







Explanation of the headings . . .

Name of Bull	NAAB Sample Code		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

**NAAB CODE** — A three-part code. A number before the letter either indicates the marketing code number. The letters indicate breed, the number following the letters is individual bull identification number.

**LIFETIME NET MERIT - NM\$** — Combines PTAs for 12 traits in Holsteins and Brown Swiss. In the other breeds, 11 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: Fat, 22; Protein, 20; Productive Life, 19; Udder, 8; Daughter Pregnancy Rate, 7; Somatic Cell Score, -7; Body Size, -5; Calving Ability, 5; Feet and Legs, 3; Heifer Conception Rate, 2; Cow Conception Rate, 1; and Milk, -1.

**CHEESE MERIT - CM\$** — Combines PTAs for 12 traits in Holsteins and Brown Swiss. In the other breeds, 11 traits are used because there is no calving ability index available. The index gives the following weighting for Holsteins and Brown Swiss: Protein, 24; Fat, 19; Productive Life, 16; Milk, -9; Somatic Cell Score, -7; Udder, 6; Daughter Pregnancy Rate, 6; Body Size, -4; Calving Ability, 4; Feet and Legs, 2; Heifer Conception Rate, 2; and Cow Conception Rate, 1.

**FLUID MERIT - FM\$** — Combines PTAs for 11 traits in Holsteins and Brown Swiss. In the other breeds, 10 traits are used because there is no calving ability index available. The index gives the following weighting for Holsteins and Brown Swiss: Milk, 23; Fat, 23; Productive Life, 20; Udder, 8; Daughter Pregnancy Rate, 7; Body Size, -5; Calving Ability, 5; Somatic Cell Score, -3; Feet and Legs, 3; Heifer Conception Rate, 2; and Cow Conception Rate, 1.

**GRAZING MERIT - FM\$** — Combines PTAs for 12 traits in Holsteins and Brown Swiss. In the other breeds, 10 traits are used because there is no calving ability index available. The index gives the following weighting for Holsteins and Brown Swiss: Fat, 20; Daughter Pregnancy Rate, 19; Protein, 18; Productive Life, 10; Udder, 8; Somatic Cell Score, -6; Calving Ability, 5; Cow Conception Rate, 4; Body Size, -4; Feet and Legs, 3; Heifer Conception Rate, 2; and Milk, -1.

**REL.** — Reliability indicates the accuracy 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, PTA Fat; 13, Fertility Index; 11, Udder Composite; 8, PTA Type; 7, PTA PL; 6, Foot and Leg Composite; minus 5, PTA SCS; 3, Feed Efficiency; minus

2, Daughter Calving Ease; minus 1, PTA Dairy Form and minus 1, Daughter Stillbirth.

**JPI Jerseys** — Jersey Performance Index is a value that is determined by placing an emphasis of 43, PTA Protein; 15, PTA Fat; 15, FTI (Functional Trait Index); 10, PTA PL (Productive Life); 7, PTA DPR (Daughter Pregnancy Rate); minus 6, PTA SCS (Somatic Cell Score); 2, Cow Conception rate and 2, Heifer Conception rate. **PPR Brown Swiss** — The Progressive Performance Ranking (PPR) is calculated with an emphasis of 44, PTA Protein; 18, PTA Fat; 10, PL; 10, Udder Composite; 10, DPR; minus 4, PTA SCS; and 4, for Mobility. **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 10, 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 2010.

**PTA SCS** — Predicted Transmitting Ability-Somatic Cell Score is expressed in somatic cell score units. For somatic cell score, lower units are better. 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; Rear Udder Height, 16 percent; Fore Udder Attachment, 16 percent; Rear Udder Width, 12 percent; Udder Clef, 9 percent; Rear Teat Placement, 7 percent; and Front Teat Placement, 5 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.

**CAIVING 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.

# Guernsey Top Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes				Production-related PTAs				Type Data						
		NM\$	Rel. CM\$	PTI	Rel.	lbs. M	lbs. P	%P	lbs. F	%F	Rel.	SCS	PL	PTAT	Rel.	
SNIDERS RONALDS ALSTAR	7GU398	322	89	303	99	983	18	-0.07	31	-0.07	95	2.97	3.7	M	-0.3	94
DAIRYMAN MINT PHONZE	7GU447	318	58	358	105	126	27	-0.13	36	0.17	71	2.98	2.6		0.2	61
PINE RIDGE DOUBLE L	200GU109	292	86	295	52	-25	-4	-0.02	28	0.16	92	2.69	4.2	M	1.1	87
ROZELYN GOLIATHS JONATHAN	31GU621	272	68	295	2	-609	-10	0.06	15	0.25	79	2.72	5.1		-1.1	62
JENS GOLD AARON COPPER	14GU318	230	70	225	89	219	1	-0.03	32	0.13	82	2.86	2.7		2.0	74
MARODORE AARONS LEVI	7GU438	227	67	219	73	301	1	-0.05	13	0.00	78	2.80	3.3		1.3	74
LANG HAVEN GRUMPY NOVAK	7GU446	212	56	211	100	707	21	-0.01	31	0.00	68	3.02	0.8		0.6	61
LES JAONNETS CARA CONQUEROR	31GU629	207	72	180	30	680	2	-0.11	35	0.03	80	2.86	1.8	M	-0.6	57
SPRING WALK SHERBERTS TORO	1GU441	176	69	191	89	142	10	0.03	41	0.20	80	2.83	-0.2		0.7	71
INDIAN ACRES AMERICAN PIE	31GU618	162	85	157	54	220	1	-0.03	-10	-0.11	93	2.82	4.1		0.6	91
RIPLEY FARMS AARON CORDELL	7GU440	162	72	171	82	452	18	0.02	41	0.12	83	2.95	-1.0		0.5	80

# Ayrshire Top Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes				Production-related PTAs				Type Data						
		NM\$	Rel. CM\$	PTI	Rel.	lbs. M	lbs. P	%P	lbs. F	%F	Rel.	SCS	PL	PTAT	Rel.	
<b>TOP 5 AYRSHIRE BULLS WITH MILKING DAUGHTERS, RANKED BY NET MERIT</b>																
KAMOURASKA DECAF-ET	200AY699	459	73	473	569	1545	55	0.02	60	-0.01	79	3.00	1.5	G	0.2	63
HAUTPRE KANSAS	200AY643	437	83	465	522	709	34	0.06	60	0.17	90	2.78	2.8	G	-0.2	70
GLEN MALCOLM VISA	200AY729	415	67	423	542	1405	46	0.01	52	-0.02	76	2.94	1.9	G	0.3	61
LESSARD JUMPER-ET	200AY702	395	71	409	539	1112	39	0.02	42	-0.01	77	2.85	1.5	G	0.6	61
JELYCA OBLIQUE	200AY329	393	89	408	519	602	24	0.03	51	0.14	93	2.83	2.9	G	0.4	90

**TOP 5 AYRSHIRE BULLS WITH GENOMIC EVALUATIONS ONLY, RANKED BY NET MERIT**

7 OAKS BURDETTE ALASKA	76AY762	404	42	427	556	915	38	0.04	51	0.08	44	2.84	1.6	G	1.5	45
DES COTEAUX VOLKA-ET	147AY8116	369	37	385	524	865	36	0.05	50	0.08	40	3.00	1.5	G	0.3	32
MAPLE-DELL O DIXON	7AY109	349	44	382	516	143	21	0.08	43	0.20	46	2.86	2.9	G	1.0	46
FOREVER SCHOON PERFECTOR	200AY1003	329	40	347	515	666	27	0.03	45	0.08	44	2.80	1.4	G	0.7	34
BAR-VUE BUTCH	14AY35	312	42	328	487	364	16	0.03	25	0.06	44	2.76	3.5	G	0.7	43

# Milking Shorthorn Top Net Merit Bulls

Name of Bull	NAAB Code	Selection Indexes				Production-related PTAs				Type Data						
		NM\$	Rel. CM\$	PTI	Rel.	lbs. M	lbs. P	%P	lbs. F	%F	Rel.	SCS	PL	PTAT	Rel.	
GE BOSGOWAN BON JOVI	160MS1000	718	57	769	286	1107	66	0.16	108	0.34	66	3.16	2.5	U	0.3	6
GI LODEN BOB DOWN-P	160MS1003	568	57	628		1276	74	0.17	86	0.20	66	3.01	0.2			
GE KULP-GEN PJ COWBOY-P-ET	1MS541	363	74	385	129	627	26	0.03	31	0.04	88	2.67	2.4	U	-0.6	61
SAK KOURT TASER EXP	14MS115	326	80	323	100	554	14	-0.02	31	0.05	91	2.95	5.0	U	0.4	66
KUNDES GOLDEN LOGIC ADVENTURE	14MS116	255	62	253	74	217	13	0.03	60	0.27	80	3.41	2.1	U	0.3	45
ROCKING WS KOURTS FREDRICK-ET	1MS545	78	70	89	38	172	12	0.04	-10	-0.09	85	3.02	2.3	U	-0.2	57
BLISSFUL TED'S SPURGEON-ET	14MS113	19	77	21	-8	-184	-9	-0.02	-7	0.00	89	2.74	0.9	U	-0.2	59