

Explanation of the headings . . .

Name of Bull	NAAB Sample		Selection Indexes				Milk, Protein and Fat					Type Data				
	Code	Code	NM\$	Rel.	CM\$	FMS	TPI	lbs.M	lbs.P	%P	lbs. F	%F	Rel.	UDC	F&L	PTAT

NAME OF BULL — Bull's registered name.

NAAB CODE — A three-part code. A number before the letter either indicates the stud code or marketing code number. Please see www.naab-css.org/membership/coding.html for a complete explanation. The letters indicate breed, the number following the letters is individual bull identification number.

LIFETIME NET MERIT - NM\$ — Combines PTAs for 9 traits in Holsteins and Brown Swiss. In the other breeds, 8 traits are used because there is no calving ability index available. The values go up slightly for each trait in those four breeds. The index gives the following weighting for Holsteins and Brown Swiss: Productive Life, 22; Fat, 19; Protein, 16; Daughter Pregnancy Rate, 11; Somatic Cell Score, -10; Udder, 7; Body Size, -6; Calving Ability, 5; and Feet and Legs, 4.

CHEESE MERIT - CM\$ — Combines PTAs for 10 traits in Holsteins and Brown Swiss. In the other breeds, 9 traits are used because there is no calving ability index available. The values go up 1.04 for each trait in those four breeds. The index gives the following weighting for Holsteins and Brown Swiss: Protein, 25; Productive Life, 15; Milk, -15; Fat, 13; Somatic Cell Score, -9; Daughter Pregnancy Rate, 8; Udder, 5; Body Size, -4; Calving Ability, 3; and Feet and Legs, 3.

FLUID MERIT - FM\$ — Combines PTAs for 9 traits in Holsteins and Brown Swiss. In the other breeds, 8 traits are used because there is no calving ability index. The values go up 1.06 for each trait in those four breeds. The index gives the following weighting for Holsteins and Brown Swiss: Productive Life, 22; Fat, 20; Milk, 19; Daughter Pregnancy Rate, 12; Udder, 7; Somatic Cell Score, -5; Calving Ability, 5; Body Size, -6; and Feet and Legs, 4.

REL. — Reliability indicates the accuracy of genetic evaluations. Reliabilities are expressed as percents and range from 1 to 99. The closer Reliability is to 99, the more reliable the Predicted Transmitting Abilities (PTAs).

TPI Holsteins — Total Performance Index is a value which is determined by placing an emphasis on production and type. The weighting for this index is 27 PTA Protein, 16 for PTA Fat, 12 Udder Composite, 11 Daughter Pregnancy Rate, 10 PTA Type, 9 PTA PL, 6 Foot and Leg Composite, -5 PTA SCS, -2 Daughter Calving Ease, -1 PTA Dairy Form, and -1 Daughter Stillbirth.

JPI Jerseys — Jersey Performance Index is a value that is determined by placing an emphasis of 40 for PTA Protein; 20 for PTA Fat; 15 for FTI (Functional Trait Index); and 12 for PTA PL (Productive Life), 7 for PTA DPR (Daughter Pregnancy Rate), 3 for FUI (Functional Udder Index), and minus 3 for PTA SCS (Somatic Cell Score).

PPR Brown Swiss — The Progressive Performance Ranking (PPR) is calculated with an emphasis of 45 for PTA Protein, 20 for PTA Fat, 8 PTA SCS, 8 PL, 10 Udder Composite, 3, DPR, 3 PTA Final Score, and 3 for Foot and Leg Composite. **PTI Ayrshires and Milking Shorthorns** — Determined by placing an emphasis of 4 for PTA Pounds of Protein, 2 for PTA Pounds of Fat, and 1 for PTA Type. **PTI Guernseys** — Computed with a weighting of 5 for PTA Protein, 1 for PTA Fat, and 1 for FHL (Functional Herd Life).

PTA LBS. P, %P, LBS. M, LBS. F, AND %F — PTAs for pounds protein, percent protein, pounds milk, pounds fat, and percent fat indicate how much more (or less) "performance" to expect from an average daughter of bull compared to a average daughter of another bull with a proof of zero. The genetic base, called PTA 05, was selected so half the cow population will have positive PTAs. It was established by setting to zero the weighted average PTAs of all cows born in 2005.

PTA SCS — Predicted Transmitting Ability-Somatic Cell Score is expressed in somatic cell score units. For somatic cell score, lower units are better. Research has shown that the lowest incidence of clinical mastitis and the fewest number of mastitis episodes occurred among daughters of bulls with the lowest PTA-SCS, and the mastitis measures increased with increasing PTA-SCS. A one-point increase in the sire's PTA-SCS was associated with a 75 percent increase in daughter's mastitis incidence in both first and second lactation.

PTA PL — Predicted Transmitting Ability-Productive Life is expressed in months a cow is in production. A higher PTA would result in a longer herd life.

UDC Holsteins — Udder Composite Score is a ranking of bulls based on ability for udder improvement. Weights for the various udder traits are: Udder Depth, 35 percent; Front Teat Placement, 5 percent; Rear Udder Height, 16 percent; Fore Udder Attachment, 16 percent; Rear Udder Width, 12 percent; Udder Cleft, 9 percent, and Rear Teat Placement, 7 percent.

F&L Holsteins — Feet and Leg Composite Score is a ranking of bulls based on ability for feet and leg improvement. Weights for the four traits are: Foot Angle, 24 percent; Rear Legs, Rear View, 18.5 percent; Rear Legs, Side View, 7.5 percent; and 50 percent Feet and Leg Breakdown.

CALVING EASE — Service sire calving ease is the tendency of calves from a particular sire to be born more easily (or more difficult) than an average calf. **Sire Stillbirth** is the tendency of newborn calves sired by a particular bull when mated to heifers to be born dead or die within the first 48 hours after birth. Bulls with lower numbers sire more live calves.

Guernsey Top 10 Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes				Production-related PTAs							Type Data		
		NM\$	Rel.	CM\$	PTI	lbs.M	lbs.P	%P	lbs. F	%F	Rel.	SCS	PL	PTAT	Rel.
SNIDERS RONALDS ALSTAR	7GU398	542	76	508	164	1143	25	-0.07	48	-0.01	89	2.96	5.4	0.5	86
MYOWN POKER BINGO-ET	200GU111	472	70	503	135	723	29	0.03	46	0.08	84	2.73	4.1 M	-0.1	70
GOLDEN J RONALD GRUMPY	7GU405	449	72	466	147	652	23	0.01	40	0.06	86	2.93	5.2	1.1	82
PINE RIDGE DOUBLE L	200GU109	444	75	426	114	164	0	-0.03	34	0.15	87	2.61	6.1 M	1.5	73
LES JAONNETS CARA CONQUEROR	31GU629	435	39	326	166	1878	28	-0.17	78	-0.02	69	2.71	2.2	-0.2	8
INDIAN ACRES AMERICAN PIE	31GU618	372	61	369	77	-112	-4	0.00	-5	0.00	79	2.81	6.4	1.0	69
OAK KNOB MAXIE LAREDO	54GU455	363	45	346	151	970	24	-0.04	55	0.07	58	2.98	2.9	0.7	61
FLAMBEAU MANOR C LEXUS	1GU438	331	52	376	62	-480	-3	0.08	23	0.27	65	2.83	4.2	0.2	64
GOLDEN J LES GEORGE	1GU434	326	66	315	134	542	13	-0.03	44	0.11	82	2.92	3.2	1.4	78
VILLA CREST ADVANCE	31GU617	303	46	289	88	46	-2	-0.02	18	0.09	61	2.80	3.3	1.0	61

Ayrshire Top 10 Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes				Production-related PTAs							Type Data		
		NM\$	Rel.	CM\$	PTI	lbs.M	lbs.P	%P	lbs. F	%F	Rel.	SCS	PL	PTAT	Rel.
HAUTPRE KANSAS	200AY643	695	63	747	594	1318	51	0.05	82	0.16	77	2.86	5.5 M	0.3	57
KELLCREST HUMOUR	200AY328	557	72	600	519	571	27	0.05	41	0.10	83	2.82	5.4 M	0.2	65
CARMELGLEN BRODY	190AY10	546	51	616	561	1510	61	0.07	77	0.10	63	3.13	2.9 M	-1.0	51
DUO STAR NORMANDIN	200AY594	469	83	480	529	1227	39	0.00	44	-0.02	92	2.66	2.6 M	0.2	80
JELYCA OBLIQUE	200AY329	459	66	465	539	878	27	0.00	58	0.13	80	2.88	3.4 M	0.9	57
PALMYRA JERRY BENDIG	200AY922	458	72	458	550	1410	41	-0.02	64	0.05	82	2.80	3.1 M	0.7	62
KILDARE PERCY-ET	200AY622	439	65	456	612	2360	73	-0.01	84	-0.03	78	2.60	-1.7 M	0.0	58
PALMYRA TRI-STAR BURDETTE	7AY84	404	83	434	532	670	27	0.03	22	-0.02	95	2.71	3.3	1.9	90
KAMOURASKA MANDARIN	200AY659	389	57	414	539	1193	41	0.02	52	0.03	76	2.78	1.8 M	0.6	56
HIDDEN-VALLEY GARTH	76AY732	378	74	408	427	-262	0	0.04	-4	0.03	89	2.45	6.4 M	0.6	82

Milking Shorthorn Top 5 Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes				Production-related PTAs							Type Data		
		NM\$	Rel.	CM\$	PTI	lbs.M	lbs.P	%P	lbs. F	%F	Rel.	SCS	PL	PTAT	Rel.
GE PANORAMA ROYAL TREBLE	14MS112	632	59	709	301	1663	67	0.08	99	0.20	81	2.65	0.7	0.0	53
KULP-GEN JURIST ACE-ET	7MS346	481	62	555	178	548	34	0.10	81	0.35	82	3.01	3.1	0.3	62
MYSHA-WO ADVENT LIRIANO-ET	7MS347	410	48	390	207	1705	45	-0.04	71	0.04	68	3.01	0.7	0.7	30
VINRA BAR-D FAMOUS-TWIN	76MS49	272	78	280	117	793	25	0.00	25	-0.02	90	3.05	2.9	0.4	79
VINRA ACADEMY FIDO	76MS500	259	58	248	120	1051	28	-0.03	38	0.00	71	3.07	1.5	0.4	49