

2008 NATIONAL FFA DAIRY CATTLE EVENT
SIRE SELECTION PROBLEM No. 1

Situation: Semen from these four bulls is available. The bulls were selected to improve the next generation of this herd. RANK the four bulls as they best meet the following objectives in mating with the cow being considered below.

This herd owner has a commercial operation with 574 purebred Holstein cows which currently has an average of 28,920M, 1,125F and 873P. Selection programs emphasize production with consideration for udder health, longevity and body size. Milk is sold to a fluid market. The main concern of this mating is to create a daughter with high production potential and functional type to support that production over a profitable lifetime.

COW TO BE MATED	TRAITS	BULLS TO CONSIDER			
		1	2	3	4
(4yr 1mo ME)	REL	91	89	90	86
37,960	MILK	+1743	+718	+1121	+1260
4.42	FAT %	-0.15	+0.08	-0.07	-0.01
1,678	FAT	+49	+48	+21	+42
	FluidMerit\$	+468	+494	+468	+475
3.11	PROT %	-0.02	-0.01	-0.04	-0.01
1181	PROT	+48	+20	+23	+34
	NetMerit\$	+454	+489	+431	+462
	TPI	+1867	+1806	+1746	+1705
	Productive Life	+2.4	+5.4	+4.8	+2.9
	Daughter Pregnancy Rate	-0.9	1.8	0.3	0.4
	Sire Conception Rate	0.0	4.0	0.0	-2.0
LINEAR SCORE					
28	STATURE	2.36T	2.40T	1.74T	0.86T
31	STRENGTH	1.72S	1.25S	0.12S	1.54S
26	BODY DEPTH	1.85D	1.46D	0.15D	1.49D
32	DAIRY FORM	1.67O	1.48O	0.88O	1.06O
22	RUMP ANGLE	0.50L	1.17L	1.81L	0.18H
28	RUMP WIDTH	1.37W	2.67W	0.98W	1.60W
22	LEGS-SIDE VIEW	1.17P	1.87P	2.43P	1.05S
24	FOOT ANGLE	2.20S	2.84S	2.80S	0.33S
30	FORE ATTACHMT	2.51S	1.60S	3.44S	1.89S
35	REAR UDDER HT	4.01H	2.89H	3.06H	1.78H
32	REAR UDDER WD	4.05W	2.42W	2.31W	2.36W
28	UDDER CLEFT	2.94S	0.13S	1.77S	2.82S
30	UDDER DEPTH	1.70S	1.37S	3.76S	0.34S
25	F TEAT PLCMNT	1.51C	0.11W	2.00C	2.81C
20	TEAT LENGTH	0.33S	0.36S	0.91S	0.66L

STATURE (T-TALL,S-SHORT); STRENGTH(S-STRONG,F-FRAIL);BODY DEPTH (D-DEEP,S-SHALLOW)
 DAIRY FORM(O-OPEN, T-TIGHT RIB); RUMP ANGLE (H-HIGH, L-LOW PINS); THURL WIDTH(W-WIDE,N-NARROW);
 REAR LEGS (C-CURVED,S-STRAIGHT); FOOT ANGLE (S-STEEP, L-LOW);
 FORE ATTACHMENT(S-STRONG,L-LOOSE);REAR UDDER HEIGHT(H-HIGH,L-LOW);
 REAR UDDER WIDTH(W-WIDE,N-NARROW);UDDER CLEFT(S-STRONG,W-WEAK);UDDER DEPTH (D-DEEP, S-SHALLOW);
 F TEAT PLACEMENT (W-WIDE, C-CLOSE); TEAT LENGTH (L-LONG, S-SHORT)
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2008 NATIONAL FFA DAIRY CATTLE EVENT
SIRE SELECTION PROBLEM No. 2

Situation: Semen from these four bulls has been purchased. The bulls were selected to improve the next generation of this herd. RANK the four bulls as they best meet the following objectives in mating with the cow described below.

This herd owner has a purebred Jersey herd of 250 cows in which production, fertility, sire conception rate and longevity are important to the success of the herd. The main type traits emphasized are functional udders and correct feet and legs are important to the success of the herd. Milk is marketed to a cheese plant. Current M.E. lactation average is 17,386M, 869F and 630P.

COW TO BE MATED		BULLS TO CONSIDER			
CURRENT RECORD	TRAITS	1	2	3	4
(3yr 0mo ME)	REL	99	81	99	78
19828	MILK	+1607	+1383	+623	+1162
4.1	FAT %	-0.17	-0.03	-0.02	0.00
821	FAT	+40	+57	+25	+54
	Net Merit\$	+339	+355	+394	+290
3.9	PROT %	-0.07	-0.06	-0.01	-0.02
782	PROT	+43	+38	+20	+38
	Cheese Merit\$	+326	+346	+396	+294
	JPI	179	187	173	167
	Productive Life	+2.40	+1.60	+5.20	+0.5
	Daughter Pregnancy Rate	-0.30	-0.10	+1.1	-1.8
	Sire Conception Rate	-4.0	0.0	3.0	0.0
LINEAR SCORE					
44	STATURE	0.20	+0.40	+1.10	+1.40
38	STRENGTH	-0.80	+1.00	+0.30	+0.90
30	DAIRY FORM	+2.00	+1.00	+2.00	+1.40
28	RUMP ANGLE	H0.20	H0.50	S0.20	S0.50
37	THURL WIDTH	-0.20	+0.40	-0.10	+0.20
27	REAR LEGS	S0.10	P0.70	S0.40	P0.70
33	FOOT ANGLE	L0.10	S0.50	S0.50	S1.20
28	FORE UDDER	+0.20	+1.20	+2.40	+1.00
39	REAR UDDER HT	+2.10	+1.40	+2.90	+1.50
30	REAR UDDER WD	+1.90	+1.90	+2.10	+1.50
24	UDDER CLEFT	+1.20	+0.20	+2.20	+1.40
9	UDDER DEPTH	D1.10	S0.20	S1.70	D0.10
24	TEAT PLACEMENT	C1.60	C0.30	C1.50	C1.70
25	TEAT LENGTH	L0.70	L0.20	S0.80	S1.30

RUMP ANGLE (H-HIGH, L-LOW); REAR LEGS (S-SICKLE, P-POSTY);
FOOT ANGLE (S-STEEP, L-LOW); UDDER DEPTH (D-DEEP, S-SHALLOW);
TEAT PLACEMENT (W-WIDE, C-CLOSE); TEAT LENGTH (L-LONG, S-SHORT)