



# CROSSBREEDING GENETICS SIRES

## CROSSBREEDING GENETICS

### NORWEGIAN RED

		December 2011 USDA Sire Summary Information										Norwegian Red December 2011 Data												
PRICE	COLOR	HORN STATUS	MILK RELIABILITY	MILK	PROTEIN	FAT	PROTEIN %	FAT %	DTRS	NORWEGIAN TOTAL MERIT INDEX	MASTITIS RESISTANCE	RESISTANCE TO OTHER DISEASES	DAUGHTER FERTILITY	SERVICE SIRE CALVING EASE	DAUGHTER CALVING EASE	SERVICE SIRE STILLBIRTH	DAUGHTER STILLBIRTH	TEMPERAMENT	MILKING SPEED	NORWEGIAN UDDER INDEX	DISTANCE FROM UDDER TO FLOOR	FEET & LEGS	PEDIGREE	
252NR10556	<b>MOTRØEN</b>	Red	Polled	82	1498	63	43	0.08	-0.07	260	19	99	97	111	104	108	103	101	104	103	108	102	104	RYGGVOLD X ULSAKER
252NR10624	<b>RUUD</b>	Black	Horned	81	2778	88	94	0.00	-0.07	176	16	87	97	94	95	97	96	98	111	99	113	99	109	BRENDEN X RISA
252NR10402	<b>BOSNES</b>	Red	Horned	82	1956	77	77	0.08	0.01	245	17	95	106	104	121	96	126	109	104	95	102	107	91	LIURO X GALDE
252NR10579	<b>EGGTRØEN</b>	Red	Polled	82	1844	81	68	0.11	-0.02	252	26	105	110	107	83	110	94	117	94	93	102	111	90	GUTERUD X RÅNES
252NR10544	<b>TRANMAEL</b>	Red	Horned	83	1814	74	86	0.09	0.08	271	19	97	104	90	78	100	100	100	93	98	124	107	103	ORRFRYD X BRENNØ
252NR10115	<b>RAASTAD</b>	Red	Horned	86	1066	44	45	0.06	0.02	4245	10	95	103	104	80	112	89	105	111	123	115	105	82	BRANDSTADMOEN X HILSTAD
252NR10432	<b>VELSVIK</b>	Red	Horned	82	312	28	56	0.10	0.24	219	24	113	128	123	118	103	110	105	102	115	117	113	98	MJELLEM X RÅNES
252NR10553	<b>NORDBØ</b>	Black	Polled	82	1102	48	62	0.07	0.10	263	9	94	91	109	104	93	102	98	113	103	111	99	89	SALTE X BRANDSTADMOEN
252NR10039	<b>HAGA</b>	Red	Horned	89	1559	57	72	0.04	0.06	5896	9	91	98	107	97	102	91	91	113	91	114	93	93	BAKKER X BACKGÅRD

### December 2011 Data

PRICE	RELIABILITY PRODUCTION	DTRS/HERDS	MILK	PROTEIN	FAT	PROTEIN %	FAT %	MILKING SPEED	TEMPERAMENT	SOMATIC CELL	LONGEVITY	FERTILITY	CALVING EASE	CALVING ABILITY	RELIABILITY	DTRS/HERDS	TOTAL TYPE	UDDER	TEATS	BODY	RUMP	FEET & LEGS	BETA CASEIN	PEDIGREE	
29H012512	<b>EVOLUTION</b>	97	205/66	-136	0.05	9.8	0.05	0.2	0.92	1.25	-12	0.2	3.6	2.4	NA	65	39/14	1.86	1.46	NA	NA	NA	1.5	A1/B	DOVEAHYLKE x PEGASUS
29H012523	<b>QUENTIN</b>	97	191/58	50	5.8	3.7	0.05	0.01	-1.67	2.01	-1	0.5	8.3	2.9	NA	75	50/15	2.14	1.42	NA	NA	NA	2.53	A1/A1	DOVEAHYLKE x ORCHID
29H012466	<b>RANCHER</b>	94	95/20	366	15.1	13.5	0.03	-0.03	-0.28	0.04	11	0.2	-2.6	1.1	NA	65	22/3	0.97	0.95	NA	NA	NA	0.61	A1/A1	TORRELO X PANATELLA
29H012559	<b>TARQUIN</b>	95	116/43	147	9.1	12.6	0.05	0.08	-1.13	-1.54	-9	0.4	6.6	0.6	NA	67	28/7	0.81	0.75	NA	NA	NA	0.42	A1/A1	DOVEAHYLKE x COMMANDER

	PRICE	PEDIGREE
<b>MONTBELIARDE</b>		
217M046883	<b>ULIVIN</b>	MERCI x OVIEDO
217M046500	<b>VARLET</b>	ORAN JB x HAWK
217M046625	<b>UBAB</b>	BAOBAB x EZOZO
180M046612	<b>ROBOT JB</b>	GONCOURT x FAUCON
217M062728	<b>TORONTO</b>	MERCI x FAUCON

CROSSBREEDING YOUNG SIRES		
	PRICE	PEDIGREE
<b>CROSSBREED F1 SIRES</b>		
29MS5647	<b>LANDOVER</b>	FABER-RED X KAISER-RED
29XX10005	<b>SHARK</b>	MTOTO X HALLMARK
<b>SCANDINAVIAN RED</b>		
29RE0001	<b>ICEMAN</b>	STENSJO X HYLLELA

Note that proofs for Norwegian Red and Montbeliarde bulls cannot be compared directly with bulls from other breeds because the genetic bases differ.

For Norwegian Red Sires:  
Production proof traits are from December 2011 USDA sire summary and expressed as pounds of Milk, Fat, and Protein. All traits (other than Production traits) are expressed as breeding values, instead of PTAs. Norwegian proofs are expressed as relative breeding values where the average value is 100 and the standard deviation is 10. Higher values are desirable for almost all traits. Higher values for Milking Speed and Temperament indicate faster Milking Speed and more docile Temperament. For the Mastitis Resistance, Fertility and Health traits, larger numbers indicate improved mastitis resistance, better female fertility and better health. Calving Ease and Stillbirths are also expressed with an average of 100 and a standard deviation of 10. Higher values indicate less calving difficulty and reduced stillbirths. Bulls with service sire calving ease of 100 or higher can be used on virgin heifers from any breed or on any crossbred heifer.

For Montbeliarde Sires:  
All traits are expressed as breeding values, instead of PTAs. This means that differences between bulls for traits like the Production traits, Longevity, Fertility and Somatic Cells are 2X larger than what these differences would be if represented using the U.S. approach. Production proofs are expressed as pounds of Milk, Fat, and Protein and percents of components relative to the Montbeliarde genetic base population. Larger values indicate more yield. Milking Speed and Temperament are expressed as relative Breeding Values where the average value is 100 and the standard deviation is 12. Values larger than 100 indicate faster Milking Speed and more docile Temperament. For the Somatic Cell, Fertility and Longevity traits, larger numbers indicate more mastitis resistance, better female fertility, and more longevity. These traits have averages of zero and standard deviations = 1. Calving Ease is expressed as the % of calvings in 1st calf heifers that are not difficult, where values that are larger than 89% indicate less calving difficulty than average. Bulls with calving ease of 90% and lower are not recommended for virgin heifer breedings. Linears and Type Composites are expressed as relative Breeding Values where the average value is 100 and the standard deviation is 12. Values larger than 100 are favorable for all linears except the following traits where 100 is the optimum value: Teat Length, Rump Angle, Rear Leg Set, Front Teat Placement, and Udder Balance.



## CROSSBREEDING MANAGEMENT SYSTEM

# BOSNES

252NR10402 BOSNES  
Born: 6/29/2004 aAa 3 5 1 4 2 6 Color: Red Horn Status: Horned



P: LUIRO X GALDE X NYLØKKEN  
S: FAY 23001 LUSI KOTTILAN LUIRO  
D: 00303  
MGS: 05156 GALDE

IB-M/USA 12/11 (*10)	<b>Dtrs</b> 245	<b>Herds</b> 244	<b>TMI</b> +17
<b>Milk</b>	+1956	% Test	Rel
<b>Protein</b>	+77	+0.08	82
<b>Fat</b>	+77	+0.01	82
<b>Kappa Casein</b>	AA	<b>Beta Casein</b>	A2/A2

NR 12/11	85	100	120
Service Sire Calving Ease	121		
Daughter Calving Ease	96		
Service Sire Stillbirths	126		
Daughter Stillbirths	109		
Daughter Fertility	104		
Mastitis Resistance	95		
Other Disease Resistance	106		

NR 12/11	85	100	120
Stature	102	Tall	
Body Depth	94	Shallow	
Rump Angle	94	High Pins	
<b>Legs Total</b>	<b>91</b>		
Side View	106	Curved	
Rear View	103	Straight	
Foot Angle	85	Low	
<b>Udder Total</b>	<b>102</b>		
Udder-Floor Distance	107	Long	
Fore Udder Attachment	96	Loose	
Rear Udder Height	104	High	
Udder Cleft	115	Strong	
Udder Balance	99	High Rear	
Teat Length	86	Short	
Fore Teat Placement	110	Close	
Rear Teat Placement	71	Close	
Milking Speed	95	Slow	
Temperament	104	Quiet	

dtr: 252NR10402 BOSNES

# EGGTRØEN

252NR10579 EGGTRØEN  
Born: 9/28/2005 Color: Red Horn status: Polled



P: Guterud X Rånes X Y.Nærland  
S: 05618 Guterud  
D: 00221 Rødlin  
MGS: 04939 Rånes

IB-M/USA 12/11 (*10)	<b>Dtrs</b> 252	<b>Herds</b> 244	<b>TMI</b> +26
<b>Milk</b>	+1844	% Test	Rel
<b>Protein</b>	+81	+0.11	82
<b>Fat</b>	+68	-0.02	82
<b>Kappa Casein</b>	AA	<b>Beta Casein</b>	A2/A2

NR 12/11	85	100	120
Service Sire Calving Ease	83		
Daughter Calving Ease	110		
Service Sire Stillbirths	94		
Daughter Stillbirths	117		
Daughter Fertility	107		
Mastitis Resistance	105		
Other Disease Resistance	110		

NR 12/11	85	100	131
Stature	108	Tall	
Body Depth	94	Shallow	
Rump Angle	104	Sloped	
<b>Legs Total</b>	<b>90</b>		
Side View	106	Curved	
Rear View	88	Hock In	
Foot Angle	86	Low	
<b>Udder Total</b>	<b>102</b>		
Udder-Floor Distance	111	Long	
Fore Udder Attachment	103	Strong	
Rear Udder Height	107	High	
Udder Cleft	84	Weak	
Udder Balance	89	High Rear	
Teat Length	112	Long	
Fore Teat Placement	96	Wide	
Rear Teat Placement	104	Wide	
Milking Speed	93	Slow	
Temperament	94	Nervous	

dtr: 252NR10579 EGGTRØEN daughter, Finnesand Samdrift

# HAGA

252NR10039 HAGA  
Born: 9/2/2001 aAa 3 1 5 2 4 6 Color: Red Horn Status: Horned



P: BAKKER X BACKGÅRD X E.TVEITAN  
S: 05078 BAKKER  
D: 00439 MARI  
MGS: SRB 93082 BACKGÅRD

IB-M/USA 12/11 (*10)	<b>Dtrs</b> 5896	<b>Herds</b> 3966	<b>TMI</b> +9
<b>Milk</b>	+1559	% Test	Rel
<b>Protein</b>	+57	+0.04	89
<b>Fat</b>	+72	+0.06	89
<b>Kappa Casein</b>	AA	<b>Beta Casein</b>	A1/A2

NR 12/11	85	100	120
Service Sire Calving Ease	97		
Daughter Calving Ease	102		
Service Sire Stillbirths	91		
Daughter Stillbirths	91		
Daughter Fertility	107		
Mastitis Resistance	91		
Other Disease Resistance	98		

NR 12/11	85	100	315
Stature	98	Short	
Body Depth	95	Shallow	
Rump Angle	109	Sloped	
<b>Legs Total</b>	<b>93</b>		
Side View	88	Straight	
Rear View	92	Hock In	
Foot Angle	88	Low	
<b>Udder Total</b>	<b>114</b>		
Udder-Floor Distance	93	Short	
Fore Udder Attachment	108	Strong	
Rear Udder Height	104	High	
Udder Cleft	108	Strong	
Udder Balance	100		
Teat Length	86	Short	
Fore Teat Placement	124	Close	
Rear Teat Placement	93	Close	
Milking Speed	91	Slow	
Temperament	113	Quiet	

dtr: 252NR10039 HAGA

# MOTRØEN

252NR10556 MOTRØEN  
Born: 8/19/2005 aAa 3 4 5 2 1 6 Color: Red Horn status: Polled



P: RYGGVOLD X ULSAKER X MOEN  
S: 05612 RYGGVOLD  
D: 00310 IRMEROS  
MGS: 05277 ULSAKER

IB-M/USA 12/11 (*10)	Dtrs 260	Herds 250	TMI +19
<b>Milk</b>	+1498	% Test	Rel
<b>Protein</b>	+63	+0.08	82
<b>Fat</b>	+43	-0.07	82
<b>Kappa Casein</b>	AA	<b>Beta Casein</b>	A2/A2

NR 12/11		85	100	120	140 Dtr
Stature	98 Short				
Body Depth	110 Deep				
Rump Angle	102 Sloped				
<b>Legs Total</b>	<b>104</b>				
Side View	92 Straight				
Rear View	100				
Foot Angle	99 Low				
<b>Udder Total</b>	<b>108</b>				
Udder-Floor Distance	102 Long				
Fore Udder Attachment	114 Strong				
Rear Udder Height	100				
Udder Cleft	105 Strong				
Udder Balance	100				
Teat Length	97 Short				
Fore Teat Placement	112 Close				
Rear Teat Placement	86 Close				
Milking Speed	103 Fast				
Temperament	104 Quiet				

dtr: 252NR10556 MOTRØEN

# NORDBØ

252NR10553 NORDBØ  
Born: 8/24/2005 aAa 5 1 3 6 4 2 Color: Black Horn Status: Homozygous Polled



P: SALTE X BRANDSTADMOEN X NYLØKKEN  
S: 05583 SALTE  
D: 00333  
MGS: 04948 BRANDSTADMOEN

IB-M/USA 12/11 (*10)	Dtrs 263	Herds 253	TMI +9
<b>Milk</b>	+1102	% Test	Rel
<b>Protein</b>	+48	+0.07	82
<b>Fat</b>	+62	+0.1	82
<b>Kappa Casein</b>	AA	<b>Beta Casein</b>	A2/A2

NR 12/11		85	100	120	131 Dtr
Stature	97 Short				
Body Depth	97 Shallow				
Rump Angle	104 Sloped				
<b>Legs Total</b>	<b>89</b>				
Side View	100				
Rear View	96 Hock In				
Foot Angle	97 Low				
<b>Udder Total</b>	<b>111</b>				
Udder-Floor Distance	99 Short				
Fore Udder Attachment	117 Strong				
Rear Udder Height	123 High				
Udder Cleft	91 Weak				
Udder Balance	79 High Rear				
Teat Length	93 Short				
Fore Teat Placement	121 Close				
Rear Teat Placement	87 Close				
Milking Speed	103 Fast				
Temperament	113 Quiet				

dtr: 25210553 NORDBØ

# RAASTAD

252NR10115 RAASTAD  
Born: 4/6/2002 aAa 1 5 3 6 2 4 Color: Red Horn Status: Horned



P: BRANDSTADMOEN X HILSTAD X NYTRØEN  
S: 04948 BRANDSTADMOEN  
D: 00303  
MGS: 04550 HILSTAD

IB-M/USA 12/11 (*10)	Dtrs 4245	Herds 3160	TMI +10
<b>Milk</b>	+1066	% Test	Rel
<b>Protein</b>	+44	+0.06	86
<b>Fat</b>	+45	+0.02	86
<b>Kappa Casein</b>	AA	<b>Beta Casein</b>	A2/A2

NR 12/11		85	100	120	250 Dtr
Stature	105 Tall				
Body Depth	100				
Rump Angle	98 High Pins				
<b>Legs Total</b>	<b>82</b>				
Side View	89 Straight				
Rear View	92 Hock In				
Foot Angle	96 Low				
<b>Udder Total</b>	<b>115</b>				
Udder-Floor Distance	105 Long				
Fore Udder Attachment	115 Strong				
Rear Udder Height	115 High				
Udder Cleft	104 Strong				
Udder Balance	99 High Rear				
Teat Length	110 Long				
Fore Teat Placement	107 Close				
Rear Teat Placement	90 Close				
Milking Speed	123 Fast				
Temperament	111 Quiet				

dtr: 252NR10115 RAASTAD

# RUUD

252NR10624 RUUD  
Born: 3/5/2006 Color: Black Horn status: Horned



P: Brenden X Risa X J.Husveg  
S: 05694 Brenden  
D: 00596  
MGS: 04680 Risa

IB-M/USA 12/11 (\*10) **Dtrs** 176 **Herds** 165 **TMI** +16

<b>Milk</b>	+2778	% Test	Rel
<b>Protein</b>	+88	-0.00	81
<b>Fat</b>	+94	-0.07	81
<b>Kappa Casein</b>	AA	<b>Beta Casein</b>	A2/A2

NR 12/11			
	85	100	120
Service Sire Calving Ease	95		
Daughter Calving Ease	97		
Service Sire Stillbirths	96		
Daughter Stillbirths	98		
Daughter Fertility	94		
Mastitis Resistance	87		
Other Disease Resistance	97		

NR 12/11			
	85	100	120
Stature	107	Tall	
Body Depth	104	Deep	
Rump Angle	77	High Pins	
<b>Legs Total</b>	<b>109</b>		
Side View	109	Curved	
Rear View	100		
Foot Angle	114	Steep	
<b>Udder Total</b>	<b>113</b>		
Udder-Floor Distance	99	Short	
Fore Udder Attachment	96	Loose	
Rear Udder Height	103	High	
Udder Cleft	117	Strong	
Udder Balance	90	High Rear	
Teat Length	96	Short	
Fore Teat Placement	105	Close	
Rear Teat Placement	100		
Milking Speed	99	Slow	
Temperament	111	Quiet	

dtr: 252NR10624 RUUD daughter, Kåre Fuglestad

# TRANMÆL

252NR10544 TRANMÆL  
Born: 8/16/2005 aAa 5 1 3 4 6 2 Color: Red Horn status: Horned



P: Orraryd X Brenno X K.Birkelid  
S: SRB 22004 Orraryd  
D: 00004 Torlaug  
MGS: 05009 Brenno

IB-M/USA 12/11 (\*10) **Dtrs** 271 **Herds** 260 **TMI** +19

<b>Milk</b>	+1814	% Test	Rel
<b>Protein</b>	+74	+0.09	83
<b>Fat</b>	+86	+0.08	83
<b>Kappa Casein</b>	AA	<b>Beta Casein</b>	A1/A2

NR 12/11			
	85	100	120
Service Sire Calving Ease	78		
Daughter Calving Ease	100		
Service Sire Stillbirths	100		
Daughter Stillbirths	100		
Daughter Fertility	90		
Mastitis Resistance	97		
Other Disease Resistance	104		

NR 12/11			
	85	100	148 Dtr
Stature	115	Tall	
Body Depth	93	Shallow	
Rump Angle	79	High Pins	
<b>Legs Total</b>	<b>103</b>		
Side View	106	Curved	
Rear View	92	Hock In	
Foot Angle	110	Steep	
<b>Udder Total</b>	<b>124</b>		
Udder-Floor Distance	107	Long	
Fore Udder Attachment	107	Strong	
Rear Udder Height	107	High	
Udder Cleft	122	Strong	
Udder Balance	101	Low Rear	
Teat Length	103	Long	
Fore Teat Placement	109	Close	
Rear Teat Placement	101	Wide	
Milking Speed	98	Slow	
Temperament	93	Nervous	

dtr: 252NR10544 TRANMÆL daughter, Rege Gard-Bovi

# VELSVIK

252NR10432 VELSVIK  
Born: 8/20/2004 aAa 5 3 1 4 6 2 Color: Red Horn Status: Horned



P: MJELLEM X RÅNES X ABELSETH  
S: 05300 MJELLEM  
D: 00044 GULLHÅR  
MGS: 04939 RÅNES

IB-M/USA 12/11 (\*10) **Dtrs** 219 **Herds** 216 **TMI** +24

<b>Milk</b>	+312	% Test	Rel
<b>Protein</b>	+28	+0.1	82
<b>Fat</b>	+56	+0.24	82
<b>Kappa Casein</b>	AB	<b>Beta Casein</b>	A1/A2

NR 12/11			
	85	100	120
Service Sire Calving Ease	118		
Daughter Calving Ease	103		
Service Sire Stillbirths	110		
Daughter Stillbirths	105		
Daughter Fertility	123		
Mastitis Resistance	113		
Other Disease Resistance	128		

NR 12/11			
	85	100	115 Dtr
Stature	99	Short	
Body Depth	100		
Rump Angle	97	High Pins	
<b>Legs Total</b>	<b>98</b>		
Side View	104	Curved	
Rear View	102	Straight	
Foot Angle	89	Low	
<b>Udder Total</b>	<b>117</b>		
Udder-Floor Distance	113	Long	
Fore Udder Attachment	122	Strong	
Rear Udder Height	95	Low	
Udder Cleft	115	Strong	
Udder Balance	94	High Rear	
Teat Length	99	Short	
Fore Teat Placement	102	Close	
Rear Teat Placement	108	Wide	
Milking Speed	115	Fast	
Temperament	102	Quiet	

dtr: 252NR10432 VELSVIK

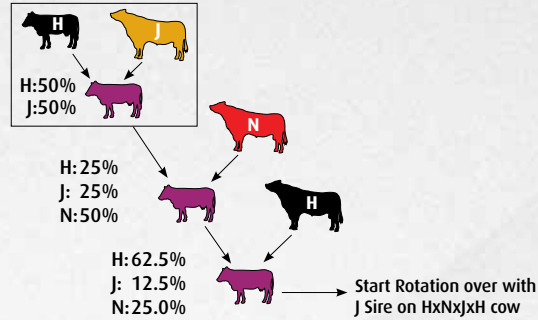


## CROSSBREEDING MANAGEMENT SYSTEM<sup>®</sup>

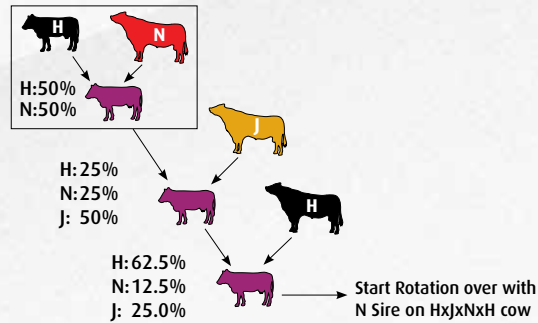
With the recent addition of Norwegian Red to the ABS sire lineup, ABS is introducing its Crossbreeding Management System (CMS) program. Through CMS, ABS offers a **THREE-BREED, rotational CROSSBREEDING PROGRAM** involving the Holstein, Jersey and Norwegian Red breeds.

### THREE-BREED ROTATIONAL CROSSBREEDING

#### OPTION #1 Jersey Sire x Holstein Cow



#### OPTION #2 Norwegian Red Sire x Holstein Cow



Contact your local ABS Representative or call 1-800-ABS-STUD to learn more.

## ABS Program Benefits

In extensive research, Norwegian Red sires have added profitability to a crossbreeding program with:

- Improved Fertility
- Increased Survival
- Improved Mastitis Resistance
- Improved Resistance to Other Diseases
- Improved Calving Performance
- Increased Percentages of Fat and Protein



*"I was in Norway last September. I'm impressed! The cows were very sturdy and had more dairy quality than I expected. They had excellent feet and legs and great herd health traits. In my own area, Norwegian Red semen has superior fertility. I'm excited to get more milking in my area."*

**Jim Griggs, Marsing, ID**  
Area Sales Manager, ABS Global