

Future

Opportunity

Sale



May 31, 2022

Richmond, MN

Twin Spruce Farms



1:00 PM CST

Live Internet Bidding at

www.cowbuyer.com



- View/Bid online in real time. Registration is required. Please register at least one hour prior to sale time at www.cowbuyer.com
- High speed internet is required. Slower speed will not permit you to bid and keep pace in real time.
- Terms: Purchasing online constitutes a legal contract and promise for payment of purchase. All purchases must be paid within five days of sale date and prior to load out or delivery of cattle purchased.
- Cowbuyer.com is a service provider and is not responsible for the activity or inactivity of any technology, internet connection at the sale site or connection and technology of the bidder.
- No APP required on mobile devices.

Questions please contact Aaron Ray Tompkins 336-363-4639

Future Opportunity Sale

Tuesday, May 31, 2022 @ 1:00 PM CST

View/ bid online in real time at www.cowbuyer.com

*Bidders must be pre-register & pre-approved. Contact Aaron Ray Tompkins if you need assistance at 336-363-4639

Feel Free to contact any member of the sale staff below to handle your bids or answer your questions!

Sale Staff

Arnie Gruenes.....320-493-9703

Jamie Endvick.....608-566-9096

Terms of sale: We are not a bank & we do not finance cattle. Buyers will be invoiced immediately by email with overnight payments expected by money wires or good check sent by priority mail to Sale Clerk. Make the checks out to Twin Spruce Farm Inc. they can be mailed to 17565 Co Rd 43 Richmond, MN 56368.

Sale Clerk

Kris Gruenes320-493-9704... krisarn@meltel.net

We welcome participation from buyers who understand the proceeds need to be issued immediately!

Buyers of live cattle should make immediate arrangements with sellers for transportation of purchases after payment has been made to sale managers. We encourage buyers to insure their purchases at least until they arrive at their new homes! Buyers are guaranteed their purchase will be healthy at time of pick up.

Sale Catalog

Ashley Gruenes.....320-345-0126.....lilyandmacy@gmail.com

Twin Spruce Farm is excited to be giving the best opportunity for the future. As we have used these genetics and other cow families to make and grow our future herd early on.

Our family would like to thank everyone for the support and hope these genetics will bring you great opportunities for in the future.

Sincerely,

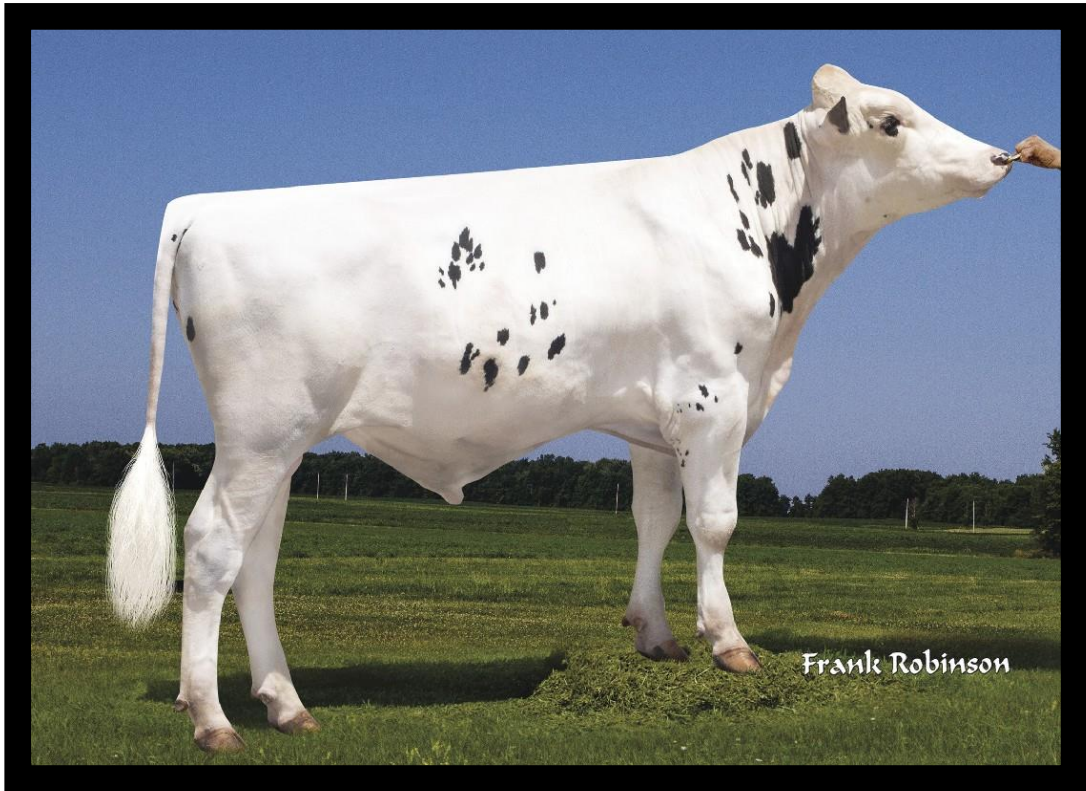
Arnie & Kris Gruenes and Arnie, Ashley and Andy

This sale will strictly be done on Cowbuyer. There is No auctioneer and No pedigree reader.

This auction will utilize an auto-extend, soft closing. With this feature, the bidding will close on 2 lots at the same time. Bidding will start to close at 1:00 pm CST if a lot receive a bid in the last minute of bidding, they will extend bidding on that specific lot for an additional 2 minutes. Once 2 minutes have lapsed without any bidding activity, then the lot will close.



Mr. T-Spruce Frazz Lionel-ET

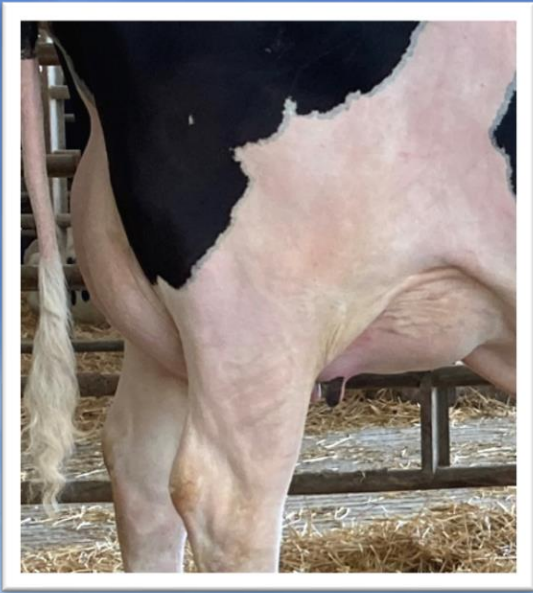


7H14454 – Frazzled x Montross x Supersire

LIONEL is among the breed's highest sires for TPI (+3172), Net Merit (+1,255 NM\$), Dairy Wellness Profit Index (+1,326 DWP\$), and Herd Health Profit Dollars (+1,200 HHP\$). April 2022 proofs added roughly 1,200 daughters from over 75 different herds to his profile, improving both his reliability and prominence within the Holstein breed.

Farmers can expect to see increased longevity, less health problems, and production powerhouse daughters from LIONEL. His +3,397 Milk and +253 Combined Fat and Protein (CFP) will add substantial pounds to the bulk tank each day and dollars down to the bottom line.

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot 1

T-SPRUCE TAOS 16364-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 4/9/2021 Reg: 840003235976371

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1185
Milk	+1966	76%R	Cheese Merit \$		+1199
Fat	+123	+0.16%	Fluid Merit \$ \$		+1082
Protein	+80	+0.06%	Gestation Len.	GMS	+1169
CFP	+203		EFI %	gEFI 11.1%	gIB 12.8%
SCS	2.87	%R	Mastitis +2.3	Fert. Index	+1.8
PL	+5.6	%R	Livability +1.4	Heifer Liv.	+1.5
DPR	+1.2	%R	HCR +0.5	CCR	+2.3
RFI	-81				
Feed Saved	+0	41%R		0 Dtrs 0 Herds	% US

04/2022	GHA TYPE SUMMARY				TPI +3182
PTAT	+1.35	75%R	UDC+0.68	FLC+0.28	BSC +1.37 0 D / 0 H

			-2	-1	0	1	2
Stature	+1.85	Tall					
Strength	+0.88	Strong					
Body Depth	+0.87	Deep					
Dairy Form	+1.58	Open Rib					
Rump Angle	+0.42	Sloped					
Thurl Width	+1.00	Wide					
Rear Legs-Side	-0.80	Posty					
Rear Legs-Rear	+0.60	Straight					
Foot Angle	+0.78	Steep					
Feet & Legs Score	+0.68	High					
F. Udder Attachment	+0.61	Strong					
Rear Udder Height	+1.41	High					
Rear Udder Width	+1.80	Wide					
Udder Cleft	+0.71	Strong					
Udder Depth	+0.71	Shallow					
Front Teat Placement	+0.26	Close					
Rear Teat Placement	+0.50	Close					
Teat Length	+1.00	Long					

#1 TPI, #2 NM\$, #3 Milk, #2 CM\$
Taos Daughter in the breed
Averaging 19 oocytes per IVF session

Arnie Gruenes
 Twin Spruce Farm
 17565 Co Rd 43
 Richmond, MN 56368
 Cows@meltel.net
 320-493-9703

Sire: Leaninghouse Taos-ET

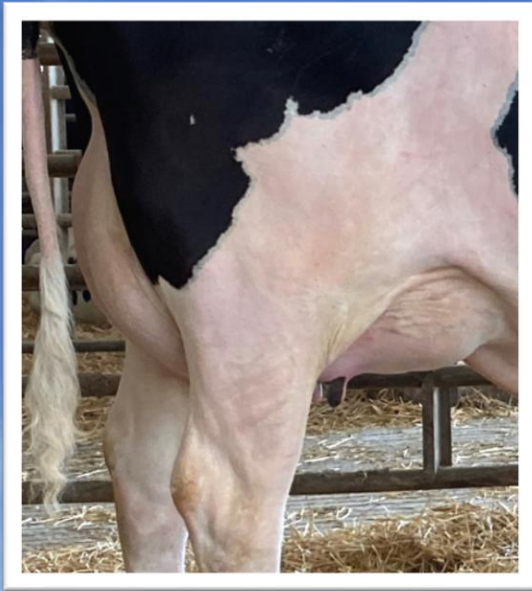
3151003682 4/22 PTA +2990 GTPi +1349 M
 81% +80 F +0.10% +62 P +913 NM\$ +5.7 PL
 +2.6 DPR 2.73 SCS +1.32 T +1.46 UDC +0.35 FLC
 Renegade x Jedi

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPi
 +1847 M +135 F +1160 NM\$
 +4.2 PL +0.0 DPR +0.84 T +.056 UDC
 Sire: T-Spruce Frazz Lionel-ET

*Fresh on 4/12/2022 Milking 90 lbs
 *Dam of T-SPRUCE G FROST BITE-ET

3rd Dam
 T-SPRUCE SAMURI 6347-ET
 Dam of T-SPRUCE LEGACY LIFT OFF-ET
4th Dam
 MERCEDES TS 9539-ET GP - 82
 2-00 3x 354d 30670m 3.7 1149f 3.2 991p



T-Spruce Lionel 13196-ET

Lot 2

T-SPRUCE LIONEL 13196-ET

IVF Session

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Born 4/10/2019 Reg 840003205638661

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1160
Milk	+1847	81%R	Cheese Merit \$		+1175
Fat	+135	+0.21%	Fluid Merit \$ \$		+1038
Protein	+81	+0.08%	Gestation Len.	GMS	+1143
CFP	+216		EFI %	gEFI 10.8%	gIB 14.9%
SCS	2.93	%R	Mastitis +1.3	Fert. Index	+1.3
PL	+4.2	%R	Livability +0.4	Heifer Liv.	+1.5
DPR	+0.0	%R	HCR +2.7	CCR	+1.5
RFI	-50				
Feed Saved	+4	44%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: AB DWP\$: 1298

04/2022	GHA TYPE SUMMARY				TPI +3142
PTAT +0.84	79%R	UDC+0.56	FLC+0.14	BSC +0.82	0 D / 0 H

	+0.95	Tall	-2	-1	0	1	2
Stature	+0.95	Tall					
Strength	+0.73	Strong					
Body Depth	+0.60	Deep					
Dairy Form	+1.33	Open Rib					
Rump Angle	+0.02	Sloped					
Thurl Width	+0.78	Wide					
Rear Legs-Side	+0.02	Sickle					
Rear Legs-Rear	-0.02	Hock In					
Foot Angle	+0.15	Steep					
Feet & Legs Score	+0.44	High					
F. Udder Attachment	+0.35	Strong					
Rear Udder Height	+1.58	High					
Rear Udder Width	+1.72	Wide					
Udder Cleft	-0.30	Weak					
Udder Depth	-0.13	Deep					
Front Teat Placement	-0.36	Wide					
Rear Teat Placement	-0.09	Wide					
Teat Length	-0.05	Short					

#3 NM\$, #2 CFP, #2 DWP\$, #3 CM\$, #3 FE

#3 Lionel Daughter in the breed
 Dam of T-SPRUCE G FROST BITE-ET

15 Daughters over 3100 GTPI
 4 sons over 3100 GTPI
 Averaging 18 oocytes per IVF session

Fresh on 4/12/2022
 Milking 90 lbs

Sire: Mr T-Spruce Frazz Lionel-ET

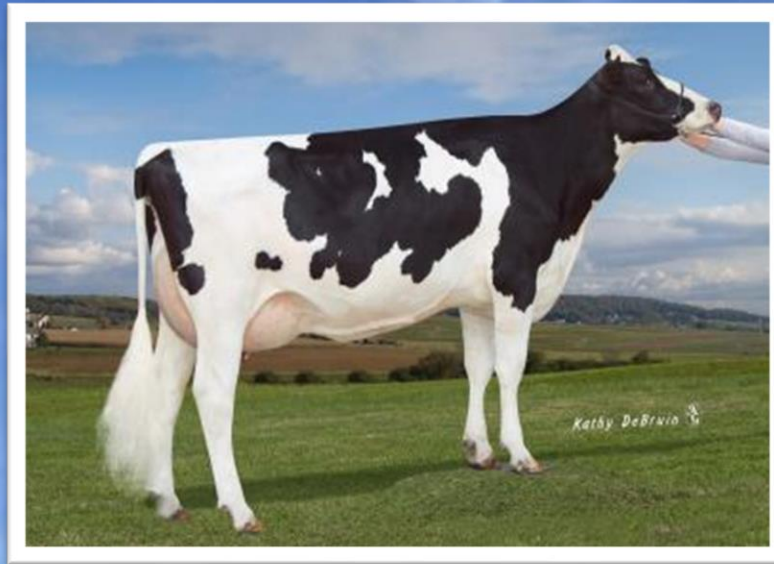
3142490309 4/22 PTA +3172 GTPI +3397 M
 99% +152 F +0.07% + 43 P +1255 NM\$ +5.5 PL
 -2.8 DPR 2.89 SCS +.056 T +0.61 UDC -0.41 FLC
 Frazzled x Montross

Dam: T-SPRUCE SAMURI 6347-ET

Reg: 3143484715 4/22 PTA +2714 GTPI
 +369 M +78 F +704 NM\$
 +2.8 PL +1.5 DPR +1.10 T +1.0 UDC
 Sire: Ocd Spring Samuri-ET

3rd Dam
 Mercedes Ts 9539-ET GP - 82
 02-00 3x 354d 30670m 3.7 1149f 3.2 991p
 4th Dam
 T-Spruce Lgold 7871-ET GP - 83

Arnie Gruenes
 Twin Spruce Farm
 17565 Co Rd 43
 Richmond, MN 56368
 Cows@meltel.net
 320-493-9703



3rd Dam: Endco Yoder L7933 9839-ET VG-86

Lot 3

T-SPRUCE CONWAY 16723-ET

IVF Session

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Born 6/15/2021 Reg: 840003235976730

04/2022	CDCB SUMMARY GENOMICCOW				NM\$ +1201
Milk	+1877	79%R	Cheese Merit \$		+1217
Fat	+136	+0.21%	Fluid Merit \$ \$		+1067
Protein	+85	+0.09%	Gestation Len.	GMS	+1162
CFP	+221		EFI %	gEFI 11.5%	glB 14.6%
SCS	3.00	%R	Mastitis -0.6	Fert. Index	-0.4
PL	+4.2	%R	Livability +0.9	Heifer Liv.	+1.0
DPR	-1.4	%R	HCR +2.2	CCR	-0.1
RFI	-24				
Feed Saved	+177	43%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: AB DWP\$: 915

04/2022	GHA TYPE SUMMARY				TPI +3156	
PTAT +1.41	78%R	UDC+1.05	FLC+0.50	BSC+0.32	0 D / 0 H	
		-2	-1	0	1	2
Stature	+0.35	Tall				
Strength	-0.08	Frail				
Body Depth	+0.87	Deep				
Dairy Form	+2.56	Open Rib				
Rump Angle	-0.21	High Pins				
Thurl Width	+0.88	Wide				
Rear Legs-Side	+0.88	Sickle				
Rear Legs-Rear	+0.87	Straight				
Foot Angle	-0.29	Low				
Feet & Legs Score	+0.59	High				
F. Udder Attachment	+0.87	Strong				
Rear Udder Height	+2.06	High				
Rear Udder Width	+2.76	Wide				
Udder Cleft	+0.56	Strong				
Udder Depth	-0.85	Deep				
Front Teat Placement	+0.39	Close				
Rear Teat Placement	+0.48	Close				
Teat Length	+0.84	Long				

Averaging 12 oocytes per IVF session

Sire: Sandy-Valley R Conway-ET

3148929379 4/22 PTA +2982 GTPI +660 M
81% +111 F +0.30% +54 P +939 NM\$ +4.0 PL
+0.7 DPR 2.86 SCS +1.45 T +1.36 UDC +0.69 FLC
Renegade x Granite

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

3rd Dam

Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

4th Dam

T-Spruce Lgold 7933-ET GP - 81
02-05 2x 248d 20320m 4.4 904f 3.4 687p

Future Opportunity Sale



T-Spruce Conway 17078-ET



2nd Dam: Endco Yoder L7933 9839-ET VG-86

Lot 4 T-SPRUCE CONWAY 17078-ET

Born 09/02/2021 Reg 840003235977085

Averaging 16 oocytes per IVF session

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17565 Co Rd 43
Richmond, MN 56368
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320-493-9703

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1082
Milk	+1179	79%R	Cheese Merit \$		+1104
Fat	+138	+0.32%	Fluid Merit \$ \$		+913
Protein	+71	+0.12%	Gestation Len.	GMS	+1046
CFP	+209		EFI %	gEFI 10.4%	gIB 10.5%
SCS	2.92	%R	Mastitis +1.2	Fert. Index	-0.6
PL	+3.4	%R	Livability +0.4	Heifer Liv.	+0.9
DPR	-1.2	%R	HCR +0.9	CCR	-0.7
RFI	-65				
Feed Saved	+34	42%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: AB DWPS: 1064

04/2022	GHA TYPE SUMMARY				TPI +3116	
PTAT	+1.75	78%R	UDC+1.20	FLC+0.97	BSC +0.98	0 D / 0 H
Stature	+1.05	Tall				
Strength	+0.68	Strong				
Body Depth	+1.00	Deep				
Dairy Form	+1.72	Open Rib				
Rump Angle	+0.33	Sloped				
Thurl Width	+1.12	Wide				
Rear Legs-Side	-0.09	Posty				
Rear Legs-Rear	+1.47	Straight				
Foot Angle	+0.67	Steep				
Feet & Legs Score	+1.05	High				
F. Udder Attachment	+1.03	Strong				
Rear Udder Height	+2.27	High				
Rear Udder Width	+2.72	Wide				
Udder Cleft	+0.53	Strong				
Udder Depth	+0.14	Shallow				
Front Teat Placement	+0.24	Close				
Rear Teat Placement	+0.30	Close				
Teat Length	+1.08	Long				

Sire: Sandy-Valley R Conway-ET

3148929379 4/22 PTA +2982 GTPI +660 M
81% +111 F +0.30% +54 P +939 NM\$ +4.0 PL
+0.7 DPR 2.86 SCS +1.45 T +1.36 UDC +0.69 FLC
Renegade x Granite

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

2nd Dam

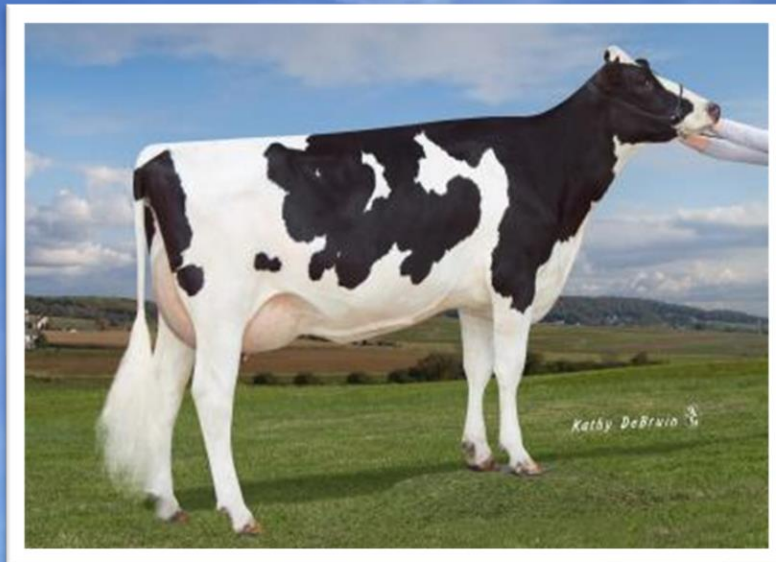
Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

3rd Dam

T-Spruce Lgold 7933-ET GP-81
02-05 2x 248d 20320m 4.4 904f 3.4 687p

4th Dam

Bosside Epic Yinga VG-85
02-01 3x 365d 34150m 3.7 1271f 3.3 1119p



3rd Dam: Endco Yoder L7933 9839-ET

Lot 5 T-SPRUCE CONWAY 16673-ET

IVF Session

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Born 6/6/2021 Reg: 840003235976680

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1150
Milk	+1196	79%R	Cheese Merit \$		+1175
Fat	+143	+0.33%	Fluid Merit \$ \$		+970
Protein	+73	+0.12%	Gestation Len.	GMS	+1092
CFP	+216		EFI %	gEFI 11.2%	gIB 13.1%
SCS	2.79	%R	Mastitis +0.7	Fert. Index	-1.1
PL	+3.9	%R	Livability +0.5	Heifer Liv.	+1.3
DPR	-1.9	%R	HCR +0.6	CCR	-1.3
RFI	-22				
Feed Saved	+67	42%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: BB DWP\$: 1138

04/2022	GHA TYPE SUMMARY					TPI +3161
PTAT	+1.55	78%R	UDC+1.68	FLC+0.81	BSC+0.33	0 D / 0 H

			-2	-1	0	1	2
Stature	+0.37	Tall					
Strength	+0.19	Strong					
Body Depth	+0.33	Deep					
Dairy Form	+1.33	Open Rib					
Rump Angle	+0.19	Sloped					
Thurl Width	+0.46	Wide					
Rear Legs-Side	-0.05	Posty					
Rear Legs-Rear	+1.11	Straight					
Foot Angle	+0.47	Steep					
Feet & Legs Score	+0.77	High					
F. Udder Attachment	+1.48	Strong					
Rear Udder Height	+2.41	High					
Rear Udder Width	+2.71	Wide					
Udder Cleft	+0.87	Strong					
Udder Depth	+0.39	Shallow					
Front Teat Placement	+0.77	Close					
Rear Teat Placement	+1.04	Close					
Teat Length	+0.10	Long					

#2 TPI, #3 CFP, #3 CM\$, #2 FE

Averaging 14 oocytes per IVF session

Sire: Sandy-Valley R Conway-ET

3148929379 4/22 PTA +2982 GTPI +660 M

81% +111 F +0.30% +54 P +939 NM\$ +4.0 PL

+0.7 DPR 2.86 SCS +1.45 T +1.36 UDC +0.69 FLC

Renegade x Granite

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI

+2143 M +139 F +1108 NM\$

+3.2 PL -2.6 DPR +1.55 T +1.45 UDC

Sire: Mr T-Spruce Frazz Lionel-ET

3rd Dam

Endco Yoder L7933 9839-ET VG-86

05-05 3x 350d 34320m 4.5 1560f 3.7

1255p

4th Dam

T-Spruce Lgold 7933-ET GP-81

02-05 2x 248d 20320m 4.4 904f 3.4 687p

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320-493-9703

Future Opportunity Sale



T-Spruce Parfect 16071-ET



2nd Dam: Endco Yoder L7933 9839-ET VG-86

Lot 6

T-SPRUCE PARFECT 16071-ET

Born 02/17/2021 Reg: 840003220248079

04/2022	CDCB SUMMARY GENOMICCOW				NM\$ +942
Milk	+1973	79%R	Cheese Merit \$		+952
Fat	+115	+0.13%	Fluid Merit \$ S		+878
Protein	+72	+0.04%	Gestation Len.	GMS	+876
CFP	+187		EFI %	gEFI 11.1% gIB 12.2%	
SCS	2.87	%R	Mastitis +1.3	Fert. Index -1.1	
PL	+2.9	%R	Livability +0.0	Heifer Liv. +0.9	
DPR	-2.1	%R	HCR +1.3	CCR -1.9	
RFI	+3				
Feed Saved	-121	43%R		0 Dtrs 0 Herds % US	

Beta: A2A2 Kappa: AB DWP\$: 828

04/2022	GHA TYPE SUMMARY				TPI +3070
PTAT +2.24	78%R	UDC+2.15	FLC+1.20	BSC +1.39	0 D / 0 H
					-2 -1 0 1 2
Stature	+1.18	Tall			
Strength	+1.40	Strong			
Body Depth	+1.57	Deep			
Dairy Form	+2.10	Open Rib			
Rump Angle	+0.10	Sloped			
Thurl Width	+2.10	Wide			
Rear Legs-Side	-0.80	Posty			
Rear Legs-Rear	+1.82	Straight			
Foot Angle	+1.38	Steep			
Feet & Legs Score	+1.25	High			
F. Udder Attachment	+1.98	Strong			
Rear Udder Height	+3.35	High			
Rear Udder Width	+4.11	Wide			
Udder Cleft	+1.19	Strong			
Udder Depth	+0.17	Shallow			
Front Teat Placement	+1.44	Close			
Rear Teat Placement	+1.43	Close			
Teat Length	+0.19	Long			

Full Brother at 3252 GTPI

Averaging 27 oocytes per IVF session

Sire: Siemers Rengd Parfect-ET

3200124761 4/22 PTA +3072 GTPI +1231
 82% +99 F +0.18% +62 P +888 NM\$ +3.8 PL
 +0.2 DPR 2.94 SCS +2.48 T +2.29 UDC +1.78 FLC
 Renegade x Delta-Lambda

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
 +2143 M +139 F +1108 NM\$
 +3.2 PL -2.6 DPR +1.55 T +1.45 UDC
 Sire: Mr T-Spruce Frazz Lionel-ET

2nd Dam

Endco Yoder L7933 9839-ET VG-86
 05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

3rd Dam

T-Spruce Lgold 7933-ET GP-81
 02-05 2x 248d 20320m 4.4 904f 3.4 687p

4th Dam

Bosside Epic Yinga VG-85
 02-01 3x 365d 34150m 3.7 1271f 3.3 1119p

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Future Opportunity Sale



4th Dam: Pine-Tree 9882 Prof 7019-ET

Lot 7 PINE-TREE 8495 OUTCOME 9295-ET

IVF Session

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Born 10/30/2021 Reg: 840003240345496

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1116
Milk	+1451	79%R	Cheese Merit S		+1138
Fat	+100	+0.15%	Fluid Merit S S		+989
Protein	+68	+0.08%	Gestation Len.	GMS	+1060
CFP	+168		EFI %	gEFI 12.1%	
SCS	2.60	%R	Mastitis +3.0	Fert. Index +0.8	
PL	+6.8	%R	Livability +2.1	Heifer Liv. +1.0	
DPR	+0.4	%R	HCR +0.5	CCR +1.9	
RFI	+69				
Feed Saved	+17	43%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: BB DWP\$: 1233

04/2022	GHA TYPE SUMMARY				TPI +3094
PTAT +1.12	78%R	UDC+1.39	FLC+0.55	BSC +0.11	0 D / 0 H
Stature	+0.30	Tall			
Strength	-0.31	Frail			
Body Depth	-0.21	Shallow			
Dairy Form	+1.10	Open Rib			
Rump Angle	-0.84	High Pins			
Thurl Width	+0.73	Wide			
Rear Legs-Side	+0.59	Sickle			
Rear Legs-Rear	+0.46	Straight			
Foot Angle	+0.07	Steep			
Feet & Legs Score	+0.66	High			
F. Udder Attachment	+1.35	Strong			
Rear Udder Height	+2.00	High			
Rear Udder Width	+1.98	Wide			
Udder Cleft	+0.46	Strong			
Udder Depth	+0.72	Shallow			
Front Teat Placement	+0.53	Close			
Rear Teat Placement	+0.29	Close			
Teat Length	-0.26	Short			

IVF from this donor with Pro, A2A2, Milk, SCC & Mast

5/11/2022 made 22 oocytes

Sire: Ladys-Manor Outcome-ET

3200270290 4/22 PTA +3033 GTPI +928 M
82% +100 F 0.22% +49 P +927 NM\$ +4.4 PL
+1.5 DPR 2.75 SCS +1.53 T +2.18 UDC +0.93 FLC
Challenger x Granite

Dam: Pine-Tree 7739 Lega 8495-ET

Reg: 3150675567 4/22 PTA +2908 GTPI
+791 M +78 M +938 NM\$
+6.5 PL +1.0 DPR +0.35 T +0.71 UDC
Sire: Pine-TRee Cw Legacy-ET

*1-11 211 days, 15,143 4.8F 723 3.9P 584 inc.
*Pregnant, last test 72 lbs with a 4.9P 4.1P.

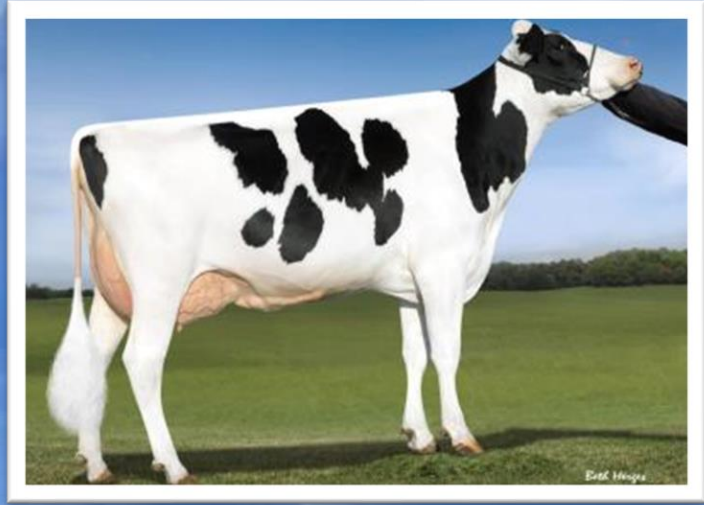
Pine-Tree Dairy
8586 Benner Rd
Marshallville, OH 44645
Pinetreedairy@gmail.com
Ethan – 330-466-8916

3rd Dam
Pine-TRee 7019 Guar 7739-ET
03-02 2x 365d 39350m 4.6 1822f 3.5 1371p
4th Dam
Pine-Tree 9882 Prof 7019-ET VG-86
02-04 3x 365d 39160m 4.1 1601f 3.4 1312p

Future Opportunity Sale



2nd Dam: Pine-TRee 9882 Prof 7019-ET



3rd Dam: Ocd Supersire 9882-ET

Lot 8

MAJR 618 CONWAY 768

Born 03/01/2022 Reg: 840003247330106

05/2022	CDCB SUMMARY GENOMICCOW				NMS +1076
Milk	+1056	79%R	Cheese Merit S		+1097
Fat	+113	+0.25%	Fluid Merit S S		+939
Protein	+59	+0.09%	Gestation Len.	GMS	+1039
CFP	+172		EFI %	gEFI 10.9%	gIB 15.1%
SCS	2.72	%R	Mastitis +3.2	Fert. Index	+0.9
PL	+5.7	%R	Livability +1.6	Heifer Liv.	+1.4
DPR	+0.1	%R	HCR +2.3	CCR	+1.6
RFI	-30				
Feed Saved	+104	42%R		0 Dtrs 0 Herds	% US

Beta: A2A2 Kappa: BB DWP\$: 1311

05/2022	GHA TYPE SUMMARY				TPI +3059
PTAT	+1.35	78%R	UDC+1.41	FLC+0.16	BSC +0.54 0 D / 0 H

			-2	-1	0	1	2
Stature	+1.05	Tall					
Strength	-0.13	Frail					
Body Depth	+0.16	Deep					
Dairy Form	+1.45	Open Rib					
Rump Angle	+0.62	Sloped					
Thurl Width	+0.21	Wide					
Rear Legs-Side	+1.25	Sickle					
Rear Legs-Rear	+0.46	Straight					
Foot Angle	-0.34	Low					
Feet & Legs Score	+0.44	High					
F. Udder Attachment	+1.49	Strong					
Rear Udder Height	+1.77	High					
Rear Udder Width	+1.90	Wide					
Udder Cleft	+1.02	Strong					
Udder Depth	+1.45	Shallow					
Front Teat Placement	+1.71	Close					
Rear Teat Placement	+1.66	Close					
Teat Length	-1.07	Short					

Joe and Kenny Ramsier
 Ramsier's Willow Spring Farm
 2477 Eastern Rd
 Rittman, OH 44270
 ramsier.12@buckeyemail.osu.edu
 Kenny 234-956-4100

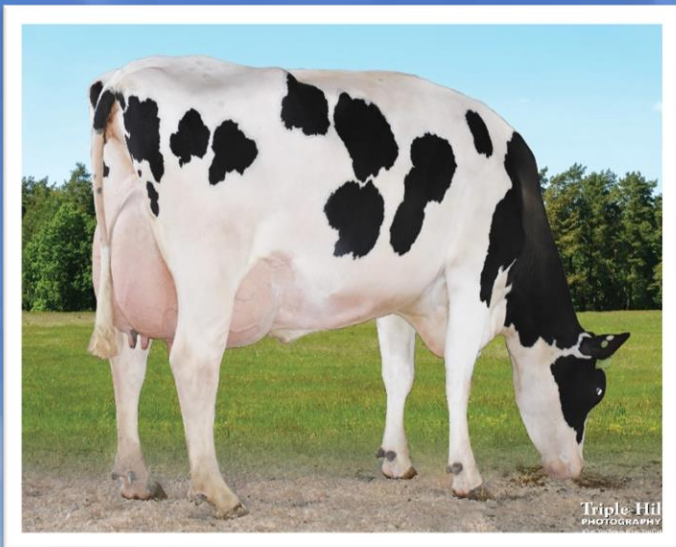
Sire: Sandy-Valley R Conway-ET

3148929379 4/22 PTA +2982 GTPI +660 M
 81% +111 F +0.30% +54 P +939 NM\$ +4.0 PL
 +0.7 DPR 2.86 SCS +1.45 T +1.36 UDC +0.69 FLC
 Renegade x Granite

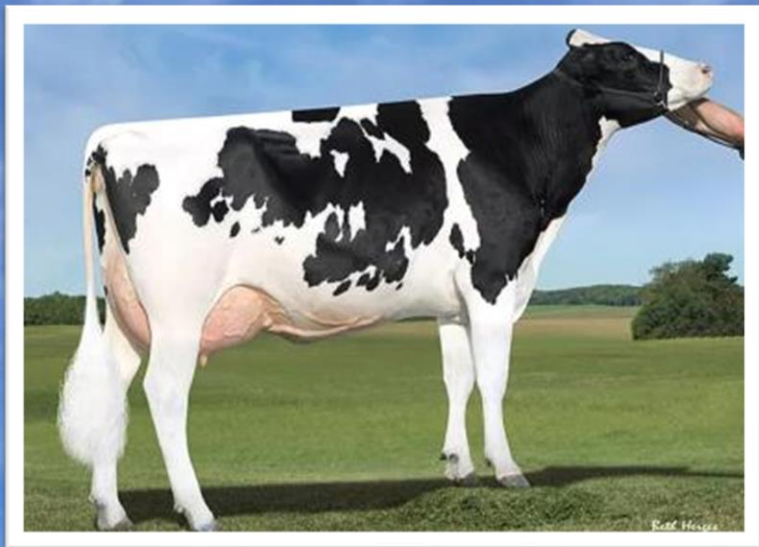
Dam: Pine-Tree 7019 Rome 618-ET

Reg: 3213277308 4/22 PTA +2885 GTPI
 +1771 M +88 F +67 P +996 NM\$
 +6.3 PL -0.1 DPR +0.36 T +0.07 UDC
 Sire: De-Su Frazzld Rome 14192-ET
 *Milking 90 lbs with a 3.8 fat and 3.05

2nd Dam	Pine-TRee 9882 Prof 7019-ET VG-86 02-04 3x 365d 39160m 4.1 1601f 3.4 1312p
3rd Dam	Ocd Supersire 9882-ET VG-86 02-01 3x 365d 31870m 4.1 1310f 3.2 1023p
4th Dam	Ocd Robust Shimmer-ET EX-90 02-03 3x 365d 34350m 3.5 1200f 3.0 1021p



2nd Dam: Pine-TREE Era Achie 7593-ET



3rd Dam: Sandy-Valley Morgan Era-ET

Lot 9 PINE-TREE 8418 Rayshen 711-ET

Born 7/1/2021 Reg: 840003228682781

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1092
Milk	+1265	79%R	Cheese Merit \$		+1118
Fat	+112	+0.22%	Fluid Merit \$ \$		+935
Protein	+69	+0.10%	Gestation Len.	GMS	+1048
CFP	+181		EFI %	gEFI	11.5%
SCS	2.61	%R	Mastitis	+3.4	Fert. Index +0.5
PL	+5.6	%R	Livability	+0.9	Heifer Liv. +0.9
DPR	+0.1	%R	HCR	-0.1	CCR +1.4
RFI	-24				
Feed Saved	+39	42%R		0 Dtrs	0 Herds % US

Beta: A2A2 Kappa: BB DWP\$: 1260 **HH6**

04/2022	GHA TYPE SUMMARY				TPI +3002
PTAT +0.36	77%R	UDC+0.25	FLC-0.17	BSC +0.88	0 D / 0 H
Stature	+1.21	Tall			
Strength	+0.29	Strong			
Body Depth	+0.61	Deep			
Dairy Form	+1.68	Open Rib			
Rump Angle	+0.85	Sloped			
Thurl Width	+0.94	Wide			
Rear Legs-Side	+0.80	Sickle			
Rear Legs-Rear	-0.26	Hook In			
Foot Angle	-0.05	Low			
Feet & Legs Score	+0.23	High			
F. Udder Attachment	-0.08	Loose			
Rear Udder Height	+0.68	High			
Rear Udder Width	+1.22	Wide			
Udder Cleft	+0.45	Strong			
Udder Depth	-0.17	Deep			
Front Teat Placement	+0.81	Close			
Rear Teat Placement	+0.97	Close			
Teat Length	-0.03	Short			

IVF- Age Donor Sells

Averaged 6.75 embryos/IVF thus far

Sire: Peak Rayshen-ET

CAN000013353469 4/22 PTA +2981 GTPI +1636 M
82% +111 F +0.16% +76 P +1053NM\$ +4.3 PL
-1.2 DPR 2.70 SCS +0.65 T +0.70 UDC -0.34 FLC
Guinness X Altatopshot

Dam: PINE-TREE 7593 PURS 8418-ET

Reg: 3150675490 4/22 PTA +2945 GTPI
+1503 M +99 F +1068 NM\$
+6.2 PL -0.5 DPR +0.61 T +0.48 UDC
Sire: Pine-Tree-I Pursuit

* Score GP 83

*2-1 217 days 19,904 5.3F 1049 3.6P 722 inc

2nd Dam

Pine-Tree Era Achie 7593-ET GP- 82
01-10 3x 365d 35130m 5.0 1758f 3.1 1084p

3rd Dam

Sandy-Valley Morgan Era-ET GP- 83
02-02 2x 365d 34790m 4.2 1450f 3.4 1192p

4th Dam

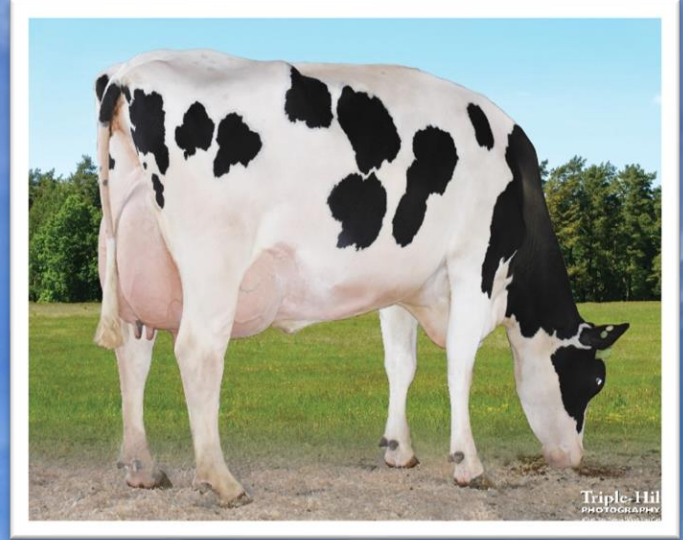
Sandy-Valley Rbs Emerald-ET VG-88
03-11 2x 348d 42010m 4.2 1771f 3.1 1316p

Pine-Tree Dairy
8586 Benner Rd
Marshallville, OH 44645
Pinetreedairy@gmail.com
Ethan - 330-466-8916

Future Opportunity Sale



Dam: PINE-TREE 7593 PURS 8418-ET



2nd Dam: Pine-TRee Era Achie 7593-ET

Triple Hill PHOTOGRAPHY

Lot 10 PINE-TREE 8418 OUTCOME 716-ET

IVF- Age, DPR, SCS/Mast, Outcome x Pursuit

Born 8/9/2021 Reg: 840003228682786

Made 25 oocytes, 6 embryos
on her only IVF

Pine-Tree Dairy
8586 Benner Rd
Marshallville, OH 44645
Pinetreedairy@gmail.com
Ethan – 330-466-8916

04/2022	CDCB SUMMARY GENOMICCOW				NMS\$ +963
Milk	+1370	79%R	Cheese Merit \$		+975
Fat	+87	+0.12%	Fluid Merit \$ \$		+895
Protein	+54	+0.04%	Gestation Len.	GMS	+953
CFP	+141		EFI %	gEFI 12.2%	
SCS	2.77	%R	Mastitis +2.2	Fert. Index +1.9	
PL	+5.5	%R	Livability +1.6	Heifer Liv. +0.5	
DPR	+1.3	%R	HCR +2.7	CCR +2.2	
RFI	+36				
Feed Saved	+67	43%R	0 Dtrs	0 Herds	% US

Beta: A1A2 Kappa: BE DWP\$: 1079

04/2022	GHA TYPE SUMMARY				TPI +3001
PTAT +1.41	78%R	UDC+1.98	FLC+0.49	BSC +0.12	0 D / 0 H
Stature	+0.25	Tall			
Strength	-0.37	Frail			
Body Depth	-0.22	Shallow			
Dairy Form	+1.40	Open Rib			
Rump Angle	-0.87	High Pins			
Thurl Width	+1.24	Wide			
Rear Legs-Side	+1.28	Sickle			
Rear Legs-Rear	+0.30	Straight			
Foot Angle	+0.12	Steep			
Feet & Legs Score	+0.64	High			
F. Udder Attachment	+1.73	Strong			
Rear Udder Height	+2.79	High			
Rear Udder Width	+2.51	Wide			
Udder Cleft	+1.17	Strong			
Udder Depth	+0.94	Shallow			
Front Teat Placement	+0.98	Close			
Rear Teat Placement	+1.41	Close			
Teat Length	+0.43	Long			

Sire: Ladys-Manor Outcome-ET

3200270290 4/22 PTA +3033 GTPI +928 M
82% +100 F 0.22% +49 P +927 NM\$ +4.4 PL
+1.5 DPR 2.75 SCS +1.53 T +2.18 UDC +0.93 FLC
Challenger x Granite

Dam: PINE-TREE 7593 PURS 8418-ET

Reg: 3150675490 4/22 PTA +2945 GTPI
+1503 M +99 F +60 P +1068NM\$
+6.2 PL -0.5 DPR +0.61 T +0.48 UDC

Sire: Pine-TRee-I Pursuit

* Score GP 83

*2-1 217 days 19,904 5.3F 1049 3.6P 722 inc

2nd Dam

Pine-Tree Era Achie 7593-ET GP- 82
01-10 3x 365d 35130m 5.0 1758f 3.1 1084p

3rd Dam

Sandy-Valley Morgan Era-ET GP -83
02-02 2x 365d 34790m 4.2 1450f 3.4 1192p

4th Dam

Sandy-Valley Rbs Emerald-ET VG-88
03-11 2x 348d 42010m 4.2 1771f 3.1 1316p

Future Opportunity Sale



MS T-Spruce Upside 18079-ET

Lot 11 MS T-SPRUCE UPSIDE 18079-ET

Born 02/13/2022 Reg: 840003243332333

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1109
Milk	+1161	78%R	Cheese Merit \$		+1120
Fat	+103	+0.20%	Fluid Merit \$ \$		+1038
Protein	+49	+0.04%	Gestation Len.	GMS	+1117
CFP	+152		EFI %	gEFI 11.4% glB 18.8%	
SCS	2.86	%R	Mastitis +0.9	Fert. Index	+2.6
PL	+6.3	%R	Livability +2.8	Heifer Liv.	+1.4
DPR	+2.0	%R	HCR +2.4	CCR +3.7	
RFI	-20				
Feed Saved	+287	42%R		0 Dtrs 0 Herds % US	

Beta: A2A2 Kappa: AA DWP\$: 1255

04/2022	GHA TYPE SUMMARY				TPI +2979
PTAT +0.22	78%R	UDC+0.88	FLC+0.31	BSC-1.21	0 D / 0 H
Stature	-1.32	Short			
Strength	-1.17	Frail			
Body Depth	-0.94	Shallow			
Dairy Form	+0.70	Open Rib			
Rump Angle	+0.22	Sloped			
Thurl Width	-1.21	Narrow			
Rear Legs-Side	+0.21	Sickle			
Rear Legs-Rear	+0.00	Straight			
Foot Angle	-0.85	Low			
Feet & Legs Score	+0.06	High			
F. Udder Attachment	+0.40	Strong			
Rear Udder Height	+1.49	High			
Rear Udder Width	+1.38	Wide			
Udder Cleft	-0.16	Weak			
Udder Depth	-0.62	Deep			
Front Teat Placement	+0.76	Close			
Rear Teat Placement	+0.66	Close			
Teat Length	-1.70	Short			

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: Farnear Upside-ET

3147118750 4/22 PTA +2993 GTPI +1843 M
82% +84 F +0.04% +63 P +1083 NM\$ +6.5 PL
+1.4 DPR 2.80 SCS +0.95 T +1.43 UDC -0.16 FLC
Charl x Jedi

Dam: MS T-SPRUCE MXIMUS 15052-ET

Reg: 3219884625 4/22 PTA +2841 GTPI
+383 M +93 F +931 NM\$
+5.2 PL +1.2 DPR +0.39 T +1.12 UDC
Sire: Rmd-Dotterer Ssi Maximus-E

2nd Dam

Ms T-Spruce Huey 13044-ET

3rd Dam

Ms T-Spruce Dworth 11342-ET GP-82
02-08 3x 365d 39880m 4.2 1662f 3.1 1252p

4th Dam

Jauquet Yoder POrsche-ET VG-86

Future Opportunity Sale



Matcrest Payload 2566-ET

Lot 12 MATCREST PAYLOAD 2566-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 8/29/2021 Reg: 840003243348098

04/2022	CDCB SUMMARY GENOMICCOW				NM\$ +1087
Milk	+2119	76%R	Cheese Merit \$		+1097
Fat	+109	+0.09%	Fluid Merit \$ \$		+1005
Protein	+81	+0.05%	Gestation Len.	GMS	+1062
CFP	+190		EFI %	gEFI 10.5% gIB 14.8%	
SCS	2.97	%R	Mastitis +1.2	Fert. Index +0.0	
PL	+4.3	%R	Livability -0.3	Heifer Liv. +1.5	
DPR	-0.5	%R	HCR +0.9	CCR +0.2	
RFI	-48				
Feed Saved	+149	40%R		0 Dtrs 0 Herds % US	

Beta: A1A2

04/2022	GHA TYPE SUMMARY				TPI +3063
PTAT +1.15	75%R	UDC+1.39	FLC+0.64	BSC+0.42	0 D / 0 H
Stature	+0.87	Tall			
Strength	-0.29	Frail			
Body Depth	-0.02	Shallow			
Dairy Form	+1.62	Open Rib			
Rump Angle	-0.12	High Pins			
Thurl Width	+0.59	Wide			
Rear Legs-Side	+0.47	Sickle			
Rear Legs-Rear	+1.01	Straight			
Foot Angle	+0.56	Steep			
Feet & Legs Score	+0.73	High			
F. Udder Attachment	+1.20	Strong			
Rear Udder Height	+2.11	High			
Rear Udder Width	+1.79	Wide			
Udder Cleft	+0.91	Strong			
Udder Depth	+1.03	Shallow			
Front Teat Placement	+1.04	Close			
Rear Teat Placement	+1.17	Close			
Teat Length	-0.13	Short			

Sire: S-S-I Eisaku Payload-ET

3211394853 4/22 PTA +2917 GTPI +1993 M
 82% +88 F +0.04% +72 P +944 NM\$ +4.5 PL
 -0.9 DPR 3.00 SCS +1.32 T +0.93 UDC +1.05 FLC
 Eisaku x Matters

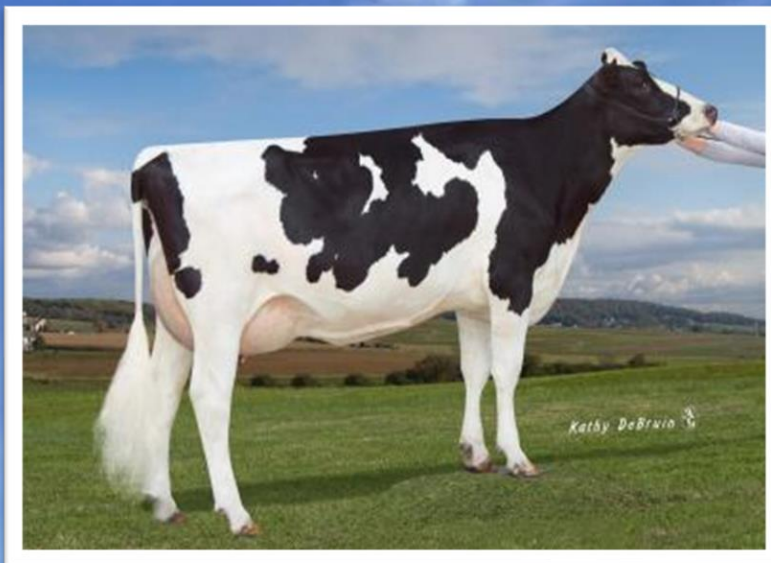
Dam: MATCREST RENEGADE 9826-ET

Reg: 3206114433 4/22 PTA +2957 GTPI
 +1057 M +96 F +856 NM\$
 +4.2 PL +1.7 DPR +1.21 T +1.43 UDC
 Sire: S-S-I Pr Renegade-ET

*Due in July

3rd Dam
 Matcrest Blowtorch 1641-ET VG-86
4th Dam
 T-Spruce Racer 8686-ET VG-85
 02-07 2x 305d 23590m 3.9 919f 3.1 739p

Matt Johnson
 Johnson Holsteins
 1963 110th Avenue
 Baldwin WI, 54002
 mj1466@hotmail.com
 1-715-977-0991



3rd Dam: Endco Yoder L7933 9839-ET VG-86

Lot 13

T-SPRUCE TAOS 15384-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 11/1/2020 Reg: 840003219884957

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1089
Milk	+2572	79%R	Cheese Merit S		+1093
Fat	+106	+0.02%	Fluid Merit S S		+1063
Protein	+82	+0.01%	Gestation Len.	GMS	+1040
CFP	+188		EFI %	gEFI 10.8%	gIB 12.0%
SCS	2.90	%R	Mastitis +0.8	Fert. Index	+1.0
PL	+5.7	%R	Livability +0.7	Heifer Liv.	+1.5
DPR	+0.3	%R	HCR +2.1	CCR	+1.5
RFI	+22				
Feed Saved	-149	43%R	0 Dtrs	0 Herds	% US

Beta: A1A2 Kappa: AB DWP\$: 1040

04/2022	GHA TYPE SUMMARY				TPI +3149		
PTAT +1.77	77%R	UDC+1.52	FLC+0.71	BSC +1.18	0 D / 0 H		
			-2	-1	0	1	2
Stature	+1.40	Tall					
Strength	+1.01	Strong					
Body Depth	+0.74	Deep					
Dairy Form	+1.02	Open Rib					
Rump Angle	-0.15	High Pins					
Thurl Width	+1.21	Wide					
Rear Legs-Side	-0.57	Posty					
Rear Legs-Rear	+1.41	Straight					
Foot Angle	+0.95	Steep					
Feet & Legs Score	+0.84	High					
F. Udder Attachment	+1.72	Strong					
Rear Udder Height	+2.37	High					
Rear Udder Width	+2.75	Wide					
Udder Cleft	+0.70	Strong					
Udder Depth	+1.05	Shallow					
Front Teat Placement	+0.30	Close					
Rear Teat Placement	+0.41	Close					
Teat Length	+0.97	Long					

#1 Milk, #2 Pro.
#2 Taos Daughter in the breed
Averaging 14 oocytes per IVF session

Sire: Leaninghouse Taos-ET

3151003682 4/22 PTA +2990 GTPI +1349 M
 81% +80 F +0.10% +62 P +913 NM\$ +5.7 PL
 +2.6 DPR 2.73 SCS +1.32 T +1.46 UDC +0.35 FLC
 Renegade x Jedi

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
 +2143 M +139 F +1108 NM\$
 +3.2 PL -2.6 DPR +1.55 T +1.45 UDC
 Sire: Mr T-Spruce Frazz Lionel-ET

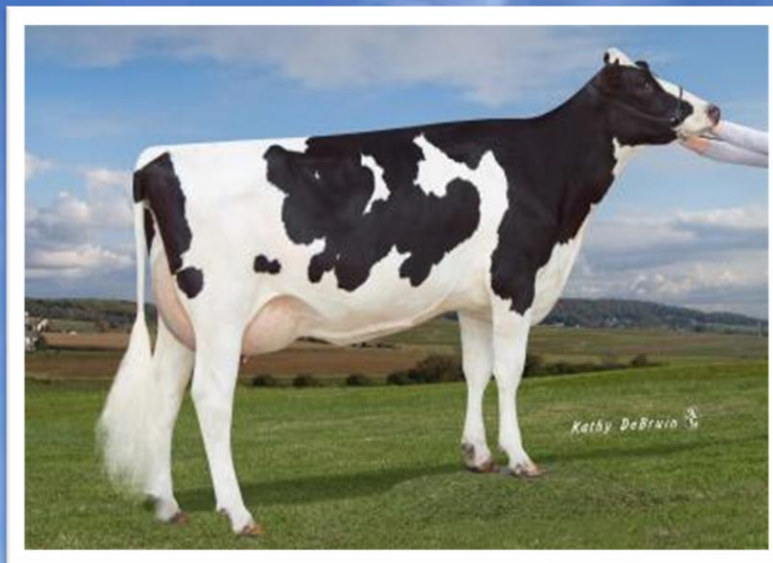
3rd Dam

Endco Yoder L7933 9839-ET VG-86
 05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

4th Dam

T-Spruce Lgold 7933-ET GP-81
 02-05 2x 248d 20320m 4.4 904f 3.4 687p

Arnie Gruenes
 Twin Spruce Farm
 17565 Co Rd 43
 Richmond, MN 56368
 Cows@meltel.net
 320-493-9703



3rd Dam: Endco Yoder L7933 9839-ET VG-86

Lot 14 T-SPRUCE GAMEDAY 16871-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Averaging 9 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@melitel.net
320-493-9703

Born 7/22/2021 Reg 840003235976878

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1124
Milk	+540	79%R	Cheese Merit \$		+1152
Fat	+137	+0.41%	Fluid Merit \$ \$		+925
Protein	+57	+0.14%	Gestation Len.	GMS	+1081
CFP	+194		EFI %	gEFI 10.8% gIB 17.2%	
SCS	2.73	%R	Mastitis +2.4	Fert. Index	+0.3
PL	+5.4	%R	Livability +2.1	Heifer Liv.	+0.9
DPR	-0.1	%R	HCR +1.9	CCR +0.8	
RFI	+5				
Feed Saved	+4	43%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: AB DWPS: 1143

04/2022	GHA TYPE SUMMARY				TPI +3134
PTAT +1.42	78%R	UDC+1.43	FLC+0.50	BSC +0.17	0 D / 0 H
					-2 -1 0 1 2
Stature	+0.27	Tall			
Strength	+0.10	Strong			
Body Depth	-0.13	Shallow			
Dairy Form	+0.50	Open Rib			
Rump Angle	+0.21	Sloped			
Thurl Width	+0.34	Wide			
Rear Legs-Side	-0.20	Posty			
Rear Legs-Rear	+0.74	Straight			
Foot Angle	+0.58	Steep			
Feet & Legs Score	+0.45	High			
F. Udder Attachment	+1.39	Strong			
Rear Udder Height	+2.12	High			
Rear Udder Width	+2.06	Wide			
Udder Cleft	+0.10	Strong			
Udder Depth	+0.98	Shallow			
Front Teat Placement	+0.46	Close			
Rear Teat Placement	+0.34	Close			
Teat Length	-1.05	Short			

Sire: Rmd-Dotterer Ssi Gameday-ET

3205704153 4/22 PTA +3069 GTPI +994 M
82% +118 F +0.28% +52 P +1096 NM\$ +6.4 PL
+0.2 DPR 2.63 SCS +1.43 T +1.56 UDC +0.32 FLC
Big Al x BLOWtorch

Dam: MERCEDES LIONEL LASS-ET

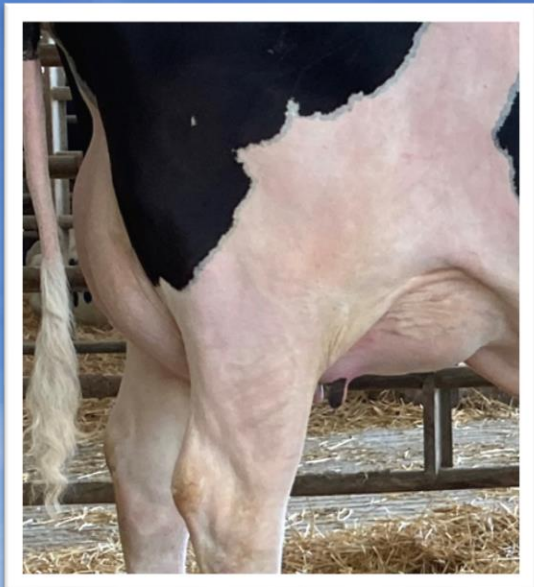
Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

3rd Dam

Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

4th Dam

T-Spruce Lgold 7933-ET GP-81
02-05 2x 248d 20320m 4.4 904f 3.4 687p



Dam: T-Spruce Lionel 13196-ET

Lot 15 T-SPRUCE MAHOMES 17475-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

#1 Mahomes Daughter in the breed

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Born 11/14/2021 Reg 840003243331729

04/2022	CDCB SUMMARY GENOMICCOW				NM\$ +1021
Milk	+1423	78%R	Cheese Merit S		+1041
Fat	+111	+0.19%	Fluid Merit S S		+889
Protein	+69	+0.08%	Gestation Len.	GMS	+981
CFP	+180		EFI %	gEFI 11.7%	gIB 19.4%
SCS	2.73	%R	Mastitis	+2.6	Fert. Index +0.7
PL	+4.4	%R	Livability	+0.4	Heifer Liv. +1.5
DPR	-0.4	%R	HCR	+1.6	CCR +1.1
RFI	-40				
Feed Saved	-90	42%R		0 Dtrs 0 Herds	% US

Beta: A2A2 Kappa: AB DWP\$: 1073

04/2022	GHA TYPE SUMMARY				TPI +3117	
PTAT	+2.07	76%R	UDC+1.93	FLC+0.42	BSC +1.53	0 D / 0 H
Stature	+1.72	Tall				
Strength	+1.29	Strong				
Body Depth	+1.32	Deep				
Dairy Form	+1.75	Open Rib				
Rump Angle	-0.33	High Pins				
Thurl Width	+1.49	Wide				
Rear Legs-Side	+0.12	Sickle				
Rear Legs-Rear	+0.39	Straight				
Foot Angle	+0.73	Steep				
Feet & Legs Score	+0.88	High				
F. Udder Attachment	+1.94	Strong				
Rear Udder Height	+2.88	High				
Rear Udder Width	+3.29	Wide				
Udder Cleft	+1.13	Strong				
Udder Depth	+1.25	Shallow				
Front Teat Placement	+0.89	Close				
Rear Teat Placement	+1.09	Close				
Teat Length	+0.23	Long				

Sire: Progenesis Mahomes

CAN000013442781 4/22 PTA +2890 GTPI +1238 M
79% +72 F +0.08% +52 P +930 NM\$ +5.8 PL
+1.2 DPR 2.71 SCS +0.90 T +1.56 UDC +0.23 FLC
Eldorado x Milktime

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +0.056 UDC
Sire: T-Spruce Frazz Lionel-ET

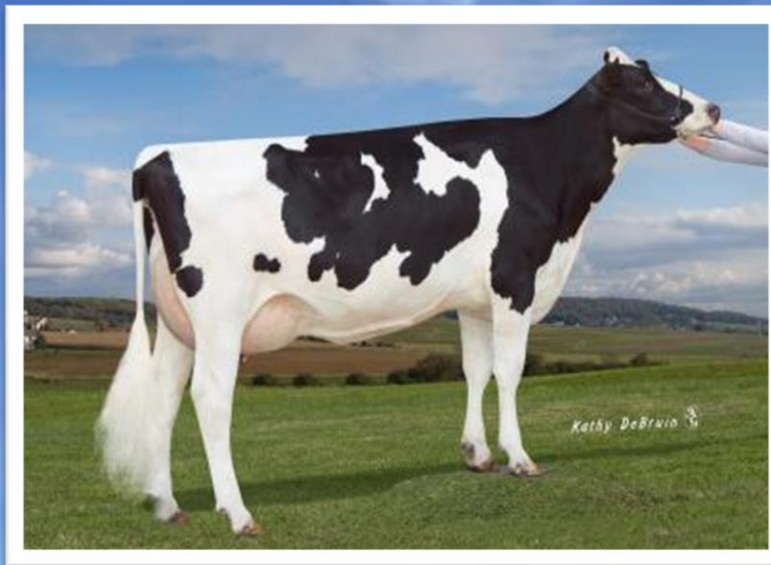
*Fresh on 4/12/2022 Milking 90 lbs
*Dam of T-SPRUCE G FROST BITE-ET

3rd Dam

T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET

4th Dam

MERCEDES TS 9539-ET GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p



3rd Dam: Endco Yoder L7933 9839-ET

Lot 16 T-SPRUCE PROLOGUE 17497-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 11/18/2021 Reg 840003243331751

#1 Prologue Daughter in the breed

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

04/2022	CDCB SUMMARY GENOMICCOW				NMS +985
Milk	+1145	78%R	Cheese Merit \$		+1003
Fat	+145	+0.35%	Fluid Merit \$ \$		+844
Protein	+64	+0.10%	Gestation Len.	GMS	+956
CFP	+209		EFI %	gEFI 11.5% gIB 15.1%	
SCS	2.92	%R	Mastitis +0.3	Fert. Index	-0.5
PL	+2.0	%R	Livability -0.8	Heifer Liv.	+1.4
DPR	-1.7	%R	HCR +2.0	CCR -0.3	
RFI	+36				
Feed Saved	-137	42%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: AE DWP\$: 894

04/2022	GHA TYPE SUMMARY				TPI +3116
PTAT +2.08	77%R	UDC+1.93	FLC+0.85	BSC +1.14	0 D / 0 H
					-2 -1 0 1 2
Stature	+0.94	Tall			
Strength	+1.19	Strong			
Body Depth	+1.32	Deep			
Dairy Form	+1.74	Open Rib			
Rump Angle	-1.34	High Pins			
Thurl Width	+1.79	Wide			
Rear Legs-Side	-0.60	Posty			
Rear Legs-Rear	+1.11	Straight			
Foot Angle	+1.12	Steep			
Feet & Legs Score	+0.95	High			
F. Udder Attachment	+1.99	Strong			
Rear Udder Height	+2.29	High			
Rear Udder Width	+3.31	Wide			
Udder Cleft	+1.77	Strong			
Udder Depth	+0.58	Shallow			
Front Teat Placement	+2.21	Close			
Rear Teat Placement	+2.31	Close			
Teat Length	+0.17	Long			

Sire: Progenesis Prologue

CAN000013638307 4/22 PTA +2948 GTPI +983 M
80% +116 F +0.27% +51 P +931NM\$ +3.9 PL
-1.0 DPR 2.85 SCS +1.28 T +1.71 UDC +0.51 FLC
Einstein x Achiever

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

3rd Dam

Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

4th Dam

T-Spruce Lgold 7933-ET GP-81
02-05 2x 248d 20320m 4.4 904f 3.4 687p

Future Opportunity Sale



3rd Dam: Endco Yoder L7933 9839-ET

Lot 17 T-SPRUCE PAYLOAD 16903-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

#3 Payload Daughter in the breed

Averaging 14 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Born 07/29/2021 Reg: 840003235976910

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1101
Milk	+1945	79%R	Cheese Merit \$		+1113
Fat	+134	+0.20%	Fluid Merit \$ \$		+1002
Protein	+79	+0.06%	Gestation Len.	GMS	+1006
CFP	+213		EFI %	gEFI 11.5% gIB 18.1%	
SCS	2.93	%R	Mastitis +0.0	Fert. Index	-1.4
PL	+4.1	%R	Livability +1.5	Heifer Liv.	+1.8
DPR	-2.5	%R	HCR +0.0	CCR	-1.4
RFI	-42				
Feed Saved	-47	43%R	0 Dtrs	0 Herds	% US

Beta: A1A2 Kappa: AE DWPS: 962

04/2022	GHA TYPE SUMMARY				TPI +3067
PTAT +1.29	78%R	UDC+0.68	FLC+0.63	BSC +0.73	0 D / 0 H
Stature	+0.30	Tall			
Strength	+1.08	Strong			
Body Depth	+1.00	Deep			
Dairy Form	+1.31	Open Rib			
Rump Angle	+0.02	Sloped			
Thurl Width	+1.64	Wide			
Rear Legs-Side	-0.72	Posty			
Rear Legs-Rear	+0.94	Straight			
Foot Angle	+0.74	Steep			
Feet & Legs Score	+0.58	High			
F. Udder Attachment	+0.63	Strong			
Rear Udder Height	+1.21	High			
Rear Udder Width	+2.15	Wide			
Udder Cleft	+0.11	Strong			
Udder Depth	-0.92	Deep			
Front Teat Placement	+0.54	Close			
Rear Teat Placement	+0.59	Close			
Teat Length	+0.33	Long			

Sire: S-S-I Eisaku Payload-ET

3211394853 4/22 PTA +2917 GTPI +1993 M
82% +88 F +0.04% +72 P +944 NM\$ +4.5 PL
-0.9 DPR 3.00 SCS +1.32 T +0.93 UDC +1.05 FLC
Eisaku x Matters

Dam: MERCEDES LIONEL LASS-ET

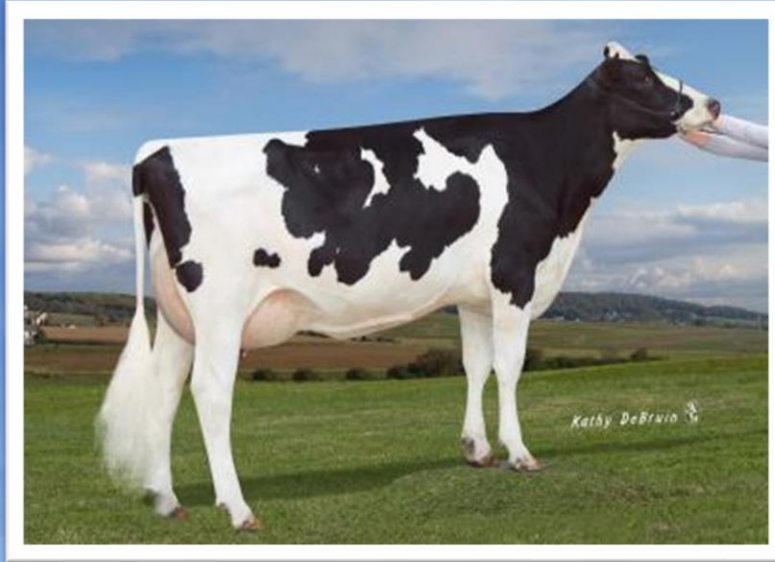
Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

3rd Dam

Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

4th Dam

T-Spruce Lgold 7933-ET GP-81
02-05 2x 248d 20320m 4.4 904f 3.4 687p



3rd Dam: Endco Yoder L7933 9839-ET

Lot 18 T-SPRUCE PARFECT 16760-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 06/25/2021 Reg: 8400032359767

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1040
Milk	+1711	79%R	Cheese Merit \$		+1053
Fat	+111	+0.15%	Fluid Merit \$ \$		+932
Protein	+74	+0.07%	Gestation Len.	GMS	+1004
CFP	+185		EFI %	gEFI 11.0%	gIB 8.9%
SCS	2.95	%R	Mastitis +0.3	Fert. Index	-0.3
PL	+3.9	%R	Livability +1.1	Heifer Liv.	+0.9
DPR	-1.0	%R	HCR +2.0	CCR	+0.2
RFI	-17				
Feed Saved	+57	42%R		0 Dtrs 0 Herds	% US

Beta: A2A2 Kappa: AB DWP\$: 1122

04/2022	GHA TYPE SUMMARY				TPI +3102
PTAT +1.97	78%R	UDC+2.05	FLC+1.18	BSC+0.77	0 D / 0 H
Stature	+0.93	Tail			
Strength	+0.32	Strong			
Body Depth	+0.62	Deep			
Dairy Form	+2.09	Open Rib			
Rump Angle	+0.30	Sloped			
Thurl Width	+1.30	Wide			
Rear Legs-Side	-0.37	Posty			
Rear Legs-Rear	+1.89	Straight			
Foot Angle	+0.75	Steep			
Feet & Legs Score	+1.22	High			
F. Udder Attachment	+1.50	Strong			
Rear Udder Height	+3.46	High			
Rear Udder Width	+3.99	Wide			
Udder Cleft	+0.83	Strong			
Udder Depth	+0.22	Shallow			
Front Teat Placement	+0.80	Close			
Rear Teat Placement	+1.05	Close			
Teat Length	-0.46	Short			

Full Brother at 3252 GTPI

Averaging 16 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: Siemers Rengd Parfect-ET

3200124761 4/22 PTA +3072 GTPI +1231
82% +99 F +0.18% +62 P +888 NM\$ +3.8 PL
+0.2 DPR 2.94 SCS +2.48 T +2.29 UDC +1.78 FLC
Renegade x Delta-Lambda

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

3rd Dam

Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

4th Dam

T-Spruce Lgold 7933-ET GP-81
02-05 2x 248d 20320m 4.4 904f 3.4 687p

Lot 19

PEN-COL G 6263-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 8/5/2021 Reg:840003227859446

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1139
Milk	+891	79%R	Cheese Merit \$		+1163
Fat	+90	+0.19%	Fluid Merit \$ \$		+993
Protein	+55	+0.09%	Gestation Len. -1	GMS	+1075
CFP	+145		EFI %	gEFI 11.4% gIB 20.4%	
SCS	2.59	%R	Mastitis +4.0	Fert. Index	+1.1
PL	+8.2	%R	Livability +3.3	Heifer Liv.	+1.5
DPR	+0.6	%R	HCR +3.3	CCR +2.2	
RFI	-20				
Feed Saved	+215	43%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: AA DWP\$: 1231

04/2022	GHA TYPE SUMMARY				TPI +3026
PTAT +0.86	78%R	UDC+1.50	FLC+0.11	BSC-0.99	0 D / 0 H
Stature	-0.72	Short			
Strength	-1.23	Frail			
Body Depth	-1.44	Shallow			
Dairy Form	-0.14	Tight			
Rump Angle	+0.73	Sloped			
Thurl Width	-1.11	Narrow			
Rear Legs-Side	-0.65	Posty			
Rear Legs-Rear	-0.15	Hock In			
Foot Angle	-0.01	Low			
Feet & Legs Score	-0.01	Low			
F. Udder Attachment	+1.62	Strong			
Rear Udder Height	+1.88	High			
Rear Udder Width	+0.99	Wide			
Udder Cleft	+0.32	Strong			
Udder Depth	+1.25	Shallow			
Front Teat Placement	+0.90	Close			
Rear Teat Placement	+0.92	Close			
Teat Length	-1.54	Short			

Last 3 sessions resulted in transfers of 2, 6 and 7 housed at TOG IA

Jim Vierhout
Nathan Johnson Co-owner
510 Railroad St., Box 563
Hull, IA 51239
jimvierhout@gmail.com
712-470-1202

Sire: Rmd-Dotterer Ssi Gameday-ET

3205704153 4/22 PTA +3069 GTPI +994 M
82% +118 F +0.28% +52 P +1096 NM\$ +6.4 PL
+0.2 DPR 2.63 SCS +1.43 T +1.56 UDC +0.32 FLC
Big AI x BLOWtorch

Dam: CHERRYPENCOL LUCILLE-ET

Reg: 3208410639 4/22 PTA +2892 GTPI
+672 M +76 F +933 NM\$
+6.7 PL +0.8 DPR +1.07 T +1.89 UDC
Sire Stack: Legacy x Rolan x Jedi

*Due in July and is outstanding!

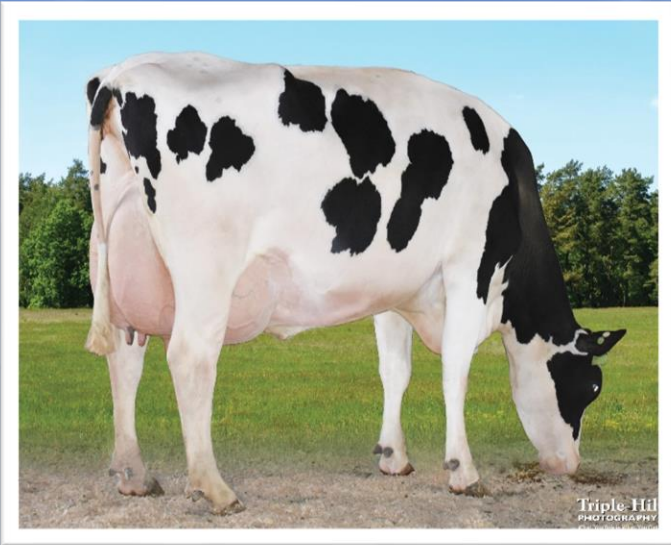
3rd Dam

Cherrypencol Lee-ET EX-91
02-04 2x 305d 23350m 4.6 1078f 3.6 837p

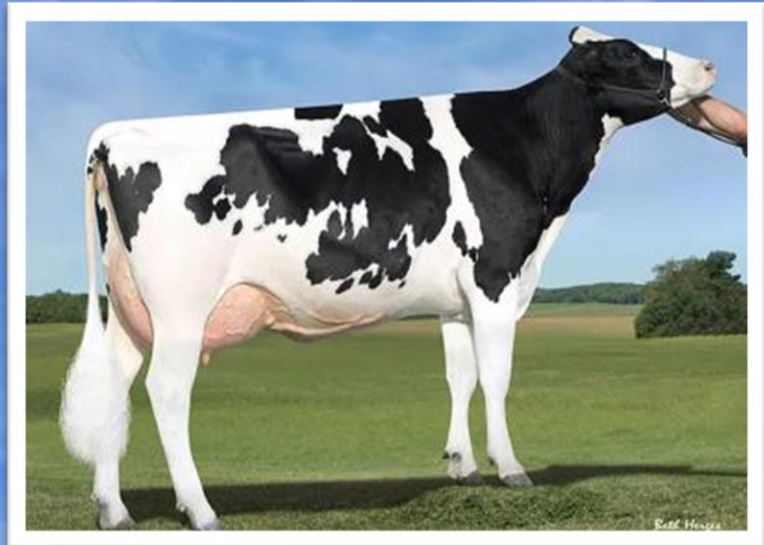
4th Dam

Cherry-Acres Jedi Lauri-ET VG-85

Future Opportunity Sale



2nd Dam: Pine-TRee Era Achie 7593-ET



3rd Dam: Sandy-Valley Morgan Era-ET

Lot 20

Pine-Tree 8418 fort 9107-ET

IVF Session

Average 15 embryos per IVF session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 06/15/2021 Reg: 840003240345308

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1095
Milk	+1801	79%R	Cheese Merit S		+1110
Fat	+102	+0.11%	Fluid Merit S S		+1017
Protein	+68	+0.04%	Gestation Len.	GMS	+1043
CFP	+170		EFI %	gEFI 11.3%	gLB 15.2%
SCS	2.63	%R	Mastitis	+1.5	Fert. Index +0.3
PL	+6.0	%R	Livability	-0.2	Heifer Liv. +1.0
DPR	-0.4	%R	HCR	+1.7	CCR +1.0
RFI	-76				
Feed Saved	+173	43%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: BB

04/2022	GHA TYPE SUMMARY				TPI +3012	
PTAT	+1.26	77%R	UDC+1.30	FLC-0.58	BSC +0.62	0 D / 0 H
Stature	+0.89	Tall				
Strength	-0.09	Frail				
Body Depth	+0.31	Deep				
Dairy Form	+2.27	Open Rib				
Rump Angle	+1.46	Sloped				
Thurl Width	+1.54	Wide				
Rear Legs-Side	+0.91	Sickle				
Rear Legs-Rear	-0.76	Hook In				
Foot Angle	-0.69	Low				
Feet & Legs Score	-0.18	Low				
F. Udder Attachment	+0.87	Strong				
Rear Udder Height	+2.05	High				
Rear Udder Width	+2.42	Wide				
Udder Cleft	+1.04	Strong				
Udder Depth	+0.46	Shallow				
Front Teat Placement	+1.00	Close				
Rear Teat Placement	+1.24	Close				
Teat Length	+0.61	Long				

Sire: Peak Fortnite-ET

3200824963 4/22 PTA +2858 GTPi +1056 M
 81% +92 F +0.18% +50 P +915 NM\$ +6.1 PL
 -1.2 DPR 2.61 SCS +1.11 T +1.65 UDC -0.12 FLC
 PPositive x Frazzled

Dam: PINE-TREE 7593 PURS 8418-ET

Reg: 3150675490 4/22 PTA +2945 GTPi
 +1503 M +99 F +60 P +1068 NM\$
 +6.2 PL -0.5 DPR +0.61 T +0.48 UDC

Sire: Pine-TRee-I Pursuit

* Score GP 83

*2-1 217 days 19,904 5.3F 1049 3.6P 722 inc

Melarry Farm
 17011 Aspen Rd Ne
 Rice MN, 56367
 spennett@jetup.net
 320-267-3180

2nd Dam

Pine-TRee Era Achie 7593-ET -GP 82
 01-10 3x 365d 35130m 5.0 1758f 3.1 1084p

3rd Dam

Sandy-Valley Morgan Era-ET - GP 83
 02-02 2x 365d 34790m 4.2 1450f 3.4 1192p

4th Dam

Sandy-Valley Rbs Emerald-ET VG-88
 03-11 2x 348d 42010m 4.2 1771f 3.1 1316p

Future Opportunity Sale



3rd Dam: Cal-Roy-Al Jennie 4713-ET

Lot 21 TERRA-LINDA DYKSTRA 1150-ET

Born 02/24/2022 Reg: 840003249796013

05/2022	CDCB SUMMARY GENOMICCOW				NMS +1044
Milk	+954	78%R	Cheese Merit \$		+1062
Fat	+103	+0.23%	Fluid Merit \$ \$		+938
Protein	+49	+0.07%	Gestation Len.	GMS	+1014
CFP	+152		EFI %	gEFI	11.0%
SCS	2.67	%R	Mastitis +2.3	Fert. Index	+1.3
PL	+6.2	%R	Livability +3.5	Heifer Liv.	+0.8
DPR	+1.0	%R	HCR +0.8	CCR	+2.7
RFI	-11				
Feed Saved	+97	42%R	0 Dtrs	0 Herds	% US

Beta: A1A2 Kappa: BB DWP\$: 1291

05/2022	GHA TYPE SUMMARY				TPI +3019	
PTAT	+1.62	76%R	UDC+1.50	FLC-0.05	BSC +0.27	0 D / 0 H
Stature	+0.59	Tall				
Strength	-0.25	Frail				
Body Depth	+0.02	Deep				
Dairy Form	+1.25	Open Rib				
Rump Angle	+0.22	Sloped				
Thurl Width	+0.37	Wide				
Rear Legs-Side	+1.00	Sickle				
Rear Legs-Rear	-0.41	Hock In				
Foot Angle	-0.06	Low				
Feet & Legs Score	+0.26	High				
F. Udder Attachment	+1.53	Strong				
Rear Udder Height	+1.72	High				
Rear Udder Width	+1.65	Wide				
Udder Cleft	+1.09	Strong				
Udder Depth	+1.71	Shallow				
Front Teat Placement	+0.40	Close				
Rear Teat Placement	+0.68	Close				
Teat Length	-0.49	Short				

#2 TPI Dykstra & #4 NM\$ Dykstra female

Sire: Farnear Dykstra-ET

3137942635 4/22 PTA +2924 GTPI +1499 M
82% +85 F +0.09% +58 P +964 NM\$ +5.8 PL
+1.0 DPR 2.72 SCS +0.93 T +1.07 UDC +0.08 FLC
Charl x Jedi

Dam: TERRA-CALROY ZAZZL JENNY-ET

Reg: 3215568849 4/22 PTA +2989 GTPI
+1054 M +113 F +53 P +1053 NM\$
+4.6 PL -1.0 DPR +1.44 T +1.72 UDC

Sire: Peak Altazazzle-ET

*Pregnant heifer that has the looks of a VG heifer

Mike Santos
Terra Linda Dairy
5000 Ave 232
Tulare CA, 93274
oomikie@aol.com
1-559-358-5345

2nd Dam
Cal-Roy-Al Tahiti 10346-ET- GP 83
32,870 305ME
*Dam of 97H42585 ZURI
3rd Dam
Cal-Roy-Al Jennie 4713-ET VG-87
*Dam of 29H18545 YODA
4th Dam
Hol-Star Liner TerOka-ET

Future Opportunity Sale



Pine-Tree 7831 Lion 600-ET

Lot 22 PINE-TREE 7831 LION 600-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Averaging 23 oocytes

Joe and Kenny Ramsier
Ramsier's Willow Spring Farm
2477 Eastern Rd
Rittman, OH 44270
ramsier.12@osu.edu
234-956-4100

Born 3/22/2020 Reg: 840003208798891

04/2022	CDCB SUMMARY GENOMIC COW				NMS +1107
Milk	+2096	82%R	Cheese Merit \$		+1118
Fat	+122	+0.14%	Fluid Merit \$ \$		+1024
Protein	+80	+0.05%	Gestation Len.	GMS	+1061
CFP	+202		EFI %	gEFI 11.3%	
SCS	2.90	%R	Mastitis +0.0	Fert. Index -0.1	
PL	+4.3	%R	Livability +0.6	Heifer Liv. +0.9	
DPR	-1.2	%R	HCR +1.7	CCR +0.7	
RFI	-41				
Feed Saved	+86	44%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: AB DWP\$: 1110

04/2022	GHA TYPE SUMMARY				TPI +3028
PTAT +0.66	80%R	UDC+0.55	FLC+0.04	BSC+0.01	0 D / 0 H
Stature	-0.29	Short			
Strength	+0.28	Strong			
Body Depth	+0.25	Deep			
Dairy Form	+1.15	Open Rib			
Rump Angle	-0.09	High Pins			
Thurl Width	+0.52	Wide			
Rear Legs-Side	-0.10	Posty			
Rear Legs-Rear	-0.20	Hock In			
Foot Angle	-0.56	Low			
Feet & Legs Score	+0.07	High			
F. Udder Attachment	-0.07	Loose			
Rear Udder Height	+1.15	High			
Rear Udder Width	+1.92	Wide			
Udder Cleft	-0.27	Weak			
Udder Depth	-0.90	Deep			
Front Teat Placement	-0.03	Wide			
Rear Teat Placement	-0.03	Wide			
Teat Length	-0.03	Short			

Sire: Mr T-Spruce Frazz Lionel-ET

3142490309 4/22 PTA +3172 GTPI +3397 M
99% +152 F +0.07% + 43 P +1255 NM\$ +5.5 PL
-2.8 DPR 2.89 SCS +.056 T +0.61 UDC -0.41 FLC
Frazzled x Montross

Dam: PINE-TREE 5976 PROP 7831-ET

Reg: 3145982777 4/22 PTA +2793 GTPI
+429 M +96 F +889 NM\$
+4.2 PL -0.3 DPR +0.62 T +0.72 UDC
Sire: Pine-TREE Prophecy-ET

*GP-80

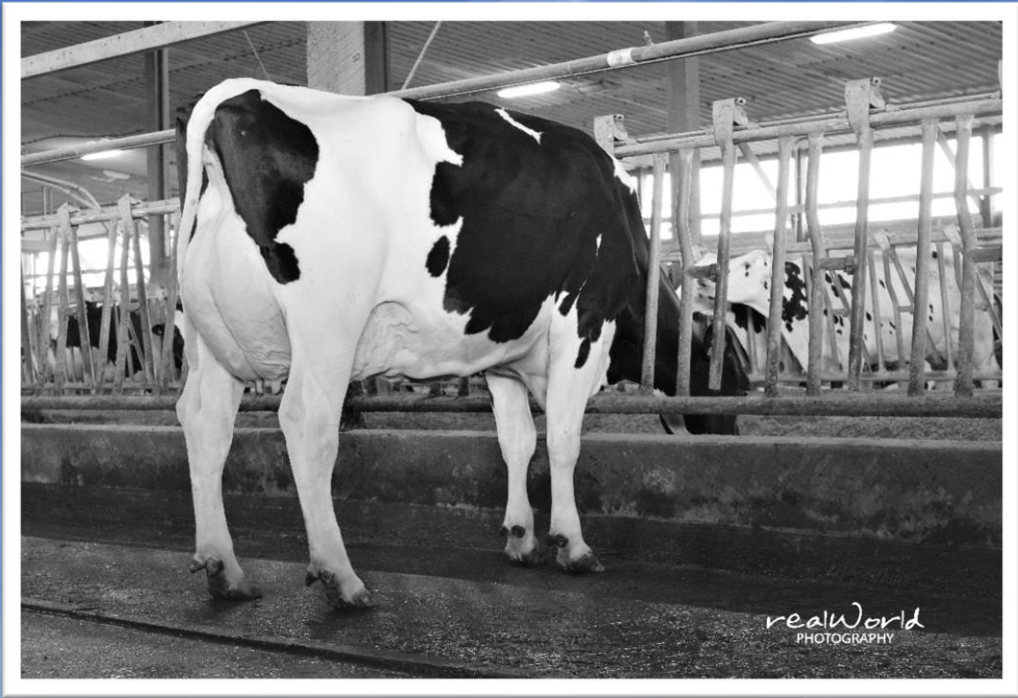
*milking 104 lbs with a 3.1 fat and 3.25 protein

3rd Dam

Sandy-Valley No Limit-ET VG-85
03-05 3x 365d 31760m 4.8 1539f 3.4 1089p

4th Dam

Pine-Tree Monica Planeta-ET VG-86
02-01 2x 365d 30680m 3.7 1146f 3.4 1054p



2nd Dam: BLumenfeld Reason 6273-ET

Lot 23 Blumenfeld Supercharge 8044-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 11/07/2021 Reg: 840003247080831

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1165
Milk	+1590	78%R	Cheese Merit \$		+1180
Fat	+99	+0.13%	Fluid Merit \$ \$		+1080
Protein	+64	+0.05%	Gestation Len.	GMS	+1083
CFP	+163		EFI %	gEFI 10.5%	
SCS	2.73	%R	Mastitis +2.5	Fert. Index	-0.3
PL	+6.7	%R	Livability +2.7	Heifer Liv.	+1.1
DPR	-1.5	%R	HCR +1.8	CCR	+0.7
RFI	-158				
Feed Saved	+365	42%R		0 Dtrs 0 Herds % US	

Beta:A1A2 Kappa: BE DWPS: 1204

04/2022	GHA TYPE SUMMARY				TPI +3021
PTAT +1.05	77%R	UDC+1.68	FLC-0.06	BSC-0.45	0 D / 0 H
Stature	-0.14	Short			
Strength	-0.95	Frail			
Body Depth	-0.70	Shallow			
Dairy Form	+1.14	Open Rib			
Rump Angle	-0.84	High Pins			
Thurl Width	-0.37	Narrow			
Rear Legs-Side	+0.36	Sickle			
Rear Legs-Rear	-0.20	Hock In			
Foot Angle	-0.04	Low			
Feet & Legs Score	-0.05	Low			
F. Udder Attachment	+1.97	Strong			
Rear Udder Height	+2.06	High			
Rear Udder Width	+1.72	Wide			
Udder Cleft	+0.45	Strong			
Udder Depth	+1.38	Shallow			
Front Teat Placement	+0.67	Close			
Rear Teat Placement	+0.33	Close			
Teat Length	-0.97	Short			

Sire: Sandy-Valley Supercharge-ET
 3148929351 4/22 PTA +2896 GTPI +1464 M
 83% +71 F +0.05 % +50 P +994 NM\$ +6.6 PL
 +0.1 DPR 2.79 SCS +1.17 T +1.84 UDC +0.48 FLC
 Legacy x Rubicon

Dam: BLUMENFELD DULUTH 7132-ET
 Reg: 3213540194 4/22 PTA +3013 GTPI
 +1174 M +98 F +65 P +1039 NM\$
 +5.9 PL -2.4 DPR +1.64 T +1.53 UDC
 Sire: Winstar Duluth-ET

*Test date at 27 days fresh 96lb 4.8F 3.3P 13 SCS
 * 40 days fresh milking 101 lbs.

2nd Dam
 BLumenfeld Reason 6273-ET VG-88
3rd Dam
 BLumenfeld Magnus 5490-ET VG-85
4th Dam
 Blumenfeld Balisto 4835-ET

Brian Waldner
 Blumenfeld Holsteins
 6189 170th St N
 Hawley MN, 56549
 Brian@blumentfeldholsteins.com
 701-630-2713



Dam: T-Spruce Lionel 13196-ET

Lot 24

T-SPRUCE RHETT 15027-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 8/25/2020 Reg: 840003219884600

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1147
Milk	+780	79%R	Cheese Merit S		+1172
Fat	+134	+0.36%	Fluid Merit S S		+972
Protein	+59	+0.12%	Gestation Len.	GMS	+1128
CFP	+193		EFI %	gEFI 10.4% gIB 18.3%	
SCS	2.73	%R	Mastitis +2.3	Fert. Index +1.3	
PL	+5.3	%R	Livability +0.3	Heifer Liv. +1.3	
DPR	+0.2	%R	HCR +3.4	CCR +2.4	
RFI	+8				
Feed Saved	+78	42%R		0 Dtrs 0 Herds % US	

Beta: A2A2 Kappa: AA DWP\$: 1326

04/2022	GHA TYPE SUMMARY				TPI +3115
PTAT +0.87	77%R	UDC+1.26	FLC+0.03	BSC+0.09	0 D / 0 H
					-2 -1 0 1 2
Stature	+0.18	Tall			
Strength	-0.06	Frail			
Body Depth	+0.06	Deep			
Dairy Form	+1.26	Open Rib			
Rump Angle	+0.00	Sloped			
Thurl Width	+0.10	Wide			
Rear Legs-Side	+0.33	Sickle			
Rear Legs-Rear	-0.31	Hock In			
Foot Angle	-0.08	Low			
Feet & Legs Score	+0.19	High			
F. Udder Attachment	+0.83	Strong			
Rear Udder Height	+2.21	High			
Rear Udder Width	+2.18	Wide			
Udder Cleft	+0.52	Strong			
Udder Depth	-0.20	Deep			
Front Teat Placement	+0.83	Close			
Rear Teat Placement	+1.24	Close			
Teat Length	-0.19	Short			

#1 Rhett Daughter in the breed

Has 3 sons over 3100 GTPI

Has a daughter over 3100 GTPI

Averaging 24 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@melitel.net
320-493-9703

Sire: T-Spruce Rolan Rhett-ET

3145686103 04/22 PTA +2814 GTPI +943M
82% +90F +0.19% +43P +925 NM\$ +5.5 PL
-1.2DPR 2.69 SCS +0.58 T +1.78 UDC -0.18 FLC
Rolan X Frazzled

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC

Sire: T-Spruce Frazz Lionel-ET

*Fresh on 4/12/2022 Milking 90 lbs

*Dam of T-SPRUCE G FROST BITE-ET

3rd Dam

T-SPRUCE SAMURI 6347-ET

Dam of T-SPRUCE LEGACY LIFT OFF-ET

4th Dam

MERCEDES TS 9539-ET GP-82

2-00 3x 354d 30670m 3.7 1149f 3.2 991p



Dam: T-Spruce Lionel 13196-ET

Lot 25 T-SPRUCE CRUSHER 16712-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 6/13/2021 Reg: 840003235976719

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1141
Milk	+1303	79%R	Cheese Merit \$		+1161
Fat	+136	+0.29%	Fluid Merit \$ \$		+989
Protein	+71	+0.10%	Gestation Len.	GMS	+1073
CFP	+207		EFI %	gEFI 11.1%	gIB 15.8%
SCS	2.89	%R	Mastitis	+1.8	Fert. Index -0.1
PL	+4.8	%R	Livability	+1.8	Heifer Liv. +1.3
DPR	-1.2	%R	HCR	+0.3	CCR +0.0
RFI	-35				
Feed Saved	-7	43%R		0 Dtrs 0 Herds	% US

Beta: A1A2 Kappa: AB DWP\$: 1183

04/2022	GHA TYPE SUMMARY				TPI +3104
PTAT	+1.12	77%R	UDC+0.70	FLC+0.45	BSC+0.85 0 D / 0 H

			-2	-1	0	1	2
Stature	+1.11	Tall					
Strength	+0.60	Strong					
Body Depth	+0.59	Deep					
Dairy Form	+1.15	Open Rib					
Rump Angle	+0.38	Sloped					
Thurl Width	+0.52	Wide					
Rear Legs-Side	-0.81	Posty					
Rear Legs-Rear	+0.42	Straight					
Foot Angle	+0.59	Steep					
Feet & Legs Score	+0.74	High					
F. Udder Attachment	+0.73	Strong					
Rear Udder Height	+1.78	High					
Rear Udder Width	+1.70	Wide					
Udder Cleft	-0.20	Weak					
Udder Depth	+0.30	Shallow					
Front Teat Placement	-0.47	Wide					
Rear Teat Placement	-0.34	Wide					
Teat Length	-0.47	Short					

#2 Crusher Daughter in the breed
Averaging 30 oocytes per IVF session

Sire: Plain-Knoll Crusher-ET

3149934677 4/22 PTA +2970 GTPI +467 M
 82% +123 F +0.37% +52 p +976 NM\$ +4.7 PL
 -1.1 DPR 2.93 SCS +1.43 T +0.68 UDC +0.58 FLC
 Calvary x Legendar

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
 +1847 M +135 F +1160 NM\$
 +4.2 PL +0.0 DPR +0.84 T +.056 UDC

Sire: T-Spruce Frazz Lionel-ET

*Fresh on 4/12/2022 Milking 90 lbs

*Dam of T-SPRUCE G FROST BITE-ET

Arnie Gruenes
 Twin Spruce Farm
 17565 Co Rd 43
 Richmond, MN 56368
 Cows@meltel.net
 320-493-9703

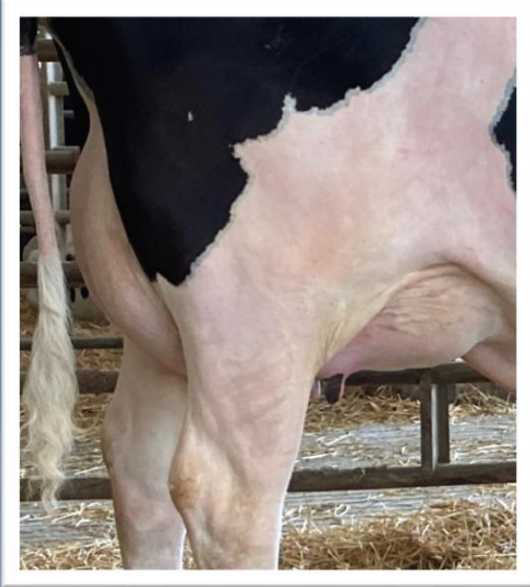
3rd Dam

T-SPRUCE SAMURI 6347-ET
 Dam of T-SPRUCE LEGACY LIFT OFF-ET

4th Dam

MERCEDES TS 9539-ET GP-82
 2-00 3x 354d 30670m 3.7 1149f 3.2 991p

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot 26 T-SPRUCE CONWAY 15883-ET

IVF Session

Averaging 9 oocytes per IVF session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Born 1/17/2021 Reg: 840003220247891

04/2022	CDCB SUMMARY GENOMICCOW				NM\$ +1123
Milk	+832	78%R	Cheese Merit \$		+1147
Fat	+141	+0.38%	Fluid Merit \$ S		+957
Protein	+59	+0.11%	Gestation Len.	GMS	+1118
CFP	+200		EFI %	gEFI	10.9% gIB 13.4%
SCS	2.77	%R	Mastitis	+2.2	Fert. Index +1.5
PL	+4.6	%R	Livability	+1.3	Heifer Liv. +0.9
DPR	+0.8	%R	HCR	+1.4	CCR +1.4
RFI	-14				
Feed Saved	+47	42%R			0 Dtrs 0 Herds % US

Beta: A2A2 Kappa: BB DWP\$: 1138

04/2022	GHA TYPE SUMMARY				TPI +3102				
PTAT	+0.76	77%R	UDC	+0.85	FLC	+0.09	BSC	+0.56	0 D / 0 H
Stature	+0.94	Tall							
Strength	-0.03	Frail							
Body Depth	+0.21	Deep							
Dairy Form	+1.14	Open Rib							
Rump Angle	-0.29	High Pins							
Thurl Width	+0.65	Wide							
Rear Legs-Side	+1.10	Sickle							
Rear Legs-Rear	+0.24	Straight							
Foot Angle	-0.14	Low							
Feet & Legs Score	+0.38	High							
F. Udder Attachment	+0.96	Strong							
Rear Udder Height	+1.51	High							
Rear Udder Width	+1.39	Wide							
Udder Cleft	-0.07	Weak							
Udder Depth	+0.92	Shallow							
Front Teat Placement	+0.00	Close							
Rear Teat Placement	-0.11	Wide							
Teat Length	+0.29	Long							

Sire: Sandy-Valley R Conway-ET

3148929379 4/22 PTA +2982 GTPI +660 M
81% +111 F +0.30% +54 P +939 NM\$ +4.0 PL
+0.7 DPR 2.86 SCS +1.45 T +1.36 UDC +0.69 FLC
Renegade x Granite

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC
Sire: T-Spruce Frazz Lionel-ET

*Fresh on 4/12/2022 Milking 90 lbs
*Dam of T-SPRUCE G FROST BITE-ET

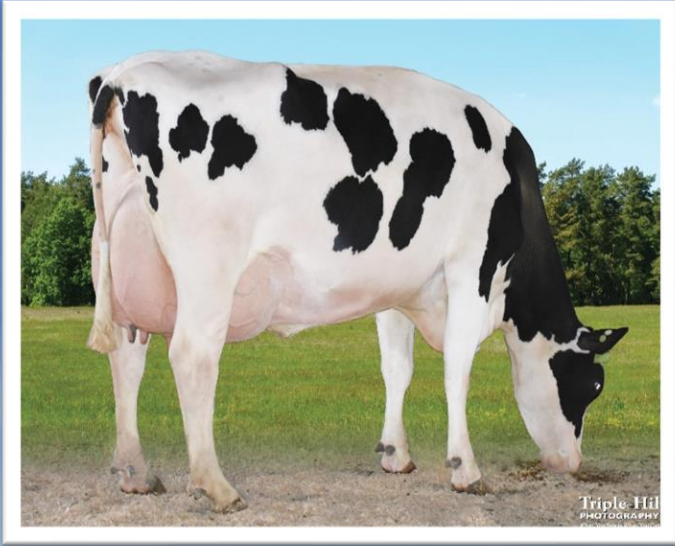
3rd Dam

T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET

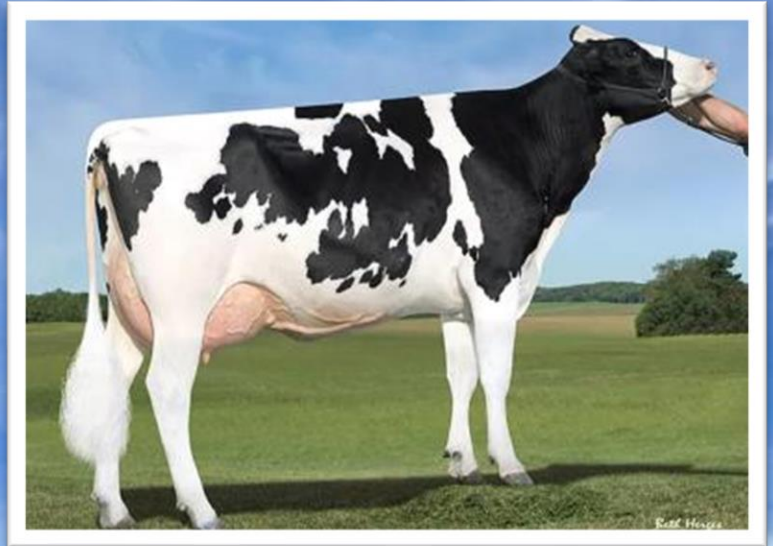
4th Dam

MERCEDES TS 9539-ET GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p

Future Opportunity Sale



2nd Dam: Pine-TRee Era Achie 7593-ET



3rd Dam: Sandy-Valley Morgan Era-ET

Lot 27 SDG-PH 8543 FRTNITE 7613-ET

IVF Session

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Born 6/17/2021 Reg: 840003232451017

04/2022	CDCB SUMMARY GENOMICCOW				NM\$ +1114
Milk	+1481	79%R	Cheese Merit \$		+1131
Fat	+111	+0.18%	Fluid Merit \$ \$		+1008
Protein	+65	+0.06%	Gestation Len.	GMS	+1045
CFP	+176		EFI %	gEFI 11.7% gIB 14.6%	
SCS	2.72	%R	Mastitis +2.9	Fert. Index +0.0	
PL	+6.2	%R	Livability +1.2	Heifer Liv. +1.1	
DPR	-0.7	%R	HCR +1.2	CCR +0.9	
RFI	-3				
Feed Saved	+106	42%R		0 Dtrs 0 Herds % US	

Beta: A1A2 Kappa: BE DWPF: 1130

04/2022	GHA TYPE SUMMARY				TPI +3009
PTAT	+0.68	77%R	UDC+0.98	FLC-0.08	BSC-0.19 0 D / 0 H

			-2	-1	0	1	2
Stature	-0.31	Short					
Strength	-0.18	Frail					
Body Depth	-0.19	Shallow					
Dairy Form	+1.13	Open Rib					
Rump Angle	+1.07	Sloped					
Thurl Width	+0.41	Wide					
Rear Legs-Side	-0.89	Posty					
Rear Legs-Rear	-0.31	Hock In					
Foot Angle	+0.28	Steep					
Feet & Legs Score	-0.08	Low					
F. Udder Attachment	+0.95	Strong					
Rear Udder Height	+1.31	High					
Rear Udder Width	+1.51	Wide					
Udder Cleft	-0.09	Weak					
Udder Depth	+0.04	Shallow					
Front Teat Placement	+0.80	Close					
Rear Teat Placement	+0.71	Close					
Teat Length	-0.55	Short					

Last 4 IVF sessions resulted in transfers of 9, 9, 12 and 11 At TOG IA

Jim Vierhout
Nathan Johnson Co-owner
510 Railroad St.
Hull, IA 51239
jimvierhout@gmail.com
712-470-1202

Sire: Peak Fortnite-ET

3200824963 4/22 PTA +2858 GTPI +1056 M
81% +92 F +0.18% +50 P +915 NM\$ +6.1 PL
-1.2 DPR 2.61 SCS +1.11 T +1.65 UDC -0.12 FLC
Positive x Frazzled

Dam: PINE-TREE 7593 TIMB 8543-ET

Reg: 3210257973 4/22 PTA +2936 GTPI
+2171 M +105 F +1046MN\$
+5.4 PL -1.6 DPR +0.70 T +1.36 UDC
Sire: Silverridge V Timberlake

*GP-83 VG-MS

*1-10 3X 179D 17,998 4.0f 716 3.0p 537p inc.

*10 Daughters over 1100nm to date

2nd Dam

Pine-TRee Era Achie 7593-ET GP-82
01-10 3x 365d 35130m 5.0 1758f 3.1 1084p

3rd Dam

Sandy-Valley Morgan Era-ET GP-83
02-02 2x 365d 34790m 4.2 1450f 3.4 1192p

4th Dam

Sandy-Valley Rbs Emerald-ET VG-88
03-11 2x 348d 42010m 4.2 1771f 3.1 1316p

Future Opportunity Sale



Winstar Mendel 8137-P-ET



4th Dam: Triplecrown Montross 27-ET

Lot 28 WINSTAR MENDEL 8137-P-ET

Born 08/02/2021 Reg: 840003236651237

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1046
Milk	+571	78%R	Cheese Merit \$		+1065
Fat	+122	+0.35%	Fluid Merit \$ \$		+914
Protein	+44	+0.09%	Gestation Len.	GMS	+1041
CFP	+166		EFI %	gEFI 10.8% gIB 12.0%	
SCS	2.79	%R	Mastitis +1.6	Fert. Index +2.0	
PL	+5.2	%R	Livability +1.6	Heifer Liv. +1.3	
DPR	+1.0	%R	HCR +3.6	CCR +2.8	
RFI	+130				
Feed Saved	+96	42%R		0 Dtrs 0 Herds % US	

Beta: A1A2 Kappa: AA

04/2022	GHA TYPE SUMMARY				TPI +2954
PTAT +0.09	77%R	UDC+0.75	FLC-0.30	BSC -1.18	0 D / 0 H

			-2	-1	0	1	2
Stature	-1.21	Short					
Strength	-1.13	Frail					
Body Depth	-1.24	Shallow					
Dairy Form	+0.24	Open Rib					
Rump Angle	-0.39	High Pins					
Thurl Width	-1.06	Narrow					
Rear Legs-Side	-0.16	Posty					
Rear Legs-Rear	-0.72	Hock In					
Foot Angle	-0.65	Low					
Feet & Legs Score	-0.46	Low					
F. Udder Attachment	+0.45	Strong					
Rear Udder Height	+0.96	High					
Rear Udder Width	+0.84	Wide					
Udder Cleft	-0.01	Weak					
Udder Depth	-0.15	Deep					
Front Teat Placement	+0.11	Close					
Rear Teat Placement	+0.30	Close					
Teat Length	-0.67	Short					

Greg Anderson
Seagull Bay Dairy
2549 Lakeview Rd
American Falls ID, 83211
greg@seagullbaydairy.com
208-339-0904

Sire: Winstar Mendel-P-ET

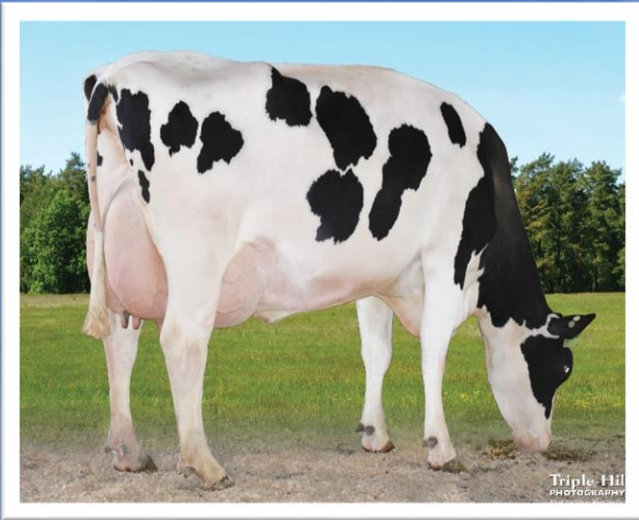
3208037185 4/22 PTA +3014 GTPI +912 M
81% +138 F +0.36% +53 P +1074 NM\$ +3.6 PL
-0.7 DPR 2.92 SCS +0.81 T +0.38 UDC -0.24
FLC
Entity x Windfall

Dam: WINSTAR ARROWHEAD 6707-ET

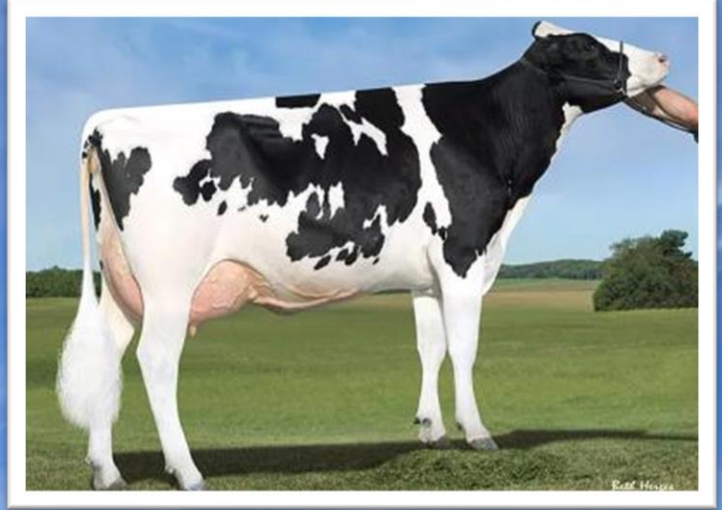
Reg: 3214317130 4/22 PTA +2787 GTPI
+692 M +78 F +36 P +955 NM\$
+7.7 PL +2.6 DPR -0.81 T +0.07 UDC
Sire: Melarry Frazz Arrowhead-ET

2nd Dam
Winstar Frazzled 5189-ET VG-86
3rd Dam
Ms TRiplecrown Shp Merci-ET VG-85
4th Dam
Triplecrown Montross 27-ET GP-83

Future Opportunity Sale



3rd Dam: Pine-Tree Era Achie 7593-ET



4th Dam: Sandy-Valley Morgan Era-ET

Lot 29 PINE-TREE 8439 KET P 710-ET PP

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Homozygous Polled Donor

Averaging 30 oocytes per IVF session

Ramsier Willow Spring Farm
 ramsier.12@osu.edu
 Kenny- 234-956-4100
 &
 Pine-Tree Dairy
 Rittman, OH 44270
 Pinetreedairy@gmail.com
 Ethan – 330-466-8916

Born 04/01/2021 Reg: 840003228682780

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1022
Milk	+411	79%R	Cheese Merit \$		+1043
Fat	+105	+0.31%	Fluid Merit \$ \$		+880
Protein	+41	+0.10%	Gestation Len.	GMS	+979
CFP	+146		EFI %	gEFI 10.6%	
SCS	2.76	%R	Mastitis +2.2	Fert. Index	+0.4
PL	+6.1	%R	Livability +4.3	Heifer Liv.	+0.4
DPR	+0.4	%R	HCR +0.2	CCR +1.2	
RFI	-115				
Feed Saved	+306	42%R	0 Dtrs	0 Herds	% US

Beta: A1A2 Kappa: BE DWP\$:1035

04/2022	GHA TYPE SUMMARY				TPI +2836	
PTAT -0.01	77%R	UDC+0.09	FLC+0.65	BSC -0.85	0 D / 0 H	
		-2	-1	0	1	2
Stature	-0.76	Short				
Strength	-1.04	Frail				
Body Depth	-0.88	Shallow				
Dairy Form	+0.28	Open Rib				
Rump Angle	+0.84	Sloped				
Thurl Width	-0.78	Narrow				
Rear Legs-Side	-0.17	Posty				
Rear Legs-Rear	+0.53	Straight				
Foot Angle	-0.29	Low				
Feet & Legs Score	+0.47	High				
F. Udder Attachment	-0.14	Loose				
Rear Udder Height	+0.28	High				
Rear Udder Width	-0.11	Narrow				
Udder Cleft	-0.80	Weak				
Udder Depth	+0.11	Shallow				
Front Teat Placement	-0.10	Wide				
Rear Teat Placement	-0.33	Wide				
Teat Length	-0.69	Short				

Sire: Winstar Billy Keeton-P-ET

3206709191 4/22 PTA +2714 GTPI +347 M
 81% +108 F +0.33% +34 P +945NM\$ +4.6PL
 -0.1 DPR 3.10 SCC -0.24T +0.06 UDC +0.04 FLC
 Billy x Delta

Dam: PINE-TREE 7593 LUS 8439-ET

Reg: 3150675511 4/22 PTA +2831 GTPI
 +1486M +107F +49 P +897NM\$
 +3.3 PL -1.8 DPR +1.31T +1.21UDC
 Sire: Cherry-Lily Zip Luster-P-ET PC

*Milking 1st lactation and pregnant.

*2-2 185 days 19,467 4.3F 845 3.1P 603 inc.

*Last test 91 lbs 5.2F 3.5P

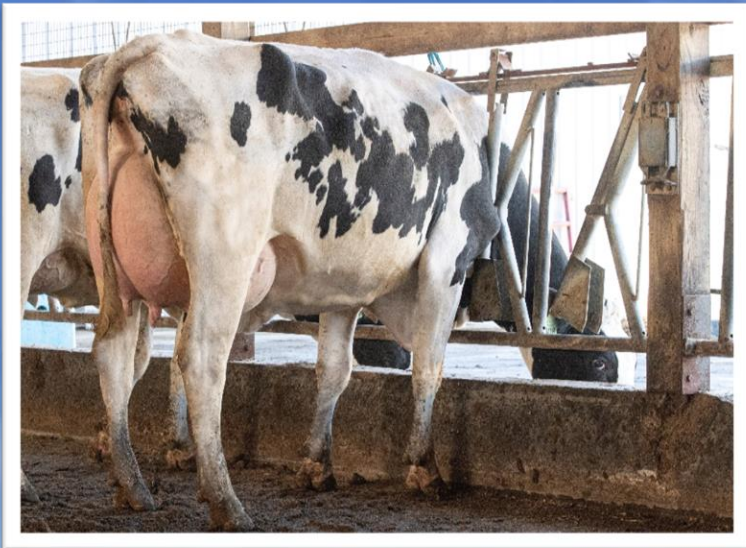
3rd Dam

Pine-Tree Era Achie 7593-ET GP-82
 01-10 3x 365d 35130m 5.0 1758f 3.1 1084p

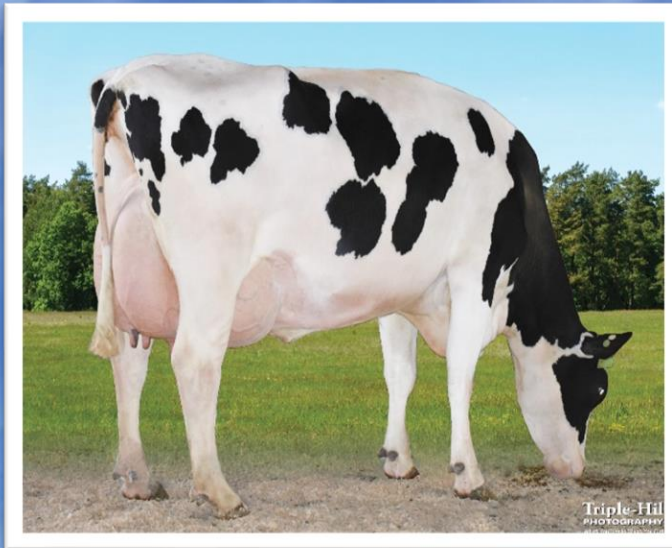
4th Dam

Sandy-Valley Morgan Era-ET GP-83
 02-02 2x 365d 34790m 4.2 1450f 3.4 1192p

Future Opportunity Sale



Dam: PINE-TREE 7593 PURS 8418-ET



2nd Dam: Pine-TRee Era Achie 7593-ET

Lot 30 PINE-TREE 8418 GAME 741-ET

Born 11/06/2021 Reg: 840003228682811

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1104
Milk	+1298	79%R	Cheese Merit \$		+1124
Fat	+111	+0.21%	Fluid Merit \$ \$		+989
Protein	+61	+0.07%	Gestation Len.	GMS	+1019
CFP	+172		EFI %	gEFI 11.2%	
SCS	2.63	%R	Mastitis +2.4	Fert. Index	-0.4
PL	+6.4	%R	Livability +1.9	Heifer Liv.	+1.4
DPR	-1.2	%R	HCR +2.0	CCR +0.0	
RFI	+7				
Feed Saved	+147	43%R	0 Dtrs	0 Herds	% US

Beta: A1A2 Kappa: AB DWPS: 1179

04/2022	GHA TYPE SUMMARY				TPI +3019
PTAT +1.06	77%R	UDC+1.11	FLC+0.49	BSC +0.01	0 D / 0 H
Stature	+0.25	Tall			
Strength	-0.57	Frail			
Body Depth	-0.21	Shallow			
Dairy Form	+1.59	Open Rib			
Rump Angle	+0.03	Sloped			
Thurl Width	+0.59	Wide			
Rear Legs-Side	+0.59	Sickle			
Rear Legs-Rear	+0.41	Straight			
Foot Angle	+0.11	Steep			
Feet & Legs Score	+0.58	High			
F. Udder Attachment	+0.88	Strong			
Rear Udder Height	+1.77	High			
Rear Udder Width	+1.65	Wide			
Udder Cleft	+0.20	Strong			
Udder Depth	+0.43	Shallow			
Front Teat Placement	+0.74	Close			
Rear Teat Placement	+0.81	Close			
Teat Length	-0.47	Short			

Joe and Kenny Ramsier
 Ramsier's Willow Spring Farm
 2477 Eastern Rd
 Rittman, OH 44270
 ramsier.12@osu.edu
 Kenny – 234-956-4100

Sire: Rmd-Dotterer Ssi Gameday-ET
 3205704153 4/22 PTA +3069 GTPI +994M
 82% +118 F 0.25% +52 P +1096 NM\$ +6.4 PL
 +0.2 DPR 2.63 SCS +1.43 T +1.56 UDC +0.32 FLC
 Big AI x Blowtorch

Dam: PINE-TREE 7593 PURS 8418-ET
 Reg: 3150675490 4/22 PTA +2945 GTPI
 +1503 M +99 F +60 P +1068NM\$
 +6.2 PL -0.5 DPR +0.61 T +0.48 UDC
 Sire: Pine-TRee-I Pursuit

* Score GP 83
 *2-1 217 days 19,904 5.3F 1049 3.6P 722 inc

2nd Dam
 Pine-TRee Era Achie 7593-ET GP-82
 01-10 3x 365d 35130m 5.0 1758f 3.1 1084p
3rd Dam
 Sandy-Valley Morgan Era-ET GP-83
 02-02 2x 365d 34790m 4.2 1450f 3.4 1192p
4th Dam
 Sandy-Valley Rbs Emerald-ET VG-88
 03-11 2x 348d 42010m 4.2 1771f 3.1 1316p



T-Spruce Upside 17906-ET

Lot 31

T-SPRUCE UPSIDE 17906-ET

Born 01/19/2022 Reg: 840003243332160

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1101
Milk	+1788	79%R	Cheese Merit \$		+1112
Fat	+87	+0.06%	Fluid Merit \$ \$		+1048
Protein	+63	+0.03%	Gestation Len.	GMS	+1038
CFP	+150		EFI %	gEFI 11.0% gIB 21.1%	
SCS	2.70	%R	Mastitis +1.9	Fert. Index	+0.7
PL	+7.1	%R	Livability +2.9	Heifer Liv.	+1.0
DPR	-0.3	%R	HCR +2.6	CCR +2.3	
RFI	+4				
Feed Saved	+293	42%R		0 Dtrs 0 Herds % US	

Beta: A2A2 Kappa: BB DWP\$: 1148

04/2022	GHA TYPE SUMMARY				TPI +2924
PTAT +0.50	77%R	UDC+0.82	FLC-0.49	BSC -0.88	0 D / 0 H
Stature	-0.88	Short			
Strength	-1.21	Frail			
Body Depth	-0.72	Shallow			
Dairy Form	+1.63	Open Rib			
Rump Angle	+0.24	Sloped			
Thurl Width	-0.40	Narrow			
Rear Legs-Side	+0.78	Sickle			
Rear Legs-Rear	-0.87	Hook In			
Foot Angle	-1.38	Low			
Feet & Legs Score	-0.49	Low			
F. Udder Attachment	+0.20	Strong			
Rear Udder Height	+1.43	High			
Rear Udder Width	+1.73	Wide			
Udder Cleft	+0.19	Strong			
Udder Depth	-0.58	Deep			
Front Teat Placement	+0.81	Close			
Rear Teat Placement	+0.53	Close			
Teat Length	-1.74	Short			

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: Farnear Upside-ET

3147118750 4/22 PTA +2993 GTPI +1843 M
82% +84 F +0.04% +63 P +1083 NM\$ +6.5 PL
+1.4 DPR 2.80 SCS +0.95 T +1.43 UDC -0.16 FLC
Charl x Jedi

Dam: MS T-SPRUCE LEGACY 13312-ET

Reg: 3205638777 4/22 PTA +2895 GTPI
+859 M +94 F +1055 NM\$
+7.7 PL +0.0 DPR +0.46 T +1.11 UDC
Sire: Pine-TRee Cw Legacy-ET
2-9 3x 74d 3020m 5.4%f 166f 3.3%p 99p

2nd Dam

Ms T-Spruce Dworth 11342-ET GP-82
02-08 3x 365d 39880m 4.2 1662f 3.1 1252p

3rd Dam

Jauquet Yoder POrsche-ET VG-86
02-00 3x 305d 31840m 4.5 1444f 3.3 1054p

4th Dam

Synergy Supersire Posh-ET VG-85
02-00 3x 365d 33630m 4.3 1445f 3.3 1106p

Future Opportunity Sale



3rd Dam: Ocd Delta Rae 34906-ET

Lot 32 WINSTAR MENDEL 7930-ET

Born 05/02/2021 Reg: 840003231004354

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1044
Milk	+242	79%R	Cheese Merit \$		+1069
Fat	+135	+0.44%	Fluid Merit \$ \$		+884
Protein	+39	+0.11%	Gestation Len.	GMS	+1003
CFP	+174		EFI %	gEFI 10.9%	
SCS	2.64	%R	Mastitis +2.6	Fert. Index	-0.1
PL	+4.7	%R	Livability +2.6	Heifer Liv.	+0.7
DPR	-0.5	%R	HCR +0.0	CCR +0.8	
RFI	+103				
Feed Saved	+67	42%R		0 Dtrs 0 Herds % US	

Beta: A2A2 Kappa:AA

04/2022	GHA TYPE SUMMARY				TPI +3016
PTAT +1.06	76%R	UDC+1.32	FLC+0.48	BSC -0.12	0 D / 0 H
					-2 -1 0 1 2
Stature	+0.11	Tall			
Strength	-0.72	Frail			
Body Depth	-0.28	Shallow			
Dairy Form	+1.46	Open Rib			
Rump Angle	+0.26	Sloped			
Thurl Width	+0.47	Wide			
Rear Legs-Side	+0.44	Sickle			
Rear Legs-Rear	+0.09	Straight			
Foot Angle	+0.16	Steep			
Feet & Legs Score	+0.61	High			
F. Udder Attachment	+1.22	Strong			
Rear Udder Height	+1.50	High			
Rear Udder Width	+1.57	Wide			
Udder Cleft	+1.04	Strong			
Udder Depth	+0.89	Shallow			
Front Teat Placement	+1.23	Close			
Rear Teat Placement	+1.32	Close			
Teat Length	-0.68	Short			

A solid IVF history of 17 oocytes per OPU

Greg Anderson
Seagull Bay Dairy
2549 Lakeview Rd
American Falls ID, 83211
greg@seagullbaydairy.com
208-339-0904

Sire: Winstar Mendel-P-ET

3208037185 4/22 PTA +3014 GTPI +912 M
81% +138 F +0.36% +53 P +1074 NM\$ +3.6 PL
-0.7 DPR 2.92 SCS +0.81 T +0.38 UDC -0.24
FLC
Entity x Windfall

Dam: WINSTAR HEROIC 6514-ET

Reg: 3210555210 4/22 PTA +2811 GTPI
-227 M +121 F +33 P +868 NM\$
+3.1 PL -1.0 DPR +1.19 T +0.90 UDC
Sire: Pine-TRee Heroic-E

2nd Dam	Winstar Achiever 4849-ET 03-00 3x 296d 22560m 4.6 1040f 3.5 792p
3rd Dam	Ocd Delta Rae 34906-ET VG-86
4th Dam	Edg Ruby Uno Rae EX-91 03-04 3x 308d 29500m 4.9 1437f 3.3 964p



T-Spruce Upside 18051-ET

Lot 33

T-SPRUCE UPSIDE 18051-ET

Born 02/09/2022 Reg: 840003243332305

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

04/2022	CDCB SUMMARY GENOMICCOW				NMS +995
Milk	+1119	79%R	Cheese Merit \$		+1009
Fat	+107	+0.22%	Fluid Merit \$ \$		+895
Protein	+54	+0.07%	Gestation Len.	GMS	+966
CFP	+161		EFI %	gEFI 10.7% gIB 17.5%	
SCS	2.86	%R	Mastitis +0.9	Fert. Index	+1.3
PL	+5.2	%R	Livability +2.6	Heifer Liv.	+1.1
DPR	+0.4	%R	HCR +3.7	CCR +3.2	
RFI	+11				
Feed Saved	+8	42%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: BB DWP\$: 1136

04/2022	GHA TYPE SUMMARY				TPI +2975	
PTAT +1.48	77%R	UDC+0.81	FLC+0.18	BSC +0.87	0 D / 0 H	
		-2	-1	0	1	2
Stature	+1.15	Tall				
Strength	+0.38	Strong				
Body Depth	+0.71	Deep				
Dairy Form	+1.90	Open Rib				
Rump Angle	+0.31	Sloped				
Thurl Width	+0.98	Wide				
Rear Legs-Side	+1.22	Sickle				
Rear Legs-Rear	-0.07	Hook In				
Foot Angle	+0.08	Steep				
Feet & Legs Score	+0.61	High				
F. Udder Attachment	+0.99	Strong				
Rear Udder Height	+1.11	High				
Rear Udder Width	+1.43	Wide				
Udder Cleft	+1.07	Strong				
Udder Depth	+0.45	Shallow				
Front Teat Placement	+1.32	Close				
Rear Teat Placement	+1.59	Close				
Teat Length	-0.49	Short				

Sire: Farnear Upside-ET

3147118750 4/22 PTA +2993 GTPI +1843 M
82% +84 F +0.04% +63 P +1083 NM\$ +6.5 PL
+1.4 DPR 2.80 SCS +0.95 T +1.43 UDC -0.16 FLC
Charl x Jedi

Dam: T-SPRUCE SOLUTION 13575-ET

Reg: 3208949434 4/22 PTA +2745 GTPI
+294 M +95 F +770 NM\$
+3.8 PL -0.4 DPR +1.17 T +0.29 UDC
Sire: Fustead S-S-I Solution-ET

2nd Dam

T-Spruce Samuri 6347-ET

3rd Dam

Mercedes Ts 9539-ET GP-82
02-00 3x 354d 30670m 3.7 1149f 3.2 991p

4th Dam

T-Spruce Lgold 7871-ET GP-83

Future Opportunity Sale



T-Spruce Warn Shot 17733-ET



2nd Dam: Endco Yoder L7933 9839-ET

Lot 34 T-SPRUCE WARN SHOT 17733-ET

Born 12/22/2021 Reg: 840003243331987

04/2022	CDCB SUMMARY GENOMICCOW			NM\$ +1038
Milk	+1847	79%R	Cheese Merit \$	+1044
Fat	+111	+0.13%	Fluid Merit \$ \$	+999
Protein	+63	+0.02%	Gestation Len.	GMS +968
CFP	+174		EFI % gEFI 10.5% gIB 12.9%	
SCS	2.89	%R	Mastitis +0.2	Fert. Index -0.3
PL	+5.0	%R	Livability +1.5	Heifer Liv. +1.2
DPR	-1.3	%R	HCR +1.3	CCR -0.4
RFI	-23			
Feed Saved	+104	42%R	0 Dtrs 0 Herds	% US

Beta: A1A2 Kappa: AB DWPF: 976

04/2022	GHA TYPE SUMMARY			TPI +2998
PTAT +1.21	77%R	UDC+1.41	FLC+0.92	BSC -0.07 0 D / 0 H
Stature	-0.10	Short		
Strength	-0.11	Frail		
Body Depth	-0.13	Shallow		
Dairy Form	+1.00	Open Rib		
Rump Angle	-0.09	High Pins		
Thurl Width	+0.24	Wide		
Rear Legs-Side	+0.12	Sickle		
Rear Legs-Rear	+1.17	Straight		
Foot Angle	+0.38	Steep		
Feet & Legs Score	+0.76	High		
F. Udder Attachment	+1.19	Strong		
Rear Udder Height	+1.94	High		
Rear Udder Width	+2.33	Wide		
Udder Cleft	+0.42	Strong		
Udder Depth	+0.13	Shallow		
Front Teat Placement	+0.57	Close		
Rear Teat Placement	+0.72	Close		
Teat Length	-0.01	Short		

#1 Warning Shot Daughter in the breed

Sire: Melarry Ren Warning Shot-ET

3206289405 4/22 +2888 GTPI +846 M
 81% +92 F +0.21% +44 P +959 NM\$ +5.8 PL
 +0.2 DPR 2.79 SCS +0.74 T +1.38 UDC +1.04 FLC
 Renegade x Frazzled

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
 +2143 M +139 F +1108 NM\$
 +3.2 PL -2.6 DPR +1.55 T +1.45 UDC
 Sire: Mr T-Spruce Frazz Lionel-ET

2nd Dam

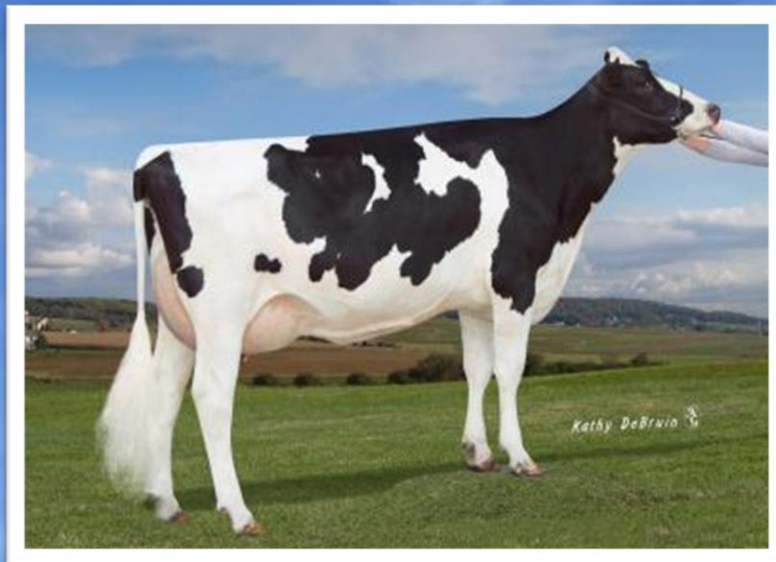
Endco Yoder L7933 9839-ET VG-86
 05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

3rd Dam

T-Spruce Lgold 7933-ET GP-81
 02-05 2x 248d 20320m 4.4 904f 3.4 687p

Arnie Gruenes
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 17565 Co Rd 43
 Richmond, MN 56368
 Cows@meltel.net
 320-493-9703

Future Opportunity Sale



2nd Dam: Endco Yoder L7933 9839-ET

Lot 35 T-SPRUCE CONWAY 15574-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Averaging 22 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Born 12/01/2021 Reg: 840003220247582

04/2022	CDCB SUMMARY GENOMICCOW				NM\$ +1055
Milk	+1403	79%R	Cheese Merit \$		+1072
Fat	+130	+0.26%	Fluid Merit \$ \$		+925
Protein	+69	+0.09%	Gestation Len.	GMS	+1011
CFP	+199		EFI %	gEFI 10.6% gIB 8.6%	
SCS	2.88	%R	Mastitis +1.9	Fert. Index	-0.3
PL	+3.7	%R	Livability +1.1	Heifer Liv.	+1.1
DPR	-1.1	%R	HCR +1.1	CCR +0.0	
RFI	-105				
Feed Saved	-14	42%R		0 Dtrs 0 Herds % US	

Sire: Sandy-Valley R Conway-ET

3148929379 4/22 PTA +2982 GTPI +660 M
81% +111 F +0.30% +54 P +939 NM\$ +4.0 PL
+0.7 DPR 2.86 SCS +1.45 T +1.36 UDC +0.69 FLC
Renegade x Granite

Beta: A2A2 Kappa: AB DWP\$: 1063

04/2022	GHA TYPE SUMMARY				TPI +3093			
PTAT +1.59	78%R	UDC+1.34	FLC+0.68	BSC+1.40	0 D / 0 H			
				-2	-1	0	1	2
Stature	+1.53	Tall						
Strength	+1.27	Strong						
Body Depth	+1.40	Deep						
Dairy Form	+1.64	Open Rib						
Rump Angle	+0.45	Sloped						
Thurl Width	+1.07	Wide						
Rear Legs-Side	-0.01	Posty						
Rear Legs-Rear	+1.15	Straight						
Foot Angle	+0.81	Steep						
Feet & Legs Score	+0.90	High						
F. Udder Attachment	+1.37	Strong						
Rear Udder Height	+2.26	High						
Rear Udder Width	+2.77	Wide						
Udder Cleft	+1.07	Strong						
Udder Depth	+0.38	Shallow						
Front Teat Placement	+0.90	Close						
Rear Teat Placement	+1.23	Close						
Teat Length	+0.81	Long						

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

3rd Dam

Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

4th Dam

T-Spruce Lgold 7933-ET GP-81
02-05 2x 248d 20320m 4.4 904f 3.4 687p

Future Opportunity Sale



T-Spruce Gameday 16896-ET

Lot 36 T-SPRUCE GAMEDAY 16896-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Averaging 8 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Born 7/26/2021 Reg: 840003235976903

04/2022	CDCB SUMMARY GENOMIC COW				NMS +1134
Milk	+1252	79%R	Cheese Merit \$		+1150
Fat	+111	+0.21%	Fluid Merit \$ \$		+1035
Protein	+57	+0.06%	Gestation Len.	GMS	+1124
CFP	+168		EFI %	gEFI 11.3% gIB 18.1%	
SCS	2.74	%R	Mastitis +2.0	Fert. Index +2.6	
PL	+7.0	%R	Livability +2.8	Heifer Liv. +1.2	
DPR	+2.1	%R	HCR +3.9	CCR +3.5	
RFI	-69				
Feed Saved	+96	43%R	0 Dtrs	0 Herds	% US

Beta: A1A2 Kappa: AB DWP\$: 1157

04/2022	GHA TYPE SUMMARY				TPI +3111
PTAT +1.22	77%R	UDC+1.03	FLC+0.60	BSC +0.57	0 D / 0 H
Stature	+0.83	Tall			
Strength	+0.07	Strong			
Body Depth	+0.11	Deep			
Dairy Form	+1.36	Open Rib			
Rump Angle	+0.74	Sloped			
Thurl Width	+1.23	Wide			
Rear Legs-Side	-0.04	Posty			
Rear Legs-Rear	+0.85	Straight			
Foot Angle	+0.60	Steep			
Feet & Legs Score	+0.71	High			
F. Udder Attachment	+0.61	Strong			
Rear Udder Height	+2.03	High			
Rear Udder Width	+2.14	Wide			
Udder Cleft	+0.59	Strong			
Udder Depth	+0.05	Shallow			
Front Teat Placement	+0.59	Close			
Rear Teat Placement	+0.74	Close			
Teat Length	-0.66	Short			

Sire: Rmd-Dotterer Ssi Gameday-ET

3205704153 4/22 PTA +3069 GTPI +994 M
82% +118 F +0.28% +52 P +1096 NM\$ +6.4 PL
+0.2 DPR 2.63 SCS +1.43 T +1.56 UDC +0.32 FLC
Big AI x Blowtorch

Dam: T-SPRUCE RENEGADE 13580-ET

Reg: 3208949439 4/22 PTA +2963 GTPI
+1394 M +100 F +937 NM\$
+4.7 PL +1.3 DPR +1.05 T 1.10 UDC
Sire: S-S-I Pr Renegade-ET

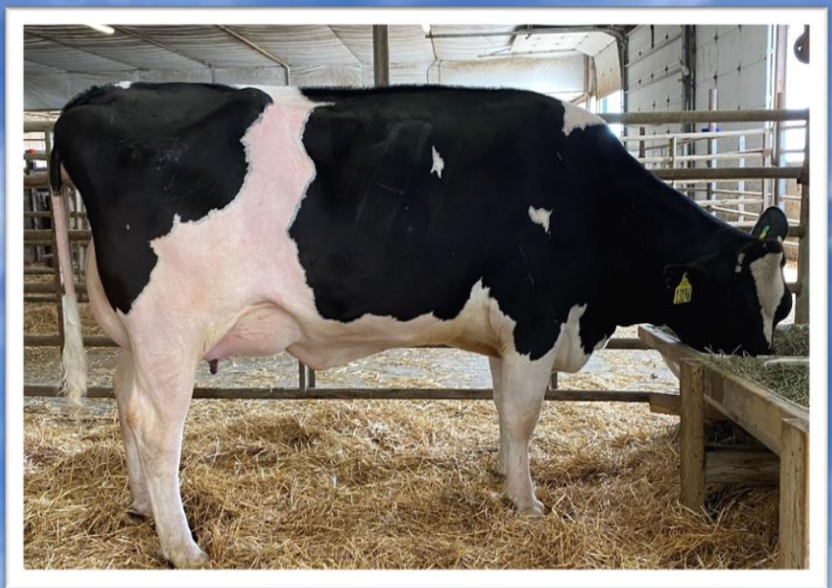
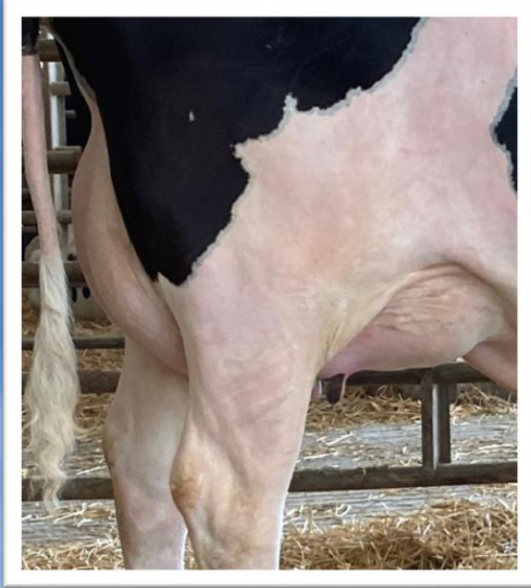
3rd Dam

T-Spruce Frazzled 6471-ET G-79
02-03 3x 365d 35800m 4.3 1544f 3.3 1177p

4th Dam

Melarry Spring 9500-ET GP-81
03-07 3x 297d 35660m 3.6 1296f 2.9 1049p

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot 37

T-SPRUCE REGAL 16964-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

#3 Regal Daughter in the breed

Averaging 8 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Born 08/10/2021 Reg: 840003235976971

04/2022	CDCB SUMMARY GENOMICCOW				NM\$ +1051
Milk	+1358	78%R	Cheese Merit \$		+1069
Fat	+104	+0.18%	Fluid Merit \$ \$		+918
Protein	+68	+0.09%	Gestation Len.	GMS	+1041
CFP	+172		EFI %	gEFI 11.7% gIB 17.7%	
SCS	2.84	%R	Mastitis +2.6	Fert. Index +2.8	
PL	+5.7	%R	Livability +2.0	Heifer Liv. +0.9	
DPR	+1.8	%R	HCR +3.3	CCR +2.8	
RFI	-10				
Feed Saved	-71	43%R		0 Dtrs 0 Herds % US	

Beta: A2A2 Kappa: BB DWP\$: 1217

04/2022	GHA TYPE SUMMARY				TPI +3087	
PTAT +0.93	77%R	UDC+0.91	FLC+0.72	BSC +0.65	0 D / 0 H	
		-2	-1	0	1	2
Stature	+0.83	Tall				
Strength	+0.64	Strong				
Body Depth	+0.33	Deep				
Dairy Form	+0.38	Open Rib				
Rump Angle	-0.67	High Pins				
Thurl Width	+0.22	Wide				
Rear Legs-Side	-0.31	Posty				
Rear Legs-Rear	+0.93	Straight				
Foot Angle	+0.64	Steep				
Feet & Legs Score	+0.84	High				
F. Udder Attachment	+0.81	Strong				
Rear Udder Height	+1.71	High				
Rear Udder Width	+1.50	Wide				
Udder Cleft	+0.21	Strong				
Udder Depth	+0.75	Shallow				
Front Teat Placement	-0.21	Wide				
Rear Teat Placement	+0.07	Close				
Teat Length	+0.31	Long				

Sire: T-Spruce Renegade Regal-ET

3208951942 4/22 PTA +2949 GTPI +964 M
81% +86 F +0.17% +51 P +948 NM\$ +6.4 PL
+1.6 DPR 2.59 SCS +0.79 T +1.38 UDC +0.38 FLC
Renegade x Frazzled

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC
Sire: T-Spruce Frazz Lionel-ET

*Fresh on 4/12/2022 Milking 90 lbs

*Dam of T-SPRUCE G FROST BITE-ET

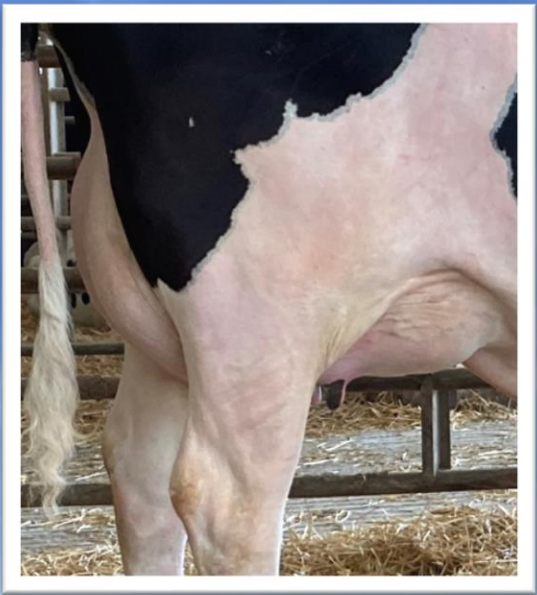
3rd Dam

T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET

4th Dam

MERCEDES TS 9539-ET GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot 38 T-SPRUCE GAMEDAY 16518-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Averaging 15 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Born 05/10/2021 Reg: 840003235976525

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1154
Milk	+1404	79%R	Cheese Merit S		+1175
Fat	+112	+0.20%	Fluid Merit S S		+1007
Protein	+72	+0.10%	Gestation Len.	GMS	+1134
CFP	+184		EFI %	gEFI 11.0% gIB 16.3%	
SCS	2.78	%R	Mastitis +2.0	Fert. Index +1.0	
PL	+5.7	%R	Livability +1.8	Heifer Liv. +1.4	
DPR	+0.4	%R	HCR +2.5	CCR +2.5	
RFI	-131				
Feed Saved	+199	43%R		0 Dtrs 0 Herds % US	

Beta: A2A2 Kappa: AB DWPS: 1294

04/2022	GHA TYPE SUMMARY					TPI +3083
PTAT +1.05	77%R	UDC+0.93	FLC+0.25	BSC+0.32	0 D / 0 H	
						-2 -1 0 1 2
Stature	+0.58	Tall				
Strength	-0.07	Frail				
Body Depth	-0.05	Shallow				
Dairy Form	+1.34	Open Rib				
Rump Angle	+0.41	Sloped				
Thurl Width	+0.62	Wide				
Rear Legs-Side	-0.18	Posty				
Rear Legs-Rear	+0.12	Straight				
Foot Angle	+0.22	Steep				
Feet & Legs Score	+0.43	High				
F. Udder Attachment	+0.74	Strong				
Rear Udder Height	+1.80	High				
Rear Udder Width	+2.03	Wide				
Udder Cleft	-0.23	Weak				
Udder Depth	+0.31	Shallow				
Front Teat Placement	+0.14	Close				
Rear Teat Placement	+0.15	Close				
Teat Length	-1.08	Short				

Sire: Rmd-Dotterer Ssi Gameday-ET

3205704153 4/22 PTA +3069 GTPI +994 M
82% +118 F +0.28% +52 P +1096 NM\$ +6.4 PL
+0.2 DPR 2.63 SCS +1.43 T +1.56 UDC +0.32 FLC
Big AI x Blowtorch

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC
Sire: T-Spruce Frazz Lionel-ET

*Fresh on 4/12/2022 Milking 90 lbs

*Dam of T-SPRUCE G FROST BITE-ET

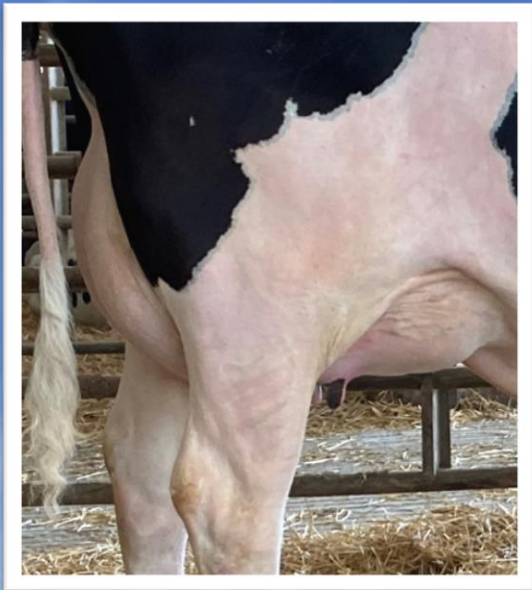
3rd Dam

T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET

4th Dam

MERCEDES TS 9539-ET GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot 39 T-SPRUCE DELUXE 16810-ET

IVF Session

Averaging 29 oocytes per IVF session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 07/08/2021 Reg: 840003235976817

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1077
Milk	+1348	78%R	Cheese Merit S		+1093
Fat	+136	+0.29%	Fluid Merit S S		+962
Protein	+64	+0.08%	Gestation Len.	GMS	+1015
CFP	+200		EFI %	gEFI	10.4% gIB 15.5%
SCS	2.86	%R	Mastitis	+2.2	Fert. Index +0.1
PL	+4.2	%R	Livability	+0.5	Heifer Liv. +1.0
DPR	-1.2	%R	HCR	+1.0	CCR -0.4
RFI	-109				
Feed Saved	-41	42%R		0 Dtrs	0 Herds % US

Beta: A2A2 Kappa: AA DWP\$: 1174

04/2022	GHA TYPE SUMMARY				TPI +3068
PTAT	+1.45	77%R	UDC+0.74	FLC+0.04	BSC +1.80
					0 D / 0 H

			-2	-1	0	1	2
Stature	+2.16	Tall					
Strength	+1.41	Strong					
Body Depth	+1.53	Deep					
Dairy Form	+1.86	Open Rib					
Rump Angle	+1.49	Sloped					
Thurl Width	+1.33	Wide					
Rear Legs-Side	-0.03	Posty					
Rear Legs-Rear	+0.14	Straight					
Foot Angle	+0.45	Steep					
Feet & Legs Score	+0.80	High					
F. Udder Attachment	+1.18	Strong					
Rear Udder Height	+1.62	High					
Rear Udder Width	+1.99	Wide					
Udder Cleft	+0.11	Strong					
Udder Depth	+0.88	Shallow					
Front Teat Placement	+0.45	Close					
Rear Teat Placement	+0.14	Close					
Teat Length	-0.78	Short					

Sire: C-Haven Positive Deluxe-ET

3210987525 4/22 PTA +2946 GTPI +1401 M
81% +126 F +0.25% +55 P +979 NM\$ +3.9 PL
-2.7 DPR 2.82 SCS +1.45 T +1.24 UDC +0.03 FLC
Positive x Slam dunk

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +0.056 UDC
Sire: T-Spruce Frazz Lionel-ET

*Fresh on 4/12/2022 Milking 90 lbs

*Dam of T-SPRUCE G FROST BITE-ET

3rd Dam

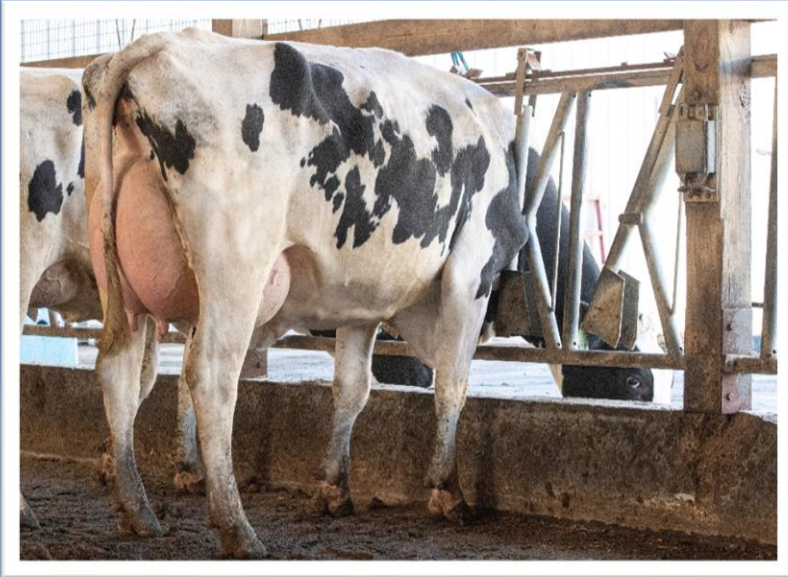
T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET

4th Dam

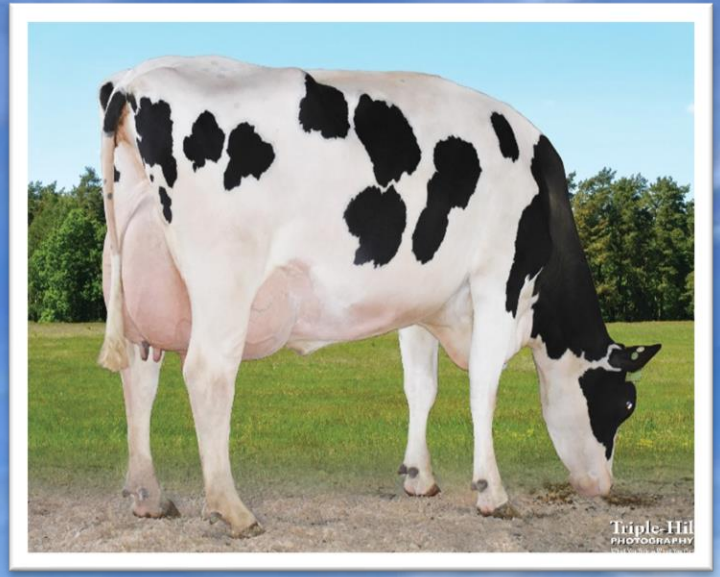
MERCEDES TS 9539-ET GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Future Opportunity Sale



Dam: PINE-TREE 7593 PURS 8418-ET



3rd Dam: Pine-TTree Era Achie 7593-ET

Lot 40 PINE-TREE 8418 CONWA 728-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

29 oocytes on last IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Born 09/16/2021 Reg: 840003228682798

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1064
Milk	+1304	79%R	Cheese Merit \$		+1080
Fat	+123	+0.25%	Fluid Merit \$ \$		+957
Protein	+61	+0.07%	Gestation Len.	GMS	+1022
CFP	+184		EFI %	gEFI 11.3% gIB 18.9%	
SCS	2.85	%R	Mastitis +3.0	Fert. Index	-0.1
PL	+4.3	%R	Livability +0.5	Heifer Liv.	+1.0
DPR	-1.0	%R	HCR +1.1	CCR -0.4	
RFI	-46				
Feed Saved	+141	42%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: BB DWP\$: 1058

04/2022	GHA TYPE SUMMARY				TPI +3052
PTAT	+1.41	77%R	UDC+1.34	FLC+0.73	BSC +0.18 0 D / 0 H

			-2	-1	0	1	2
Stature	+0.25	Tall					
Strength	-0.21	Frail					
Body Depth	+0.17	Deep					
Dairy Form	+1.44	Open Rib					
Rump Angle	+0.10	Sloped					
Thurl Width	+0.77	Wide					
Rear Legs-Side	+1.22	Sickle					
Rear Legs-Rear	+0.85	Straight					
Foot Angle	-0.11	Low					
Feet & Legs Score	+0.80	High					
F. Udder Attachment	+0.98	Strong					
Rear Udder Height	+2.23	High					
Rear Udder Width	+2.03	Wide					
Udder Cleft	+0.50	Strong					
Udder Depth	+0.26	Shallow					
Front Teat Placement	+0.69	Close					
Rear Teat Placement	+0.88	Close					
Teat Length	+0.30	Long					

Sire: Sandy-Valley R Conway-ET

3148929379 4/22 PTA +2982 GTPI +660 M
81% +111 F +0.30% +54 P +939 NM\$ +4.0 PL
+0.7 DPR 2.86 SCS +1.45 T +1.36 UDC +0.69 FLC
Renegade x Granite

Dam: PINE-TREE 7593 PURS 8418-ET

3150675490 4/22 PTA +2945 GTPI
+1503 M +99 F +1068 NM\$
+6.2 PL -0.5 DPR +0.61 T +0.48 UDC
Sire: Pine-TTree-I Pursuit

* Score GP 83

*2-1 217 days 19,904 5.3F 1049 3.6P 722 inc

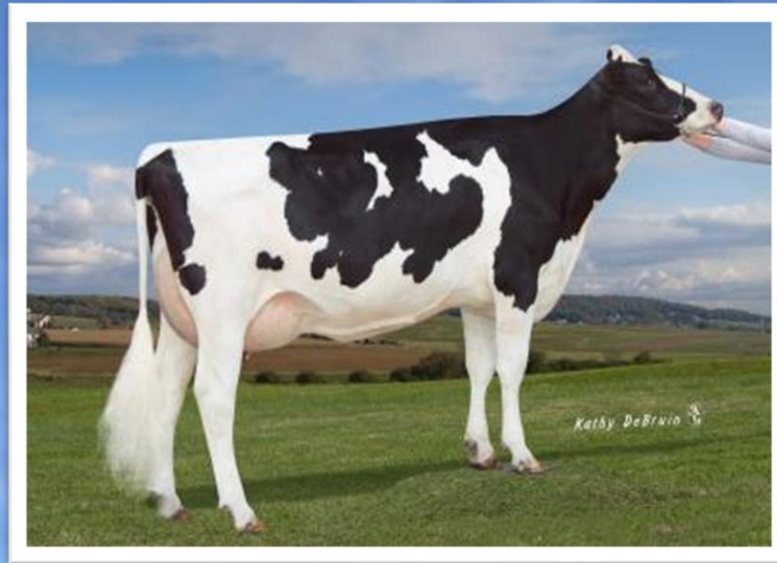
3rd Dam

Pine-Tree Era Achie 7593-ET – GP 82
01-10 3x 365d 35130m 5.0 1758f 3.1 1084p

4th Dam

Sandy-Valley Morgan Era-ET – VG 83
02-02 2x 365d 34790m 4.2 1450f 3.4 1192p

Future Opportunity Sale



3rd Dam: Endco Yoder L7933 9839-ET VG-86

Lot 41

T-SPRUCE ZAREK 15464-ET

IVF Session

*Buyer is purchasing rights to control the next IVF session(s) until a minimum of 8 #1 or #2 IVF embryos are produced. Embryo grades are determined at the time of transfer if fresh embryos or at time of freezing if freezing is requested by buyer. Buyer keeps all resulting embryos from these controlled IVF sessions. Buyer is responsible for all costs of the aspiration and mating sire decisions.

Born 11/15/2020 Reg: 840003219885037

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1094
Milk	+1964	81%R	Cheese Merit \$		+1105
Fat	+103	+0.09%	Fluid Merit \$ \$		+1038
Protein	+69	+0.03%	Gestation Len.	GMS	+1015
CFP	+172		EFI %	gEFI 11.1%	gLB 12.4%
SCS	2.73	%R	Mastitis +2.4	Fert. Index	-0.6
PL	+5.7	%R	Livability +1.0	Heifer Liv.	+1.4
DPR	-1.7	%R	HCR +1.9	CCR	+0.1
RFI	-2				
Feed Saved	+168	44%R		0 Dtrs 0 Herds	% US

Beta: A2A2 Kappa: AA DWP\$: 1254

04/2022	GHA TYPE SUMMARY				TPI +3049
PTAT +1.22	79%R	UDC+1.80	FLC+1.08	BSC -0.27	0 D / 0 H
					-2 -1 0 1 2
Stature	-0.05	Short			
Strength	-0.58	Frail			
Body Depth	-0.39	Shallow			
Dairy Form	+1.24	Open Rib			
Rump Angle	-0.84	High Pins			
Thurl Width	-0.43	Narrow			
Rear Legs-Side	+0.10	Sickle			
Rear Legs-Rear	+0.91	Straight			
Foot Angle	+0.36	Steep			
Feet & Legs Score	+1.08	High			
F. Udder Attachment	+1.49	Strong			
Rear Udder Height	+2.57	High			
Rear Udder Width	+2.79	Wide			
Udder Cleft	+0.54	Strong			
Udder Depth	+0.48	Shallow			
Front Teat Placement	+0.88	Close			
Rear Teat Placement	+0.82	Close			
Teat Length	-0.38	Short			

#1 Zarek Daughter in the breed

Averaging 14 oocytes per IVF session

Sire: Peak Altazarek-ET

HONLD000685695366 4/22 PTA +2835 GTPI +1514 M
 97% +84 F +0.09% +56 P +906 NM\$ +5.7PL
 -1.0 DPR 2.74 SCS +0.68 T +0.79 UDC +0.47 FLC
 Altatopshot x Rubicon

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
 +2143 M +139 F +1108 NM\$
 +3.2 PL -2.6 DPR +1.55 T +1.45 UDC
 Sire: Mr T-Spruce Frazz Lionel-ET

3rd Dam

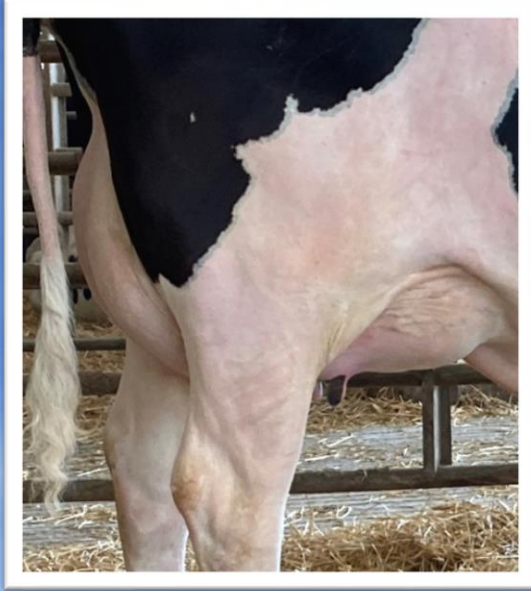
Endco Yoder L7933 9839-ET VG-86
 05-05 3x 350d 34320m 4.5 1560f 3.7 1255p

4th Dam

T-Spruce Lgold 7933-ET GP-81
 02-05 2x 248d 20320m 4.4 904f 3.4 687p

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 Richmond, MN 56368
 Cows@meltel.net
 320-493-9703

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot 42

T-SPRUCE ELON 17847-ET

Born 01/10/2021 Reg: 840003243332101

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1001
Milk	+1207	78%R	Cheese Merit S		+1014
Fat	+108	+0.21%	Fluid Merit S S		+909
Protein	+55	+0.06%	Gestation Len.	GMS	+986
CFP	+163		EFI %	gEFI 10.7%	glB 19.0%
SCS	2.86	%R	Mastitis +1.0	Fert. Index	+2.0
PL	+4.8	%R	Livability +1.0	Heifer Liv.	+1.4
DPR	+0.7	%R	HCR +3.9	CCR	+1.8
RFI	-34				
Feed Saved	+27	42%R		0 Dtrs 0 Herds	% US

Beta: A2A2 Kappa: AB DWP\$: 888

04/2022	GHA TYPE SUMMARY				TPI +3042
PTAT +1.50	77%R	UDC+1.61	FLC+0.68	BSC +0.37	0 D / 0 H
Stature	+0.56	Tall			
Strength	+0.18	Strong			
Body Depth	-0.12	Shallow			
Dairy Form	+0.64	Open Rib			
Rump Angle	+0.54	Sloped			
Thurl Width	+0.64	Wide			
Rear Legs-Side	+0.10	Sickle			
Rear Legs-Rear	+0.41	Straight			
Foot Angle	+0.38	Steep			
Feet & Legs Score	+0.84	High			
F. Udder Attachment	+1.70	Strong			
Rear Udder Height	+2.51	High			
Rear Udder Width	+1.88	Wide			
Udder Cleft	+0.10	Strong			
Udder Depth	+1.62	Shallow			
Front Teat Placement	-0.18	Wide			
Rear Teat Placement	-0.27	Wide			
Teat Length	+0.35	Long			

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: S-S-I Spartacus Elon-ET

3215097559 4/22 PTA +2915 GTPI +915M
81% +88 F +45 P +887 NM\$ +4.5PL
+0.5 DPR 2.88 SCS +1.51 t +2.06 UDC +0.74 FLC
Spartacus x Moola

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC
Sire: T-Spruce Frazz Lionel-ET

*Fresh on 4/12/2022 Milking 90 lbs
*Dam of T-SPRUCE G FROST BITE-ET

2nd Dam

T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET

3rd Dam

MERCEDES TS 9539-ET GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p

4th Dam

T-Spruce Lgold 7871-ET GP-83

Future Opportunity Sale



T-Spruce Deluxe 17162-ET

Lot 44 T-SPRUCE DELUXE 17162-ET

Born 09/18/2021 Reg: 840003235977169

04/2022	CDCB SUMMARY GENOMICCOW				NMS +1108
Milk	+1081	78%R	Cheese Merit \$		+1127
Fat	+129	+0.30%	Fluid Merit \$ S		+981
Protein	+58	+0.08%	Gestation Len.	GMS	+1033
CFP	+187		EFI %	gEFI 10.7% glB 16.6%	
SCS	2.77	%R	Mastitis +1.4	Fert. Index	-0.3
PL	+5.4	%R	Livability +0.8	Heifer Liv.	+0.6
DPR	-1.4	%R	HCR +1.3	CCR	-0.5
RFI	+44				
Feed Saved	+104	42%R	0 Dtrs	0 Herds	% US

Beta: A2A2 Kappa: AB DWP\$: 1236

04/2022	GHA TYPE SUMMARY				TPI +3010
PTAT +0.92	77%R	UDC+0.82	FLC-0.05	BSC-0.08	0 D / 0 H
					-2 -1 0 1 2
Stature	-0.15	Short			
Strength	-0.23	Frail			
Body Depth	+0.16	Deep			
Dairy Form	+1.77	Open Rib			
Rump Angle	+0.58	Sloped			
Thurl Width	+0.26	Wide			
Rear Legs-Side	+0.54	Sickle			
Rear Legs-Rear	-0.39	Hock In			
Foot Angle	-0.78	Low			
Feet & Legs Score	+0.08	High			
F. Udder Attachment	+0.81	Strong			
Rear Udder Height	+1.49	High			
Rear Udder Width	+1.95	Wide			
Udder Cleft	+0.19	Strong			
Udder Depth	-0.50	Deep			
Front Teat Placement	+0.69	Close			
Rear Teat Placement	+0.50	Close			
Teat Length	-1.70	Short			

Averaging 34 oocytes per IVF session

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: C-Haven Positive Deluxe-ET

3210987525 4/22 PTA +2946 GTPI +1401 M
81% +126 F +0.25% +55 P +979 NM\$ +3.9 PL
-2.7 DPR 2.82 SCS +1.45 T +1.24 UDC +0.03 FLC
Positive x Slamdunk

Dam: MS T-SPRUCE LEGACY 13312-ET

Reg: 3205638777 4/22 PTA +2895 GTPI
+859 M +94 F +1055 NM\$
+7.7 PL +0.0 DPR +0.46 T +1.11 UDC
Sire: Pine-Tree Cw Legacy-ET
2-9 3x 74d 3020m 5.4%f 166f 3.3%p 99p

*Dam of T-Spruce S-S-I Beethoven-ET

2nd Dam
Ms T-Spruce Dworth 11342-ET GP-82
02-08 3x 365d 39880m 4.2 1662f 3.1 1252p
3rd Dam
Jauquet Yoder POrsche-ET VG-86
02-00 3x 305d 31840m 4.5 1444f 3.3 1054p

Lot 45 (Group of Ten Head)

• Heifers must be picked up by July 15, 2022 housed free of charge.

- After that, \$4/head/day charge until they leave.

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Vaccination Protocol: Birth: Calf Guard, 3cc of bo-se, once pmh in nose.

8 weeks Inforce 3 Bovishield Gold FP 5L5, Caliber 7.

4 months- Bovishield gold of 5L5 and caliber 7.

9.5-10 months Express 10 and caliber 7)pre-breeding)

Primary Traits

BDAT	Animal ID	Reg #	Name	Sire	Dam	NMS	CMS	TPI	DWPs	Milk	% Fat	% P	Pro.	CFP	F Eff	FS	LIV	PL	SCS	DPR	HCR	CCR	Fert.	I SCE	PTAT	FLC	UDC		
7/29/2021	16904	3235976911	T-Spruce Zone 16904-ET	Clayhook Zone-ET	T-Spruce Lionel 13295-ET	911	922	2828	1035	1851	0.09	99	0.05	72	171	290	92	0.4	2.9	2.9	-2	-0.2	-1	-1.2	2.2	0.42	-0.33	0.99	
8/9/2021	16957	3235976964	T-Spruce Top Dog 16957-ET	Bomaz Top Dog-ET	Bgp SH Dynamo 18615-ET	942	959	2895	906	1063	0.24	111	0.07	52	163	257	-57	1.5	4.9	2.7	-1	1.1	0.3	-0.2	1.9	0.54	0.27	0.83	
8/12/2021	16973	3235976980	T-Spruce Talon 16973-ET	OCB Hotjob Talon-ET	Mercedes Lionel Lass-ET	971	983	2984	1057	1689	0.08	90	0.05	67	157	274	160	-0.1	4.1	2.82	-0.8	1.8	0.2	0.1	1.9	1.59	0.9	2.04	
8/17/2021	16993	3235977000	T-Spruce Regal 16993-ET	T-Spruce Renegade Regal-ET	T-Spruce Elisaku 13372-ET	809	823	2836	850	1010	0.09	65	0.03	40	105	166	-41	1.6	6.5	2.57	1.7	1.5	2.7	1.9	2.4	1.16	0.96	1.5	
8/22/2021	17019	3235977026	T-Spruce Regal 17019-ET	T-Spruce Renegade Regal-ET	T-Spruce Elisaku 13372-ET	923	935	2846	921	1104	0.14	83	0.03	42	125	215	120	2.1	6.3	2.67	1.5	2.7	2.4	2.1	2.5	0.28	0.37	0.98	
8/30/2021	17068	3235977075	T-Spruce Parsly 17068-ET	Siemers Twn Parsly 32480-ET	T-Spruce Elisaku 13458-ET	903	912	2829	1020	1444	0.06	73	0.03	54	127	227	174	0.9	5.9	2.87	1.1	1.8	2.6	1.3	2.6	0.84	0.31	1.06	
6/11/2021	128155	3235510363	T-Spruce MS-SSI C 12/155-ET	Sand-Valley R Conway-ET	T-Spruce Moola 12707-ET	852	864	2853	920	1364	0.13	90	0.05	58	148	242	9	0.7	4.8	2.85	-1.7	1	-1	-1.1	2.5	1.82	0.31	1.55	
7/1/2021	128325	3235510533	T-Spruce MS-SSI T 128325-ET	Leaninghouse Taos-ET	T-Spruce Nugent 12660-ET	861	877	2806	966	1510	0.1	89	0.07	67	156	248	-66	0.6	4.3	2.8	-1.6	-0.2	-0.1	-0.7	2.2	0.63	0.02	0.53	
6/14/2021	135386	3235508594	T-Spruce MS-SSI 135386-ET	Fly-Higher Moonshiner-ET	T-Spruce Rolan 12952-ET	898	911	2837	895	1103	0.12	77	0.05	48	125	226	209	0.9	5.5	2.75	-0.3	1.2	1.4	0.3	1.8	1.19	0.12	1.78	
6/26/2021	135539	3235508747	T-Spruce MS-SSI C 135539-ET	Sandy-Valley R Conway-ET	T-Spruce Tarrino 7030-ET	867	873	2813	787	1557	0.13	97	0.04	61	158	277	184	-1.9	3	3.11	-1.3	0.7	-0.7	-0.7	2.3	0.99	0.32	1.32	
						Average:	894	906	2853	936	1370	0	87	0	56	144	242	78	1	5	3	0	1	1	0	2	1	0	1

HHS

Secondary Traits

BDAT	Animal ID	Reg #	Name	BC	KC	ST	SR	BD	DF	RA	TW	LSV	LRV	FA	FLS	FU	RUH	RUW	UC	UD	FTP	RTP	TL	DA	KET	MAS	MET	RP	
7/29/2021	16904	3235976911	T-Spruce Zone 16904-ET	A1A2	AB	0.45	0.29	0.38	1.47	-0.27	0.67	-0.67	-0.53	0.47	-0.15	0.85	1.54	2.16	0.25	-0.08	0.48	0.56	0.22	0.5	1.6	-0.8	0.3	0.3	
8/9/2021	16957	3235976964	T-Spruce Top Dog 16957-ET	A2A2	AB	-0.4	-0.54	-0.79	0.25	0.46	0.29	-0.23	0.39	0.1	0.11	0.42	1.28	1.26	-0.11	0.06	0.6	0.53	-0.42	0.7	2.4	1.6	0.3	-0.4	
8/12/2021	16973	3235976980	T-Spruce Talon 16973-ET	A2A2	AA	0.4	0.15	-0.04	1.11	0.47	0.15	-1.14	1.12	0.83	0.91	1.95	2.88	2.99	0.71	0.97	0.88	1.01	-0.64	0.6	1.8	0	-0.2	-0.5	
8/17/2021	16993	3235977000	T-Spruce Regal 16993-ET	A1A2	BB	0.57	0.32	-0.28	-0.35	0.35	-0.03	-0.11	1.03	0.81	1.01	1.76	1.88	1.54	0.76	1.54	1.09	1.11	-0.98	0.6	1.7	3.2	0.6	-0.4	
8/22/2021	17019	3235977026	T-Spruce Regal 17019-ET	A1A2	BB	-0.38	-0.7	-1.2	-0.59	-0.36	-0.68	0.01	0.22	0.38	0.27	1.13	1.31	0.38	-0.12	1.18	0.02	-0.18	-0.14	0.7	1.8	2.1	0.9	-0.5	
8/30/2021	17068	3235977075	T-Spruce Parsly 17068-ET	A2A2	BB	-0.2	-0.18	-0.06	1.1	-0.11	0.18	0.41	0.11	0	0.31	1.08	1.71	1.82	-0.07	0.15	0.75	0.5	-1.91	0.5	1.1	1.9	0.4	0	
6/11/2021	128155	3235510363	T-Spruce MS-SSI C 12/155-ET	A2A2	AB	1.04	0.63	1.13	2.07	-0.93	1.58	2.55	0.66	-0.08	0.65	1.46	2.21	2.57	1.27	0.61	1.18	1.38	-0.01	0.4	1.6	2	0.6	0.1	
7/1/2021	128325	3235510533	T-Spruce MS-SSI T 128325-ET	A1A2	AB	0.66	0.56	0.35	0.71	-0.4	0.97	-0.26	0.41	0.06	0.1	0.32	0.96	1.62	0.57	0.02	0.15	0.38	1.15	0.4	0.5	1.9	0.5	-0.5	
6/14/2021	135386	3235508594	T-Spruce MS-SSI 135386-ET	A2A2	AA	-0.4	-0.64	-0.36	0.97	-0.72	-0.23	0.44	-0.29	0.23	0.12	1.86	2	1.69	1.3	1.12	1.85	2.07	-1.22	0.5	2.3	1.9	1.3	0	
6/26/2021	135539	3235508747	T-Spruce MS-SSI C 135539-ET	A2A2	AB	0.58	-0.23	-0.01	0.98	0.35	0.2	0.75	0.53	0.22	0.42	1.45	2.05	1.63	0.42	0.87	0.63	0.69	0.52	0.6	2.1	-1.8	1.3	0.1	
						Average:	0.23	-0.03	-0.09	0.77	-0.12	0.31	0.18	0.37	0.30	0.38	1.23	1.78	1.77	0.50	0.64	0.76	0.81	-0.34	0.55	1.69	1.20	0.60	-0.18

Lot 46 (Group of Ten Head)

- Heifers must be picked up by July 15, 2022 housed free of charge.
- After that, \$4/head/day charge until they leave.

Vaccination Protocol: Birth: Calf Guard, 3cc of bo-se, once pmh in nose.
 8 weeks Inforce 3 Bovishield Gold FP 5L5, Caliber 7.
 4 months- Bovishield gold of 5L5 and caliber 7.
 9.5-10 months Express 10 and caliber 7)pre-breeding)

Primary Traits

Arnie Gruenes
 Twin Spruce Farm
 17565 Co Rd 43
 Richmond, MN 56368
 Cows@meltel.net
 320-493-9703

BDAT	Animal ID	Reg #	Name	Sire	Dam	NM\$	CM\$	TPI	DWPS	Milk	%F	Fat	%P	Pro	CFP	F	Eff	FS	LIV	PL	SCS	DPR	HCR	CCR	Fert	Idx	SCE	PTAT	FLC	UDC
6/22/2021	16743	3235976750	T-SPRUCE CRUSHER 16743-ET	PLAIN-KNOLL CRUSHER-ET	MS T-SPRUCE LEGACY 13312-ET	944	958	2896	971	1040	0.23	107	0.06	49	156	256	38	2.3	4.8	2.83	-1.2	2.5	0.2	0.1	2.3	1.23	0.09	0.97		
6/30/2021	16780	3235976787	T-SPRUCE LAZER 16780-ET	MATCREST LEGACY LAZER-ET	BGP HUEY WALDINA 811-ET	849	870	2827	682	1004	0.15	81	0.1	60	141	232	19	-0.7	4.8	2.78	-0.9	0.7	0	-0.5	2.2	1.26	0.23	1.43		
8/4/2021	16965	3235976972	T-SPRUCE 16965-ET	T-SPRUCE EISAKU 14023-ET	T-SPRUCE RENEGADE REGAL-ET	993	1009	2920	971	1219	0.14	88	0.05	53	141	235	53	2.1	7.4	2.69	1.2	2.2	2.8	1.7	2.6	0.51	0.54	0.76		
8/23/2021	17022	3235977029	T-SPRUCE TOP DOG 17022-ET	BOMAZ TOP DOG-ET	T-SPRUCE RENEGADE 13246-ET	962	980	2889	908	1190	0.19	100	0.06	55	155	263	111	-0.1	5	2.65	0.4	0.3	0.5	0.7	1.8	0.32	0.42	0.58		
8/28/2021	17050	3235977057	T-SPRUCE REGAL 17050-ET	T-SPRUCE REGAL 17050-ET	T-SPRUCE RUBICON 7483-ET	992	1006	2891	1008	1290	0.18	103	0.03	50	153	258	94	0.9	6.3	2.63	-0.9	0.1	0.3	-0.3	2.6	0.54	0.39	0.97		
8/29/2021	17065	3235977072	T-SPRUCE REGAL 17065-ET	T-SPRUCE REGAL 17065-ET	T-SPRUCE RUBICON 7483-ET	974	987	2872	868	1317	0.18	104	0.04	52	156	262	85	1	6	2.69	-1.8	-0.1	-0.7	-1.2	2.5	0.66	0.16	1.23		
9/10/2021	17118	3235977125	T-SPRUCE PAYLOAD 17118-ET	S-S-I EISAKU PAYLOAD-ET	MERCEDES RENEGADE ZARA-ET	858	873	2949	807	1004	0.14	80	0.08	55	135	213	-60	2.3	4.8	2.94	1.2	1.3	2.1	1.4	2.5	1.89	1.16	1.87		
9/11/2021	17125	3235977132	T-SPRUCE BULLSEYE 17125-ET	BADGER SSI SOL BULLSEYE-ET	T-SPRUCE EISAKU 13843-ET	930	940	2857	849	1102	0.09	69	0.03	42	111	192	104	2.6	7.7	2.75	2.3	2.7	3.3	2.6	2.6	0.84	0.27	1.26		
9/15/2021	17145	3235977152	T-SPRUCE REGAL 17145-ET	T-SPRUCE REGAL 17145-ET	T-SPRUCE HUEY 13879-ET	866	879	2836	932	1051	0.14	82	0.06	49	131	218	44	1	5.4	2.81	0.7	3	1.6	1.3	2.5	1.12	0.14	0.98		
10/18/2021	17335	3243331589	T-SPRUCE REGAL 17335-ET	T-SPRUCE REGAL 17335-ET	T-SPRUCE EISAKU 13458-ET	952	968	2949	1022	1216	0.15	61	0.06	54	145	234	-13	1	6.4	2.73	0.9	2.9	2.6	1.6	2.5	1.14	0.65	1.18		
						Average:	932	947	2888.6	901.8	1143.0	0.159	87.5	0.057	51.9	142.4	236.3	47.5	1.24	5.86	2.75	0.19	1.56	1.27	0.74	2.42	0.951	0.405	1.123	

Secondary Traits

BDAT	Animal ID	Reg #	Name	BC	KC	ST	SR	BD	DF	RA	TW	LSV	LRV	FA	FLS	FU	FH	RUH	RUEW	UC	UD	FTP	RTP	TL	DA	KET	MAS	MET	RP
6/22/2021	16743	3235976750	T-SPRUCE CRUSHER 16743-ET	A2A2	AB	0.74	0.34	0.44	1.31	1.37	0.84	-0.03	0.18	-0.52	0.31	0.84	1.63	2.15	0.53	-0.04	0.94	0.93	-0.89	1.1	2.2	1.3	0.1	-0.2	
6/30/2021	16780	3235976787	T-SPRUCE LAZER 16780-ET	A2A2	AB	0.87	-0.16	0.01	0.98	0.17	0.54	0.3	0.19	-0.26	0.51	1.77	1.81	1.32	0.91	1.65	1.11	0.9	-0.74	0.4	2.5	0.7	1.6	-0.1	
8/4/2021	16965	3235976972	T-SPRUCE 16965-ET	A2A2	BB	0.1	-0.44	-0.68	0.27	0.82	-0.16	0.02	0.57	0.05	0.54	0.33	1.48	0.94	0.03	0.73	-0.55	-0.42	0.05	0.4	1.8	3.2	1.2	-0.3	
8/23/2021	17022	3235977029	T-SPRUCE TOP DOG 17022-ET	A1A2	BB	0.31	-0.21	-0.1	1.02	1.34	-0.66	-0.58	0.77	-0.08	0.42	-0.45	1.48	1.78	0.86	-0.75	1.18	1.54	-0.9	0.7	1.8	2.3	1.1	-0.3	
8/28/2021	17050	3235977057	T-SPRUCE REGAL 17050-ET	A2A2	BB	0.04	-0.76	-0.97	-0.01	0.88	-0.43	0.09	0.52	0.22	0.34	0.9	1.41	0.96	-0.09	1.03	-0.14	0.08	0.04	0.4	1.9	3.3	1	-0.1	
8/29/2021	17065	3235977072	T-SPRUCE REGAL 17065-ET	A2A2	BB	0.15	-0.49	-0.57	0.32	0.96	-0.21	0.18	0.3	0.01	0.16	0.98	1.9	1.45	0.2	0.92	0.15	0.37	0.12	0.9	1.9	2.9	1.2	-0.2	
9/10/2021	17118	3235977125	T-SPRUCE PAYLOAD 17118-ET	A2A2	BB	1.09	0.67	0.4	0.53	0.57	1.62	-0.27	1.58	1.29	1.23	2.51	1.98	2.03	0.78	2.26	0.89	0.71	0.02	0.2	1.4	1.6	1.3	-0.2	
9/11/2021	17125	3235977132	T-SPRUCE BULLSEYE 17125-ET	A2A2	AB	-0.38	-0.5	-0.89	0.16	-1.77	0.28	1.41	-0.08	-0.12	0.32	1.64	1.48	1.12	0.12	1.16	0.55	0.43	-1.59	0.7	2.4	2.2	1.1	-0.3	
9/15/2021	17145	3235977152	T-SPRUCE REGAL 17145-ET	A2A2	AB	0.65	0.24	0.03	0.56	0.34	0.08	0.27	0.27	0.08	0.28	0.57	2.27	1.74	0.2	0.47	-0.45	-0.26	0.89	0.7	1.6	2	0.8	-0.3	
10/18/2021	17335	3243331589	T-SPRUCE REGAL 17335-ET	A2A2	BB	0	-0.11	-0.37	0.3	-0.15	0.18	0.15	0.62	0.45	0.61	1.16	1.71	1.46	0.06	0.65	0.59	0.52	-0.44	0.7	1.3	1.8	1.2	-0.3	
				Average:	0.36	-0.14	-0.27	0.54	0.45	0.21	0.15	0.49	0.11	0.47	1.03	1.72	1.50	0.36	0.81	0.43	0.48	-0.34	0.62	1.88	2.13	1.06	-0.23		

Bulls



Mr. T-Spruce Frazz Lionel-ET

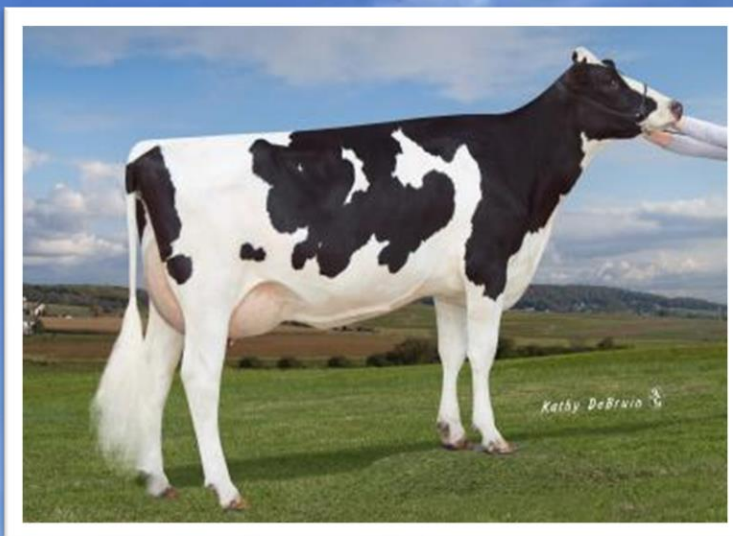


7H14454 – Frazzled x Montross x Supersire

LIONEL is among the breed's highest sires for TPI (+3172), Net Merit (+1,255 NM\$), Dairy Wellness Profit Index (+1,326 DWP\$), and Herd Health Profit Dollars (+1,200 HHP\$). April 2022 proofs added roughly 1,200 daughters from over 75 different herds to his profile, improving both his reliability and prominence within the Holstein breed.

Farmers can expect to see increased longevity, less health problems, and production powerhouse daughters from LIONEL. His +3,397 Milk and +253 Combined Fat and Protein (CFP) will add substantial pounds to the bulk tank each day and dollars down to the bottom line.

Future Opportunity Sale



2nd Dam: Endco Yoder L7933 9839-ET

Lot A T-SPRUCE Conway 1825-ET

Born 06/14/2021 Reg: 840003234731810

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

04/2022	CDCB SUMMARY GENOMIC			NMS +1098
Milk	+1362	79%R	Cheese Merit \$	+1116
Fat	+120	+0.23%	Fluid Merit \$ \$	+970
Protein	+67	+0.08%	Gestation Len. -1	GMS +1054
CFP	+187		EFI 9.4% gEFI 10.3% gIB 10.7%	
SCS	2.83	75%R	Mastitis +1.6	Fert. Index -0.1
PL	+4.8	73%R	Livability +2.0	Heifer Liv. +1.1
DPR	-0.7	73%R	HCR +1.1	CCR +0.3
RFI	-110			
Feed Saved	+138	42%R	0 Dtrs 0 Herds	100% US

Beta: A2A2 Kappa: AB DWP\$: 1090

04/2022	HA TYPE SUMMARY				TPI +3092
PTAT +1.66	77%R	UDC+1.43	FLC+0.97	BSC-0.18	0 D / 0 H

			-2	-1	0	1	2
Stature	+0.89	Tall					
Strength	+0.33	Strong					
Body Depth	+0.78	Deep					
Dairy Form	+1.85	Open Rib					
Rump Angle	+0.10	Sloped					
Thurl Width	+1.06	Wide					
Rear Legs-Side	-0.68	Posty					
Rear Legs-Rear	+1.41	Straight					
Foot Angle	+0.45	Steep					
Feet & Legs Score	+1.06	High					
F. Udder Attachment	+1.22	Strong					
Rear Udder Height	+2.52	High					
Rear Udder Width	+2.99	Wide					
Udder Cleft	+0.82	Strong					
Udder Depth	+0.13	Shallow					
Front Teat Placement	+0.22	Close					
Rear Teat P. Rear	+0.44	Close					
Teat Length	+1.05	Long					

Sire: Sandy-Valley R Conway-ET

3148929379 4/22 PTA +2982 GTPI +660 M
81% +111 F +0.30% +54 P +939 NM\$ +4.0 PL
+0.7 DPR 2.86 SCS +1.45 T +1.36 UDC +0.69 FLC
Renegade x Granite

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

Sale Terms

Twin Spruce Farm receives 30 units of conventional restriction-free semen from this bull, when he starts producing semen

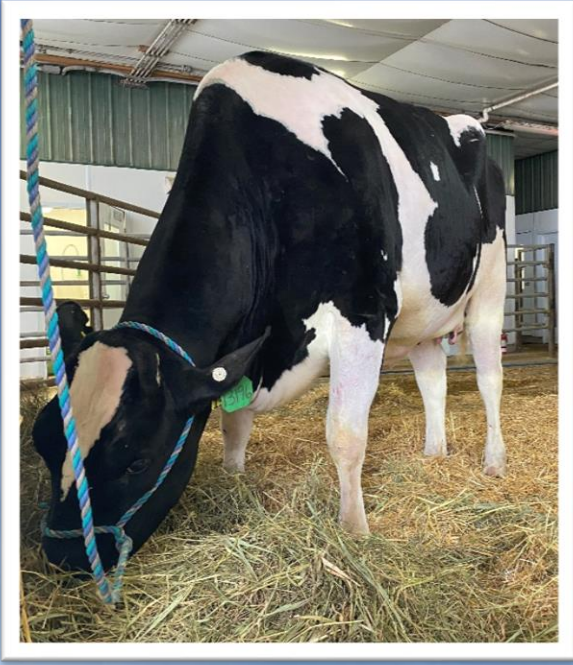
2nd Dam

Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7
1255p

3rd Dam

T-Spruce Lgold 7933-ET
02-05 2x 248d 20320m 4.4 904f 3.4 687p

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot B

T-SPRUCE REGAL 51966-ET

Born 10/03/2021 Reg: 840003234731951

04/2022	CDCB SUMMARY GENOMIC				NMS +1120
Milk	+1483	78%R	Cheese Merit \$		+1139
Fat	+131	+0.25%	Fluid Merit \$ \$		+986
Protein	+72	+0.09%	Gestation Len. -3	GMS	+1120
CFP	+203		EFI 9.6%	gEFI 10.7%	gIB 17.4%
SCS	2.84	74%R	Mastitis +0.8	Fert. Index	+1.0
PL	+3.9	73%R	Livability +0.5	Heifer Liv.	+1.0
DPR	+0.2	73%R	HCR +1.1	CCR	+1.4
RFI	-38				
Feed Saved	+135	42%R	0 Dtrs	0 Herds	100% US

Beta: A2A2 Kappa: BB DWP\$: 1089

04/2022	HA TYPE SUMMARY				TPI +3073	
PTAT	+0.78	77%R	UDC+0.65	FLC+0.03	BSC -0.63	0 D / 0 H

			-2	-1	0	1	2
Stature	+0.29	Tall					
Strength	-0.01	Frail					
Body Depth	+0.19	Deep					
Dairy Form	+1.42	Open Rib					
Rump Angle	-0.48	High Pins					
Thurl Width	-0.24	Narrow					
Rear Legs-Side	+0.83	Sickle					
Rear Legs-Rear	+0.03	Straight					
Foot Angle	-0.29	Low					
Feet & Legs Score	+0.16	High					
F. Udder Attachment	+0.40	Strong					
Rear Udder Height	+1.66	High					
Rear Udder Width	+1.73	Wide					
Udder Cleft	-0.43	Weak					
Udder Depth	-0.47	Deep					
Front Teat Placement	-0.12	Wide					
Rear Teat P. Rear	+0.01	Close					
Teat Length	+0.38	Long					

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: T-Spruce Renegade Regal-ET
3208951942 4/22 PTA +2949 GTPI +964 M
81% +86 F +0.17% +51 P +948 NM\$ +6.4 PL
+1.6 DPR 2.59 SCS +0.79 T +1.38 UDC +0.38 FLC
Renegade x Frazzled

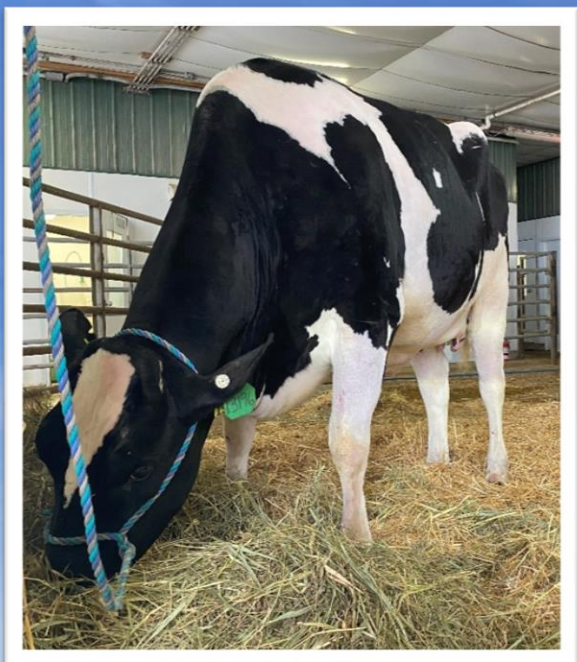
Dam: T-SPRUCE LIONEL 13196-ET
Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC
-Fresh on 4/12/2022 Milking 90 lbs
Sire: T-Spruce Frazz Lionel-ET

Sale Terms

Twin Spruce Farm receives 30 units of conventional restriction-free semen from this bull, when he starts producing semen

2nd Dam
T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET
3rd Dam
MERCEDES TS 9539-ET
GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot C T-SPRUCE MAHOMES 2042-ET

Born 11/18/2021 Reg: 840003234732027

04/2022	CDCB SUMMARY GENOMIC				NMS +1077
Milk	+1284	78%R	Cheese Merit \$		+1095
Fat	+89	+0.14%	Fluid Merit \$ \$		+972
Protein	+59	+0.07%	Gestation Len. -2	GMS	+1065
CFP	+148		EFI 10.0% gEFI 11.1% gLB 15.4%		
SCS	2.70	74%R	Mastitis +2.5	Fert. Index	+3.1
PL	+7.3	73%R	Livability +2.5	Heifer Liv.	+1.8
DPR	+2.5	72%R	HCR +2.3	CCR	+3.9
RFI	-16				
Feed Saved	+63	42%R	0 Dtrs 0 Herds	100% US	

Beta: A2A2 Kappa: AB DWP\$: 1150

04/2022	HA TYPE SUMMARY				TPI +3052
PTAT +0.62	76%R	UDC+1.45	FLC+0.69	BSC -0.31	0 D / 0 H
					-2 -1 0 1 2
Stature	-1.05	Short			
Strength	-0.34	Frail			
Body Depth	-0.90	Shallow			
Dairy Form	-0.57	Tight			
Rump Angle	-0.59	High Pins			
Thurl Width	-0.11	Narrow			
Rear Legs-Side	-0.85	Posty			
Rear Legs-Rear	+0.31	Straight			
Foot Angle	+0.32	Steep			
Feet & Legs Score	+0.48	High			
F. Udder Attachment	+1.22	Strong			
Rear Udder Height	+1.88	High			
Rear Udder Width	+1.57	Wide			
Udder Cleft	+0.11	Strong			
Udder Depth	+0.72	Shallow			
Front Teat Placement	-0.33	Wide			
Rear Teat P. Rear	-0.16	Wide			
Teat Length	-0.40	Short			

Sale Terms

Twin Spruce Farm receives 30 units of conventional restriction-free semen from this bull, when he starts producing semen

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: Progenesis Mahomes

CAN000013442781 4/22 PTA +2890 GTPI +1238 M
79% +72 F +0.08% +52 P +930 NM\$ +5.8 PL
+1.2 DPR 2.71 SCS +0.90 T +1.56 UDC +0.23 FLC
Eldorado x Milktime

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC
-Fresh on 4/12/2022 Milking 90 lbs
Sire: T-Spruce Frazz Lionel-ET

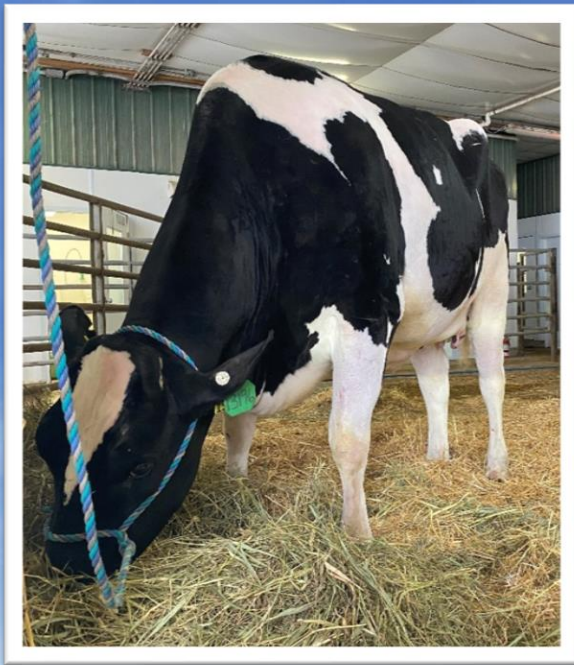
2nd Dam

T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET

3rd Dam

MERCEDES TS 9539-ET
GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot D T-SPRUCE DELUXE 51862-ET

Born 07/10/2021 Reg: 840003234731847

04/2022	CDCB SUMMARY GENOMIC				NM\$ +1089
Milk	+2088	78%R	Cheese Merit \$		+1097
Fat	+117	+0.12%	Fluid Merit \$ \$		+1047
Protein	+70	+0.02%	Gestation Len. -3	GMS	+1007
CFP	+187		EFI 10.2%	gEFI 10.2%	gIB 19.2%
SCS	2.79	74%R	Mastitis +1.1	Fert. Index	-0.2
PL	+5.3	73%R	Livability +1.0	Heifer Liv.	+1.0
DPR	-1.4	73%R	HCR +0.3	CCR	-0.3
RFI	-26				
Feed Saved	+12	41%R	0 Dtrs	0 Herds	100% US

Beta: A2A2 Kappa: AB DWP\$: 1071

04/2022	HA TYPE SUMMARY				TPI +3059
PTAT +1.36	77%R	UDC+1.41	FLC+0.05	BSC +0.09	0 D / 0 H
					-2 -1 0 1 2
Stature	+0.94	Tall			
Strength	+0.81	Strong			
Body Depth	+0.92	Deep			
Dairy Form	+1.81	Open Rib			
Rump Angle	+1.28	Sloped			
Thurl Width	+0.37	Wide			
Rear Legs-Side	+0.01	Sickle			
Rear Legs-Rear	-0.16	Hock In			
Foot Angle	+0.20	Steep			
Feet & Legs Score	+0.36	High			
F. Udder Attachment	+1.29	Strong			
Rear Udder Height	+2.43	High			
Rear Udder Width	+2.62	Wide			
Udder Cleft	+0.58	Strong			
Udder Depth	+0.19	Shallow			
Front Teat Placement	+0.61	Close			
Rear Teat P. Rear	+0.94	Close			
Teat Length	+0.32	Long			

Sale Terms

Twin Spruce Farm receives 30 units of conventional restriction-free semen from this bull, when he starts producing semen

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: C-Haven Positive Deluxe-ET

3210987525 4/22 PTA +2946 GTPI +1401 M
81% +126 F +0.25% +55 P +979 NM\$ +3.9 PL
-2.7 DPR 2.82 SCS +1.45 T +1.24 UDC +0.03 FLC
Positive x Slam dunk

Dam: T-SPRUCE LIONEL 13196-ET

Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC
-Fresh on 4/12/2022 Milking 90 lbs
Sire: T-Spruce Frazz Lionel-ET

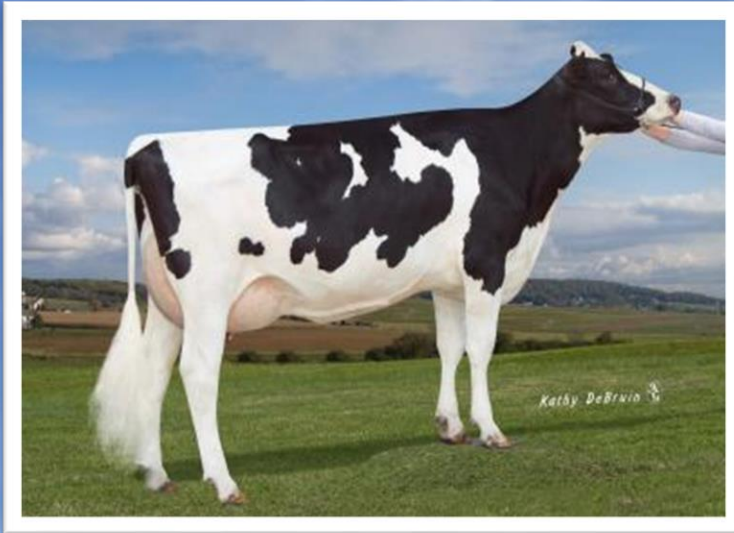
2nd Dam

T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET

3rd Dam

MERCEDES TS 9539-ET
GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p

Future Opportunity Sale



2nd Dam: Endco Yoder L7933 9839-ET

Lot E

T-SPRUCE TORRO 52219-ET

Born 01/27/2022 Reg: 840003247981661

04/2022	CDCB SUMMARY GENOMIC				NMS +1084
Milk	+1175	79%R	Cheese Merit \$		+1099
Fat	+116	+0.24%	Fluid Merit \$ \$		+974
Protein	+58	+0.07%	Gestation Len. -1	GMS	+1082
CFP	+174		EFI 9.5% gEFI 10.9% gIB 12.6%		
SCS	2.88	75%R	Mastitis +0.8	Fert. Index	+1.3
PL	+4.6	74%R	Livability +1.3	Heifer Liv.	+1.5
DPR	+0.5	73%R	HCR +2.4	CCR	+2.1
RFI	-49				
Feed Saved	+184	43%R	0 Dtrs 0 Herds	100% US	

Beta: A2A2 Kappa: AB DWP\$: 1034

04/2022	HA TYPE SUMMARY				TPI +3051		
PTAT +1.27	77%R	UDC+1.48	FLC+0.40	BSC-0.89	0 D / 0 H		
			-2	-1	0	1	2
Stature	-0.27	Short					
Strength	-0.20	Frail					
Body Depth	-0.04	Shallow					
Dairy Form	+1.48	Open Rib					
Rump Angle	+1.10	Sloped					
Thurl Width	+0.03	Wide					
Rear Legs-Side	-1.32	Posty					
Rear Legs-Rear	+0.35	Straight					
Foot Angle	+0.27	Steep					
Feet & Legs Score	+0.38	High					
F. Udder Attachment	+1.32	Strong					
Rear Udder Height	+2.22	High					
Rear Udder Width	+2.35	Wide					
Udder Cleft	+0.20	Strong					
Udder Depth	+0.01	Shallow					
Front Teat Placement	+0.81	Close					
Rear Teat P. Rear	+0.78	Close					
Teat Length	-0.99	Short					

Sale Terms

Twin Spruce Farm receives 30 units of conventional restriction-free semen from this bull, when he starts producing semen

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: Maplehurst Delroy Torro-ET

3149798696 4/22 PTA +2805 GTPI +1401 M
82% +88 F +0.12% +59 p +958 NM\$ +4.2 PL
-0.8 DPR 2.95 SCS +0.60 T +1.19 UDC -0.49 FLC
Delroy x Gatedancer

Dam: MERCEDES LIONEL LASS-ET

Reg: 3205638743 4/22 PTA +3106 GTPI
+2143 M +139 F +1108 NM\$
+3.2 PL -2.6 DPR +1.55 T +1.45 UDC
Sire: Mr T-Spruce Frazz Lionel-ET

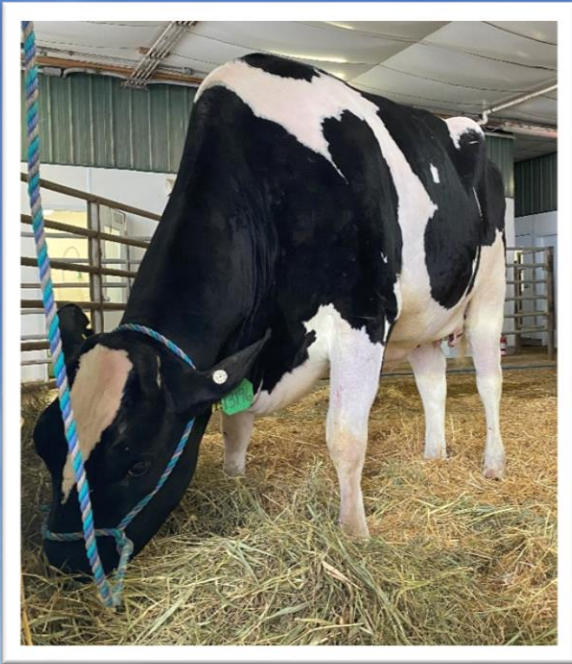
2nd Dam

Endco Yoder L7933 9839-ET VG-86
05-05 3x 350d 34320m 4.5 1560f 3.7
1255p

3rd Dam

T-Spruce Lgold 7933-ET
02-05 2x 248d 20320m 4.4 904f 3.4 687p

Future Opportunity Sale



Dam: T-Spruce Lionel 13196-ET

Lot G T-SPRUCE PAYLOAD 2040-ET

Born 11/17/2021 Reg: 840003234732025

04/2022	CDCB SUMMARY GENOMIC				NM\$ +1089
Milk	+2364	79%R	Cheese Merit \$		+1095
Fat	+114	+0.08%	Fluid Merit \$ \$		+1037
Protein	+82	+0.03%	Gestation Len. -1	GMS	+1026
CFP	+196		EFI 9.8%	gEFI 10.5%	gIB 12.5%
SCS	3.00	74%R	Mastitis +1.0	Fert. Index	+0.0
PL	+4.8	73%R	Livability +1.0	Heifer Liv.	+1.8
DPR	-1.1	73%R	HCR +1.6	CCR	+0.3
RFI	-75				
Feed Saved	+30	42%R	0 Dtrs	0 Herds	100% US

Beta: A2A2 Kappa: AB DWP\$: 1076

04/2022	HA TYPE SUMMARY				TPI +3025
PTAT +0.89	77%R	UDC+0.48	FLC+0.33	BSC +0.29	0 D / 0 H
					-2 -1 0 1 2
Stature	+0.70	Tall			
Strength	+0.76	Strong			
Body Depth	+0.72	Deep			
Dairy Form	+1.54	Open Rib			
Rump Angle	-0.25	High Pins			
Thurl Width	+1.44	Wide			
Rear Legs-Side	-0.18	Posty			
Rear Legs-Rear	+0.48	Straight			
Foot Angle	+0.41	Steep			
Feet & Legs Score	+0.45	High			
F. Udder Attachment	+0.32	Strong			
Rear Udder Height	+1.54	High			
Rear Udder Width	+1.80	Wide			
Udder Cleft	-0.62	Weak			
Udder Depth	-0.22	Deep			
Front Teat Placement	-0.84	Wide			
Rear Teat P. Rear	-0.88	Wide			
Teat Length	+0.52	Long			

Sale Terms
Twin Spruce Farm receives 30 units of conventional restriction-free semen from this bull, when he starts producing semen

Arnie Gruenes
Twin Spruce Farm
17565 Co Rd 43
Richmond, MN 56368
Cows@meltel.net
320-493-9703

Sire: S-S-I Eisaku Payload-ET
3211394853 4/22 PTA +2917 GTPI +1993 M
82% +88 F +0.04% +72 p +944 NM\$ +4.5 PL
-0.9 DPR 3.00SCR +1.32 T +0.93 UDC +1.05 FLC
Eisaku x Matters

Dam: T-SPRUCE LIONEL 13196-ET
Reg: 3205638661 04/22 PTA +3142 GTPI
+1847 M +135 F +1160 NM\$
+4.2 PL +0.0 DPR +0.84 T +.056 UDC
-Fresh on 4/12/2022 Milking 90 lbs
Sire: T-Spruce Frazz Lionel-ET

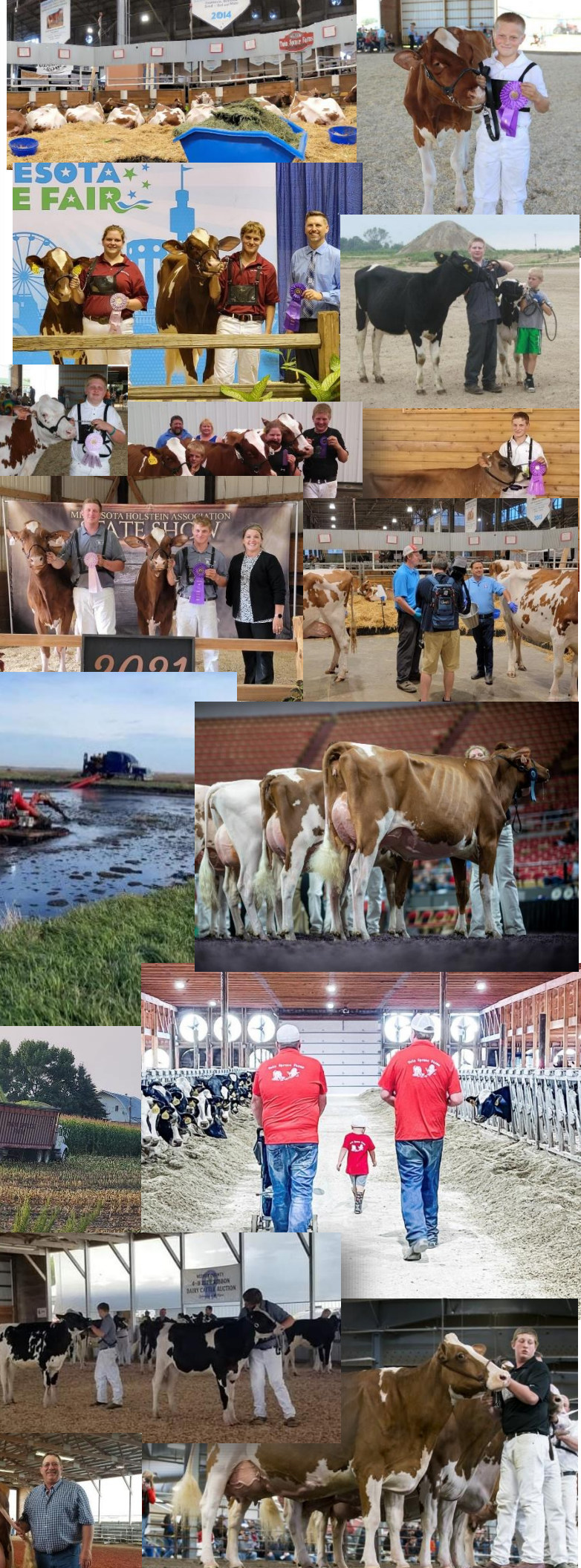
2nd Dam
T-SPRUCE SAMURI 6347-ET
Dam of T-SPRUCE LEGACY LIFT OFF-ET
3rd Dam
MERCEDES TS 9539-ET
GP-82
2-00 3x 354d 30670m 3.7 1149f 3.2 991p



Twin Spruce (Minnesota) invited to speak in Hungary

Twin Spruce is a 1700 cow dairy in Minnesota and a strong customer of the Nelson Family of Companies. Arnie and Kris Gruenes were invited to Hungary by Holstein Genetika to speak at an annual seminar of all Hungarian dairy farm owners. This seminar, sponsored by the equipment dealer

Axial, focused on the benefits of shredlage. During the week long trip, Arnie & Kris visited many other dairy operations across Hungary and exchanged experiences and ideas.



Lot	Consignment	Reg number	DOB	Aniamls Name	Beta	Kappa	DWPS	HTPI	NM\$	M	F	P	CFP	CM-Gen
1	IVF Session	3235976371	4/9/2021	T-SPRUCE TAOS 16364-ET	A1A2	AB	1040	3182	1185	1966	123	80	203	1199
2	IVF Session	3205638661	4/10/2019	T-SPRUCE LIONEL 13196-ET	A1A2	AB	1157	3142	1160	1847	135	81	216	1175
3	IVF Session	3235976730	6/15/2021	T-SPRUCE CONWAY 16723-ET	A2A2	AB	1110	3156	1201	1877	136	85	221	1217
4	sell heifer	3235977085	9/2/2021	T-SPRUCE CONWAY 17078-ET	A2A2	AB	915	3116	1082	1179	138	71	209	1104
5	IVF Session	3235976680	6/6/2021	T-SPRUCE CONWAY 16673-ET	A2A2	BB	1138	3161	1150	1196	143	73	216	1175
6	sell heifer	3220248079	2/17/2021	T-SPRUCE PARFECT 16071-ET	A2A2	AB	1073	3070	942	1973	115	72	187	952
7	IVF Session	3240345496	10/30/2021	Pine-Tree 8495 Outcome 9295	A2A2	BB		3094	1116	1451	100	68	168	1138
8	Selling Heifer	3247330106	3/1/2022	MAJR 618 CONWAY 768	A2A2	BB		3059	1076	1056	113	59		
9	Selling Heifer	3228682781	7/1/2021	Pine-Tree 8418 Rayshen 711	A2A2	BB	HH6	3002	1092	1265	112	69	181	1118
10	Selling Heifer	3228682786	8/9/2021	Pine-Tree 8418 Outcome 716	A1A2	BE		3001	963	1370	87	54	141	975
11	sell heifer	3243332333	2/13/2022	MS T-SPRUCE UPSIDE 18079-ET	A2A2	AA	1255	2979	1109	1161	103	49	152	1120
12	IVF Session	3243348098	8/29/2021	MatCrest Payload 2566-ET	A1A2			3063	1087	2119	109	81	190	1097
13	IVF Session	3219884957	11/1/2020	T-SPRUCE TAOS 15384-ET	A1A2	AB	1040	3149	1089	2572	106	82	188	1093
14	IVF Session	3235976878	7/22/2021	T-SPRUCE GAMEDAY 16871-ET	A2A2	AB	1294	3134	1124	540	137	57	194	1152
15	IVF Session	3243331729	11/14/2021	T-SPRUCE MAHOMES 17475-ET	A2A2	AB	1298	3117	1021	1423	111	69	180	1041
16	IVF Session	3243331751	11/18/2021	T-SPRUCE PROLOGUE 17497-ET	A1A2	BB	1205	3116	985	1145	145	64	209	1003
17	IVF Session	3235976910	7/29/2021	T-SPRUCE PAYLOAD 16903-ET	A2A2	AB	1122	3067	1101	1945	134	79	213	1113
18	IVF Session	3235976767	6/25/2021	T-SPRUCE PARFECT 16760-ET	A2A2	AB	828	3102	1040	1711	111	74	185	1053
19	IVF Session	3227859446	8/5/2021	PEN-COL G 6263-ET	A2A2	AA	1231	3026	1139	891	90	55	145	1163
20	IVF Session	3240345308	6/15/0221	Pine-Tree 8418 fort 9107-ET	A2A2	BB		3012	1095	1801	102	68	170	1110
21	Sell Heifer	3249796013	2/24/2022	TERRA-LINDA DYKSTRA 1150-ET	A1A2	BB	1291	3019	1044	954	103	49	152	1062
22	IVF Session	3208798891	3/22/2020	PINE-TREE 7831 LION 600-ET		AB	1110	3028	1107	2096	122	80	202	1118
23	IVF Session	3247080831	11/7/2021	Blumenfeld Supercharge 8044-ET	A1A2	BE	1204	3021	1165	1590	99	64	163	1180

Lot	Consignment	Reg number	DOB	Aniamls Name	Beta	Kappa	DWP\$	GTPI	NM\$	M	F	P	CFP	CM-Gen
24	IVF Session	3219884600	8/25/2020	T-SPRUCE RHETT 15027-ET	A2A2	AA	1326	3115	1147	780	134	59	193	1172
25	IVF Session	3235976719	6/13/2021	T-SPRUCE CRUSHER 16712-ET	A2A2	AB	1064	3104	1141	1303	136	71	207	1161
26	IVF Session	3220247891	1/17/2021	T-SPRUCE CONWAY 15883-ET	A2A2	AB	1063	3102	1123	832	141	59	200	1147
27	IVF Session	3232451017	6/16/2021	SDG-PH 8543 FRTNITE 7613-ET	A1A2	BE	1130	3009	1114	1481	111	65	176	1114
28	Sell heifer	3236651237	8/2/2021	WINSTAR MENDEL 8137-P-ET	A2A2	AA	Polled	2954	1046	571	122	44	166	1065
29	IVF Session	3228682780	4/1/2021	PINE-TREE 8439 KET P 710-ET	A1A2	BE	1035	2836	1022	411	105	41	146	1043
30	Selling Heifer	3228682811	11/6/2021	PINE-TREE 8418 GAME 741-ET	A1A2	AB	1179	3019	1104	1298	111	61	172	1124
31	sell heifer	3243332160	1/19/2022	T-SPRUCE UPSIDE 17906-ET	A2A2	BB		2924	1101	1788	87	63	150	1112
32	Sell Heifer	3231004354	5/2/2021	WinSTAR MENDEL 7930-ET	A2A2	AA		3016	1044	242	135	39	174	1069
33	Sell Heifer	3243332305	2/9/2022	T-SPRUCE UPSIDE 18051-ET	A2A2	BB	1148	2975	995	1119	107	54	161	1009
34	Sell Heifer	3243331987	12/22/2021	T-SPRUCE WARN SHOT 17733-ET	A2A2	AB	1136	2998	1038	1847	111	63	174	1044
35	IVF Session	3220247582	12/1/2020	T-SPRUCE CONWAY 15574-ET	A2A2	BB	1259	3093	1055	1403	130	69	199	1072
36	IVF Session	3235976903	7/26/2021	T-SPRUCE GAMEDAY 16896-ET	A2A2	AB	1143	3111	1134	1252	111	57	168	1150
37	IVF Session	3235976971	8/10/2021	T-SPRUCE REGAL 16964-ET	A1A2	AE	894	3087	1051	1358	104	68	172	1069
38	IVF Session	3235976525	5/10/2021	T-SPRUCE GAMEDAY 16518-ET	A2A2	AB	888	3083	1154	1404	112	72	184	1175
39	IVF Session	3235976817	7/8/2021	T-SPRUCE DELUXE 16810-ET	A1A2	AB	1183	3068	1077	1348	136	64	200	1093
40	IVF Session	3228682798	9/16/2021	PINE-TREE 8418 CONWA 728-ET	A2A2	BB	1058	3052	1064	1304	123	61	184	1080
41	IVF Session	3219885037	11/15/2020	T-SPRUCE ZAREK 15464-ET	A1A2	AB	976	3049	1094	1964	103	69	172	1105
42	Sell Heifer	3243332101	1/10/2021	T-SPRUCE ELON 17847-ET	A2A2	AB	1236	3042	1001	1207	108	55	163	1014
43	Sell Heifer	3243331941	12/14/2021	T-SPRUCE PAYLOAD 17687-ET	A1A2	AE	962	3011	1072	1615	93	59	152	1084
44	sell heifer	3235977169	9/18/2021	T-SPRUCE DELUXE 17162-ET	A2A2	AB	1174	3010	1108	1081	129	58	187	1127

Sale Index

Name

Lot

Blumenfeld Holsteins	23
Seagal Bay Dairy	28 & 32
Jim Vierhout	19 & 27
Joe and Kenny Ramsier Ramsier's Willow Spring Farm	8, 22 & 30
Johnson Holsteins	12
Terra Linda Dairy	21
Pine-Tree Dairy	7, 9 & 10
Ramsier's Willow Spring Farm and Pine Tree Dairy	29
Melarry Farm	20
Twin Spruce Farm	1, 2, 3, 4, 5, 6, 11,13, 14, 15, 16, 17, 18, 24, 25, 26, 31, 33, 34,35, 36, 37, 38, 39, 40,40,41, 42, 43 & 44 Bulls A, B, C, D, E, F & G



HOLSTEIN ASSOCIATION TERMS AND CONDITIONS FOR PUBLIC SALES

EFFECTIVE MARCH 2, 1996 - Amended October 1, 1997, June 28, 2000, June 23, 2002, March 26, 2010 and March 24, 2016

TERMS: The terms of the sale are cash unless arrangements are made prior to the sale or are printed in the sale catalog. Only when the above conditions are met will the buyer be entitled to the warranties listed below. In no case will animals be released unless settlement is made with the clerk of the sale.

RESPONSIBILITY: The seller, buyer, and manager of this sale are obligated to comply with the provisions of these terms and conditions.

EXPORT SALES: Buyer assumes all responsibility for health tests required by the importing country.

BIDS: The highest bidder is the buyer. Bidding parties or their agents are responsible for all bids placed. Every animal or lot presented for bidding is pledged to absolute sale. In case of dispute, the animal or lot will again be put up for advance bids, and if there is no advance bid, the animal or lot will be sold to the person the auctioneer accepted the last bid from. In case two or more claim the bid, the auctioneer will indicate the party whose bid he recognized. Other claimants will be given an opportunity to increase the bid and bidding will be restricted to the two or more claimants.

BY-BIDDING: Bidding directly or indirectly by the sole owner of any animal or lot is prohibited unless the intention to bid is disclosed specific to each animal in the catalog and announced when the animal enters the ring. Bidding by any member of a partnership, syndicate, or other entity having an ownership interest in an animal or lot is permitted.

TRANSFER OF OWNERSHIP: For all Registered HolsteinsSM, the transfer of ownership to the buyer will be recorded on the records of Holstein Association USA and a certificate of registration showing that transfer of ownership will be provided to the buyer free of charge. For embryos, the transfer of ownership to the buyer will be recorded on the records of Holstein Association USA free of charge to the buyer.

RISK: All animals located at sale site are at the purchaser's risk as soon as struck off, but will be cared for free of charge for a maximum of 24 hours following the end of the sale.

WARRANTIES:

- 1) Each consignor warrants clear title to the animal or lot, and the right to sell same.
- 2) To the best of the seller's knowledge, each animal is sound and healthy in every respect and embryos have been recovered, processed, frozen, transferred and graded in keeping with IETS recommendations unless otherwise noted in the catalog or announced from the auction stand. Every precaution will be taken to represent the physical condition of each lot exactly as is known. Examination of all purchases should be made immediately after the purchase and before the close of the sale, and if found not to be as represented, complaint must be reported to the sale management before the close of the sale. In the event no complaint is filed, it is understood that the buyer assumes full ownership in the case of animals at sale site together with all risks, after which no representations of the seller can be challenged through the sale management. Heifers that never calved are in no way guaranteed as to the condition of their udders following calving. The sex of an embryo or fetus is in no way guaranteed.

3) Breeding Warranty

The seller guarantees all animals to be breeders, but not beyond the purchase price, with the following understanding:

- a. Males - Should any bull after reaching the age of fourteen months fail to prove a breeder after being used for two months on cows or heifers known to be breeders, the matter shall be reported in writing to the seller within three months of the sale date. The report must include the animal's examination record, a written statement of treatment, and a statement of the animals' inability to breed,

by a licensed veterinarian. The seller has the option to refund the purchase price or make other settlement that is satisfactory to the buyer. In either case the rights of ownership of the animal return to the seller. The seller makes no guarantees with respect to the ability to freeze semen.

- b. Females - All females are guaranteed to be breeders with the exception of:
 1. Cows over 7 years of age when sold;
 2. Cows and/or heifers carrying a pregnancy that is the result of an embryo transfer.

Report of a non-breeder must occur in writing within 3 months of the date of sale or before the animal reaches 21 months of age and must be submitted to the seller. The report must include the animal's examination record, a written statement of treatment, and a statement of the animals' inability to breed, by a licensed veterinarian. The seller has the option to refund the purchase price or make other settlement that is satisfactory to the buyer. In either case the rights of ownership of the animal return to the seller.

Females bred when sold and pronounced in calf are presumed to be pregnant but pregnancy is not guaranteed unless so announced. The seller makes no warranty that pregnant cows will deliver calves or that they will carry calves full term.

- c. If, after the sale, embryos or oocytes are recovered from a female or an attempt is made to superovulate her, this negates the breeding warranty unless there is a separate written agreement between buyer and seller.

SHIPPING: Assistance will be given in arranging shipping of the animals after the sale. All costs, risks and responsibility will be borne by the purchaser.

PEDIGREE INFORMATION: All production, classification, type and production summaries are current. Only information recorded on Holstein Association USA pedigrees is used. Any production or classification records supplied by the seller or consignor will be properly identified as provided by owner. Records in progress are identified as such.

GENOMIC INFORMATION: If genomic information on the animal or embryo is available, it must be dated and disclosed at or before the time of sale.

EMBRYO TRANSFER: All registered animals that have resulted from embryo transfer are identified with one of the following suffixes in the name: ET, ETS (from split embryo), or ETN (from nuclear transfer). If unregistered, the appropriate technology will be identified. Donor dams are identified.

HEALTH WARRANTY: The seller will provide an official health certificate to the buyer for each animal showing the results of all health tests made in preparation for this sale as required by the state where the cattle reside. Other health tests completed for this sale will be disclosed.

ERRORS: The material in this catalog has been carefully edited. If any errors or omissions are discovered, they will be announced. Such announcements take precedence over that printed in this catalog.

ACCIDENT: The sale management, the consignors, and the owner of the grounds will not be responsible in any case for the condition of the grounds or the behavior of the animals and disclaim any liability in the event of personal accident or property loss.

LIMITATIONS OF WARRANTIES: Warranties contained herein, unless terminated earlier, will cease upon the resale of an animal.

thank you

