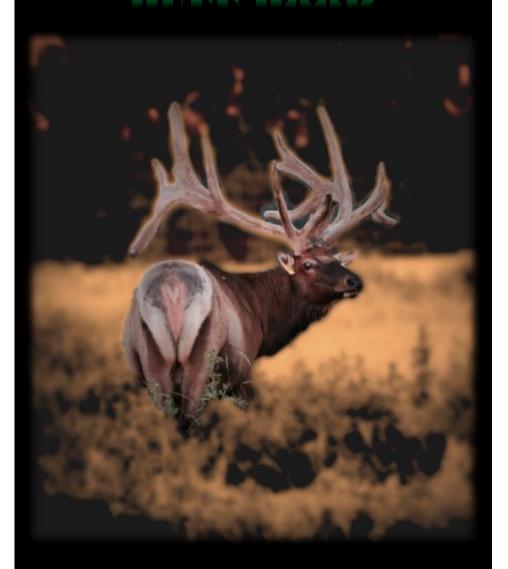
2016 BIGGEST RACKS BULL BOOK



Www.BIGGESTRACKS.com



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ON THE COVER:

ON THE COVER.

PROSPECT AFRI 19

See Page 28 for more details about this bull.

Ken Vanderwekken, DVM CVA Welcome to the 2016 Biggest Racks Bull Book. It has been many years since the gathering of new and old elk pedigree's in one location

Enjoy the following pages filled with statistics & information on many outstanding bulls. Use this as a handy reference all year long. This is only the beginning, each year the book will grow so feel free to contact biggestracks@gmail.com and submit your bulls; the new, the old and the up and coming, to be included in the next edition. But don't worry we will keep you informed through out the year, just head to www.biggestracks.com for more pictures, genetics, statistics & updates.

WWW.BiggestRacks.com by MSW Farms, Mark & Tina Stewart & Family

The 2016 BULL BOOK publication is dedicated to the Memory of Bruce Cook from West Wind Wapiti. Bruce was a very important mentor in my life as well as my family's. After I completed a BSc in Animal Sciences from U of A and a Certificate in Diversified Livestock from Lakeland, Bruce hired me as his farm manager. He encouraged me to continue my work with E & R Elk Consulting even while working for him. I handled animals at sales, looked after planning and coordinating of sales & futurity events, marketing and set up as well as worked as an advertising & sales representative for the Canadian Elk & Deer Farmer. He always encouraged people to get experience in all walks of life and ALWAYS do a return on investment. Enjoy, Tina Stewart

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AFRI 52U

D.O.B. JULY 13, 2008

PROV. REG AFRI 52U

MANITORA WEAPON



AFRI

AGE/YEAR	SCORE/Wt
6 yr	570"
5 yrs	61.5 lbs
4 yrs	44.5 lbs
3 yrs	38 lbs

PYTHON AFRI 3P	COBRA AFRI 46J	MANITODA WEATON
	CODICA AI ICI 400	AJEL 39E
	AFRI 2L	SULTAN AFRI 33H
	AFRI ZL	AFRI 15J
AFRI 30S	SCORPION AFRI 99K	WHIPLASH AFRI 70H
		AFRI 58H
	AFRI 34M	COBRA AFRI 46J
		AFRI 52K





AFRI 52U was a son of Python & a brother to Anaconda AFRI 8U who cut 66 lbs at 3 yrs. His genetics live on in his amazing offspring at Jean's Wapiti Game Farm.

JEAN'S WAPITI GAME FARM - Lafond, Ab

PH:780-645-9655

Ron & Susan Jean

ronjean@mcsnet.ca

AGENT AMSW 14B

D.O.B. JUNE 1, 2014

PROV. REG TAG# AMSW14B



AGE/YEAR	SCORE/Wt
2 yrs	Est 325

		COBRA AFRI 4J	
AGIB 17S	LEVI ASEU 501	ASWU 4M	
	AGPE 378U	PROSPECT AFRI19R	
	AGPE 3700	AGPR 252S	
	SCORPION	WHIPLASH AFRI 70H	
	AFRI 99K	AFRI 58H	
	A EDI 24K	KING	
V (300-4)		AFRI 31K	AJEL 23G



MSW Farms has a vision to build a 500" 6 X 6. This bull has the background to do it. He has not been pushed, yet he still has an estimated score of 325" with a 45" spread at 2 years old and he is not done grow-

ing yet. Lets watch this guy as he grows some of the biggest racks. Check him out at www.biggestracks.com where updated pictures and a score will be posted.

MSW FARMS - Ponoka Alberta

PH:403-357-9833

Mark & Tina Stewart

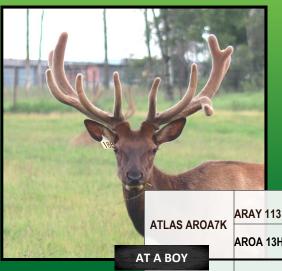
www.mswfarms.com

mswfarms@gmail.com

AT A BOY AMSW 18B

D.O.B. JUNE 2, 2014

PROV. REG TAG# AMSW 18B



AMSW 35U

AGE/YEAR	SCORE/Wt
2 yrs	Est 310"

REVOLUTION TBEG 146

AROA 13H

ARAY 30
TROA 16

KING ADAM AMSW 23N

AFRI 13G

PLATINUM

ASWU 4M

ASIM 14 K



Check out the back cover to see KING ADAM who had a green score of 515, this young bull has those genetics along with

those of his sire ATLAS. He has not been pushed with the feed, yet he still has a great rack at 2 years old and he is not done growing yet. Lets watch this guy as he grows some of the biggest racks. Watch for updates at www.biggestracks.com

MSW FARMS-Ponoka Alberta

PH:403-357-9833

Mark & Tina Stewart

www.mswfarms.com

mswfarms@gmail.com

BARRACUDA AFRI 24N

D.O.B. JUNE 17, 2003

PROV. REG TAG# AFRI 24N



AGE/YEAR	SCORE/Wt
6 yrs	490" with 68" spread
5 yrs	436 1/8"
2 yrs	28.10 lbs

		STARBUCK ARWS27
SCORPION AFRI	WHIPLASH AFRI 70H	AOLD 225
ACUDA	IAFRI 58H	KING
		AOLD 250
	OLU TAN AFRICALI	KING
	SULTAN AFRI33H	AOLD 246
AFRI 2L		

AFRI 15J

2

2 yrs old Barracuda sons



TSHN 25

Barracuda has produced 48lbs of velvet and over 500" of hard antler. His offspring are consistently producing great velvet and hard antler just like him.

FOGGY BOTTOM RANCH - Wainright, Alberta

PH:780-842-0498

Ryan & Jamie McClennon

ryanfbr1@gmail.com

BILLABONG AJRG 22T

D.O.B. MAY 30, 2007

PROV. REG TAG# AJRG 22T



AJRG 26P

AGE/YEAR	SCORE/Wt
8 yrs	61 lbs
7 yrs	61.7 lbs
6 yrs	513"
5 yrs	468"
4 yrs	41 lbs
3 yrs	34 lbs
2 yrs	19 lbs

MANITOBA WEAPON

AFRI 2L

AFRI 2L

AFRI 5ULTAN AFRI 33H

AFRI 15J

SCORPION AFRI 99K

AFRI 58H

AFRI 30L

AFRI 30L

AFRI 30L

AFRI 30L

AFRI 30L



SEMEN
For Sale
\$200/straw

Billabong is a large beam bull who has produced over 60 lbs and 500 in. He has produced sons that are over 19lbs at 2 (Diablo) and over 400 in at 2 (SC Berretta-410 SCI). All of his sons on our farm have amazing mass and have typical frames. He has been over 1300lbs before rut for the last 4 years.

GOLDEN WILLOW RANCH – Clive, Alberta

PH:403-784-2284

Russell & Joanne Gwozdz

gwozdzrj@gmail.com

BLACK JACK AFBR 8U

D.O.B. MAY 25, 2011

PROV. REG TAG# AFBR 8U



AGE/YEAR	SCORE/Wt
4 yrs	448"
2 yrs	376 3/8"

WHIDI ASH AFRI70H

	WITH EAGITAL KITOLI
SCORPION AFRI99K	AFRI 58H
AFRI 2L	SULTAN AFRI33H
AFRIZL	AFRI 15J
MAYIMIIO	SULTAN AFRI 33H
MAXIMUS	AFRI 36H
AFDIEFM	SABRE
AFRI 55M	AFRI 10K



AFBR 38S

Black Jack is an outstanding son of Barracuda who has a beautiful wide typical frame that will add quality to anyone's herd. Black Jack was born at Foggy Bottom Ranch and many of our best spikers are sired by him. Blackjacks is very heritable and passes on strong velvet and hard horn traits year after year. Thanks to the Krackachucks for buying him

FOGGY BOTTOM RANCH – Wainright, Alberta PH:780-842-0498

Ryan & Jamie McClennon

ryanfbr1@gmail.com

BLESSED ASAU 707

D.O.B. JUNE 1, 2007

PROV. REG TAG# ASAU 707



<u>AGE</u>	SCORE/Wt
8 yrs	583 5/8" shed 594" on his head
7 yrs	530"
5 yrs	490"

	A CONTRACTOR	ICOD	NA
A		IGOR	NA
	SHEIK ASAU 306	ASAU 40J	WHITE LIGHNTING AOLD 186
ESSED		A3A0 403	MATRON ARJS16
		KINO	NA
		KING	NA
Р	PEPSIE ASAU 307	PRINCE ASAU 39.1	WHITE LIGHNTING AOLD 186
			QUEENIE ARJS41



BLE



124 C - Blessed Spiker

Blessed 707 is knocking on the door of the 600" club. His sons are doing awesome, look at this 2 year old "Show off" who is a typical 6 X 6. Here is a spiker son of Blessed, 124C, who has 16" brow tines and 14 lbs of antler

WILD VENTURES GAME FARM - Wildwood, Alberta PH:780-325-2255

Dwayne, Todd & Jackie Veldhouse

jveldhouse@cciwireless.ca

BUCCI

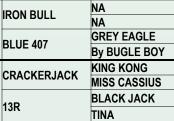
D.O.B. MAY 27, 2012

REG # A41145



AGE/YEAR	SCORE/Wt
3 yrs	465" with 51" spread

SOPHIA







Bucci scored 465"@ 3yr with 51" in width. If you look at his pedigree and what they have produced.....WOW. X-Ray - 515"@7 yr and 51 inches wide, Crackerjack - 560"@4 yr NT and King Kong - 543"@ 7yr Typical.

JD Elk, Iowa

PH:712-348-6235

Joe Giacone & Dan & Stacey Lonneman Iowaelkman98@gmail.com

CALIBER AGPE 622A

D.O.B. MAY 23, 2013

PROV. REG TAG# AGPE 622A



AGE/YEAR	SCORE/Wt
2 yrs	366 4/8 "
	406" on his
	head

LONGITUDE AGPE 134N RAISIN BREAD ALFL92

TELEGRAPH AOLD28 ALFL 24

ASTA 68

TSTA 19W

ASTA 34

LEVI ASEU 501

COBRA AFRI 46J

AGPE 430X

ASEU 4M

AGPE 357U

RAISIN BREAD ALFL 92

AGPE 200P





Caliber scored 406" on his head at two years old. He

was a breeding machine at two as ultra sound confirmed his work in November. Semen collected by Dr. Martin Wenkoff. We are excited as Caliber is a nice out cross for our herd and it is a pleasure to have a walking bull looking too measure up to Good Old Prospect. We will be looking forward to the Caliber cross Prospect offspring this summer. His Sire Longitude won both Typical and Non-Typical back to back at Alberta EXPO with an official score of 498 2/8" and was 507" on his head. Caliber's DAM is a son of Cobra who scored 517" at 6 years of age. Cobra's son, Levi Scored 560" and is the sire of AGPE 430X which is Calibers Dam. The Grand DAM is by Raisin Bread who was a 7x7 and had great style. On the sire's side, Longitude's sire is Raisin Bread and his dam is by Reed.

GLEN PARK ELK FARM- Calmar, Alberta

PH:780-725-2102

Barry & Steve Chernuka www.glenparkelk.net b.chernuka1@gmail.com

CHAIRMAN ASAU 334

D.O.B. MAY 29, 2013

PROV. REG TAG# ASAU 334



<u>AGE</u>	Wt/Dry down
3 yrs	25.2 lbs 44.75" wide
2 yrs	14 lbs / 31.6%

No Bottle Feds. Grass Performance. Click on History 707

WHITE LIGHTNING

GOLDILOCKS ASIM 11H

	MAVERICK TOLD 80	AULD 180
SILVERON SAM	MAVERICK TOLD 80	TCAR 118X
BOW ASIL 114H	ASIM 192	SAM TSIM 51W
AIRMAN		TSIM 20W
IAINWAN	SHEIK ASAU 306	IGOR
		JEWEL ASAU 40J
DELIGHT ASAU 808	CRANDEE ASAU 304	KING



SEMEN For Sale \$200/straw

Bred to be Great! Grass Production!! OUT CROSS. BIG, WIDE, TYPICAL & POTENT; Wt, 1010lbs July 18th @ just 3 yrs. Dam is a big, great milking, paternal 1/2 sister to Blessed 707, who scored 580 @ 8; unofficial

& 65" WIDE @ 7. Extended Pedigree goes back to Angus, the industries high seller at auction; \$125,000 for 1/2 interest. Click on HISTORY 707. Pedigree includes the winning Breeders Three Genetics of White Lightning, Igor & King. CWD Exportable Semen for both Canada & the US. Dr. Wenkoff collected and stored. Transfer & storage at buyer's expense.

ANTLER HILL ELK RANCH – Innisfail, Alberta PH:403-227-2449

Allen & Eleanor Saunders www.antlerhillelkranch.com haremcentral@live.ca



- Five-year-old Tequila son scores 609", unofficial with spread of 66".
- An amazing 7X8 typical frame that scores 537 4/8" unofficial.
- Score doesn't include broken beam and drop, would have added 15-20 inches!
- 500 3/8" Official 1st place 2015 NAEBA 4-year-old NT Class.
- Swept down and out whale tails everyone is looking for!!
- Semen drawn and tested by Dr. Martin Wenkoff, available in the US and Canada.
- Need tine length to add to your score? Chernobull has it at every tine.

Unofficial Score Sheet

	Left	Right
Main Beam	58 2/8	47
T-1	18 6/8	20 7/8
T-2	21	24 5/8
T-3	20 5/8	28 4/8
T-4	26 3/8	28
T-5	21 5/8	25 2/8
T-6	17 7/8	25 2/8
T-7	10 1/8	
Total Typical	136 3/8	152 4/8
NT-1	2	7 2/8
NT-2	10 3/8	1 4/8
NT-3	9	20 5/8
NT-4	4 6/8	13 3/8
NT-5	1 4/8	2
Total NT	27 5/8	44 6/8
C-1	9 6/8	9 7/8
C-2	8 4/8	8 4/8
C-3	9 4/8	9
C-4	12	10 2/8
Total C's	39 6/8	37 5/8
Total Side Score	262	281 7/8
Spread	66	
Total Typical Sco	re	537 4/8
		-

Total NT Score 609 7/8



Eric, Kim, Chase and Kyra Mohlman

4985 West Blue Hill Road, Ayr, NE 68925 • 402-469-1831 • mohlmnelk@gtmc.net

DENALI AMSR 5Z

D.O.B. JUNE 1, 2012

PROV. REG TAG# AMSR5Z



AGE/YEAR	SCORE/Wt
4 yrs	381 5/8"
3 yrs	345"
2 yrs	14.6 lbs

AMSR 11M

AMSR 63

AMSR 28 AYUK 2 AMSR 22

HARLEY TKLE22

Denali

ADAG 41M

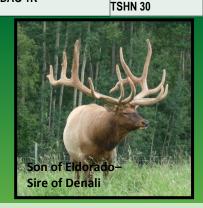
HUMMER ADAG 15J

ADAG 1K

TARINGA ABEG 384

MAN-O-WAR





Denali had a 6 X 7, 345" rack with a 46" inside spread at 3 years old and scored 381 5/8" Aug 3rd, 2016 with his 4 year old rack.

MOUNTAIN SPRINGS RANCH - Whitecourt, Alberta

PH:780-778-5412

Chuck & Di Hoffmann

hoffmannelk4@me.com

HERC AGPE 668A

D.O.B. JUNE 3, 2013

PROV. REG TAG# AGPE 668A

ORPION AFRI99K

AGPE 113N

SIN BREAD ALFL92

		AGE/YEAR	SCORE/Wt
1	4	2 yrs	368"
	land.	PYTHON AFRI3P	COBRA AFRI46J
	HORIZON AFRI 19U	PTTHON AFRISP	AFRI 2L
And the second s	HERC AGPE 455X	AFRI6P	SCORPION AFRIS
and the second s			AFRI 11K
		AGPE 60M	RAISIN BREAD A
			AAGL 140
	AGE 433A	AGPF 298T	HOK ASWU 13N
		AGPE 7981	

An outstanding Horizon son, Herc has great mass as a velvet bull, although he has never been velveted yet. Hard antler at 2 he scored 368" on his head is in hard antler again at 3 for 2016. This bull had presence at 2 and great width for a young bull and is looking great again for 2016. The rain has produced great grass and the result has been more antler in every pen we look at. He has more mass and more points so he will score well for a three year old. Watch for his 2016 score at www.biggestracks.com



GLEN PARK ELK FARM- Calmar, Alberta

PH:780-725-2102

Barry & Steve Chernuka www.glenparkelk.net

b.chernuka1@gmail.com

HIGH TOWER ABGF 62S

D.O.B. JUNE 2, 2006

PROV. REG TAG# ABGF 62S



BOA ABGF 54N

HIGH TOWER

ABGF 49N

		MANITOBA WEAPON
	COBRA AFRI 46J	AJEL 39E
l	AFRI 231G	AJEL 16
		AOLD 209
	SCORPIAN	WHIPLASH
		AFRI 58H
	AJEL 13G	NORTHERN CREE
		AJEL 15E



SEMEN
For Sale
\$200/straw



High tower is an amazing Boa son. He has great length and form and he passes that onto his offspring.

FOGGY BOTTOM RANCH – Wainright, Alberta

PH:780-842-0498

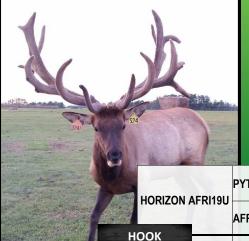
Ryan & Jamie McClennon

ryanfbr1@gmail.com

HOOK AGPE 524Z

D.O.B. JUNE 1, 2012

PROV. REG TAG# AGPE 524Z



AGPE 228R

AGE/YEAR	SCORE/Wt
4 yrs	436"
3 yrs	374" at Elk Expo 401 6/8" on his head
2 yrs	16.1 lbs

PYTHON AFRI 3P	COBRA AFRI 46J
	AFRI 2L
AFRI 6P	SCORPION AFRI99K
	AFRI 11K
FORESIGHT AGPE 5J	CLEARSTONE BOUNTY
	ASTA 36
AGPE 100M	RAISIN BREAD ALFL92
	AECK 105





Hook was a flat top wide bull at two when we velveted him, I wanted to grow him out at two

but he was the first bull in the squeeze in the group and after cutting a few bulls the crew said "Hey where's that bull Barry wanted to grow out...oops. I liked him at two with 16.10 lbs he had more style so I over looked the lighter weight and he saw some heifers. Hook got grown out at three and just snuck over the bar to 401 6/8" on his head. Thanks Mr. Steem for scoring him in my absence. Hook is a Horizon son out of one of our stand by foundation cows that produces above average offspring every time. 2016 score 436". Please check www.biggestracks.com for updates.

GLEN PARK ELK FARM- Calmar, Alberta

PH:780-725-2102

Barry & Steve Chernuka www.glenparkelk.net

b.chernuka1@gmail.com

JOKER AJRG 25T

D.O.B. MAY 31, 2007

PROV. REG TAG# AJRG 25T



AGE/YEAR	SCORE/Wt
9 yrs	49.5 lbs
8 yrs	47 lbs
7 yrs	489"
6 yrs	454"
5 yrs	Damaged
4 yrs	39.4 lbs
3 yrs	27.8 lbs

PYTHON AFRI 3P

COBRA AFRI 46J

AJEL 39E SULTAN AFRI 33H

AFRI 15J

MANITOBA WEAPON

JOKER

STINGRAY AFRI 7K

KING EAIS62 AJEL 32G

AJRG 4P

AFRI 34L

AFRI 2L

STARBUCK ARWS 27





Joker passes on his calm disposition & large body size & his production speaks for itself.

SHOOTING STAR RANCH—Leduc County, Alberta

PH:780-941-2274

Barry & Christine Harrison

shootingstarelkranch@gmail.com

KRUZE AMSW 29A

D.O.B. JUNE 9, 2013

PROV. REG TAG# AMSW 29A



<u>AGE</u>	SCORE/Wt
3 yrs	38.10 lbs
2 yrs	25.89 lbs
2500	



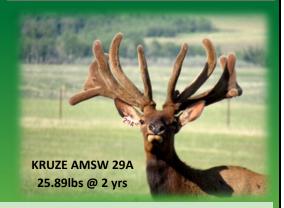
PANAMA ASEU848

KRUZE

AMSW24U

AOLD223





Kruze is going to keep on doing just that, he will kruze to the top of his class each year. First place at the National Velvet showcase for this big guy.

FOGGY BOTTOM RANCH – Wainright, Alberta

PH:780-842-0498

Ryan & Jamie McClennon

ryanfbr1@gmail.com

LONGITUDE AGPE 134N

D.O.B. JUNE 11, 2003

PROV. REG TAG# AGPE 134N



AGE/YEAR	SCORE/Wt		
Mature	498" sheds		
	507" on his		
	head		

		TELEGRAPH AOLD28	WHITE LIGHTNING AOLD 186
	RAISIN BREAD ALFL92		TOLD 24Y
		ALFL 24	REED
		ALFL 24	ALFL 13
NGITUDE		TSTA 19W	Na
	ASTA 68	ISIA ISW	Na
		ASTA 34	TSTA 18W
			TSTA 27X



Longitude won both Typical and Non-Typical back to back at Alberta EXPO with his biggest non-typical

official score of 498 2/8" and was 507" on his head. ASTA 0068 has produced several sires for us and we have a few daughters to step up to the plate.

GLEN PARK ELK FARM- Calmar, Alberta

PH:780-725-2102

Barry & Steve Chernuka www.glenparkelk.net

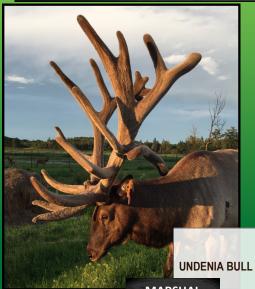
b.chernuka1@gmail.com

MARSHAL AJRG 15U

D.O.B. MAY 23, 2008

PROV. REG TAG# AJRG 15U

NAEBA #C5773



AGE/YEAR	SCORE/Wt	
8 yrs	520" SCI	
7 yrs	42.5 lbs	
6 yrs	506" unofficial	
5 yrs	493 1/8"	
4 yrs	30 lbs	
3 yrs	24 lbs	

MARSHAL

AJRG 4R

	OLLANOTONE 1-424		
CBF MERLIN	Y-104		
GRETA	CBF MAX		
	NA		
STINGRAY AFRI 7K	KING EAIS62		
	AJEL 32G		
	STARBUCK ARWS 27		
AFRI 34L	AOLD 205		

CLEARSTONE Y-424



Semen available In Canada & USA

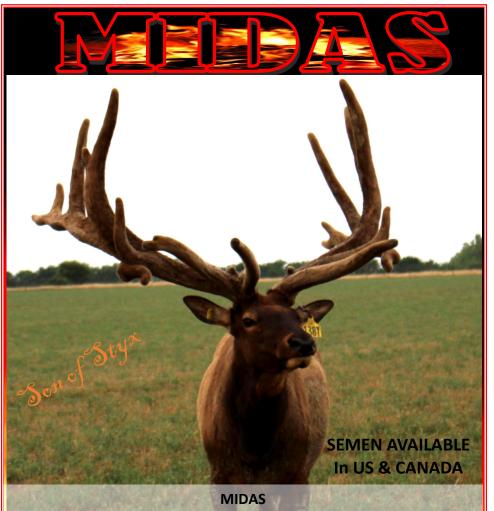
Marshal is an outstanding Undenia Bull son. He has long heavy tines, huge thirds & a long heavy beam with amazing whale tails. His 5 year old official score of 493 1/8 used the 42" spread credit. If using his actual spread of 52" his

score would have been 503 1/8" Marshal has eye appeal due to the style & sheer mass of his antlers. He is a great all around bull with over 500" & good velvet weights. For 2016; (still growing at printing) estimated 520"! He has an amazing top end, and many inches of antler above his 4th time as below.

SHOOTING STAR RANCH—Leduc County, Alberta PH:780-941-2274

Barry & Christine Harrison

shootingstarelkranch@gmail.com



Five year Old Styx son

Midas has his signature boxy shape again this year & scores around 485" at five with a very clean 7x7 main frame. Midas won NAEBA's 2016 four year old Typical class with a score of 460 3/8", with his actual spread of 62 3/8"his score would be 476 5/8" typical at just 4!!. Making him the largest typical 4 year old by 48" over the next closest bull in the history of NAEBA's competitions.

In 2014 Midas scored **487"** at 3 with his actual spread of **50 4/8"** and scored **471 2/8"** at NAEBA's 2015 competition winning the 3 Yr. Old NT Class. Semen drawn by Dr. Martin Wenkoff and is in the US & Canada



Eric, Kim, Chase and Kyra Mohlman 4985 West Blue Hill Road, Ayr, NE 68925 • 402-469-1831 • mohlmnelk@gtmc.net

PHENOM AGPE 616A

D.O.B. MAY 19, 2013

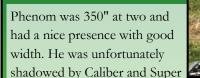
PROV. REG TAG# AGPE616A



AFRI 448X

AGE/YEAR	SCORE/Wt
2 yrs	350"

SCORPIONAFRI 99K	WHIPLASH AFRI 70H		
	AFRI 58H		
AFRI 8N	CLEARSTONE BOUNTY		
	AFRI 22K		
LEVI ASEU 501	COBRA ARI46J		
	ASEU4M		
AGPE383U	PROSPECT AFRI19R		
	AGPE245S		





Mag they both had larger scores so Phenom went unnoticed. Call him a late bloomer at three years old his width grabbed us and we are very happy with his production this year.

GLEN PARK ELK FARM- Calmar, Alberta

PH:780-725-2102

Barry & Steve Chernuka www.glenparkelk.net b.chernuka1@gmail.com

POWER PLAY ASAU 333

D.O.B. MAY 28, 2013

PROV. REG TAG# ASAU 333



<u>AGE</u>	Wt / dry down	
3 yrs	22.8 lbs	
2 yrs	12 lbs / 29.85%	

No Bottle Feds. Grass Performance. Click on History 707

SILVERTINE APVE 7J

KING NA
NA
PRINCE TSHN 12X

POWER PLAY

ABUNDANCE ASAU903

ABIR 58

Blessed ASAU 707

PEPSI ASAU 307

HONEY ASAU 302

AGACIOUS ASAU 1L

JACKIE ASAU 2L



SEMEN For Sale \$200/straw

A.I. Twin. No Bottle Feds Here!! GRASS PRODUC-TION! Dam, ASAU Abundance 903 a GENETIC PEDIGREE OF GREATS; DOUBLE BRED. Abun-

dance; A big cow, PROVEN, to be one of the most powerful females in the industry; a daughter of Blessed 707, who scored 583 5/8 @ 8 yrs & 65" wide@7 yrs, you saw his massive antler at 2016 March Mingle. Extended Pedigree goes back to Angus, the industries high sells a Auction; selling 1/2 interest for \$125,000. Click on History 707. Pedigree includes the winning Breeders Three Genetics of White Lightning, Igor & King. CWD Exportable Semen for both Canada & the US. Dr. Wenkoff collected and stored. Transfer & storage at buyer's expense.

ANTLER HILL ELK RANCH - Innisfail, Alberta

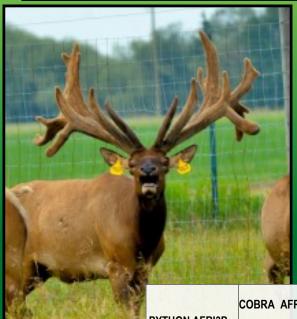
PH:403-227-2449

Allen & Eleanor Saunders www.antlerhillelkranch.com haremcentral@live.ca

PRESUMPTIOUS APGE 363U

D.O.B. JUNE 1, 2008

PROV. REG TAG# ARGE 363U



PRESU

SEMIEN For Sale

\$200/straw

AGE/YEAR	SCORE/Wt
7 yrs	61 lbs
6 yrs	60 lbs
5 yrs	515" on his head

MANITOBA WEAPON

м		COBRA AFRI 46J		
į	PYTHON AFRI3P		AJEL 39E	
			SULTAN AFRI 33H	
MPTIOUS		AFRI ZL	AFRI 15J	
		FORESIGHT AGPE 5J	CLEARSTONE BOUNTY	
AGI	AGPE 182P		ASTA 36	
			RAISIN BREAD ALFL 92	
		AGPE 69M	ACAT 45J	

It has been a pleasure to have a back up bull like Presumptuous. His caves have great body size and antler production. Sons are velveting in the top 1/3 of our herd. Not bad for back up offspring 2 to 3 weeks behind the rest of the pack. The biggest regret is that he did not see enough cows during his time on our ranch as he was shadowed by Prospect, and many AI sires we have been using. Presumptuous is getting grown out this year and may be marketed. He has improved our velvet weights and we have semen in the bank. \$200/straw collected and stored by Dr. Martin Wenkoff.

GLEN PARK ELK FARM- Calmar, Alberta

PH:780-725-2102

Barry & Steve Chernuka www.glenparkelk.net

b.chernuka1@gmail.com

PRIME TIME AFBR 53B

D.O.B. MAY 26, 2014

PROV. REG TAG# AFBR 53B



<u>AGE</u>	SCORE/Wt	
2 yrs	32.5 lbs	

OPTIMUS PRIME AJRG5U

PRIME TIME

AFBR 14Y

PYTHON AFRI 3P

AFRI 43L

BARRACUDA AFRI 24N

AFBR 9P

COBRA AFRI 46J

AFRI 2L

STARBUCK ARWS27
AOLD 237

SCORPIAN AFRI 99K

AFRI 2L

SCORPION AFRI 99K

AFRI 36H





Prime Time has great pedigree and he has proven it already with

32.5 lbs of velvet at 2 years of age, earning him 1st place at the National Elk Velvet &

Hard Antler Showcase. This is the largest velvet produced for a 2 yr old bull.

FOGGY BOTTOM RANCH – Wainright, Alberta

PH:780-842-0498

Ryan & Jamie McClennon

ryanfbr1@gmail.com

PROSPECT AFRI 19

D.O.B. JUNE 1, 2005

PROV. REG TAG# AFRI 19

121			<u>AGE</u>	SCORE/Wt
			8 yrs	544 1/8" 568 4/8" on his head with 64" spread
	A		7 yrs	510 2/8" 534 6/8" on his head with 66" spread
	0 0		6 yrs	46 lbs
		Mark Control		476"
			4 yrs	459"
			3 yrs	27 lbs
		WHIPLASH AFRI 70)H ⊢	ARBUCK
	SCORPION	25000000000000000000000000000000000000		DLD 225 NG
	PROSPECT	AFRI 58H	_	DLD 250
SEMEN	PROSPECT	CLEARSTONE BOUNTY		EARSTONE STALWART
For Sale	AFRI 8N			EARSTONE Y699
\$150 US/straw		AFRI 22K		NG
			A	GEL 46G

Prospect will always be one of our iconic foundation sires. His wide, reasonable typical frame, has produced many typical sons and a few hogs that are non-typical. Might have something to do with the Dam... Prospect has brought in width and added both Velvet weight and inches to the herd. He scored 568 4/8" on his head with his actual spread credit of 64",and 544 1/8" at EXPO with the calculated speed credit. A few Prospect straws will be released in Canada every year so watch for them or book your straws in advance. The only unrestricted semen sales are in the United States. Congratulations to the Foggy Bottom Boy's who brought in a 24lb Prospect son at the 2016 - National Elk Velvet & Hard Antler Showcase that placed 5th. Also take note that Prospect should get an honourable mention on Sandy Hill's 19.80 lb Bull as Prospect is on the Dam side. Sandy Hills Elk also produced a 469 2/8" five year old Prospect son which cut 55LBS at 6 years old. Have a look through the 2016 Bull book for a few of his up and coming sons we have an eye on. Contact Barry or Monte for semen sales

GLEN PARK ELK FARM— Calmar, Alberta Trophy Mountain Outfitters—Rand, Co

PH:780-725-2102 PH:970-723-3284

Barry & Steve Chernuka / Monte Matheson

b.chernuka1@gmail.com

SC BERETTA ABEG 121A

D.O.B. JUNE 10, 2013

PROV. REG TAG# ABEG 121 A

NAEBA REG#C5776



AGE/YEAR	SCORE/Wt
2 yrs	410 6/8"

SEMEN For Sale \$200 Can Or \$150 US/straw

PYTHON AFRI 3P

BILLABONG

AJRG 26P

SCORPION

AFRI 130L

SCORPION

AFRI 58H

ACAM 925

BIG THUNDER ACAM 443

AHUB 364

SC Beretta is an exciting bull with a lot of potential. Sired by Billabong, who scored 513" NT @ 6 years and cut 62lbs of velvet at age 7 years. His dam is a tremendous Scorpion daughter that produces nothing but great sons, who all go for breeders, regardless of their sire. SC Beretta was an amazing 410 6/8" as a two year old and will be larger at three but is still being grown out at the time of this publication. A good body size with a good temperament and terrific pass down genetics. Semen is available in the US and Canada from Dr Martin Wenkoff. Use this bull to improve your SCI score at an early age.

SUN CREEK RANCHES - Buck Lake, Alberta

PH:780-388-3324

Cliff & Melloddee Begg www.suncreekranches.com suncreek@xplornet.com

SC SIX SHOOTER ABEG 51Z

D.O.B. MAY 29, 2012

PROV. REG TAG# ABEG 51Z

NAEBA REG#C5792



SC SIX SHOOTER

AGIB 26S

<u>AGE</u>	SCORE/Wt
3 yrs	438 2/8"
2 yrs	373 3/8" unofficial



COBRA AFRI 46J AFRI 2L AGIB 60P SCORPION AFRI 58H ACAM 925 COBRA AFRI 46J AFRI 2L SUPREME AFRI 49H AFRI 11H WHIPLASH AFRI 70H AFRI 58H BIG THUNDER ACAM 443 AHUB 364

SEMEN For Sale \$200 Can Or \$150 US/straw

Six Shooter should be used to improve beam circumference, width and frame size. His basic antler pattern is a huge 6 x 6 with some extra points and large

webbing. Six Shooter will improve velvet weights without sacrificing good trophy antler configuration. His sire has produced 56lbs of velvet and could break the 500" mark this year when scored in hard antler. Six Shooter is out of a tremendous Scorpion daughter who produces nothing but great sons, that all go for breeders regardless of their sire. Terrific pass down genetics with a quiet temperament.

SUN CREEK RANCHES – Buck Lake, Alberta

PH:780-388-3324

Cliff & Melloddee Begg

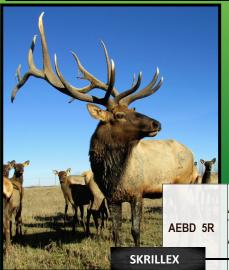
www.suncreekranches.com

suncreek@xplornet.com

SKRILLEX AMCR 530

D.O.B. JUNE 7, 2009

PROV. REG TAG# AMCR 530



AGE/YEAR	SCORE/Wt
6 yrs	445" SCI
5 yrs	432" SCI

AMCR 473

ASHN 67J

ASHN 67J

AJEL 39E

ACCELERATION ASHN 25

TKUR 21

EXCALIBER AMCR 262

TMIN 5

PRESTIGE TMCR 50B

AMCR 237





Skrillex has been a new herd sire for Riverbend Elk Farm. Skrillex scored 445 last fall at the age of 6 as a typical 7x7 bull with 54" beams. He has a very gentle disposition even throughout the rut. Riverbend strongly believes disposition is partially genetic. His sire AEBD5R, a large framed clean 6x6, has passed on proven genetics producing large typical hunt bulls. Skrillex's genetics include; Acceleration (458 Typical), Frederick, Excaliber (480 Typical), Prestige and Dexter.

RIVERBEND ELK FARM - Red Deer Alberta

PH:403-346-9401

Mike & Leanne McRee

riverbnd@telus.net

SKY SCRAPER AMCR 642

D.O.B. JUNE 13, 2013

PROV. REG TAG# AMCR 642



AGE/YEAR	SCORE/Wt
3 yrs	Est 400"
2 yrs	Hard antler

THRILLER AGIB 28N

NORD STAR ACAM652 AHUB 39 **ACAM 346**

AHUB 5 ACAM 65

KING

SKY SCRAPER

AMCR 497

EXCALIBER AMCR 262

DEXTER SMWZ 426D

TMIN 5

AMCR 243

PRESTIGE TMCR 50B

AMCR 46







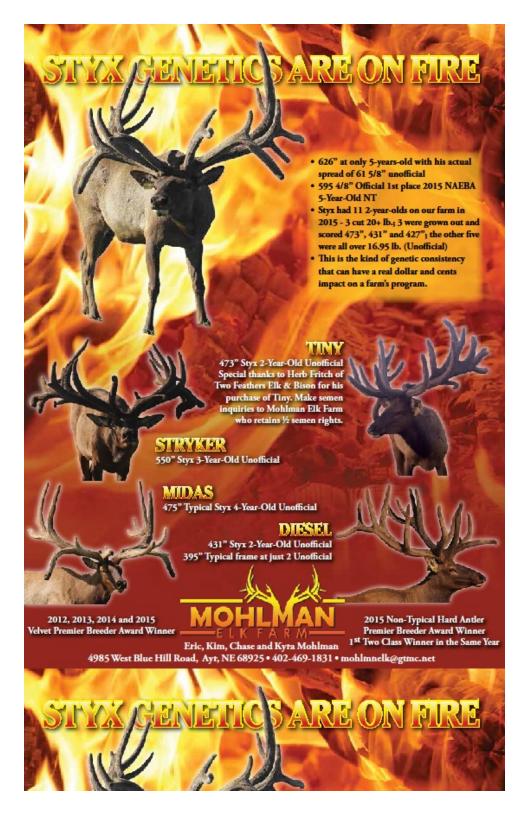
their breeding program strictly towards large typical bulls. Skyscraper is one of our newest herd sires at the young age of 3. As seen from his photo, he has super tine length on all his points and is going to be a very symmetrical, typical bull. At the time the photos were taken, his antler is still growing. His genetics are a combination of Thriller, a 470 SCI, 7x7 typical bull going back to King, and Excaliber, a 480 typical 6x6, on the dam side. Skyscraper's dam is a sister to Legendary, a 512 SCI bull. This bull was bred to produce large, typical hard horn along with impressive mass. Thriller, Legendary and Excaliber all can be viewed in the reference sire section.

RIVERBEND ELK FARM - Red Deer Alberta

PH:403-346-9401

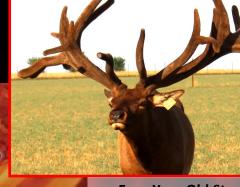
Mike & Leanne McRee

riverbnd@telus.net



STETELE

Son of Styx



STRYKER 550" Styx 3-Year-Old Unofficial



SEMEN AVAILABLE

Four Year Old Styx Son

We have grown Stryker out again this year and he isn't disappointing us! We have field scored Stryker well over **550**". Carrying great mass all the way to the back end he has an amazing look that pictures just don't capture. We grew Stryker out in 2015 and he scored an unbelievable **519 1/8**" winning the NAEBA 2016 competition, with his actual inside spread of **56 2/8**" he was **542 4/8** at just **3 years old.**

Semen drawn and tested by Dr. Martin Wenkoff & available in the US for 2016

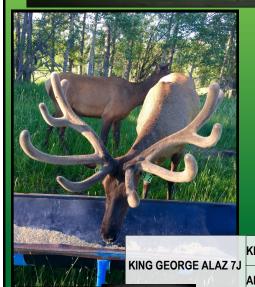


Eric, Kim, Chase and Kyra Mohlman 4985 West Blue Hill Road, Ayr, NE 68925 • 402-469-1831 • mohlmnelk@gtmc.net

SUNNY RAY AUPY 9Z

D.O.B. MAY 24, 2012

PROV. REG TAG# AUPY 9Z



AGE/YEAR	SCORE/Wt
3 yrs	339 1/8

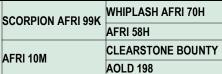
KING NA NA

AKUH 10 TCLG 69X
TSIM 10X

SCORDION AFRICOK
WHIPLASH AFRI 70H

SUNNY RAY

AFRI 5S







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BEAU SAADA RANCH – Beaver Lodge, Alberta

PH:780-831-5750

Ray D'Aoust

rhinokore@gpwins.ca

SUPER MAG AGPE 617A

D.O.B. MAY 8, 2013

PROV. REG TAG# AGPE 617A



SUPER MAG

AGPE 452X

<u>AGE</u>	SCORE/Wt
2 yrs	395" on his head

Semen for Sale \$200 / straw

Call about Volume discounts

AFRI 56H

CLEARSTONE BOUNTY AFRI 22K

WHIPLASH AFRI70H

AFRI 8N

COBRA AFRI 46J

LEVI ASEU 501

ASEU 4M

AGPE 297T

HOK ASEU 13N AGPE 204R



Super Mag by Prospect! Super Mag was 395" at two in 2015. This bull is a cross between Prospect and Levi, the great Grande dam is no slouch either as she is sired by Sandy Hills Hok who scored 522". Both Prospect and Levi have great sons proving their ability to pass on. Like other Prospect sons Super Mag's beam flares out adding air between his beams and giving him presence that harvest preserves are looking for. Three generations of well over the 500"

club has taken many years to build and here you can jump to the front of the line if your looking to increase you width, velvet production and raise your scores.

GLEN PARK ELK FARM- Calmar, Alberta

PH:780-725-2102

Barry & Steve Chernuka www.glenparkelk.net

b.chernuka1@gmail.com

SURE FIRE AWCW 2B

D.O.B. JUNE 10, 2014

PROV. REG TAG# AWCW 2B



AGE/YEAR	SCORE/Wt
2 yrs	Est 450"

AFRI 26S

SURE FIRE

AFRI 34M

SCORPION AFRI 99K
BARRACUDA AFRI 24N

AFRI 2L

SCORPION AFRI99K

AFRI 58L

MANITOBA WEAPON

COBRA AFRI 46J

AJEL 39E

STARBUCK ARWS27

AOLD 225





Sure Fire is a 2 year old that is loaded with genetics and a conservative estimated score of 450"

WOLF CREEK WAPITI- Edson, Alberta

PH:780-723-6485

Rick & Diane Stelter

stelter.rick@gmail.com

SYNERGY ASAU 217

D.O.B. MAY 28, 2012

PROV. REG TAG# ASAU 217



<u>AGE</u>	Wt / dry down
4 yrs	30 lbs
3 yrs	25.2 lbs / 29.75%
2 yrs	14.8 lbs / 28.4%

No Bottle Feds. Grass Performance. Click on History 707

SYNEGRY

ABUNDANCE ASAU903

	• • • • • • • • • • • • • • • • • • • •
KING	NA
ABIR 24F	PRINCE TSHN 12X
	ABIR 58
BLESSED ASAU 707	SHEIK ASAU 306
	PEPSI ASAU 307
HONEY ASAH 302	SAGACIOUS ASAU 1L



SEMEN For Sale \$200/straw

JACKIE ASAU 2L

A.I. Twin, No Bottle Feds Here!! GRASS PRODUC-TION! Dam, ASAU Abundance

903 a GENETIC PEDIGREE OF GREATS; DOUBLE BRED. Abundance is proven to be one of the BIGGEST & most powerful females in the industry; a daughter of Blessed 707, who scored 580 @ 8 unofficial & 65" wide@7, Extended Pedigree goes back to Angus, the industries high sellr a Auction; selling 1/2 interest for \$125,000. Clikc on History 707. Pedigree includes the winning Breeders Three Genetics of White Lightning, Igor & King. CWD Exportable Semen for both Canada & the US. Dr. Wenkoff collected and stored. Transfer & storage at buyer's expense.

ANTLER HILL ELK RANCH – Innisfail, Alberta

PH:403-227-2449

Allen & Eleanor Saunders www.antlerhillelkranch.com haremcentral@live.ca

TAP OUT AJRG 30U

D.O.B. JUNE 9 2008

PROV. REG TAG# AJRG 30U



AGE/YEAR	SCORE/Wt
7 yrs	62 lbs
6 yrs	59 lbs
5 yrs	456"
4 yrs	46 lbs
3 yrs	356"
2 yrs	21 lbs

N/A

OAK POINT JESSE N/A

BUCK WILD AJRG 22R

AFRI 43L

STAR BUCK
AOLD 237

N/A

N/A

N/A

N/A

AFRI 5L

WHIPLASH AFRI 70H

AFRI 25J

SEMEN
For Sale
\$250/straw



Tap Out has amazing tines that are long and thicker then most bulls beams. He is a bull that is over 60lb and is looking this year to be over 500 in. He has been over 1200lbs before rut for the last 4 years. His 2 and 3 year old sons all have amazing tines and are wide. He also has the CWD resistant genotype 132LL

GOLDEN WILLOW RANCH - Clive, Alberta

PH:403-784-2284

Russell & Joanne Gwozdz

gwozdzrj@gmail.com

OPTIMUS PRIME AJRG 5U

D.O.B. MAY 27, 2008

PROV. REG TAG# AJRG 5U



SCORE/Wt
57.6 lbs
59 lbs
damaged
496"
48 lbs
370 5/8"
25.36 lbs

MANITOBA WEAPON

SULTAN AFRI 33H

AJEL 39E

AFRI 15J

OPTIMUS PRIME

AFRI 43L

STARBUCK ARWS27

WHITE LIGHTNING MAVERICK TCAR 257



SEMIEN For Sale \$200/straw

Optimus Prime is a bull with amazing tines and tops. If he didn't damage his pedicle in 2014 we believe he would be well over 60lbs and 500 in. He has been over 1200lbs before rut for the last 4 yrs. He has a son over 32lbs this year (Jamie and Ryan McClennon- 33lb at 2 in 2016). His inside spread is just over 60 in and his outside spread is over 80 in. He was to wide to bring in the barn to get actual scores, he also has the CWD resistant genotype 132LM

GOLDEN WILLOW RANCH - Clive, Alberta

PH:403-784-2284

Russell & Joanne Gwozdz

gwozdzrj@platinum.ca

TINY JACK AFBR 74B

D.O.B. JUNE 17, 2014

PROV. REG TAG# AFBR 74B



AFBR 77Z

<u>AGE</u>	SCORE/Wt
2 yrs	Hard Horn
spiker	301 5/8"

SCORPION AFRI99K

BARRACUDA AFRI 24N	AFRI 2L
AFBR 38S	MAXIMUS AFRI 47K
	AFRI 55M
HIGH TOWER ABGF 62S	BOA ABGF 54N
	ABGF 49N
AFBR 48X	6-PAC AFRI 36K
	AFBR 36K



His name might be Tiny but look out. Fantastic spikes and

a 2 year old set of antlers like this. He is going to out grow his name.

FOGGY BOTTOM RANCH - Wainright, Alberta

PH:780-842-0498

Ryan & Jamie McClennon

ryanfbr1@gmail.com

UNDER ARMOUR AFBR 55Z

D.O.B. MAY 25, 2012

PROV. REG TAG# AFBR 55Z



<u>AGE</u>	SCORE/Wt
4 yrs	40.20 lbs
3 yrs	33.94 lbs
2 yrs	28.10 lbs

BARRACUDA AFRI24N

UNDER ARMOUR

AFBR 9P

SCORPION AFRI 99K

AFRI 2L

SCORPION AFRI 99K

WHIPLASH AFRI 70H

WHIPLASH AFRI 70H

WHIPLASH AFRI 70H

AFRI 36H STARBUCK ARWS 27
AOLD 212

AFRI 58H



Under Armour has consistently produced well. His pedigree is stacked and he will continue to be one of the top in his class.

FBR

FOGGY BOTTOM RANCH - Wainright, Alberta

PH:780-842-0498

McClennon's/Terry Roberts

ryanfbr1@gmail.com





2nd Largest NAEBA Registered 3 Year Old Non -Typical Ever To Stryker's 519 1/8" Score

Zeus won the 3 year old Non-typical class scoring 480 1/8", with his actual 48" spread he would have been 493"

In 2015 Zeus had four - two year old sons. They weighed 25.80, 16.02, 17.15 and 16.04 respectively for an average of 18.75 lbs.

In 2014 Zeus' first sons at two cut 22.92, 19.21 and 16.94 for a average of 19.69. giving him a two year average of 19.22 lbs.

In 2015 his three year olds averaged 27.30 lbs. with EMF 224Z weighing in at 32.82 lbs.

Zeus' 4 year old trophy bulls look great and averaged 457" in 2016 There is no doubt Zeus is passing on his genetics!

Excellent quality semen drawn by Dr. Martin Wenkoff is in the US and Canada.



4 year old Trophy Son's of Zeus



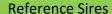
US and CANADA



SEMEN AVAILABLE



Eric, Kim, Chase and Kyra Mohlman 4985 West Blue Hill Road, Ayr, NE 68925 • 402-469-1831 • mohlmnelk@gtmc.net



ACCELERATION

D.O.B. 1993 PROV. REG TAG# ASHN 0025

	X
250	Silver Acces
The second second	ACCEI

AGE/YEAR	SCORE/Wt
9 yrs	41.42 lbs
8 yrs	39.10 lbs
7 yrs	423 5/8 "
6 yrs	39.94 lbs

BULLWINKLE THSN 14W

REED MANITOBA WILD

LERATION

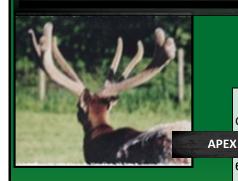
EISNER

TSHN 039W

EISNER

APEX

D.O.B. 1993 PROV. REG TAG# OR 106 NAEBA REG# AE5339



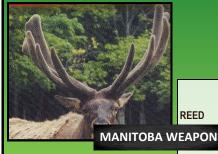
CZAR

651 ORANGE

AGE/YEAR	SCORE/Wt
6 yrs	41.66 lbs
5 yrs	30.98 lbs
4 yrs	29.19 lbs
3 yrs	21.50 lbs

MANITOBA WEAPON

D.O.B. 1990 PROV. REG TAG#



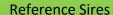
MANITOBA WILD REED

MANITOBA WILD

REED

MSVE 0021 MANITOBA WILD

AGE/YEAR	SCORE/Wt
11 yrs	44.84 lbs
10 yrs	42. 96 lbs
9 yrs	413 0/8 typ
8 vrs	43.6 lbs



MAVERICK

D.O.B. 1991 PROV. REG TAG# TOLD 0080



AGE/YEAR	SCORE/Wt
10 yrs	41.58 lbs
9 yrs	41.08 lbs
8 yrs	34.30 lbs

	White Lightning	
RICK		
v	ICK	

TCAR 257

Northern Star TMOR 3W

KING

D.O.B. 1991 REG TAG# SHR 26



Flat Top

Queenie 10

Cut 50.98 lbs of velvet and scored 506"

WHITE LIGHTNING

D.O.B. 1987



AGE/YEAR	SCORE/Wt
12 yrs	43.43 lbs
11 yrs	42.16 lbs

Northern Star

WHITE LIGHTNING

TMOR 3W

Reference Sires









Yukon Elmer 429 Typical @ mature



















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Dwayne, Todd & Jackie Veldhous 490" @ 6 YRS 65" SPREAD @ 7 YRS 583 5/8" @ 8 YRS



ASAU SYNERGY 217 & ASAU CHAIRMAN 334



OUT CROSS GENETICS! Everything here goes back to Angus, the industries High Seller, selling 1/2 interest @ \$125,000.



Click on HISTOY 707 www.antlerhillelkranch.com

Innisfail, Alberta

Allen & Eleanor Saunders 403-227-2449 WHERE QUALITY & HOSPITALITY REIGN.
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Management of Factors Known to Influence Artificial Insemination Pregnancy Rates in Elk

Artificial insemination (AI) is a powerful genetic tool that accelerates genetic gain which should result in genetic improvement and hence economic advantage. Bulls with desirable genetic traits (e.g. antler size and style, pounds of velvet production, etc.) can be used in single sire breeding programs to inseminate cows of known good genetic lines. In that manner, the mothers that produce superior bulls ("super cows") can be recognized and selected for AI programs. Bulls used in AI programs should not only have superior genetic traits, but also should be proven to have the ability to pass those traits on. Young, unproven bulls that are both genotypically and phenotypically sound and superior are often used in AI programs because of the possibility of capitalizing ahead of time on potentially valuable genetics. Frequently, results are rewarding, but this practice is always a bit of a gamble and breeders who do this should always be prepared for the possibility of some degree of failure.



Essential to have facilities that prevent cows from going forward or dropping buttocks during insemination

Super cows bred by artificial insemination with semen from superior, outcross (hybrid vigour) proven bulls will yield the highest possible genetic gains. However, taking advantage of the genetic gains realized by AI is an expensive exercise; therefore it is prudent to manage AI programs in a manner that would achieve as high a pregnancy rate as possible. Lower pregnancy rates not only increase the cost per AI calf, but also results in fewer calves being born that would likely have had more profitable genetic traits than those passed on by back-up bulls.

In order to maximize the profits and advantages of AI programs, factors that are known to lower conception rates must be recognized and managed:

I). Fertility

Cull against sub-fertility. In (beef) cattle, the trait with the highest economic value is fertility. Culling against sub-fertility (and selecting for fertility) results in more economic gain than by selecting for (culling against) all other economic traits put together (birth weight, weaning weight, rate of gain, feed efficiency, milk yield, mother ability, carcass traits). For example, if a cattle herd misses an average of just one cycle in a breeding season, approximately 12% fewer pounds of calf will be weaned in the fall (one cycle represents 21 growing days out of 180). That is exactly the same as loosing 12% of the calf crop to disease or whatever, which would be considered a disaster by the rancher. Yet, the same losses from sub-fertility usually go entirely un-noticed.

In elk, the negative effects of sub-fertility are not a result of a reduction in the pounds of calf weaned, but rather from the numbers of calves being born to back-up bulls instead of from AI bulls. Late births further compound breeding programs because the post-partum period is shortened which results in cows being less fertile in the early part of the following breeding season, again having a negative effect on AI pregnancy rates.

Another important consideration is that sub-fertile cows will pass the sub-fertility trait on to female off-spring, so cull against sub-fertility:

- 1). A cow that has had two chances at breeding (e.g. Al and back-up) and did not become pregnant should be culled (assuming, of course, that both the Al and back-up were fertile inseminations).
- 2). Cows that habitually abort, have still-births (associated or not associated with dystocia), loose calves because of poor mother ability (e.g. no milk, abandon calves) should be considered for culling.
- 3). Bulls with obvious small testicles not associated with reversible testicular degeneration or intimidation should be candidates for culling because sires with small testicles can pass sub-fertility on to daughters.

II). Nutrition

The dietary component of the ration that has the greatest effect on reproductive performance is ENERGY. Cows should be fed to come through to calving in good condition (but not fat). After calving, cows are lactating and need to be supplied with enough energy so that weight loss does not occur during the summer. Then two to three weeks prior to breeding the cows should be flushed to gain weight. In order to achieve high AI pregnancy rates, cows need to be on a positive plane of nutrition and gaining weight at the time of breeding. Low pregnancy rates will result if cows are NOT on a positive nutritional plane at breeding time.

The reproductive hormones, FSH and LH, which are responsible for estrus and ovulation, are produced by the pituitary gland which is located in the brain. If cows do not get enough energy, the brain will not release these hormones and the cow will either not cycle at all, may cycle but not ovulate, or begin cycling late in the breeding season. In any case, the cow will not become pregnant to Al and, if nutrition does not improve, will not become pregnant to the back-up bull and will not at all that year. It should be noted that the synchronizing program will not make non-cycling cows and heifers cycle. Synchronization drugs work only on cows that are already cycling. Proper nutrition is the only way to assure cycling by the beginning of the Al season.

III). Parasite control

Certain parasites can reduce weight gains even if sufficient energy is being supplied. Parasite control is part of any good livestock management program.

IV). Weaning.

Weaning calves ends lactation stress which results in immediate energy gains. A convenient time to wean calves for an AI program is when the CIDRS are put in. Some cows that were not yet cycling by AI season will begin cycling as soon as calves are weaned. Weaning also stimulates the brain to release FSH and LH. In the early days of elk AI programs, we were able to increase AI pregnancy rates by as much as 30% by weaning calves when the CIDRS went in.

V). Fine-tuning your program

Pregnancy rates can be further boosted by excluding from the program animals that may have a less chance of becoming pregnant to AI:

- 1). Any cow that was exposed to breeding but did not raise a calf. This includes open cows, cows that aborted, had calving problems and cows that lost the calf for any reason. These cows are frequently very fat by breeding season, have high amounts of internal fat, may be "urine poolers" and are often difficult to inseminate.
- 2). First calf heifers that are in poor condition. It is difficult for these animals to nurse a calf, grow, and have enough energy left over to reproduce. First calvers frequently cycle later in the season, and therefore may not even be cycling by Al time regardless of being given supplement.

VI). Synchronization care and hygiene

The introduction of bacteria at CIDR-in &/or CIDR-out can result in sub-clinical vaginal/cervical infections & a reduction in pregnancy rates. Injecting cows with antibiotics at CIDR-in and CIDR-out may help to prevent infections, but this practice could be considered as indiscriminate use of antibiotics. Infections associated with synchronization can be entirely prevented by practicing proper hygiene. Wear new latex or vinyl glove for each cow when inserting or pulling CIDRS. Wash the CIDR gun with a Virkon solution & rinse with distilled water between cows (every time!). Do not set the loaded CIDR gun on anything other than a sterile field or a clean paper towel. Do not handle cows, gates etc. with the same gloves that you insert or pull CIDRS with. Lubricate the CIDR & gun with a chlorhexidine lubricating gel or with chlorhexidine ointment.

VII). Al in heifers

1). Yearlings. Both AI and natural service pregnancy rates in yearling heifers are usually lower than in cows, but not always. Heifers are generally more difficult to AI than cows; it often requires three or four minutes to AI a heifer. For breeding programs, especially AI, heifers should be selected according to weight as well as age considerations. Puberty is not reached until a heifer has reached about 65% of adult weight. If heifers have not reached around 65% of adult weight (approximately 465-485 lbs.) by AI time, puberty would not have begun yet, the heifer (in spite of being given synchronizing drugs) will not be in heat and the semen would be wasted2). Two year old virgins. Many heifers are held over and bred at two years of age. These

heifers are generally very fertile. However, in spite of greater size, some are more difficult to Al breed than yearlings, especially those that are in a fat condition.

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Proper nutrition is essential for flushing (weight gain) prior to breeding



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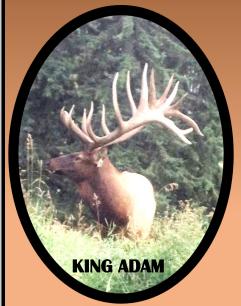
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