

**2022-23 VIRGINIA BEEF CATTLE IMPROVEMENT ASSOCIATION
CENTRAL BULL TEST STATION SUMMARY**

Prepared by: Scott P. Greiner, Extension Animal Scientist, Beef
Virginia Tech, Blacksburg, Virginia

Central bull testing programs for the performance evaluation and marketing of Virginia Beef Cattle Improvement Association member's bulls were carried out at two test stations located at Culpeper and in Southwest Virginia during the test season 2022-23. One test group was developed at the Culpeper location and two test groups were developed at the Southwest location, and a total of two sales held.

I. CULPEPER

This was the 65th consecutive year of evaluating bulls at the Culpeper station. Virginia BCIA contracted with Riverview Farms Cattle LLC at Louisa, Virginia to furnish development facilities, and provide complete care and management for a Senior group of bulls. The Culpeper Senior Bull sale was held at the Culpeper Agricultural Enterprises at Culpeper, Virginia. Virginia BCIA handled consignments, set rules, regulations and performance standards and certified records, and generally supervised the tests and sales, utilizing a committee composed of interested consignors with Kenneth Payne serving as Chair.

(1) THE BULLS AND THE MANAGEMENT

Twenty seven Virginia BCIA members including: 26 Virginia and 1 West Virginia breeders tested bulls. One hundred forty eight Senior bulls, including 138 regular test and 10 custom test bulls (calved Aug. 15 to Nov. 30, 2021), were delivered to Riverview Farms June 28, went on 112 day test July 12 and came off test November 1, 2022. Bulls accepted for test were required to have a WDA of 2.5 pounds at delivery (with allowable shrink), and have a minimum EPDs based on breed (Virginia Quality Assured Feeder Calf Program genetic standards). Bulls met interstate health shipment requirements at delivery, and in addition had a negative anaplasmosis test, negative PI BVD test, and were required to be vaccinated for Clostridial diseases, IBR, PI3, BVD, BRSV, and Haemophilus Somnus before delivery. Upon arrival at the test station bulls received a MLV intranasal IBR/PI3 vaccination, and were boosted for 7-strain clostridial and treated for internal and external parasites with an endectocide product. At the beginning of the official test (14 days after arrival) all bulls received a booster of MLV 5-way viral product (IBR, BVD Types I and II, PI3, BRSV). To be sale eligible bulls had to have a minimum frame score of 5.0, meet minimum YW EPD requirements as specified by the Virginia Quality Assured Feeder Calf Program, pass a breeding soundness exam (including semen evaluation as per Society for Theriogenology). Additionally, a committee evaluated all bulls for structural soundness and bulls found to be unacceptable structurally were not sold. A Sale Index comprised of 2/3 station index (station index = 2/3 test yearling weight ratio + 1/3 test ADG ratio) and 1/3 average EPD percentile (20% CE EPD, 20% WW EPD, 20% YW EPD, 20% MM EPD, 10% MB EPD, 10% REA EPD) was used to eliminate additional bulls to arrive at the number eligible for the sale. Bulls were required to meet all registration requirements from their respective breed associations including genotype related to genetic defects (bulls DNA-genotyped as necessary as part of the test). Coat color genotype was performed on bulls as needed. Approximately 70% of the bulls were cataloged for the sale. A portion of the bulls not qualifying for the sale were sold for slaughter at the conclusion of the test.

(2) RATIONS

Rations were formulated in cooperation with Virginia Tech Extension Animal Scientists. The feed was furnished by Glenmary Farm (raised or purchased). Feed ingredients were charged at cost, plus a mark-up per ton of finished feed. Rations were formulated to contain 74% TDN and 14% crude protein (dry basis). Bulls were fed daily in fence-line feed bunks.

The following ingredients comprised the majority of the Senior ration: corn silage, corn, distillers grain, and commercial supplements. Ingredients were included based on availability and price. Chlortetracycline was fed during the warm-up period. A complete mineral containing an ionophore was included in the total mixed rations.

(3) **PERFORMANCE EVALUATION**

Bulls were weighed at 56 days and each successive 28 days. Ultrasound evaluation for fat thickness, ribeye area and percent intramuscular fat was conducted near the end of test. All ultrasound data was processed through a centralized ultrasound processing laboratory and submitted to respective breed associations. At the end of the test bulls were weighed, measured for hip height, evaluated for structural soundness, and had a complete breeding soundness exam, including a semen evaluation. At the end of the test, 60 Senior bulls were removed from the sale group based on failure to meet one or more minimum performance standards, soundness criteria, or were retained for home use. The remaining 76 bulls were cataloged.

AVERAGE PERFORMANCE BY AGE AND BREED
CULPEPER 2022

CULPEPER SENIOR (112 Day)	Weaning	Test						Ultrasound		
	Adj. WW	Final Wt.	ADG	Adj YW	WDA	Frame Score	Scrotal Cir.	365-d Fat th.	365-d REA	365-d %IMF
86 Angus	669	1269	3.61	1153	3.08	5.4	36.3	0.25	12.6	3.48
2 Braunvieh Hybrid	799	1228	2.72	1156	3.15	5.8	36.0	0.23	14.2	2.02
3 Charolais	684	1310	3.20	1135	3.06	6.7	36.5	0.21	13.6	2.59
2 PB Gelbvieh	639	1320	3.65	1185	3.22	5.7	39.0	0.17	13.4	3.12
6 Gelbvieh Bal.	674	1301	3.82	1206	3.27	5.8	36.1	0.30	12.8	3.05
7 Hereford	677	1221	3.12	1124	3.04	5.7	35.6	0.24	11.7	2.56
2 Red Angus		1115	2.98	976	2.65	5.0	34.8	0.19	12.5	2.54
9 Simmental	678	1217	3.02	1102	2.97	5.3	36.3	0.20	13.9	2.28
19 SimAngus	631	1293	3.47	1151	3.04	5.7	37.2	0.20	13.3	2.91
136 Seniors	662	1266	3.51	1148	3.07	5.5	36.4			

CULPEPER SR CUSTOM (112 Day)	Weaning	Test						Ultrasound		
	Adj. WW	Final Wt.	ADG	Adj YW	WDA	Frame Score	Scrotal Cir.	365-d Fat th.	365-d REA	365-d %IMF
7 Angus	657	1251	3.80	1165	3.08	5.4	36.7	0.28	12.3	3.66
3 SimAngus	671	1195	3.27	1120	2.98	6.2	37.5	0.22	11.6	3.10
10 Custom	659	1235	3.64	1151	3.05	5.6	37.3			

(4) **SALE RESULTS**

The Senior sale was held December 10, 2022 at Culpeper Ag Enterprises. The sale was conducted using a video sale format (videos shown, bulls not put through sale ring but present on site) and managed by Virginia BCIA.

All pertinent information was published in the sale catalog, including: BW/ratio, WW/ratio, test YW/ratio, test ADG/ratio, off-test weight, frame score, scrotal circumference, adjusted carcass ultrasound measurements/ratios, CED EPD, BW EPD, WW EPD, YW EPD, DOC EPD, MCE EPD, MM EPD, Carcass/Ultrasound EPDs for fat thickness, REA, and MB; bioeconomic index EPDs (available for each breed), EPD percentiles (for BW, WW, MM, YW), birth date, two-generation pedigree, sire EPDs/accuracies, dam EPDs, dam WW record, horned/poled/scurred status, coat color genotype, and registration/consignor information. Genomically-enhanced EPDs were included on all bulls cataloged (required).

Prior to the sale, sale bulls were videoed individually and the video made available on the BCIA website in conjunction with an electronic copy of the catalog. LiveAuctions.tv was utilized to offer online bidding option to buyers. Free delivery of bulls to buyers was advertised and offered as a sale service.

A minimum floor price of \$2500 was established for the sale, and all bulls sold at or above the floor price. A total of 2 Angus bulls sold out of state to WV.

SALE RESULTS – CULPEPER 2022

SENIOR BULLS

<u>NUMBER</u>	<u>BREED</u>	<u>GROSS</u>	<u>AVERAGE</u>
43	Angus	\$169,750	\$3,948
1	Braunvieh Hybrid	\$2,500	\$2,500
2	Charolais	\$7,250	\$3,625
2	PB Gelbvieh	\$9,750	\$4,895
3	Gelbvieh Balancer	\$11,500	\$3,833
4	Hereford	\$16,000	\$4,000
1	Red Angus	\$3,000	\$3,000
2	PB Simmental	\$7,500	\$3,750
11	SimAngus	\$47,250	\$4,295
69		\$274,500	\$3,978

(5) **PROGRAM COSTS**

Consignors paid Riverview Farms \$200 per bull at delivery as feed cost deposit, along with a \$75 per head fee for facilities and management.. All other expenses for testing and sales were deducted or billed for after the sale. Of the \$45.00 per head consignment fee, \$10 went to a BCIA self-insurance fund for indemnity on bulls which die while on test and pays the consignor the value of the bull as a feeder calf at delivery, and \$3 went for mortality insurance coverage against fire, lightning, wind, etc. The remaining \$32.00 went to BCIA for program management. Test costs included feed costs, yardage charged at \$0.50 per head per day, actual medical cost charged on an individual bull basis, and ultrasound fees at cost. Sale cost was charged on bulls selling as a percentage of sale price. Post test costs were charged on a per head per day basis to cover feed and yardage after the completion of the test. Sale preparation charges included labor fee, plus charges for hauling and freeze branding. Sale costs (advertising, catalog, ring help, online bidding, etc.) were charged at cost as a percentage of the gross. Discounts of \$50 per bull were available to buyers purchasing three or more bulls, and this was included as a sale cost. Virginia BCIA received 3.0% of the sale gross for sale management services. Culpeper Agricultural Enterprises, Inc. was paid a flat fee for use of their facility and this was considered a sale cost.

AVERAGE TEST AND SALE COST (BULLS SOLD)
per head basis

		Culpeper Sr.
<u>EXPENSES 2022</u>		
<u>Test Costs</u>		
Feed		\$496.30
Yardage		63.00
Medical, Eartags, Processing		71.75
Ultrasound		19.20
Consignment Fee		45.00
Total Test Costs		\$695.25
<u>Post-Test & Sale Costs</u>		
Post Test Feed/Yardage (days)		170.00 (38)
Sale Preparation Fee		44.00
Sale Expenses*		413.31 (10.39%)
Transfer Fee, Checkoff, etc.		6.50
Total Post Test & Sale Costs		\$633.81
Grand Total Costs	2022	\$1329.06
Grand Total Costs	2021	\$1194
Test/Sale (Sale Exp%)		\$638/\$556 (10.4%)
	2020	\$1128
		\$572/\$557 (11.0%)
	2019	\$1090
		\$560/\$531 (12.4%)
	2018	\$1045
		\$544/\$501 (11.6%)
	2017	\$978
		\$499/\$478 (11.0%)
Sale Average	2022	\$3,978
	2021	\$3,336
	2020	\$3,814
	2019	\$3,252
	2018	\$3,161
	2017	\$3,096
Consignor Net	2022	\$2,649 (67%)
(% of sale price)	2021	\$2,141 (64%)
	2020	\$2,686 (70%)
	2019	\$2,162 (66%)
	2018	\$2,116 (67%)
	2017	\$2,118 (68%)

*Sale Expenses include fees charged as percentage of sale gross (sale management, auctioneer) and expenses charged at cost (sale facility, catalog printing/postage, advertising, online bidding, ringmen, sale labor, multiple bull purchase discounts, etc.).

II. SOUTHWEST

Virginia BCIA contracted with Brian and Kayla Umberger, Mountain Spring Farm at Wytheville, Virginia to furnish development facilities and provide complete care and management for a Senior and Junior group of bulls for the Southwest Bull Test Station. This was the 44th year of operation for the Southwest station, and the sixth year the bulls had been developed at Mountain Spring Farm. Virginia BCIA handled consignments, set rules, regulations and performance standards and certified records, and generally supervised the tests and sales, utilizing a committee composed of interested consignors with Mark DeHaven as Chair.

(1) THE BULLS AND THE MANAGEMENT

Forty eight Virginia BCIA members, including breeders from Virginia (30), North Carolina (4), Tennessee (10) and West Virginia (4) tested bulls in the Senior and Junior tests. One hundred three bulls for the Senior test (calved September 1 to December 31, 2021), and 115 Junior test bulls (calved January 1 to March 31, 2022) were delivered on October 4 went on test October 25, 2022 and came off test on February 14, 2023. Senior and Junior bulls were sold together on March 25, 2023. Minimum entry and sale requirements as well as health requirements were same as for Culpeper. Breeding soundness exams for Senior bulls included semen evaluation (Junior bulls exam only). Bulls were required to meet all registration requirements from their respective breed associations including genotype related to genetic defects (bulls DNA-genotyped as necessary as part of the test). Coat color genotype was performed on bulls as needed. Approximately 70% of the bulls were cataloged for the sale. A portion of the bulls not qualifying for the sale were sold for slaughter at the conclusion of the test.

(2) RATIONS

A corn silage based ration supplemented with custom-formulated commodity pellet, dry corn, and alfalfa haylage. The ration contained 74% TDN and 13% crude protein (dry basis). An ionophore was included in the ration. Feed was charged at delivered cost, plus a mark-up per ton of finished feed.

(3) PERFORMANCE

Bulls were weighed at 56 days and each 28 days thereafter. Procedures for handling performance were the same as for Culpeper. At the end of the test, 37 Seniors and 42 Juniors were removed from the sale group and were eliminated on failure to meet one or more minimum performance standards, soundness criteria, or were retained for home use. The remaining 63 Senior and 72 Junior bulls were cataloged

AVERAGE PERFORMANCE BY AGE AND BREED
SW VIRGINIA 2022-23

SW VIRGINIA SENIOR (112 Day)	Weaning	Test						Ultrasound		
	Adj. WW	Final Wt.	ADG	Adj YW	WDA	Frame Score	Scrotal Cir.	365-d Fat th.	365-d REA	365-d %IMF
50 Angus	687	1266	2.84	1000	2.91	5.4	35.4	0.12	11.3	3.52
1 Charolais	657	1145	1.91	1025	2.69	6.3	32.5	0.11	11.5	3.19
5 Gelbvieh	622	1316	3.02	991	2.61	5.6	34.5	0.12	11.8	1.77
6 Gelbvieh Bal.	692	1405	3.07	1082	2.86	5.7	35.6	0.13	11.8	2.36
8 Hereford	661	1219	3.01	957	2.48	5.2	34.2	0.14	10.1	2.69
3 Red Angus	585	1250	2.99	953	2.50	5.3	37.0	0.19	11.6	2.68
9 Simmental	672	1171	3.04	1023	2.65	5.4	33.4	0.15	11.5	3.22
18 Simm. Hybd.	651	1321	2.99	1042	2.74	5.6	36.0	0.15	11.4	2.87
100 Seniors	670	1273	2.92	1009	2.64	5.5	35.2			

SW VIRGINIA JUNIOR (112 Day)	Weaning	Test						Ultrasound		
	Adj. WW	Final Wt.	ADG	Adj YW	WDA	Frame Score	Scrotal Cir.	365-d Fat th.	365-d REA	365-d %IMF
51 Angus	705	1070	2.80	1076	2.90	5.5	33.0	0.19	12.2	3.39
8 Charolais	644	1056	2.72	1033	2.74	5.7	34.1	0.14	12.5	2.37
5 Gelbvieh	681	969	2.42	1003	2.71	5.6	32.9	0.14	12.3	1.97
1 Gelbvieh Bal.	704	1115	2.94	1049	2.86	5.7	40.0	0.19	11.7	2.58
11 Hereford	609	873	1.89	923	2.50	5.2	30.7	0.13	10.0	2.21
18 Simmental	690	1058	2.62	1081	2.87	5.7	34.3	0.14	12.7	2.79
20 Simm. Hybd.	671	1049	2.72	1053	2.82	5.4	34.0	0.17	12.1	2.82
114 Juniors	685	1040	2.65	1051	2.83	5.5	33.3			

(4) **SALE RESULTS**

One sale including both Senior and Junior bulls was held March 25, 2023. The sale was conducted using a video sale format (videos shown, bulls not put through sale ring but present on site) and managed by Virginia BCIA.. Catalog content was the same as for Culpeper Senior. A minimum floor price of \$2500 for Senior bulls and \$2000 for Junior bulls was established by the test and sale committee. There were 5 bulls which failed to bring the floor price (3 Senior Angus, 2 Junior Angus).

CowBuyer.com was utilized as online sale provider. Phone bidding via teleauction was also available. Free delivery of bulls to buyers within 250 miles was advertised and offered as a sale service. Following the sale, bulls and heifers were delivered to buyers, primarily by consignors with a few hauled and charged as sale expense.

Six Senior (2 Angus, 1 Hereford, 3 Simmental Hybrid) and 13 Junior bulls (3 Angus, 3 Charolais, 3 Simmental, 4 Simmental Hybrid) were sold out-of-state: Senior: 1 NC, 1 PA, 1 TN, 3 WV; and Juniors: 7 TN, 6 WV.

The BCIA-Influenced Bred Heifer Sale was not held in 2023.

SALE RESULTS – SW VIRGINIA 2023

<u>NUMBER</u>	<u>BULL BREED</u>	<u>GROSS</u>	<u>AVERAGE</u>
59	Angus	\$215,950	\$3,660
7	Charolais	\$25,250	\$3,607
5	Gelbvieh	\$14,750	\$2,950
4	Gelbvieh Balancer	\$14,000	\$3,500
7	Hereford	\$18,750	\$2,679
2	Red Angus	\$6,750	\$3,375
16	Simmental	\$51,750	\$3,234
24	Simm. Hybrids	\$100,500	\$4,188
124		\$447,700	\$3,610

<u>BREED</u>	<u>SENIOR BULLS</u>		<u>JUNIOR BULLS</u>	
	<u>NO.</u>	<u>AVERAGE</u>	<u>NO.</u>	<u>AVERAGE</u>
Angus	27	\$4,026	32	\$3,352
Charolais	1	\$3,250	6	\$3,667
Gelbvieh	3	\$2,917	2	\$3,000
Gelbvieh Balancers	4	\$3,500		---
Hereford	4	\$2,813	3	\$2,500
Red Angus	2	\$3,375		---
Simmental	3	\$3,917	13	\$3,077
Simm. Hybrid	11	\$5,455	13	\$3,115
Total	55	\$4,081	69	\$3,236

(5) **PROGRAM COSTS**

Consignors paid Southwest Bull Test Station a feed deposit of \$200 per bull at delivery, along with a \$50 per head fee for facilities and management. All other expenses for testing and sales were deducted or billed for after the sale. Test and sale costs were calculated on the same basis as Culpeper tests. Sale preparation charges included clipping/cleaning fee, plus hauling charges. Discounts of \$50 per bull were available to buyers purchasing two or three bulls, as well as a discount of \$100 per bull that was available to buyers purchasing four or more bulls, and this was included as a sale expense.

AVERAGE TEST AND SALE COST (BULLS SOLD)
per head basis

		SW VA Sr.	SW VA Jr.
<u>EXPENSES 2022-23</u>			
<u>Test Costs</u>			
Feed		\$484.23	\$408.11
Yardage (test days on feed)		67.50 (112)	67.50 (112)
Medical, Eartags, Processing		35.95	18.30
Ultrasound		18.86	34.35
Consignment Fee		45.00	45.00
Total Test Costs		\$651.54	\$573.26
<u>Post-Test & Sale Costs</u>			
Post Test Feed/Yardage (days)		179.36 (39)	176.70 (39)
Sale Preparation Fee		42.00	42.00
Sale Expenses*		384.43 (9.42%)	304.83 (9.42%)
Transfer Fee, Checkoff, etc.		4.16	4.16
Total Post Test & Sale Costs		\$609.95	\$527.69
Grand Total Costs 2022-23		\$1261.49	\$1100.95
Grand Total Costs	2021-22	\$1256	\$1116
Test/Sale (Sale Exp. %)	2021-22	\$716/\$540 (8.2%)	\$621/\$494 (8.2%)
	2020-21	\$1218	\$1079
	2020-21	\$705/\$513 (7.7%)	\$600/\$479 (7.7%)
	2019-20	\$1167	\$1023
	2019-20	\$657/\$511 (9.1%)	\$553/\$469 (9.1%)
	2018-19	\$1179	\$1029
	2018-19	\$670/\$509 (8.9%)	\$567/\$462 (8.9%)
	2017-18	\$1255	\$1144
	2017-18	\$725/\$530 (9.1%)	\$626/\$518 (9.1%)
Sale Average	2022-23	\$4,081	\$3,236
	2021-22	\$3,751	\$3,259
	2020-21	\$3,815	\$3,589
	2019-20	\$3,367	\$3,100
	2018-19	\$3,036	\$2,635
	2017-18	\$2,964	\$2,831
Consignor Net	2022-23	\$2,820 (69%)	\$2,135 (66%)
(% of sale price)	2021-22	\$2,495 (67%)	\$2,143 (66%)
	2020-21	\$2,597 (68%)	\$2,510 (70%)
	2019-20	\$2,199 (65%)	\$2,077 (67%)
	2018-19	\$1857 (61%)	\$1,606 (61%)
	2017-18	\$1,709 (58%)	\$1,743 (62%)

*Sale Expenses include fees charged as percentage of sale gross (sale management, auctioneer) and expenses charged at cost (catalog printing/postage, advertising, online bidding, ringmen, sale labor, multiple bull purchase discounts, etc.).

III. **PERFORMANCE AND TEST SUMMARY - TEST SEASON 2022-2023**

2022-2023 VA. BCIA CENTRAL BULL TEST STATIONS PERFORMANCE

	Culpeper Sr	SW VA Sr	SW VA Jr	TOTAL
BREED	ADG YW NO.	ADG YW NO.	ADG YW NO.	ADG YW NO.
Angus	3.61 1153 86	2.84 1000 50	2.80 1076 51	3.18 1091 187
Braunveih Hybrid	2.72 1156 2			2.72 1156 2
Charolais	3.20 1135 3	1.91 1025 1	2.72 1033 8	2.77 1058 12
Gelbvieh	3.65 1185 2	3.02 991 5	2.94 1049 5	2.88 1028 12
Gelbvieh Balancers	3.82 1206 6	3.07 1082 6	3.21 1226 1	3.41 1137 13
Hereford	3.12 1124 7	3.01 957 8	1.89 923 11	2.57 988 26
Red Angus	2.98 976 2	2.99 953 3		2.99 962 5
Simmental	3.02 1102 9	3.04 1023 9	2.62 1081 18	2.83 1072 36
Simm. Hybrid	3.47 1293 19	2.99 1042 18	2.72 1053 20	3.06 1082 57
TOTAL	3.51 1148 136	2.92 1009 100	2.65 1051 114	3.06 1077 350

IV. SALES SUMMARY - TEST SEASON 2022-2023

2022-2023 VA BCIA CENTRAL BULL TEST STATION SALE AND BREED AVERAGES

	Culpeper Sr		SW Virginia		TOTAL	
Angus	43	\$169,750	59	\$215,950	102	\$385,700
Avg.		\$3,948		\$3,660		\$3,781
Braunvieh Hybrid	1	\$2,500		-----	1	\$2,500
Avg.		\$2,500		-----		\$2,500
Charolais	2	\$7,250	7	\$25,250	9	\$32,500
Avg.		\$3,625		\$3,607		\$3,611
Gelbvieh	2	\$9,750	5	\$14,750	7	\$24,500
Avg.		\$4,895		\$2,950		\$3,500
Gelbvieh Bal.	3	\$11,500	4	\$14,000	7	\$25,500
Avg.		\$3,833		\$3,500		\$3,643
Hereford	4	\$16,000	7	\$18,750	11	\$34,750
Avg.		\$4,000		\$2,679		\$3,159
Red Angus	1	\$3,000	2	\$6,750	3	\$9,750
Avg.		\$3,000		\$3,375		\$3,250
Simmental	2	\$7,500	16	\$51,750	18	\$59,250
Avg.		\$3,750		\$3,234		\$3,292
Simm. Hybrid	11	\$47,250	24	\$100,500	35	\$147,750
Avg.		\$4,295		\$4,188		\$4,221
2022-23 Totals	69	\$274,500	124	\$447,700	193	\$722,200
Avg.		\$3,978		\$3,610		\$3,742
2021-22 Totals	66	\$220,150	138	\$475,350	204	\$695,500
Avg.		\$3,336		\$3,445		\$3,409
2020-21 Totals	48	\$183,050	127	\$466,600	175	\$649,650
Avg.		\$3,814		\$3,674		\$3,712
2019-20 Totals	49	\$159,350	115	\$371,450	164	\$530,800
Avg.		\$3,252		\$3,230		\$3,237
2018-19 Totals	51	\$161,200	124	\$346,350	175	\$507,550
Avg.		\$3,161		\$2,793		\$2,900
2017-18 Totals	54	\$167,200	134	\$386,800	188	\$554,000
Avg.		\$3,096		\$2,887		\$2,947

V. COMPARISON BY PRICE – 2022-23

AVERAGE SALE PRICES BY THIRDS 2022-23

SALE	TOP 1/3		MIDDLE 1/3		BOTTOM 1/3		TOTAL	
	NO.	PRICE	NO.	PRICE	NO.	PRICE	NO.	PRICE
Culpeper Senior	23	\$5,054	23	\$3,859	23	\$3,022	69	\$3,978
SW Virginia Sr.	18	\$5,569	19	\$3,789	18	\$2,900	55	\$4,081
SW Virginia Jr.	23	\$4,326	23	\$3,163	23	\$2,217	69	\$3,236
SW Virginia All	41	\$4,921	42	\$3,457	41	\$2,457	124	\$3,610
ALL SALES	64	\$4,973	65	\$3,631	64	\$2,624	193	\$3,742

VI. **TOTAL NUMBER OF BREEDERS TESTING BULLS**

2022-2023 BREEDERS TESTING BULLS

	Culpeper Sr.	SW VA Sr.	SW VA Jr.	Total
Angus	21 (1)	20 (7)	17 (5)	39 (11)
Braunvieh Hybrid	1			1
Charolais	2	1 (1)	2 (1)	4 (1)
Gelbvieh	2	2	3	4
Gelbvieh Bal.	3	3	1	4
Hereford	2	3 (2)	5 (4)	8 (4)
Red Angus	1	2 (1)		3 (1)
Simmental	3	4 (2)	9 (2)	13 (3)
Simm. Hybrid	6	8 (4)	6 (2)	17 (4)
		34 (13)	31 (11)	
2022-23 Totals	27 (1)	48 (18)		63 (19)
2021-22 Totals	29 (3)	53 (22)		71 (24)
2020-21 Totals	24 (2)	45 (16)		58 (17)
2019-20 Totals	20 (4)	39 (17)		51 (21)
2018-19 Totals	21 (5)	48 (17)		61 (22)
2017-18 Totals	19 (3)	47 (11)		55 (13)
2016-17 Totals	18 (3)	47 (9)		56 (12)
2015-16 Totals	18 (5)	46 (13)		52 (14)
2014-15 Totals	14	40 (12)		46 (12)
2013-14 Totals	11	39 (9)		44 (9)
2012-13 Totals	14 (1)	47 (12)		52 (13)
2011-12 Totals	12 (1)	42 (10)		53 (11)
2010-11 Totals	14 (2)	35 (6)		44 (8)

() Denotes out-of-state Breeders

VII. VA BCIA SALE ELIMINATION CRITERIA SUMMARY 2022-2023

**2022-23 Virginia BCIA Central Bull Tests and Sales
Sale Elimination Criteria Summary**

	Culpeper Sr.	SW Virginia Sr.	SW Virginia Jr.	Total
No. Bulls Delivered	138	103	115	356
No. Bulls Completing Test	136	100	114	350
No. Bulls Not Completing Test (health, injury, etc.)	2	3	1	6 (1.7%)
No. Bulls Eliminated from Sale Post-Test	60	37	42	139
No. Bulls Cataloged for Sale	76	63	72	211
No. Bulls Cataloged but not Sold	7	8	3	18 (8.5% cataloged)
Scratched- BSE/semen evaluation	6	5	NA	11 (7.9% Srs. cataloged)
Scratched- other (injury, etc.)	1	0	1	2 (0.9% cataloged)
No sales	0	3	2	5 (2.4 % cataloged)
Criteria for Sale Elimination^a:	No. Bulls	No. Bulls	No. Bulls	No. Bulls (% completing test)
< Minimum YW EPD or no EPDs	2	2	2	6 (1.8%)
Frame Score < 5.0	10	9	3	22 (6.4%)
Unsuitable Disposition	4	2	0	6 (1.8%)
Undesirable Feet and Leg Structure	6	3	1	10 (2.9%)
Unsatisfactory Breeding Soundness Exam	4	11	17	32 (9.4%)
< Minimum Scrotal Circumference	3	11	16	30
Testicular/penile abnormality/injury	1	0	1	2
Penile warts	0	0	0	0
Seminal vesiculitis	0	0	0	0
Epididymitis	0	0	0	0
Other	1	4	0	5 (1.4%)
Retained by Breeder	0	1	0	1 (0.3%)
Low Sale Index ^b	31	8	23	62 (18.1%)

^aBulls may be eliminated from sale for failing to meet one or more criteria.

^bSale Index = 2/3 Station Index (2/3 YW ratio + 1/3 ADG ratio) + 1/3 EPD average percentile ranking. Sale index used to eliminate additional bulls (after eliminating those that fail to meet other minimum criteria) to arrive at target sale number within each breed.

IX. VA BCIA CENTRAL BULL TEST STATION SUMMARY 1999-2023

VA BCIA CENTRAL BULL TESTS & SALES 1999-2023

YEAR	Culpeper Sr Tested/ADG Sold / Price		Culpeper Jr Tested/ADG Sold / Price		SW VA Sr Tested/ADG Sold / Price		SW VA Jr Tested/ADG Sold / Price		TOTAL Tested/ADG Sold / Price	
1999	125	3.34	113	3.82	60	3.62	140	3.43	438	3.53
	81	\$1,792	71	\$1,454	40	\$1,935	97	\$1,699	289	\$1,697
2000	124	3.99	125	3.50	64	3.66	157	3.48	470	3.64
	75	\$1,412	71	\$1,423	42	\$1,818	103	\$1,574	293	\$1,530
2001	92	3.96	113	3.81	80	3.79	115	3.62	400	3.79
	62	\$2,015	72	\$1,525	51	\$2,329	77	\$1,977	262	\$1,931
2002	101	3.89	100	4.00	65	3.76	155	3.41	421	3.72
	62	\$1,906	60	\$1,876	42	\$1,805	106	\$1,498	270	\$1,723
2003	105	3.37	88	3.67	91	3.39	119	3.29	402	3.42
	62	\$1,734	53	\$1,517	60	\$1,573	81	\$1,428	256	\$1,555
2004	128	3.69	89	3.97	82	3.44	105	3.37	404	3.62
	72	\$2,125	55	\$2,081	54	\$2,508	62	\$2,311	243	\$2,248
2005	127	3.77	95	3.74	87	3.80	108	3.81	417	3.78
	75	\$2,597	50	\$2,375	54	\$2,656	76	\$2,395	255	\$2,506
2006	138	3.82	99	3.84	82	3.95	122	3.66	441	3.80
	82	\$2,449	55	\$2,105	51	\$3,051	78	\$2,446	266	\$2,492
2007	131	3.48	105	3.86	86	3.88	127	3.79	449	3.73
	75	\$1,979	50	\$1,963	50	\$2,241	82	\$1,993	257	\$2,031
2008	115	4.03	71	3.42	92	3.46	119	3.63	397	3.67
	65	\$1,777	38	\$1,703	58	\$2,057	77	\$2,273	238	\$1,994
2009	92	3.95	56	3.44	105	3.89	102	3.61	355	3.75
	51	\$2,061	21	\$1,588	62	\$2,100	71	\$2,147	205	\$2,054
2010	93	4.13	-----	-----	102	3.33	105	3.27	300	3.56
	52	\$1,950	-----	-----	58	\$2,362	69	\$2,122	179	\$2,150
2011	84	4.27	-----	-----	66	3.74	103	3.65	253	3.88
	49	\$2,228	-----	-----	48	\$2,817	75	\$2,613	172	\$2,560
2012	85	3.54	-----	-----	68	3.81	120	3.92	273	3.77
	48	\$3,019	-----	-----	47	\$3,423	89	\$3,319	184	\$3,318
2013	86	3.42	-----	-----	98	3.35	110	3.56	294	3.45
	53	\$3,160	-----	-----	62	\$2,746	72	\$2,808	187	\$2,887
2014	87	2.97	-----	-----	87	3.38	104	3.26	278	3.21
	52	\$2,658	-----	-----	65	\$4,197	73	\$3,559	190	\$3,531
2015	96	3.46	-----	-----	84	3.12	104	3.19	284	3.26
	60	\$4,915	-----	-----	61	\$5,230	79	\$4,311	200	\$4,794
2016	86	4.19	-----	-----	92	3.05	132	3.21	310	3.43
	51	\$3,671	-----	-----	55	\$3,742	84	\$3,292	190	\$3,524
2017	82	3.65	-----	-----	95	3.33	126	3.11	303	3.32
	36	\$3,099	-----	-----	55	\$3,366	67	\$3,075	158	\$3,182
2018	109	4.06	-----	-----	91	3.57	142	3.00	342	3.48
	54	\$3,096	-----	-----	56	\$2,964	78	\$2,831	188	\$2,947
2019	108	3.52	-----	-----	88	3.43	139	3.21	335	3.37
	51	\$3,161	-----	-----	49	\$3,036	75	\$2,635	175	\$2,900
2020	92	3.95	-----	-----	80	3.57	90	3.25	262	3.59
	49	\$3,252	-----	-----	56	\$3,367	59	\$3,100	164	\$3,237
2021	106	3.51	-----	-----	92	3.18	110	3.10	308	3.27
	48	\$3,814	-----	-----	48	\$3,815	79	\$3,589	175	\$3,712
2022	119	3.68	-----	-----	89	3.71	134	3.51	342	3.62
	66	\$3,336	-----	-----	52	\$3,751	86	\$3,259	204	\$3,409
2023	136	3.51	-----	-----	100	2.92	114	2.65	350	3.06
	69	\$3,978	-----	-----	55	\$4,081	69	\$3,236	193	\$3,742

X. VA. BCIA CENTRAL BULL TEST STATION SUMMARY 1959-2023

YEAR	TESTED			SOLD	
	NO.	ADG	ADJ. YW	NO.	AV. PRICE
1959	67	2.56	843	64	\$636
1960	111	2.41	816	85	503
1961	119	2.42	859	63	746
1962	90	2.48	837	78	573
1963	83	2.37	821	67	687
1964	99	2.37	874	89	583
1965	118	2.35	889	76	563
1966	85	2.64	928	77	792
1967	108	2.48	875	88	702
1968	184	2.37	910	151	659
1969	184	2.64	933	153	867
1970	173	2.55	927	133	797
1971	164	2.62	929	115	815
1972	124	2.78	960	71	1,054
1973	270	2.68	934	172	801
1974	296	2.70	954	203	1,192
1975	356	2.83	962	197	794
1976	334	2.94	971	197	983
1977	363	2.76	970	218	841
1978	346	2.57	956	199	840
1979	338	2.81	987	208	1,501
1980	492	3.11	1022	300	1,536
1981	519	3.07	1034	325	1,495
1982	606	2.99	1023	344	1,271
1983	601	2.99	1042	355	1,297
1984	591	2.96	1046	336	1,317
1985	575	3.19	1067	340	1,287
1986	594	3.15	1084	356	1,219
1987	523	3.09	1076	339	1,375
1988	559	3.19	1077	372	1,609
1989	596	3.18	1083	405	1,748
1990	613	3.15	1080	412	1,818
1991	607	3.35	1111	418	1,836
1992	616	3.52	1128	417	1,900
1993	615	3.24	1100	412	1,863
1994	621	3.23	1100	422	1,762
1995	590	3.28	1108	400	1,832
1996	618	3.11	1093	405	1,365
1997	596	3.41	1100	390	1,677
1998	599	3.28	1120	399	1,701
1999	438	3.53	1150	289	1,697
2000	470	3.64	1170	293	1,530
2001	400	3.79	1196	262	1,931
2002	421	3.72	1190	270	1,723
2003	402	3.42	1124	256	1,555
2004	404	3.62	1150	243	2,248
2005	417	3.78	1163	255	2,506
2006	441	3.80	1192	266	2,492
2007	449	3.73	1200	257	2,031
2008	397	3.67	1204	238	1,994
2009	355	3.75	1170	205	2,054
2010	300	3.56	1167	179	2,150
2011	253	3.88	1182	172	2,560
2012	273	3.77	1163	184	3,318
2013	294	3.45	1139	187	2,887
2014	278	3.21	1089	190	3,351
2015	284	3.26	1079	200	4,794
2016	310	3.43	1128	190	3,524
2017	303	3.32	1113	158	3,182
2018	342	3.48	1127	188	2,947
2019	335	3.37	1126	175	2,900
2020	262	3.59	1118	164	3,237
2021	308	3.27	1123	175	3,712
2022	342	3.62	1141	204	3,409
2023	350	3.06	1077	193	3,742

XI. NUMBERS TESTED AND SALE RESULTS FOR ALL YEARS COMBINED

Includes all bulls at Culpeper, Dublin, Foster Falls, Red House and Wytheville, 1959-2023. 24,073 have been tested and 15,320 have been sold.

<u>NO. SOLD</u>	<u>BREED</u>	<u>GROSS</u>	<u>AVERAGE</u>
9649	Angus	\$18,037,453	\$1,869
2	Ankina	2,800	1,400
13	Brangus	14,645	1,127
5	Braunvieh & Braunvieh %	10,400	2,080
863	Charolais	1,442,770	1,672
2	Devon	1,075	538
448	Gelbvieh & Gelbvieh Balancer	1,118,624	2,497
2114	Hereford & Polled Hereford	2,548,514	1,206
117	Limousin	178,487	1,526
1	Rangsey	550	550
60	Red Angus	83,782	1,396
1	Red Poll	500	500
41	Salers	51,126	1,247
18	Santa Gertrudis	19,300	1,072
43	Shorthorn	25,825	601
12	Simbrah	12,275	1,023
1920	Simmental & Simm. Hybrid	4,354,282	2,268
11	Tarentaise	11,630	1,057
15,320		\$27,914,042	\$1,822