

MIDLAND BULL TEST

Steve & Lindsay Williams
Leo & Sam McDonnell

406/ 322-5597 • 406/ 322-9044 • Fax 406/ 322-5210
1640A Hwy 10 • Columbus, MT 59019
www.MidlandBullTest.com • bulls@midlandbulltest.com

— Banquet Schedule —

Little Metra in Columbus, MT
(see map and directions page 136)

April 6 • 6:00 pm Social • 6:30 pm Steak Fry
Allison Sunstrum, GrowSafe Systems

April 7 • 6:00 pm Social • 6:30 pm Steak Fry
Dr. John Paterson, MSU Extension

April 8 • 6:00 pm Social • 6:30 pm Steak Fry
Kick Back and Relax with Kyle Shobe, guitar & vocals
Entertainment provided by Stockman Bank

*This catalog contains all breeds and all bulls
that are selling, including the final test report*

Angus Lots 1-610	Murray Grey 1261-1274
Red Angus 796-963	Hereford 1275-1290
Salers 1050-1196	South Devon 1300-1321
Gelbvieh 1200-1252	Simmental 1350-1396
Charolais 1253-1260	Braunvieh 1400-1491

Sale Day Phones

406/ 322-5597 • 406/ 322-9044
Sale Day Only — 406/ 322-9911

M Sale and Test Location

Midland Bull Test Facility, Columbus, Montana.
See map and directions on page 136.

M Lunch

Lunch will be served at all sales.

M Airlines

Columbus: A 2600 ft., paved, lighted airstrip,
Unicom 122-8. Buzz us and we'll be happy to
assist with transportation from airstrip.

Billings: Logan International Airport is served by
United Airlines, Frontier, SkyWest, Horizon and
numerous commuter airlines.

M Accommodations

Columbus:
Gits Big Sky Motel, Columbus 406/ 322-4111
Super 8 Townhouse, Columbus 406/ 322-4101

Billings:
Holiday Inn West 406/ 248-7701
Kelly Inn 406/ 252-2700
Motel 6 406/ 248-7551
Ramada 406/ 255-2548

Laurel:
Super 8 406/ 628-6888

— Sale Days —

Wednesday, April 7, 2010

Gelbvieh • 12 noon

Followed by: Salers • 1:00 pm
Charolais, Simmental

Thursday, April 8, 2010

Red Angus • 12 noon

Followed by: South Devon, Hereford,
Murray Grey and Braunvieh

Friday, April 9, 2010

Angus Bull Sale • 11:00 am
(awards begin at 10:30)

M Auctioneers

Joe Goggins, Roger Jacobs, Jim Birdwell

M Breed Field Reps

American Angus, Andy Rest
American Red Angus, Greg Comstock
American Salers, Dean Pike
Braunvieh Association of America, Ron Bolze
American Simmental, Marty Ropp
North American South Devon, Lynn Giess
American Gelbvieh, Wayne Vanderwert
American Hereford, Ben Brillhart
American-International Charolais, Dennis Metzger

M Livestock Publication Representatives

John Goggins, *Western Ag Reporter*, 406/ 698-4159
Jerry Gliko, *Western Livestock Journal*, 406/ 860-3181
Don Ravellette, *Cattle Business Week*, 605/ 685-5147
Bill Pelton, *Bill Pelton Livestock*, 406/ 671-5100
Dwayne Dietz, *Western Ag Reporter*, 406/ 672-8500
Bill Angel, *Wyoming Livestock Roundup*, 970/ 396-5594
Curt Cox, *Wyoming Livestock Roundup*, 307/ 630-4604
Bill Schermer, *Special Assignment*, 641/ 425-2641
Ryan Roen, *Tri-State Livestock News*, 406/ 698-7685



All Sales Broadcast Live Audio on
www.frontierstockyards.com

Buyer must pre-register and have a buyers number to bid.

See page 7 for further information.





*No One Offers You More
Because No One Has More to Offer!*

MGenetic Defects – We tested any Midland bull that had a potential carrier anywhere in their pedigree for Arthrogyrosis Multiplex (Curly Calf Syndrome), Neuropathic Hydrocephalus (NH or Waterhead) or Osteopetrosis (OS). All bulls to be sold tested negative.

MSale Order – Determined by Midland Bull Test Index and Estimated Sale Value. Sale orders will be posted online prior to sale and available sale day.

MUltimate in Quality – The largest proven performance program in the world. Over 1,000 bulls are on feed. These bulls were selected at weaning from over 20,000 bull calves representing the top five percent.

MA Sound, Proven Program – Proven through competition, Midland bulls are unsurpassed in providing more trait leaders in the major breeds than any other breeder, test station or the combined effort of the major stock shows.

MSuperior Maternal Traits – These Midland calves were selected from the top performance herds representing the top cows and the top herd sires of their respective breeds. Average Nursing Ratio is 106.

MIntegrity – We place the highest value on testing and merchandising bulls and it is the backbone of any progressive breeding program.

MData – As always, Midland Bull Test will provide complete performance data with all available EPDs.

MDelivery – Cattle purchased in our sale will be delivered to CENTRAL locations, such as stockyards, in the lower 48 states up to 400 miles without cost to the buyer.

MFertility Tested & Guaranteed – Complete semen and scrotal evaluations on all bulls are performed by John Smith, DVM, Three Forks, MT. ***Scrotal measurements for group 1 (*) were taken mid-February. Group 2 (***) were taken March 7 & 8. All are published as actual size.*** For projected sale date size, add 1.5 cm. Animals failing to breed after trial period may be returned to the seller if in good condition. If animal proves to be a non-breeder, a satisfactory exchange will be made or the purchase price less salvage value will be refunded at the buyer's discretion. All guarantees are between buyer and seller.

MTerms Are Cash – When making settlement, please leave specific instructions in writing for transfer and shipping. Each animal will be sold to the highest bidder with the auctioneer settling any dispute as to bids. Announcements made from the auction block take precedence over any printed material. Each animal will be at purchaser's risk as soon as sold. Livestock will be cared for following the sale at the buyer's risk and responsibility.

MTerms & Conditions – These sales are being conducted under the suggested sale terms and conditions adopted by the American Angus Association.

MTransfer of Registration – On all cattle in this sale that are registered, the registration papers will be transferred to their new owner at the seller's expense after settlement has been made.

MHealth – All cattle will be sold according to the health regulations of the State of Montana. Buyers must be aware of any variations between the laws of the states. All bulls have tested BVD-PI negative.

M1/3 or 1/4 Revenue Sharing Semen Interest – Many breeders have elected to retain semen interest in their bulls. The buyer will have full possession and full salvage value. The seller, if he/she desires to collect semen, will do so in the off-breeding season at the seller's expense and the buyer's convenience. If the buyer opts to participate in semen sales, then buyer and seller will work out a mutual agreement. Over the years it has been Midland's experience that most sellers do not exercise this option on bulls going into commercial herds.

MEfficiency Test – Bulls are denoted as *(group 1) or **(group 2). RFI is given in this catalog, complete efficiency test results are available at www.MidlandBullTest.com. See page 10 for further information.

MMidland's Goal – We would like every bull sold at Midland to have a positive economic impact on your herd and exceed your expectations.

Everyone attending the sale does so at their own risk. The owners and Midland assume no liability, legal or otherwise, for any accidents which may occur.

MIDLAND BULL TEST

*Steve & Lindsay Williams
Leo & Sam McDonnell*

Dear Cattlemen and Friends,

Welcome to our 48th annual bull sale here at Midland. What was started by a small handful of serious cattle producers has now become the industry standard - measuring cattle for traits of economic importance. We hope you will be able to join us April 7th, 8th and 9th for our Midland Bull Test Sales and a complimentary dinner held each preceding night.

No matter what direction the industry goes, there are some things that will never change: the importance of a fertile, efficient cow herd that can perform with minimum management and provide strong net returns; the ability to pass on to the breeder, feeder and consumer genetics that add value to their purchase and meet expectations; and most important, to breed cattle that allow our families and future generations an opportunity to participate in this great industry and lifestyle we've been blessed with. At Midland, we run one of the strictest culling programs in the country, and we hope we've put together a set of bulls that meet your standards.

This year's bulls are very powerful. We tested 1100 bulls and are only offering 750 to you. Many of these bulls would be used to start their respective breeders' sales. As a whole, the quality is strong and deep throughout our entire offering. We feel there are more herd bull prospects than ever before - thick, deep and functional that will leave behind a great set of females that will provide a long lasting impact on your bottom line.

Further, we have just completed our ninth efficiency trial (Midland Bull Test yearling bulls, and the summer efficiency with fall bulls and heifers) and are excited about the results we have gathered and the enthusiasm expressed by breeders and buyers alike. With feed costs compromising 70% of beef cattle production expenses, purchasing genetics from a supplier who measures and selects for more efficient cattle is one way our customers continue to drive down input costs. We are heartened by where the industry is headed. It is our intention this test will lead to vast improvements in the forage and feed efficiency of cattle because we are now able to identify individual animals with greater feed efficiency and propagate those genetics across the country. All data is being submitted to each breed association, and we are working with Dr. Gordon Carstens of Texas A&M, and Dr. Denny Crews, Colorado State University to generate an efficiency EPD.

As important as efficiency is, the other half of the testing equation is an animal's production. At Midland, we continue to focus on a balance of multiple traits. Let's use RFI and feed conversion as one more tool for selecting cattle that are efficient, but still have desired traits we want on the ranch.

To aid you in your bull selection process, we have individual videos of each bull available on our website. Further, we separated the Angus, Red Angus and Salers into low actual birth weight and low birth weight EPD groups again this year designated by green tags.

If we can be of assistance in making travel arrangements or accommodation reservations, let us know, we are happy to help. We would like to extend an invitation for you to stop by and preview the bulls any time. Steve would be happy to go through the bulls with you. Please do not hesitate to contact us with any questions you have regarding our program or sale offering.

Finally, while we would like to have you here on sale day, we realize for some it's just not possible. If unable to attend and you feel comfortable doing so, you can leave those bids with our family here at Midland, our auctioneers or our publication representatives. We handle many sight unseen bids and have very satisfied customers who feel confident in using that service. We prefer to have plenty of time to discuss your needs over the phone prior to sale day so we may select cattle that best fit your specifications. We buy those animals just like we were buying for ourselves, handling all bids in an honest and confidential manner. If you give us a bid on cattle you can be assured we will attempt to purchase the animal for under or at your specified bid.

Please bring this catalog with you to the sale as there will be only a limited number available. We Look forward to seeing you and thanks again for your continued support.

Steve & Lindsay - Leo & Sam

**1640 A Hwy 10 • Columbus, MT 59019 • www.MidlandBullTest.com
phone 406.322.5597 • fax 406.322.5210 • bulls@midlandbulltest.com**



Consignors and Lot Numbers

Angus

21 Angus Ranch	40	Elmose Angus Ranch	144	McCall Angus	149
3210 Angus	14, 15, 16	Emerald Lane Angus	386, 388	McCoy Angus	115, 116, 117
5K Farms	359	Emtman's Triple E Angus	175, 176, 177	MJB Ranch	596, 597
7X Ranches	50, 51, 52, 53, 56	Feasenhiser Angus	317, 318, 319	Mohogany Hollow	416, 417
Allison Dubs-Winding River Angus	132, 133, 134	Flat Mountain Ranch	438, 439, 440, 441, 443, 444, 445, 446	Mydland Angus Ranch	18, 19, 20
Angus Alliance Int'l LTD.	31, 33, 34, 35, 36	Flesch Angus	82	Mystic Hill Farm	179, 181, 299
Armstrong Angus Ranch	100, 102	Flying AJ Ranch	236, 237, 239, 240, 241, 242	Nelson Family Farms	37
Beaver Ridge Farm	204, 205, 207, 209	Four Ace Angus	537	Olind Angus	136, 137
Bee Haven Angus Ranch	118	Frey Family Angus	270	Packard Angus	109, 110, 112, 113, 114
Black Butte Angus	477, 478, 479	Frisbie Cattle Co.	83, 84	Painrock Angus Ranch	46, 47, 48, 49
Black Pine Farm	259, 260, 263	Galaxy Beef LLC	402, 403, 404, 405, 406	Peldo Angus	415
Blevins Angus Ranch	420, 421	Garcia Angus	21, 22	Pine Hill Angus	413, 414
Blu Top Farms	500, 50, 502	Gardiner Prime Angus	200, 201, 202, 203	Pine Valley Angus	558, 559
Blue Ston Farms	212, 214, 215	Garret Farms	251, 252, 253, 254, 257	Pioneer Angus Ranch	58, 59, 60
Bluegrass Angus Farm	229, 230, 231, 232, 233, 234, 235	Giem Angus Ranch	468, 469, 470, 471, 472	Pristine Springs Angus	105
Bobcat Angus	38	Giem Ranches Inc. (Loren)	506, 507, 509, 511	Pure Genetics Angus	138, 141
Borkdale Angus	384, 385, 554	Grandview Farms	575, 576, 577, 578, 579	R-Angus	70
Bowman Ranch	3	Granger Angus	218, 219, 220, 222, 223, 228	Rally Farms	277, 278, 281, 282
Brand Angus	555, 556, 557	Harrison Angus Ranch	154, 155, 156, 157, 158, 162, 163, 164, 165, 166, 167, 168, 170, 171, 172	Ray Sikes	582, 583
Bromenshenk Farms Inc.	503	Harvester Farm	264	Reddin Angus	497, 498
Brown Cattle Co.	210	Holly Hill Farm Corp.	390, 394, 397	Riverside Angus Ranch	321, 322
Brusett Angus	44	J M Angus Ranch LLC	361, 362	Rock'n D Ranch	539, 540
Buchanan Livestock	307	James Angus	570, 571	Rockin' Horse Genetics	89, 91
Bullinger Ranch	93	JL Farms	24, 25	Rocking R Cattle Co.	461, 462, 463, 464
Butternut Ridge Farms	72, 73, 74	Jocko Valley Cattle	294, 296, 298	Rolling Acres Angus	305, 306
Chris Cadle	407, 408, 409	Katrina Dubs-Winding River Angus	135	RT Angus	272
Clarks Fork Angus	5, 6, 7	Ken Hartzell	378, 379, 380	RV Bar Angus Ranch	174
Clay Creek Angus	367, 368, 369	Kimmel Angus	247	S Bar J Angus	332
Clear View Genetics	217	Krone Angus	26	S-H-B Angus	63, 64, 65, 66
Cole Creek Angus Ranch	11	L T J Angus	8, 9	Saddle Mountain Angus	425, 426
Cordingley Angus Ranch	585, 586, 588, 590, 592	Lakeview Cattle Co.	329, 33, 331	Sankeys 6N Ranch	520, 522
Crouthamel Cattle Co.	466, 467	Les Craft Angus	427, 428, 429	Scattering Creek Angus	484
CS Angus Ranch	87	Lienemann Cattle Co.	531, 532	Schrader Farm	375, 376
Dirks Stock Ranch	504	Lightning Creek Cattle	436, 437	Sheilded M Farms	474, 476
Dix Angus Ranch	525, 529	LK Bar Angus Ranch	450, 451, 452	Slate Run Farm	284, 287, 288
Doc Hinds	423, 424	Lowell Angus	449	Spencer Angus	337
Don Dansie	41	Lucky 7 Angus	1, 2	Steve Smith Angus	480, 483
Doug Brown Farms	85, 86	Malson Angus Ranch	370, 371, 373, 374	Sundberg Farms	182, 183, 185, 186, 187, 188, 189, 190, 191, 193, 194, 197, 198, 199, 341, 342, 343, 344, 345, 346, 348, 601, 603, 605, 606, 607, 608
Dry Branch Cattle Company	564, 565, 566, 568	Marda Angus Farm	312, 313, 314	Sunny Okanogan Angus	487, 488, 489, 490, 491, 492, 493, 494, 495
Drysdale Farms, Inc.	513, 514, 516, 517, 518			Sydenstricker Genetics	244, 246
Dutch Flat Angus	323, 324, 325, 326, 327			T4 Livestock	4
				Thousand Hills Angus	459, 460
				Tomsheck D&L	350, 351, 352, 353, 354, 356, 357
				Trails End Ranch	512



Consignors and Lot Numbers, continued

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Triple C Farms 273, 274
 TW Ela Cattle Co. 125
 Twin Creek Angus 550, 551, 553
 Vinson Ranch 94, 95, 96, 97, 99
 Weaver Angus Farm . . . 289, 290, 291, 292
 Whitestone Farms 266, 267, 268
 Willekes Angus . . . 430, 431, 433, 434, 435
 Willer Timber Ridge Farms 76, 77,
 78, 79, 80, 81
 Winding River Angus. 127, 128,
 129, 130, 131
 WMD Angus 23
 WPR Angus Division 418
 Wright Way Angus. 249
 XCR Angus. 534, 536
 Yellow Water Ranch. 381
 Younkin Angus/Rockin' Horse Genetic
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 Chatburn Ranch 956, 957, 958,
 959, 960, 961, 962
 Geffert Red Angus 889, 892
 Holden Ranch 900, 901, 902,
 904, 906, 907, 908, 909, 910,
 911, 913, 914, 916, 917, 918
 Klompfen Red Angus. 920, 924,
 925, 926, 927, 929, 930, 931,
 932, 933, 935, 937, 939, 940, 941
 Knaub Cattle Co. 850, 852, 854,
 855, 856, 858, 859, 862,
 863, 864, 866, 871, 872, 873
 Lakeview Cattle Co. 947, 949, 950
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 809, 811, 814, 815, 816, 817,
 818, 819, 820, 822, 823, 824, 825
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 Majestic Meadows 842, 844
 Paintrock Angus Ranch . . . 796, 797, 798
 Roberts Red Angus 846, 848, 849
 Rosebud Reds Red Angus 946
 Six Iron Ranch. 877, 880, 881
 Welsh Prairie Red Angus 883, 885
 West Fork Ranch 830, 831, 832,
 833, 834, 835, 836
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Ahtanum Valley Salers 1085, 1086,
 1088, 1089, 1090
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 1069, 1070, 1071, 1072
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 1153, 1154, 1155, 1156
 Elm Creek Ranch. 1118, 1119, 1120,
 1121, 1122, 1123, 1124, 1125,
 1126, 1127, 1128, 1129, 1131,
 1133, 1134, 1135, 1137, 1138,
 1141, 1142, 1143, 1144, 1145, 1146
 Fox Grape Farm. 1185, 1189, 1191, 1192
 Justin Dikoff. 1107, 1108, 1109, 1110,
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 K Bar K Cattle Co. 1091, 1092,
 1093, 1094
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 1102, 1103, 1104, 1105
 MJB Ranch 1095, 1096
 Neben Ranch. 1081, 1082, 1083, 1084
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 1079, 1080
 Parke Ranch. 1169, 1170, 1171, 1173,
 1174, 1175, 1177, 1178, 1180, 1183
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Gelbvieh

Arp Gelbvieh 1202, 1205, 1207, 1209
 Cranview Gelbvieh. 1248, 1249,
 1250, 1251, 1252
 Ledgerwood Gelbvieh 1200, 1201
 M Heart D Gelbvieh. 1241, 1242,
 1243, 1244, 1246, 1247
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 1218, 1220, 1221, 1222,
 1226, 1229, 1230, 1231, 1232,
 1234, 1235, 1237, 1238, 1239, 1240
 NN Bar Ranch 1212, 1213, 1214, 1215
 Russell Family Livestock 1210

Charolais

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 Desco Charolais Farm. 1260
 DMC Charolais 1254
 Muncy-Testerman Charolais 1253
 Tur-Crest Farm 1259

Murray Grey

Bull Schmitt Cattle Co. 1273
 Eagle Rock Murray Grey . . . 1269, 1270
 H Diamond Cattle Co. . . . 1262, 1263,
 1264, 1265, 1266, 1267

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Craig Herefords 1286, 1287, 1288
 Frisbie Cattle Co. 1275
 Malson Angus Ranch. . . . 1276, 1277, 1278
 R & R Farms 1279, 1280, 1284

South Devon

Dar Lynn Cattle Co. 1305, 1307
 MJB Ranch. 1311, 1312, 1313, 1314,
 1316, 1317, 1318, 1321
 X-E South Devon Ranch 1300, 1302

Simmental

Blue Hill Ranch 1353, 1357, 1358,
 1359, 1360, 1361, 1362, 1363
 Brown Cattle Co. 1351, 1352
 Clarks Fork Angus 1391, 1392
 Elm Creek Ranch. 1364, 1365,
 1366, 1367, 1369, 1370,
 1371, 1372, 1374, 1375
 MJB Ranch. 1395
 Nelson Family Farms. 1381, 1382,
 1383, 1384, 1385,
 1386, 1388, 1389, 1390
 Sundberg Farms 1350

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 1472, 1474, 1475
 Brink Livestock 1400, 1404,
 1405, 1406
 Darkside Braunvieh 1412
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 J Bar Braunvieh 1481, 1483,
 1484, 1485
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 1456, 1457, 1458,
 1461, 1462, 1463, 1464
 R & D Farms 1434, 1435, 1438
 Ridgefield Farm LLC 1430, 1431
 The Freeman Ranch 1489, 1490



Mary McDonnell von Forell Scholarship

Each year we award one junior with the high performing bull from all breeds with a \$500 scholarship from our family. We have renamed our scholarship in remembrance of Mary who passed away this last fall from cancer. She was an integral factor in the success of Midland Bull Test and she is dearly missed. She was a huge supporter of youth.

M Pre-Sale Award Presentations

Junior Member High Performing Bull (ANY Breed)

Angus

- Champion ADG Bull (Group 1 & Group 2)
- Champion WDA Bull (Group 1 & Group 2)
- Champion Low Birth ADG (Group 1 & Group 2)
- Champion Low Birth WDA (Group 1 & Group 2)
- Champion ADG Sire Group
- Champion WDA Sire Group
- World Champion Pen of 3
(Any 3 bulls w/ the same consignor)
- High Efficiency Angus Bull Group 1
- High Efficiency Angus Bull Group 2

Red Angus

- Champion ADG Bull
- Champion WDA Bull
- High Performing Red Angus Bull *(ADG/WDA Combo)*
- Champion ADG Sire Group
- Champion WDA Sire Group
- World Champion Pen of 3
(Any 3 bulls w/ the same consignor)
- High Efficiency Red Angus Bull

Salers

- Champion ADG Bull
- Champion WDA Bull
- High Performing Salers Bull *(ADG/WDA Combo)*
- World Champion Pen of 3
(Any 3 bulls w/ the same consignor)
- High Efficiency Salers Bull

Braunvieh

- Champion ADG Bull
- Champion WDA Bull
- High Performing Braunvieh Bull *(ADG/WDA Combo)*
- World Champion Pen of 3
(Any 3 bulls w/ the same consignor)
- High Efficiency Braunvieh Bull

Gelbvieh

- High Performing Gelbvieh Bull *(ADG/WDA Combo)*
- High Performing Gelbvieh Sire Group *(ADG/WDA Combo)*
- High Efficiency Gelbvieh Bull

Simmental

- High Performing Simmental Bull *(ADG/WDA Combo)*
- High Performing Simmental Sire Group *(ADG/WDA Combo)*
- High Efficiency Simmental Bull

South Devon

- Champion ADG Bull
- Champion WDA Bull
- High Efficiency South Devon Bull

Murray Grey

- High Efficiency Murray Grey Bull
- High Performing Murray Grey Bull *(ADG/WDA Combo)*

Hereford

- High Efficiency Hereford Bull
- High Performing Hereford Bull *(ADG/WDA Combo)*

Charolais

- High Performing Charolais Bull *(ADG/WDA Combo)*
- High Efficiency Charolais Bull



**Guy Invites you to
Dinner and the Sale!**

**I am nisse (nice) to evryewun
that comes to Midlin Bole Test
to have a dinr! I am glad four
you to come to eat!**

-Guy Williams

our 6 year-old kindergartner





A Special Thanks to Our Sponsors

ABS Global Beef

Accelerated Genetics, John Jackson

All-Flex USA, Scott Holt

Cache Valley Select Sires,

Jay Nansel

Elite Bovine Veterinary Services,

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Genex Beef, Dwain Hould

Genex Hawkeye West,

Stacie Buzanowski

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Intervet/Schering-Plough,

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Nutra-Lix, Pepe Paquin and the Yosts

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Super 8 Motels

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Vita-Ferm, John Tucker

World West Sire Services, Inc.



Semen Collection

Genex Hawkeye West

406/ 656-9034

- Will collect 150 units free on high selling bull from each breed

ORigen

406/ 348-2345

- Collection Gift Certificate on high selling bull each breed



All Sales Broadcast Live Audio on www.frontierstockyards.com

Here's How it Works!

1. Buyers must preregister and have buyer's number to bid. To preregister, call **406/ 322-5597**.
2. **Sale day internet phone is 406/ 322-9911**. Depending on the capabilities of your internet connection, you will either get audio or be able to view bidding prices. *A sale order will be posted. If you wish to bid on a bull, you will want to call a couple bulls in advance.*
3. Bidders who purchase bulls or heifers over the internet will be contacted following the sale to make arrangements for delivery and payment.

Watch it on the Internet and Bid on the Phone!!

Frontier Stockyards will broadcast the 2010 Midland Bull Test Sales "live" on April 7th, 8th and 9th over the internet. You will be able to see a video of each bull as he sells, hear the sale live and keep up with the bidding via a scrolling bid screen. You can also see and access pedigree information, EPD's and feed gain information on each bull. The higher speed your Internet connection is, the more information you will be able to view and hear. This is an excellent way to keep up with the sale and you can place your bid via your computer or the telephone bid lines.

In order to place bids on the Internet or over the phone on sale day, you must pre-register and obtain a bidder number and a password. To pre-register, call 406-322-5597 or 406-322-9044.

When you go to the log-in information page for the sale, make sure you read the directions carefully - you must enter information in two different boxes to log into the sale. We suggest you log on to the sale site well before the sale just to make sure you can. There won't be any bull information showing until right before the sale but you will at least be familiar with the process. **IMPORTANT:** When logging into the sale you will be asked for a paddle number and a password: Simply type the word "view" (without the quotation marks) into both boxes and login. **Sale day bid line is: 406-322-9911.**



Reading the Lot Data

Animal Information

calved - Birth Date. % - Breed Percentage. *color* - Animals hide color.
P/H/S - Polled/Horned/Scurred. *tattoo* - Ear tattoo.
reg - Registration Number given by respective Associations.

GrowSafe Feed Efficiency Test

Bulls are denoted as *(group 1) or **(group 2). RFI is given here in the test data, complete efficiency test results are available at www.MidlandBullTest.com. See page 10 for further information.

Pre-Test Animal Data

BW - Actual Birth Weight.
WW - Actual Weaning Weight.
205 Wt - Weaning Weight Adjusted to 205 days.
NR - Nursing Ratio, an index of the adjusted 205 day weight within the breeders herd only. It is an indication of the dam's maternal performance and the bull's preweaning growth.

Lot # **Consignor**
 Bull's Registered Name **

calved: x/x/xx % • *color* • p/h/s *tattoo*: xxxx *reg*: xxxxxx

GeneSTAR MVP Results

See page 11 for further information.

Pedigree

(# designates Pathfinder status in Angus)

BW	WW	205 Wt	NR	ADG	ADG Rat	365 Wt	YR	WDA	RFI	Finl Wt	MBT Ind	Scrtl
xx	xxx	xxx	xxx	x.xx	xxx	xxxx	xxx	x.xx	x.xx	xxxx	xxx	xx.x
				Milk	Year	Ultrasound/Carcass EPDs						
	BW	WW										
	x	x		x	x			x		x		x

footnote provided by consignor
Interest to be retained by consignor

GeneSTAR MVP	FE	MB	TE
.X	.X	.X	.X
x%	x%	x%	x%
Dam Production			
x	NR	xxx	
x	YR	xxx	

Final Test Report

ADG - Average Daily Gain.
ADG Rat - Average Daily Gain Ratio. 100 is average.
365 Wt - Adjusted 365 Day Weight (ADG x 160 Days) + 205 Day Weight = 365 Day Weight
YR - Yearling Ratio. Index of 365 Day Weights. 100 is average.
WDA - Actual Weight Per Day of Age (Lifetime ADG).
RFI - Residual Feed Intake / Net Feed Intake. (Actual feed intake minus expected feed intake) See page 8.
Final Wt - Final Test Weight on 2/7/09 or 3/7/09.
MBT Ind - Combined ADG Ratio, YR, NR and Efficiency Ratio (1/4 ADG Ratio + 1/4 YR + 1/4 NR + 1/4 Efficiency Ratio)
Scrtl - Scrotal Circumference measured in centimeters and semen tested by John Smith, DVM, Smith Veterinary Service.

EPDs (Expected Progeny Difference)

EPDs - The prediction of how future progeny of each animal are expected to perform relative to the progeny of other animals listed in the database. **You cannot compare EPDs across breeds.** Each breed association calculates that breed's EPDs. See averages below.

BW - Birth Weight EPD, expressed in pounds, is a predictor of a sire's ability to transmit birth weight to his progeny compared to that of other sires.

WW - Weaning Weight EPD, expressed in pounds, is a predictor of a sire's ability to transmit weaning growth to his progeny compared to that of other sires.

Milk - Maternal Milk EPD is a predictor of a sire's genetic merit for milk and mothering ability as expressed in his daughters compared to daughters of other sires. In other words, it is that part of a calf's weaning weight attributed to milk and mothering ability.

Year - Yearling Weight EPD, expressed in pounds, is a predictor of a sire's ability to transmit yearling growth to his progeny compared to that of other sires.

Other Production, Carcass and Ultrasound EPDs vary among the breeds, see below.

EPDs (Expected Progeny Difference)

CED/CE - Calving Ease Direct is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first calf heifers. It predicts the average difference in ease with which an sire's calves will be born when he is bred to first-calf heifers.

Scrotal/SC - Scrotal Circumference EPD, expressed in centimeters, is a predictor of the difference in transmitting ability for scrotal size compared to that of other sires.

TM/MWW/M&G - Total Maternal, Maternal Weaning Weight EPD measures a sire's ability to transmit milk production and growth rate through his daughters. It predicts the weaning weight of a sire's daughters' calves. It is equal to his Milk EPD plus one-half his weaning weight EPD.

CEM/MCE - Calving Ease Maternal is expressed as a difference in percentage of unassisted births with a higher value indicating greater calving ease in first-calf daughters. It predicts the average ease with which a sire's daughters will calve as first-calf heifers when compared to daughters of other sires.

Marbling - Intramuscular Fat EPD is a predictor of the difference in a sire's progeny for percent intramuscular fat in the ribeye muscle compared to other sires. (Angus, Red Angus and Simmental give ultrasound derived EPDs)

REA - Ribeye area EPD is a predictor of the difference in square inches of ribeye area of a sire's progeny compared to the progeny of other sires. (Angus, Red Angus and Simmental give ultrasound derived EPDs)

Fat - Fat thickness EPD, expressed in inches, is a predictor of the difference in external fat thickness at the 12th rib of a sire's progeny compared to the progeny of other sires. It includes the weighted average of 60% of the rib fat measurement and 40% of the rump fat measurement. (Angus, Red Angus and Simmental give ultrasound derived EPDs)

CW/CWT - Carcass Weight EPD, expressed in pounds, is a predictor of the differences in hot carcass weight of a sire's progeny compared to progeny of other sires.

\$BV - Beef Value, an index value expressed in dollars per head, is the expected average difference in future progeny performance for postweaning and carcass value compared to progeny of other sires.

Breed Association EPD Averages for Non-Parent Bulls

	BW	WW	YW	Milk
Angus	2.1	45	82	21
Charolais	0.6	24	42.2	6.6
Gelbvieh	2.1	39	70	18
	BW	WW	YW	Milk
Braunvieh	0.2	1.0	0.0	2.0
Murray Grey	3.2	19	29	3
Red Angus	0.0	31	58	17
	BW	WW	YW	Milk
Salers	2.0	40	77	20
Simmental	1.1	31.2	55.9	4.4
South Devon	2.6	41	76	21



Why BVD-PI Test?

We'd like to salute Midland Bull Test for being a leader in not only cattle genetics and cattle performance but also in working to insure better herd health for all Midland bull customers. This year all bulls offered through Midland have been screened for persistent infection (PI) with the bovine viral diarrhea (BVD) virus. This screening provides the Midland buyer utmost confidence that their new seedstock are not "carriers" of the BVD virus.

For cattlemen, the primary concern of spreading the BVD virus is through PI cattle; with transiently (or temporarily) infected cattle considered a less important source of the disease. PI animals are very efficient transmitters of the virus. They usually have a very high and virulent amount of virus circulating in their blood and other fluids; and they shed the BVD virus continually.

A PI calf is "created" during pregnancy when BVD virus from an infected dam's bloodstream crosses the placental wall to her fetus during the first part of gestation. This is the *only way* a PI animal is created.

Fetal infection can lead to fetal death, the birth of a PI calf, or the birth of a normal calf. It's important to note that a calf born BVD-PI will always be a PI animal. If a calf is not PI at birth, it can never become PI.

While uncommon, PI calves can grow to adult age without any outward signs of BVD virus infection. The virus is perpetuated when these PI animals – bulls or heifers – survive past yearling age and enter the breeding herd. PI heifers or cows that conceive will always produce a PI calf. A PI bull has the dangerous potential to effectively and efficiently spread the BVD virus to all cattle he comes in contact with.

Immunizing cattle herds with appropriate vaccines to protect against transient infection should be the first consideration in a herd biosecurity program. But, given the right conditions, the tremendous amount of virus secreted by a PI calf can overwhelm a level of immunity provided its herd mates by vaccination.

The cost of at least one PI animal in a commercial beef breeding herd has been reported to range from \$14-\$24 per cow per year in reduced reproductive efficiency alone. Research at West Texas A&M University found feedyard PI prevalence to be about 0.17% (1.7 PIs per 1,000 head). This research also indicates the probability of initial treatment for respiratory disease is 43% greater in cattle exposed to BVD-PI cattle in the same pen or an adjoining pen.

Therefore, the cost of BVD virus infection is too great to leave to chance. That's why we recommend that all cattle entering your herd – *including your new bulls* – be screened for the BVD virus before they enter your operation.

Here are some other key points:

- All open heifers purchased should be screened for BVD-PI status well in advance of breeding.
- Purchased bred heifers or cows with an unknown BVD-PI status should be kept separate from the resident herd until their PI status can be confirmed by first screening their calves.
- Screen the all new crop calves in advance of breeding to avoid exposure of a pregnant cow by a PI calf.
- Cows do not need to be PI tested unless they have a PI calf.
- If an animal tests negative for BVD-PI status, there's no need to ever retest that animal.
- PI animals should be isolated from the herd and should never enter commerce.
- PI surveillance should include the sampling and testing of as many aborted fetuses, stillborns and pre-weaning deaths as possible.
- All "non-biological" pairs should be screened for PI status – this includes "recipient" cows.
- Screen all cows that lose a calf and a tissue sample not obtained from the calf.

*For more information, contact us at Montana State University Beef Quality Assurance
406-896-9068 or 406-994-4323.*

- Clint Peck and Mo Harbac, Montana State University.

MIDLAND BULL TEST

On behalf of all our seedstock producers, we thank you for coming to the sale!

Feed Efficiency — RFI / NFI

RFI (Residual Feed Intake) or NFI (Net Feed Intake) has become the most exciting and potentially economical genetic trait selected for in the beef cattle industry in the last 20 years. Feedlot studies demonstrated that a 10% improvement in average daily gain as a result of a 7% increase in appetite improved profitability 18%, whereas, a 10% improvement in feed efficiency returned a 43% increase in profits (Fox et al., 2001) Efficiency gains have been reported from 15-25% from Australia, Canada, and US livestock research. That is a \$60-\$70 saving per cow on the ranch and a \$70-\$100 saving in the feedlot. It's proven, it's time tested, and it works.

Unfortunately you can't look at an animal and tell how efficient they are – you have to measure it (negative is favorable). What cattlemen have found from Australia to the United States is that just because they are small or fat doesn't mean they are efficient, it just means they are small or fat and that there are inefficient cattle in every frame size and phenotype. This means you can still complement efficiency with the type of cattle that works best in your environment and management. Another bonus – there are no relationships either positive or negative associated with RFI tied to other economically important traits. We cattle producers no longer have to sacrifice anything to breed good RFI cattle.

Ultrasound

Matthew and Jamie Lane of Lane Livestock Services have provided the ultrasound work for Midland Bull Test since Midland began collecting and providing ultrasound data to the consignors and buyers 14 years ago. Matthew is one of the charter ultrasound technicians to collect ultrasound images and utilize the centralized ultrasound process in order to use ultrasound data for genetic evaluation.

Over the last 14 years, Midland has collected as much if not more ultrasound data than just about any other location in the country.

All test bulls, not just sale bulls, are ultrasounded so that a complete comparison can be made amongst all the bulls evaluated on test. Collection of ultrasound data is done in accordance with the guidelines developed by the Ultrasound Governance Committee, which oversees ultrasound matters for the U. S. Beef Breeds Council. The images collected are submitted to UltraInsights, a centralized ultrasound processing lab. All bulls enrolled in their respective breed association's performance program have data submitted to the breed association so that the ultrasound data is incorporated into genetic evaluation for the breeder. In that way, the most up to date EPDs are available for the bulls prior to the sale.

Ultrasound results are available on our web site, by request and on sale day.



Scrotal Circumference

This year marks Doc Smith's 26th year semen testing bulls at Midland. Doc Smith, Three Forks Veterinary, measures each bull's scrotal and evaluates their semen samples. Measuring the scrotal circumference of young bulls is an accurate, repeatable method to assess current and future sperm-producing ability. The measurement gives an estimate of the weight of the testes, which is directly related to the level of sperm production. Scrotal measurement is also positively correlated with semen volume and quality. Bulls with adequate scrotal development for their age have a higher probability of becoming satisfactory breeders than bulls with smaller scrotal circumferences. Scrotal circumference is of medium to high heritability. Fertility of the male offspring can be increased by selection for this trait. The scrotal circumference of a bull is also positively related to the fertility of his daughters. Heifers from sires with larger than average scrotal circumference tend to reach puberty earlier than those from bulls with smaller scrotal circumferences. Increased scrotal circumference in sires is also favorably correlated to their daughter's age at first breeding, pregnancy rate and days to rebreeding after calving.

A major objective in a cow-calf operation is to produce one calf from each cow annually. The degree to which producers meet this goal influences their net income. A key component of efficient calf production is a high fertility level in each breeding animal in the herd. Since individual bulls service many females, a deficiency in the breeding ability of one bull has a larger impact on herd productivity than fertility problems in a single female. Using a subfertile bull may lead to longer calving intervals, a lower number of calves produced and increased costs from wintering open females. All of these results cause serious economic loss to the cow-calf producer.

It is not feasible to determine true fertility before a bull is used in the herd. Nevertheless, a bull can be evaluated for breeding soundness and this information used to assess his potential fertility. A few bulls may be sterile, but most have fertility levels ranging from very high to very low.

Semen Quality

The criteria commonly used to evaluate semen quality include sperm morphology (structure) and motility (rate and percent of progressive forward movement). Semen volume and concentration can also be used.



A *new* AGE IN DNA-MARKER TECHNOLOGY

What are GeneSTAR MVPs

Now GeneSTAR® from Pfizer Animal Genetics provides a new 56 DNA-marker panel that delivers more genetic information on core traits with greater reliability. GeneSTAR MVPs™—or Molecular Value Predictions—measure the molecular breeding values for the traits of feed efficiency, marbling and tenderness. This new panel, *authenticated through a third-party validation process*, will enhance genetic improvement by providing more reliable information to enable greater selection opportunities.

GeneSTAR MVPs incorporate the 11 DNA markers included in the previous GeneSTAR test along with information from an additional 45 DNA markers to form the new 56 DNA-marker panel. MVPs are reported in units of the trait as a prediction of the animal's genetic value.

Trait	Definition	Units	MVP Range*	Average % Reliability**
Feed Efficiency ¹	Difference between an animal's actual and expected feed intake based on its body weight and growth rate	lbs./day	Min: -3.17 Max: 2.38	30%
Marbling ²	Degree of intramuscular fatness in the <i>longissimus dorsi</i> (ribeye) muscle	Marbling Score 0–9	Min: -1.00 Max: 1.11	26%
Tenderness	Force required to shear a cooked steak after postmortem aging	W-B Shear Force (lbs.)	Min: -1.04 Max: 1.89	49%

*The closer the MVP value is to the highlighted Minimum or Maximum in each row, the more favorable the result.

**The reliability value is expressed as a percentage of the maximum accuracy attainable.

How to use GeneSTAR MVPs

The new GeneSTAR MVP reporting system provides information on the animal and its genotype that can be used to make breeding and management decisions. Reading the MVP data, the animal in the example below has a GeneSTAR MVP feed efficiency value of -0.73 lbs. and a % rank value of 26 percent. This means that the MVP value for this animal ranks in the top 26 percent of animals within the same breed.

As a full-service genomics provider, Pfizer Animal Genetics offers a team of professionals to help customers achieve maximum value from the application of test results in production-marketing systems. This includes helping you understand test information and apply results to your own management and marketing programs.

Molecular Value Prediction

	FE	Marb	Tend
MVP	-0.73	0.01	-0.93
% Rank	26%	49%	7%

A sample GeneSTAR MVP report with individual percentile rank is shown at left. In addition, overall herd and breed ranges for MVPs and trait accuracies are listed in the report.

For specific questions regarding animals that may have been recently tested, or any other inquiries relating to the new GeneSTAR system, contact your Pfizer Animal Genetics representative, call 1-877-BEEF DNA or go to www.pfizeranimalgenetics.com.



1 Validated in *Bos Taurus* populations only, additional information available on file for *Bos Indicus*. Feed Efficiency is measured as Net Feed Intake.

2 In NBCEC validation, the marbling MVP is significantly associated with Ultrasound as % IMF at 60 days prior to harvest.

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