

# Interpreting

Dairy Goat Genetic Evaluations

Estimated Breeding Values (or EBV's) are an estimation of the genetic value of an animal. They indicate an animal's value as a parent. Individual animals with the best EBVs for a given trait have the highest probability of producing superior progeny for that trait.

**Production Traits:** Goat proofs are expressed as EBV's for Milk, Fat and Protein in units of kilograms/lactation. A rating of zero is considered to reflect breed average. Bucks (and does) transmit half of the genes to their progeny and therefore 50% of their genetic value. For example, a Buck with +100 for Milk can be expected to sire daughters that produce 50 kg more milk per lactation than daughters of a Buck with 0 for Milk (if kept under the same management and environmental conditions).

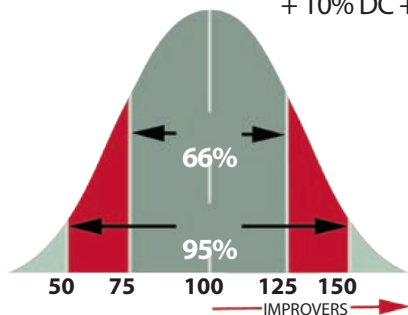
**Conformation Traits:** Breed average for the Conformation Traits is 5. Bucks which are rated as higher than 5 for a trait are considered to be breed improvers for that trait while those less than 5 are not.

**Index Traits:** Index Traits combine all important traits into one overall value. This provides a convenient way to select for several traits at once versus individually selecting traits.

**Combined Index (CINDX) = 60% PINDX + 40% TINDX**

**Production Index (PINDX) = 50 % Milk (kg) + 50% Fat (kg)**

**Type Index (TINDX) = 25% GA + 15% SL + 12% RU + 12% FU + 10% DC + 4% TE + 10% BC + 12% FL**



**Breed Average = 100**

**Ranking - Buck EBV**

Top 5% ~ >140  
Top 10% ~ >130  
Top 20% ~ >120  
Top 30% ~ >110

# Advantages

of Artificial Insemination

For decades, it has been known that goat breeders have significant opportunities to make rapid and substantial genetic gains with the use of goat Artificial Insemination (A.I.). This potential comes from the fact that goats naturally have a very large amount of genetic variability; traits of economic importance are very heritable (genetics can have a big impact); and goats have a relatively short generation interval. This means that goat breeders can rapidly produce more off-spring from their best females in bigger numbers.

## Advantages of A.I.

- ▶ **Increased rate of genetic improvement** due to the superior genetics of the bucks (50% is passed along to the next generation).
- ▶ **Introduces unique genetics** into your herd which can be used on targeted females or bloodlines for greater potential to achieve your goals for your herd.
- ▶ **Limits the negative impact of a natural-service buck** which fails to transmit traits of importance as expected.
- ▶ **Reduces the risk of transmission of diseases** and parasites through direct contact from a buck.
- ▶ **Reduces your cost** of feeding, housing, fencing and labour related to maintaining a buck.
- ▶ **Accurate record keeping** for heats, breeding dates, and pedigrees will lead to more accurate kidding dates, culling decisions and reduced inbreeding levels.

For more details on how you can increase the genetic potential of your herd with A.I., email: [goats@eastgen.ca](mailto:goats@eastgen.ca).

### Guelph Office

760 Mill Road, Guelph, ON  
N1H 6J1 Tel: (519) 821-2150  
1-888-821-2150  
Fax: (519) 763-6582

### Kemptville Office

Box 99, Kemptville, ON  
K0G 1J0 Tel: (613) 258-5944  
1-888-821-2150  
Fax: (519) 763-6582

**EastGen**  
Dairy Goat Proofs  
December 2017



December 2017 Goat Genetic Evaluations

Price	Breed	Name	Registration Number	OVERALL INDEXES		PRODUCTION TRAITS					CONFORMATION TRAITS							PEDIGREE					
				Combined	Production Type	Daughter /Herd	Milk (kg)	Fat (kg)	% Fat Dev.	Protein (kg)	% Protein Dev.	Teats	Fore Udder	Rear Udder	Median Susp. Ligament	Dairy Character	Body Capacity	General Appearance	Feet & Legs	Sire	Maternal Grand Sire	Buck Semen Code	
<b>ALPINE</b>																							
\$25	Trilyte	<i>ADDED ATTRACTION</i>	A129489	95	95 99	0/0	-25 -0.35	-0.04 -0.69 -0.03	4.7	4.9 5.2	4.9	4.8	5.0	5.1	5.1	A125111	A117902	0072AI00005					
\$30	Trilyte	<i>AMBASSADOR</i>	A129490	104	95 115	13/1	-19 -0.50	-0.03 -1.32 -0.05	4.7	5.0 5.6	5.0	4.9	5.2	5.2	5.0	A125111	A122452	0072AI00004					
\$45	Petite-Anse Colt	<i>DA VINCI</i>	CA145825	135	137 111	0/0	160 3.19	-0.26 4.00 -0.11	4.8	5.1 5.0	5.3	5.0	4.9	5.2	5.1	A132008	CA113961	0072AI00006					
\$40	Petite-Anse Captain	<i>EOMER</i>	CA145827	128	114 134	0/0	56 1.26	-0.05 2,21 -0.02	5.1	5.3 5.2	5.0	5.2	5.0	5.3	5.0	A144248	CA118094	0072AI00009					
\$50	Petite-Anse Colt	<i>ERCULES</i>	CA145831	148	132 142	0/0	121 3.21	-0.03 3.25 -0.06	5.3	5.3 5.2	5.3	5.0	5.2	5.7	5.2	A132008	CA118094	0072AI00007					
\$40	Yamaska Vaza	<i>SKYPE</i>	CA143684	133	135 131	0/0	114 4.13	0.08 2.75 -0.03	5.2	5.3 5.6	5.3	5.1	5.2	5.2	5.1	(FRA)A4929304099	CA124335	0072AI00008					
\$30	Weavers	<i>SOLAR STORM</i>	A124013	112	93 133	66/1	-45 -0.07	0.21 -1.03 0.01	4.9	5.2 5.7	5.3	5.0	5.2	5.3	5.2	A64136	A107438	0072AI00002					
\$30	Weavers	<i>SUPER NOVA</i>	A124012	120	102 133	0/0	5 0.34	-0.05 0.31 -0.03	4.9	5.2 5.7	5.3	5.0	5.2	5.3	5.2	A64136	A107438	0072AI00003					
<b>SAANEN</b>																							
\$35	Kampfire Ali Emmott's	<i>ADAM</i>	S129137	107	96 119	0/0	-23 -0.17	0.01 -0.85 -0.06	5.5	5.4 5.2	5.4	5.1	5.1	5.0	5.0	S125975	S92075	0072EN00009					
\$30	Kampfire Ali Emmott's	<i>ANDREW</i>	S129135	102	87 122	0/0	-44 -1.45	-0.13 -1.28 -0.05	5.5	5.5 5.4	5.4	5.1	5.1	4.8	5.1	S125975	S103524	0072EN00010					
\$40	Grasshill Trooper	<i>CLIMAX</i>	S127293	123	112 126	0/0	28 1.57	-0.02 1.34 0.02	5.6	5.3 5.7	5.5	5.3	5.0	4.9	5.0	S111979	S115727	0072EN00008					
\$75	Grasshill Xmas	<i>COMET</i>	S140862	151	153 115	0/0	182 6.02	0.02 4.90 -0.04	5.3	5.2 5.4	5.3	5.2	4.9	4.9	5.1	S126305	S120682	0072EN00024					
\$50	Grasshill Tribute	<i>CORNERSTONE</i>	S111981	136	122 135	0/0	79 2.35	-0.11 2.88 0.01	5.8	5.5 5.8	5.6	5.3	5.1	4.8	5.0	S110861	S98610	0072EN00006					
\$35	Kapra Vista LGI	<i>DESTINY</i>	CS147653	124	143 95	0/0	132 5.40	0.11 4.40 0.04	5.1	5.1 5.1	5.4	5.1	5.0	5.1	4.9	(USA)AS1497009	(USA)AS1516982	0072EN00030					
\$35	Pepperpot CA	<i>DICTATOR</i>	S137788	101	92 113	0/0	-1 -1.63	-0.22 -0.80 -0.01	5.3	5.2 5.2	5.0	5.1	5.0	5.1	5.1	S122531	S110518	0072EN00028					
\$40	Kapra Vista Icon	<i>FRANCHISE</i>	CS125355	114	104 128	0/0	18 0.40	-0.07 -0.10 -0.03	5.2	5.2 5.0	5.2	5.2	5.1	5.7	4.9	(USA)AS1385768	(USA)AS1411192	0072EN00005					
\$60	Sherry's BW	<i>GRASSHOPPER</i>	CS147652	141	144 135	0/0	173 4.40	-0.22 4.20 -0.10	5.2	5.2 5.2	5.2	5.2	5.7	5.1	5.0	(USA)AS1649493	(USA)AS1566411	0072EN00031					
\$55	Sherry's Secret	<i>IDRIS</i>	CS147651	134	157 100	0/0	215 5.90	-0.12 4.70 -0.18	5.1	5.0 5.1	5.4	5.0	5.2	5.0	4.9	(USA)AS1649491	(USA)AS1566411	0072EN00032					
\$55	Caprikorn Farro	<i>JUPITER</i>	CS147927	137	148 120	0/0	161 5.50	0.02 4.40 -0.03	5.2	5.0 5.1	5.2	5.1	5.0	5.8	4.9	(USA)AS1740750	(USA)AS1552383	0072EN00033					
\$40	Grasshill Discovery	<i>RADAR</i>	S141577	139	144 107	0/0	147 5.17	0.05 4.81 0.02	5.3	5.0 5.3	5.2	5.1	4.9	4.9	5.0	S134168	S111945	0072EN00023					
\$45	Kapra Vista LA	<i>WINDBREAK</i>	CS147650	117	122 110	0/0	83 2.20	-0.07 2.30 -0.02	5.2	5.1 5.2	5.1	5.1	5.0	5.1	5.0	(USA)AS1796904	(USA)AS1497009	0072EN00029					
<b>LA MANCHA</b>																							
\$45	Double*Dutch*	<i>TEC ATREYU</i>	L145140	115	123 103	0/0	52 3.40	-0.70 3.59 0.09	5.0	5.2 5.1	5.0	5.0	4.9	5.0	5.0	L138609	L115603	0072LN00001					
\$40	Raintree EZ	<i>MR DARCY</i>	L138612	118	113 125	0/0	1 2.80	0.24 0.70 0.03	5.4	5.0 5.2	5.2	5.1	5.0	5.1	5.0	[USA]L1545346	[USA]L1324599	0072LN00002					
<b>NUBIAN</b>																							
\$45	Haldibrook	<i>KING CANDY</i>	N132969	150	161 103	0/0	167 8.12	0.03 3.81 0.05	5.2	5.1 5.2	5.0	5.1	4.9	4.8	5.1	N128614	N107813	0072NU00001					
<b>TOGGENBURG</b>																							
\$35	La Mountain NAKG	<i>CEDARWOOD</i>	T133134	89	86 100	0/0	-50 -1.62	-0.12 -1.44 0.00	5.3	5.1 4.9	4.8	5.2	5.1	5.1	4.8	T99916	T74470	0072TO00002					
\$45	La Mountain GCE	<i>DOGWOOD</i>	T133140	126	118 122	0/0	104 0.65	-0.30 0.93 -0.14	5.5	5.5 5.1	4.9	5.3	5.0	5.4	4.9	T99916	T74470	0072TO00001					

▶ Please Note: Prices and availability are subject to change without notice.