

Spring
2023

Holstein Sire Directory



BETTER COWS > BETTER LIFE

CRV, leading
in health and efficiency



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Information from CDCB 04.23 production and HA 04.23 type evaluations

097HO42852 MECANICO



MECANICO



NEW CREATE

PEAK MECANICO-ET

ALTAKEVLOW X ALTAZAZZLE X MARIUS

HO840003247843199

DOB: 20220208

aAa: 243651

DMS: 456,561

99% RHA

BETA CASEIN: A1A2 KAPPA CASEIN: BE

LACTOGLOBULIN: AB HAPLOTYPES: HH6

PGS: PEAK ALTAPLINKO

PGD: PEAK ELEANOR

S: PEAK ALTAKEVLOW-ET

D: PEAK MECCA-ET

MGS: PEAK ALTAZAZZLE

MGD: PEAK MISHKA-ET

CRV EFFICIENCY 22%			
LONGEVITY 375		FEED EFFICIENCY 113	

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 78% REL	
MILK	787	CFP	174
FAT	+115 +0.29%	SCS	2.69
PROTEIN	+59 +0.12%	MUN	-0.1
LACTOSE	+46 -0.07%	METHANE	-
FEED SAVED	323	RFI	-116

HEALTH TRAITS			
PL	7	MILK FEVER	0
COW LIVABILITY	2.9	DAB	0.2
HEIFER LIVABILITY	0.4	KETOSIS	1.7
CALF SURVIVAL	-	MAS (U.S.)	3
CLINICAL MASTITIS	99	METRITIS	1.9
SUB CLINICAL MASTITIS	101	RETAINED PLACENTA	0.4
TEMP	102	PERS	-

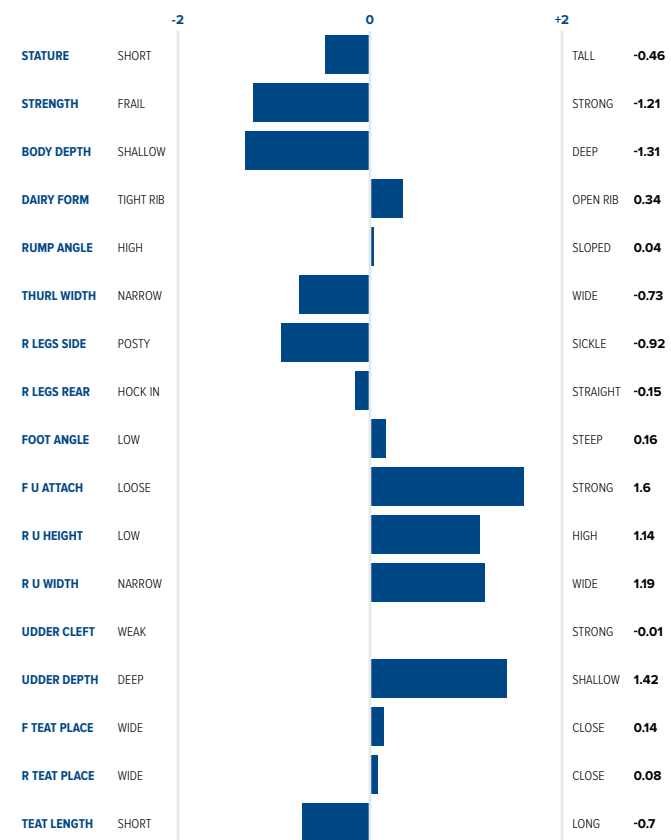
CALVING TRAITS & FERTILITY			
DPR	1.2	FERTILITY INDEX	1.5
CCR	3.2	EFC	1.7
HCR	1.8	GESTATION LENGTH	-2.5
CALVING INTERVAL	104	BW	93
SCE	1.5	SSB	5.9
DCE	1.8	DSB	5.4

MILK ROBOT			
ROBOT INDEX	105	ROBOT EFFICIENCY	104
		ROBOT INTERVAL	102

 CRV HEALTH 6%		
HOOF HEALTH 102	UDDER HEALTH 100	FERTILITY 106

INDEX			
NM\$	1227	GTPI	3105
CM\$	1253	FM\$	1052
		GM\$	1213

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 77% REL			
PTAT	0.59	UDC	1.27	FLC	0.24
		BWC	-1.37	LOC	96



097HO42880 DOORDASH

NEW



**KINGS-RANSOM
DOORDASH-ET**
DRIVE X ACURA X SAMURI
HO840003236793934
DOB: **20211201**
aAa: **231465**
DMS: **345,234**
99% RHA

DOORDASH

S: KINGS-RANSOM LEGCY
DRIVE-ET
D: KINGS-RANSOM ACURA
DANIO-ET

PGS PINE-TREE CW LEGACY

PGD: KINGS-RANSOM FRE
DOLLARS-ET

MGS: PINE-TREE ACURA

MGD: KINGS-RANSOM SAMURI
DONNA

CRV EFFICIENCY -%	
LONGEVITY -	FEED EFFICIENCY -

CRV HEALTH -%		
HOOF HEALTH -	UDDER HEALTH -	FERTILITY -

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1071	FAT +100	+0.20%	PRO +57	+0.08%	LACT -	-%
SCS	2.74	CFP	157	MUN	-	METHANE	-
FEED SAVED	222	RFI	-148				

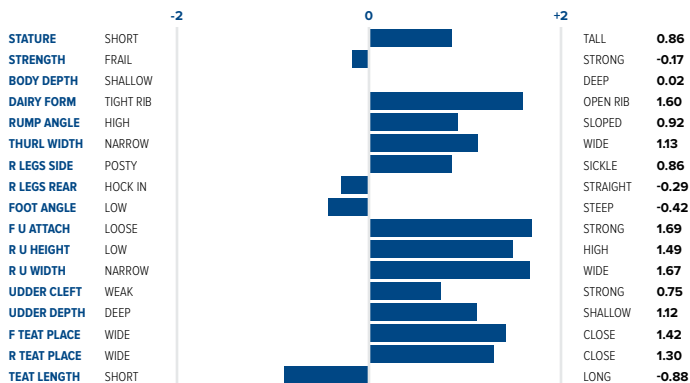
HEALTH TRAITS			
PL	5.4	COW LIVABILITY 2.6	H. LIVABILITY 0.5
MILK FEVER	-0.1	DAB	0.7
MAS (U.S.)	1.9	CL MASTITIS -	S-CL MASTITIS -
TEMP	-	PERS	-

CALVING TRAITS & FERTILITY			
DPR	1.0	CCR	2.8
EFC	3.9	G. LENGTH	-1.7
SCE	2.1	SSB	5.6

MILK ROBOT			
ROBOT INDEX	-	ROBOT EFFICIENCY	-
		ROBOT INTERVAL	-

INDEX			
NM\$	1071	GTPI	3018
NVI		CM\$	1090
		FM\$	946
		GM\$	1068

CONFORMATION			
PTAT	1.19	UDC	1.27
FLC	-0.18	BWC	-0.48
LOC	-		



097HO42878 OVERTHERE

NEW CREATE
FEED EXCEL
Breeding for Feed Efficiency



**LADYS-MANOR
OVERTHERE-ET**
DRIVE X GRANITE X
MILLINGTON
HO840003238997237
DOB: **20210903**
aAa: **342516**
DMS: **234,345**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BE**
LACTOGLOBULIN: **AB**

OVERTHERE

S: KINGS-RANSOM LEGCY
DRIVE-ET
D: LADYS-MANOR GRNT
OOHM-ET

PGS PINE-TREE CW LEGACY

PGD: KINGS-RANSOM FRE
DOLLARS-ET

MGS: PROGENESIS GRANITE

MGD: LADYS-MANOR MILTN
OOMPA-ET

CRV EFFICIENCY 12%	
LONGEVITY 228	FEED EFFICIENCY 107

CRV HEALTH 6%		
HOOF HEALTH 98	UDDER HEALTH 104	FERTILITY 105

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 80% REL			
MILK	1008	FAT +99	+0.21%	PRO +55	+0.08%	LACT +40	+0.02%
SCS	2.71	CFP	154	MUN	-0.2	METHANE	-
FEED SAVED	66	RFI	14				

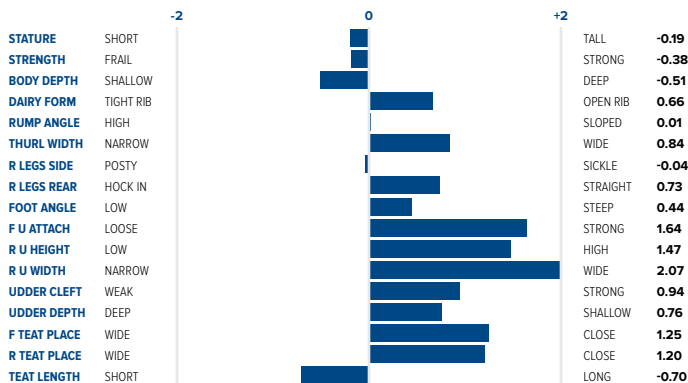
HEALTH TRAITS			
PL	5.7	COW LIVABILITY 2.4	H. LIVABILITY 0.9
MILK FEVER	0.0	DAB	0.3
MAS (U.S.)	3.0	CL MASTITIS 104	S-CL MASTITIS 104
TEMP	104	PERS	101

CALVING TRAITS & FERTILITY			
DPR	1.0	CCR	2.4
EFC	4.8	G. LENGTH	-1.7
SCE	1.3	SSB	5.2

MILK ROBOT			
ROBOT INDEX	100	ROBOT EFFICIENCY	98
		ROBOT INTERVAL	101

INDEX			
NM\$	1051	GTPI	3057
NVI	201	CM\$	1070
		FM\$	926
		GM\$	1031

CONFORMATION			
PTAT	1.16	UDC	1.53
FLC	0.74	BWC	-0.53
LOC	96		



097HO42849 COLUMBO



CLEAR-ECHO 822 RAMO 1200-ET EX-94 DOM 7TH DAM COLUMBO



COOKIECUTTER COLUMBO-ET

ALTAWHEELHOUSE X LEGACY X DUKE

HO840003228764396

DOB: **20211215**

aAa: **321546**

DMS: **234,123**

99% RHA

BETA CASEIN: **A2A2**

KAPPA CASEIN: **BB**

LACTOGLOBULIN: **AA**

PGS: PINE-TREE-I PURSUIT

PGD: PEAK MARGE

S: PEAK WHEELHOUSE-ET

D: COOKIECUTTER LEG CONNIE-ET

MGS: PINE-TREE CW LEGACY

MGD: CLEAR-ECHO ACHIEVER 4375-ET

CRV EFFICIENCY 12%			
LONGEVITY 165		FEED EFFICIENCY 107	

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 79% REL	
MILK	1181	CFP	160
FAT	+98 +0.18%	SCS	2.78
PROTEIN	+62 +0.09%	MUN	0.4
LACTOSE	+61 -0.03%	METHANE	-
FEED SAVED	32	RFI	-189

HEALTH TRAITS			
PL	5.8	MILK FEVER	-0.1
COW LIVABILITY	2.5	DAB	0.4
HEIFER LIVABILITY	1.1	KETOSIS	1.7
CALF SURVIVAL	105	MAS (U.S.)	1.5
CLINICAL MASTITIS	100	METRITIS	1.6
SUB CLINICAL MASTITIS	101	RETAINED PLACENTA	0
TEMP	104	PERS	102

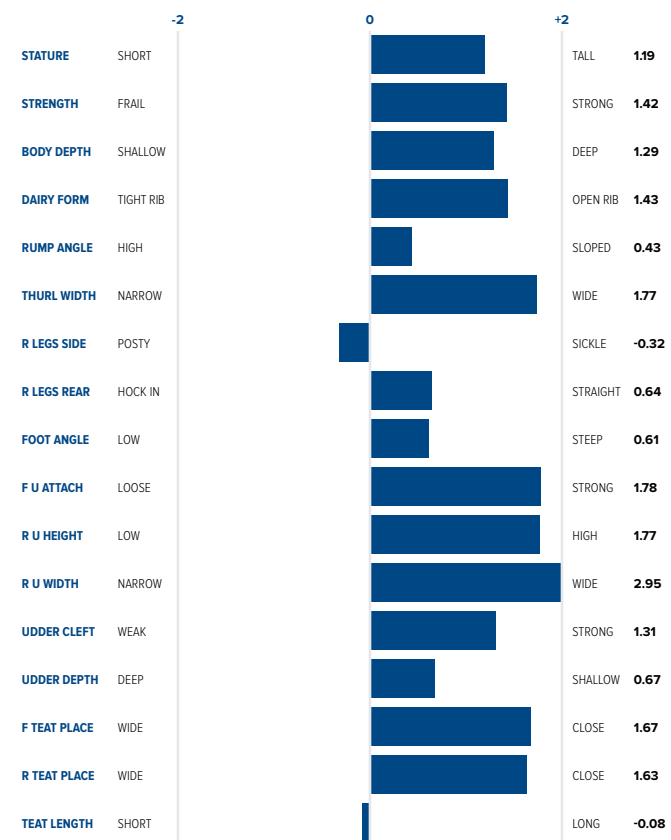
CALVING TRAITS & FERTILITY			
DPR	-0.2	FERTILITY INDEX	0.7
CCR	1.8	EFC	3.8
HCR	3	GESTATION LENGTH	-2.0
CALVING INTERVAL	102	BW	99
SCE	1.8	SSB	6.1
DCE	1.9	DSB	4.6

MILK ROBOT			
ROBOT INDEX	107	ROBOT EFFICIENCY	107
		ROBOT INTERVAL	100

CRV HEALTH 2%			
HOOF HEALTH 99	UDDER HEALTH 100	FERTILITY 104	

INDEX			
NM\$	1029	GTPI	3037
CM\$	1048	FM\$	898
		GM\$	971

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 78% REL			
PTAT	1.92	UDC	1.58	FLC	0.28
		BWC	1.03	LOC	96



097HO42719 **GADZOOKS**



GADZOOKS

MATTCREST GADZOOKS
INTRICATE X RIVETING X
GRANITE
HO840003235343045
DOB: **8/31/21**
aAa: **321456**
DMS: **135,561**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **BB**

S: PROGENESIS INTRICATE-ET
D: MATTCREST RIVETING 2145-ET

PGS PINE-TREE-I PURSUIT
PGD: JUNIPER-JLC ARCHIEVER
WISH
MGS: S-S-I BG FZZLD RIVETING
MGD: MATTCREST GRANITE
GRACE-ET

CRV EFFICIENCY 8%	
LONGEVITY 107	FEED EFFICIENCY 105

CRV HEALTH 3%		
HOOF HEALTH 101	UDDER HEALTH 102	FERTILITY 103

PRODUCTION			DAUGHTERS 0 • HERDS 0 • 79% REL		
MILK	983	FAT +117	+0.27%	PRO +59	+0.10%
SCS	2.80	CFP	176	MUN	0
FEED SAVED	-68	RFI	50	LACT	+25
				METHANE	-0.01%

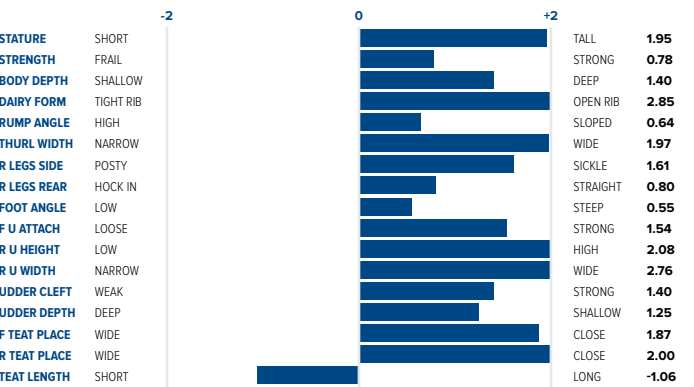
HEALTH TRAITS			
PL	4.0	COW LIVABILITY 0.4	H. LIVABILITY 0.7
MILK FEVER	0.1	DAB	0.9
MAS (U.S.)	1.7	CL MASTITIS 101	S-CL MASTITIS 102
TEMP	103	PERS	98
		KETOSIS	1.2
		METRITIS	0.8
		RET PLACENTA	-0.1

CALVING TRAITS & FERTILITY			
DPR	-2.1	CCR	-0.8
EFC	3.4	G. LENGTH	-1.7
SCE	1.8	SSB	6.0
		HCR	1.9
		C. INTERVAL	101
		DCE	1.5
		F. INDEX	-1.0
		BW	98
		DSB	3.0

MILK ROBOT			
ROBOT INDEX	106	ROBOT EFFICIENCY	107
		ROBOT INTERVAL	98

INDEX			
NM\$	963	GTPI	3007
CM\$	983	FM\$	819
GM\$	884	NVI	164

CONFORMATION			DAUGHTERS 0 • HERDS 0 • 77% REL		
PTAT	2.03	UDC	1.48	FLC	0.47
		BWC	0.12	LOC	97



097HO42424 **UPSWING**



UPSWING

PEAK UPSWING-ET
PURSUIT X DUKE X RUBICON
HO840003209641351
DOB: **8/31/19**
aAa: **243561**
DMS: **345,135**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AA**
LACTOGLOBULIN: **AA**

S: PINE-TREE-I PURSUIT-ET
D: PEAK MARGE-ET

PGS SILVERRIDGE V IMAX
PGD: PINE-TREE 9882 PROF 7019
MGS: S-S-I MONTROSS DUKE
MGD: PEAK MYSTIQUE

CRV EFFICIENCY 11%	
LONGEVITY 379	FEED EFFICIENCY 106

CRV HEALTH 4%		
HOOF HEALTH 102	UDDER HEALTH 100	FERTILITY 105

PRODUCTION			DAUGHTERS 0 • HERDS 0 • 82% REL		
MILK	1068	FAT +104	+0.22%	PRO +53	+0.07%
SCS	2.92	CFP	157	MUN	-0.1
FEED SAVED	18	RFI	-182	LACT	+35
				METHANE	-0.03%

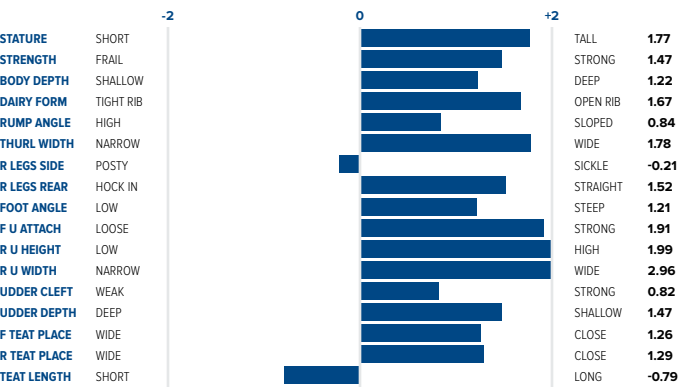
HEALTH TRAITS			
PL	5.0	COW LIVABILITY 0.5	H. LIVABILITY 0.7
MILK FEVER	0.0	DAB	0.7
MAS (U.S.)	2.8	CL MASTITIS 100	S-CL MASTITIS 101
TEMP	104	PERS	105
		KETOSIS	1.6
		METRITIS	0.6
		RET PLACENTA	-0.3

CALVING TRAITS & FERTILITY			
DPR	-1.1	CCR	0.1
EFC	3.2	G. LENGTH	-1.7
SCE	1.8	SSB	6.2
		HCR	3.8
		C. INTERVAL	103
		DCE	1.2
		F. INDEX	-0.1
		BW	100
		DSB	3.7

MILK ROBOT			
ROBOT INDEX	106	ROBOT EFFICIENCY	106
		ROBOT INTERVAL	101

INDEX			
NM\$	946	GTPI	2975
CM\$	960	FM\$	846
GM\$	877	NVI	216

CONFORMATION			DAUGHTERS 0 • HERDS 0 • 80% REL		
PTAT	1.89	UDC	1.6	FLC	1.01
		BWC	1.08	LOC	100



097HO42846 DAZZLIN



DAZZLIN



NEW CREATE

KINGS-RANSOM E DAZZLIN-ET

ENGINEER X LEGACY X CHALLENGER

HO840003247634156

DOB: 20220306

aAa: 432561

DMS: 345,456

99% RHA

BETA CASEIN: A1A2

KAPPA CASEIN: AE

LACTOGLOBULIN: AB

PGS: PINE-TREE-I PURSUIT-ET

PGD: PINE-TREE 5976 PROP 7829-ET

S: PINE-TREE ENGINEER-ET

D: KINGS-RANSOM LEGACY DEAR

MGS: PINE-TREE CW LEGACY

MGD: KINGS-RANSOM CHALLN DARA-ET

CRV EFFICIENCY 14%			
LONGEVITY 259		FEED EFFICIENCY 108	

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 79% REL	
MILK	362	CFP	168
FAT	+120 +0.37%	SCS	2.69
PROTEIN	+48 +0.13%	MUN	0.1
LACTOSE	-14 -0.08%	METHANE	-
FEED SAVED	218	RFI	-103

HEALTH TRAITS			
PL	6.5	MILK FEVER	0
COW LIVABILITY	2.9	DAB	0.2
HEIFER LIVABILITY	1.2	KETOSIS	1.5
CALF SURVIVAL	-	MAS (U.S.)	2.9
CLINICAL MASTITIS	100	METRITIS	1.6
SUB CLINICAL MASTITIS	102	RETAINED PLACENTA	0.4
TEMP	101	PERS	103

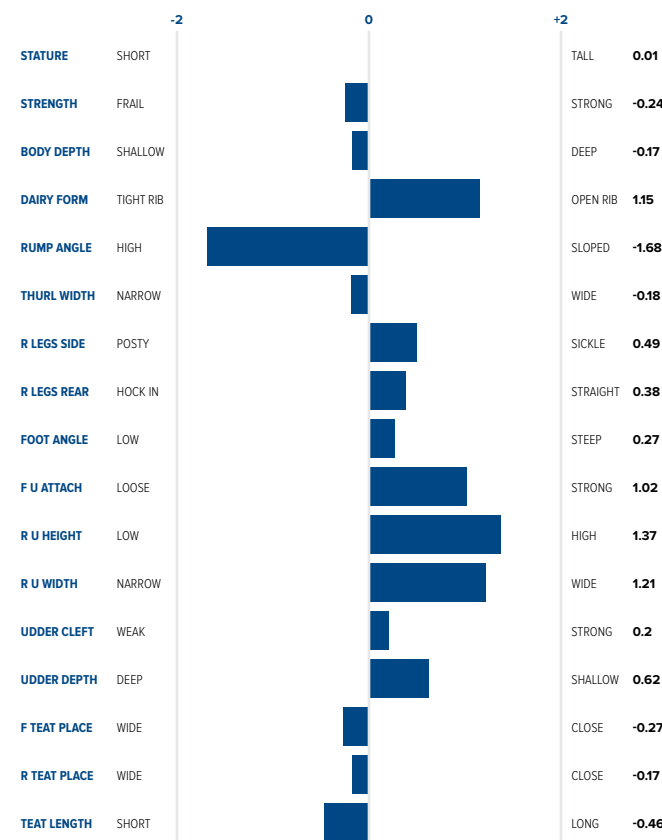
CALVING TRAITS & FERTILITY			
DPR	0.1	FERTILITY INDEX	1.1
CCR	2.1	EFC	4.6
HCR	3.5	GESTATION LENGTH	-0.6
CALVING INTERVAL	102	BW	100
SCE	1.9	SSB	6.2
DCE	2.2	DSB	4.8

MILK ROBOT			
ROBOT INDEX	107	ROBOT EFFICIENCY 108	ROBOT INTERVAL 99

CRV HEALTH 3%		
HOOF HEALTH 101	UDDER HEALTH 101	FERTILITY 104

INDEX			
NM\$	1139	GTPI	3046
CM\$	1166	FM\$	956
NVI	208	GM\$	1093

CONFORMATION			
DAUGHTERS 0 • HERDS 0 • 78% REL			
PTAT	0.96	UDC	0.93
FLC	0.57	BWC	-0.76
LOC	96		



097HO42850 ZYMURGY



PEAK ZYMURGY-ET
 ZOOTY X INCREDIBLE X
 POSITIVE
 HO840003239114885
 DOB: **20211209**
 aAa: **243165**
99% RHA
 BETA CASEIN: **A2A2**
 KAPPA CASEIN: **BB**
 LACTOGLOBULIN: **AB**

FURNACE-HILL BOWSER ZIA-ET VG-88 6TH DAM ZYMURGY

PGS PEAK ALTAZZAZLE

PGD: PEAK MARACA

S: PEAK ZOOTY-ET

D: PEAK ZAIDA-ET

MGS: PEAK INCREDIBLE

MGD: PEAK ZELDA-ET

097HO42717 TUNE

CREATE



LADYS-MANOR TONE-ET
 OUTCOME X ALPHABET X
 TORONTO
 HO840003238997219
 DOB: **7/13/21**
 aAa: **234165**
 DMS: **123,234**
99% RHA
 BETA CASEIN: **A1A2**
 KAPPA CASEIN: **BB**
 LACTOGLOBULIN: **AB**

DAM OF TUNE

PGS SANDY-VALLEY CHALLENGER

PGD: LADYS-MANOR GRNT OOHM

S: LADYS-MANOR OUTCOME-ET

D: LADYS-MANOR ALPHABET TUBA-ET

MGS: OCD HELIX ALPHABET

MGD: LADYS-MANOR SEA-TURTLE

CRV EFFICIENCY 18%	
LONGEVITY 424	FEED EFFICIENCY 110

♥ CRV HEALTH 4%		
HOOF HEALTH 103	UDDER HEALTH 102	FERTILITY 103

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 78% REL			
MILK	1324	FAT +112	+0.21%	PRO +65	+0.08%	LACT +57	-0.09%
SCS	2.69	CFP	177	MUN	0.1	METHANE	-
FEED SAVED	232	RFI	-103				

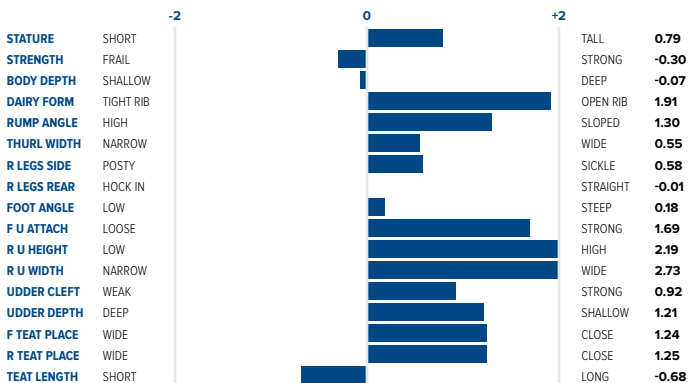
HEALTH TRAITS							
PL	5.2	COW LIVABILITY	0.7	H. LIVABILITY	0.9	CALF SURVIVAL	-
MILK FEVER	0.0	DAB	0.6	KETOSIS	1.7	METRITIS	1.3
MAS (U.S.)	2.8	CL MASTITIS	101	S-CL MASTITIS	103	RET PLACENTA	-0.1
TEMP	106	PERS	102				

CALVING TRAITS & FERTILITY							
DPR	-1.4	CCR	0.3	HCR	1.5	F. INDEX	-0.5
EFC	2.7	G. LENGTH	-2.0	C. INTERVAL	101	BW	97
SCE	1.7	SSB	5.9	DCE	1.7	DSB	4.9

MILK ROBOT					
ROBOT INDEX	112	ROBOT EFFICIENCY	112	ROBOT INTERVAL	100

INDEX											
NM\$	1112	GTPI	3057	NVI	296	CM\$	1133	FM\$	984	GM\$	1056

CONFORMATION					DAUGHTERS 0 • HERDS 0 • 76% REL				
PTAT	1.41	UDC	1.75	FLC	0.10	BWC	-0.84	LOC	100



CRV EFFICIENCY 8%	
LONGEVITY 195	FEED EFFICIENCY 104

♥ CRV HEALTH 6%		
HOOF HEALTH 100	UDDER HEALTH 100	FERTILITY 107

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1189	FAT +96	+0.17%	PRO +66	+0.10%	LACT -2	-0.04%
SCS	2.91	CFP	162	MUN	0.2	METHANE	-
FEED SAVED	-16	RFI	26				

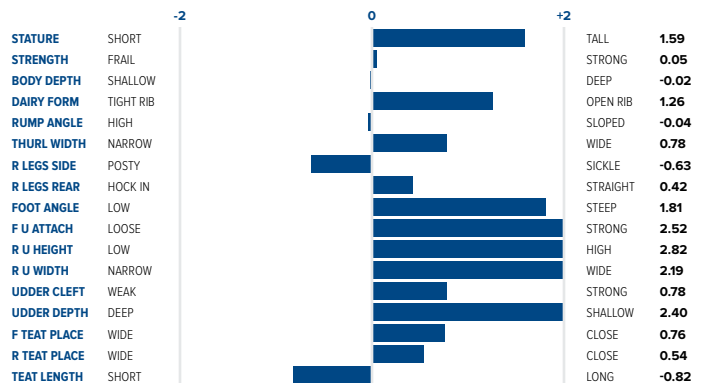
HEALTH TRAITS							
PL	4.6	COW LIVABILITY	0.6	H. LIVABILITY	0.6	CALF SURVIVAL	-
MILK FEVER	0.1	DAB	0.6	KETOSIS	1.8	METRITIS	1.8
MAS (U.S.)	0.6	CL MASTITIS	99	S-CL MASTITIS	101	RET PLACENTA	0.5
TEMP	103	PERS	104				

CALVING TRAITS & FERTILITY							
DPR	1.9	CCR	2.4	HCR	0.8	F. INDEX	2.0
EFC	3.1	G. LENGTH	-0.4	C. INTERVAL	104	BW	99
SCE	1.8	SSB	5.8	DCE	1.7	DSB	4.3

MILK ROBOT		
ROBOT INDEX	103	ROBOT EFFICIENCY 103 ROBOT INTERVAL 101

INDEX											
NM\$	988	GTPI	3075	NVI	168	CM\$	1007	FM\$	843	GM\$	1007

CONFORMATION					DAUGHTERS 0 • HERDS 0 • 79% REL				
PTAT	1.76	UDC	1.98	FLC	0.56	BWC	-0.06	LOC	92



097HO42788 TYROL

CREATE



TYROL

AURORA TYROL-ET
PARI X EISAKU X MEGA LUCK
HO840003237112600
DOB: **8/4/21**
aAa: **234156**
DMS: **126,561**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AA**
HAPLOTYPES: **HH5**

PGS: S-S-1 PR RENEGADE
PGD: SIEMERS LMDA PARIS 27856
MGS: SANDY-VALLEY EISAKU
MGD: SIEMERS LMDA PARIS 27856

S: SIEMERS RENG D PERFECT-ET
D: AURORA EISAKU 22100-ET

CRV EFFICIENCY 6%			
LONGEVITY 273		FEED EFFICIENCY 102	

CRV HEALTH 2%			
HOOF HEALTH 103		UDDER HEALTH 101	FERTILITY 105

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 81% REL			
MILK	1301	FAT +89	+0.13%	PRO +67	+0.09%	LACT +37	+0.05%
SCS	2.93	CFP	156	MUN	0	METHANE	-
FEED SAVED	-121	RFI	-103				

HEALTH TRAITS							
PL	5.6	COW LIVABILITY	2.2	H. LIVABILITY	0.5	CALF SURVIVAL	-
MILK FEVER	0.1	DAB	0.5	KETOSIS	2.0	METRITIS	2.0
MAS (U.S.)	2.5	CL MASTITIS	100	S-CL MASTITIS	102	RET PLACENTA	0.0
TEMP	105	PERS	-				

CALVING TRAITS & FERTILITY							
DPR	1.3	CCR	2.6	HCR	3.2	F. INDEX	1.8
EFC	3.3	G. LENGTH	-0.2	C. INTERVAL	103	BW	104
SCE	2.8	SSB	6.7	DCE	2.3	DSB	4.8

MILK ROBOT								
ROBOT INDEX		109	ROBOT EFFICIENCY		108	ROBOT INTERVAL		102

INDEX											
NM\$	964	GTPI	3095	NVI	186	CM\$	981	FM\$	831	GM\$	939

CONFORMATION				DAUGHTERS 0 • HERDS 0 • 79% REL					
PTAT	2.35	UDC	1.61	FLC	1.56	BWC	1.47	LOC	103



097HO42628 TICTOC

CREATE

FEED EXCEL



TICTOC

SIEMERS TICTOC-ET
ALPHABET X LIONEL X
DELTA
HO840003218556335
DOB: **2/13/21**
aAa: **423651**
DMS: **234,345**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AA**

S: OCD HELIX ALPHABET-ET
D: SIEMERS LINL THYME 31413-ET

PGS: AOT SILVER HELIX
PGD: OCD YODER AVERY 4119
MGS: MR T-SPRUCE FRAZZ LIONEL
MGD: MS FARNEAR TRUDY THYME

CRV EFFICIENCY 16%			
LONGEVITY 245		FEED EFFICIENCY 110	

CRV HEALTH 2%			
HOOF HEALTH 100		UDDER HEALTH 102	FERTILITY 101

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 81% REL			
MILK	2016	FAT +128	+0.17%	PRO +70	+0.02%	LACT +57	-0.04%
SCS	2.96	CFP	198	MUN	0	METHANE	-
FEED SAVED	211	RFI	-26				

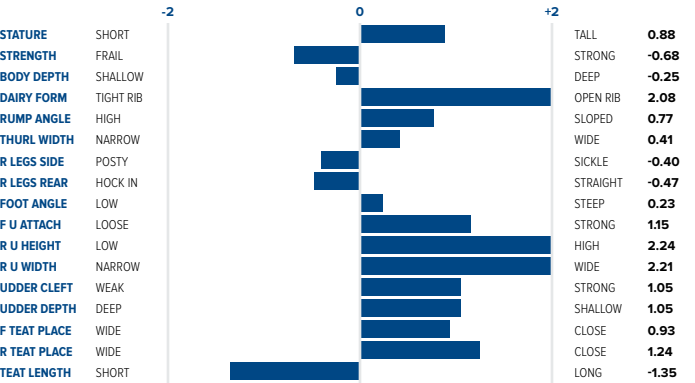
HEALTH TRAITS							
PL	4.1	COW LIVABILITY	0.4	H. LIVABILITY	1.0	CALF SURVIVAL	-
MILK FEVER	0.2	DAB	0.5	KETOSIS	2.1	METRITIS	0.0
MAS (U.S.)	0.7	CL MASTITIS	101	S-CL MASTITIS	102	RET PLACENTA	-0.6
TEMP	103	PERS	103				

CALVING TRAITS & FERTILITY							
DPR	-1.2	CCR	0.1	HCR	1.0	F. INDEX	-0.5
EFC	2.2	G. LENGTH	-2.8	C. INTERVAL	101	BW	97
SCE	2.0	SSB	5.7	DCE	2.3	DSB	5.5

MILK ROBOT								
ROBOT INDEX		108	ROBOT EFFICIENCY		106	ROBOT INTERVAL		103

INDEX											
NM\$	1115	GTPI	3051	NVI	197	CM\$	1121	FM\$	1069	GM\$	1083

CONFORMATION				DAUGHTERS 0 • HERDS 0 • 80% REL					
PTAT	1.43	UDC	1.44	FLC	-0.28	BWC	-1.22	LOC	96



097HO42799 **DEFIANT**



KINDS-RANSOM M DELICIOUS VG-85 3RD DAM DEFIANT

KINGS-RANSOM G DEFIANT-ET
GAMEDAY X LEGACY X
FREEBORN
HO840003224437572
DOB: **5/29/21**
aAa: **234165**
DMS: **234,123**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**

PGS A-S-CANNON FRZZLD BIG AL
PGD: PINE-TREE SSI 9839 3412
MGS: PINE-TREE CW LEGACY
MGD: KINGS-RANSOM FRE DOLLARS-ET

S: RMD-DOTTERER SSI GAMEDAY-ET
D: KINGS-RANSOM LEGCY DAISY-ET

CRV EFFICIENCY 17%	
LONGEVITY 553	FEED EFFICIENCY 109

CRV HEALTH 1%		
HOOF HEALTH 101	UDDER HEALTH 105	FERTILITY 101

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	994	FAT +107	+0.24%	PRO +54	+0.08%	LACT +71	+0.06%
SCS	2.64	CFP	161	MUN	-0.1	METHANE	-
FEED SAVED	302	RFI	-172				

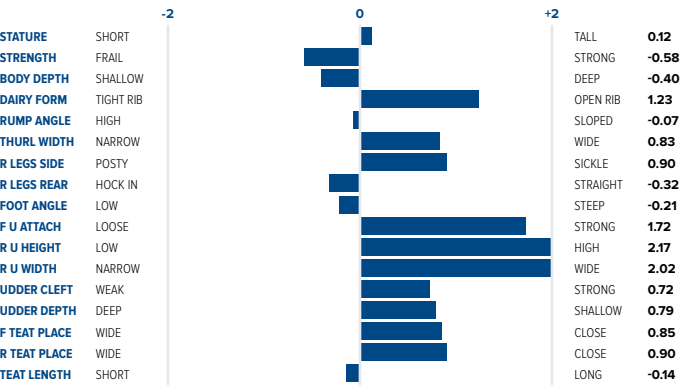
HEALTH TRAITS			
PL	5.9	COW LIVABILITY 1.6	H. LIVABILITY 0.8
MILK FEVER	0.1	DAB	0.3
MAS (U.S.)	2.4	CL MASTITIS 103	S-CL MASTITIS 106
TEMP	101	PERS	-

CALVING TRAITS & FERTILITY			
DPR	-1.2	CCR	0.3
EFC	-0.3	G. LENGTH	-1.1
SCE	2.8	SSB	6.3

MILK ROBOT			
ROBOT INDEX	111	ROBOT EFFICIENCY	108

INDEX			
NM\$	1076	GTPI	2977

CONFORMATION			
PTAT	1.39	UDC	1.65



097HO42789 **BRAVADO**



BRAVADO

PEAK BRAVADO-ET
ALTAWHEELHOUSE X ROME
X ACHIEVER
HO840003229908325
DOB: **8/16/21**
aAa: **324156**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **BB**

PGS PINE-TREE-I PURSUIT
PGD: PEAK MARGE
MGS: DE-SU FRAZZLD ROME 14192
MGD: FARIA-BROS ACH BARCE-LONA-ET

S: PEAK WHEELHOUSE-ET
D: CO-OP BAYLENE 44706-ET

CRV EFFICIENCY 8%	
LONGEVITY 205	FEED EFFICIENCY 104

CRV HEALTH 2%		
HOOF HEALTH 101	UDDER HEALTH 102	FERTILITY 102

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1108	FAT +124	+0.28%	PRO +58	+0.08%	LACT +18	+0.04%
SCS	2.84	CFP	182	MUN	0.3	METHANE	-
FEED SAVED	171	RFI	-168				

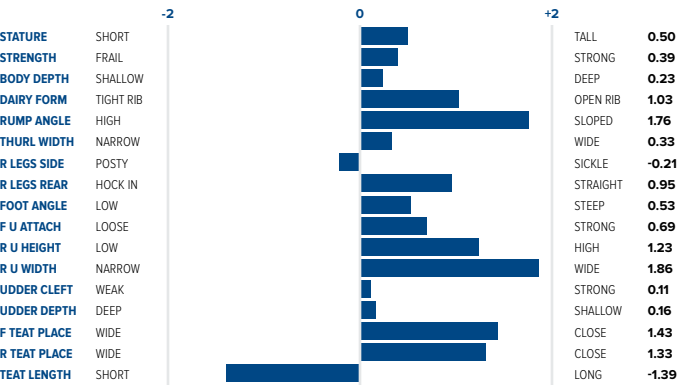
HEALTH TRAITS			
PL	4.6	COW LIVABILITY 1.7	H. LIVABILITY 0.7
MILK FEVER	-0.1	DAB	0.6
MAS (U.S.)	2.0	CL MASTITIS 101	S-CL MASTITIS 102
TEMP	102	PERS	99

CALVING TRAITS & FERTILITY			
DPR	-1.7	CCR	-0.9
EFC	1.6	G. LENGTH	0.6
SCE	2.2	SSB	6.4

MILK ROBOT			
ROBOT INDEX	104	ROBOT EFFICIENCY	104

INDEX			
NM\$	1052	GTPI	2971

CONFORMATION			
PTAT	0.86	UDC	0.82



097HO42587 **PARKER**

FUSTSYN PARKER-ET
PARI X BRASS X DELTA
HO840003128190241
DOB: **11/29/20**
aAa: **231645**
DMS: **135,561**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AB**

SYNERGY BRASS PIPER, DAM OF PARKER



PARKER

S: SIEMERS RENG D PERFECT-ET
D: SYNERGY BRASS PIPER-ET

PGS: S-S-1 PR RENEGADE
PGD: SIEMERS LMDA PARIS 27856

MGS: BLUMENFELD FRAZLD
BRASS ET

MGD: SYNERGY DELTA
PIPSQUEAK-ET

097HO42627 **ORONO**

SIEMERS DENVER PARIS, MATERNAL GRANDDAM OF ORONO



ORONO

S: SIEMERS RENEGADE RO-
ZLINE-ET
D: SIEMERS LMDA PARIS 27856
EX-91

SIEMERS ORONO-ET
ROZLINE X DELTA-LAMBDA X
DENVER
HO840003218556309
DOB: **2/8/21**
aAa: **234165**
DMS: **456,246**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BE**
LACTOGLOBULIN: **AB**

PGS: S-S-1 PR RENEGADE
PGD: SIEMERS FRZLD ROZ
28450-ET

MGS: FARNEAR DELTA-LAMBDA
MGD: SIEMERS DENVER PARIS

CRV EFFICIENCY 11%

LONGEVITY **275**

FEED EFFICIENCY **107**

CRV HEALTH 2%

HOOF HEALTH **100**

UDDER HEALTH **101**

FERTILITY **102**

PRODUCTION

DAUGHTERS **0** • HERDS **0** • **81% REL**

MILK	1248	FAT +83	+0.12%	PRO +58	+0.07%	LACT +57	-0.01%
SCS	2.86	CFP	141	MUN	0.2	METHANE	-
FEED SAVED	55	RFI	-195				

HEALTH TRAITS

PL	4.3	COW LIVABILITY	0.9	H. LIVABILITY	0.5	CALF SURVIVAL	103
MILK FEVER	0.0	DAB	0.5	KETOSIS	1.0	METRITIS	1.3
MAS (U.S.)	1.2	CL MASTITIS	100	S-CL MASTITIS	102	RET PLACENTA	-0.4
TEMP	102	PERS	102				

CALVING TRAITS & FERTILITY

DPR	-0.8	CCR	0.1	HCR	1.3	F. INDEX	-0.2
EFC	2.1	G. LENGTH	0.8	C. INTERVAL	100	BW	103
SCE	2.6	SSB	6.3	DCE	2.2	DSB	4.1

MILK ROBOT

ROBOT INDEX	111	ROBOT EFFICIENCY	110	ROBOT INTERVAL	102
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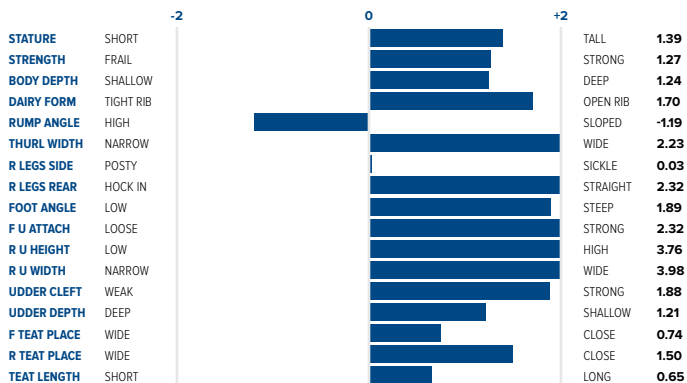
INDEX

NM\$	882	GTPI	3010	NVI	199	CM\$	896	FM\$	781	GM\$	831
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CONFORMATION

DAUGHTERS **0** • HERDS **0** • **79% REL**

PTAT	2.88	UDC	2.49	FLC	1.95	BWC	0.91	LOC	101
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Information from CDCB 04.23 production and HA 04.23 type evaluations. CRV Breeding values 04.23. TPI is a servicemark of Holstein Association USA, Inc.

CRV EFFICIENCY 7%

LONGEVITY **110**

FEED EFFICIENCY **103**

CRV HEALTH 0%

HOOF HEALTH **100**

UDDER HEALTH **99**

FERTILITY **103**

PRODUCTION

DAUGHTERS **0** • HERDS **0** • **80% REL**

MILK	1394	FAT +81	+0.09%	PRO +65	+0.07%	LACT +44	+0.04%
SCS	2.89	CFP	146	MUN	0.1	METHANE	-
FEED SAVED	18	RFI	-84				

HEALTH TRAITS

PL	4.5	COW LIVABILITY	0.1	H. LIVABILITY	0.1	CALF SURVIVAL	-
MILK FEVER	0.0	DAB	0.6	KETOSIS	1.7	METRITIS	0.6
MAS (U.S.)	1.3	CL MASTITIS	98	S-CL MASTITIS	100	RET PLACENTA	0.0
TEMP	100	PERS	102				

CALVING TRAITS & FERTILITY

DPR	-0.2	CCR	1.4	HCR	2.2	F. INDEX	0.3
EFC	0.5	G. LENGTH	0.7	C. INTERVAL	100	BW	101
SCE	2.6	SSB	6.9	DCE	2.4	DSB	5.4

MILK ROBOT

ROBOT INDEX	106	ROBOT EFFICIENCY	106	ROBOT INTERVAL	101
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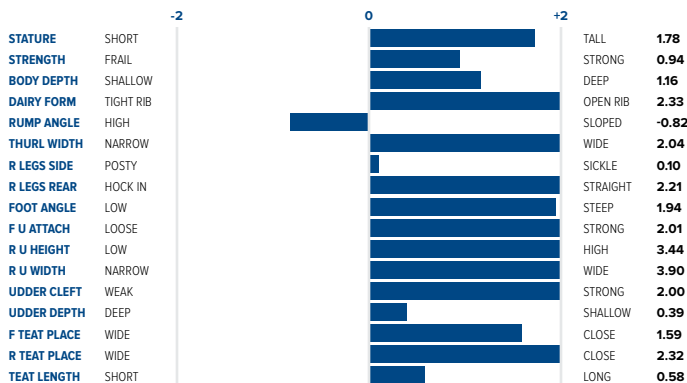
INDEX

NM\$	875	GTPI	2999	NVI	140	CM\$	891	FM\$	764	GM\$	844
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CONFORMATION

DAUGHTERS **0** • HERDS **0** • **79% REL**

PTAT	2.47	UDC	2.10	FLC	1.87	BWC	0.43	LOC	100
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097HO42881 **ANSON**



ANSON



PINE-TREE 7479
JANGL 424-ET
JANGLE X MARIUS X HELIX
HO84000323154542
DOB: **20220126**
aAa: **264135**
DMS: **561**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**

PGS PINE-TREE CW LEGACY

PGD: PEN-COL MODESTY JEWEL-ET

MGS: PROGENESIS MARIUS

MGD: PEN-COL MODESTY JEWEL-ET

S: PEN-COL JANGLE-ET

D: WESTCOAST MARI ANNA 7479-ET

CRV EFFICIENCY 17%

LONGEVITY **180**

FEED EFFICIENCY **111**

CRV HEALTH 6%

HOOF HEALTH **101**

UDDER HEALTH **99**

FERTILITY **106**

PRODUCTION

DAUGHTERS **0** • HERDS **0** • **79% REL**

MILK	781	FAT	+103	+0.25%	PRO	+46	+0.08%	LACT	+26	0.00%
SCS	2.91	CFP	149		MUN	0.1		METHANE		-
FEED SAVED	222	RFI	-4							

HEALTH TRAITS

PL	5.7	COW LIVABILITY	1.4	H. LIVABILITY	0.7	CALF SURVIVAL	-
MILK FEVER	0.2	DAB	0.6	KETOSIS	2.5	METRITIS	2.5
MAS (U.S.)	0.3	CL MASTITIS	98	S-CL MASTITIS	100	RET PLACENTA	0.4
TEMP	101	PERS	106				

CALVING TRAITS & FERTILITY

DPR	1.9	CCR	4.1	HCR	3.4	F. INDEX	2.5
EFC	3.7	G. LENGTH	-1.2	C. INTERVAL	105	BW	97
SCE	1.5	SSB	6.1	DCE	1.6	DSB	4.5

MILK ROBOT

ROBOT INDEX	112	ROBOT EFFICIENCY	114	ROBOT INTERVAL	99
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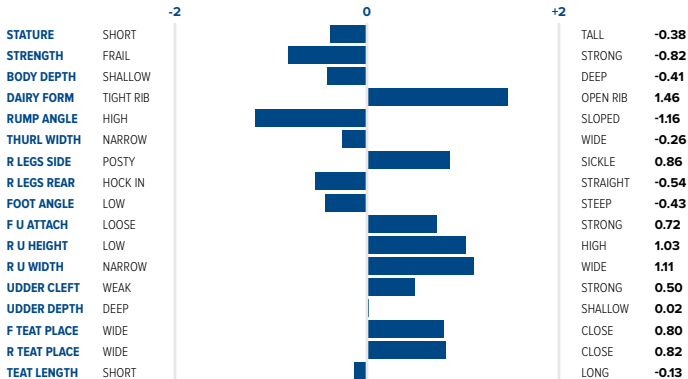
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NM\$	1026	GTPI	2936	NVI	207	CM\$	1040	FM\$	917	GM\$	1045
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CONFORMATION

DAUGHTERS **0** • HERDS **0** • **78% REL**

PTAT	0.69	UDC	0.87	FLC	-0.11	BWC	-1.44	LOC	97
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097HO42761 **VOLSTAGG**



PINE-TREE 9882 PROF 7019-ET VG-86 3RD DAM VOLSTAGG

BLUMENFELD VOLSTAGG
RAYSHEN X ROME X
ACHIEVER
HO840003232439428
DOB: **5/21/21**
aAa: **324156**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AB**

PGS PROGENESIS GUINNESS-ET

PGD: BOMAZ MADDIE

MGS: DE-SU FRAZZLD ROME 14192

MGD: PINE-TREE 7019 ACHI 7824-ET

S: PEAK RAYSHEN-ET

D: BLUMENFELD ROME 6841-ET

CRV EFFICIENCY 9%

LONGEVITY **206**

FEED EFFICIENCY **105**

CRV HEALTH 6%

HOOF HEALTH **102**

UDDER HEALTH **103**

FERTILITY **104**

PRODUCTION

DAUGHTERS **0** • HERDS **0** • **80% REL**

MILK	902	FAT	+116	+0.28%	PRO	+59	+0.11%	LACT	-14	-0.02%
SCS	2.66	CFP	175		MUN	0.4		METHANE		-
FEED SAVED	116	RFI	-31							

HEALTH TRAITS

PL	4.6	COW LIVABILITY	2.4	H. LIVABILITY	0.9	CALF SURVIVAL	-
MILK FEVER	0.0	DAB	0.6	KETOSIS	1.8	METRITIS	2
MAS (U.S.)	3.6	CL MASTITIS	102	S-CL MASTITIS	103	RET PLACENTA	0.5
TEMP	104	PERS	97				

CALVING TRAITS & FERTILITY

DPR	-0.8	CCR	0.7	HCR	-0.7	F. INDEX	-0.5
EFC	1.0	G. LENGTH	-0.6	C. INTERVAL	105	BW	98
SCE	1.5	SSB	5.3	DCE	2.2	DSB	4.6

MILK ROBOT

ROBOT INDEX	100	ROBOT EFFICIENCY	99	ROBOT INTERVAL	101
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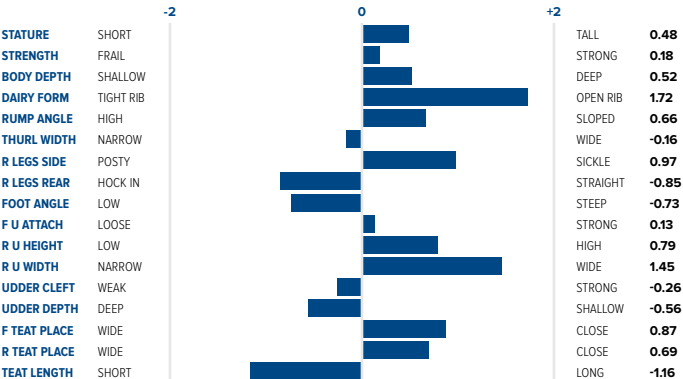
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NM\$	1047	GTPI	2921	NVI	171	CM\$	1072	FM\$	887	GM\$	999
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CONFORMATION

DAUGHTERS **0** • HERDS **0** • **78% REL**

PTAT	0.50	UDC	0.29	FLC	-0.71	BWC	-0.55	LOC	98
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097HO42751 ONSTAGE



LADYS-MANOR GRNT OOHM ANGLE DAM ONSTAGE

LADYS-MANOR ONSTAGE-ET
SUPERCHARGE X GRANITE X MILLINGTON
HO840003238997206
DOB: **6/22/21**
aAa: **342516**
DMS: **234,123**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BE**
LACTOGLOBULIN: **AB**

S: SANDY-VALLEY SUPER-CHARGE-ET
D: LADYS-MANOR GMT OOHM-ET

PGS PINE-TREE CW LEGACY
PGD: SANDY-VALLEY ETERNITY
MGS: PROGENESIS GRANITE
MGD: LADYS-MANOR MILTN OOMPA-ET

CRV EFFICIENCY 19%	
LONGEVITY 215	FEED EFFICIENCY 113

CRV HEALTH 4%		
HOOF HEALTH 101	UDDER HEALTH 102	FERTILITY 104

PRODUCTION			DAUGHTERS 0 • HERDS 0 • 80% REL		
MILK	913	FAT +98 +0.22%	PRO +49 +0.07%	LACT +54 +0.08%	
SCS	2.73	CFP 147	MUN -0.1	METHANE	-
FEED SAVED	259	RFI -123			

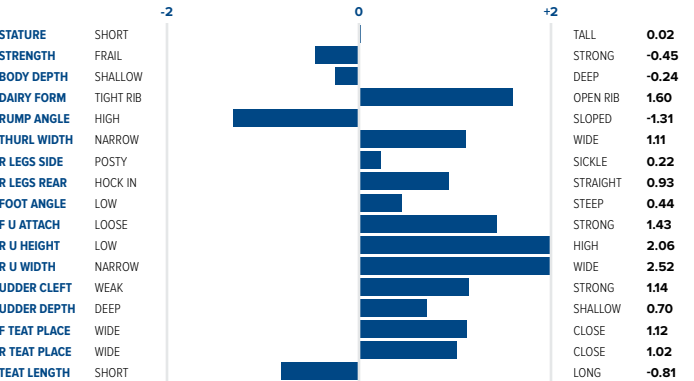
HEALTH TRAITS				
PL	5.0	COW LIVABILITY 1.2	H. LIVABILITY 0.9	CALF SURVIVAL -
MILK FEVER	0.1	DAB 0.5	KETOSIS 1.6	METRITIS 1.7
MAS (U.S.)	1.1	CL MASTITIS 101	S-CL MASTITIS 103	RET PLACENTA 0.1
TEMP	99	PERS 105		

CALVING TRAITS & FERTILITY				
DPR	0.6	CCR 1.6	HCR 2.5	F. INDEX 1.4
EFC	5.2	G. LENGTH 0.2	C. INTERVAL 101	BW 102
SCE	1.8	SSB 5.5	DCE 2.0	DSB 3.3

MILK ROBOT			
ROBOT INDEX	97	ROBOT EFFICIENCY 95	ROBOT INTERVAL 102

INDEX					
NM\$	1026	GTPI 3012	NVI 247	CM\$ 1044	FM\$ 917 GM\$ 1019

CONFORMATION			DAUGHTERS 0 • HERDS 0 • 79% REL		
PTAT	1.44	UDC 1.69	FLC 1.02	BWC -0.90	LOC 97



097HO42798 DYNORAMA



DYNORAMA

KINGS-RANSOM R DYNORAMA-ET
RAYSHEN X LEGACY X HELIX
HO840003224437560
DOB: **5/9/21**
aAa: **432516**
DMS: **561,135**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**

S: PEAK RAYSHEN-ET
D: KINGS-RANSOM L DETER-RENT-ET

PGS PROGENESIS GUINNESS-ET
PGD: BOMAZ MADDIE
MGS: PINE-TREE CW LEGACY
MGD: BOMAZ MADDIE

CRV EFFICIENCY 15%	
LONGEVITY 435	FEED EFFICIENCY 107

CRV HEALTH 4%		
HOOF HEALTH 103	UDDER HEALTH 102	FERTILITY 105

PRODUCTION			DAUGHTERS 0 • HERDS 0 • 80% REL		
MILK	1084	FAT +111 +0.24%	PRO +65 +0.11%	LACT +32 -0.01%	
SCS	2.81	CFP 176	MUN 0.3	METHANE	-
FEED SAVED	25	RFI -12			

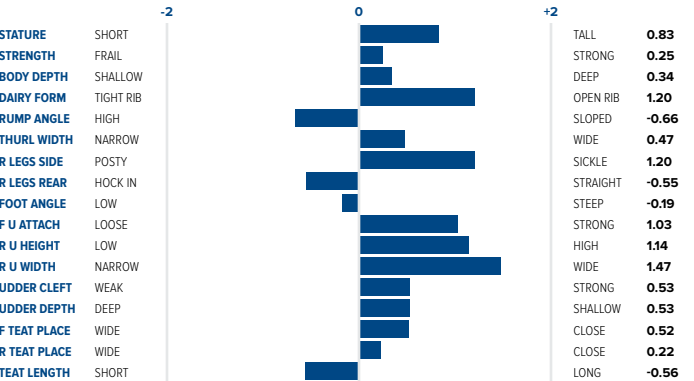
HEALTH TRAITS				
PL	4.6	COW LIVABILITY 0.5	H. LIVABILITY 0.9	CALF SURVIVAL -
MILK FEVER	0.0	DAB 0.4	KETOSIS 2.2	METRITIS 1.4
MAS (U.S.)	1.0	CL MASTITIS 101	S-CL MASTITIS 102	RET PLACENTA 0.2
TEMP	103	PERS 101		

CALVING TRAITS & FERTILITY				
DPR	0.3	CCR 1.6	HCR 1.0	F. INDEX 0.8
EFC	3.2	G. LENGTH -1.6	C. INTERVAL 102	BW 99
SCE	1.8	SSB 5.5	DCE 2.0	DSB 4.4

MILK ROBOT			
ROBOT INDEX	108	ROBOT EFFICIENCY 105	ROBOT INTERVAL 104

INDEX					
NM\$	1020	GTPI 2971	NVI 252	CM\$ 1042	FM\$ 862 GM\$ 999

CONFORMATION			DAUGHTERS 0 • HERDS 0 • 78% REL		
PTAT	0.86	UDC 0.80	FLC -0.50	BWC -0.09	LOC 98



097HO42608 MR WU



LADYS-MANOR GRNT OOHM, DAM OF MR. WU

LADYS-MANOR MR WU-ET
HIGHJUMP X GRANITE X
MILLINGTON
HO840003214324412
DOB: **11/14/20**
aAa: **432615**
DMS: **234,246**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **BB**

PGS PROGENESIS POSITIVE

PGD: COOKIECUTTER DTA
HABITAN

MGS: PROGENESIS GRANITE

MGD: LADYS-MANOR MILTN
OOMPA-ET

S: AOT HIGHJUMP-ET

D: LADYS-MANOR GRNT OOHM-
ET VG 85

CRV EFFICIENCY 14%

LONGEVITY 188

FEED EFFICIENCY 108

CRV HEALTH 1%

HOOF HEALTH 98

UDDER HEALTH 100

FERTILITY 103

PRODUCTION

DAUGHTERS 0 • HERDS 0 • 82% REL

MILK	1687	FAT	+110	+0.15%	PRO	+68	+0.05%	LACT	+42	-0.08%
SCS	2.89	CFP	178		MUN	0.3		METHANE	-	
FEED SAVED	97	RFI	16							

HEALTH TRAITS

PL	3.8	COW LIVABILITY	-0.2	H. LIVABILITY	0.8	CALF SURVIVAL	-
MILK FEVER	0.0	DAB	0.5	KETOSIS	1.4	METRITIS	0.8
MAS (U.S.)	1.2	CL MASTITIS	100	S-CL MASTITIS	100	RET PLACENTA	0.0
TEMP	101	PERS	101				

CALVING TRAITS & FERTILITY

DPR	-1.8	CCR	-1.2	HCR	0.5	F. INDEX	-1.0
EFC	3.0	G. LENGTH	0.5	C. INTERVAL	99	BW	106
SCE	2.4	SSB	6.1	DCE	2.0	DSB	4.6

MILK ROBOT

ROBOT INDEX	104	ROBOT EFFICIENCY	104	ROBOT INTERVAL	100
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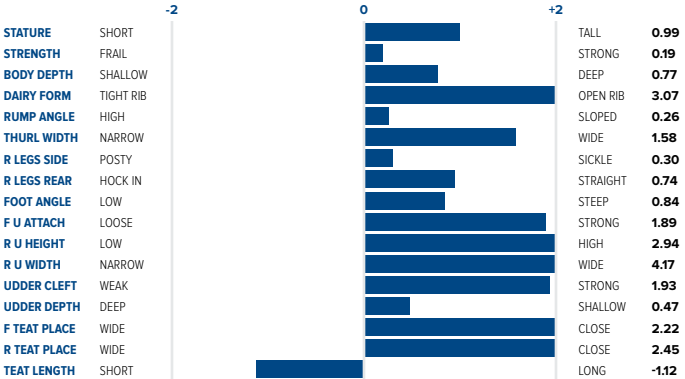
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NM\$	1001	GTPI	3046	NVI	177	CM\$	1012	FM\$	916	GM\$	945
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CONFORMATION

DAUGHTERS 0 • HERDS 0 • 80% REL

PTAT	2.08	UDC	2.19	FLC	0.74	BWC	-0.75	LOC	95
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097HO42585 ZURI



CAR-ROY-AL JENNIE 4713-ET, GRANDDAM OF ZURI

TERRA-CALROY ZURI-ET
ALTAZAZZLE X TAHITI X
YODER
HO840003215568846
DOB: **10/18/20**
aAa: **234165**
DMS: **135,345**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AB**

PGS PROGENESIS MARIUS

PGD: PEAK ZENITH-ET

MGS: DE-SU FRAZZ TAHITI 14104

MGD: CAL-ROY-AL JENNIE 4713

S: PEAK ALTAZAZZLE-ET

D: CAL-ROY-AL TAHITI 10346-ET

CRV EFFICIENCY 18%

LONGEVITY 379

FEED EFFICIENCY 110

CRV HEALTH 3%

HOOF HEALTH 103

UDDER HEALTH 101

FERTILITY 100

PRODUCTION

DAUGHTERS 0 • HERDS 0 • 81% REL

MILK	1227	FAT	+129	+0.28%	PRO	+59	+0.07%	LACT	+65	-0.01%
SCS	2.94	CFP	188		MUN	0.4		METHANE	-	
FEED SAVED	120	RFI	-52							

HEALTH TRAITS

PL	2.9	COW LIVABILITY	-0.2	H. LIVABILITY	0.9	CALF SURVIVAL	103
MILK FEVER	0.0	DAB	0.4	KETOSIS	1.5	METRITIS	2.5
MAS (U.S.)	1.7	CL MASTITIS	101	S-CL MASTITIS	101	RET PLACENTA	0.4
TEMP	103	PERS	102				

CALVING TRAITS & FERTILITY

DPR	-1.7	CCR	-0.2	HCR	0.4	F. INDEX	-0.7
EFC	4.3	G. LENGTH	-2.8	C. INTERVAL	99	BW	100
SCE	1.8	SSB	5.5	DCE	1.7	DSB	4.5

MILK ROBOT

ROBOT INDEX	115	ROBOT EFFICIENCY	114	ROBOT INTERVAL	102
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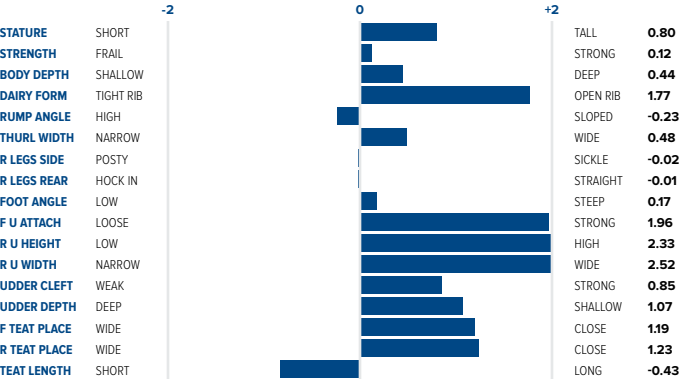
INDEX

NM\$	1021	GTPI	3032	NVI	244	CM\$	1035	FM\$	916	GM\$	991
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CONFORMATION

DAUGHTERS 0 • HERDS 0 • 79% REL

PTAT	1.65	UDC	1.76	FLC	0.20	BWC	-0.44	LOC	95
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097HO42748 **BRAZEN**

NEW



BRAZEN

PINE-TREE BRAZEN-ET
DELUXE X HEROIC X
ACHIEVER
HO840003231545288
DOB: **5/27/21**
aAa: **342156**
DMS: **345,135**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **AE**
LACTOGLOBULIN: **AB**

S: C-HAVEN POSITIVE DE-
LUXE-ET

D: PINE-TREE 7593 HERO
8571-ET

PGS: PROGENESIS POSITIVE

PGD: C-HAVEN SLAMDUNK
DEXY-ET

MGS: PINE-TREE HEROIC

MGD: PINE-TREE ERA ACHIE
7593-ET

CRV EFFICIENCY 11%	
LONGEVITY 346	FEED EFFICIENCY 105

CRV HEALTH 5%		
HOOF HEALTH 102	UDDER HEALTH 103	FERTILITY 106

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	951	FAT +112	+0.26%	PRO +47	+0.06%	LACT +54	+0.07%
SCS	2.56	CFP	159	MUN	-0.2	METHANE	-
FEED SAVED	163	RFI	-80				

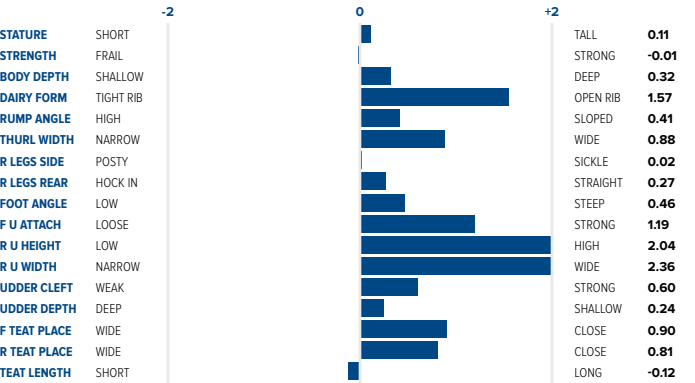
HEALTH TRAITS			
PL	5.1	COW LIVABILITY 2.0	H. LIVABILITY 0.5
MILK FEVER	0.0	DAB	0.2
MAS (U.S.)	4.1	CL MASTITIS 102	S-CL MASTITIS 104
TEMP	102	PERS	101

CALVING TRAITS & FERTILITY			
DPR	-1.9	CCR	-2.1
EFC	2.8	G. LENGTH	-2.0
SCE	2.3	SSB	5.5

MILK ROBOT			
ROBOT INDEX	108	ROBOT EFFICIENCY	107

INDEX			
NM\$	1017	GTPI	2968

CONFORMATION			
PTAT	1.41	UDC	1.45



097HO42753 **PROCEDURE**



PROCEDURE

FLY-HIGHER PROCEDURE-ET
GAMEDAY X LEGACY X
SUPERHERO
HO840003224239390
DOB: **7/1/21**
aAa: **234165**
DMS: **561,135**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AA**
LACTOGLOBULIN: **AA**

S: RMD-DOTTERER SSI
GAMEDAY-ET

D: FLY-HIGHER LEGACY SINDY-ET

PGS: A-S-CANNON FRZZLD BIG AL

PGD: PINE-TREE SSI 9839 3412

MGS: PINE-TREE CW LEGACY

MGD: FLY-HIGHER SUPERHERO
SULLY

CRV EFFICIENCY 9%	
LONGEVITY 190	FEED EFFICIENCY 104

CRV HEALTH 2%		
HOOF HEALTH 102	UDDER HEALTH 99	FERTILITY 104

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 80% REL			
MILK	961	FAT +96	+0.20%	PRO +46	+0.06%	LACT +35	-0.02%
SCS	2.67	CFP	142	MUN	-0.1	METHANE	-
FEED SAVED	86	RFI	-27				

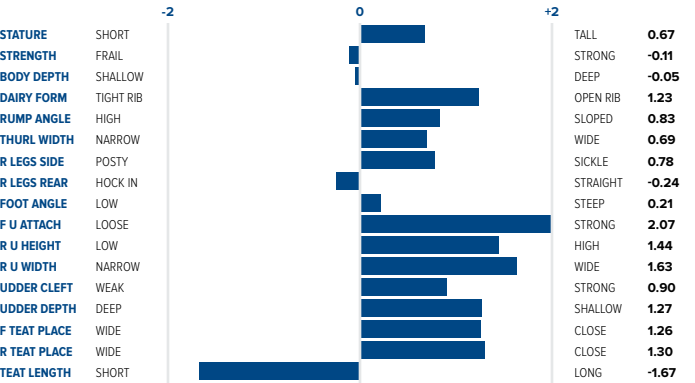
HEALTH TRAITS			
PL	6.8	COW LIVABILITY 3.3	H. LIVABILITY 1.5
MILK FEVER	0.1	DAB	0.5
MAS (U.S.)	1.9	CL MASTITIS 98	S-CL MASTITIS 100
TEMP	100	PERS	103

CALVING TRAITS & FERTILITY			
DPR	0.6	CCR	2.5
EFC	3	G. LENGTH	-1.1
SCE	2.2	SSB	5.8

MILK ROBOT			
ROBOT INDEX	109	ROBOT EFFICIENCY	109

INDEX			
NM\$	1011	GTPI	2960

CONFORMATION			
PTAT	1.40	UDC	1.35



097HO42745 PLAYA



OCD DENVER MINCY, 3RD DAM OF PLAYA

LA-CA-DE-LE PLAYA-ET BETA CASEIN: **A2A2**
AUSTAD X EISAKU X ACHIEVER KAPPA CASEIN: **AA**
HO840003233795226 LACTOGLOBULIN: **AA**
DOB: **5/1/21** aAa: **243165**
DMS: **135,123** **99%** RHA

CRV EFFICIENCY 15%	
LONGEVITY 355	FEED EFFICIENCY 108

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 80% REL	
MILK	1344	SCS	3.04
FAT	+101	PROTEIN	+58
MUN	0.0	METHANE	-
RFI	-181		

HEALTH TRAITS		DAUGHTERS 0 • HERDS 0 • 80% REL	
PL	4.6	COW LIVABILITY	1.0
MILK FEVER	0.0	DAB	0.5
MAS (U.S.)	1.2	CL MASTITIS	98
METRITIS	1.1	RET PLACENTA	-0.2
TEMP	104	PERS	104

CRV HEALTH 2%	
HOOF HEALTH 102	UDDER HEALTH 99
FERTILITY 104	

CALVING TRAITS & FERTILITY		DAUGHTERS 0 • HERDS 0 • 80% REL	
DPR	0.4	CCR	1.7
EFC	-0.9	G. LENGTH	0.4
SCE	1.8	SSB	5.5

MILK ROBOT		DAUGHTERS 0 • HERDS 0 • 80% REL	
ROBOT INDEX	110	ROBOT EFFICIENCY	110
ROBOT INTERVAL	102		

INDEX		DAUGHTERS 0 • HERDS 0 • 80% REL	
NM\$	1018	GTPI	2965
CM\$	1026	FM\$	936

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 80% REL	
PTAT	1.59	UDC	1.54
FLC	0.45	BWC	-0.75

097HO42760 RAY



RAY

LA-CA-DE-LE RAYSHEN 8997-ET BETA CASEIN: **A2A2**
RAYSHEN X LEGACY X KAPPA CASEIN: **BB**
ACHIEVER LACTOGLOBULIN: **AA**
HO840003224228407 HAPLOTYPES: **HH6**
DOB: **3/19/21** aAa: **123645**
DMS: **126,561** **99%** RHA

CRV EFFICIENCY 14%	
LONGEVITY 304	FEED EFFICIENCY 108

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 81% REL	
MILK	1498	SCS	2.78
FAT	+93	PROTEIN	+72
MUN	0.1	METHANE	-
RFI	-125		

HEALTH TRAITS		DAUGHTERS 0 • HERDS 0 • 81% REL	
PL	5.1	COW LIVABILITY	1.9
MILK FEVER	-0.1	DAB	0.4
MAS (U.S.)	1.7	CL MASTITIS	102
METRITIS	1.1	RET PLACENTA	0.1
TEMP	104	PERS	104

CRV HEALTH 3%	
HOOF HEALTH 100	UDDER HEALTH 103
FERTILITY 106	

CALVING TRAITS & FERTILITY		DAUGHTERS 0 • HERDS 0 • 81% REL	
DPR	-0.7	CCR	-0.1
EFC	5.1	G. LENGTH	-0.1
SCE	2.1	SSB	5.6

MILK ROBOT		DAUGHTERS 0 • HERDS 0 • 81% REL	
ROBOT INDEX	107	ROBOT EFFICIENCY	105
ROBOT INTERVAL	103		

INDEX		DAUGHTERS 0 • HERDS 0 • 81% REL	
NM\$	1045	GTPI	2924
CM\$	1065	FM\$	912

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 81% REL	
PTAT	0.62	UDC	0.61
FLC	0.00	BWC	-0.65

097HO42536 CURVEBALL



CURVEBALL

PEAK CURVEBALL-ET BETA CASEIN: **A2A2**
FASTBALL X ALTATOPSHOT X KAPPA CASEIN: **AB**
MR MOGUL DELTA LACTOGLOBULIN: **AB**
HO840003215743635
DOB: **5/25/20** aAa: **243615**
DMS: **345,456** **99%** RHA

CRV EFFICIENCY 13%	
LONGEVITY 302	FEED EFFICIENCY 107

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 82% REL	
MILK	1570	SCS	2.83
FAT	+95	PROTEIN	+59
MUN	-0.1	METHANE	-
RFI	-31		

HEALTH TRAITS		DAUGHTERS 0 • HERDS 0 • 82% REL	
PL	5.4	COW LIVABILITY	1.5
MILK FEVER	-0.1	DAB	0.6
MAS (U.S.)	1.5	CL MASTITIS	99
METRITIS	0.9	RET PLACENTA	-0.5
TEMP	102	PERS	99

CRV HEALTH 4%	
HOOF HEALTH 104	UDDER HEALTH 99
FERTILITY 106	

CALVING TRAITS & FERTILITY		DAUGHTERS 0 • HERDS 0 • 82% REL	
DPR	-1.0	CCR	-0.4
EFC	6.6	G. LENGTH	-1.2
SCE	2.1	SSB	5.0

MILK ROBOT		DAUGHTERS 0 • HERDS 0 • 82% REL	
ROBOT INDEX	103	ROBOT EFFICIENCY	103
ROBOT INTERVAL	101		

INDEX		DAUGHTERS 0 • HERDS 0 • 82% REL	
NM\$	996	GTPI	2888
CM\$	1006	FM\$	935

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 82% REL	
PTAT	0.73	UDC	0.91
FLC	0.56	BWC	-1.05

097HO42747 FRANDRAL



BLUMENFELD IMAX 5941-ET VG-85 GRDAM FRANDRAL

BLUMENFELD FRANDRAL-ET BETA CASEIN: **A2A2**
JANGLE X ESCALATE X IMAX KAPPA CASEIN: **AB**
HO84000323243944 LACTOGLOBULIN: **AB**
DOB: **5/8/21** aAa: **261435**
DMS: **561,126** 99% RHA

CRV EFFICIENCY 14%			
LONGEVITY 206		FEED EFFICIENCY 110	

PRODUCTION			
DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1927	SCS	2.78
FAT	+77	PROTEIN	+59
MUN	0.0	METHANE	-
RFI	-71	FEED SAVED	257

HEALTH TRAITS			
PL	6.6	COW LIVABILITY	1.7
MILK FEVER	0.1	DAB	0.7
MAS (U.S.)	2.1	CL MASTITIS	101
METRITIS	1.2	RET PLACENTA	0.0
TEMP	105	PERS	103

❤️ CRV HEALTH 1%		
HOOF HEALTH 98	UDDER HEALTH 102	FERTILITY 100

CALVING TRAITS & FERTILITY			
DPR	-1.5	CCR	0.2
EFC	2.7	G. LENGTH	-1.5
SCE	1.6	SSB	5.0

MILK ROBOT			
ROBOT INDEX	112	ROBOT EFFICIENCY	112
ROBOT INTERVAL 100			

INDEX			
NM\$	1015	GTPI	2901
CM\$	1020	FM\$	1002
GM\$ 923			

CONFORMATION			
DAUGHTERS 0 • HERDS 0 • 78% REL			
PTAT	1.22	UDC	1.92
FLC	0.16	BWC	-1.23
LOC 97			

097HO42752 GALLIVANT



GALLIVANT

KINGS-RANSOM GALLIVANT-ET BETA CASEIN: **A1A2**
EXPECTANT X PURSUIT X HELIX KAPPA CASEIN: **AB**
HO840003224239380 LACTOGLOBULIN: **AB**
DOB: **6/24/21** aAa: **432615**
DMS: **561,456** 99% RHA

CRV EFFICIENCY 12%			
LONGEVITY 411		FEED EFFICIENCY 105	

PRODUCTION			
DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1715	SCS	2.71
FAT	+87	PROTEIN	+53
MUN	-0.2	METHANE	-
RFI	-144	FEED SAVED	159

HEALTH TRAITS			
PL	6.2	COW LIVABILITY	1.6
MILK FEVER	0.0	DAB	0.7
MAS (U.S.)	2.7	CL MASTITIS	101
METRITIS	2.1	RET PLACENTA	0.0
TEMP	101	PERS	102

♥ CRV HEALTH 3%		
HOOF HEALTH 101	UDDER HEALTH 101	FERTILITY 104

CALVING TRAITS & FERTILITY			
DPR	-0.4	CCR	1.0
EFC	4.2	G. LENGTH	-1.2
SCE	2.1	SSB	6.0

MILK ROBOT			
ROBOT INDEX	109	ROBOT EFFICIENCY	107
ROBOT INTERVAL 103			

INDEX			
NM\$	1007	GTPI	3010
CM\$	1014	FM\$	990
GM\$ 945			

CONFORMATION			
DAUGHTERS 0 • HERDS 0 • 78% REL			
PTAT	2.02	UDC	2.00
FLC	0.93	BWC	-0.09
LOC 101			

097HO42682 ZICO



ZICO

PEAK ZICO-ET BETA CASEIN: **A2A2**
ALTAJUMP KAPPA CASEIN: **BB**
CUTXPURSUITXALTATOPSHOT LACTOGLOBULIN: **AA**
HO840003219939860
DOB: **1/13/21** aAa: **321465**
DMS: **135,345** 99% RHA

CRV EFFICIENCY 15%			
LONGEVITY 338		FEED EFFICIENCY 109	

PRODUCTION			
DAUGHTERS 0 • HERDS 0 • 80% REL			
MILK	2073	SCS	2.76
FAT	+81	PROTEIN	+75
MUN	0.1	METHANE	-
RFI	-58	FEED SAVED	94

HEALTH TRAITS			
PL	5.8	COW LIVABILITY	1.0
MILK FEVER	-0.1	DAB	0.3
MAS (U.S.)	3.5	CL MASTITIS	102
METRITIS	0.9	RET PLACENTA	-0.2
TEMP	105	PERS	106

❤️ CRV HEALTH 3%		
HOOF HEALTH 101	UDDER HEALTH 102	FERTILITY 103

CALVING TRAITS & FERTILITY			
DPR	-1.8	CCR	-0.8
EFC	3.8	G. LENGTH	-2.2
SCE	2.5	SSB	5.8

MILK ROBOT			
ROBOT INDEX	109	ROBOT EFFICIENCY	108
ROBOT INTERVAL 102			

INDEX			
NM\$	1003	GTPI	2957
CM\$	1015	FM\$	935
GM\$ 903			

CONFORMATION			
DAUGHTERS 0 • HERDS 0 • 78% REL			
PTAT	1.49	UDC	1.56
FLC	0.15	BWC	-0.24
LOC 96			

097HO42718 TONE



DAM OF TONE

LADYS-MANOR TUNE-ET BETA CASEIN: **A2A2**
 OUTCOME X ALPHABET X KAPPA CASEIN: **AB**
 TORONTO LACTOGLOBULIN: **BB**
 HO840003238997220
 DOB: **7/13/21** aAa: **351426**
 DMS: **234,345** 99% RHA

CRV EFFICIENCY 11%					
LONGEVITY 213			FEED EFFICIENCY 107		
PRODUCTION			DAUGHTERS 0 • HERDS 0 • 79% REL		
MILK	1322	SCS	2.82	CFP	150
FAT	+90 +0.13%	PROTEIN	+60 +0.06%	LACTOSE	+30 +0.02%
MUN	0.3	METHANE	-	FEED SAVED	205
RFI	-75				
HEALTH TRAITS					
PL	5.4	COW LIVABILITY	3.8	H. LIVABILITY	0.6
MILK FEVER	0.1	DAB	0.7	KETOSIS	1.8
MAS (U.S.)	1.2	CL MASTITIS	100	S-CL MASTITIS	101
METRITIS	1.2	RET PLACENTA	0.4	CALF SURVIVAL	-
TEMP	99	PERS	103		

 CRV HEALTH 3%						
HOOF HEALTH 99		UDDER HEALTH 100		FERTILITY 106		
CALVING TRAITS & FERTILITY						
DPR	1.5	CCR	1.8	HCR	0.8	
F. INDEX					1.7	
EFC	4.0	G. LENGTH	-2.1	C. INTERVAL	103	
BW					99	
SCE	1.9	SSB	5.6	DCE	2.2	
DSB					4.5	
MILK ROBOT						
ROBOT INDEX		100		ROBOT EFFICIENCY	101	
				ROBOT INTERVAL	98	
INDEX						
NM\$	1060		GTPI	3058		
NVI				162		
CM\$	1075		FM\$	959		
GM\$				1059		
CONFORMATION						
			DAUGHTERS 0 • HERDS 0 • 79% REL			
PTAT	1.42	UDC	2.02	FLC	0.69	
BWC				-0.86	LOC	92

097HO42756 EAGLEHEART



EAGLEHEART

AOT EAGLEHEART-ET BETA CASEIN: **A2A2**
 EXPECTANT X RENEGADE X KAPPA CASEIN: **AB**
 FRAZZLED LACTOGLOBULIN: **AA**
 HO840003224239465
 DOB: **9/19/21** aAa: **243615**
 DMS: **456,246** 99% RHA

CRV EFFICIENCY 18%					
LONGEVITY 462			FEED EFFICIENCY 111		
PRODUCTION		DAUGHTERS 0 • HERDS 0 • 80% REL			
MILK	1100	SCS	2.63	CFP	125
FAT	+83 +0.14%	PROTEIN	+42 +0.03%	LACTOSE	+60 -0.02%
MUN	-0.3	METHANE	-	FEED SAVED	210
RFI	-45				
HEALTH TRAITS					
PL	7.0	COW LIVABILITY	1.5	H. LIVABILITY	1.1
MILK FEVER	0.0	DAB	0.9	KETOSIS	2.0
MAS (U.S.)	3.7	CL MASTITIS	103	S-CL MASTITIS	105
METRITIS	1.2	RET PLACENTA	-0.7	CALF SURVIVAL	-
TEMP	99	PERS	103		

 CRV HEALTH 4%																			
HOOF HEALTH 101		UDDER HEALTH 104		FERTILITY 106															
CALVING TRAITS & FERTILITY																			
DPR	0.1	CCR	2.0	HCR	2.2	F. INDEX	0.8												
EFC	3.0	G. LENGTH	-1.3	C. INTERVAL	102	BW	103												
SCE	2.2	SSB	5.5	DCE	2.6	DSB	5.2												
MILK ROBOT																			
ROBOT INDEX		104		ROBOT EFFICIENCY 102		ROBOT INTERVAL 101													
INDEX																			
NM\$		985		GTPI		2943		NVI		254									
CM\$		997		FM\$		931		GM\$		928									
CONFORMATION												DAUGHTERS 0 • HERDS 0 • 79% REL							
PTAT		1.42		UDC		2.35		FLC		0.58		BWC		-1.09		LOC		97	

097HO42510 FUGLEMAN



FUGLEMAN

PEAK FUGLEMAN-ET BETA CASEIN: **A1A2**
 ALTAZAZZLE X POSITIVE X KAPPA CASEIN: **AA**
 MEDLEY LACTOGLOBULIN: **AA**
 HO840003215425396
 DOB: **4/20/20** aAa: **516324**
 99% RHA

 CRV EFFICIENCY 16%					
LONGEVITY 327			FEED EFFICIENCY 108		
PRODUCTION			DAUGHTERS 0 • HERDS 0 • 81% REL		
MILK	1329	SCS	2.86	CFP	175
FAT	+108 +0.19%	PROTEIN	+67 +0.09%	LACTOSE	+68 +0.08%
MUN	-0.1	METHANE	-	FEED SAVED	44
RFI	7				
HEALTH TRAITS					
PL	4.1	COW LIVABILITY	1.6	H. LIVABILITY	0.5
MILK FEVER	0.2	DAB	0.2	KETOSIS	1.7
MAS (U.S.)	1.3	CL MASTITIS	99	S-CL MASTITIS	100
METRITIS	1.6	RET PLACENTA	0.4	CALF SURVIVAL	97
TEMP	103	PERS	103		

📍 CRV HEALTH 1%					
HOOF HEALTH 102		UDDER HEALTH 99		FERTILITY 103	
CALVING TRAITS & FERTILITY					
DPR	-2.3	CCR	-1.7	HCR	-1.6
F. INDEX	-1.9				
EFC	0.5	G. LENGTH	-3.0	C. INTERVAL	102
BW	101				
SCE	2.1	SSB	6.9	DCE	2.2
DSB	6.6				
MILK ROBOT					
ROBOT INDEX		109	ROBOT EFFICIENCY		110
ROBOT INTERVAL		99			
INDEX					
NM\$		969	GTPI	2987	NVI
232					
CM\$		987	FM\$	838	GM\$
885					
CONFORMATION					
DAUGHTERS 0 • HERDS 0 • 79% REL					
PTAT	1.89	UDC	2.02	FLC	0.71
BWC	-0.33	LOC	95		

097HO42437 ESCAPADE



ESCAPADE

PINE-TREE ESCAPADE-ET BETA CASEIN: **A2A2**
 ACURA X SAMARITAN X KAPPA CASEIN: **BB**
 ACHIEVER LACTOGLOBULIN: **AA**
 HO840003213241729
 DOB: **3/1/20** aAa: **234156**
 DMS: **126,561** 99% RHA

CRV EFFICIENCY 18%					
LONGEVITY 360			FEED EFFICIENCY 112		
PRODUCTION			DAUGHTERS 0 • HERDS 0 • 82% REL		
MILK	2245	SCS	2.94	CFP	172
FAT	+101 +0.05%	PROTEIN	+71 0.00%	LACTOSE	+75 -0.04%
MUN	0.4	METHANE	-	FEED SAVED	48
RFI	46				
HEALTH TRAITS					
PL	3.8	COW LIVABILITY	1.9	H. LIVABILITY	0.5
MILK FEVER	0.3	DAB	0.6	KETOSIS	2.1
MAS (U.S.)	0.2	CL MASTITIS	101	S-CL MASTITIS	102
METRITIS	2.0	RET PLACENTA	-0.1	CALF SURVIVAL	-
TEMP	103	PERS	104		

 CRV HEALTH 3%						
HOOF HEALTH 99		UDDER HEALTH 102		FERTILITY 105		
CALVING TRAITS & FERTILITY						
DPR	-1.0	CCR	0.3	HCR	4.1	
F. INDEX	0.1					
EFC	3.4	G. LENGTH	-1.1	C. INTERVAL	104	
BW	101					
SCE	2.0	SSB	5.9	DCE	1.9	
DSB	4.2					
MILK ROBOT						
ROBOT INDEX		111	ROBOT EFFICIENCY		110	
			ROBOT INTERVAL			101
INDEX						
NM\$		982	GTPI		2982	
NVI		200				
CM\$		985	FM\$		963	
GM\$		944				
CONFORMATION						
DAUGHTERS 0 • HERDS 0 • 81% REL						
PTAT	1.35	UDC	0.98	FLC	0.58	
BWC	-0.61	LOC	100			

097HO42624 SAM BAL BEI



WELCOME MIDNIGHT WYN, MGGD OF SAM BAL BEI

WELCOME SAM BAL BEI-ET BETA CASEIN: **A2A2**
 MOONSHINER X EISAKU X KAPPA CASEIN: **AB**
 SPECTRE LACTOGLOBULIN: **AA**
 HO840003214541186
 DOB: **1/28/21** aAa: **315246**
 DMS: **123,234** 99% RHA

CRV EFFICIENCY 13%					
LONGEVITY 326			FEED EFFICIENCY 107		
PRODUCTION		DAUGHTERS 0 • HERDS 0 • 80% REL			
MILK	1823	SCS	2.90	CFP	155
FAT	+95 +0.08%	PROTEIN	+60 +0.01%	LACTOSE	+61 -0.01%
MUN	0.3	METHANE	-	FEED SAVED	268
RFI	-161				
HEALTH TRAITS					
PL	4.1	COW LIVABILITY	-0.2	H. LIVABILITY	1.0
MILK FEVER	-0.2	DAB	0.0	KETOSIS	1.6
MAS (U.S.)	2.0	CL MASTITIS	98	S-CL MASTITIS	101
METRITIS	-0.1	RET PLACENTA	-0.7	CALF SURVIVAL	-
TEMP	101	PERS	105		

 CRV HEALTH 3%																			
HOOF HEALTH 100		UDDER HEALTH 99		FERTILITY 103															
CALVING TRAITS & FERTILITY																			
DPR	-0.7	CCR	0.4	HCR	2.5	F. INDEX	0.2												
EFC	3.9	G. LENGTH	-0.5	C. INTERVAL	101	BW	106												
SCE	2.2	SSB	5.7	DCE	2.1	DSB	3.4												
MILK ROBOT																			
ROBOT INDEX		109		ROBOT EFFICIENCY 109		ROBOT INTERVAL 101													
INDEX																			
NM\$		969		GTPI		2901		NVI		175									
CM\$		974		FM\$		941		GM\$		943									
CONFORMATION												DAUGHTERS 0 • HERDS 0 • 79% REL							
PTAT		1.51		UDC		1.13		FLC		-0.14		BWC		-0.70		LOC		98	

097HO42754 OUT TUCKER



LADYS-MANOR ALPHABET TUBA, DAM OF OUT TUCKER

LADYS-MANOR OUT TUCKER-ET BETA CASEIN: **A1A1**
 OUTCOME X ALPHABET X KAPPA CASEIN: **BE**
 TORONTO LACTOGLOBULIN: **AB**
 HO840003238997213
 DOB: **7/9/21** aAa: **342516**
 DMS: **126,561** 99% RHA

CRV EFFICIENCY 15%					
LONGEVITY 301			FEED EFFICIENCY 109		
PRODUCTION		DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1819	SCS	2.83	CFP	156
FAT	+85 +0.05%	PROTEIN	+71 +0.05%	LACTOSE	+41 -0.04%
MUN	0.2	METHANE	-	FEED SAVED	69
RFI	-19				
HEALTH TRAITS					
PL	4.2	COW LIVABILITY	0.4	H. LIVABILITY	0.1
MILK FEVER	0.1	DAB	0.7	KETOSIS	2.1
MAS (U.S.)	0.3	CL MASTITIS	100	S-CL MASTITIS	103
METRITIS	1.4	RET PLACENTA	0.2	CALF SURVIVAL	-
TEMP	104	PERS	103		

 CRV HEALTH 4%					
HOOF HEALTH 101		UDDER HEALTH 101		FERTILITY 103	
CALVING TRAITS & FERTILITY					
DPR	0.3	CCR	0.7	HCR	0.2
F. INDEX					0.7
EFC	3.6	G. LENGTH	-0.8	C. INTERVAL	102
BW					101
SCE	2.1	SSB	5.6	DCE	2.4
DSB					4.1
MILK ROBOT					
ROBOT INDEX		105	ROBOT EFFICIENCY		104
			ROBOT INTERVAL 101		
INDEX					
NM\$	955	GTPI	3028	NVI	197
CM\$	968	FM\$	873	GM\$	940
CONFORMATION					
DAUGHTERS 0 • HERDS 0 • 78% REL					
PTAT	2.02	UDC	1.81	FLC	1.12
BWC	-0.32	LOC	95		

097HO42797 HIGHSTAKES



COOKECUTTER HOPELYNN, MGD OF HIGHSTAKES

PEAK HIGHSTAKES-ET BETA CASEIN: **A2A2**
 GALAPAGOS X MAXIMUS X KAPPA CASEIN: **AB**
 REASON LACTOGLOBULIN: **AA**
 HO840003238808327
 DOB: **10/24/21** aAa: **243615**
 DMS: **345,456** 99% RHA

CRV EFFICIENCY 14%			
LONGEVITY 172		FEED EFFICIENCY 107	

PRODUCTION			
DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1680	SCS	2.92
FAT	+119	PROTEIN	+78
MUN	0.0	METHANE	-
RFI	97	FEED SAVED	30

HEALTH TRAITS			
PL	2.2	COW LIVABILITY	-3.2
MILK FEVER	-0.1	DAB	0.4
MAS (U.S.)	0.4	CL MASTITIS	100
METRITIS	1.4	RET PLACENTA	-0.1
TEMP	107	PERS	106

❤️ CRV HEALTH 1%		
HOOF HEALTH 100	UDDER HEALTH 100	FERTILITY 100

CALVING TRAITS & FERTILITY			
DPR	-3.0	CCR	-1.9
EFC	3.6	G. LENGTH	-1.8
SCE	1.8	SSB	5.3
HCR	-0.1	F. INDEX	-1.9
C. INTERVAL	96	BW	103
DCE	2.0	DSB	4.2

MILK ROBOT			
ROBOT INDEX	114	ROBOT EFFICIENCY	113
ROBOT INTERVAL 103			

INDEX			
NM\$	977	GTPI	3018
CM\$	993	FM\$	845
NVI	246	GM\$	925

CONFORMATION			
DAUGHTERS 0 • HERDS 0 • 78% REL			
PTAT	1.62	UDC	2.28
FLC	0.06	BWC	-0.84
LOC	93		

097HO42697 HOMELAND



HOMELAND

PEAK HOMELAND-ET BETA CASEIN: **A2A2**
 ALTAWHEELHOUSE X KAPPA CASEIN: **AA**
 ALTAZAZZLE X ALTAEXPLOSION LACTOGLOBULIN: **AA**
 HO840003224928422
 DOB: **4/25/21** aAa: **324156**
 DMS: **123,135** 99% RHA

CRV EFFICIENCY 12%			
LONGEVITY 263		FEED EFFICIENCY 105	

PRODUCTION			
DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1582	SCS	2.91
FAT	+124	PROTEIN	+56
MUN	0.3	METHANE	-
RFI	-79	FEED SAVED	-46

HEALTH TRAITS			
PL	4.1	COW LIVABILITY	1.1
MILK FEVER	0.1	DAB	0.8
MAS (U.S.)	1.0	CL MASTITIS	99
METRITIS	1.6	RET PLACENTA	0.2
TEMP	101	PERS	-

♥ CRV HEALTH 2%		
HOOF HEALTH 101	UDDER HEALTH 99	FERTILITY 104

CALVING TRAITS & FERTILITY			
DPR	-1.3	CCR	0.2
EFC	2.7	G. LENGTH	-1.0
SCE	3.0	SSB	6.9
HCR	2.1	F. INDEX	-0.4
C. INTERVAL	102	BW	104
DCE	2.1	DSB	5.7

MILK ROBOT			
ROBOT INDEX	107	ROBOT EFFICIENCY	107
ROBOT INTERVAL 101			

INDEX			
NM\$	965	GTPI	2992
CM\$	971	FM\$	922
NVI	182	GM\$	907

CONFORMATION			
DAUGHTERS 0 • HERDS 0 • 77% REL			
PTAT	1.56	UDC	1.61
FLC	-0.01	BWC	0.82
LOC	93		

097HO42625 GUAM



GUAM

WELCOME-TEL GUAM-ET BETA CASEIN: **A2A2**
 MOONSHINER X LEGACY X KAPPA CASEIN: **AA**
 LEGENDARY LACTOGLOBULIN: **AA**
 HO840003214541194
 DOB: **2/6/21** aAa: **234156**
 DMS: **123,135** 99% RHA

CRV EFFICIENCY 14%			
LONGEVITY 558		FEED EFFICIENCY 106	

PRODUCTION			
DAUGHTERS 0 • HERDS 0 • 81% REL			
MILK	1132	SCS	2.75
FAT	+86	PROTEIN	+55
MUN	0.1	METHANE	-
RFI	38	FEED SAVED	22

HEALTH TRAITS			
PL	5.5	COW LIVABILITY	0.8
MILK FEVER	0.0	DAB	0.4
MAS (U.S.)	2.0	CL MASTITIS	102
METRITIS	1.7	RET PLACENTA	0.2
TEMP	104	PERS	108

♥ CRV HEALTH 6%		
HOOF HEALTH 101	UDDER HEALTH 104	FERTILITY 105

CALVING TRAITS & FERTILITY			
DPR	0.5	CCR	2.0
EFC	4.8	G. LENGTH	-0.7
SCE	1.9	SSB	5.8
HCR	2.9	F. INDEX	1.3
C. INTERVAL	103	BW	98
DCE	2.1	DSB	3.8

MILK ROBOT			
ROBOT INDEX	107	ROBOT EFFICIENCY	104
ROBOT INTERVAL 104			

INDEX			
NM\$	941	GTPI	2964
CM\$	958	FM\$	835
NVI	249	GM\$	910

CONFORMATION			
DAUGHTERS 0 • HERDS 0 • 79% REL			
PTAT	1.79	UDC	1.99
FLC	-0.41	BWC	-0.40
LOC	97		



097HO42757 STAR 2409



STAR 2409

WINSTAR 2409 BETA CASEIN: **A2A2**
 LIONEL X JEDI X CABRIOLET KAPPA CASEIN: **AA**
 HO840003206709158 LACTOGLOBULIN: **AB**
 DOB: **4/6/19** aAa: **321465**
 DMS: **345,456** **98%** RHA

 CRV EFFICIENCY 21%					
LONGEVITY 427			FEED EFFICIENCY 113		
PRODUCTION		DAUGHTERS 0 • HERDS 0 • 86% REL			
MILK	2855	SCS	2.85	CFP	195
FAT	+113 +0.01%	PROTEIN	+82 -0.02%	LACTOSE	+113 +0.07%
MUN	0.1	METHANE	-	FEED SAVED	258
RFI	-55				
HEALTH TRAITS					
PL	4.5	COW LIVABILITY	-0.3	H. LIVABILITY	1.3
MILK FEVER	-0.1	DAB	0.4	KETOSIS	1.5
MAS (U.S.)	-0.7	CL MASTITIS	100	S-CL MASTITIS	100
METRITIS	0.4	RET PLACENTA	0.0	CALF SURVIVAL	-
TEMP	101	PERS	103		

CRV HEALTH 1%

HOOF HEALTH 98

UDDER HEALTH 100

FERTILITY 103

CALVING TRAITS & FERTILITY

DPR	-2.4	CCR	0.9	HCR	2.6	F. INDEX	-1.1
EFC	2.8	G. LENGTH	-0.4	C. INTERVAL	103	BW	103
SCE	1.8	SSB	5.8	DCE	2.4	DSB	5.6

MILK ROBOT

ROBOT INDEX	108	ROBOT EFFICIENCY	107	ROBOT INTERVAL	102
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INDEX

NM\$	1123	GTPI	3006	NVI	237
CM\$	1123	FM\$	1135	GM\$	1063

CONFORMATION

DAUGHTERS 0 • HERDS 0 • 80% REL

PTAT	1.02	UDC	1.00	FLC	0.02	BWC	-1.34	LOC	96
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097HO42746 ASGARDIAN



CO-OP BLUMEN DAY 4292, 4TH DAM OF ASGARDIAN

BLUMENFELD ASGARDIAN-ET BETA CASEIN: **A1A2**
 JANGLE X ESCALATE X IMAX KAPPA CASEIN: **BB**
 HO840003232439412 LACTOGLOBULIN: **AB**
 DOB: **5/7/21** aAa: **243615**
 DMS: **126,561** **99%** RHA

CRV EFFICIENCY 23%					
LONGEVITY 494			FEED EFFICIENCY 114		
PRODUCTION		DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	2376	SCS	2.79	CFP	141
FAT	+74 -0.06%	PROTEIN	+67 -0.02%	LACTOSE	+120 +0.05%
MUN	0.0	METHANE	-	FEED SAVED	277
RFI	-51				
HEALTH TRAITS					
PL	6.8	COW LIVABILITY	1.7	H. LIVABILITY	0.7
MILK FEVER	0.1	DAB	0.9	KETOSIS	2.4
MAS (U.S.)	2.3	CL MASTITIS	101	S-CL MASTITIS	103
METRITIS	1.6	RET PLACENTA	-0.2	CALF SURVIVAL	-
TEMP	100	PERS	106		

CRV HEALTH 2%

HOOF HEALTH 102

UDDER HEALTH 102

FERTILITY 102

CALVING TRAITS & FERTILITY

DPR	-0.6	CCR	2.2	HCR	2.7	F. INDEX	0.5
EFC	4.1	G. LENGTH	-1.8	C. INTERVAL	97	BW	104
SCE	1.6	SSB	5.1	DCE	2.2	DSB	4.1

MILK ROBOT

ROBOT INDEX	113	ROBOT EFFICIENCY	112	ROBOT INTERVAL	102
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INDEX

NM\$	1053	GTPI	2919	NVI	279
CM\$	1054	FM\$	1066	GM\$	988

CONFORMATION

DAUGHTERS 0 • HERDS 0 • 78% REL

PTAT	0.96	UDC	1.24	FLC	-0.18	BWC	-1.49	LOC	99
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097HO42613 GAOCHAN



GAOCHAN

TERRA-LINDA GAOCHAN-ET BETA CASEIN: **A2A2**
 ACURA X JEDI X ALTAHOTROD KAPPA CASEIN: **AB**
 HO840003208782876 LACTOGLOBULIN: **AB**
 DOB: **12/3/20** aAa: **354126** HAPLOTYPES: **HH5**
 DMS: **456,345** **99%** RHA

CRV EFFICIENCY 13%					
LONGEVITY 263			FEED EFFICIENCY 108		
PRODUCTION		DAUGHTERS 0 • HERDS 0 • 82% REL			
MILK	2948	SCS	3.00	CFP	188
FAT	+93 -0.07%	PROTEIN	+95 +0.01%	LACTOSE	+91 -0.02%
MUN	0.0	METHANE	-	FEED SAVED	153
RFI	-149				
HEALTH TRAITS					
PL	4.8	COW LIVABILITY	0.7	H. LIVABILITY	0.9
MILK FEVER	0.0	DAB	0.5	KETOSIS	1.9
MAS (U.S.)	1.1	CL MASTITIS	100	S-CL MASTITIS	100
METRITIS	1.5	RET PLACENTA	0.1	CALF SURVIVAL	100
TEMP	104	PERS	104		

CRV HEALTH -1%

HOOF HEALTH 99

UDDER HEALTH 100

FERTILITY 105

CALVING TRAITS & FERTILITY

DPR	-1.1	CCR	0.6	HCR	2.2	F. INDEX	0.1
EFC	5.6	G. LENGTH	0.1	C. INTERVAL	100	BW	104
SCE	2.5	SSB	5.8	DCE	2.7	DSB	5.0

MILK ROBOT

ROBOT INDEX	109	ROBOT EFFICIENCY 108	ROBOT INTERVAL	102
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INDEX

NM\$	1091	GTPI	2987	NVI	187
CM\$	1095	FM\$	1061	GM\$	1039

CONFORMATION

DAUGHTERS 0 • HERDS 0 • 80% REL

PTAT	0.54	UDC	0.30	FLC	-0.05	BWC	-0.03	LOC	98
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097HO42611 OVERHOT



OVERHOT

LADYS-MANOR OVERHOT-ET BETA CASEIN: **A2A2**
 HIGHJUMP X BRASS X GRANITE KAPPA CASEIN: **AB**
 HO840003214324422 LACTOGLOBULIN: **AB**
 DOB: **11/27/20** aAa: **432516**
 DMS: **345,234** **99%** RHA

CRV EFFICIENCY 10%	
LONGEVITY 183	FEED EFFICIENCY 105

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 81% REL			
MILK	1609	SCS	2.77	CFP	166
FAT	+105 +0.15%	PROTEIN	+61 +0.04%	LACTOSE	+35 +0.01%
MUN	0.1	METHANE	-	FEED SAVED	19
RFI	26				

HEALTH TRAITS					
PL	3.6	COW LIVABILITY	-1.2	H. LIVABILITY	0.7
MILK FEVER	-0.2	DAB	0.1	KETOSIS	1.2
MAS (U.S.)	2.5	CL MASTITIS	102	S-CL MASTITIS	103
METRITIS	0.6	RET PLACENTA	-0.3	CALF SURVIVAL	-
TEMP	105	PERS	103		

♥ CRV HEALTH 4%		
HOOF HEALTH 98	UDDER HEALTH 103	FERTILITY 104

CALVING TRAITS & FERTILITY							
DPR	-1.0	CCR	-0.1	HCR	0.9	F. INDEX	-0.3
EFC	3.0	G. LENGTH	-0.1	C. INTERVAL	101	BW	104
SCE	2.3	SSB	5.6	DCE	1.9	DSB	4.5

MILK ROBOT					
ROBOT INDEX	106	ROBOT EFFICIENCY	103	ROBOT INTERVAL	104

INDEX					
NM\$	926	GTPI	3000	NVI	153
CM\$	937	FM\$	859	GM\$	890

CONFORMATION				DAUGHTERS 0 • HERDS 0 • 80% REL					
PTAT	2.06	UDC	1.99	FLC	0.55	BWC	-0.29	LOC	95

097HO42629 MR XIN



WESTCOAST MARIUS ANNA 7479, DAM OF MR XIN

PINE-TREE MR XIN-ET BETA CASEIN: **A2A2**
 ALONSO X MARIUS X HELIX KAPPA CASEIN: **AB**
 HO840003213241968 LACTOGLOBULIN: **AB**
 DOB: **2/24/21** aAa: **354162**
 DMS: **345,135** **99%** RHA

CRV EFFICIENCY 7%	
LONGEVITY 23	FEED EFFICIENCY 103

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 80% REL			
MILK	1415	SCS	2.93	CFP	199
FAT	+128 +0.25%	PROTEIN	+71 +0.09%	LACTOSE	+26 -0.07%
MUN	0.3	METHANE	-	FEED SAVED	-123
RFI	14				

HEALTH TRAITS					
PL	2.7	COW LIVABILITY	-0.2	H. LIVABILITY	1.3
MILK FEVER	0.1	DAB	0.4	KETOSIS	1.8
MAS (U.S.)	0.0	CL MASTITIS	99	S-CL MASTITIS	99
METRITIS	2.1	RET PLACENTA	-0.2	CALF SURVIVAL	-
TEMP	103	PERS	102		

♥ CRV HEALTH 3%		
HOOF HEALTH 99	UDDER HEALTH 99	FERTILITY 105

CALVING TRAITS & FERTILITY							
DPR	-2.5	CCR	-2.0	HCR	-1.2	F. INDEX	-1.7
EFC	4.0	G. LENGTH	-2.0	C. INTERVAL	105	BW	102
SCE	2.2	SSB	5.8	DCE	1.8	DSB	4.4

MILK ROBOT					
ROBOT INDEX	109	ROBOT EFFICIENCY	112	ROBOT INTERVAL	96

INDEX					
NM\$	958	GTPI	2964	NVI	171
CM\$	975	FM\$	822	GM\$	882

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 78% REL							
PTAT	1.18	UDC	0.92	FLC	0.25	BWC	0.71	LOC	96

097HO42584 COLLECTOR



COLLECTOR

HEIDIFARM COLLECTOR-ET BETA CASEIN: **A2A2**
 ALTAPLINKO X FRAZZLED X
 PAGEONE KAPPA CASEIN: **AA**
 HOCAN000013572566 LACTOGLOBULIN: **AB**
 DOB: **10/5/20** aAa: **234165**
 DMS: **345,135** **99%** RHA

CRV EFFICIENCY 17%	
LONGEVITY 483	FEED EFFICIENCY 108

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 81% REL			
MILK	1566	SCS	2.75	CFP	140
FAT	+83 +0.08%	PROTEIN	+57 +0.03%	LACTOSE	+82 +0.04%
MUN	-0.3	METHANE	-	FEED SAVED	40
RFI	148				

HEALTH TRAITS					
PL	6.0	COW LIVABILITY	0.9	H. LIVABILITY	0.8
MILK FEVER	0.0	DAB	0.2	KETOSIS	2.0
MAS (U.S.)	1.7	CL MASTITIS	102	S-CL MASTITIS	102
METRITIS	1.0	RET PLACENTA	-0.2	CALF SURVIVAL	-
TEMP	102	PERS	104		

♥ CRV HEALTH 7%		
HOOF HEALTH 104	UDDER HEALTH 102	FERTILITY 107

CALVING TRAITS & FERTILITY							
DPR	-0.1	CCR	1.6	HCR	3.1	F. INDEX	0.9
EFC	5.4	G. LENGTH	-1.3	C. INTERVAL	104	BW	97
SCE	1.6	SSB	5.3	DCE	1.8	DSB	4.0

MILK ROBOT					
ROBOT INDEX	107	ROBOT EFFICIENCY	106	ROBOT INTERVAL	102

INDEX					
NM\$	934	GTPI	2850	NVI	283
CM\$	945	FM\$	879	GM\$	876

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 78% REL							
PTAT	0.54	UDC	0.87	FLC	-0.11	BWC	-1.24	LOC	97

097HO42425 ENGINEER



ENGINEER

PINE-TREE ENGINEER-ET BETA CASEIN: **A2A2**
 PURSUIT X PROPHECY X DELTA KAPPA CASEIN: **AB**
 HO840003150687548 LACTOGLOBULIN: **AB**
 DOB: **11/15/19** aAa: **351426**
 DMS: **561** 99% RHA

CRV EFFICIENCY 9%	
LONGEVITY 242	FEED EFFICIENCY 105

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 82% REL	
MILK	703	SCS	2.84
FAT	+94 +0.23%	PROTEIN	+53 +0.11%
MUN	0.3	METHANE	-
RFI	-90	FEED SAVED	44

HEALTH TRAITS		DAUGHTERS 0 • HERDS 0 • 82% REL	
PL	6.4	COW LIVABILITY	3.5
MILK FEVER	0.0	DAB	0.5
MAS (U.S.)	3.9	CL MASTITIS	100
METRITIS	0.9	RET PLACENTA	-0.1
TEMP	105	PERS	103

CRV HEALTH 0%	
HOOF HEALTH 98	UDDER HEALTH 100
FERTILITY 103	

CALVING TRAITS & FERTILITY		DAUGHTERS 0 • HERDS 0 • 82% REL	
DPR	-0.3	CCR	1.4
EFC	4.8	G. LENGTH	-1.1
SCE	2.2	SSB	6.3

MILK ROBOT		DAUGHTERS 0 • HERDS 0 • 82% REL	
ROBOT INDEX	110	ROBOT EFFICIENCY	108
ROBOT INTERVAL	105		

INDEX		DAUGHTERS 0 • HERDS 0 • 82% REL	
NM\$	990	GTPI	2949
CM\$	1011	FM\$	836

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 82% REL	
PTAT	1.10	UDC	0.87
FLC	1.21	BWC	0.30

097HO42623 THRIFTY



THRIFTY

MAPLEHURST THRIFTY-ET BETA CASEIN: **A2A2**
 TORRO X BILLY X MATTERS KAPPA CASEIN: **AB**
 HO840003221096994 LACTOGLOBULIN: **AA**
 DOB: **1/20/21** aAa: **234165**
 99% RHA

CRV EFFICIENCY 19%	
LONGEVITY 201	FEED EFFICIENCY 113

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 81% REL	
MILK	795	SCS	2.82
FAT	+113 +0.29%	PROTEIN	+47 +0.08%
MUN	0.0	METHANE	-
RFI	-131	FEED SAVED	478

HEALTH TRAITS		DAUGHTERS 0 • HERDS 0 • 81% REL	
PL	4.9	COW LIVABILITY	2.5
MILK FEVER	-0.1	DAB	0.2
MAS (U.S.)	2.0	CL MASTITIS	99
METRITIS	1.3	RET PLACENTA	0.0
TEMP	103	PERS	-

CRV HEALTH 4%	
HOOF HEALTH 98	UDDER HEALTH 99
FERTILITY 104	

CALVING TRAITS & FERTILITY		DAUGHTERS 0 • HERDS 0 • 81% REL	
DPR	-0.3	CCR	0.5
EFC	3.1	G. LENGTH	-2.8
SCE	1.5	SSB	5.4

MILK ROBOT		DAUGHTERS 0 • HERDS 0 • 81% REL	
ROBOT INDEX	100	ROBOT EFFICIENCY	101
ROBOT INTERVAL	99		

INDEX		DAUGHTERS 0 • HERDS 0 • 81% REL	
NM\$	1112	GTPI	2955
CM\$	1129	FM\$	998

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 81% REL	
PTAT	0.51	UDC	1.37
FLC	0.23	BWC	-2.29

097HO42759 ICE



ICE

LA-CA-DE-LE CWY ICE 8778-ET BETA CASEIN: **A2A2**
 CONWAY X ALTATILINE X DUKE KAPPA CASEIN: **AB**
 HO840003224228188 LACTOGLOBULIN: **AA**
 DOB: **12/29/20** aAa: **315246**
 DMS: **561,126** 99% RHA

CRV EFFICIENCY 13%	
LONGEVITY 53	FEED EFFICIENCY 108

PRODUCTION		DAUGHTERS 0 • HERDS 0 • 81% REL	
MILK	674	SCS	2.97
FAT	+126 +0.35%	PROTEIN	+53 +0.11%
MUN	0.3	METHANE	-
RFI	-122	FEED SAVED	147

HEALTH TRAITS		DAUGHTERS 0 • HERDS 0 • 81% REL	
PL	2.3	COW LIVABILITY	-1.0
MILK FEVER	0.1	DAB	0.7
MAS (U.S.)	-0.6	CL MASTITIS	98
METRITIS	1.8	RET PLACENTA	0.3
TEMP	103	PERS	101

CRV HEALTH 2%	
HOOF HEALTH 97	UDDER HEALTH 98
FERTILITY 104	

CALVING TRAITS & FERTILITY		DAUGHTERS 0 • HERDS 0 • 81% REL	
DPR	-1.2	CCR	-0.6
EFC	3.1	G. LENGTH	-1.2
SCE	2.5	SSB	6.6

MILK ROBOT		DAUGHTERS 0 • HERDS 0 • 81% REL	
ROBOT INDEX	115	ROBOT EFFICIENCY	116
ROBOT INTERVAL	100		

INDEX		DAUGHTERS 0 • HERDS 0 • 81% REL	
NM\$	937	GTPI	2947
CM\$	956	FM\$	783

CONFORMATION		DAUGHTERS 0 • HERDS 0 • 81% REL	
PTAT	1.42	UDC	1.49
FLC	0.54	BWC	-0.17

097HO42620 DONKEYKONG



DONKEYKONG

KINGS-RANSOM
DONKEYKONG-ET
DONZINO X LEGACY X HELIX
HO840003224437487
DOB: **12/30/20** aAa: **561342**
DMS: **561,135** 99% RHA

BETA CASEIN: **A2A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AB**

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 CRV HEALTH 4%					
HOOF HEALTH 99		UDDER HEALTH 104		FERTILITY 104	
CALVING TRAITS & FERTILITY					
DPR	0.5	CCR	0.9	HCR	1.6
EFC	2.6	G. LENGTH	-1.8	C. INTERVAL	103
SCE	2.0	SSB	5.4	DCE	2.2
				DSB	4.9
MILK ROBOT					
ROBOT INDEX	104	ROBOT EFFICIENCY	103	ROBOT INTERVAL	100
INDEX					
NM\$	792	GTPI	2777	NVI	158
CM\$	803	FM\$	746	GM\$	747
CONFORMATION					
DAUGHTERS 0 • HERDS 0 • 78% REL					
PTAT	1.26	UDC	1.52	FLC	0.17
				BWC	-0.47
				LOC	98

097HO42600 HOHHOT



BOMAZ BOB 6207-ET, MGGD OF HOHHOT

BOMAZ HOHHOT-ET
FASTBALL X YODA X DELTA
HO840003218350952
DOB: **6/29/20** aAa: **432561**
99% RHA

BETA CASEIN: **A1A1**
KAPPA CASEIN: **BE**
LACTOGLOBULIN: **AA**

CRV EFFICIENCY 11%						
LONGEVITY 399			FEED EFFICIENCY 105			
PRODUCTION			DAUGHTERS 0 • HERDS 0 • 81% REL			
MILK	1093		SCS	2.69	CFP	139
FAT	+97	+0.19%	PROTEIN +42	+0.03%	LACTOSE +50	+0.11%
MUN	0.1		METHANE	-	FEED SAVED	264
RFI	-169					
HEALTH TRAITS						
PL	5.2	COW LIVABILITY	1.9	H. LIVABILITY	1.2	
MILK FEVER	-0.2	DAB	0.7	KETOSIS	1.4	
MAS (U.S.)	1.9	CL MASTITIS	102	S-CL MASTITIS	104	
METRITIS	1.1	RET PLACENTA	0.1	CALF SURVIVAL	-	
TEMP	103	PERS	102			

CRV HEALTH 5%

HOOF HEALTH 102

UDDER HEALTH 103

FERTILITY 104

CALVING TRAITS & FERTILITY

DPR	-0.7	CCR	0.7	HCR	1.0	F. INDEX	0.0
EFC	3.2	G. LENGTH	-0.6	C. INTERVAL	102	BW	101
SCE	2.2	SSB	5.5	DCE	2.1	DSB	3.8

MILK ROBOT

ROBOT INDEX	103	ROBOT EFFICIENCY 104	ROBOT INTERVAL	98
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INDEX

NM\$	967	GTPI	2834	NVI	190
CM\$	978	FM\$	914	GM\$	914

CONFORMATION

DAUGHTERS 0 • HERDS 0 • 79% REL

PTAT	0.64	UDC	1.03	FLC	-0.05	BWC	-0.63	LOC	98
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097HO42749 BASTION-P



PEAK SUPERB, 3RD DAM OF BASTION P

TTM TV BASTION-P-ET
EXTRA X EISAKU X ACHIEVER
HO840003237494603
DOB: **6/10/21** aAa: **315246**
99% RHA

BETA CASEIN: **A1A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AB**
HAPLOTYPES: **HHP**

 CRV EFFICIENCY 12%					
LONGEVITY 264			FEED EFFICIENCY 107		
PRODUCTION			DAUGHTERS 0 • HERDS 0 • 80% REL		
MILK	1164	SCS	2.91	CFP	143
FAT	+92 +0.16%	PROTEIN	+51 +0.05%	LACTOSE	+48 +0.01%
MUN	0.2	METHANE	-	FEED SAVED	-26
RFI	-71				
HEALTH TRAITS					
PL	4.5	COW LIVABILITY	1.7	H. LIVABILITY	0.8
MILK FEVER	0.1	DAB	0.2	KETOSIS	2.1
MAS (U.S.)	0.3	CL MASTITIS	97	S-CL MASTITIS	100
METRITIS	3.7	RET PLACENTA	0.7	CALF SURVIVAL	-
TEMP	101	PERS	106		

 CRV HEALTH 0%					
HOOF HEALTH 102		UDDER HEALTH 98		FERTILITY 103	
CALVING TRAITS & FERTILITY					
DPR	-0.4	CCR	0.3	HCR	1.2
EFC	3.1	G. LENGTH	0.9	C. INTERVAL	101
SCE	2.2	SSB	6.3	DCE	1.7
				DSB	4.5
MILK ROBOT					
ROBOT INDEX	104	ROBOT EFFICIENCY	105	ROBOT INTERVAL	100
INDEX					
NM\$	855	GTPI	2898	NVI	175
CM\$	866	FM\$	777	GM\$	800
CONFORMATION					
DAUGHTERS 0 • HERDS 0 • 78% REL					
PTAT	2.09	UDC	0.72	FLC	1.64
				BWC	0.63
				LOC	102

POLLED



097HO42696 PALOMINE



AURORA BOMBERO, MGGD OF PALOMINE

PEAK PALOMINE-ET
ALTAHAILED X ALTABUNDLE
X JEDI
HO840003218932219
DOB: **4/24/21** aAa: **246315**
DMS: **345,436** 99% RHA

BETA CASEIN: **A1A1**
KAPPA CASEIN: **AE**
LACTOGLOBULIN: **AB**

CRV EFFICIENCY 10%			
LONGEVITY 307		FEED EFFICIENCY 104	

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 80% REL			
MILK	1961	SCS	2.89	CFP	172		
FAT	+101	+0.09%	PROTEIN +71	+0.03%	LACTOSE +89	+0.06%	
MUN	-0.1	METHANE	-	FEED SAVED	-1		
RFI	-52						

HEALTH TRAITS							
PL	2.8	COW LIVABILITY	-0.7	H. LIVABILITY	1.1		
MILK FEVER	-0.1	DAB	0.5	KETOSIS	2.1		
MAS (U.S.)	1.7	CL MASTITIS	100	S-CL MASTITIS	103		
METRITIS	1.9	RET PLACENTA	0.2	CALF SURVIVAL	100		
TEMP	104	PERS	102				

♥ CRV HEALTH 1%		
HOOF HEALTH 96	UDDER HEALTH 101	FERTILITY 102

CALVING TRAITS & FERTILITY							
DPR	-2.2	CCR	-1.1	HCR	1.1	F. INDEX	-1.2
EFC	3.0	G. LENGTH	-3.3	C. INTERVAL	100	BW	100
SCE	1.9	SSB	6.0	DCE	1.7	DSB	4.1

MILK ROBOT					
ROBOT INDEX	109	ROBOT EFFICIENCY	107	ROBOT INTERVAL	103

INDEX					
NM\$	907	GTPI	2932	NVI	193
CM\$	916	FM\$	846	GM\$	850

CONFORMATION								DAUGHTERS 0 • HERDS 0 • 77% REL			
PTAT	1.57	UDC	1.48	FLC	0.08	BWC	0.34	LOC	94		

097HO42683 SORTUDO



SORTUDO

PEAK SORTUDO-ET
HELIX X ALTAMILESTONE X
HOTLINE
HO840003224956216
DOB: **2/28/21** aAa: **432156**
DMS: **345,135** 99% RHA

BETA CASEIN: **A2A2**
KAPPA CASEIN: **AA**
LACTOGLOBULIN: **BB**

CRV EFFICIENCY 17%			
LONGEVITY 128		FEED EFFICIENCY 110	

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 81% REL			
MILK	2312	SCS	3.04	CFP	212		
FAT	+128	+0.13%	PROTEIN +84	+0.04%	LACTOSE +103	-0.01%	
MUN	0.2	METHANE	-	FEED SAVED	103		
RFI	-22						

HEALTH TRAITS							
PL	0.0	COW LIVABILITY	-6.2	H. LIVABILITY	1.5		
MILK FEVER	0.1	DAB	0.5	KETOSIS	1.1		
MAS (U.S.)	-2.6	CL MASTITIS	99	S-CL MASTITIS	100		
METRITIS	1.7	RET PLACENTA	0.2	CALF SURVIVAL	102		
TEMP	100	PERS	101				

♥ CRV HEALTH -1%		
HOOF HEALTH 96	UDDER HEALTH 99	FERTILITY 98

CALVING TRAITS & FERTILITY							
DPR	-3.7	CCR	-3.4	HCR	-1.4	F. INDEX	-2.9
EFC	1.7	G. LENGTH	-1.6	C. INTERVAL	95	BW	104
SCE	2.5	SSB	6.7	DCE	2.2	DSB	5.6

MILK ROBOT		
ROBOT INDEX	104	ROBOT EFFICIENCY 105
		ROBOT INTERVAL 100

INDEX					
NM\$	897	GTPI	2939	NVI	209
CM\$	904	FM\$	830	GM\$	868

CONFORMATION								DAUGHTERS 0 • HERDS 0 • 80% REL			
PTAT	2.15	UDC	1.54	FLC	-0.18	BWC	-0.54	LOC	95		

097HO42690 TIDES-OUT



TIDES-OUT

LADYS-MANOR TIDES-OUT-ET
OUTCOME X CASCADA X
TORONTO
HO840003214324443
DOB: **3/12/21** aAa: **324156**
DMS: **234,246** 99% RHA

BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AB**

CRV EFFICIENCY 19%			
LONGEVITY 363		FEED EFFICIENCY 113	

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 80% REL			
MILK	1614	SCS	2.87	CFP	156		
FAT	+83	+0.07%	PROTEIN +73	+0.08%	LACTOSE +55	-0.11%	
MUN	0.0	METHANE	-	FEED SAVED	-49		
RFI	86						

HEALTH TRAITS							
PL	3.0	COW LIVABILITY	-0.7	H. LIVABILITY	0.5		
MILK FEVER	0.1	DAB	0.5	KETOSIS	1.5		
MAS (U.S.)	1.2	CL MASTITIS	103	S-CL MASTITIS	104		
METRITIS	1.2	RET PLACENTA	0.2	CALF SURVIVAL	-		
TEMP	103	PERS	104				

♥ CRV HEALTH 2%		
HOOF HEALTH 99	UDDER HEALTH 104	FERTILITY 103

CALVING TRAITS & FERTILITY							
DPR	-0.2	CCR	0.6	HCR	-0.4	F. INDEX	0.1
EFC	1.8	G. LENGTH	0.0	C. INTERVAL	101	BW	104
SCE	2.6	SSB	6.8	DCE	2.8	DSB	5.0

MILK ROBOT			
ROBOT INDEX	105	ROBOT EFFICIENCY 103	ROBOT INTERVAL 102

INDEX					
NM\$	854	GTPI	3013	NVI	248
CM\$	870	FM\$	735	GM\$	845

CONFORMATION								DAUGHTERS 0 • HERDS 0 • 79% REL			
PTAT	2.14	UDC	2.44	FLC	1.50	BWC	-0.24	LOC	96		

097HO42579 GRANDMASTER



GRANDMASTER

PROGENESIS GRANDMASTER-ET BETA CASEIN: **A1A2**
 ALTAZAZZLE X TAHITI X KAPPA CASEIN: **BB**
 RUBICON LACTOGLOBULIN: **AA**
 HOCAN000013807680
 DOB: **7/4/20** aAa: **234156**
 DMS: **135,123** **99%** RHA

CRV EFFICIENCY 12%					
LONGEVITY 291			FEED EFFICIENCY 105		

PRODUCTION DAUGHTERS 0 • HERDS 0 • 81% REL					
MILK	934	SCS	2.87	CFP	169
FAT	+114	+0.27%	PROTEIN +55	+0.09%	LACTOSE +24 +0.03%
MUN	-0.1	METHANE	-	FEED SAVED	195
RFI	2				

HEALTH TRAITS					
PL	4.6	COW LIVABILITY	2.6	H. LIVABILITY	0.9
MILK FEVER	0.1	DAB	0.2	KETOSIS	1.8
MAS (U.S.)	2.3	CL MASTITIS	100	S-CL MASTITIS	102
METRITIS	2.1	RET PLACENTA	-0.1	CALF SURVIVAL	103
TEMP	102	PERS	102		

CRV HEALTH 6%					
HOOF HEALTH 100		UDDER HEALTH 101		FERTILITY 106	

CALVING TRAITS & FERTILITY					
DPR	0.2	CCR	1.5	HCR	1.8
F. INDEX	0.7	EFC	2.5	G. LENGTH	-3.2
C. INTERVAL	105	BW	97	SCE	1.3
SSB	5.5	DCE	1.3	DSB	4.6

MILK ROBOT			
ROBOT INDEX	108	ROBOT EFFICIENCY	109
ROBOT INTERVAL	98		

INDEX			
NM\$	1070	GTPI	2996
NVI	206	CM\$	1088
FM\$	940	GM\$	1059

CONFORMATION DAUGHTERS 0 • HERDS 0 • 79% REL					
PTAT	0.75	UDC	1.54	FLC	-0.35
BWC	-1.30	LOC	95		

097HO42464 INTRICATE



INTRICATE

PROGENESIS INTRICATE-ET BETA CASEIN: **A2A2**
 PURSUIT X ACHIEVER X DELTA KAPPA CASEIN: **AB**
 HOCAN000013567606 LACTOGLOBULIN: **BB**
 DOB: **11/12/19** aAa: **342156**
99% RHA

CRV EFFICIENCY 11%					
LONGEVITY 121			FEED EFFICIENCY 107		

PRODUCTION DAUGHTERS 0 • HERDS 0 • 81% REL					
MILK	913	SCS	2.81	CFP	141
FAT	+91	+0.19%	PROTEIN +50	+0.07%	LACTOSE +41 +0.03%
MUN	0.3	METHANE	-	FEED SAVED	109
RFI	-126				

HEALTH TRAITS					
PL	5.2	COW LIVABILITY	1.5	H. LIVABILITY	0.6
MILK FEVER	0.0	DAB	0.8	KETOSIS	1.5
MAS (U.S.)	2.1	CL MASTITIS	101	S-CL MASTITIS	101
METRITIS	1.5	RET PLACENTA	0.1	CALF SURVIVAL	102
TEMP	103	PERS	100		

CRV HEALTH 3%					
HOOF HEALTH 102		UDDER HEALTH 101		FERTILITY 102	

CALVING TRAITS & FERTILITY					
DPR	-0.4	CCR	1.1	HCR	2.7
F. INDEX	0.4	EFC	2.5	G. LENGTH	-2.7
C. INTERVAL	102	BW	98	SCE	1.9
SSB	5.6	DCE	1.1	DSB	3.2

MILK ROBOT			
ROBOT INDEX	113	ROBOT EFFICIENCY	113
ROBOT INTERVAL	101		

INDEX			
NM\$	945	GTPI	2945
NVI	180	CM\$	961
FM\$	833	GM\$	896

CONFORMATION DAUGHTERS 0 • HERDS 0 • 80% REL					
PTAT	1.79	UDC	1.62	FLC	0.65
BWC	0.11	LOC	97		

097HO42537 FACTOTUM



FACTOTUM

PEAK FACTOTUM-ET BETA CASEIN: **A1A2**
 ALTAZAZZLE X POSITIVE X KAPPA CASEIN: **BB**
 MEDLEY LACTOGLOBULIN: **AB**
 H0840003215425495
 DOB: **5/21/20** aAa: **426351**
99% RHA

CRV EFFICIENCY 8%					
LONGEVITY 336			FEED EFFICIENCY 102		

PRODUCTION DAUGHTERS 0 • HERDS 0 • 81% REL					
MILK	1016	SCS	2.81	CFP	146
FAT	+94	+0.19%	PROTEIN +52	+0.07%	LACTOSE +40 -0.01%
MUN	0.0	METHANE	-	FEED SAVED	19
RFI	28				

HEALTH TRAITS					
PL	4.4	COW LIVABILITY	0.9	H. LIVABILITY	0.6
MILK FEVER	0.1	DAB	0.3	KETOSIS	1.5
MAS (U.S.)	1.7	CL MASTITIS	101	S-CL MASTITIS	102
METRITIS	2.3	RET PLACENTA	0.4	CALF SURVIVAL	96
TEMP	102	PERS	105		

CRV HEALTH 4%					
HOOF HEALTH 101		UDDER HEALTH 102		FERTILITY 105	

CALVING TRAITS & FERTILITY					
DPR	0.2	CCR	0.9	HCR	0.6
F. INDEX	0.4	EFC	1.2	G. LENGTH	-2.9
C. INTERVAL	104	BW	98	SCE	1.4
SSB	5.7	DCE	1.0	DSB	4.1

MILK ROBOT			
ROBOT INDEX	108	ROBOT EFFICIENCY	107
ROBOT INTERVAL	102		

INDEX			
NM\$	920	GTPI	2967
NVI	190	CM\$	936
FM\$	813	GM\$	898

CONFORMATION DAUGHTERS 0 • HERDS 0 • 79% REL					
PTAT	1.41	UDC	2.57	FLC	0.35
BWC	-0.30	LOC	98		

097HO42791 NIPPY-SL-P*RC

NEW SLICK



NIPPY-SL-P*RC

SLICK-GATOR NIPPY-SL-P-ET BETA CASEIN: **A1A2**
BOEING-RED X TAHITI X KAPPA CASEIN: **BE**
EVEREST LACTOGLOBULIN: **AA**
HO840003243114804
DOB: **10/28/21** aAa: **516342**
DMS: **561,456** 90% RHA

CRV EFFICIENCY 7%			
LONGEVITY 206		FEED EFFICIENCY 103	

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 79% REL			
MILK	1022	SCS	2.82	CFP	109		
FAT	+65	+0.09%	PROTEIN +44	+0.04%	LACTOSE +26	+0.05%	
MUN	-1.3	METHANE	-	FEED SAVED	-88		
RFI	19						

HEALTH TRAITS				DAUGHTERS 0 • HERDS 0 • 77% REL			
PL	2.9	COW LIVABILITY	0.4	H. LIVABILITY	0.7		
MILK FEVER	0.1	DAB	-0.1	KETOSIS	1.0		
MAS (U.S.)	2.4	CL MASTITIS	103	S-CL MASTITIS	102		
METRITIS	1.0	RET PLACENTA	-0.5	CALF SURVIVAL	-		
TEMP	104	PERS	-				

♥ CRV HEALTH 2%		
HOOF HEALTH 100	UDDER HEALTH 103	FERTILITY 102

CALVING TRAITS & FERTILITY							
DPR	-0.6	CCR	0.0	HCR	-0.2	F. INDEX	-0.2
EFC	2.8	G. LENGTH	-0.5	C. INTERVAL	103	BW	104
SCE	2.0	SSB	6.3	DCE	2.0	DSB	5.2

MILK ROBOT			
ROBOT INDEX	101	ROBOT EFFICIENCY 102	ROBOT INTERVAL 97

INDEX					
NM\$	596	GTPI	2552	NVI	109
CM\$	607	FM\$	528	GM\$	550

CONFORMATION				DAUGHTERS 0 • HERDS 0 • 77% REL					
PTAT	0.44	UDC	0.22	FLC	-0.36	BWC	0.46	LOC	97

097HO42603 HEERSCHE-SL

NEW SLICK



HEERSCHE-SL

ICEBLUE DR HEERSCHE-SI BETA CASEIN: **A1A1**
LONE RANGER X JEDI X KAPPA CASEIN: **BE**
JOSUPER LACTOGLOBULIN: **AB**
HO840003204195305
DOB: **9/10/20** aAa: **435261**
93% RHA

CRV EFFICIENCY 9%			
LONGEVITY 100		FEED EFFICIENCY 106	

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 81% REL			
MILK	614	SCS	3.00	CFP	88		
FAT	+54	+0.11%	PROTEIN +34	+0.05%	LACTOSE +30	+0.04%	
MUN	-0.2	METHANE	-	FEED SAVED	114		
RFI	-66						

HEALTH TRAITS				DAUGHTERS 0 • HERDS 0 • 78% REL			
PL	2.0	COW LIVABILITY	-0.1	H. LIVABILITY	1.1		
MILK FEVER	-0.1	DAB	0.2	KETOSIS	0.5		
MAS (U.S.)	-1.0	CL MASTITIS	97	S-CL MASTITIS	100		
METRITIS	-0.3	RET PLACENTA	-0.2	CALF SURVIVAL	-		
TEMP	99	PERS	106				

♥ CRV HEALTH -1%		
HOOF HEALTH 97	UDDER HEALTH 98	FERTILITY 100

CALVING TRAITS & FERTILITY							
DPR	-0.3	CCR	0.8	HCR	-0.2	F. INDEX	0.1
EFC	2.4	G. LENGTH	-2.4	C. INTERVAL	98	BW	99
SCE	2.0	SSB	5.9	DCE	2.1	DSB	5.1

MILK ROBOT					
ROBOT INDEX	105	ROBOT EFFICIENCY	107	ROBOT INTERVAL	99

INDEX					
NM\$	502	GTPI	2353	NVI	72
CM\$	511	FM\$	429	GM\$	488

CONFORMATION				DAUGHTERS 0 • HERDS 0 • 78% REL					
PTAT	-0.35	UDC	-0.24	FLC	-0.81	BWC	-0.32	LOC	94

097HO42790 POLAR-SL-PP-RED

NEW SLICK



POLAR-SL PP RED

JA-BOB POLAR-SL-PP-RED-ET BETA CASEIN: **A1A2**
BOEING-RED X SINBA-PLN-RED KAPPA CASEIN: **BE**
X KAD LACTOGLOBULIN: **AA**
HO840003221033618
DOB: **7/23/21** aAa: **456312**
DMS: **456,246** 95% RHA

CRV EFFICIENCY 0%			
LONGEVITY -77		FEED EFFICIENCY 103	

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 78% REL			
MILK	456	SCS	2.93	CFP	66		
FAT	+43	+0.09%	PROTEIN +23	+0.03%	LACTOSE +11	+0.12%	
MUN	0.1	METHANE	-	FEED SAVED	33		
RFI	-24						

HEALTH TRAITS				DAUGHTERS 0 • HERDS 0 • 78% REL			
PL	0.9	COW LIVABILITY	-0.6	H. LIVABILITY	0.7		
MILK FEVER	-0.1	DAB	-0.1	KETOSIS	0.7		
MAS (U.S.)	-0.7	CL MASTITIS	100	S-CL MASTITIS	100		
METRITIS	-0.3	RET PLACENTA	-0.5	CALF SURVIVAL	-		
TEMP	100	PERS	-				

♥ CRV HEALTH 1%		
HOOF HEALTH 98	UDDER HEALTH 100	FERTILITY 100

CALVING TRAITS & FERTILITY							
DPR	-1.7	CCR	-2.1	HCR	-0.1	F. INDEX	-1.1
EFC	3.5	G. LENGTH	-0.7	C. INTERVAL	100	BW	104
SCE	2.1	SSB	6.2	DCE	2.0	DSB	4.7

MILK ROBOT					
ROBOT INDEX	101	ROBOT EFFICIENCY	103	ROBOT INTERVAL	97

INDEX					
NM\$	336	GTPI	2273	NVI	7
CM\$	343	FM\$	290	GM\$	289

CONFORMATION				DAUGHTERS 0 • HERDS 0 • 78% REL					
PTAT	0.31	UDC	0.34	FLC	0.15	BWC	-0.06	LOC	94

097HO42234 MORANT



PEAK JOLIE-ET, DAM

PROVEN **FEED EXCEL**
Breeding for Feed Efficiency

PEAK MORANT-ET
ALTAMONTOYA X MODESTY
X JABIR
HO840003149335089
DOB: 6/9/18
aAa: 243156
99% RHA
BETA CASEIN: A2A2
KAPPA CASEIN: AB
LACTOGLOBULIN: AB
HAPLOTYPES: HH5

PGS PEAK ALTAMORENO

PGD: LISMORE MISTY

S: PEAK ALTAMONTOYA-ET

D: PEAK JOLIE-ET

MGS: BACON-HILL PETY MODESTY

MGD: COMPASS-TRT AMRICA
JABRA

097HO42106 LUKAKU



SIEMERS RUBICN M-ROZ-MIA-ET VG-87,DAM

PROVEN **FEED EXCEL**
Breeding for Feed Efficiency

PEAK LUKAKU-ET
ELDORADO X RUBICON X
MCCUTCHEN
HO840003145229850
DOB: 9/11/17
aAa: 423615
99% RHA
BETA CASEIN: A1A2
KAPPA CASEIN: AE
LACTOGLOBULIN: AA

PGS BACON-HILL MONTROSS

PGD: ALLNURE ELEONOR

S: DG ALBERO ELDORADO

D: SIEMERS RUBICON M-ROZ-
MIA-ET VG-87

MGS: EDG RUBICON

MGD: SIEMERS MCCUTH ROZ

CRV EFFICIENCY 14%	
LONGEVITY 211	FEED EFFICIENCY 108

CRV HEALTH 1%		
HOOF HEALTH 101	UDDER HEALTH 99	FERTILITY 98

PRODUCTION			DAUGHTERS 0 • HERDS 0 • 95% REL		
MILK	941	FAT +94	+0.20%	PRO +58	+0.10%
SCS	2.87	CFP	152	MUN	2.5
FEED SAVED	91	RFI	-44	LACT +29	-0.01%
				METHANE	-

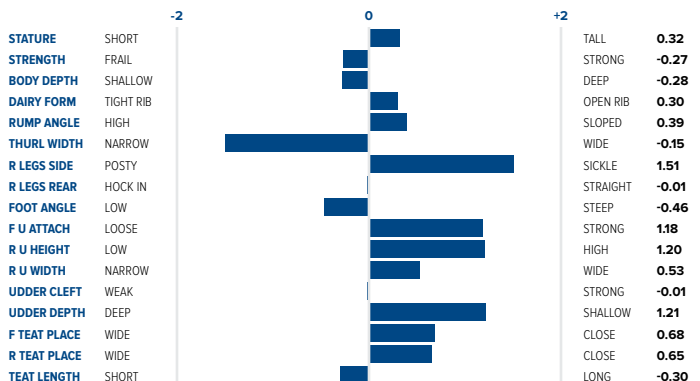
HEALTH TRAITS			
PL	3.9	COW LIVABILITY 3.2	H. LIVABILITY 1.2
MILK FEVER	-0.2	DAB	0.8
MAS (U.S.)	1.1	CL MASTITIS 98	S-CL MASTITIS 100
TEMP	105	PERS	103
			RET PLACENTA 0.2
			METRITIS 2.0
			KETOSIS 1.6

CALVING TRAITS & FERTILITY			
DPR	-3.1	CCR	-1.5
EFC	1.4	G. LENGTH	-1.0
SCE	1.9	SSB	4.9
		DCE	2.1
		F. INDEX	-2.3
		BW	103
		DSB	5.0

MILK ROBOT			
ROBOT INDEX	109	ROBOT EFFICIENCY	109
		ROBOT INTERVAL	99

INDEX			
NM\$	890	GTPI	2779
CM\$	909	FM\$	747
GM\$	783	NVI	160

CONFORMATION			DAUGHTERS 80 • HERDS 21 • 85% REL		
PTAT	0.68	UDC	0.91	FLC	0.30
				BWC	-0.31
				LOC	96



CRV EFFICIENCY 14%	
LONGEVITY 370	FEED EFFICIENCY 108

CRV HEALTH 4%		
HOOF HEALTH 99	UDDER HEALTH 104	FERTILITY 103

PRODUCTION			DAUGHTERS 0 • HERDS 0 • 98% REL		
MILK	1204	FAT +84	+0.13%	PRO +39	+0.01%
SCS	2.85	CFP	123	MUN	-0.7
FEED SAVED	86	RFI	-35	LACT +76	+0.15%
				METHANE	-

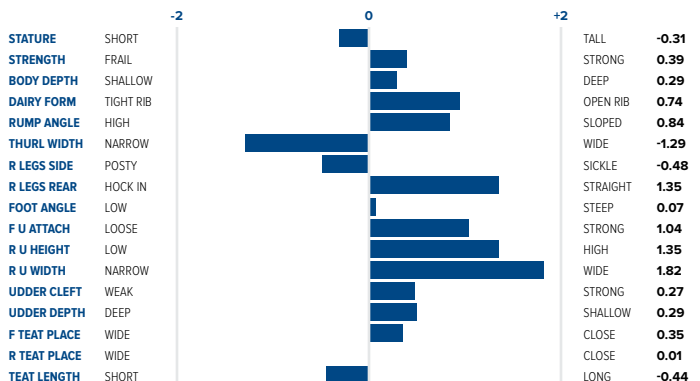
HEALTH TRAITS			
PL	5.4	COW LIVABILITY 3.7	H. LIVABILITY 0.2
MILK FEVER	0.2	DAB	0.4
MAS (U.S.)	1.1	CL MASTITIS 103	S-CL MASTITIS 104
TEMP	103	PERS	105
			RET PLACENTA 0.1
			METRITIS 1.1
			KETOSIS 0.8

CALVING TRAITS & FERTILITY			
DPR	-0.6	CCR	0.7
EFC	-1.2	G. LENGTH	-2.0
SCE	1.5	SSB	5.3
		DCE	1.4
		F. INDEX	-0.6
		BW	98
		DSB	4.3

MILK ROBOT			
ROBOT INDEX	106	ROBOT EFFICIENCY	106
		ROBOT INTERVAL	98

INDEX			
NM\$	847	GTPI	2782
CM\$	851	FM\$	829
GM\$	774	NVI	216

CONFORMATION			DAUGHTERS 1033 • HERDS 192 • 93% REL		
PTAT	1.20	UDC	1.11	FLC	1.24
				BWC	-0.33
				LOC	101



097HO41774 **HOTLINE****PROVEN**

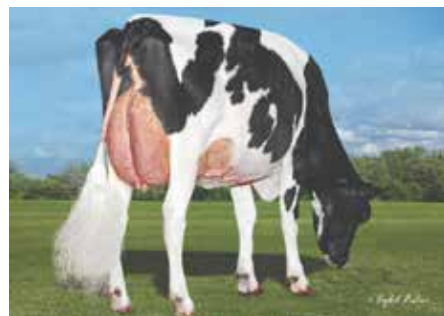
PEAK HOTLINE-ET
 ALTAHOTROD X MOGUL X
 MAN O MAN
 HO840003129128855
 DOB: **7/6/15**
 aAa: **321465**
100% RHA
 BETA CASEIN: **A2A2**
 KAPPA CASEIN: **AA**
 LACTOGLOBULIN: **AB**
 HAPLOTYPES: **HH1**

TRESTELLE SEI ORE HOTLINE GANNY DAUGHTER



KINGS-RANSOM HOT LATEX, VG-85 DAUGHTER

S: GLEN-D-HAVEN ALTAHOTROD
D: J-MOR MOGUL HOSTICE-ET

PGS DE-SU JEROD 1223**PGD:** GLEN-D-HAVEN IOTA BAMBI-ET**MGS:** MOUNTFIELD SSI DCY MOGUL**MGD:** J-MOR MAN O-MAN HONEY ET097HO42142 **DOC HARDY****PROVEN**

SIEMERS DOC HANAN 28286-ET EX-92 FULL SISTER TO DOC HARDY

SIEMERS DOC HARDY
 KING DOC X MONTEREY X
 MOGUL
 HO840003148093491
 DOB: **2/17/18**
 aAa: **234615**
99% RHA
 BETA CASEIN: **A2A2**
 KAPPA CASEIN: **AB**
 LACTOGLOBULIN: **AB**



DOC HARDY

S: WOODCREST KING DOC
D: SIEMERS MONTEREY HAN-AN-ET VG-85

PGS MORNINGVIEW MCC KINGBOY**PGD:** WCD-ZBW MACK DADDY ET**MGS:** VIEW-HOME MONTEREY**MGD:** COOKIECUTTER MOG HANKER**CRV EFFICIENCY 5%**LONGEVITY **-340**FEED EFFICIENCY **105****CRV HEALTH -2%**HOOF HEALTH **98**UDDER HEALTH **98**FERTILITY **99**

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 99% REL			
MILK	1111	FAT +87	+0.15%	PRO +53	+0.06%	LACT +72	+0.12%
SCS	3.04	CFP	140	MUN	1.4	METHANE	-
FEED SAVED	-50	RFI	-104				

HEALTH TRAITS

PL	-4.8	COW LIVABILITY	-8.1	H. LIVABILITY	0.5	CALF SURVIVAL	95
MILK FEVER	-0.2	DAB	-0.3	KETOSIS	1.0	METRITIS	0.3
MAS (U.S.)	1.4	CL MASTITIS	98	S-CL MASTITIS	98	RET PLACENTA	-0.2
TEMP	96	PERS	98				

CALVING TRAITS & FERTILITY

DPR	-3.6	CCR	-4.7	HCR	0.5	F. INDEX	-2.4
EFC	5.9	G. LENGTH	-2.0	C. INTERVAL	98	BW	100
SCE	1.8	SSB	6.7	DCE	1.9	DSB	5.3

MILK ROBOT

ROBOT INDEX	103	ROBOT EFFICIENCY	106	ROBOT INTERVAL	99
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INDEX

NM\$	378	GTPI	2667	NVI	143	CM\$	388	FM\$	287	GM\$	408
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CONFORMATION

DAUGHTERS 8667 • HERDS 2040 • 99% REL

PTAT	2.82	UDC	2.26	FLC	1.62	BWC	1.02	LOC	105
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**CRV EFFICIENCY 10%**LONGEVITY **62**FEED EFFICIENCY **106****CRV HEALTH -2%**HOOF HEALTH **99**UDDER HEALTH **96**FERTILITY **101**

PRODUCTION				DAUGHTERS 0 • HERDS 0 • 93% REL			
MILK	1223	FAT +62	+0.05%	PRO +42	+0.01%	LACT +85	+0.11%
SCS	3.17	CFP	104	MUN	0.1	METHANE	-
FEED SAVED	-37	RFI	-19				

HEALTH TRAITS

PL	1.7	COW LIVABILITY	-1.6	H. LIVABILITY	0.9	CALF SURVIVAL	100
MILK FEVER	0.0	DAB	0.1	KETOSIS	0.6	METRITIS	0.7
MAS (U.S.)	-0.7	CL MASTITIS	96	S-CL MASTITIS	97	RET PLACENTA	-0.1
TEMP	99	PERS	105				

CALVING TRAITS & FERTILITY

DPR	-3.1	CCR	-3.4	HCR	0.9	F. INDEX	-2.4
EFC	0.5	G. LENGTH	1.0	C. INTERVAL	98	BW	102
SCE	2.3	SSB	5.9	DCE	2.3	DSB	5.6

MILK ROBOT

ROBOT INDEX	109	ROBOT EFFICIENCY	114	ROBOT INTERVAL	95
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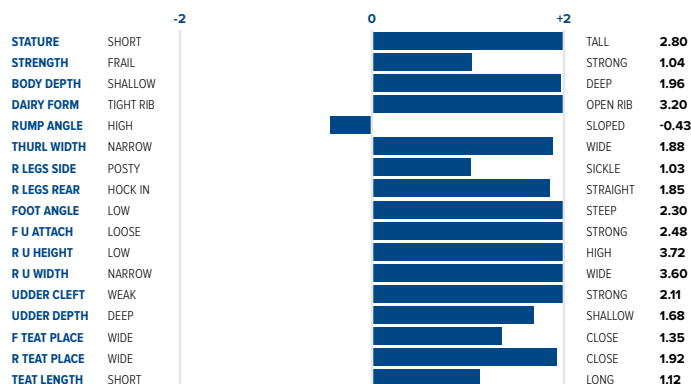
INDEX

NM\$	497	GTPI	2614	NVI	114	CM\$	497	FM\$	478	GM\$	412
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CONFORMATION

DAUGHTERS 19 • HERDS 9 • 86% REL

PTAT	3.04	UDC	2.22	FLC	1.53	BWC	0.37	LOC	97
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Key Words: PROFITABLE & SUSTAINABLE

“A small improvement in feed efficiency has a major impact on the operating result.”

“We constantly look for opportunities to optimize our farm. Based on our knowledge about feed efficiency, we can once again move forward,” says Elma Vroege who, along with her family, manages a dairy of 1,100 cows. At this farm, CRV monitors the feed intake and milk production of individual cows. “We see significant differences in feed efficiency between the cows. This means there are gains to be made,” says the producer.

“Feed costs largely determine the cost of a litre of milk. If we can slightly reduce the feed costs, that will immediately have a major impact on the total operating results,” says Elma Vroege. In Dalen, she and her family manage a dairy of 1,100 cows, with 600 hectares (1482 acres) of land. The cows are milked three times a day and achieve a rolling annual average of approximately 11,500 kg (25,353 lbs) of milk on a full TMR with 4.0% fat and 3.6% protein.

The Vroege family’s farm is one of the dairies where CRV has been monitoring the feed intake and milk production of individual cows for the past three years.



Producer Elma Vroege shares her farm’s experience with breeding for Feed Efficiency.

This information is used (among other things) in estimating the breeding values for feed efficiency. “We constantly look for opportunities to optimize our farm. Based on our knowledge about feed efficiency, we can once again move forward,” Vroege explains the entrepreneurs’ interest in this study.

Significant Differences, Considerable Gains

“Despite the same breeding, the same management, the same rations and the

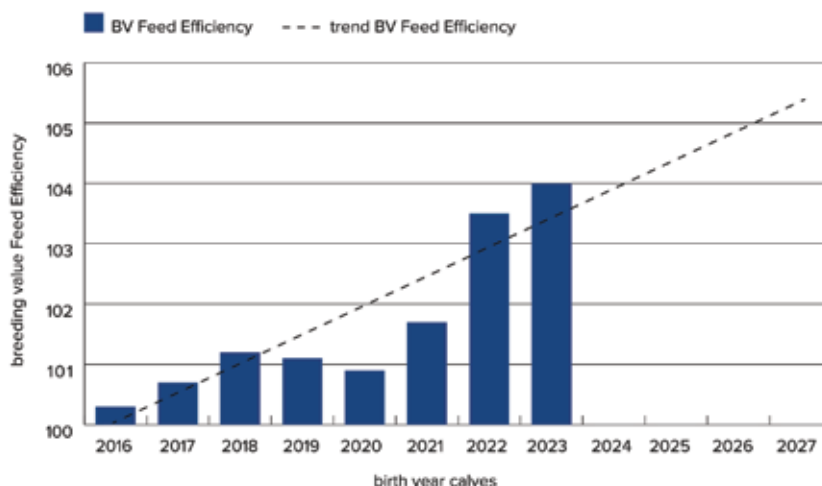


Figure 1 – The trend of the average breeding value feed efficiency per year of birth of the calves at the Vroege family’s farm since 2016

same external traits, we see significant differences in feed efficiency between different cows,” says Vroege about the insights that the three-year study into feed intake has provided. “The cows with the best scores for feed efficiency eat a kilogram less dry matter and produce 10 kg (22 lb) more Fat and Protein Corrected Milk (FCPM) than the cows with the lowest scores,” she explains. According to the producer, these significant differences, which are mainly determined by genetics, show that considerable gains can be made from breeding and selecting for feed efficiency. “If we can increase the feed efficiency by a tenth, the average milk production increases by 2.5 kg (5.5 lb) of milk per cow per day if the feed costs remain the same,” she learned from calculations by the feed advisor. In her view, this means not only a better financial return, but also a more efficient use of scarce raw materials and production space. She also sees a clear correlation between feed efficiency and greenhouse gas emissions. “Cows with a high feed efficiency require less feed to produce a kg of milk and will therefore also have lower greenhouse gas emissions,” the livestock farmer explains.

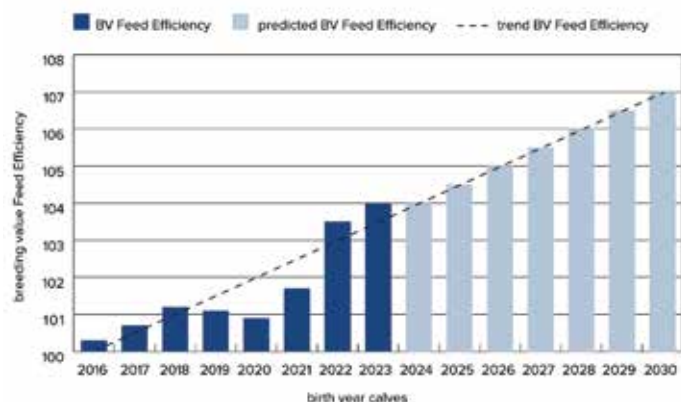


Figure 2 – The predicted trend, assuming the same breeding policy, of the average breeding value feed efficiency per year of birth of the calves at the Vroege family's farm

One point higher breeding value feed efficiency represents one percent more milk from the same quantity of feed. This means that by 2030, the Vroege family's herd will produce approximately 4.7 percent more milk from the same quantity of feed in comparison to 2022. If milk production in 2022 was an average of 11,500 kg (25,353 lb) per cow, then this would be an average of 12,040 kg (26,543 lb) of milk per cow in 2030 at the same feed costs. At a milk price of 50 cents, this means an additional feed balance of 270 Euros (\$292 USD) per cow.

Feed Efficiency is Part of the Breeding Goal

“We certainly include feed efficiency in our breeding policy, both in the selection of our own animals that we use for breeding, but also in the selection of the bulls we use,” says Vroege. “We also keep other important traits in mind. We want to breed strong, healthy cows that achieve high lifetime production without any problems, along with high feed efficiency,” describing the breeding goal.

Figure 1 shows the historic trend of the average breeding value feed efficiency per year of birth of the calves at the Vroege family's farm since 2016. After the start of the study into feed intake, they started to breed for feed efficiency with greater awareness, which translated into an increase in the average genetic predisposition of the calves for this trait.

Additional Feed Balance by Breeding for Feed Efficiency

The dotted line in figure 1 shows the trend in the genetic progress achieved in feed efficiency between 2016 and 2023. Figure 2 shows that if the Vroege family continues this trend in future years, the calves born in 2030 will have an average breeding value of 107 for feed efficiency.

If the age structure of the Vroege family's herd remains the same in future years, the genetic predisposition for feed efficiency of the milk-producing animals will average 104.7 in 2030, compared to approximately 100 in 2022.

What is considered when calculating CRV FeedExcel value?

- Milk Production
- Feed Intake
- Body Weight
- Body Condition Score
- Activity

How does CRV FeedExcel compare to competitors' values?

CRV currently has the world's largest reference population of lactating dairy cows collecting actual feed intake data. This data is reliably collected with feed bins on commercial and research dairies in the Netherlands. We are collecting real feed intake data from lactating cows with real production records. At this time, no competitor can claim the collection of data from such a large milking herd population directly influencing published values.

The USDA works with an official breeding value for Feed Saved. How does this compare with CRV Feed Efficiency?

Feed Saved indicates the expected reduction of feed consumed per lactation based on evaluations for Residual Feed Intake and Body Weight Composite; measured in pounds of dry matter intake. Daughters of a Holstein bull with a FSAV PTA of -300 pounds per lactation are expected to consume an average of 300 pounds of feed more than the average cow based on production & body size.

CRV Feed Efficiency provides the expected amount of milk, fat and protein (production) to be produced from the feed consumed - a measure of expected efficiency to convert input to output. Feed Saved reflects the expected feed needed for production and body size compared to the breed average - a measure of the expected feed saved without consideration to conversion of output.

For additional information about using FeedExcel in your herd, contact your local representative.

NAAB CODE	NAME	BETA CASEIN	KAPPA CASEIN	aAa	DMS	PEDIGREE	PRO DAU	PRO HERD	HEALTH					EFFICIENCY		
									CRV HEALTH	HOOF	UDDER	FERTILITY	PL	CRV EFFICIENCY	LONGEVITY	FEED EFFICIENCY
097HO42746	ASGARDIAN	A1A2	BB	243615	126,561	JANGLE X ESCALATE X IMAX	0	0	2	102	102	102	6.8	23	494	114
097HO42852	MECANICO	A1A2	BE	243651	456,561	ALTAKEVLOW X ALTAZAZZLE X MARIUS	0	0	6	102	100	106	7	22	375	113
097HO42623	THRIFTY	A2A2	AB	234165	-	TORRO X BILLY X MATTERS	0	0	4	98	99	104	4.9	19	201	113
097HO42757	STAR 2409	A2A2	AA	321465	345,456	LIONEL X JEDI X CABRIOLET	0	0	1	98	100	103	4.5	21	427	113
097HO42751	ONSTAGE	A1A2	BE	342516	234,123	SUPERCARGE X GRANITE X MILLINGTON	0	0	4	101	102	104	5	19	215	113
097HO42690	TIDES-OUT	A2A2	AB	324156	234,246	OUTCOME X CASCADA X TORONTO	0	0	2	99	104	103	3	19	363	113
097HO42437	ESCAPADE	A2A2	BB	234156	126,561	ACURA X SAMARITAN X ACHIEVER	0	0	3	99	102	105	3.8	18	360	112
097HO42881	ANSON	A2A2	AB	264135	561	JANGLE X MARIUS X HELIX	0	0	6	101	99	106	5.7	17	180	111
097HO42756	EAGLEHEART	A2A2	AB	243615	456,246	EXPECTANT X RENEGADE X FRAZZLED	0	0	4	101	104	106	7	18	462	111
097HO42850	ZYMURGY	A2A2	BB	243165	-	ZOOTY X INCREDIBLE X POSITIVE	0	0	4	103	102	103	5.2	18	424	110
097HO42628	TICTOC	A1A2	BB	423651	234,345	ALPHABET X LIONEL X DELTA	0	0	2	100	102	101	4.1	16	245	110
097HO42585	ZURI	A2A2	BB	234165	135,345	ALTAZAZZLE X TAHITI X YODER	0	0	3	103	101	100	2.9	18	379	110
097HO42747	FRANDRAL	A2A2	AB	261435	561,126	JANGLE X ESCALATE X IMAX	0	0	1	98	102	100	6.6	14	206	110
097HO42683	SORTUDO	A2A2	AA	432156	345,135	HELIXXALTAMILESTONEHOTLINE	0	0	-1	96	99	98	0	17	128	110
097HO42799	DEFIANT	A2A2	AB	234165	234,123	GAMEDAY X LEGACY X FREEBORN	0	0	1	101	105	101	5.9	17	553	109
097HO42682	ZICO	A2A2	BB	321465	135,345	ALTAJUMP CUTXPURSUITXALTATOPSHOT	0	0	3	101	102	103	5.8	15	338	109
097HO42754	OUT TUCKER	A1A1	BE	342516	126,561	OUTCOME X ALPHABET X TORONTO	0	0	4	101	101	103	4.2	15	301	109
097HO42846	DAZZLIN	A1A2	AE	432561	345,456	ENGINEER X LEGACY X CHALLENGER	0	0	3	101	101	104	6.5	14	259	108
097HO42613	GAOCHAN	A2A2	AB	354126	456,345	ACURA X JEDI X ALTAHOTROD	0	0	-1	99	100	105	4.8	13	263	108
097HO42760	RAY	A2A2	BB	123645	126,561	RAYSHEN X LEGACY X ACHIEVER	0	0	3	100	103	106	5.1	14	304	108
097HO42745	PLAYA	A2A2	AA	243165	135,123	AUSTAD X EISAKU X ACHIEVER	0	0	2	102	99	104	4.6	15	355	108
097HO42608	MR WU	A1A2	BB	432615	234,246	HIGHJUMP X GRANITE X MILLINGTON	0	0	1	98	100	103	3.8	14	188	108
097HO42510	FUGLEMAN	A1A2	AA	516324	-	ALTAZAZZLE X POSITIVE X MEDLEY	0	0	1	102	99	103	4.1	16	327	108
097HO42759	ICE	A2A2	AB	315246	561,126	CONWAY X ALTATRILINE X DUKE	0	0	2	97	98	104	2.3	13	53	108
097HO42584	COLLECTOR	A2A2	AA	234165	345,135	ALTAPLINKO X FRAZZLED X PAGEONE	0	0	7	104	102	107	6	17	483	108
097HO42234	MORANT	A2A2	AB	243156	-	ALTAMONTOYA X MODESTY X JABIR	339	51	1	101	99	98	3.9	14	211	108
097HO42106	LUKAKU	A1A2	AE	423615	-	ELDORADO X RUBICON X MCCUTCHEN	2320	351	4	99	104	103	5.4	14	370	108
097HO42718	TONE	A2A2	AB	351426	234,345	OUTCOME X ALPHABET X TORONTO	0	0	3	99	100	106	5.4	11	213	107
097HO42880	DOORDASH	-	-	231465	345,234	DRIVE X ACURA X SAMURI	0	0	-	-	-	-	5.4	-	-	-
097HO42878	OVERTHERE	A1A2	BE	342516	234,345	DRIVE X GRANITE X MILLINGTON	0	0	6	98	104	105	5.7	12	228	107
097HO42849	CUMBO	A2A2	BB	321546	234,123	ALTAWHEELHOUSE X LEGACY X DUKE	0	0	2	99	100	104	5.8	12	165	107
097HO42798	DYNORAMA	A2A2	AB	432516	561,135	RAYSHEN X LEGACY X HELIX	0	0	4	103	102	105	4.6	15	435	107
097HO42536	CURVEBALL	A2A2	AB	243615	345,456	FASTBALL X ALTATOPSHOT X MR MOGUL DELTA	0	0	4	104	99	106	5.4	13	302	107
097HO42797	HIGHSTAKES	A2A2	AB	243615	345,456	GALAPAGOS X MAXIMUS X REASON	0	0	1	100	100	100	2.2	14	172	107
097HO42624	SAM BAL BEI	A2A2	AB	315246	123,234	MOONSHINER X EISAKU X SPECTRE	0	0	3	100	99	103	4.1	13	326	107
097HO42464	INTRICATE	A2A2	AB	342156	-	PURSUIT X ACHIEVER X DELTA	0	0	3	102	101	102	5.2	11	121	107
097HO42587	PARKER	A2A2	BB	231645	135,561	PARI X BRASS X DELTA	0	0	2	100	101	102	4.3	11	275	107
097HO42749	BASTION-P	A1A2	BB	315246	-	EXTRA X EISAKU X ACHIEVER	0	0	0	102	98	103	4.5	12	264	107
097HO42424	UPSWING	A2A2	AA	243561	345,135	PURSUIT X DUKE X RUBICON	0	0	4	102	100	105	5	11	379	106
097HO42625	GUAM	A2A2	AA	234156	123,135	MOONSHINER X LEGACY X LEGENDARY	0	0	6	101	104	105	5.5	14	558	106
097HO42603	HEERSCH-SL	A1A1	BE	435261	-	LONE RANGER X JEDI X JOSUPER	0	0	-1	97	98	100	2	9	100	106
097HO42142	DOC HARDY	A2A2	AB	234615	-	KING DOC X MONTEREY X MOGUL	123	23	-2	99	96	101	1.7	10	62	106
097HO42579	GRANDMASTER	A1A2	BB	234156	135,123	ALTAZAZZLE X TAHITI X RUBICON	0	0	6	100	101	106	4.6	12	291	105
097HO42761	VOLSTAGG	A2A2	AB	324156	-	RAYSHEN X ROME X ACHIEVER	0	0	6	102	103	104	4.6	9	206	105
097HO42748	BRAZEN	A1A2	AE	342156	345,135	DELUXE X HEROIC X ACHIEVER	0	0	5	102	103	106	5.1	11	346	105
097HO42752	GALLIVANT	A1A2	AB	432615	561,456	EXPECTANT X PURSUIT X HELIX	0	0	3	101	101	104	6.2	12	411	105
097HO42425	ENGINEER	A2A2	AB	351426	561	PURSUIT X PROPHECY X DELTA	0	0	0	98	100	103	6.4	9	242	105
097HO42719	GADZOOKS	A1A2	AB	321456	135,561	INTRICATE X RIVETING X GRANITE	0	0	3	101	102	103	4	8	107	105
097HO42600	HOHHOT	A1A1	BE	432561	-	FASTBALL X YODA X DELTA	0	0	5	102	103	104	5.2	11	399	105
097HO42697	HOMELAND	A2A2	AA	324156	123,135	ALTAWHEELHOUSE X ALTAZAZZLE X ALTAEXPLOSION	0	0	2	101	99	104	4.1	12	263	105
097HO42611	OVERHOT	A2A2	AB	432516	345,234	HIGHJUMP X BRASS X GRANITE	0	0	4	98	103	104	3.6	10	183	105
097HO41774	HOTLINE	A2A2	AA	321465	-	ALTAHOTROD X MOGUL X MAN O MAN	15253	3251	-2	98	98	99	-4.8	5	-340	105

Information from CDCB 04.23 production and HA 04.23 type evaluations. BY+ denotes Brachyspina positive bulls with 95% reliability. TPI is a servicemark of Holstein Association USA, Inc.

SPRING 2023 Dairy Guide

PREMIUM MILK										CONFORMATION				FERTILITY				MILK ROBOT			US INDEXES				SiryX
MILK	FAT	FAT%	PROTEIN	PROTEIN%	LACTOSE	LACTOSE%	CFP	SCS	MUN	PTAT	UDC	FLC	BW	DPR	FERTILITY INDEX	CCR	SCE	ROBOT INDEX	EFFICIENCY	INTERVAL	CM\$	NM\$	GM\$	TPI	SiryX
2376	74	-0.06	67	-0.02	120	0.05	141	2.79	0	0.96	1.24	-0.18	-1.49	-0.6	0.5	2.2	1.6	113	112	102	1054	1045	988	2919	SiryX
787	115	0.29	59	0.12	46	-0.07	174	2.69	-0.1	0.59	1.27	0.24	-1.37	1.2	1.5	3.2	1.5	105	104	102	1253	1227	1213	3105	SiryX
795	113	0.29	47	0.08	2	-0.06	160	2.82	0	0.51	1.37	0.23	-2.29	-0.3	0.3	0.5	1.5	100	101	99	1129	1045	1095	2955	SiryX
2855	113	0.01	82	-0.02	113	0.07	195	2.85	0.1	1.02	1	0.02	-1.34	-2.4	-1.1	0.9	1.8	108	107	102	1123	1123	1063	3006	SiryX
913	98	0.22	49	0.07	54	0.08	147	2.73	-0.1	1.44	1.69	1.02	-0.9	0.6	1.4	1.6	1.8	97	95	102	1044	1045	1019	3012	SiryX
1614	83	0.07	73	0.08	55	-0.11	156	2.87	0	2.14	2.44	1.5	-0.24	-0.2	0.1	0.6	2.6	105	103	102	870	1045	845	3013	SiryX
2245	101	0.05	71	0	75	-0.04	172	2.94	0.4	1.35	0.98	0.58	-0.61	-1	0.1	0.3	2	111	110	101	985	982	944	2982	SiryX
781	103	0.25	46	0.08	26	0	149	2.91	0.1	0.69	0.87	-0.11	-1.44	1.9	2.5	4.1	1.5	112	114	99	1040	1045	1045	2936	ASK
1100	83	0.14	42	0.03	60	-0.02	125	2.63	-0.3	1.42	2.35	0.58	-1.09	0.1	0.8	2	2.2	104	102	101	997	1045	928	2943	SiryX
1324	112	0.21	65	0.08	57	-0.09	177	2.69	0.1	1.41	1.75	0.1	-0.84	-1.4	-0.5	0.3	1.7	112	112	100	1133	1112	1056	3057	SiryX
2016	128	0.17	70	0.02	57	-0.04	198	2.96	0	1.43	1.44	-0.28	-1.22	-1.2	-0.5	0.1	2	108	106	103	1121	1115	1083	3051	SiryX
1227	129	0.28	59	0.07	65	-0.01	188	2.94	0.4	1.65	1.76	0.2	-0.44	-1.7	-0.7	-0.2	1.8	115	114	102	1035	1021	991	3032	SiryX
1927	77	0.01	59	0	90	0.13	136	2.78	0	1.22	1.92	0.16	-1.23	-1.5	-0.6	0.2	1.6	112	112	100	1020	1045	923	2901	ASK
2312	128	0.13	84	0.04	103	-0.01	212	3.04	0.2	2.15	1.54	-0.18	-0.54	-3.7	-2.9	-3.4	2.5	104	105	100	904	897	868	2939	SiryX
994	107	0.24	54	0.08	71	0.06	161	2.64	-0.1	1.39	1.65	-0.1	-0.86	-1.2	-0.6	0.3	2.8	111	108	103	1097	1045	1013	2977	SiryX
2073	81	0	75	0.04	83	0.03	156	2.76	0.1	1.49	1.56	0.15	-0.24	-1.8	-0.9	-0.8	2.5	109	108	102	1015	1045	903	2957	SiryX
1819	85	0.05	71	0.05	41	-0.04	156	2.83	0.2	2.02	1.81	1.12	-0.32	0.3	0.7	0.7	2.1	105	104	101	968	1045	940	3028	ASK
362	120	0.37	48	0.13	-14	-0.08	168	2.69	0.1	0.96	0.93	0.57	-0.76	0.1	1.1	2.1	1.9	107	108	99	1166	1139	1093	3046	ASK
2948	93	-0.07	95	0.01	91	-0.02	188	3	0	0.54	0.3	-0.05	-0.03	-1.1	0.1	0.6	2.5	109	108	102	1095	1091	1039	2987	SiryX
1498	93	0.12	72	0.09	47	-0.03	165	2.78	0.1	0.62	0.61	0	-0.65	-0.7	0	-0.1	2.1	107	105	103	1065	1045	991	2924	SiryX
1344	101	0.17	58	0.06	51	-0.03	159	3.04	0	1.59	1.54	0.45	-0.75	0.4	0.5	1.7	1.8	110	110	102	1026	1045	1017	2965	ASK
1687	110	0.15	68	0.05	42	-0.08	178	2.89	0.3	2.08	2.19	0.74	-0.75	-1.8	-1	-1.2	2.4	104	104	100	1012	1001	945	3046	SiryX
1329	108	0.19	67	0.09	68	0.08	175	2.86	-0.1	1.89	2.02	0.71	-0.33	-2.3	-1.9	-1.7	2.1	109	110	99	987	969	885	2987	SiryX
674	126	0.35	53	0.11	11	-0.05	179	2.97	0.3	1.42	1.49	0.54	-0.17	-1.2	-0.5	-0.6	2.5	115	116	100	956	937	925	2947	SiryX
1566	83	0.08	57	0.03	82	0.04	140	2.75	-0.3	0.54	0.87	-0.11	-1.24	-0.1	0.9	1.6	1.6	107	106	102	945	1045	876	2850	SiryX
941	94	0.2	58	0.1	29	-0.01	152	2.87	2.5	0.68	0.91	0.3	-0.31	-3.1	-2.3	-1.5	1.9	109	109	99	909	1045	783	2779	SiryX
1204	84	0.13	39	0.01	76	0.15	123	2.85	-0.7	1.2	1.11	1.24	-0.33	-0.6	-0.6	0.7	1.5	106	106	98	851	1045	774	2782	SiryX
1322	90	0.13	60	0.06	30	0.02	150	2.82	0.3	1.42	2.02	0.69	-0.86	1.5	1.7	1.8	1.9	100	101	98	1075	1045	1059	3058	SiryX
1071	100	0.2	57	0.08	-	-	157	2.74		1.19	1.27	-0.18	-0.48	1	1.8	2.8	2.1	-	-	-	1090	1045	1068	3018	ASK
1008	99	0.21	55	0.08	40	0.02	154	2.71	-0.2	1.16	1.53	0.74	-0.53	1	1.8	2.4	1.3	100	98	101	1070	1045	1031	3057	SiryX
1181	98	0.18	62	0.09	61	-0.03	160	2.78	0.4	1.92	1.58	0.28	1.03	-0.2	0.7	1.8	1.8	107	107	100	1048	1045	971	3037	SiryX
1084	111	0.24	65	0.11	32	-0.01	176	2.81	0.3	0.86	0.8	-0.5	-0.09	0.3	0.8	1.6	1.8	108	105	104	1042	1020	999	2971	SiryX
1570	95	0.12	59	0.03	60	0.03	154	2.83	-0.1	0.73	0.91	0.56	-1.05	-1	-0.1	-0.4	2.1	103	103	101	1006	1045	925	2888	SiryX
1680	119	0.18	78	0.09	73	0	197	2.92	0	1.62	2.28	0.06	-0.84	-3	-1.9	-1.9	1.8	114	113	103	993	977	925	3018	SiryX
1823	95	0.08	60	0.01	61	-0.01	155	2.9	0.3	1.51	1.13	-0.14	-0.7	-0.7	0.2	0.4	2.2	109	109	101	974	1045	943	2901	SiryX
913	91	0.19	50	0.07	41	0.03	141	2.81	0.3	1.79	1.62	0.65	0.11	-0.4	0.4	1.1	1.9	113	113	101	961	1045	896	2945	SiryX
1248	83	0.12	58	0.07	57	-0.01	141	2.86	0.2	2.88	2.49	1.95	0.91	-0.8	-0.2	0.1	2.6	111	110	102	896	1045	831	3010	SiryX
1164	92	0.16	51	0.05	48	0.01	143	2.91	0.2	2.09	0.72	1.64	0.63	-0.4	0.2	0.3	2.2	104	105	100	866	1045	800	2898	SiryX
1068	104	0.22	53	0.07	35	-0.03	157	2.92	-0.1	1.89	1.6	1.01	1.08	-1.1	-0.1	0.1	1.8	106	106	101	960	1045	877	2975	SiryX
1132	86	0.15	55	0.07	55	0.01	141	2.75	0.1	1.79	1.99	-0.41	-0.4	0.5	1.3	2	1.9	107	104	104	958	1045	910	2964	SiryX
614	54	0.11	34	0.05	30	0.04	88	3	-0.2	-0.35	-0.24	-0.81	-0.32	-0.3	0.1	0.8	2	105	107	99	511	1045	488	2353	ASK
1223	62	0.05	42	0.01	85	0.11	104	3.17	0.1	3.04	2.22	1.53	0.37	-3.1	-2.4	-3.4	2.3	109	114	95	497	1045	412	2614	ASK
934	114	0.27	55	0.09	24	0.03	169	2.87	-0.1	0.75	1.54	-0.35	-1.3	0.2	0.7	1.5	1.3	108	109	98	1088	1070	1059	2996	SiryX
902	116	0.28	59	0.11	-14	-0.02	175	2.66	0.4	0.5	0.29	-0.71	-0.55	-0.8	-0.5	0.7	1.5	100	99	101	1072	1047	999	2921	SiryX
951	112	0.26	47	0.06	54	0.07	159	2.56	-0.2	1.41	1.45	0.82	-0.54	-1.9	-1.3	-2.1	2.3	108	107	101	1036	1045	926	2968	ASK
1715	87	0.07	53	0	65	-0.03	140	2.71	-0.2	2.02	2	0.93	-0.09	-0.4	0.5	1	2.1	109	107	103	1014	1045	945	3010	ASK
703	94	0.23	53	0.11	10	-0.01	147	2.84	0.3	1.1	0.87	1.21	0.3	-0.3	0.7	1.4	2.2	110	108	105	1011	1045	913	2949	SiryX
983	117	0.27	59	0.1	25	-0.01	176	2.8	0	2.03	1.48	0.47	0.12	-2.1	-1	-0.8	1.8	106	107	98	983	963	884	3007	ASK
1093	97	0.19	42	0.03	50	0.11	139	2.69	0.1	0.64	1.03	-0.05	-0.63	-0.7	0	0.7	2.2	103	104	98	978	1045	914	2834	ASK
1582	124	0.21	56	0.02	62	-0.01	180	2.91	0.3	1.56	1.61	-0.01	0.82	-1.3	-0.4	0.2	3	107	107	101	971	965	907	2992	SiryX
1609	105	0.15	61	0.04	35	0.01	166	2.77	0.1	2.06	1.99	0.55	-0.29	-1	-0.3	-0.1	2.3	106	103	104	937	926	890	3000	ASK
1111	87	0.15	53	0.06	72	0.12	140	3.04	1.4	2.82	2.26	1.62	1.02	-3.6	-2.4	-4.7	1.8	103	106	99	388	1045	408	2667	SiryX

Holstein Bulls

NEW

NAAB CODE	NAME	BETA CASEIN	KAPPA CASEIN	aAa	DMS	PEDIGREE	PRO DAU	PRO HERD	HEALTH					EFFICIENCY		
									CRV HEALTH	HOOF	UDDER	FERTILITY	PL	CRV EFFICIENCY	LONGEVITY	FEED EFFICIENCY
097HO42789	BRAVADO	A2A2	BB	324156	-	ALTAWHEELHOUSE X ROME X ACHIEVER	0	0	2	101	102	102	4.6	8	205	104
097HO42753	PROCEDURE	A2A2	AA	234165	561,135	GAMEDAY X LEGACY X SUPERHERO	0	0	2	102	99	104	6.8	9	190	104
097HO42717	TUNE	A1A2	BB	234165	123,234	OUTCOME X ALPHABET X TORONTO	0	0	6	100	100	107	4.6	8	195	104
097HO42696	PALOMINE	A1A1	AE	246315	345,436	ALTAHAILED X ALTABUNDLE X JEDI	0	0	1	96	101	102	2.8	10	307	104
097HO42620	DONKEYKONG	A2A2	BB	561342	561,135	DONZINO X LEGACY X HELIX	0	0	4	99	104	104	5.5	9	340	104
097HO42629	MR XIN	A2A2	AB	354162	345,135	ALONSO X MARIUS X HELIX	0	0	3	99	99	105	2.7	7	23	103
097HO42627	ORONO	A1A2	BE	234165	456,246	ROZLINE X DELTA-LAMBDA X DENVER	0	0	0	100	99	103	4.5	7	110	103
097HO42791	NIPPY-SL-P*RC	A1A2	BE	516342	561,456	BOEING-RED X TAHITI X EVEREST	0	0	2	100	103	102	2.9	7	206	103
097HO42790	POLAR-SL-PP-RED	A1A2	BE	456312	456,246	BOEING-RED X SINBA-PLN-RED X KAD	0	0	1	98	100	100	0.9	0	-77	103
097HO42788	TYROL	A1A2	BB	234156	126,561	PARI X EISAKU X MEGA LUCK	0	0	2	103	101	105	5.6	6	273	102
097HO42537	FACTOTUM	A1A2	BB	426351	-	ALTAAZZLE X POSITIVE X MEDLEY	0	0	4	101	102	105	4.4	8	336	102

Information from CDCB 04.23 production and HA 04.23 type evaluations. BY+ denotes Brachyspina positive bulls with 95% reliability. TPI is a servicemark of Holstein Association USA, Inc.

Dutch Holstein Bulls

NEW

NAAB CODE	NAME	BETA CASEIN	KAPPA CASEIN	aAa	PEDIGREE	NO. OF DAUGHTERS	NO. OF HERDS	HEALTH				EFFICIENCY		
								CRV HEALTH	HOOF	UDDER	FERTILITY	CRV EFFICIENCY	FEED EFFICIENCY	LONGEVITY
097HO42640	WARREN P	A2A2	AB	243615	WARMOND P RF X NOBEL X JUPIER	0	0	5	108	103	106	20	112	402
097HO42175	WOODY	A2A2	AB	321456	RANGER X JETSET	488	253	3	105	105	96	13	108	453
097HO42525	DOLMEN	A1A2	BB	432516	TOPSTONE X RELEVANT	0	0	6	106	105	101	19	110	579
097HO42674	ENCOURAGE	A2A2	AB	243165	FRAGRANT X TRUST	0	0	8	107	105	103	22	112	665
097HO42573	FLAGSTONE	A2A2	AB	432561	TOPSTONE X RELEVANT X ALTATOPSHOT	0	0	5	106	106	103	18	109	588
097HO42498	LIBERATE	A2A2	AB	342516	GIGANTIX X RUSH HOUR	0	0	5	108	103	100	13	105	565
097HO42461	BELIEVER	A2A2	BB	243165	LUNAR X ALTATOPSHOT	0	0	6	105	100	103	13	106	350
097HO42511	FAIR PLAY	A1A2	BB	324165	WOODY X SUNFIT P	0	0	4	105	107	99	12	105	546
097HO42540	VULCANO P	A2A2	BB	234165	NIPPON P X TRUST	0	0	7	108	106	103	14	107	539
097HO42563	THERAPY	A2A2	AB	243615	LAWRENCE X NOBEL	0	0	8	109	105	103	13	107	546
097HO42467	LUCARDI	A2A2	AA	432156	YES X TRUST	0	0	3	106	103	100	13	107	323
097HO42551	PINEAPPLE P	A2A2	AB	354126	NIPPON P X WATERLOO X HOTSPOT P	0	0	6	106	105	108	12	105	447
097HO42387	ENDLESS RF	A1A1	EE	243165	JACUZZI X FINDER	0	0	7	107	105	103	12	105	406
097HO42575	FOSTER PP	A2A2	AB	234165	NIPPON P X TRUST X HOTSPOT P	0	0	6	103	105	108	11	105	330
097HO42543	FAST LANE	A1A2	AB	243615	REMINGTON X LUSTRUM X ALTARESERVE	0	0	6	106	103	105	14	107	560
097HO42501	PERFECT	A2A2	AB	345261	WOODY X JAFIN	0	0	5	107	107	100	9	104	457
097HO42700	PREPPER P	A1A1	BB	243165	JAWLINE PP X NOBEL	0	0	6	104	102	105	16	110	491
097HO42546	LIXOR	A1A2	BB	324156	NIPPON P X RUSH HOUR	0	0	5	107	107	105	8	100	607
097HO42396	EVERTON	A2A2	BB	345216	E PROFIT X JORBEN	0	0	6	103	106	100	8	104	308
097HO42402	XANDER	A1A2	AB	423561	FLORIS X BEATBOX	0	0	6	108	100	105	11	105	338
097HO42663	CHEESE*RC	A2A2	BB	234165	LIFESAVER-RED X LARRY	0	0	10	108	105	108	7	101	587
097HO42134	STARMAKER	A2A2	AB	234156	ADORABLE X MOBILE	305	148	7	107	107	105	1	98	402

Information presented on NVI Dutch base from 04.23.

SPRING 2023 Dairy Guide

PREMIUM MILK										CONFORMATION				FERTILITY				MILK ROBOT			US INDEXES				SiryX
MILK	FAT	FAT%	PROTEIN	PROTEIN%	LACTOSE	LACTOSE%	CFP	SCS	MUN	PTAT	UDC	FLC	BW	DPR	FERTILITY INDEX	CCR	SCE	ROBOT INDEX	EFFICIENCY	INTERVAL	CM\$	NM\$	GM\$	TPI	SiryX
1108	124	0.28	58	0.08	18	0.04	182	2.84	0.3	0.86	0.82	0.78	-0.01	-1.7	-0.9	-0.9	2.2	104	104	99	1069	1052	984	2971	SiryX
961	96	0.2	46	0.06	35	-0.02	142	2.67	-0.1	1.4	1.35	0.1	-0.39	0.6	1.3	2.5	2.2	109	109	101	1028	1045	959	2960	ASK
1189	96	0.17	66	0.1	-2	-0.04	162	2.91	0.2	1.76	1.98	0.56	-0.06	1.9	2	2.4	1.8	103	103	101	1007	1045	1007	3075	SiryX
1961	101	0.09	71	0.03	89	0.06	172	2.89	-0.1	1.57	1.48	0.08	0.34	-2.2	-1.2	-1.1	1.9	109	107	103	916	907	850	2932	SiryX
1077	72	0.11	40	0.02	40	0.07	112	2.67	0.3	1.26	1.52	0.17	-0.47	0.5	0.9	0.9	2	104	103	100	803	1045	747	2777	SiryX
1415	128	0.25	71	0.09	26	-0.07	199	2.93	0.3	1.18	0.92	0.25	0.71	-2.5	-1.7	-2	2.2	109	112	96	975	958	882	2964	SiryX
1394	81	0.09	65	0.07	44	0.04	146	2.89	0.1	2.47	2.1	1.87	0.43	-0.2	0.3	1.4	2.6	106	106	101	891	1045	844	2999	SiryX
1022	65	0.09	44	0.04	26	0.05	109	2.82	-1.3	0.44	0.22	-0.36	0.46	-0.6	-0.2	0	2	101	102	97	607	1045	550	2552	ASK
456	43	0.09	23	0.03	11	0.12	66	2.93	0.1	0.31	0.34	0.15	-0.06	-1.7	-1.1	-2.1	2.1	101	103	97	343	1045	289	2273	ASK
1301	89	0.13	67	0.09	37	0.05	156	2.93	0	2.35	1.61	1.56	1.47	1.3	1.8	2.6	2.8	109	108	102	981	1045	939	3095	SiryX
1016	94	0.19	52	0.07	40	-0.01	146	2.81	0	1.41	2.57	0.35	-0.3	0.2	0.4	0.9	1.4	108	107	102	936	1045	898	2967	SiryX

PRODUCTION								CONFORMATION			FERTILITY		MILK ROBOT			INDEXES	SiryX
MILK KG	FAT KG	FAT%	PROTEIN KG	PROTEIN%	LACTOSE KG	LACTOSE%	CFP KG	PTAT	UDC	FLC	SCE	BIRTH INDEX	ROBOT INDEX	EFFICIENCY	INTERVAL	NVI	SiryX
2202	79	-0.13	0	0.08	97	-0.03	91	103	104	102	101	101	113	108	109	346	-
1809	89	0.12	67	0.04	93	0.10	106	111	111	106	101	102	93	96	102	279	SiryX
1786	119	0.41	71	0.08	76	-0.05	190	105	104	106	100	106	110	108	102	350	-
1745	113	0.37	96	0.33	83	0.03	209	104	103	105	105	108	106	100	108	415	-
1581	116	0.47	66	0.11	76	0.04	119	107	107	104	95	104	109	105	104	356	SiryX
1484	92	0.28	76	0.24	66	-0.02	120	106	104	105	104	104	110	106	107	298	-
1114	84	0.37	51	0.12	58	0.07	115	106	109	100	103	105	103	101	104	243	SiryX
1107	65	0.18	56	0.18	54	0.03	121	110	108	107	98	102	107	101	108	267	-
1055	66	0.21	70	0.34	45	-0.03	136	106	103	106	104	100	110	106	104	316	-
977	40	-0.01	51	0.17	50	0.05	91	107	106	103	104	107	106	100	108	275	-
866	97	0.62	56	0.27	35	-0.05	108	109	107	106	104	101	104	100	105	260	SiryX
802	55	0.22	43	0.16	31	-0.06	73	105	105	105	105	100	107	102	106	270	SiryX
793	115	0.84	48	0.21	44	0.08	163	105	102	105	101	107	106	101	106	297	SiryX
780	68	0.36	54	0.28	27	-0.09	78	103	105	102	104	104	108	102	108	276	-
774	86	0.55	50	0.24	32	-0.03	85	110	108	109	105	105	105	100	108	314	SiryX
706	63	0.35	41	0.17	32	0.00	85	109	103	111	100	103	108	100	110	247	SiryX
530	78	0.59	48	0.32	22	-0.02	126	105	102	105	102	101	105	99	107	303	-
426	73	0.59	55	0.43	16	-0.04	128	108	107	105	104	100	110	106	104	288	SiryX
413	45	0.30	39	0.27	14	-0.05	89	109	112	102	100	105	108	103	107	202	-
370	84	0.74	33	0.22	13	-0.04	108	107	103	108	103	107	104	103	102	244	SiryX
78	47	0.49	39	0.41	2	-0.02	81	104	100	105	99	108	106	99	110	263	-
-699	16	0.56	5	0.36	-32	0.00	60	108	106	107	98	105	104	99	103	170	SiryX

097HO42674 ENCOURAGE



ENCOURAGE



DELTA ENCOURAGE
FRAGRANT X TRUST
HONLD000694241286

DOB: **20210707**
aAa: **243165**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AB**

GS: BOMAZ ALTACABOT

GD: -

S: BUSH-BROS FRAGRANT

D: DELTA LOKKE

MGS: LOWLANDS TRUST

MGD: LOWLANDS TRUST

CRV EFFICIENCY 22%			
LONGEVITY 665		FEED EFFICIENCY 112	

PRODUCTION				PRO DAUGHTERS 0 • HERDS 0 • 74% REL			
MILK	1745		SCS		110		
FAT	+113	+0.37%	CFP		209		
PROTEIN	+96	+0.33%	METHANE		-		
LACTOSE	+83	+0.03%	FEED INTAKE		3.03		

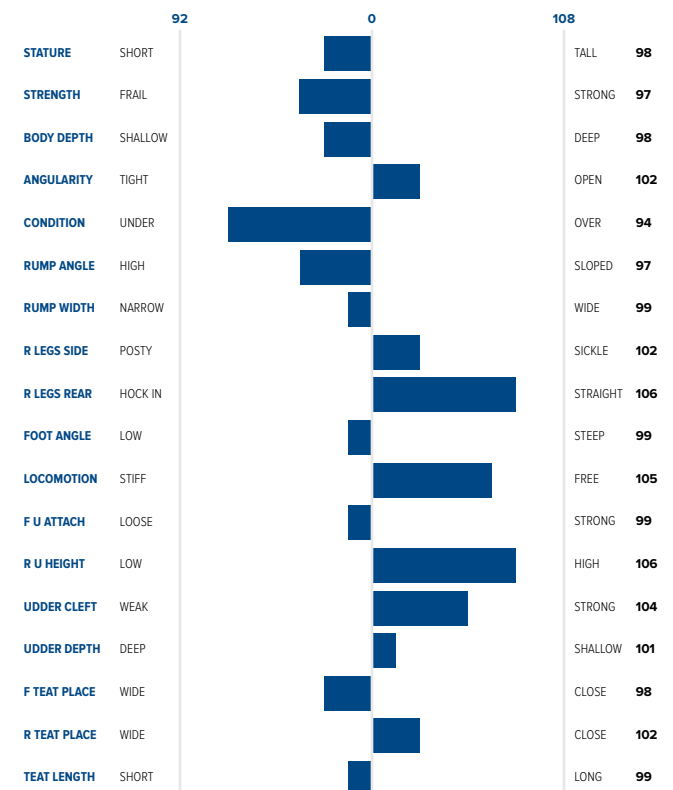
HEALTH TRAITS			
KETOSIS	106	CALF SURVIVAL	103
CLINICAL MASTITIS	104	SUB CLINICAL MASTITIS	106
METRITIS	-	RETAINED PLACENTA	-
TEMP	101	PERS	106

CALVING TRAITS & FERTILITY			
GESTATION LENGTH	-	CALVING INTERVAL	102
BW	97	SCE	105
MCE	104	BIRTH INDEX	108

MILK ROBOT			
ROBOT INDEX	106	ROBOT EFFICIENCY	100
		ROBOT INTERVAL	108

CRV HEALTH 8%			
HOOF HEALTH 107	UDDER HEALTH 105	FERTILITY 103	

INDEX						NVI	415
CONFORMATION						CONF DAUGHTERS 0 • HERDS 0 • 33% REL	
TYPE	104	UDC	103	FLC	105	LOC	105



097HO42525 DOLMEN



DELTA DOLMEN
TOPSTONE X RELEVANT
HONLD000734970583
DOB: **20200922**
aAa: **432516**
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AA**

GRANT D FAY GRANDDAM DOLMEN



DOLMEN

GS: BOMAZ ALTATOPSHOT

GD: DG OH DONNA

S: TOPSTONE

D: DELTA GREET

MGS: RELEVANT

MGD: GRANT D FAY

097HO42640 WARREN P



DELTA WARREN P
WARMOND P RF X NOBEL X
JUPILER
HONLD000577410163
DOB: **20210421**
aAa: **243615**
GFI: **6.7%**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**

WARREN P

GS: DELTA MINGO P

GD: DELTA WARBER

S: WARMOUND P

D: DELTA JOFRID

MGS: DELTA NOBEL

MGD: IPERBURG DELTA JOUKJE

CRV EFFICIENCY 19%	
LONGEVITY 579	FEED EFFICIENCY 110

CRV HEALTH 6%		
HOOF HEALTH 106	UDDER HEALTH 105	FERTILITY 101

PRODUCTION						PRO DAUGHTERS 0 • HERDS 0 • 72% REL					
MILK	1786	FAT	+119	+0.41%	PRO	+71	+0.08%	LACT	+76	-0.05%	
SCS	106	CFP	190		METHANE	-		FEED INTAKE	3.26		

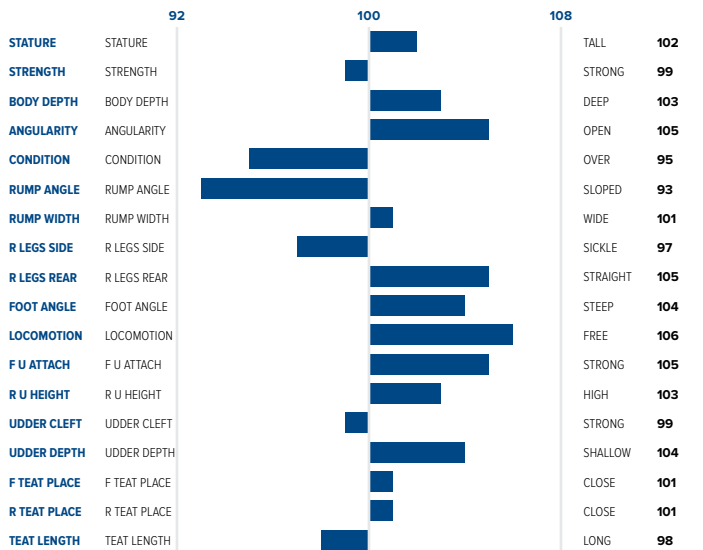
HEALTH TRAITS					
KETOSIS	107	CALF SURVIVAL	101	CL MASTITIS	105
METRITIS	-	RET PLACENTA	-	TEMP	102
				PERS	102

CALVING TRAITS & FERTILITY					
G. LENGTH	95	C. INTERVAL	103	BW	101
SCE	100	MCE	102	BIRTH INDEX	106

MILK ROBOT			
ROBOT INDEX	110	ROBOT EFFICIENCY	108
		ROBOT INTERVAL	102

INDEX				NVI 350
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CONFORMATION						CONF DAUGHTERS 0 • HERDS 0 • 72% REL					
TYPE	105	UDC	104	FLC	106	LOC	106				



CRV EFFICIENCY 20%	
LONGEVITY 402	FEED EFFICIENCY 112

CRV HEALTH 5%		
HOOF HEALTH 108	UDDER HEALTH 103	FERTILITY 106

PRODUCTION						PRO DAUGHTERS 0 • HERDS 0 • 74% REL					
MILK	2202	FAT	+79	-0.13%	PRO	+86	+0.08%	LACT	+97	-0.03%	
SCS	106	CFP	91		METHANE	-		FEED INTAKE	2.47		

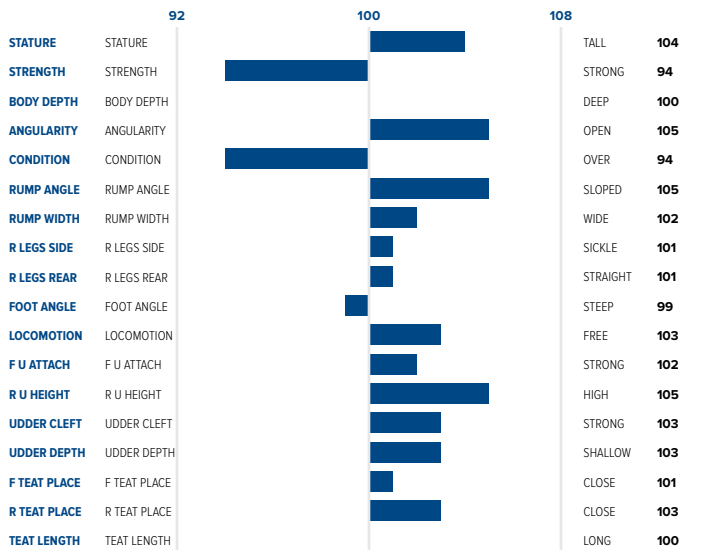
HEALTH TRAITS					
KETOSIS	100	CALF SURVIVAL	100	CL MASTITIS	102
METRITIS	1	RET PLACENTA	-0.1	TEMP	99
				PERS	108

CALVING TRAITS & FERTILITY					
G. LENGTH	-	C. INTERVAL	106	BW	100
SCE	101	MCE	99	BIRTH INDEX	101

MILK ROBOT			
ROBOT INDEX	113	ROBOT EFFICIENCY	108
		ROBOT INTERVAL	109

INDEX				NVI 346
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CONFORMATION						CONF DAUGHTERS 0 • HERDS 0 • 35% REL					
TYPE	103	UDC	104	FLC	102	LOC	103				



097HO42573 **FLAGSTONE**



FLAGSTONE

DELTA FLAGSTONE
TOPSTONE X RELEVANT X
ALTATOPSHOT
HONLD000629932290
DOB: **20210101**
aAa: **432561**
GFI: **0.0%**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**

GS: BOMAZ ALTATOPSHOT
GD: DG OH DONNA
S: TOPSTONE
D: DELTA GREET
MGS: RELEVANT
MGD: DG OH DONNA

CRV EFFICIENCY 18%	
LONGEVITY 588	FEED EFFICIENCY 109

CRV HEALTH 5%		
HOOF HEALTH 106	UDDER HEALTH 106	FERTILITY 103

PRODUCTION						PRO DAUGHTERS 0 • HERDS 0 • 76% REL					
MILK	1581	FAT	+116	+0.47%	PRO	+66	+0.11%	LACT	+76	+0.04%	
SCS	105	CFP	119		METHANE	-		FEED INTAKE	3.14		

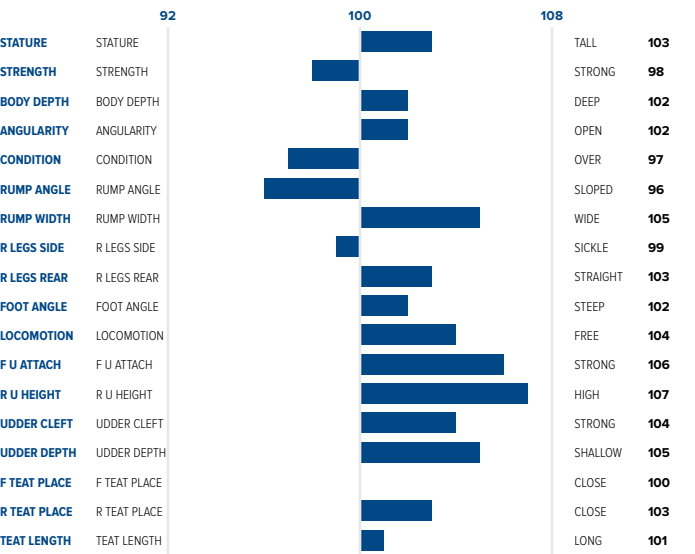
HEALTH TRAITS					
KETOSIS	106	CALF SURVIVAL	100	CL MASTITIS	105
METRITIS	0.7	RET PLACENTA	-0.2	TEMP	100
				PERS	106

CALVING TRAITS & FERTILITY					
G. LENGTH	-	C. INTERVAL	103	BW	105
SCE	95	MCE	103	BIRTH INDEX	104

MILK ROBOT			
ROBOT INDEX	109	ROBOT EFFICIENCY	105
		ROBOT INTERVAL	104

INDEX		NVI	356
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CONFORMATION					CONF DAUGHTERS 0 • HERDS 0 • 37% REL				
TYPE	107	UDC	107	FLC	104	LOC	104		



097HO42498 **LIBERATE**



PEELDIJKE LIESJE 1224, GRANDDAM OF LIBERATE

DELTA LIBERATE
GIGANTIX X RUSH HOUR
HONLD000684554460
DOB: **20200614**
aAa: **342516**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**
RECESSIVES: **TV TR TY TC**
TL TP

GS: BOLDI V GYMNAST
GD: ERINA
S: GIGANTIX
D: PEELDIJKE LIESJE 1323
MGS: DOUBLE W RUSH HOUR
MGD: PEELDIJKE LIESJE 1224

CRV EFFICIENCY 13%	
LONGEVITY 565	FEED EFFICIENCY 105

CRV HEALTH 5%		
HOOF HEALTH 108	UDDER HEALTH 103	FERTILITY 100

PRODUCTION						PRO DAUGHTERS 0 • HERDS 0 • 75% REL					
MILK	1484	FAT	+92	+0.28%	PRO	+76	+0.24%	LACT	+66	-0.02%	
SCS	102	CFP	120		METHANE	-		FEED INTAKE	3.52		

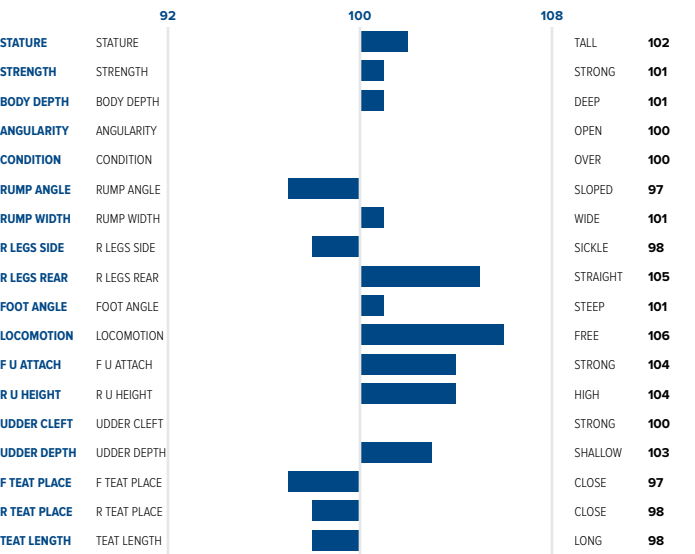
HEALTH TRAITS					
KETOSIS	106	CALF SURVIVAL	100	CL MASTITIS	102
METRITIS	0.2	RET PLACENTA	-0.3	TEMP	104
				PERS	105

CALVING TRAITS & FERTILITY					
G. LENGTH	-	C. INTERVAL	100	BW	96
SCE	104	MCE	98	BIRTH INDEX	104

MILK ROBOT			
ROBOT INDEX	110	ROBOT EFFICIENCY	106
		ROBOT INTERVAL	107

INDEX		NVI	298
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CONFORMATION					CONF DAUGHTERS 0 • HERDS 0 • 35% REL				
TYPE	106	UDC	104	FLC	105	LOC	106		



097HO42700 PREPPER P RC



PREPPER P

DELTA PREPPER P
JAWLINE PP X NOBEL
HONLD000563456386
DOB: **20210830**
aAa: **243165**
BETA CASEIN: **A1A1**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AB**
RECESSIVES: **RC TL TV TC**

GS: DELTA MINGO P
GD: HOANSTER DELTA JOLINA
S: DELTA JAWLINE PP-RED
D: DEKTA LUNAH
MGS: DELTA NOBEL
MGD: DELTA NEXT

CRV EFFICIENCY 16%	
LONGEVITY 491	FEED EFFICIENCY 110

♥ CRV HEALTH 6%		
HOOF HEALTH 104	UDDER HEALTH 102	FERTILITY 105

PRODUCTION				PRO DAUGHTERS 0 • HERDS 0 • 70% REL			
MILK	530	FAT	+78 +0.59%	PRO	+48 +0.32%	LACT	+22 -0.02%
SCS	108	CFP	126	METHANE	-	FEED INTAKE	1.17

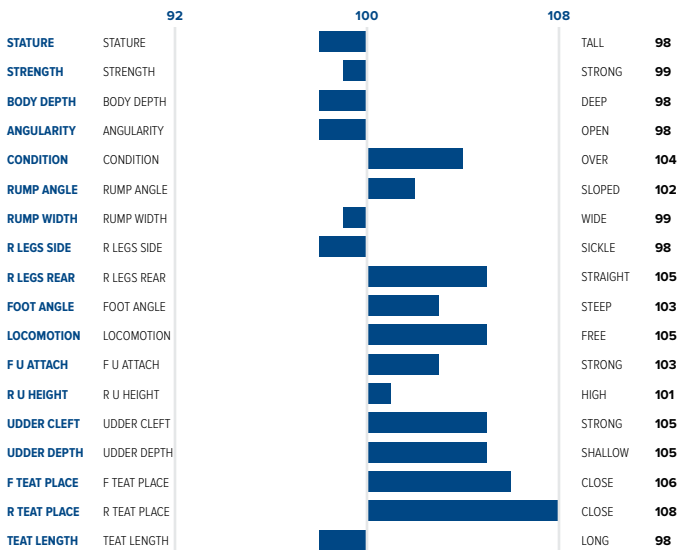
HEALTH TRAITS							
KETOSIS	109	CALF SURVIVAL	104	CL MASTITIS	106	S-CL MASTITIS	108
METRITIS	-	RET PLACENTA	-	TEMP	101	PERS	105

CALVING TRAITS & FERTILITY					
G. LENGTH	101	C. INTERVAL	105	BW	100
SCE	102	MCE	95	BIRTH INDEX	101

MILK ROBOT					
ROBOT INDEX		105	ROBOT EFFICIENCY		99
ROBOT INTERVAL		107			

INDEX	NVI 303				
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 70% REL					
TYPE	105	UDC	102	FLC	105	LOC	105



097HO42543 FAST LANE



FAST LANE

DELTA FAST LANE
REMINGTON X LUSTRUM X
ALTARESERVE
HONLD000542034572
DOB: **20201101**
aAa: **243615**
GFI: **0.0%**
BETA CASEIN: **A1A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**
RECESSIVES: **TP TV TR TC TL**

GS: WELCOME ALTARESERVE ET
GD: PINE-TREE SIRIUS ET
S: PEAK REMINGTON
D: DELTA MAAN
MGS: DELTA LUSTRUM
MGD: WILDER MONCHERRY

CRV EFFICIENCY 14%	
LONGEVITY 560	FEED EFFICIENCY 107

♥ CRV HEALTH 6%		
HOOF HEALTH 106	UDDER HEALTH 103	FERTILITY 105

PRODUCTION				PRO DAUGHTERS 0 • HERDS 0 • 76% REL			
MILK	774	FAT	+86 +0.55%	PRO	+50 +0.24%	LACT	+32 -0.03%
SCS	107	CFP	85	METHANE	-	FEED INTAKE	2.01

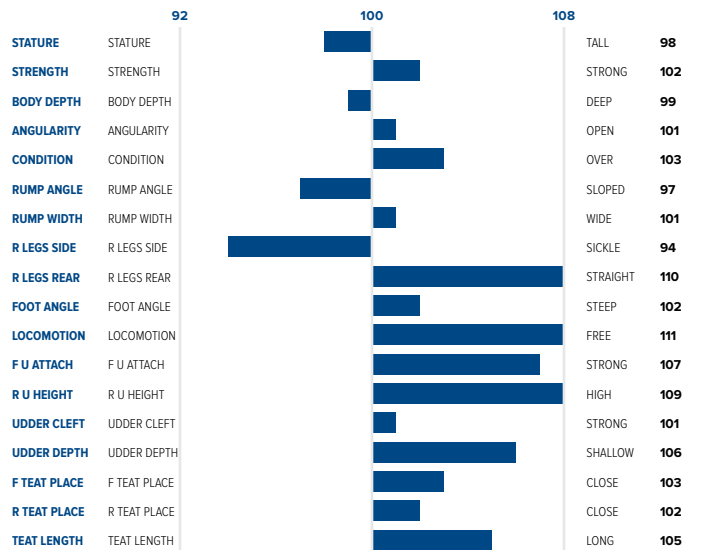
HEALTH TRAITS							
KETOSIS	104	CALF SURVIVAL	97	CL MASTITIS	102	S-CL MASTITIS	103
METRITIS	0.5	RET PLACENTA	-0.6	TEMP	102	PERS	103

CALVING TRAITS & FERTILITY						
G. LENGTH		-	C. INTERVAL	103	BW	97
SCE		105	MCE	103	BIRTH INDEX	105

MILK ROBOT					
ROBOT INDEX		105	ROBOT EFFICIENCY		100
			ROBOT INTERVAL		108

INDEX	NVI 314				
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 39% REL					
TYPE	110	UDC	108	FLC	109	LOC	111



097HO42387 **ENDLESS RF RC**



ENDLESS RF RC

ENDLESS RF
JACUZZI X FINDER
HONLD000605074718
DOB: **20190520**
aAa: **243165**
97% RHA
BETA CASEIN: **A1A1**
KAPPA CASEIN: **EE**
LACTOGLOBULIN: **BB**
RECESSIVES: **RC**

GS: HET MEER LIVINGTON
GD: OVERSTICHT DELTA JINA
S: JACUZZI-RED
D: DELTA ELLEEN
MGS: BOUW FINDER
MGD: WEELDER ESMONIQUE 62

CRV EFFICIENCY 12%	
LONGEVITY 406	FEED EFFICIENCY 105

CRV HEALTH 7%		
HOOF HEALTH 107	UDDER HEALTH 105	FERTILITY 103

PRODUCTION						PRO DAUGHTERS 0 • HERDS 0 • 76% REL	
MILK	793	FAT	+115	+0.84%	PRO	+48	+0.21%
SCS	108	CFP	163	METHANE	-	FEED INTAKE	3.15

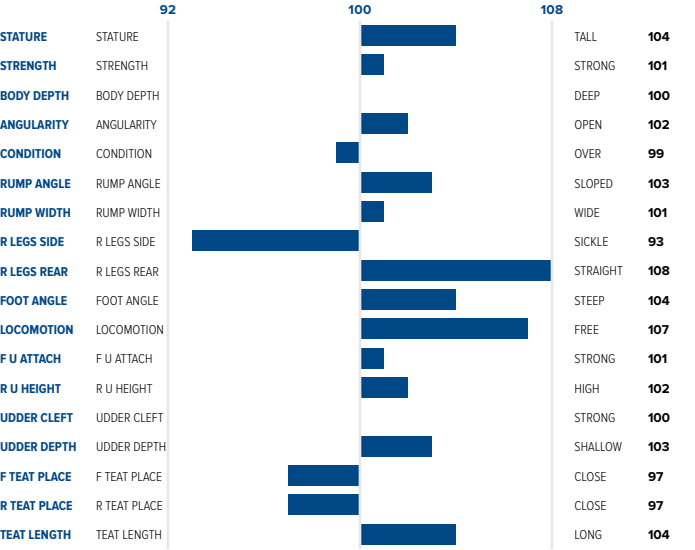
HEALTH TRAITS			
KETOSIS	101	CALF SURVIVAL	103
METRITIS	-	RET PLACENTA	-

CALVING TRAITS & FERTILITY			
G. LENGTH	-	C. INTERVAL	103
SCE	101	MCE	107

MILK ROBOT			
ROBOT INDEX	106	ROBOT EFFICIENCY	101
		ROBOT INTERVAL	106

INDEX		NVI 297
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 46% REL					
TYPE	105	UDC	102	FLC	105	LOC	107



097HO42511 **FAIR PLAY**



W. VERWEIJ, BLIJHAM, 5TH DAM OF FAIR PLAY P

DELTA FAIR PLAY P
WOODY X SUNFIT P
HOCZE000064191256
DOB: **20200822**
aAa: **324165**
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AB**

GS: RANGER
GD: RITA 1626A
S: WOODY
D: DELTA BRACHA P
MGS: SUNFIT P
MGD: DELTA BELLE

CRV EFFICIENCY 12%	
LONGEVITY 546	FEED EFFICIENCY 105

CRV HEALTH 4%		
HOOF HEALTH 105	UDDER HEALTH 107	FERTILITY 99

PRODUCTION						PRO DAUGHTERS 0 • HERDS 0 • 71% REL	
MILK	1107	FAT	+65	+0.18%	PRO	+56	+0.18%
SCS	113	CFP	121	METHANE	-	FEED INTAKE	2.26

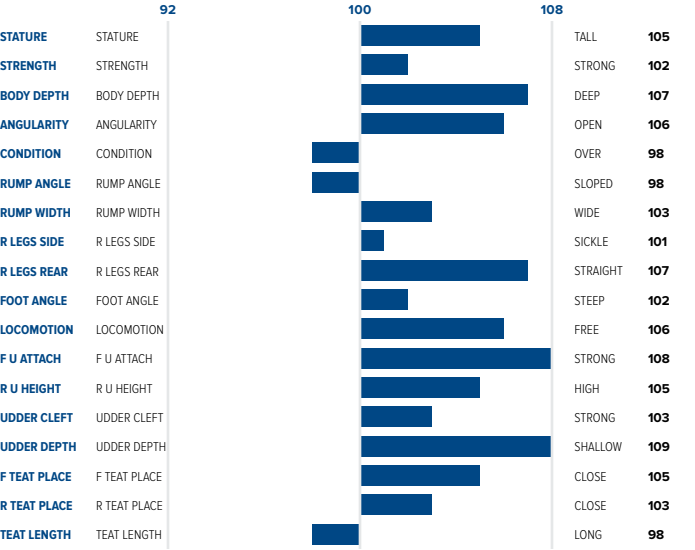
HEALTH TRAITS			
KETOSIS	102	CALF SURVIVAL	105
METRITIS	-	RET PLACENTA	-

CALVING TRAITS & FERTILITY			
G. LENGTH	101	C. INTERVAL	102
SCE	98	MCE	103

MILK ROBOT			
ROBOT INDEX	107	ROBOT EFFICIENCY	101
		ROBOT INTERVAL	108

INDEX		NVI 267
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 72% REL					
TYPE	110	UDC	108	FLC	107	LOC	106



097HO42540 VULCANO P



DELTA VULCANO P
NIPPON P X TRUST
HONLD000894523726
DOB: **20201113**
aAa: **234165**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AB**

VULCANO P

GS: WILDER HOTSPOT P

GD: DELTA NADINE

S: NIPPON P

D: DELTA LOKKE

MGS: LOWLANDS TRUST

MGD: DELTA LAURIN

097HO42563 THERAPY



DELTA THERAPY
LAWRENCE X NOBEL
HONLD000726314324
DOB: **20210102**
aAa: **243615**
GFI: **0.00%**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **BB**

IPERBURG DELTA JOURKJE, MGD OF THERAPY

GS: LOWLANDS TRUST

GD: DELTA LAURIN

S: LAWRENCE

D: DELTA JOFRID

MGS: NOBEL

MGD: DELTA LAURIN

CRV EFFICIENCY 14%	
LONGEVITY 539	FEED EFFICIENCY 107

CRV HEALTH 7%		
HOOF HEALTH 108	UDDER HEALTH 106	FERTILITY 103

PRODUCTION		PRO DAUGHTERS 0 • HERDS 0 • 70% REL			
MILK	1055	FAT +66	+0.21%	PRO +70	+0.34%
SCS	108	CFP	136	METHANE	-
				FEED INTAKE	2.12

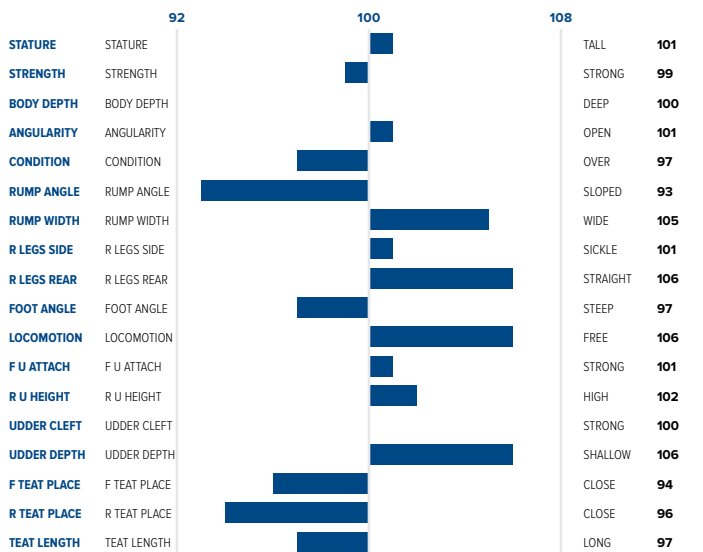
HEALTH TRAITS		PRO DAUGHTERS 0 • HERDS 0 • 70% REL			
KETOSIS	105	CALF SURVIVAL	104	CL MASTITIS	105
METRITIS	-	RET PLACENTA	-	TEMP	102
				PERS	105

CALVING TRAITS & FERTILITY		PRO DAUGHTERS 0 • HERDS 0 • 70% REL			
G. LENGTH	103	C. INTERVAL	103	BW	98
SCE	104	MCE	98	BIRTH INDEX	100

MILK ROBOT		PRO DAUGHTERS 0 • HERDS 0 • 70% REL			
ROBOT INDEX	110	ROBOT EFFICIENCY	106	ROBOT INTERVAL	104

INDEX		NVI 316			
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 70% REL			
TYPE	106	UDC	103	FLC	106
		LOC	106		



CRV EFFICIENCY 13%	
LONGEVITY 546	FEED EFFICIENCY 107

CRV HEALTH 8%		
HOOF HEALTH 109	UDDER HEALTH 105	FERTILITY 103

PRODUCTION		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
MILK	977	FAT +40	-0.01%	PRO +51	+0.17%
SCS	109	CFP	91	METHANE	-
				FEED INTAKE	1.11

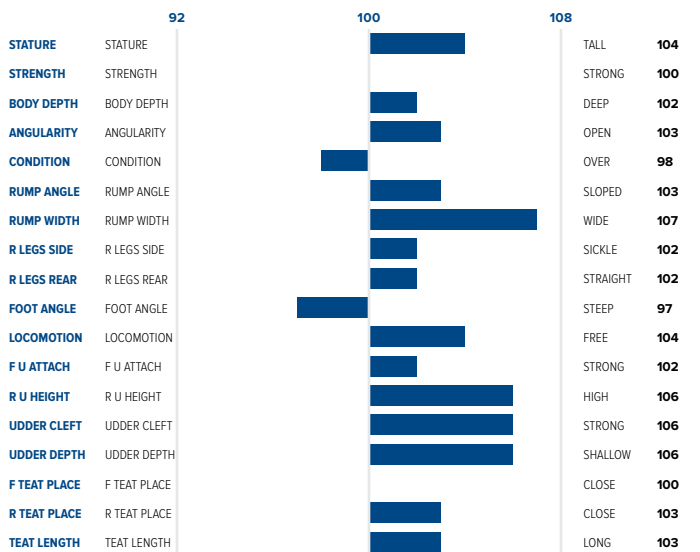
HEALTH TRAITS		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
KETOSIS	109	CALF SURVIVAL	104	CL MASTITIS	102
METRITIS	-	RET PLACENTA	-	TEMP	102
				PERS	106

CALVING TRAITS & FERTILITY		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
G. LENGTH	-	C. INTERVAL	105	BW	97
SCE	104	MCE	102	BIRTH INDEX	107

MILK ROBOT		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
ROBOT INDEX	106	ROBOT EFFICIENCY	100	ROBOT INTERVAL	108

INDEX		NVI 275			
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 37% REL			
TYPE	107	UDC	106	FLC	103
		LOC	104		



097HO42546 LIXOR



LIXOR

DELTA LIXOR
NIPPON P X RUSH HOUR
HONLD000737504587
DOB: **20201031**
aAa: **324156**
BETA CASEIN: **A1A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AA**

GS: WILDER HOTSPOT P

GD: DELTA NADINE

S: DELTA NIPPON P

D: PEELDIKER LIESJE 1323

MGS: DOUBLE W RUSH HOUR

MGD: PEELDIKER LIES

CRV EFFICIENCY 8%	
LONGEVITY 607	FEED EFFICIENCY 100

CRV HEALTH 5%		
HOOF HEALTH 107	UDDER HEALTH 107	FERTILITY 105

PRODUCTION		PRO DAUGHTERS 0 • HERDS 0 • 70% REL			
MILK	426	FAT +73	+0.59%	PRO +55	+0.43%
SCS	109	CFP	128	METHANE	-
				FEED INTAKE	2.93

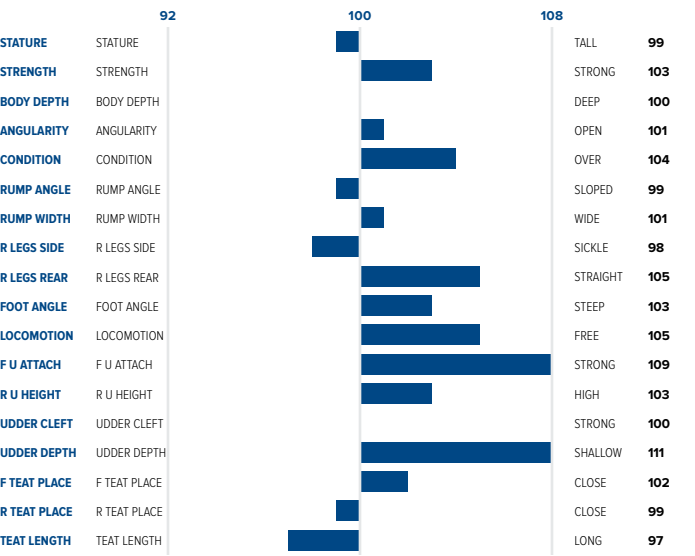
HEALTH TRAITS					
KETOSIS	103	CALF SURVIVAL	94	CL MASTITIS	105
METRITIS	-	RET PLACENTA	-	TEMP	104
				PERS	105

CALVING TRAITS & FERTILITY					
G. LENGTH	92	C. INTERVAL	105	BW	96
SCE	104	MCE	98	BIRTH INDEX	100

MILK ROBOT					
ROBOT INDEX	110	ROBOT EFFICIENCY	106	ROBOT INTERVAL	104

INDEX				NVI 288	
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • - REL			
TYPE	108	UDC	107	FLC	105
				LOC	105



097HO42663 CHEESE*RC



CHEESE RF

DELTA CHEESE
LIFESAVER-RED X LARRY
HONLD000743789044
DOB: **20210531**
aAa: **234165**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AB**
RECESSIVES: **RC**

GS: DELTA ELIXER-RED

GD: CAUDUMER LOL 342

S: LIFESAVER-RED

D: DELTA TERSKA

MGS: DELTA LARRY

MGD: LARRY

CRV EFFICIENCY 7%	
LONGEVITY 587	FEED EFFICIENCY 101

CRV HEALTH 10%		
HOOF HEALTH 108	UDDER HEALTH 105	FERTILITY 108

PRODUCTION		PRO DAUGHTERS 0 • HERDS 0 • 74% REL			
MILK	78	FAT +47	+0.49%	PRO +39	+0.41%
SCS	102	CFP	81	METHANE	-
				FEED INTAKE	1.68

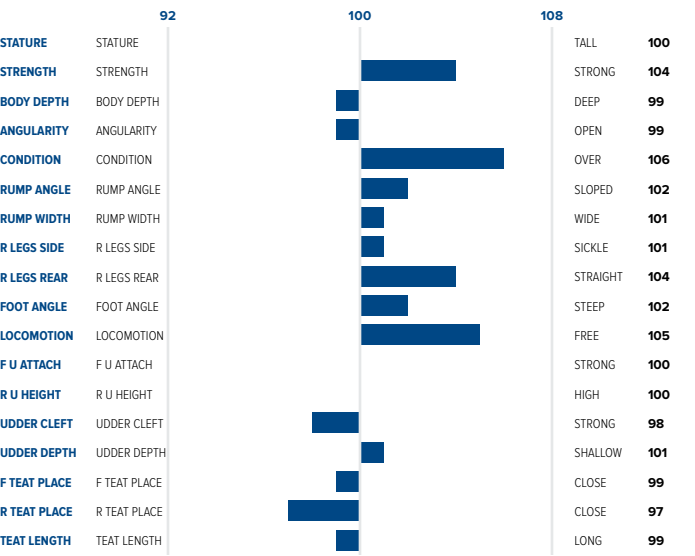
HEALTH TRAITS					
KETOSIS	109	CALF SURVIVAL	105	CL MASTITIS	104
METRITIS	2	RET PLACENTA	0.8	TEMP	101
				PERS	108

CALVING TRAITS & FERTILITY					
G. LENGTH	-	C. INTERVAL	107	BW	100
SCE	99	MCE	110	BIRTH INDEX	108

MILK ROBOT					
ROBOT INDEX	106	ROBOT EFFICIENCY	99	ROBOT INTERVAL	110

INDEX				NVI 263	
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 35% REL			
TYPE	104	UDC	100	FLC	105
				LOC	105



097HO42501 PERFECT



DELTA PAULINA, MGGD OF PERFECT

DELTA PERFECT
WOODY X JAFIN
HONLD000632215609
DOB: **20200604**
aAa: **345261**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**
RECESSIVES: **TV TC TR TP**
TL TY

GS: DOUBLE W RANGER
GD: WILLEM'S-HOEVE RITA 1626A

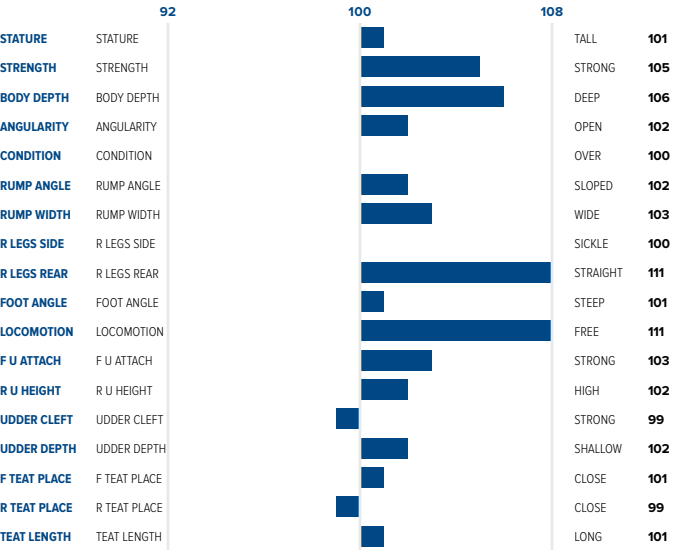
S: WILLEM'S-HOEVE WOODY
D: DELTA PIEN

MGS: DELTA JAFIN
MGD: VANDENBERG DELTA PIPi



PERFECT

CRV EFFICIENCY 9%					
LONGEVITY 457			FEED EFFICIENCY 104		
♥ CRV HEALTH 5%					
HOOF HEALTH 107		UDDER HEALTH 107		FERTILITY 100	
PRODUCTION			PRO DAUGHTERS 0 • HERDS 0 • 76% REL		
MILK	706	FAT	+63 +0.35%	PRO	+41 +0.17%
SCS	110	CFP	85	LACT	+32 0.00%
		METHANE		FEED INTAKE 1.97	
HEALTH TRAITS					
KETOSIS	104	CALF SURVIVAL	103	CL MASTITIS	105
METRITIS	0.5	RET PLACENTA	0.3	S-CL MASTITIS	107
		TEMP		PERS 103	
CALVING TRAITS & FERTILITY					
G. LENGTH	-	C. INTERVAL	101	BW	100
SCE	100	MCE	102	BIRTH INDEX	103
MILK ROBOT					
ROBOT INDEX	108	ROBOT EFFICIENCY	100	ROBOT INTERVAL	110
INDEX NVI 247					
CONFORMATION			CONF DAUGHTERS 0 • HERDS 0 • 41% REL		
TYPE	109	UDC	103	FLC	111
		LOC		111	



097HO42134 STARMAKER



DAM OF STARMATE

VELDER STARMAKER
ADORABLE X MOBILE
HONLD000565113832
DOB: **20180225**
aAa: **234156**
95% RHA
GFI: **0.0%**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AB**
RECESSIVES: **TY TC TV TL TR**

GS: COGENT SUPERSHOT
GD: STANTONS MCCUTCHEN 1174 AGREE

S: STANTONS ADORABLE
D: JET 155

MGS: BUISWEERD MOBILE
MGD: JET 127



STARMATE

CRV EFFICIENCY 1%

LONGEVITY 402

FEED EFFICIENCY 98

CRV HEALTH 7%

HOOF HEALTH 107

UDDER HEALTH 107

FERTILITY 105

PRODUCTION

PRO DAUGHTERS 305 • HERDS 148 • 92% REL

MILK-699

FAT+16

+0.56%

PRO+5

+36%

LACT-32

0.00%

SCS107

CFP60

METHANE-

FEED INTAKE0.38

HEALTH TRAITS

KETOSIS105

CALF SURVIVAL101

CL MASTITIS105

S-CL MASTITIS107

METRITIS1.1

RET PLACENTA0.1

TEMP107

PERS102

CALVING TRAITS & FERTILITY

G. LENGTH-

C. INTERVAL107

BW104

SCE98

MCE105

BIRTH INDEX105

MILK ROBOT

ROBOT INDEX104

ROBOT EFFICIENCY99

ROBOT INTERVAL103

INDEX

NVI 170

CONFORMATION

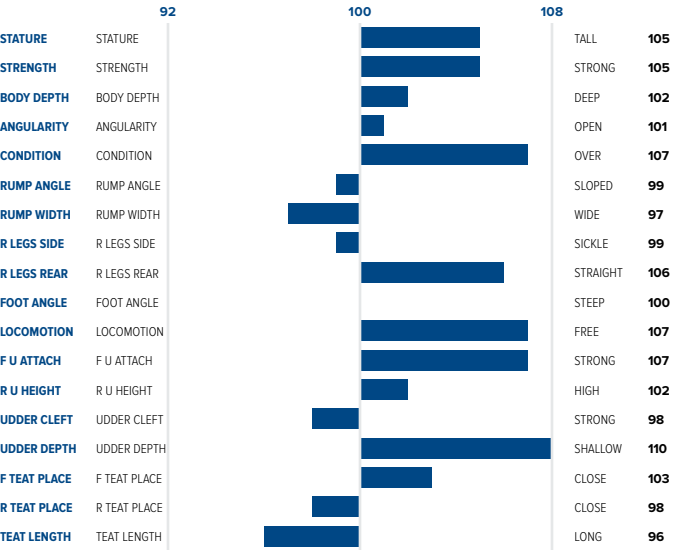
CONF DAUGHTERS 305 • HERDS 148 • 70% REL

TYPE108

UDC106

FLC107

LOC107



097HO42461 BELIEVER



BELDA 1, DAM OF BELIEVER



BELIEVER

LOWLANDS BELIEVER
LUNAR X ALTATOPSHOT
HONLD000589817592
DOB: **20191022**
aAa: **243165**
98% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AA**

GS: PEAK CHUCK
GD: COVICK DELTA LORIN
S: DELTA LUNAR
D: BELDA 1
MGS: BOMAZ ALTATOPSHOT
MGD: DELTA BABETJE 1

CRV EFFICIENCY 13%	
LONGEVITY 350	FEED EFFICIENCY 106

CRV HEALTH 6%		
HOOF HEALTH 105	UDDER HEALTH 100	FERTILITY 103

PRODUCTION						PRO DAUGHTERS 0 • HERDS 0 • 76% REL	
MILK	1114	FAT	+84	+0.37%	PRO	+51	+0.12%
SCS	102	CFP	115	METHANE	-	FEED INTAKE	2.48

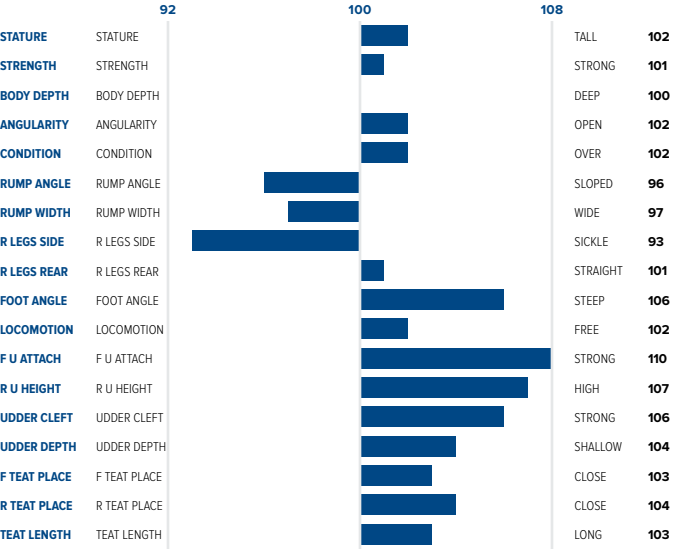
HEALTH TRAITS			
KETOSIS	107	CALF SURVIVAL	106
METRITIS	2	RET PLACENTA	0.3
CL MASTITIS	100	TEMP	102
S-CL MASTITIS	101	PERS	105

CALVING TRAITS & FERTILITY			
G. LENGTH	-	C. INTERVAL	103
SCE	103	MCE	103
BW	98	BIRTH INDEX	105

MILK ROBOT			
ROBOT INDEX	103	ROBOT EFFICIENCY	101
ROBOT INTERVAL	104		

INDEX		NVI 243
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 47% REL					
TYPE	106	UDC	109	FLC	100	LOC	102



097HO42467 LUCARDI



DELTA LAURIN, GRANDDAM OF LUCARDI



LUCARDI

DELTA LUCARDI
YES X TRUST
HONLD000590972910
DOB: **20200523**
aAa: **432156**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AA**
LACTOGLOBULIN: **AB**
RECESSIONS: **TP TR TC TY**
TL TV

GS: DOUBLE W RANGER
GD: DELTA JARA 1
S: DELTA YES
D: DELTA LUTSKE
MGS: LOWLANDS TRUST
MGD: DELTA LAURIN

CRV EFFICIENCY 13%	
LONGEVITY 323	FEED EFFICIENCY 107

CRV HEALTH 3%		
HOOF HEALTH 106	UDDER HEALTH 103	FERTILITY 100

PRODUCTION						PRO DAUGHTERS 0 • HERDS 0 • 75% REL	
MILK	866	FAT	+97	+0.62%	PRO	+56	+0.27%
SCS	105	CFP	108	METHANE	-	FEED INTAKE	2.59

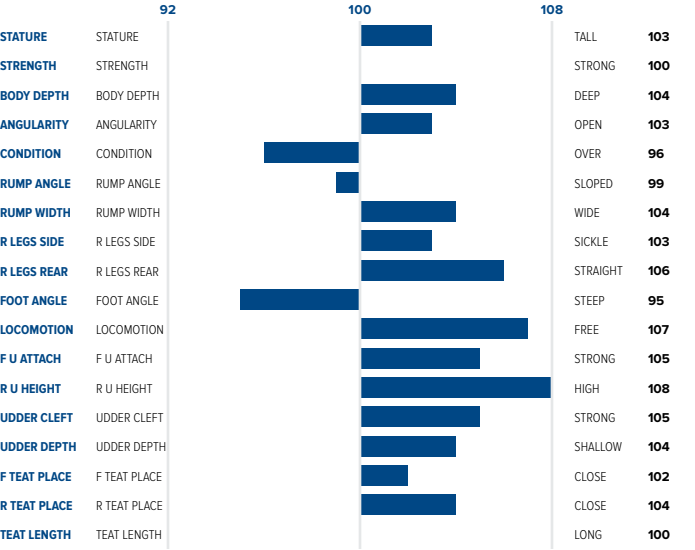
HEALTH TRAITS			
KETOSIS	103	CALF SURVIVAL	98
METRITIS	0.1	RET PLACENTA	-0.5
CL MASTITIS	102	TEMP	102
S-CL MASTITIS	103	PERS	102

CALVING TRAITS & FERTILITY			
G. LENGTH	-	C. INTERVAL	101
SCE	104	MCE	101
BW	97	BIRTH INDEX	101

MILK ROBOT			
ROBOT INDEX	104	ROBOT EFFICIENCY 100	ROBOT INTERVAL 105

INDEX		NVI 260
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 39% REL					
TYPE	109	UDC	107	FLC	106	LOC	107



097HO42551 PINEAPPLE P POLLED



PINEAPPLE P

DELTA PINEAPPLE P
NIPPON P X WATERLOO X
HOTSPOT P
HONLD000692183669
DOB: **20201026**
aAa: **354126**
GFI: **0.0%**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**

GS: WILDER HOTSPOT P

GD: LIN-HORST DELTA NADINE

S: DELTA NIPPON P

D: DELTA JILKE

MGS: DELTA WATERLOO

MGD: DELTA JOSEY

097HO42575 FOSTER PP POLLED



DELTA JODIE DAM FOSTER PP

DELTA FOSTER PP
NIPPON P X TRUST X
HOTSPOT P
HONLD000658239214
DOB: **20201223**
aAa: **234165**
GFI: **0.0%**
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AA**
RECESSIVES: **TR TV TL TC**
PP TY

GS: WILDER HOTSPOT P

GD: LIN-HORST DELTA NADINE

S: DELTA NIPPON P

D: DELTA JODIE

MGS: LOWLANDS TRUST

MGD: HOANSTER DELTA JOLINA

CRV EFFICIENCY 12%	
LONGEVITY 447	FEED EFFICIENCY 105

CRV HEALTH 6%		
HOOF HEALTH 106	UDDER HEALTH 105	FERTILITY 108

PRODUCTION		PRO DAUGHTERS 0 • HERDS 0 • 75% REL					
MILK	802	FAT	+55	+0.22%	PRO	+43	+0.16%
SCS	107	CFP	73	METHANE	-	FEED INTAKE	1.56

HEALTH TRAITS		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
KETOSIS	105	CALF SURVIVAL	99	CL MASTITIS	103
METRITIS	1	RET PLACENTA	-0.1	TEMP	101

CALVING TRAITS & FERTILITY		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
G. LENGTH	-	C. INTERVAL	110	BW	95
SCE	105	MCE	103	BIRTH INDEX	100

MILK ROBOT		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
ROBOT INDEX	107	ROBOT EFFICIENCY	102	ROBOT INTERVAL	106

INDEX		NVI 270			
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 40% REL			
TYPE	105	UDC	105	FLC	105
		LOC	106		

STATURE	92	100	108	TALL	96
STRENGTH				STRONG	101
BODY DEPTH				DEEP	99
ANGULARITY				OPEN	98
CONDITION				OVER	100
RUMP ANGLE				SLOPED	99
RUMP WIDTH				WIDE	99
R LEGS SIDE				SICKLE	99
R LEGS REAR				STRAIGHT	104
FOOT ANGLE				STEEP	96
LOCOMOTION				FREE	106
F U ATTACH				STRONG	106
R U HEIGHT				HIGH	103
UDDER CLEFT				STRONG	103
UDDER DEPTH				SHALLOW	106
F TEAT PLACE				CLOSE	102
R TEAT PLACE				CLOSE	104
TEAT LENGTH				LONG	101

CRV EFFICIENCY 11%	
LONGEVITY 330	FEED EFFICIENCY 105

CRV HEALTH 6%		
HOOF HEALTH 103	UDDER HEALTH 105	FERTILITY 108

PRODUCTION		PRO DAUGHTERS 0 • HERDS 0 • 75% REL					
MILK	780	FAT	+68	+0.36%	PRO	+54	+0.28%
SCS	105	CFP	78	METHANE	-	FEED INTAKE	2.03

HEALTH TRAITS		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
KETOSIS	104	CALF SURVIVAL	101	CL MASTITIS	102
METRITIS	1	RET PLACENTA	-0.1	TEMP	104

CALVING TRAITS & FERTILITY		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
G. LENGTH	-	C. INTERVAL	108	BW	96
SCE	104	MCE	106	BIRTH INDEX	104

MILK ROBOT		PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
ROBOT INDEX	108	ROBOT EFFICIENCY	102	ROBOT INTERVAL	108

INDEX		NVI 276			
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CONFORMATION		CONF DAUGHTERS 0 • HERDS 0 • 38% REL			
TYPE	103	UDC	105	FLC	102
		LOC	102		

STATURE	92	100	108	TALL	102
STRENGTH				STRONG	97
BODY DEPTH				DEEP	95
ANGULARITY				OPEN	99
CONDITION				OVER	100
RUMP ANGLE				SLOPED	104
RUMP WIDTH				WIDE	100
R LEGS SIDE				SICKLE	103
R LEGS REAR				STRAIGHT	102
FOOT ANGLE				STEEP	97
LOCOMOTION				FREE	102
F U ATTACH				STRONG	107
R U HEIGHT				HIGH	103
UDDER CLEFT				STRONG	98
UDDER DEPTH				SHALLOW	110
F TEAT PLACE				CLOSE	96
R TEAT PLACE				CLOSE	99
TEAT LENGTH				LONG	107

097HO42396 **EVERTON**



DELTA EVELYN, DAM OF EVERTON



EVERTON

DELTA EVERTON
E PROFIT X JORBEN
HONLD000933631935
DOB: **20191107**
aAa: **345216**
97% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **BB**
LACTOGLOBULIN: **AA**

GS: DELTA MAGISTER
GD: DE LEENHORST INEKE 130
S: DE LEENHORST E PROFIT
D: DELTA EVELYN
MGS: NEWHOUSE JORBEN
MGD: SIENTJE 62

CRV EFFICIENCY 8%	
LONGEVITY 308	FEED EFFICIENCY 104

CRV HEALTH 6%		
HOOF HEALTH 103	UDDER HEALTH 106	FERTILITY 100

PRODUCTION				PRO DAUGHTERS 0 • HERDS 0 • 76% REL			
MILK	413	FAT	+45 +0.30%	PRO	+39 +0.27%	LACT	+14 -0.05%
SCS	104	CFP	89	METHANE	-	FEED INTAKE	1.31

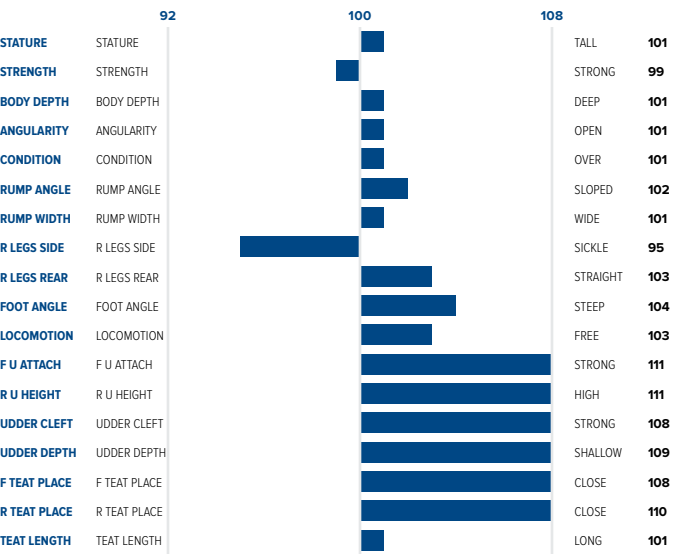
HEALTH TRAITS							
KETOSIS	112	CALF SURVIVAL	104	CL MASTITIS	105	S-CL MASTITIS	106
METRITIS	0.7	RET PLACENTA	-0.1	TEMP	99	PERS	106

CALVING TRAITS & FERTILITY						
G. LENGTH		-	C. INTERVAL	102	BW	101
SCE		100	MCE	104	BIRTH INDEX	105

MILK ROBOT					
ROBOT INDEX		108	ROBOT EFFICIENCY		103
			ROBOT INTERVAL		107

INDEX		NVI 202
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CONFORMATION				CONF DAUGHTERS 0 • HERDS 0 • 46% REL			
TYPE	109	UDC	112	FLC	102	LOC	103



097HO42402 **XANDER**



XANDER

DELTA XANDER
FLORIS X BEATBOX
HONLD000614974395
DOB: **20191202**
aAa: **423561**
99% RHA
BETA CASEIN: **A1A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AB**

GS: WEELDER EMPIRE
GD: GRANT D FAY
S: DELTA FLORIS
D: DELTA XANNE
MGS: DELTA BEATBOX
MGD: BUITENEIND JK- EDER XENIA

CRV EFFICIENCY 11%	
LONGEVITY 338	FEED EFFICIENCY 105

CRV HEALTH 6%		
HOOF HEALTH 108	UDDER HEALTH 100	FERTILITY 105

PRODUCTION				PRO DAUGHTERS 0 • HERDS 0 • 75% REL			
MILK	370	FAT	+84 +0.74%	PRO	+33 +0.22%	LACT	+13 -0.04%
SCS	102	CFP	108	METHANE	-	FEED INTAKE	1.91

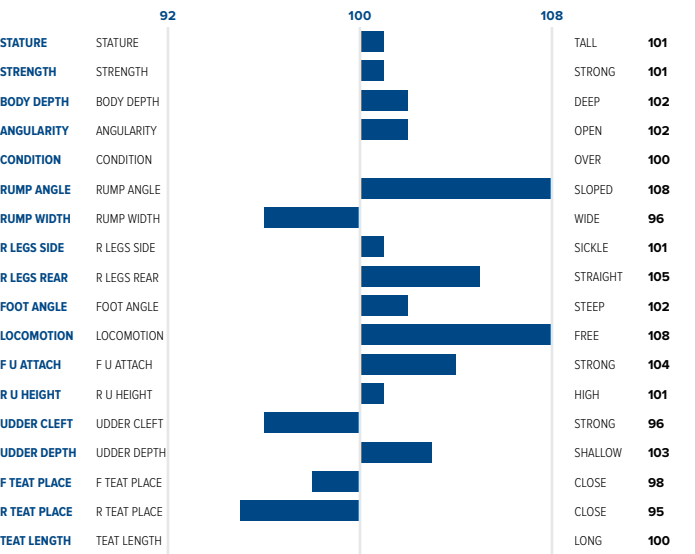
HEALTH TRAITS							
KETOSIS	98	CALF SURVIVAL	106	CL MASTITIS	99	S-CL MASTITIS	101
METRITIS	1.1	RET PLACENTA	-0.3	TEMP	100	PERS	103

CALVING TRAITS & FERTILITY						
G. LENGTH		-	C. INTERVAL	104	BW	98
SCE		103	MCE	101	BIRTH INDEX	107

MILK ROBOT					
ROBOT INDEX		104	ROBOT EFFICIENCY		103
			ROBOT INTERVAL		102

INDEX		NVI 244
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CONFORMATION				CONF DAUGHTERS 0 • HERDS 0 • 41% REL			
TYPE	107	UDC	103	FLC	108	LOC	108



097HO42175 **WOODY**



WILLEM'S-HOEVE RITA 1626A, DAM OF WOODY



WILLEM'S-HOEVE WOODY

RANGER X JETSET
HONLD000965020507

DOB: **20180727**
aAa: **321456**
99% RHA
BETA CASEIN: **A2A2**
KAPPA CASEIN: **AB**
LACTOGLOBULIN: **AB**
RECESSIVES: **TL TY TV TC TR**



WOODY

GS: S-S-I MOGUL REFLECTOR

GD: DOUBLE W RICKY 8

S: DOUBLE W RANGER

D: WILLEM'S HOEVE RITA 1626A

MGS: JETSET

MGD: WILLEM'S-HOEVE RITA 1162

CRV EFFICIENCY 13%			
LONGEVITY 453		FEED EFFICIENCY 108	

PRODUCTION				PRO DAUGHTERS 488 • HERDS 253 • 91% REL	
MILK		1809	SCS		110
FAT	+89	+0.12%	CFP		106
PROTEIN	+67	+0.04%	METHANE		-
LACTOSE	+93	+0.10%	FEED INTAKE		2.99

HEALTH TRAITS			
KETOSIS	99	CALF SURVIVAL	98
CLINICAL MASTITIS	105	SUB CLINICAL MASTITIS	104
METRITIS	0.3	RETAINED PLACENTA	0.1
TEMP	102	PERS	97

CALVING TRAITS & FERTILITY			
GESTATION LENGTH	-	CALVING INTERVAL	97
BW	99	SCE	101
MCE	103	BIRTH INDEX	102

MILK ROBOT			
ROBOT INDEX	93	ROBOT EFFICIENCY	96
		ROBOT INTERVAL	102

CRV HEALTH 3%			
HOOF HEALTH 105	UDDER HEALTH 105	FERTILITY 96	

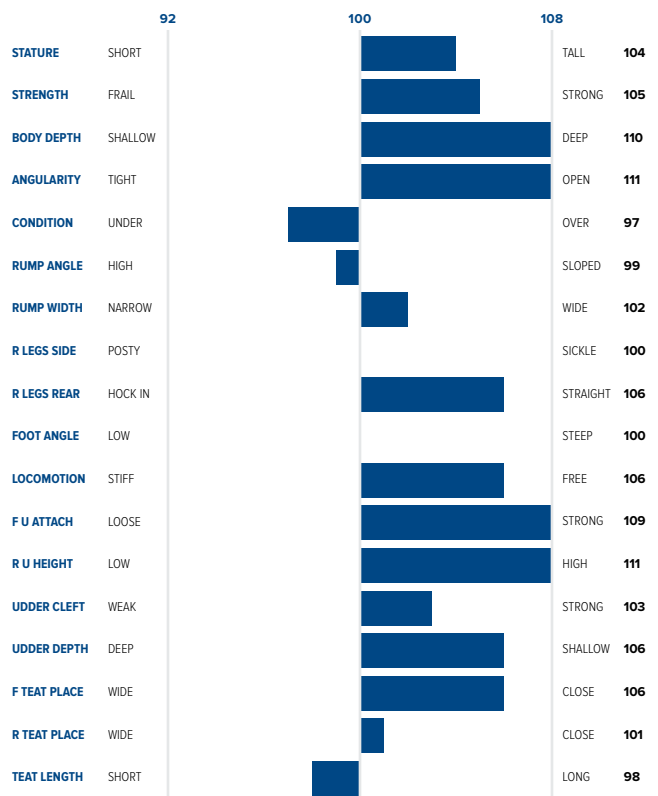
INDEX

NVI 279

CONFORMATION

CONF DAUGHTERS 492 • HERDS 253 • 76% REL

TYPE	111	UDC	111	FLC	106	LOC	106
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Holstein Trait Explanations

CRV Herdbuilder Traits

In addition to the traditional U.S. traits we've become accustomed to, CRV brings you more than 20 additional proprietary traits and we call them our HerdBuilder Traits. These include traits such as the CRV Health and CRV Efficiency indexes. Look for the HerdBuilder Traits throughout this directory.



HEALTH

CRV HEALTH - CRV Health indicates the extent to which a bull helps breed a healthier herd. A high score means that a bull's progeny will have reduced rates of mastitis and lameness, will calve easier and breed back sooner. A combination of nearly 60 traits produce this breeding value.

Udder Health - Udder health is an index calculated through mastitis and subclinical mastitis cases, in combination with routinely collected SCC expressions.

Clinical Mastitis - Direct breeding value for mastitis. Breeding value of 104 on a bull leads to daughters experiencing 4.0% lifetime lower incidence of mastitis.

Subclinical Mastitis - Direct breeding value for subclinical mastitis. Breeding value of 104 on a bull leads to daughters experiencing 4.0% lifetime lower incidence of mastitis.

Hoof Health - Hoof health is a measure of the frequency of hoof issues that an animal will experience using 12 hoof traits and 6 hoof disorders to calculate. The higher the score, the less hoof issues a cow will have.

Fertility - Fertility is made up of non-return rate, interval between first and last insemination, calving interval and 34 other fertility indicators. A higher score indicates a more fertile cow.



EFFICIENCY

CRV EFFICIENCY - CRV Efficiency indicates the extent to which a bull contributes to a more efficient herd. Improved milk and component production relative to feed intake while accounting for longevity, body condition, and calving interval.

Longevity - High longevity means less culling, lower rearing costs and above all, higher lifetime yields. The average score for longevity is 0 and is expressed in days.

Feed Efficiency - A measure of the conversion of feed intake into milk. Animals with a higher feed efficiency value will convert more milk from the same amount of feed as the average cow. The higher the breeding value, the more efficient the cow.

MUN - A measure of crude protein digestion efficiency and nitrate excretion. By reducing MUN in milk, animal health and efficiency increases. A breeding value below 0.0 indicates a lower than average urea content in milk.

Persistency - A measure of the animal's ability to produce at a flat lactation curve, maintaining milk production at a high level after peak. Higher score means high persistency.

Temperament - A measure of character, a higher score indicates a more calm, quiet animal.

PRODUCTION

Milk - Predicted transmitting ability of pounds of milk in comparison to other cows of the breed born in the same base year.

Fat - Predicted transmitting ability of pounds of fat in comparison to other cows of the breed born in the same base year.

Fat % - Predicted transmitting ability of percent of fat within milk in comparison to other cows of the breed born in the same base year.

Protein - Predicted transmitting ability of pounds of protein in comparison to other cows of the breed born in the same base year.

Protein % - Predicted transmitting ability of percent of protein within milk in comparison to other cows of the breed born in the same base year.

Lactose - The breeding value measuring kilograms of lactose in comparison to the breed average with higher values indicating more lactose content.

Lactose % - Predicted transmitting ability of percent of lactose within milk in comparison to other cows of the breed born in the same base year.

CFP - Predicted transmitting ability of combined pounds of fat and protein.

Somatic Cell Score - Somatic Cell Score (SCS) indicates genetic susceptibility for udder health, as revealed through somatic cell count. Animals with PTA SCS of less than 3.0 are expected to transmit favorable udder health, while animals with PTA SCS greater than 3.0 are expected to have daughters with cell counts higher than breed average.

Feed Saved - Feed Saved indicates the expected reduction of feed consumed each lactation based on evaluations for Residual Feed Intake and Body Weight Composite. The trait is measured in pounds of dry matter intake.

Residual Feed Intake - Residual Feed Intake (RFI) is a measure of feed efficiency and is defined as the difference between an animal's actual feed intake and its expected feed intake based on its size and growth compared to the breed average base. RFI is independent of the level of production. The lower the RFI value, the more efficient the animal is.

MILK ROBOT

Robot Index - With the goal of breeding cows with robot suitable traits and preventing negative udder health effects, this index combines Robot Efficiency, Robot Interval, Robot Habituation and the udder health index. A higher index value indicates daughters are more robot suitable in all aspects than average.

Robot Efficiency - Robot Efficiency measures kg of milk produced per minute during box time (time in the milking system). A higher Robot Efficiency value indicates more milk produced per minute while in the robot.

Milking Interval - A measure of the time between two successful visits to the robot. A breeding value higher than 100 results in a shorter milking interval, therefore more frequent visits to the robot.

To increase transparency of information sourcing, items on this page highlighted in gray are sourced from the Dutch base. Those highlighted in blue are sourced from the US base including CDCB health and production and HOUSA type.

Holstein Trait Explanations

CALVING TRAITS & FERTILITY

Daughter Pregnancy Rate - Daughter Pregnancy Rate (DPR) is a female fertility trait that predicts the percentage of non-pregnant cows that will become pregnant during each 21-day period compared to the breed base.

Fertility Index - The Fertility Index combines several reproductive components into one overall index: ability to conceive as a maiden heifer, ability to conceive as a lactating cow, and a cow's overall ability to start cycling again, show heat, conceive, and maintain a pregnancy.

CCR - Cow Conception Rate (CCR) is a female fertility trait predicting the lactating cow's ability to conceive, defined as the expected percentage to become pregnant at each insemination in comparison to the breed base.

HCR - Heifer Conception Rate (HCR) is a female fertility trait predicting the maiden heifer's ability to conceive, defined as expected percentage to become pregnant at each insemination in comparison to the breed base.

Early First Calving (EFC) - Defined in days, EFC is the age at first calving. If a bull transmits the genetics expected to reduce first calving by 2 days, his PTA for EFC would be +2.0 days. Heritability for EFC is 2.3% with reliability at 66% for Holsteins.

Gestation Length - Gestation Length (GL) is the expected influence the animal will have on the days that their female offspring carry their calves compared to the breed average base.

Calving Interval - Calving Interval (CI) is the breeding value used to predict the time between one calving and the next. A breeding value of 100 is considered average with the standard deviation being 4 and equaling 6.7 days difference in interval.

Birth Weight - Birth Weight (BW) is the expected weight of a bull's calf. A breeding value of 100 is considered average. A lower breeding value means a lower birth weight.

Sire Calving Ease - Sire Calving Ease (SCE) predicts the tendency of service sires to produce offspring that are delivered easily, expressed as percentage of births of bull calves coded for first calf heifers compared to other AI bulls born in 2015.

Sire Stillbirth - Sire Stillbirth (SSB) predicts the tendency of service sires to produce offspring that are stillborn (dead at birth or within 48 hours of birth), expressed as percent compared to other A.I. bulls born between 2011 and 2015.

Daughter Calving Ease - Daughter Calving Ease (DCE) predicts the tendency of the daughters of sires to have offspring that are delivered easily, expressed as percentage of births of bull calves that are difficult in first calf heifers compared to other A.I. bulls born in 2010.

Daughter Stillbirth - Daughter Stillbirth (DSB) predicts the tendency of the daughters of sires to have offspring that are stillborn (dead at birth or within 48 hours of birth), expressed as percent compared to other A.I. bulls born between 2006 and 2010.

To increase transparency of information sourcing, items on this page highlighted in gray are sourced from the Dutch base. Those highlighted in blue are sourced from the US base including CDCB health and production and HOUSA type.

CDCB HEALTH TRAITS

Productive Life - Productive Life (PL) predicts the time that female offspring are expected to remain in the milking herd before removal by culling or death, expressed as difference in months of productivity compared to the breed base.

Cow Livability - Cow Livability (CLV) predicts the difference in female offspring expected to remain alive while in the milking herd expressed in percentage points from the breed base.

Heifer Livability - Heifer Livability (HLV) predicts the difference in female young offspring expected to remain alive between 2 days after birth and 18 months of age expressed in percentage points from the breed base.

Calf Survival - A measure of survival from day 3-365 of life. A higher breeding value indicates a higher chance of surviving their first year of life.

Milk Fever - Expected resistance of an animal's offspring to hypocalcemia (milk fever) compared to the breed average base expressed in percentage points.

Displaced Abomasum - DAB is the expected resistance of an animal's offspring to displaced abomasum (DA) compared to the breed average base expressed in percentage points.

Ketosis - The expected resistance of an animal's offspring to ketosis compared to the breed average base expressed in percentage points.

US Mastitis - The expected resistance of an animal's offspring to clinical mastitis compared to the breed average base expressed in percentage points.

Metritis - The expected resistance of an animal's offspring to metritis compared to the breed average base expressed in percentage points.

Retained Placenta - The expected resistance of an animal's offspring to retained placenta compared to the breed average base expressed in percentage points.

INDEXES

Net Merit - Net Merit (NM\$) indicates the additional net profit a daughter is expected to provide over her lifetime as compared to the breed base. Over 40 economically important traits are involved in the calculation of NM\$.

Cheese Merit - Cheese Merit (CM\$) utilizes the same traits as NM\$, but places a negative weight on PTA Milk and more emphasis on pounds of protein and SCS. This index is designed for herds focused on milk production for cheese.

Fluid Merit - Fluid Merit (FM\$) utilizes the same traits as NM\$ but places more weight on PTA Milk and no weight on protein. This index is designed for herds in fluid milk markets.

Grazing Merit - Grazing Merit (GM\$) was created for pasture-based herds using intensive grazing. As compared to the other M\$ indexes, fertility receives 2.5 times more emphasis, as well as increased emphasis on production yield, longevity, livability and udder health.

GTPI® - The Genomic Total Performance Index (GTPI®) is calculated by Holstein Association USA as a reference for breeders. This index includes 14 traits within the 3 major categories of production, health & fertility, and conformation.

NVI - NVI stands for the Netherlands-Flanders Index and is focused on improving production and longevity and producing more fertile, healthier cows. Four major components create NVI: production, feed efficiency, health and conformation.

Holstein Trait Explanations

CONFORMATION

PTAT - Predicted Transmitting Ability Type refers to the genetic merit of total conformation that a bull transmits to his offspring. This value is calculated by Holstein Association USA.

Udder Composite - Udder Composite (UDC) is an index calculated by Holstein Association USA to promote a well formed, capacious udder with strong attachments. Nine udder conformation traits are included in this index.

Feet & Leg Composite - Feet & Leg Composite (FLC) is an index calculated by Holstein Association USA to promote superior mobility, steeper foot angle, wider rear leg stance and slightly straight rear legs as viewed from the side. Four components are included in the calculation of this index.

Body Weight Composite - Body Weight Composite (BWC) is an index calculated by Holstein Association USA to account for body size and dairy form. Five components are included in the calculation of this index.

Locomotion - Locomotion (LOC) is a measure of how freely the cow moves on her feet and legs. This trait is evaluated by trained classifiers and a higher score indicates a cow that moves easier.

ADDITIONAL INFORMATION

GFI - Genomic Future Inbreeding (GFI) is an estimation of future progeny genomic inbreeding assuming an animal is randomly mated to genomically tested animals within its breed.

Beta Casein - Genotype for beta casein determines whether an

animal produces A2A2, A1A2, or A1A1 milk. A2A2 beta casein milk is desired because of the possible association with greater digestibility for individuals who are intolerant to dairy products.

Kappa Casein - Kappa Casein is a key protein in cheese making. The BB genotype is favorable in cheese making ability.

Lactoglobulin - The major protein found in whey and found to be a major allergen in cows' milk. Variant A and Variant B have been identified. The A variant is associated with increased milk yield and whey protein content and higher relative concentration of beta-lactoglobulin compared to the B variant. The B variant is associated with increased casein and fat content and is favorable for cheese production. Animals testing A/A will produce higher amounts while animals testing B/B will produce lower amounts.

PROVEN - Bulls with at least 10 milking daughters contributing to the genetic evaluation.

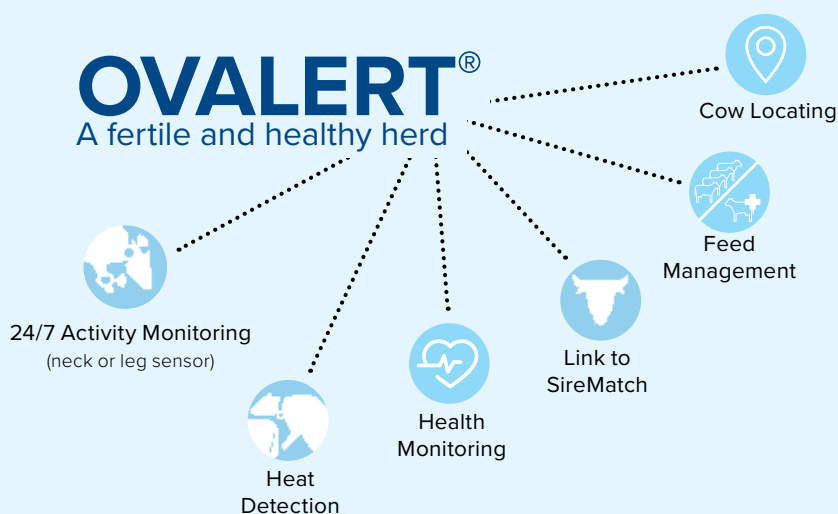
POLLED - Bulls who carry the polled gene, either homozygous or heterozygous.

NEW - Bulls added to the CRV lineup with the current genetic evaluation cycle.

CREATE - CRV early release sires available with a signed Genetic Partnership agreement. To use the best and brightest sires today, contact your local representative for details and a copy of the contract.



Bulls designated as the most efficient in the CRV line up who provide daughters to develop a highly productive herd delivering more milk with less feed.



Keep an Eye on Every Animal

Fewer Health Problems

- ▶ Health Signals Detected
- ▶ Lower Risk of Sick Cows & Heifers
- ▶ Lower Health Costs & Lower Culling
- ▶ More Milk per Cow, Higher Efficiency
- ▶ Evaluate Feed Management for Improvement

Better Fertility Results

- ▶ Optimal Heat Detection
- ▶ Precise Insemination Timing
- ▶ Higher Conception Rate
- ▶ Lower Fertility Costs & Optimal Calving Interval
- ▶ Direct Mating Advice when used with SireMatch

Holstein Trait Leaders

PRODUCTION

MILK		FAT		US FAT%		PROTEIN		US PROTEIN %		CFP	
GAOCHAN	2948	ZURI	129	DAZZLIN	0.37	GAOCHAN	95	DAZZLIN	0.13	SORTUDO	212
STAR 2409	2855	SORTUDO	128	ICE	0.35	SORTUDO	84	MECANICO	0.12	MR XIN	199
ASGARDIAN	2376	TICTOC	128	THRIFTY	0.29	STAR 2409	82	DYNORAMA	0.11	TICTOC	198
SORTUDO	2312	MR XIN	128	MECANICO	0.29	HIGHSTAKES	78	VOLSTAGG	0.11	HIGHSTAKES	197
ESCAPADE	2245	ICE	126	ZURI	0.28	ZICO	75	ICE	0.11	STAR 2409	195
ZICO	2073	HOMELAND	124	BRAVADO	0.28	TIDES-OUT	73	ENGINEER	0.11	ZURI	188
TICTOC	2016	BRAVADO	124	VOLSTAGG	0.28	RAY	72	TUNE	0.10	GAOCHAN	188
PALOMINE	1961	DAZZLIN	120	GRANDMASTER	0.27	MR XIN	71	GADZOOKS	0.10	BRAVADO	182
FRANDRAL	1927	HIGHSTAKES	119	GADZOOKS	0.27	ESCAPADE	71	MORANT	0.10	HOMELAND	180
SAM BAL BEI	1823	GADZOOKS	117	BRAZEN	0.26	PALOMINE	71	HIGHSTAKES	0.09	ICE	179

LACTOSE		LACTOSE %		DUTCH FAT %		DUTCH PROTEIN %		SCS		MUN	
ASGARDIAN	120	LUKAKU	0.15	ENDLESS RF	0.84	LIXOR	0.43	BRAZEN	2.56	NIPPY-SL-P*RC	-1.3
STAR 2409	113	FRANDRAL	0.13	XANDER	0.74	CHEESE*RC	0.41	EAGLEHEART	2.63	LUKAKU	-0.7
SORTUDO	103	HOTLINE	0.12	LUCARDI	0.62	STARMAKER	0.36	DEFIANT	2.64	EAGLEHEART	-0.3
WARREN P	97	POLAR-SL-PP-RED	0.12	PREPPER P	0.59	VULCANO P	0.34	VOLSTAGG	2.66	COLLECTOR	-0.3
WOODY	93	DOC HARDY	0.11	LIXOR	0.59	ENCOURAGE	0.33	PROCEDURE	2.67	OVER THERE	-0.2
GAOCHAN	91	HOHHOT	0.11	STARMAKER	0.56	PREPPER P	0.32	DONKEYKONG	2.67	BRAZEN	-0.2
FRANDRAL	90	WOODY	0.10	FAST LANE	0.55	FOSTER PP	0.28	ZYMURGY	2.69	GALLIVANT	-0.2
PALOMINE	89	ENDLESS RF	0.08	CHEESE*RC	0.49	LUCARDI	0.27	MECANICO	2.69	HEERSCH-SL	-0.2
DOC HARDY	85	ONSTAGE	0.08	FLAGSTONE	0.47	EVERTON	0.27	DAZZLIN	2.69	MECANICO	-0.1
ZICO	83	STAR 2409	0.07	DOLMEN	0.41	FAST LANE	0.24	HOHHOT	2.69	UPSWING	-0.1

HEALTH

CRV HEALTH		HOOF HEALTH		UDDER HEALTH		PRODUCTIVE LIFE		COW LIVABILITY		HEIFER LIVABILITY	
CHEESE*RC	10	THERAPY	109	STARMAKER	107	EAGLEHEART	7.0	TONE	3.8	PROCEDURE	1.5
ENCOURAGE	8	VULCANO P	108	PERFECT	107	MECANICO	7.0	LUKAKU	3.7	SORTUDO	1.5
THERAPY	8	CHEESE*RC	108	LIXOR	107	ASGARDIAN	6.8	ENGINEER	3.5	ZICO	1.4
VULCANO P	7	WARREN P	108	FAIR PLAY	107	PROCEDURE	6.8	PROCEDURE	3.3	DONKEYKONG	1.4
STARMAKER	7	LIBERATE	108	VULCANO P	106	FRANDRAL	6.6	MORANT	3.2	CURVEBALL	1.3
ENDLESS RF	7	XANDER	108	EVERTON	106	DAZZLIN	6.5	MECANICO	2.9	MR XIN	1.3
COLLECTOR	7	STARMAKER	107	FLAGSTONE	106	ENGINEER	6.4	DAZZLIN	2.9	STAR 2409	1.3
FOSTER PP	6	PERFECT	107	CHEESE*RC	105	GALLIVANT	6.2	DOORDASH	2.6	ENGINEER	1.2
EVERTON	6	LIXOR	107	ENCOURAGE	105	COLLECTOR	6.0	GRANDMASTER	2.6	MORANT	1.2
FAST LANE	6	ENDLESS RF	107	THERAPY	105	DEFIANT	5.9	COLUMBO	2.5	DAZZLIN	1.2

MILK FEVER		DISPLACED AB		KETOSIS		US MASTITIS		CLINICAL MASTITIS		SUBCLINICAL MAST	
ESCAPADE	0.3	ASGARDIAN	0.9	FRANDRAL	2.6	BRAZEN	4.1	PREPPER P	106	PREPPER P	108
LUKAKU	0.2	GADZOOKS	0.9	GUAM	2.6	ENGINEER	3.9	STARMAKER	105	STARMAKER	107
ANSON	0.2	EAGLEHEART	0.9	PROCEDURE	2.5	EAGLEHEART	3.7	PERFECT	105	PERFECT	107
FUGLEMAN	0.2	HOMELAND	0.8	ANSON	2.5	VOLSTAGG	3.6	LIXOR	105	LIXOR	107
TICTOC	0.2	INTRICATE	0.8	DEFIANT	2.4	ZICO	3.5	FAIR PLAY	105	FAIR PLAY	107
NIPPY-SL-P*RC	0.1	MORANT	0.8	ASGARDIAN	2.4	OVER THERE	3.0	VULCANO P	105	VULCANO P	107
BASTION-P	0.1	FRANDRAL	0.7	DYNORAMA	2.2	MECANICO	3.0	EVERTON	105	ENDLESS RF	107
PROCEDURE	0.1	OUT TUCKER	0.7	PALOMINE	2.1	DAZZLIN	2.9	FLAGSTONE	105	THERAPY	107
FACTOTUM	0.1	TONE	0.7	TICTOC	2.1	UPSWING	2.8	WOODY	105	FOSTER PP	107
TYROL	0.1	ICE	0.7	BASTION-P	2.1	ZYMURGY	2.8	DOLMEN	105	EVERTON	106

Holstein Trait Leaders

EFFICIENCY

CRV EFFICIENCY		FEED EFFICIENCY		LONGEVITY		FEED SAVED		RFI	
ASGARDIAN	23	ASGARDIAN	114	ENCOURAGE	665	THRIFTY	478	PARKER	-195
ENCOURAGE	22	STAR 2409	113	LIXOR	607	MECANICO	323	COLUMBO	-189
MECANICO	22	MECANICO	113	FLAGSTONE	588	DEFIANT	302	UPSWING	-182
WARREN P	20	THRIFTY	113	CHEESE*RC	587	PLAYA	294	PLAYA	-181
STAR 249	21	ONSTAGE	113	DOLMEN	579	ASGARDIAN	277	DEFIANT	-172
DOLMEN	19	TIDES-OUT	113	LIBERATE	565	SAM BAL BEI	268	HOHHOT	-169
ONSTAGE	19	ESCAPADE	112	FAST LANE	560	HOHHOT	264	BRAVADO	-168
TIDES-OUT	19	ENCOURAGE	112	GUAM	558	ONSTAGE	259	SAM BAL BEI	-161
THRIFTY	19	WARREN P	112	DEFIANT	553	STAR 2409	258	GAOCHAN	-149
ZYMURGY	18	ANSON	111	THERAPY	546	FRANDRAL	257	DOORDASH	-148

FERTILITY

CRV FERTILITY		FERTILITY INDEX		DPR		CCR		HCR	
PINEAPPLE P	108	ANSON	2.5	TUNE	1.9	ANSON	4.1	DOORDASH	4.7
FOSTER PP	108	TUNE	2.0	ANSON	1.9	MECANICO	3.2	ESCAPADE	4.1
CHEESE*RC	108	TYROL	1.8	TONE	1.5	DOORDASH	2.8	UPSWING	3.8
TUNE	107	OVERTHERE	1.8	TYROL	1.3	TYROL	2.6	PROCEDURE	3.6
COLLECTOR	107	DOORDASH	1.8	MECANICO	1.2	PROCEDURE	2.5	OVERTHERE	3.6
WARREN P	106	TONE	1.7	OVERTHERE	1.0	TUNE	2.4	DAZZLIN	3.5
ANSON	106	MECANICO	1.5	DOORDASH	1.0	OVERTHERE	2.4	ANSON	3.4
TONE	106	ONSTAGE	1.4	ONSTAGE	0.6	ASGARDIAN	2.2	ENGINEER	3.3
MECANICO	106	GUAM	1.3	PROCEDURE	0.6	DAZZLIN	2.1	TYROL	3.2
EAGLEHEART	106	PROCEDURE	1.3	GUAM	0.5	GUAM	2.0	COLLECTOR	3.1

CALVING TRAITS

SCE		DCE		EFC		CALVING INTERVAL		BIRTH WEIGHT	
GRANDMASTER	1.3	INTRICATE	1.1	CURVEBALL	6.6	PINEAPPLE P	110	SAM BAL BEI	106
OVERTHERE	1.3	UPSWING	1.2	HOTLINE	5.9	FOSTER PP	108	MR WU	106
FACTOTUM	1.4	GRANDMASTER	1.3	GAOCHAN	5.6	CHEESE*RC	107	FLAGSTONE	105
MECANICO	1.5	THRIFTY	1.3	COLLECTOR	5.4	STARMAKER	107	TYROL	104
VOLSTAGG	1.5	LUKAKU	1.4	ONSTAGE	5.2	WARREN P	106	NIPPY-SL-P*RC	104
THRIFTY	1.5	GADZOOKS	1.5	RAY	5.1	CURVEBALL	105	HOMELAND	104
ANSON	1.5	ANSON	1.6	ENGINEER	4.8	MR XIN	105	OVERHOT	104
LUKAKU	1.5	ZYMURGY	1.7	GUAM	4.8	ANSON	105	TIDES-OUT	104
COLLECTOR	1.6	TUNE	1.7	OVERTHERE	4.8	BRAZEN	105	GAOCHAN	104
FRANDRAL	1.6	ZURI	1.7	DAZZLIN	4.6	GRANDMASTER	105	POLAR-SL-PP-RED	104

INDEXES

NM\$		GTPI		NVI		CM\$		FM\$		GM\$	
MECANICO	1227	MECANICO	3105	ENCOURAGE	415	MECANICO	1253	STAR 2409	1135	MECANICO	1213
DAZZLIN	1139	TYROL	3095	FLAGSTONE	356	DAZZLIN	1166	TICTOC	1069	THRIFTY	1095
STAR 2409	1123	TUNE	3075	WARREN P	346	ZYMURGY	1133	ASGARDIAN	1066	DAZZLIN	1093
TICTOC	1115	TONE	3058	MECANICO	340	THRIFTY	1129	GAOCHAN	1061	TICTOC	1083
ZYMURGY	1112	ZYMURGY	3057	FAST LANE	314	STAR 2409	1123	MECANICO	1052	DOORDASH	1068
THRIFTY	1112	OVERTHERE	3057	LIBERATE	298	TICTOC	1121	FRANDRAL	1002	STAR 2409	1063
GAOCHAN	1091	TICTOC	3051	ENDLESS RF	297	DEFIANT	1097	THRIFTY	998	TONE	1059
DEFIANT	1076	DAZZLIN	3046	ZYMURGY	296	GAOCHAN	1095	GALLIVANT	990	GRANDMASTER	1059
DOORDASH	1071	MR WU	3046	COLLECTOR	283	DOORDASH	1090	ZYMURGY	984	ZYMURGY	1056
GRANDMASTER	1070	COLUMBO	3037	ASGARDIAN	279	GRANDMASTER	1088	ESCAPADE	963	ANSON	1045

ROBOT TRAITS

ROBOT INDEX		ROBOT EFFICIENCY		ROBOT INTERVAL		TEAT LENGTH	
ICE	115	ICE	116	PERFECT	110	DOC HARDY	1.12
ZURI	115	ZURI	114	CHEESE*RC	110	PALOMINE	1.00
HIGHSTAKES	114	ANSON	114	WARREN P	109	COLLECTOR	0.78
ASGARDIAN	113	DOC HARDY	114	FOSTER PP	108	GAOCHAN	0.75
INTRICATE	113	HIGHSTAKES	113	FAIR PLAY	108	PARKER	0.65
WARREN P	113	INTRICATE	113	ENCOURAGE	108	BASTION-P	0.63
ANSON	112	ASGARDIAN	112	THERAPY	108	ENGINEER	0.61
ZYMURGY	112	ZYMURGY	112	FAST LANE	108	ORONO	0.58
FRANDRAL	112	FRANDRAL	112	LIBERATE	107	TYROL	0.43
ESCAPE	111	MR XIN	112	EVERTON	107	SORTUDO	0.38

CONFORMATION

PTAT		UDC		FLC		BWC		LOC	
DOC HARDY	3.04	FACTOTUM	2.57	PARKER	1.95	TYROL	1.47	HOTLINE	105
PARKER	2.88	PARKER	2.49	ORONO	1.87	UPSWING	1.08	TYROL	103
HOTLINE	2.82	TIDES-OUT	2.44	BASTION-P	1.64	COLUMBO	1.03	BASTION-P	102
ORONO	2.47	EAGLEHEART	2.35	HOTLINE	1.62	HOTLINE	1.02	PARKER	101
TYROL	2.35	HIGHSTAKES	2.28	TYROL	1.56	PARKER	0.91	LUKAKU	101
SORTUDO	2.15	HOTLINE	2.26	DOC HARDY	1.53	HOMELAND	0.82	GALLIVANT	101
TIDES-OUT	2.14	DOC HARDY	2.22	TIDES-OUT	1.50	MR XIN	0.71	ORONO	100
BASTION-P	2.09	MR WU	2.19	LUKAKU	1.24	BASTION-P	0.63	UPSWING	100
MR WU	2.08	ORONO	2.10	ENGINEER	1.21	NIPPY-SL-P*RC	0.46	BRAVADO	100
OVERHOT	2.06	TONE	2.02	OUT TUCKER	1.12	ORONO	0.43	ESCAPADE	100

CREATE

NAAB	NAME	NM\$	TPI	CFP	PEDIGREE
097HO42628	TICTOC	1115	3051	198	Alphabet x Lionel x Delta
097HO42717	TUNE	1045	3075	162	Outcome x Alphabet x Toronto
097HO42718	TONE	1045	3058	150	Outcome x Alphabet x Toronto
097HO42788	TYROL	1045	3095	156	Pari x Eisaku x Mega Luck
097HO42846	DAZZLIN	1139	3046	168	Engineer x Legacy x Challenger
097HO42847	FRISSON	1098	3039	190	Fugleman x Rome x Medley
097HO42850	ZYMURGY	1112	3057	177	Zooty x Incredible x Positive
097HO42851	SHOOTER	1111	3072	205	AltaKevlow x Torro x Marius
097HO42852	MECANICO	1227	3105	174	AltaKevlow x AltaZazzle x Marius
097HO42878	OVERTHERE	1045	3057	154	Drive x Granite x Millington
097HO42879	ORIOLE-RED	932	3063	158	Champion-Red x Granite X Millington

BEEF ON DAIRY

ANGUS						
NAAB	NAME	CED	BW	\$ANxHO	\$ANxJE	Rib Eye
097AN00065	RUSH	9	0.5	195	189	1.10
097AN00063	BLAZER	12	-0.5	168	167	0.90
097AN00057	EXCLAMATION	11	-0.2	178	133	0.75
097AN00074	HOMELAND	7	2.2	269	246	1.06
097AN00069	SET APART	6	3.9	212	239	1.25
SIMM-ANGUS						
NAAB	NAME	CE	BW	Rib Eye	TI	Marb
097SM00001	Beefmaker 68	5.6	1.3	0.57	97.3	0.74
097SM00002	Beefmaker G181	13.5	1.5	0.51	87.2	0.60

CREATE SIRES

The CREATE program was designed to provide a partnership opportunity with CRV customers looking to accelerate their herd's genetic gain. Participating in the program allows for use of our future 'sires of sons' before they are publicly available.

Working with your CRV representative to understand and set your breeding goals is the first step in joining CREATE. Upon determining your goals align with the program, your representative will share the agreement and explain the incentives and requirements. The next step is choosing your bulls. CRV will provide first, exclusive access to the most promising up and coming sires.

CREATE your future today!

BEEF ON DAIRY

Easy calving, great growth, high fertility.

Add value to the calves leaving your dairy and improve the profitability of your operation with these Beef on Dairy approved sires from CRV.

HERDOPTIMIZER

Genomic testing for the next generation herd

Do you know the genetic potential of your herd? Increase your farm's profitability by taking a customized breeding approach, using the unique CRV breeding indicators CRV Health and Efficiency, NVI/TPI and other traits.

HerdOptimizer is a tool to gain easy insight in the genetic potential of your herd. This customized breeding concept and management tool contains female genotyping and the possibility to personalize your mating advice using SireMatch.

What is HerdOptimizer?

HerdOptimizer uses a genomic test to reveal the genetic potential of your female animals. The outcome consists of breeding values for over 50 traits related to milk production, health, practice proven feed efficiency scores and conformation. This will give you a reliable prediction of the performance of the animals in the future. CRV also provides unique CRV breeding indicators for Health and Efficiency.

The reliability of a genomic test is comparable with the performance of a third parity cow (65-70%). Besides the breeding values, the genomic test also gives insight in

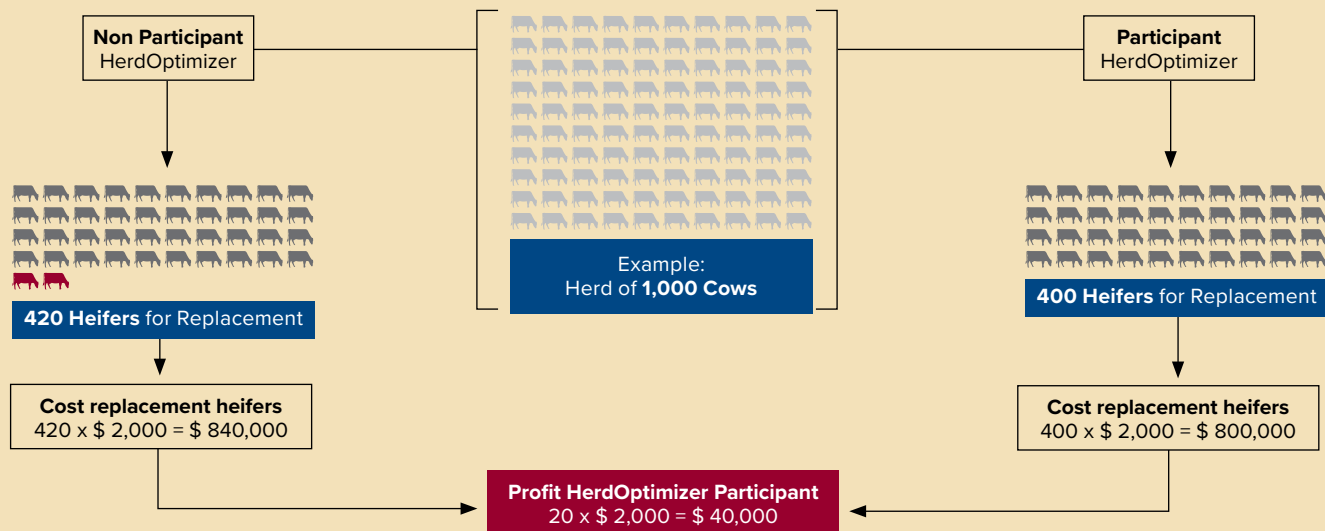
the presence of specific genetic traits such as red factor, polled, A2-milk and kappa casein.

The combination of HerdOptimizer and SireMatch enables you to rank your animals based on your breeding goal, which helps you to make the best breeding decisions for your herd.

Proven Results

- **Realize your breeding goal faster**, for an efficient and healthier herd with better conformation and improved milk production
- **Increase your farm's profitability** by up to \$ 1,000 per cow over three lactations
- **Make breeding decisions** more easily by using sexed semen on the genetically superior animals and breeding lower genetic animals to beef

How can you profit from HerdOptimizer?



HerdOptimizer: Calculating Return on Investment

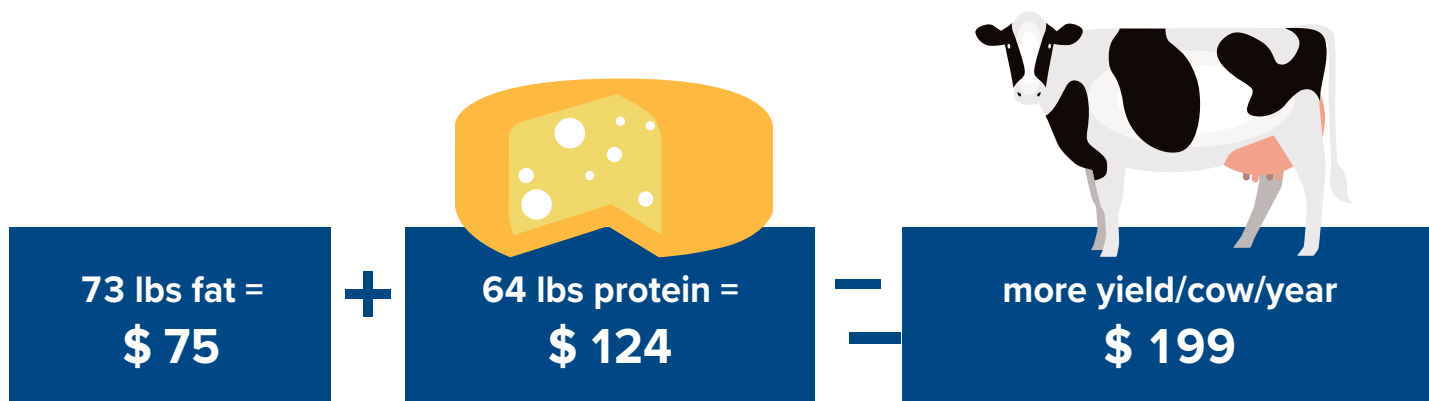
Short Term:

- Lower raising costs: $20 \times \$2,000 = \$40,000$
- Costs genomic test heifers $\approx \$15,000$
- Return on investment $\approx \$25,000$

Assuming replacement rearing cost of \$2,000 and cull rate of 5% after testing

Long Term:

- Genetic gain for your customized breeding goals
- Opportunity for accelerated herd growth
- Profit diversification from Beef on Dairy



Participants in HerdOptimizer gain **\$199/year more milk yield per cow**

Customized Breeding Goal

All this information is entered in a handy digital breeding program: HerdOptimizer. In HerdOptimizer, your animals are ranked based on your personal, fully customizable breeding goal. This enables you to easily make breeding decisions, such as which animals to keep for rearing and which pairings will produce better offspring. The results of HerdOptimizer are automatically entered into SireMatch. With a customized breeding goal, you easily make the best pairings and work towards higher returns.

- **The only fully customizable breeding index in the world**
- **Higher genetic gain through proper matings & animal selection based on your goals**
- **Increased farm profitability by raising only calves that further your genetic program**

Q: What advantage does genomic testing bring versus utilizing parent averages?

A: The reliability of a genomic test is greater in young stock at 65-73% versus 20-40% reliability typically seen in parent averages.

Q: What additional information is available through HerdOptimizer besides the breeding values of my herd?

A: Aside from breeding values, HerdOptimizer also provides information concerning the presence of specific genetic traits such as the polled gene, red factor genes, beta casein, kappa casein and potential genetic defects.

Q: What is the added value of genomic testing/ HerdOptimizer?

A: The use of HerdOptimizer will lead to proven results:

- Realizing your breeding goals faster through targeting these specific goals
- Increase in farm's profitability by meeting goals quicker
- More clear, concise breeding decisions
- Identify sire or dam misidentification

Q: How does the cost of HerdOptimizer directly relate to returns?

A: The use of HerdOptimizer will increase your farm's profitability. Participants using HerdOptimizer on average see \$199/year more milk income per cow, adding up to \$900/cow over 3 lactations, compared to producers not utilizing HerdOptimizer. In addition, replacements can be chosen and culled earlier in life reducing the expense of youngstock rearing.

Q: To use HerdOptimizer, is whole herd testing required?

A: The producer has the option to decide how many animals to test. Most producers prefer to test all newborn calves, but selecting a specific group of calves or heifers maybe beneficial depending on goals. Parent average of non-tested animals will be included in HerdOptimizer reports (with a lower reliability). A total overview of the herd is provided.



Breeding for Feed Efficiency

PROVEN PATH TO PROFITABILITY

LESS FEED HIGHER MARGINS

Backed by years of cooperation with farmers and leading developments in science, CRV **FeedExcel** uses our creation of the largest, most reliable feed intake dataset of lactating cows in the world. This breeding strategy promises a highly productive herd delivering more milk with less feed. The proven path to higher margins and lower emissions.

- ▶ **25% more milk***
or
- ▶ **25% less feed***
and
- ▶ **25% less methane by 2050**

*Based on CRV's own research on commercial dairy farms where the 25% best cows for feed efficiency were compared to the 25% lowest.



BETTER COWS > BETTER LIFE



CRV4ALL.COM