

**2013 NEW MEXICO FFA STATE DAIRY CATTLE EVENT**  
**SIRE SELECTION PROBLEM No. 2 KEY**

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 Dona Ana County dairyman has a herd of registered Guernsey cattle, consisting of 1350 cows. The lactation herd average is currently 18,815M, 485F, and 521P. The dairy sell its milk to a small local bottling plant. The selection program places secondary improvement emphasis on producing intermediate body sized cows and longevity.

COW TO BE MATED		BULLS TO CONSIDER			
CURRENT RECORD	TRAITS	1	2	3	4
(2yr 1mo ME)	REL	90	85	88	86
19,990	MILK	+2009	+2148	+2024	+2019
3.39	FAT %	+1.17	+1.19	-.04	+1.18
487	FAT	+82	+76	+93	+96
	FLUID MERIT\$	+505	+519	+614	+575
3.55	PROT %	+0.02	+0.03	-.01	+0.08
477	PROT	+79	+79	+65	+51
	CY\$	+497	+657	+674	+539
	TPI	+1938	+1599	+1889	+1888
<b>LINEAR SCORE</b>					
23	STATURE	+2.98	+1.28	+2.57	2.14
19	STRENGTH	+1.28	+0.14	+2.45	+1.85
18	BODY DEPTH	+2.35	+2.47	+1.02	+1.64
26	DAIRY FORM	+1.69	+2.44	+1.93	+1.33
20	RUMP ANGLE	S1.77	L1.48	L1.87	L1.04
19	THURL WIDTH	+1.41	+1.08	+0.99	-0.70
43	REAR LEGS	P-0.59	S-1.91	S-2.19	P-2.19
42	FOOT ANGLE	L-1.75	L-1.55	L-1.34	S-1.08
28	FORE UDDER	+1.53	+2.24	+2.00	+1.52
36	REAR UDDER HT	+2.18	+2.82	+2.36	+3.56
26	REAR UDDER WD	+1.13	+2.00	+2.26	+2.05
25	UDDER CLEFT	+1.64	+1.53	+1.62	+1.59
5	UDDER DEPTH	+1.38	+2.54	+1.38	+1.39
10	TEAT PLACEMENT	+1.73	+1.78	+1.02	+0.89
35	TEAT LENGTH	L1.89	S-2.02	S+0.57	L-2.52

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)

KEY  
3-7-4  
3-4-1-2