	21	29	12	11	11	9	26	10	18	46	19	18	34
SH	51	53	0	45	29	27	27	23	40	24	30	60	27	34	48
SD	61	61	97	0	38	27	28	28	49	33	43	70	44	40	57
BR	27	28	66	76	0	19	20	17	33	18	19	44	27	27	41
SI	36	36	73	62	51	0	10	10	30	13	24	52	25	19	38
LI	38	39	75	65	54	42	0	10	31	14	24	52	26	19	39
CJ	27	28	61	60	42	36	39	0	29	12	22	50	22	18	37
MA	59	60	93	103	72	78	81	70	0	24	36	63	38	38	32
GE	31	32	62	75	45	49	51	39	60	0	21	50	23	20	32
PI	53	55	86	101	57	76	78	66	95	67	0	42	30	32	44
TA	127	128	162	174	125	149	152	140	167	142	136	0	59	60	71
SA	42	45	67	89	57	64	67	52	85	54	78	154	0	33	47
RA	103	104	140	142	119	113	115	107	146	112	144	217	132	0	46
BV	105	107	140	150	119	125	127	116	112	106	141	214	131	192	0