

Leading Hereford Sires in the United States.

A Thesis Presented To The Graduate Committee  
Of the Virginia Polytechnic Institute  
In Application For The Degree  
Of Master of Science.

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By  
R. E. Hunt. B.S

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## Leading Hereford Sires.

In the United States.

The forty-eight animals that won first, second, third, and fourth places in the twelve regular classes at the 1913 International Live Stock Show are taken as a basis for this study. Each and every one of these animals are representative of the highest of Hereford standards. While it is true that these forty-eight animals do not represent the entire breed, they do represent the highest type of Herefords that is being produced in the United States, and for a sire to be rated among the foremost he should be closely related to these leading animals.

Extended pedigrees of these animals were traced to the 5th generation, considering the individual as the zero generation, and the sire and dam the first generation. These pedigrees are complete in all cases, with the exception of two animals whose records are not complete in the Herd Books. A study of these pedigrees will show that the following are the most prominent sires of the breed: - Perfection Fairfax, Bonnie Brae 8th-, Perfection, Beau Donald 40th, Disturber, Prince Rupert, 8th, Beau Donald, Dale, Paladin, Fairfax, Prince Rupert, Beau Brummel, Columbus, Beau Real, Kansas Lad, Jr., Earl of Shadeland 41st, Don Carlos, Anxiety 4th, Earl of Shadeland 9th, Garfield and the Grove 3rd.

The relative importance of the above named sires will be shown by the ensuing tables.

### Explanatory Note.

Table 1 gives a list of all the males. The first column at the left represents the number of the class and the placing of the animal; that is, 1/53 indicates that this animal won 1st place in class No. 53, which includes mature bulls 3 years old and over. 2/53 indicates that the animal won 2nd place in the same class.

Class 53 includes all males 3 years old and over.

"	54	"	"	"	2	"	"	"	under 3 years.
"	55	"	"	"	18 mos.	"	"	"	24 months.
"	56	"	"	"	12	"	"	"	18 "
"	57	"	"	"	6	"	"	"	12 "
"	58	"	"	"					under 6 months.

The letter "A" indicates an animal in the first generation,

"B" an animal in the second generation, "C", third generation, "D",

fourth generation, and "E" an animal in the fifth generation.

Example: 3/54 - E x 3 - A - E - C x 2.

This animal was placed third in the 2-year old and under 3 year old class, and traces to Don Carlos three times in the fifth generation; sired by Bonnie Brae 8th tracing to Beau Real in the fifth generation and to Paladin twice in the third generation. The numbers at the bottom of the table give the number of animals that trace to each of the leading sires.

Example:

Of the twenty-four males ten trace to Garfield and four to Disturber.

Garfield

Disturber.

Dale

Beau Donald

Anxiety 4th

The Grove 3d.

Kansas Lad Jr.

Perfection  
Fairfax.

Perfection

Beau Brummel

Earl of Shadeland  
4th.

1/47 -	B		D	E					C	
2/47 - B		C		B	C					B
3/47 -										
4/47 -										
1/48 - B		C	B	C				A	B	C
2/48 -										
3/48 - B		C						A	B	
4/48 - D			C	C					D	B
1/49 - B										
2/49 - B										
3/49 -										
4/49 - D										
1/50 - B		C	D	B						
2/50 -										
3/50 -										
4/50 -		C						A	B	
1/51 -		C	C	E				A	B	
2/51 -	B		D	D						
3/51 -		C	C	C				A	B	
4/51 -			D	D						
1/52 - B	A		C	C					D	D
2/52 -		C	C	C				A	B	D
3/52 -										D
4/52 -		C	D	D						D

10

4

11

13

14

4

7

8

8

14

15

4

Columbus

Don Carlos

Earl of  
Shadeland 9th.

Prince Rupert

Bonnie Brae 8th

Beau Real

Fair fax

Beau Donald  
40thPrince Rupert  
8th

Paladin

1/47- D	E x 2				E				
2/47- D						C			
3/47-	E x 4				E				
4/47- D									
1/48 D	D					C			
2/48									
3/48- D						C			
4/48-	D x 2 E		B C				A	B	
1/49-		D x 3	D				B x 2		
2/49- C	E								
3/49- D						C			
4/49-	E x 3			A				C x 2	
1/50- D	E x 2	D	C		B E		B	C	
2/50-	E								
3/50-	D x 2 E x 3								
4/50- D						C			
1/51- E						C			
2/51- D	E	E						D x 2	
3/51-D x 2	E					C			
4/51-			C x 2				B x 2		
1/52- D	E	D							
2/52- D	E D	E x 2				C			
3/52-	E x 3			A				C x 2	
4/52-	E x 3								

14

15

5

5

2

3

8

0

4

5

Table 2 gives a list of all females.

Class 59 includes all females 3 years and over.

" 60	"	"	"	2	"	"	under 3 years.
" 61	"	"	"	18 mos.	"	"	24 months.
" 62	"	"	"	12	"	"	18 "
" 63	"	"	"	6	"	"	12 "
" 64	"	"	"	under 6 months.			

Garfield

Disturber

Dale

Beau Donald

Anxiety 4th

The Grove 3d.

Kansas Lad Jr.

Perfection  
Fairfax.

Perfection

Beau Brummel

Earl of

Shadeland 41st

1/53		B	C	E x 2				A	D	D
2/53		C	C	E x 2				B	D	E x 2
3/53 E x 2		B			E	C			D	D
4/53 E		C					A	B		D
1/54		C			D			A	B	E
2/54		C	D					B	E x 2	E
3/54					E	E	C			
4/54			D						E	E x 4
1/55 E x 2			C	E	E				D	
2/55				E					D	C
3/55		C		E			A	B		E <sup>9/16</sup>
4/55 E			B	E x 2					C	
1/56			D x 3			C			D x 2 E x 3	
2/56		C x 2	C	E			A	B	D	E x 2
3/56 E x 2	A		C	E	E	C				D
4/56				E					D	
1/57				E x 4					C E x 2	
2/57 E x 2		C x 2					A	B		D E x 2
3/57 E			B	D E					C	
4/57				E	E	C			D	
1/58			C	E x 4					D	
2/58 D		D	D					C	E	
3/58	B		D x 2			D			E x 3	E
4/58 E			B	D						

10

2

10

14

16

5

6

5

9

17

13

Columbus

Don Carlos

Earl of  
Shadeland 9th

Prince Rupert

Bonnie Brae

Beau Real

Fairfax

Beau Donald  
40th

Prince Rupert  
8th

Paladin

1/53	C																		
2/53	D	E	E		B														
3/53	C	E																	
4/53	D																		
1/54	D																		
2/54	D																		
3/54		E X 3																	
4/54																			
1/55		E																	
2/55		E X 3																	
3/55	D	E																	
4/55		D	D																
1/56		E X 2			C														
2/56	D X 2	E																	
3/56	C	E																	
4/56		D																	
1/57		E X 3																	
2/57	D X 2	E X 2																	
3/57		D	D																
4/57		E X 3																	
1/58		E																	
2/58	E																		
3/58	D	E																	
4/58		D	D																

12 10 8 2 4 6 5 3 0 4



Table 3.

Showing the hereditary contribution of the leading sires upon the  
Forty-eight animals

Perfection Fairfax	A x 13 -----	825.
Bonnie Brae 8th.	A x 6 -----	150.
Perfection	A x 1 - B x 15 - C x 1 -----	120.31250
Beau Donald 40th	A x 3 -----	75.
Disturber	A x 2 - B x 3 - C x 2 -----	61.875
Prince Rupert 8th	A x 1 - B x 5 -----	56.25
Beau Donald	B x 4 - C x 11 - D x 14 - E x 5 -	48.14453125
Dale	B x 2 - C x 21 - D x 1 -----	45.703125
Paladin	B x 1 - C x 13 - D x 2 -----	27.343775
Fairfax	C x 13 -----	20.3125
Prince Rupert	B x 2 - C x 5 -----	20.3125
Beau Brummel	C x 6 - D x 22 - E x 21 -----	20.01453125
Columbus	C x 6 - D x 24 - E x 3 -----	19.04296875
Beau Real	B x 1 - C x 1 - E x 9 -----	14.94140625
Kansas Lad Jr.	C x 8 - D x 6 -----	14.84375
Earl of Shadeland 41st.	C x 3 - D x 9 - E x 35 -----	11.62199375
Don Carlos	D x 14 - E x 53 -----	10.64453125
Anxiety 4th	C x 2 - D x 4 - E x 42 -----	8.7790625
Earl of Shadeland 9th	E x 7 - E x 11 -----	3.80859375
Garfield	D x 5 - E x 24 -----	3.296875
The Grove 3rd	E x 9 -----	0.87890625

A = 25  
B = 6.25  
C = 1.5625  
D = .390625  
E = .0976525

Davenport's coefficient of heredity in the 1st. Generation.  
" " " " " " 2nd. "  
" " " " " " 3rd. "  
" " " " " " 4th. "  
" " " " " " 5th. "

Ranking the sires in regard to the total number of males and females that trace directly to them within five generations we have the following:-

33	Animals Trace to Don Carlos.
31	" " " Beau Brummel
30	" " " Anxiety 4th.
28	" " " Earl of Shadeland 41st.
27	" " " Beau Donald
26	" " " Columbus
21	" " " Dale
20	" " " Garfield
17	" " " Perfection
13	" " " Perfection Fairfax.
13	" " " Kansas Lad Jr.
13	" " " Fairfax
13	" " " Earl of Shadeland 9th
9	" " " Beau Real
9	" " " Paladin
9	" " " The Grove 3d.
7	" " " Prince Rupert
6	" " " Bonnie Brae 8th.
6	" " " Disturber
4	" " " Prince Rupert 8th
3	" " " Beau Donald 40th.

This table emphasizes two distinct lines of breeding.

1st. - Anxiety 4th sired Don Carlos, Don Carlos sired Beau Brummel, Beau Brummel sired Beau Donald, showing that the blood of Anxiety 4th is a very important factor in Hereford breeding.

2nd. - Garfield sired Earl of Shadeland 41st. Earl of Shadeland 41st sired Columbus, Columbus sired Dale, Dale sired Perfection, and Perfection sired Perfection Fairfax, the bull that is considered the King of Herefords. There are good reasons for calling Perfection Fairfax the King of Herefords for he has sired thirteen animals in this list. These two lines of breeding include the first ten animals in the above table. All the animals excepting 2/48, "Farmer" trace to one or both of these two lines, showing that breeders are getting results from Anxiety 4th and Garfield or Earl of Shadeland 41st strains. The pedigrees also show that a combination of these two blood lines give the very best of results. Farmer (2/48) is sired by Eaton Pearl, No. 42016, and out of Fidget, No. 42022. The pedigree shows that neither line breeding nor in and in breeding was resorted to, and that it is a case of out crossing entirely.

One other sire, Bonnie Brae 8th, should be mentioned in so far as he is the sire of six of the animals in the list, and when age is taken into consideration this is an excellent showing.

The coefficient of inbreeding is determined as indicated by the following, from "Modes of Research in Genetics", by Pearl.

"The production of the individual must be the point of departure in any analytical consideration of inbreeding, leading towards its measurement. That is, the question to which one wants an answer is: What degree of inbreeding was involved in the production of this particular animal?

It is therefore necessary practically to start with the individual and work backwards into the ancestry in measuring the inbreeding, rather than to start back in the ancestry and work down towards the individual.

In the genetic passage from the  $n-1$ th generation to the  $n$ th, or in other words the contribution of the matings of the  $n-1$ th generation to the total amount of inbreeding involved in the production of an individual, the degree of inbreeding involved will be measured by the expression,

$$Z_n = \frac{100(p_{n-1} - q_{n-1})}{p_{n-1}}$$

where  $p_{n-1}$  denotes the maximum possible number of different individuals involved in the matings of the  $n-1$  generation, and  $q_{n-1}$  the actual number of different individuals involved in these matings.

$Z_n$  may be called a coefficient of inbreeding. If the value of  $Z$  for successive generations in the ancestral series be plotted to the generation numbers as a base, the points so obtained will form a curve which may be designated as the curve of inbreeding.

It will be noted that the coefficient of inbreeding  $Z$  is the percentage of the difference between the maximum possible number of ancestors in a given generation, and the actual number realized, in the former. The coefficient may have any value between 0 and 100. When there is no breeding of relatives whatever (that is, in the entire absence of inbreeding), its value for each generation is 0. As the intensity of the inbreeding increases, the value of the coefficient rises.

The above measure of inbreeding has to do primarily with the relationship aspect of the problem.

Since the only possible infallible criterion of relationship between individuals is common ancestry in some earlier generation, we are led to the practical rule, in measuring the degree of inbreeding in a pedigree, to regard all different individuals as entirely unrelated until the contrary is proved by the finding of a common ancestor.

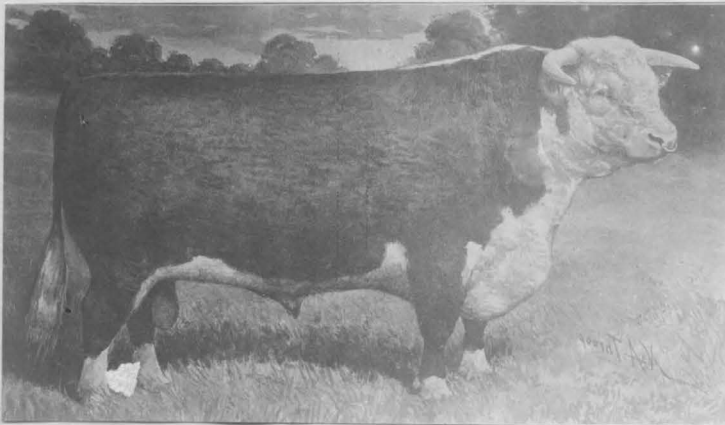
SUBJECT

Curve showing inbreeding of Anxiety 4th.



Anxiety 4th, No. 9904, has for his grandsire on both the sire's and dam's side Long Horns, No. 2239, (471) showing that the blood of the Imported bull, Long Horns is intensified in Anxiety 4th.

Not only are the blood lines of Long Horns intensified but the blood of De Cote No. 2243 (3060) is also intensified in that De Cote is the sire of both of Anxiety 4th's grand-dams, indicating that Long Horns made an exceptionally good cross upon De Cote daughters.



Breed .....  
Sex .....  
Dropped .....  
Bred by .....

Owned by .....

Long Horns  
2239 (4711)

Anxiety  
2238 (5188)

Anxiety 4th  
9904

Helena  
2240

Mercury  
2241 (3967)

Duchess  
2242

De Cote  
2243 (3060)

Regina  
2244

Long Horns  
2239 (4711)

Gaylass  
9905

Lofty  
9906

Mercury  
2241 (3967)

Duchess  
2242

De Cote  
2243 (3060)

Fairy  
9078

Jupiter  
2245 (3191)

Rhodia  
2246

Twin  
2247 (2294)

Duchess  
2248

Tom Boy  
2249 (3546)

Barmaid  
2250

Heart of Oak  
2251 (2035)

Gertrude  
2252

Jupiter  
2245

Rhodia  
2246

Twin  
2247 (2284)

Duchess  
2248

Tomboy  
2249 (3546)

Barmaid  
2250

St John 2d  
4418 (3455)

Curly  
7005

Franky  
1672 (1243)

Eglantine  
2253

Subaltern  
2254 (2794)

Norma  
2255

Homeo  
2256 (2043)

Young Cherry  
2257

Alma  
2258 (1144)

Victoria  
2259

Sir Thomas  
20 (2228)

Mistake  
2260

Royal George  
2261 (2197)

Prettypaid 2  
2262

Wellington  
996 (1112)

Stonel  
2263

Councillor  
2264 (1939)

Lily

Franky  
1642 (1243)

Eglantine  
2253

Subaltern  
2254 (2794)

Norma  
2259

Homeo  
2256 (2043)

Young Cherry  
2257

Alma  
2258 (1144)

Victoria  
2259

Sir Thomas  
20 (2228)

Mistake  
2260

Royal George  
2261 (2197)

Pretty Maid 2  
2262

Sir John Imp.

Beauty  
4428

Councillor  
2264 Imp

Wild Rose  
6969

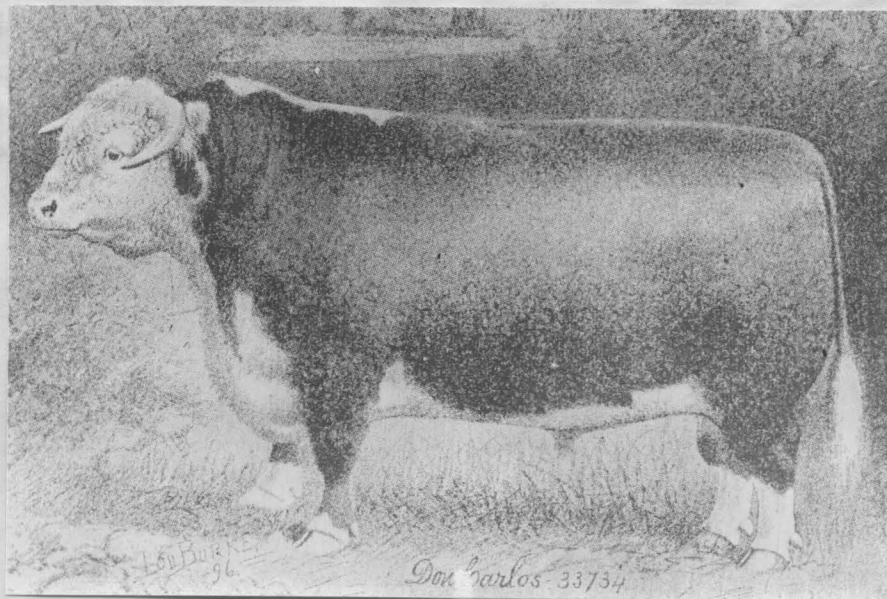
- Z1 = 25
- Z2 = 37.5
- Z3 = 37.5
- Z4 = 40.62

Student's Name .....



Don Carlos, No. 33734, sired by Anxiety 4th, No. 9904, and out of Dowager 6th, No. 6932, is another case of intensifying certain blood lines. Anxiety 4th has the two blood lines intensified as indicated above. Dowager 6th traces to Sir Thomas through both the sire and dam. Young Sir Frank, the sire of Dowager 6th, traces to Sir Benjamin, No. 36, on both the sire's and dam's side, making Sir Richard and Sir Thomas half brothers. They, in turn, sired Sir Frank and Perfection respectively. Perfection, when bred to Sir Frank, produced Young Sir Frank. Don Carlos is the culmination of two distinct lines of breeding which have been intensified but are not related one with the other.

The cross has proven successful beyond a doubt.



Breed -----  
 Sex -----  
 Dropped -----  
 Bred by -----  
 Owned by -----

Don Carlos  
 33734

Anxiety 4th  
 9904

Anxiety  
 2238 (5188)

Gaylass  
 9905

Dowager 6th  
 6932

Young Sir Frank  
 2669(4274)

Dowager 5th  
 6933

Long Horns  
 2239 (4711)

Helena  
 2240

Long Horns  
 2239 (4711)

Lofty  
 9906

Sir Frank  
 2674(2762)

Perfection  
 2675

Leominster  
 2644(3910)

Dowager  
 6934

Mercury  
 2241 (3967)

Duchess  
 2242

DeCote  
 2243 (3063)

Regina  
 2244

Mercury  
 2241(3967)

Duchess  
 2242

DeCote  
 2243(3060)

Fairy  
 9078

Sir Richard  
 1574(1734)

Spangle 2nd

Sir Thomas  
 20(2228)

Young Pleasant  
 2676

Tomboy  
 2249(3546)

Primrose  
 2345

Orleton  
 2678(3293)

Dowager  
 6935

Jupiter  
 2245(3191)

Rhodia  
 2246

Twin  
 2247(2284)  
 Duchess  
 2248

Tomboy  
 2249(3546)

Barmaid  
 2250  
 Heart of Oak  
 2251(2035)  
 Gertrude  
 2252

Jupiter  
 2245(3191)

Rhodia  
 2246

Twin  
 2247(2284)  
 Duchess  
 2248

Tomboy  
 2249(3546)

Barmaid  
 2250

StJohn 2nd  
 4418(3455)  
 Curly

7005  
 Sir Benjamin  
 36(1387)

Primrose  
 1592

Wellington  
 996(1112)

Spangle  
 2685

Sir Benjamin  
 369(387)  
 Lady Ann  
 40

Master Butter.  
 669(313)  
 Pleasant  
 2677

Sir Thomas  
 20(2228)  
 Mistake  
 2260

Adforton  
 2353(1639)  
 Gloucester  
 2354

Colussus  
 2687(3030)  
 Beauty

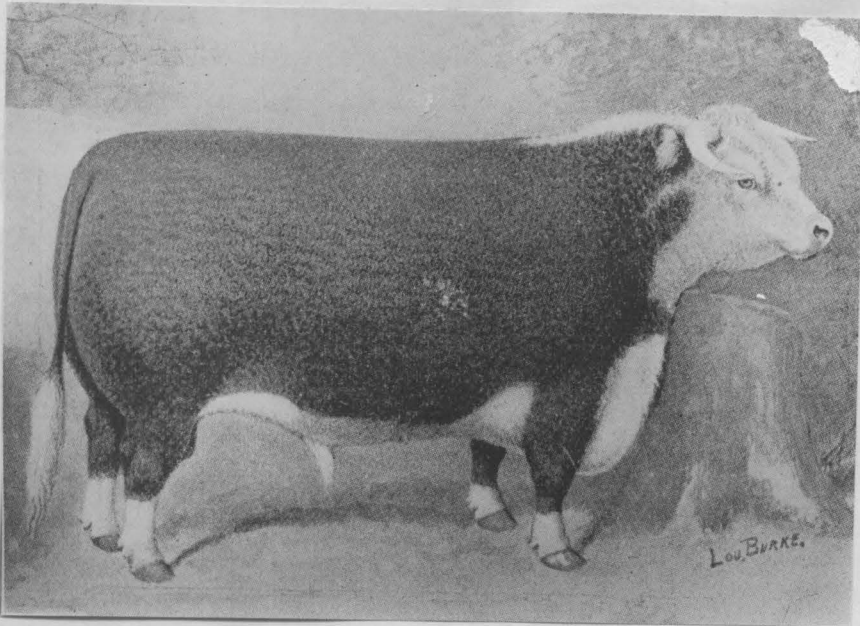
2683  
 Gaylad

Dowager 3d  
 6936

Z<sub>1</sub> = 00  
 Z<sub>2</sub> = 12.5  
 Z<sub>3</sub> = 18.75  
 Z<sub>4</sub> = 21.875

Student's Name -----

Beau Brummel is out of Belle, No. 24629. She in turn traces to Sir Thomas, No. 20 (2228). Sir Thomas is also found in the sire's side but the blood is not intensified and it would be safe to say that Beau Brummel's Dam is the result of out crossing.



Mercury  
2241(3967)  
Duchess  
2242

Long Horns  
2239(4711)

Anxiety  
2238

Helen  
2240

De Cote  
2243  
Regina  
2244

Anxiety 4th

9904

Long Horns  
2239

Gaylass  
9905

Lofty  
9906

Mercury  
2241(3967)  
Duchess  
2242

De Cote  
2243(3060)

Fairy  
9078

Don Carlos  
35734

Sir Frank  
2674(2762)

Young Sir Frank  
2669(4274)

Perfection  
2675

Sir Richard  
1574(1734)  
Spangle 2nd  
2684

Sir Thomas  
20(2228)  
Young Pleasant  
2676

Dowager 6th  
6932

Leominster  
2644(3910)

Dowager 5th  
6933

Dowager  
6934

Tom Boy  
2249(3546)  
Primrose  
2345

Oxton  
2678(3293)  
Dowager  
6935

Beau Brummel  
51817

Wrexham  
2411(4260)

Mars 12  
4462(5457)

Gem 8th  
4440

Chance  
2413(5736)  
Beauty  
2414

Dauphin  
3353(3058)  
Gem 2nd  
4441

North Pole  
8946

Bismark  
3045

Creamy  
8447

Careless  
7817

Sir Thomas  
20(2228)

Spark  
3054  
Chancellor  
7821(2453)

Miss Culmingto  
7818

Belle  
24629

Sir Thomas  
20(2228)

Aberdeen  
5248

Pretty Maid  
5266

Sir Benjamin  
36(1387)

Lady Ann  
40

North Star  
1563(2138)  
PrettyMaid  
5267

Beau Ideal 8

Matchless  
1557(2110)

Beau Ideal  
5003

Silver  
4981

Claret  
1565(1921)

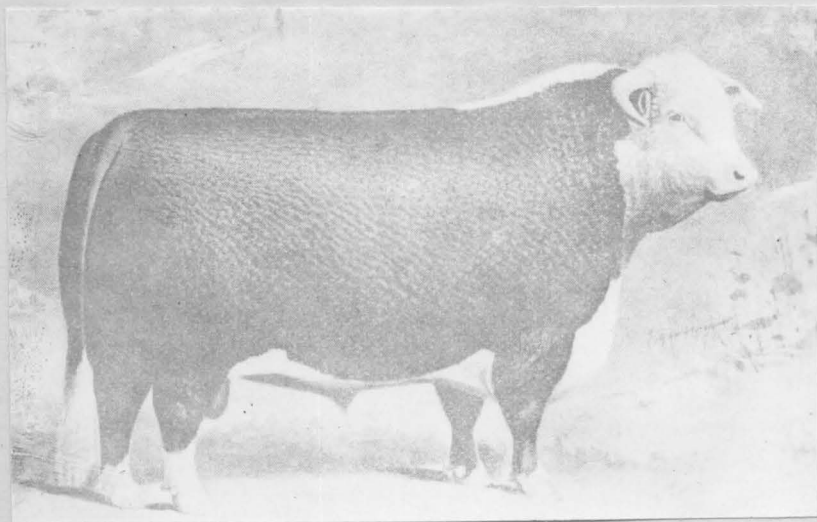
Gay  
1566

Sererns  
1196(1062)

Silver 4  
1243

- Z<sub>1</sub> = 00.
- Z<sub>2</sub> = 00.
- Z<sub>3</sub> = 6.25
- Z<sub>4</sub> = 15.625

Beau Donald, No. 58996, traces through Beau Brummel and Don Carlos to Anxiety 4th. Beau Donald's dam is Donna who is sired by Anxiety 4th and out of Dowager 6th, making Donna a full sister to Don Carlos. This intensifies the blood lines of Anxiety 4th and Dowager 6th, and produced a sire that was very prepotent.



Breed -----  
 Sex -----  
 Dropped -----  
 Bred by -----  
 Owned by -----

McDon Carlos  
 333734

Beau Brummel  
 51817

Beau  
 Donald  
 58996

Belle  
 24629

Donna  
 33735

Anxiety 4th 9904	Anxiety 2238	Long Horns 2239 Helena 2240
	Gaylass 9905	Long Horns 2239 Lofty 9906
	Young Sir Frank 2669(4274)	Sir Frank 2674(2262) Perfection 2675
Dowager 6th 6932	Dowager 5th 6933	Leominster 2644(3910) Dowager 6934
	Mars 12	Wrexham 2411(4260)
North Pole 8946		Gem 8th 4440
	Creamy	Bismark 3045 Careless 7817
	Aberdeen 5248	Sir Thomas 20(2228) Pretty Maid 4 5266
Beau Ideal 8 9949	Beau Ideal 5003	Matchless 1557(2110) Silver 4981
	Long Horns 2239	Mercury 2241(3967) Duchess 2242
Anxiety 2238	Helena 2240	DeCote 2243(3060) Regina 2244
Anxiety 4th 9904	Long Horns 2239	Mercury 2241(3967) Duchess 2242
	Gaylass 9905	De Cote 2243(3060) Fairy 9078
	Lofty 9906	Sir Richard 1574(1734) Spangle 2nd 2684
	Sir Frank 2674(2762)	Sir Thomas 20(2228) Young Pleasar 2676
	Young Sir Frank 2669(4274)	Tomboy 2249(3546)
	Perfection 2675	Primrose 2345
Dowager 6th 6932	Leominster 2644(3910)	Orleton 2678(3293)
	Dowager 5th 6933	Dowager 6934
	Dowager 6934	Dowager 6935

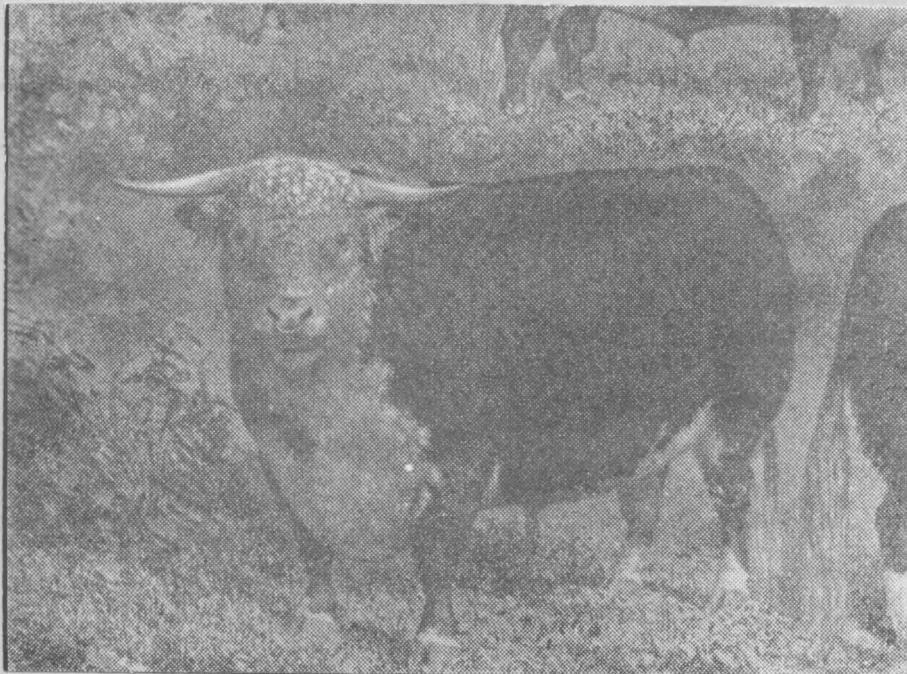
- Z1 = 00.
- Z2 = 25.
- Z3 = 31.25
- Z4 = 37.5

Student's Name -----

Garfield, No. 7015, traces to Sir Thomas, No. 20 (2228), in the fourth generation once, and the same can be said of Anxiety 4th.

Other than this there is no relationship between Garfield and Anxiety 4th.

Garfield is the result of out crossing



Breed -----  
 Sex -----  
 Dropped -----  
 Bred by -----  
 Owned by -----

Garfield  
7015

Quickset  
6853

Plum  
7016

Regulus  
3849

Spot  
3339

Challenge  
1561(3005a)

Plum  
7017

Sir Roger  
3850

Bonnie  
3851

Horace  
2492

Spot  
3340

Santiago  
1572

Damsel  
37

North Star  
1563

Plum  
7018

Sir Thomas  
20(2228)

Daisy  
3852

Carbonel  
2662(1525)

Beauty 2nd  
63

Frugality  
2497(1997)

Dady  
2498

Cholstrey  
2509(1918)

Spot  
3341

San Jacinto  
1588(2209)

Spark  
1589

Gaylad 2nd  
70(1589)

Curly  
71

Sir Richard  
1574 (1734)

Spot  
1575

Havelock  
2435(1509)

Comely  
7019

Sir Benjamin  
36(1387)

Lady Ann  
40

North Star  
1563(2138)

Daisy  
3853

The Doctor  
64(1083)

Comely  
2663

Young Walford  
110 (1820)

Shamrock 2nd  
768(2210)

Dainty  
2504

Shamrock 2nd  
768(2210)

Young Lady  
2505

Ashton  
2514(1500)

Dam by Monkland  
480(1013)

Lord Clyde  
3879(2084)

Spot  
3342

Hatfield  
1610(2030)

Duchess  
1611

Miliam  
1612(1320)

Spark  
1613

Gaylad  
123(400)

Spot  
44

Dharity 2nd  
125(1535)

Curly  
126

Sir Benjamin  
36(1387)

Primrose  
1592

Old Count 2  
1593(2140)

Dam by the  
Grove.

Sir Henry  
2444(1730)

Miss Morris  
2445

Conrad  
2489(935)

Miss Pembroke  
3223

Z1= 00  
Z2= 00  
Z3= 00  
Z4= 6.25

Student's Name -----



Earl of Shadeland 41st, No. 33378, Gertrude Wilton the dam of Earl of Shadeland, 41st, traces to Sir Thomas in the third generation on the sire's side and the dam of Gertrude Wilton is a line bred De Cote animal. Earl of Shadeland 41st's third dam is Gaylass, the dam of Anxiety 4th, showing that the two famous bulls are very closely related.

Breed -----  
 Sex -----  
 Dropped -----  
 Bred by -----  
 Owned by -----

23

Sir Roger 3850	Sir Thomas 20(2228)
Bonnie 3851	Daisy 3852
Horace 2492	Carbenel 2662(1525)
Spot 3340	Beauty 2nd 63
Spot 3339	Frugality 2497(1997)
Santiago 1572	Lady 2498
Challenge 1561(3005a)	Cholstrey 2509(1918)
Damsel 37	Spot 3341
North Star 1563	San Jacinto 1588(2209)
Plum 7018	Spart 1589
Sir Roger 3850	Gaylad 2nd 70(1589)
Daisy 3852	Curly 71
Marmion 4117	Sir Richard 1574(1734)
Lady Claire 4116	Spot 1575
Lady Adforton 3953	Havelock 2435(1609)
DeCote 2243	Comely 7019
Rodney 2563(4907)	Sir Benjamin 36(1387)
Regina 2244	Lady Ann 40
Long Horns 2239(4711)	North Star 1563(2138)
Lofty 9906	Daisy 3853
	Brandon 4120(2972)
	Bonnie 3851
	Pilot 32(2156)
	Lady Ashford 3956
	Tomboy 2249(3546)
	Barmaid 2250
	Heart of Oak 2251(2035)
	Gertrude 2252
	Mercury 2241(3967)
	Duchess 2242
	DeCote 2243(3060)
	Fairy 9078

Garfield  
7015

Quickset  
6853(6127)

Plum  
7016

Plum  
7017

Lord Wilton  
4057(4740)

Gertrude Wilton  
19017

Gertrude  
19018

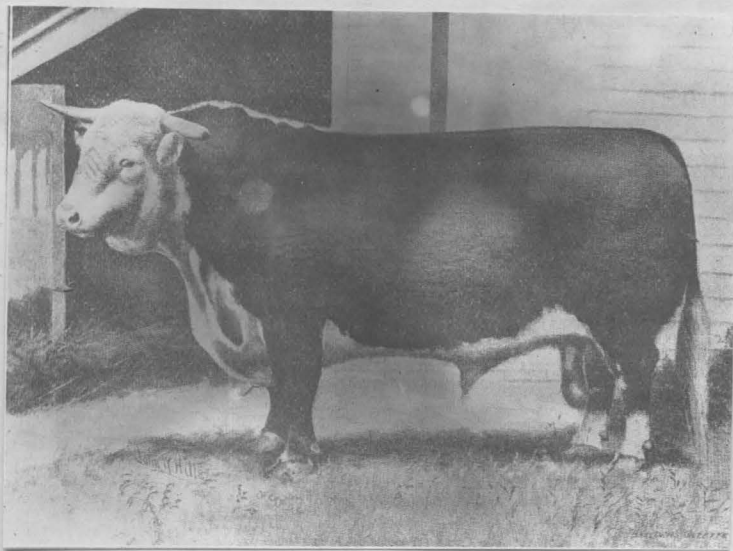
Earl  
of  
Shadeland 41st.  
33378

Z1 = 00  
 Z2 = 00  
 Z3 = 6.25  
 Z4 = 6.25

Student's Name -----

Columbus, No. 51875, has for his dam Pet, No. 36054, who traces to Anxiety and De Cote in the third generation, which is only another proof that these lines of breeding cross well.

This blood has been popular and in demand by the early Hereford breeders.



Breed -----  
 Sex -----  
 Dropped -----  
 Bred by -----  
 Owned by -----

Columbus  
 51875

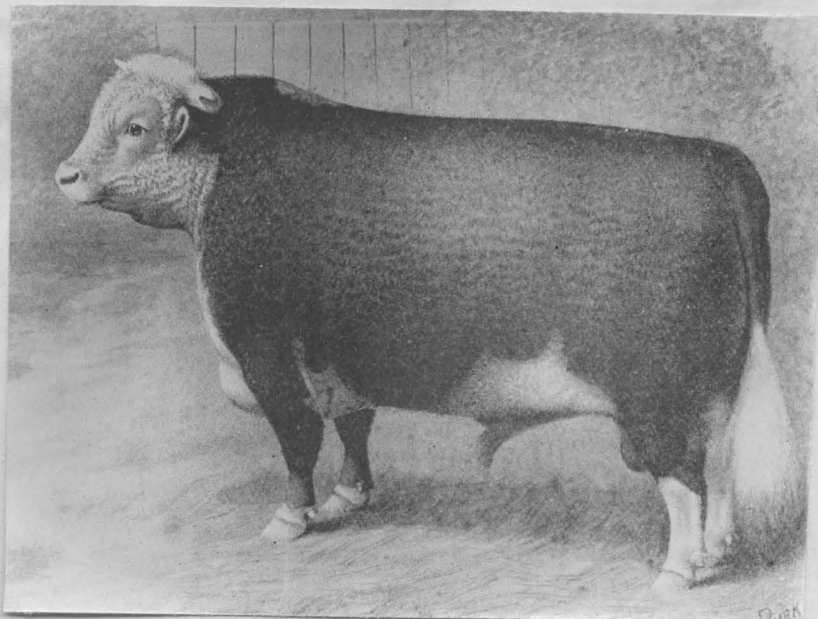
		Regulus	Sir Roger
		3849	3850
			Bonnie
			3851
	Quickset	Spot	Horace
	6853(6127)	3339	2492
			Spot
			3340
	Garfield	Challenge	Santiago
	7015	1561(3005a)	1572
			Damsel
			37
	Plum	Plum	North Star
	7016	7017	1563
			Plum
			7018
	Earl of Shadeland 41	Sir Roger	Sir Thomas
	33378	3850	20
			Daisy
			3852
	Lord Wilton	Lady Claire	Marmion
	4057(4740)	4116	4117
			Lady Adforton
	Gertrude Wilton		3953
	19017	Rodney	DeCote
		2563(4907)	2243
			Regina
	Gertrude		2244
	19018	Gaylass	Long Horns
		9905	2239(4711)
			Lofty
			9906
		Sir Roger	Sir Thomas
		3850	120
			Daisy
			3852
	Lord Wilton	Lady Claire	Marmion
	4057	4116	4117
			Lady Adforton
	Prince Edward		3953
		De Cote	Tomboy
		2243	2249
			Bermaid
			2250
	Lilac	Fanny	Heart of Oak
	7002	7005	2251
			Alathas
			7004
	Pet	Anxiety	Long Horns
	36054	2238	2239
			Helena
			2240
	Anxiety 3rd	Tiny	Long Horns
	4466(6181)	4467	2239
			Rosebud
			2568
	Jessie 4th	Young Sir Frank	Sir Frank
	10907	2669	2674
			Perfection
			2675
	Jessie	Tidy	Leominster
	2668	2670	2644
			Tidy 2nd
			2671

Z<sub>1</sub> = 00  
 Z<sub>2</sub> = 12.5  
 Z<sub>3</sub> = 12.5  
 Z<sub>4</sub> = 15.625

Student's Name -----

Dale, No. 66481, is one of the greatest sires of the breed. He was a show bull as well as an extraordinary breeder and is out of Rose Blossom, by Peerless Wilton.

Peerless Wilton has practically the same ancestry as Earl of Shadeland 41st, in that both their sires are Garfield and their dams both sired by Lord Wilton, thus making Dale intensely line bred.



Breed -----  
Sex -----  
Dropped -----  
Bred by -----  
Owned by -----

Columbus  
51875

Earl of Shadeland 41  
53378

Pet  
36054

Garfield  
7015

Gertrude Wilton  
19017

Prince Edward  
7001

Jessie 4th  
10907

Peerless Wilton  
12774

Auctioneer  
9572

Blossom  
12866

Blowdy  
12867

Quickset  
6853

Plum  
7016

Lord Wilton  
4057

Gertrude  
19018

Lord Wilton  
4057

Lilac  
7002

Anxiety 3d  
4466

Jessie  
2668

Quickset  
6853

Plum  
7016

Lord Wilton  
4057

Delight  
6959

Horace 2nd  
4353

Miss Spot  
9573

Grand Duke  
3006

Blowdy  
6092

Regulus  
3849

Spot  
3339

Challenge  
1561  
Plum  
7017

Sir Roger  
3850

Lady Claire  
4116

Rodney  
2563  
Gaylass  
9905

Sir Roger  
3850

Lady Claire  
4116

DeCote  
2243  
Fanny  
7003

Anxiety  
2238

Tiny  
4467

Young Sir Frank  
2669

Tidy  
2670

Regulus  
3849

Spot  
3339

Challenge  
1561  
Plum  
7017

Sir Roger  
3850

Lady Claire  
4116

Sir Frank  
2674  
Eva  
6960

Horace  
2492

Damsel 2nd  
4354

Challenge  
1561

Spot  
3340

Horace  
2492

Mitty  
3227

Horace  
2492

Blowdy  
6093

Dale  
66481

- Z<sub>1</sub> = 00
- Z<sub>2</sub> = 12.5
- Z<sub>3</sub> = 25
- Z<sub>4</sub> = 25

Student's Name -----

Perfection, No. 92891, is out of Melly May, No. 41752, who traces to Anxiety in the third generation, proving that an intensely line bred bull like Dale when bred to an exceptionally good individual carrying a small percentage of Anxiety blood such as Melly May will give excellent results.



Breed -----  
 Sex -----  
 Dropped -----  
 Bred by -----  
 Owned by -----

Columbus  
51875

Dale

Rose Blossom  
39225

Hoosier Tom  
7732

Melly May  
41752

Rosebud  
6606

Earl of Shadeland  
41st  
33378

Pet  
36054

Peerless Wilton  
12774

Blossom  
12866

Anxiety 2nd  
4580

Isabel  
4577

President  
2058

Carabasset Rose  
2120

Garfield  
7015

Prince Edwards  
7001

Jessie 4th  
10907

Garfield  
7015

Peerless  
10902

Blowdy  
12867

Anxiety  
2238(5188)

Alice  
4658

Corsair  
4581(5271)

Juliet  
4578

Chieftain  
2059(3747)

Leonora  
2060

Kennebec Hero  
2100(4677)

Necklace 6th  
2105

Quickset  
6853  
Plum  
7016

Lord Wilton  
4057(4740)  
Gertrude  
19018

Lord Wilton  
4057  
Lilac  
7002

Anxiety 3d  
4466

Jessie  
2668

Quickset  
6853  
Plum  
7016

Lord Wilton  
4057  
Delight  
6959

Horace 2nd  
4353

Miss Spot  
9573

Grand Duke  
3006

Blowdy  
6092

Longhorns  
2239(4711)

Helena  
2240

Long Horns  
2239

Juanita  
4659

Dictator  
4661(4511)

Rhodia  
2246

Prince Arthur  
4582(3345)

Julia  
4579

The Moreton  
Hero-  
673(3519)

Princess 2nd  
929

Albany  
2182(4298)

Hortense

Ontario Chief  
1511

Bessie  
1873

Compton Lad  
1527

Necklace  
1363

Perfection  
92891

- Z1 = 00
- Z2 = 00
- Z3 = 6.25
- Z4 = 15.625

Student's Name -----



Perfection Fairfax, No. 179767, whose dam is Berna, and Berna is sired by Fairfax, who traces to Lord Wilton on the sire's side. The dam of Fairfax, Decima, is an intensely line bred animal carrying "The Grove 3rd" blood. "The Grove 3rd" is one of the great foundation sires of the breed.

Perfection Fairfax is considered the "King of Herefords" at the present time.

