

Class 2
2007 STATE DAIRY CATTLE EVENT
SIRE SELECTION PROBLEM No. 1

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

This Las Cruces area dairyman has a herd of Commercial Milking Holstein cows consisting of 1862 head. The lactation herd average is currently 18,500M, 492F, and 498P. The dairyman markets his milk based on protein base as the primary factor. The selection program needs to place emphasis on improving teat placement and length.

COW TO BE MATED	TRAITS	BULLS TO CONSIDER			
		1	2	3	4
CURRENT RECORD					
(2yr 1mo ME)	REL	91	88	80	81
19,960	MILK	+2379	+2248	+1990	+2022
4.20	FAT %	+0.16	+0.21	-0.42	+0.20
839	FAT	+98	+76	+93	+86
	Fluid Merit\$	+342	+325	+312	+347
3.95	PROT %	+0.04	+0.09	-0.01	+0.08
807	PROT	+79	+79	+65	+51
	CY\$	+547	+657	+684	+585
	TPI	+1638	+1699	+1989	+1588
LINEAR SCORE					
32	STATURE	+2.08	+0.28	+2.57	+0.14
20	STRENGTH	-1.28	+2.14	+0.45	-0.85
37	BODY DEPTH	+0.35	+2.47	+0.52	+0.64
45	DAIRY FORM	+1.69	+2.44	+1.93	-1.33
19	RUMP ANGLE	L1.77	S1.48	L1.87	L1.04
35	THURL WIDTH	-0.41	+1.08	+0.98	-1.20
2	REAR LEGS	S-0.59	P-0.91	S-1.19	P1.15
34	FOOT ANGLE	+0.75	+0.55	+0.34	+0.08
18	FORE UDDER	+2.03	+1.04	+2.00	+1.82
25	REAR UDDER HT	+2.98	+0.82	+3.36	+2.56
15	REAR UDDER WD	+2.03	+0.17	+0.26	+2.05
5	UDDER CLEFT	+1.64	+1.83	+1.62	+1.59
5	UDDER DEPTH	+1.38	+0.54	+1.38	+1.69
5	TEAT PLACEMENT	+1.73	+0.78	+0.02	+1.89
45	TEAT LENGTH	L1.89	S-2.02	L+1.57	S-0.52

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) RUMP ANGLE (S-STEEP, L-LEVEL)

Class 3
2007 STATE FFA DAIRY CATTLE EVENT
SIRE SELECTION PROBLEM No. 2

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

This Antelope Wells dairyman has a herd of Commercial Holstein cows consisting of 2826 head. The lactation herd average is currently 16,500M, 392F, and 398P. All milk is marketed for fluid consumption. The selection program needs to place emphasis on improving feet and legs.

COW TO BE MATED	TRAITS	BULLS TO CONSIDER			
		1	2	3	4
(2yr 1mo ME)	REL	91	88	80	81
19,960	MILK	+2579	+1848	+2690	+2021
4.20	FAT %	+19	+21	-.22	+.27
839	FAT	+91	+86	+83	+89
	Fluid Merit\$	+346	+325	+212	+347
3.95	PROT %	+.04	+.09	-.01	+.08
807	PROT	+89	+89	+65	+71
	CY\$	+447	+665	+548	+585
	TPI	+1438	+1600	+2189	+1699
LINEAR SCORE					
40	STATURE	+1.08	+1.28	+2.57	-.14
25	STRENGTH	-1.28	+2.04	+0.45	-0.85
33	BODY DEPTH	+0.35	+2.47	+0.52	+0.64
34	DAIRY FORM	+1.69	+2.44	+1.93	-1.53
40	RUMP ANGLE	L1.77	S1.48	L1.87	L1.04
30	THURL WIDTH	-1.41	+1.08	+0.98	-1.20
5	REAR LEGS	S-0.49	P-0.91	S-1.19	P1.15
42	FOOT ANGLE	+0.75	+0.65	+0.64	+0.68
28	FORE UDDER	+2.63	+1.94	+2.00	+1.82
25	REAR UDDER HT	+2.48	+0.92	+2.36	+2.56
15	REAR UDDER WD	+2.03	+0.17	+1.26	+2.05
15	UDDER CLEFT	+1.64	+1.83	+1.62	+.59
15	UDDER DEPTH	+1.38	+0.54	-1.38	+1.69
25	TEAT PLACEMENT	+1.73	+0.78	+0.02	+1.89
25	TEAT LENGTH	L1.89	S-2.02	L+1.57	S-0.52

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) RUMP ANGLE (S-STEEP, L-LEVEL)