

## SIRE SUMMARY EXPLANATORY NOTES

This Sire Summary contains breeding value results from the first across-herd evaluation for growth traits based on the Invermay sire referencing group. The analysis contained data from 7 herds, being Black Forest Park, Canterbury Red Deer Stud, Doncaster Deer Partnership, Hurunui Red Deer, Invermay, Landcorp and Taihape Red Deer. The analysis contained a total of 26,044 deer, with data from 18 properties (the Landcorp herd runs a dispersed nucleus across 12 properties).

All herds contributed semen from a stag used widely in their own herd. The semen was used to generate progeny at Invermay which have been measured for weight traits up to 12 months of age. This data provided the sire links necessary to combine data from all participating herds into a single genetic analysis and produce Deer Breeding Values (DBVs) which are comparable across all animals included in the analysis.

All Deer Breeding Values are expressed relative to the average of animals born at Invermay in 1990, and units are kg liveweight at weaning (March) or 12 months. For example, a stag with a breeding value of +10.0 for 12 month weight, is genetically 10 kg superior to an average animal at Invermay in 1990. If this stag were to be mated randomly to a group of hinds along side another stag with a breeding value of +2.0, then the progeny of the +10.0 stag would be expected to be 4 kgs heavier at 12 months of age than those of the +2.0 stag. This result is derived by taking the difference in breeding values ( $10.0 - 2.0 = 8.0$ ) and dividing by two (as progeny only get half of their genes from the stag, the other half coming from the dam).

This list contains the leading sires for 12-month weight DBV resulting from the analysis. The list has been constructed to include sires with at least 10 progeny evaluated giving a moderate to highly accurate evaluation. Only sires recently used in the 7 participating herds (i.e. have progeny born in 2000 or later) or known to be still available to the industry have been reported. A total of 159 sires met these criteria, and the list contains the top 50 sires for 12-month weight DBV published. The average breeding value for 12-month weight across the 159 sires was +2.6. Thus all of the sires listed are significantly above the average for 12 month weight DBV.

As this list represents sires used in the 7 herds participating in the analysis, several sires bred by other breeders are represented as either the sire or semen has been purchased and used in the participating herds. In this situation the information presented represents the genetic merit of the particular sire only, and is not representative of the overall merit of the herd the sire was born in.

The information is presented sorted by DBV for 12-month weight to assist breeders in identifying stags with superior growth characteristics. Other traits are also important when selecting deer for venison or velvet production, and it is not recommended that selection decisions are based solely on a single criterion. As new information becomes available the evaluation will be expanded to incorporate a wider range of traits.

Information has been included on the current owner of the stag, or where semen may be available, for the benefit of intending purchasers of young stags or semen. However, there is no guarantee that ownership information is complete or accurate.

For further explanation or interpretation of these results, please contact Dr Jason Archer, AgResearch Invermay ph 03 489 9138.

#### DISCLAIMER

The information contained in this report is compiled from pedigree and performance data supplied by herds contributing to the scheme. Whilst every effort is made to ensure the accuracy of the information contained in this report, AgResearch and DEEResearch assume no responsibility for its content, use or interpretation.

## Sire Summary – Top 50 sires based on Breeding Value for 12-month weight

BirthHerd	Birth Year	BirthTag	Name	No. Progeny <sup>1</sup>	Most recent progeny	BV-WWT	No. prog WWT <sup>1</sup>	BV-W12	No. prog W12 <sup>1</sup>	Current Owner Code	Current Owner Name
BFP	1999	99P043	Kabul	91	2003	<b>+12.8</b>	66	<b>+16.7</b>	89	BFP	Black Forest Park
LDC	1996	205Y	Carl	18	1999	<b>+4.0</b>	17	<b>+12.3</b>	16	DIL	Deer Improvement Ltd
BFP	1999	99Y320	Samurai	91	2003	<b>+6.6</b>	74	<b>+11.4</b>	88	BFP	Black Forest Park
STU	1999	1/99	412096	117	2003	<b>+9.4</b>	114	<b>+10.8</b>	97	STU	Landcorp
BFP	1997	97P773	Romeo	196	2003	<b>+8.0</b>	162	<b>+10.7</b>	184	BFP	Black Forest Park
BFP	1999	99P015	Aleksin	132	2003	<b>+6.1</b>	120	<b>+10.7</b>	120	BFP	Black Forest Park
STO	1983	83/529	Heinrich	146	2002	<b>+8.0</b>	97	<b>+10.5</b>	102	SBP	Stanfield's Bushey Park (stag dead)
STU	1997	127/97	369013	155	2003	<b>+7.9</b>	147	<b>+10.4</b>	131	STU	Landcorp
STO	1995	95132	Cadiz	163	2003	<b>+7.8</b>	162	<b>+10.3</b>	118	LDC	Doncaster Deer Partnership
STO	1991	91020	Koros	299	2003	<b>+7.3</b>	295	<b>+10.2</b>	266	LDC	Doncaster Deer Partnership
PFE	1998	98131	Vukson	35	2003	<b>+11.1</b>	34	<b>+10.1</b>	31	PFE	Peel Forest Estate
STO	1992	92Y11	Nicholai	124	2002	<b>+6.6</b>	77	<b>+10.0</b>	91	BAT	Canterbury Imported Red Deer Stud
STO	1992	92002	Heinrich V	151	2003	<b>+6.5</b>	143	<b>+9.4</b>	122	BAT	Canterbury Imported Red Deer Stud
BFP	1995	95Y002	Nordic	27	1998	<b>+7.2</b>	27	<b>+9.4</b>	10	BFP	Black Forest Park
INV	1997	B731		57	2003	<b>+6.0</b>	54	<b>+8.3</b>	14	INV	AgResearch Invermay
STU	1999	54/99	412029	63	2002	<b>+4.5</b>	59	<b>+8.0</b>	48	STU	Landcorp
HUT	1989	36	Boris	276	2003	<b>+4.5</b>	214	<b>+7.9</b>	153	HUR	Hurunui Red Deer Stud
STO	1993	93012	Izack	298	2003	<b>+6.5</b>	295	<b>+7.9</b>	257	LDC	Doncaster Deer Partnership

<b>BirthHerd</b>	<b>Birth Year</b>	<b>BirthTag</b>	<b>Name</b>	<b>No. Progeny</b>	<b>Most recent progeny</b>	<b>BV-WWT</b>	<b>No. prog WWT</b>	<b>BV-W12</b>	<b>No. prog W12</b>	<b>Current Owner Code</b>	<b>Current Owner Name</b>
BAT	1996	96120	Nicholas	18	2003	<b>+5.0</b>	17	<b>+7.3</b>	16	BAT	Canterbury Imported Red Deer Stud
STO	1997	97002		78	2003	<b>+6.7</b>	78	<b>+7.3</b>	70	TRD	Taihape Red Deer
INV	1996	G654		18	2001	<b>+4.0</b>	14	<b>+7.2</b>	1	INV	AgResearch Invermay
STU	2000	93/00	431008	32	2003	<b>+4.7</b>	31	<b>+7.2</b>	29	STU	Landcorp
ROM	1993	G39	Romany	101	2002	<b>+5.7</b>	50	<b>+6.9</b>	69	SBP	Stanfield's Bushey Parks
BFP	1996	R911		156	2003	<b>+6.0</b>	111	<b>+6.8</b>	56	INV	AgResearch Invermay
HUR	1997	67		16	2001	<b>+3.7</b>	16	<b>+6.7</b>	16	HUR	Hurunui Red Deer Stud
PFE	1992	2086	Vukovar	21	2000	<b>+6.0</b>	18	<b>+6.7</b>	18	PFE	Peel Forest Estate
ROM	1991	Y1	Alexei	189	2002	<b>+5.3</b>	95	<b>+6.6</b>	155	BFP, SBP	Stag dead
PFE	1993	3225	Nelson	59	2002	<b>+6.8</b>	57	<b>+6.5</b>	46	PFE	Peel Forest Estate
BFP	2001	01P466	Turka	14	2003	<b>+1.6</b>	14	<b>+6.3</b>	14	BFP	Black Forest Park
BFP	1994	94O600	Neskey	304	2003	<b>+4.2</b>	126	<b>+6.3</b>	270	BFP	Black Forest Park
BFP	1995	95Y940	Trev	242	2003	<b>+5.6</b>	197	<b>+6.3</b>	111	INV	AgResearch Invermay
BFP	1999	99Y306	Lugar	11	2003	<b>+4.9</b>	11	<b>+6.1</b>	10	WBD	West Bush Deer Stud
STO	1998	98064	Boris	58	2003	<b>+4.1</b>	58	<b>+6.1</b>	29	LDC	Doncaster Deer Partnership
STU	1999	24/99	412109	132	2003	<b>+5.8</b>	126	<b>+6.0</b>	116	STU	Landcorp
INV	1997	B787		20	2001	<b>+3.8</b>	20	<b>+5.9</b>	4	INV	AgResearch Invermay
BFP	1999	99P119		20	2002	<b>+5.7</b>	20	<b>+5.7</b>	20	STU	Landcorp
PFE	1994	4232		135	2002	<b>+5.6</b>	129	<b>+5.6</b>	123	STU	Landcorp
STO	1997	97018		81	2003	<b>+7.7</b>	81	<b>+5.6</b>	73	TRD	Taihape Red Deer
BFP	2000	00P402	Kutana	23	2003	<b>+3.7</b>		<b>+5.5</b>	23	BFP	Black Forest Park

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STU	2000	121/00	430945	33	2003	<b>+5.6</b>	33	<b>+5.5</b>	32	STU	Landcorp
STU	2001	441/01	447896	34	2003	<b>+4.0</b>	33	<b>+5.3</b>	33	STU	Landcorp
BFP	1999	99P073	Joseni	93	2003	<b>+7.5</b>	90	<b>+5.2</b>	84	TRD	Taihape Red Deer
INV	1997	B736		75	2003	<b>+3.7</b>	71	<b>+5.1</b>	20	INV	AgResearch Invermay
STO	1992	92280		277	2003	<b>+4.0</b>	256	<b>+5.1</b>	245	STU	Landcorp
LDC	1996	201Y	Ivanhoe	144	2003	<b>+4.1</b>	144	<b>+4.9</b>	118	LDC	Doncaster Deer Partnership
BFP	1989	89B016	Razim	23	2003	<b>+4.0</b>	3	<b>+4.8</b>	3	BFP	Black Forest Park
STO	1998	98082	Krona	148	2003	<b>+3.4</b>	147	<b>+4.7</b>	101	LDC	Doncaster Deer Partnership
HUR	2000	99		24	2001	<b>+3.7</b>	22	<b>+4.6</b>	20	HUR	Hurunui Red Deer Stud
STU	1998	236/98	386467	44	2002	<b>+3.2</b>	43	<b>+4.6</b>	39	STU	Landcorp
BFP	1999	99P111	Tana	46	2003	<b>+2.6</b>	46	<b>+4.4</b>	44	BAT	Canterbury Imported Red Deer Stud

<sup>1</sup> Columns represent total number of progeny recorded, and number of progeny with weaning weight and 12 month weight recorded respectively.