

LD
5655
A762
no. 81
c. 2



Dairy Guidelines

COOPERATIVE EXTENSION SERVICE, V.P.I., BLACKSBURG, VIRGINIA

Series 81 - November 1967

Cow Index

VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY LIBRARIES

The Breeding Value of Virginia DHIA Dairy Cows

Ron Buffington, Extension Specialist
John M. White, Research Geneticist
W. N. Patterson, Extension Specialist

1. Top 2 Percent:

Seventy-seven Virginia cows were ranked by U.S.D.A. in the top 2% of all registered cows in the nation. U.S.D.A. takes the milk production records on all registered cows and ranks them. Those cows receiving an A+ for superior milk production are reported twice yearly in the National D.H.I.A. Cow Performance Index. In the March 1967 publication (ARS-44-187), 5727 cows, of which 77 were Virginia cows, received an A+ and were listed. These Virginia breeders are to be commended. Included information on the cows in this report are:

- A. Owner's name and address.
- B. Registration numbers of the cow and her sire.
- C. Completed records for the cow.
- D. Average production based on all lactations completed by the cow.
- E. The Cow Index based on milk production.
- F. Latest proof of sires with daughters in this report.

2. They are High Producers:

The final determination of cows to be listed is based on milk yield. A cow must be registered and must be sired by an A-I or Non A-I proven bull. However, of most importance is her ability to produce superior quantities of milk.

Differences in index ratings among cows are unimportant since all cows included in the listings fall into the highest genetic level for milk production. Since each cow received an A+, it is difficult to tell which one is more outstanding.

3. Cow Index - A True Breeding Value:

Index ratings are a means of evaluating the genetic or breeding value of cows. These ratings are obtained by selection index methods which combine several different sources of information in such a way that the index corresponds closely with the cow's true breeding value. The index used here includes information on the cow's own production, expressed as the average deviation from her herd mates, and the contribution from the sire's proof. This index procedure produces the most accurate possible assessment of breeding value by taking appropriate account of the degree of genetic influence on milk yield, the number of lactations of the cow, and the number of paternal half-sisters. The index is expressed in terms of a difference from zero. Naturally, all milk values in this report are positive.

4. Planned Matings:

The cows in this report represent the population from which future Dairy sires should be selected. Planned matings of these cows to top AI sires as a possible source of young sires for testing in AI would be highly desirable. However, the information in this report should be supplemented by other information from the herd. A personal evaluation of herd practices, type score appraisals of the cow, and observation of other offspring are also highly important.

5. All Sires Have Some Superior Daughters:

It should be noted that 34 of the 46 sires represented in this list are plus proven on the herd mate deviation basis. The fact that the daughter average for each bull is much lower than the production of the 77 cows listed in this report is further evidence that sires proven to be superior on the herd mate comparison basis will improve production in almost any herd. The few outstanding daughters of negative bulls point up the fact that most bulls have at least a few high producing daughters, but the better bulls have a much higher percentage.

VIRGINIA JERSEY COWS LISTED IN THE USDA TOP 2% COW INDEX

MARCH 1967

Dairyman	Address	Cow's No.	Sire's No.	No. Records	Average Production of Cow			Cow Index	
					Days	Milk	Fat	Milk	Fat
R. F. Hill, Jr.	Orange	2403351	581840	3	305	12,390	695	1,706	98
Jim Huffard	Crockett	2362923	577328	3	305	11,763	562	1,648	71
Jim Huffard	"	2454718	581654	1	305	11,630	558	1,220	55
Wyatt Williams	Orange	2406171	572137	3	305	13,927	775	1,188	93

JERSEY SIRES OF ABOVE COWS

Sire's No.	Sire's Name	No. Daus.	Avg. Milk Production/Dau.	Predicted Difference
572137	Fancy Sable's Commando	107	9,151	+ 108
577828	Ozark Ruby's Nobleman	8	9,702	+1351
581654	Bixy's Jolly Cavalier	5	7,575	- 132
581840	Champions Tristram Challenger	<u>44</u>	<u>8,431</u>	+ <u>98</u>
These 4 Sires have an average of				+ 159

VIRGINIA HOLSTEIN COWS LISTED IN THE USDA TOP 2% COW INDEX

MARCH 1967

Dairyman	Address	Cow's No.	Sire's No.	No. Records	Average Production of Cow			Cow Index	
					Days	Milk	Fat	Milk	Fat
John Arthur	Rustburg	5249146	1263152	3	303	18,443	655	1,953	76
K. O. Bailey	Mount Crawford	3901841	1112211	6	266	18,797	697	2,009	71
J. T. Bowman	McGaheysville	5805249	1237057	1	305	24,370	838	2,146	65
W. L. Dickerson	Cullen	5764537	1189870	2	305	18,380	625	2,028	59
C. N. Elam	Powhatan	5230074	1330918	3	287	20,327	726	1,913	66
C. N. Elam	Powhatan	4075307	1223904	6	305	19,428	825	1,912	99
David Evans	Concord	5698128	1223904	1	305	20,700	641	1,752	43
David Falk	Williamsburg	4320984	1070036	3	305	18,220	593	2,020	69
Ralph Fields	Purcellville	5269902	1299488	3	305	19,023	714	1,729	54
G. L. Harlow	Culpeper	4673829	1305032	3	298	16,790	567	1,776	38
P. C. Hatch	Fredericksburg	4879778	1112211	3	305	18,633	701	1,813	68
R. A. Hope	Purcellville	5447492	1189870	2	305	21,310	925	2,090	103
John Hunt	Culpeper	4946391	1319023	3	305	21,737	745	1,959	53
Mrs. W. W. Hurt	Bristol	5692501	1259069	1	305	20,650	603	1,885	35
J. A. Kincaid	Mt. Jackson	5937746	1379208	1	305	14,680	546	1,745	63
Jerry Michael	Arlington	5908088	1244009	1	305	21,340	672	1,826	37
Jerry Michael	"	5259975	1070036	3	305	20,520	681	1,801	64
Jerry Michael	"	5259977	1070036	3	298	19,810	686	1,733	71
Harold Miller	Dayton	5628824	1252142	2	293	20,665	650	1,735	33
Charles Moyer	Amelia	5081396	1303103	4	305	19,498	623	1,852	26
Charles Moyer	Amelia	5384208	1223904	2	305	20,000	703	1,771	47
Charles Moyer	"	5614628	1382541	1	305	24,800	787	1,765	41
Park Forrest Farm	Baskerville	5313841	1263152	3	289	19,663	660	1,784	58
A. S. Puelicher	Lincoln	5349616	1189870	1	305	20,970	819	2,175	86
A. S. Puelicher	"	4982181	1189870	3	305	20,747	763	2,150	82
Richardson Bros.	Marion	5960125	1222994	1	293	19,950	771	1,730	76
Harvey Shaffer	Front Royal	5463131	1244845	2	305	20,140	700	1,987	54
Harvey Shaffer	Front Royal	5111116	1311794	3	302	20,947	764	1,980	69
Shomo Brothers	Keezletown	5181777	1216873	2	299	19,275	654	1,739	68
J. K. Short	Tazewell	4948349	1274806	3	300	18,270	629	2,706	87

Dairyman	Address	Cow's No.	Sire's No.	No. Records	Average Production of Cow			Cow Index	
					Days	Milk	Fat	Milk	Fat
Paul Simmers	Dayton	5329133	1303103	3	297	23,997	837	3,387	104
Smith Brothers	Ruther Glen	5100616	1320306	3	305	20,123	707	2,005	73
Bryant Smith, Jr.	Culpeper	5162828	1154946	2	304	17,425	633	1,822	59
C. G. Smith	Fairfield	5737230	1244845	1	305	25,440	772	2,157	46
Robert Smith	Beaverdam	5330072	1330918	4	305	22,348	787	2,386	70
Trivelda Farm	The Plains	4264451	1112211	4	299	19,085	709	2,047	64
W. D. Vinyard	Vinton	5351223	1244845	3	305	18,283	637	1,928	40
G. Weston Wall	Blacksburg	5436010	1381736	2	305	20,740	710	1,766	51

HOLSTEIN SIRES OF ABOVE COWS

Sire's No.	Sire's Name	No. Daus.	Avg. Milk Production/Dau.	Predicted Difference
1070036	Pabst Sir Comet Oliver	2006	14,092	+ 859
1112211	Pabst Reburke Duke	1892	15,340	+1034
1154946	Northmoor Alert Michael	2588	14,445	+ 542
1189870	Osborndale Ivanhoe	10802	14,506	+ 477
1216873	Rolling Knoll Supreme	383	13,419	+ 480
1222994	Harden Farms Duke Mark	1222	15,452	+ 870
1223904	Winterthur Excel Alpha Inkle	604	13,892	+ 400
1237057	Irvington Pride Admiral	2441	15,434	+ 942
1244009	Lavacres Var Pepper	129	15,722	+ 762
1244845	Gray View Skyliner	6546	15,071	+ 783
1252142	Distinction Laddie Colony	222	14,222	+ 553
1259069	Poestenkil1 Leader Belle Boy	2794	15,296	+ 727
1263152	Wipledale Korndyke Prince	1005	13,623	+ 147
1274806	Dina Burke Glenafton Rag Apple	21	14,383	+ 838
1299488	Sisson Farms Hannah King	39	14,213	+ 394
1303103	B.D.I. Adagove Champ	37	14,832	+ 862
1305032	Hollins Hilwood	9	17,708	+3115
1311794	Skokie Dunloggin Boy	596	14,120	+ 210
1319023	S.V.F. Marvel Dutchland Mario	34	14,622	- 820
1320306	B.D.I. Varimpgove Laddie	66	15,722	+ 431

Sire's No.	Sire's Name	No. Daus.	Avg. Milk Production/Dau.	Predicted Difference
1330918	B.D.I. Paulbual Oliver	61	14,886	- 35
1379208	B.D.I. Master Olaf	166	14,355	+ 992
1381736	Wallmac Segis Burke Haze Ideal	9	16,502	+1013
1382541	Oakmulgee Tidy Topper	11	16,067	+ 339
These 24 Sires have an average of		1403	14,750	+ 651

VIRGINIA BROWN SWISS COWS LISTED IN THE USDA TOP 2% COW INDEX

MARCH 1967

Dairyman	Address	Cow's No.	Sire's No.	No. Records	Average Production of Cow		Cow Index		
					Days	Milk	Fat	Milk	Fat
Ben Kanegy	Stuarts Draft	436550	118783	2	283	14,450	629	1,976	106
Shirley Smith	Weyers Cave	410584	124652	2	305	23,785	927	3,253	119
Shirley Smith	Weyers Cave	404729	124652	2	305	19,480	803	1,993	81

BROWN SWISS SIRE'S OF ABOVE COWS

Sire's No.	Sire's Name	No. Daus.	Avg. Milk Production/Dau.	Predicted Difference
118783	Babe's Sargeant	41	14,364	+1663
124652	Welcome In Supreme	471	12,541	+ 135
These 2 Sires have an average of		256	12,686	+ 257

VIRGINIA GUERNSEY COWS LISTED IN THE USDA TOP 2% COW INDEX
MARCH 1967

Dairyman	Address	Cow's No.	Sire's No.	No. Records	Average Production of Cow			Cow Index	
					Days	Milk	Fat	Milk	Fat
John Alger	Broadway	2188071	549235	1	305	18,490	683	2,163	46
John Alger	"	2167555	549235	2	305	15,625	633	2,118	50
John Alger	"	2188068	549235	1	272	14,130	552	1,341	17
Andrick and Whissen	Broadway	2180941	549235	1	305	14,980	691	1,642	43
Andrick and Whissen	"	2178318	549235	1	305	14,700	690	1,548	43
Arthur Bartenslager	Churchville	2309651	475595	1	305	14,060	737	1,332	80
Bayville Farms	Virginia Beach	2146702	511244	2	305	14,760	660	1,983	63
Bayville Farms	"	2089519	544226	3	305	13,647	669	1,625	79
Bayville Farms	"	2159640	511244	1	305	14,010	572	1,390	30
Bayville Farms	"	2132481	511244	2	305	12,735	614	1,388	53
Bayville Farms	"	1979347	535492	4	305	13,040	530	1,386	21
Bayville Farms	"	2132826	498974	2	305	13,385	570	1,339	33
Bayville Farms	"	2132833	498974	2	305	13,750	708	1,283	73
Bayville Farms	"	2057565	544226	3	303	13,213	642	1,252	61
Bayville Farms	"	2132864	511244	2	305	12,745	593	1,230	40
Sam Bell	Dublin	2180459	511244	1	287	11,240	516	1,310	46
Sam Bell	"	2118709	511244	2	281	10,775	427	1,309	24
Sam Bell	"	2180460	511244	1	305	10,990	445	1,226	30
Sam Bell	"	2118708	511244	2	284	10,430	480	1,217	39
Brandon Farm	Spring Grove	2015242	541672	3	305	14,073	604	1,360	37
Dan Brubaker	Dayton	2139946	548052	1	305	15,540	802	1,313	71
Ford Harris	Powhatan	2110698	530980	2	303	12,130	621	1,404	79
J. C. Houck	Fredericksburg	2067819	475595	1	305	13,810	673	1,506	76
N. L. Houck	Mineral	2067829	475595	1	300	11,750	597	1,318	72
John Myers	Harrisonburg	2161134	511244	2	305	16,540	753	2,120	73
John Myers	"	2149560	511244	2	304	15,780	748	1,838	68
John Myers	"	2161133	511244	2	298	13,745	633	1,309	38
Pine Grove Dairy	Portsmouth	2214032	527802	2	305	16,280	777	1,896	87
Pine Grove Dairy	"	2214056	511244	1	305	16,340	746	1,714	61
Pine Grove Dairy	"	2037498	527802	2	305	14,795	650	1,420	45

Dairyman	Address	Cow's No.	Sire's No.	No. Records	Average Production of Cow		Cow Index		
					Days	Milk	Milk	Fat	
Pine Grove Dairy	Portsmouth	2057480	527802	2	305	14,315	702	1,352	67
Pine Grove Dairy	"	2214054	541672	1	305	16,310	734	1,310	49
David Turner	Staunton	2197621	549235	1	305	14,640	683	1,554	35
Morris Yoder	Denbigh	2134141	511244	2	304	12,080	583	1,240	41

GUERNSEY SIRES OF ABOVE COWS

Sire's No.	Sire's Name	No. Daus.	Avg. Milk Production/Dau.	Predicted Difference
475595	Yellow Creek Jewel Supreme	1613	10,517	+ 846
498974	Bayville General Dollar	25	9,341	- 4
511244	Burger's Place Billy	2010	10,333	+ 646
527802	Hollikno11 Captain	99	10,600	+ 206
530980	Minoborya A. Beau	18	8,188	+ 783
535492	Bayville Royal Duke	31	9,642	- 191
541672	Hollikno11 Elect	20	10,569	+ 144
544226	Bayville Royal Virginian	28	9,476	- 72
548052	Shenmont Royal Leslie Marcus	16	12,770	+ 478
549235	Gayoso View Top Command	<u>789</u>	<u>10,762</u>	<u>+ 969</u>
These 10 Sires have an average of				+ 745