

GRAZING JERSEYS

TABLE OF CONTENTS AND BULL VITAL STATS

Name	Page Number	aAa	Productive Life	Fertility	SCS	Dairy Form	Milk Yield	Fat
Blanco-P	13	645-123	7	10	4	6	3	7
Doug-P	21	432-516	9	10	2	6	4	9
Frank-P	14-16	234-516	10	10	1	7	5	9
Frederick-PP	23	126-435	7	9	7	9	3	7
Kristofer-P	19	342-615	9	10	4	7	5	9
Lester-PP	17	312-465	8	7	4	4	5	9
Linden-P	20	642-513	6	8	6	8	4	6
Lorin-P	12	315-426	6	10	5	9	5	6
Luther-P	22	423-156	8	9	5	8	5	8
Seamus-P	31	153-462	7	9	5	7	4	9
Victory	18	516-342	8	10	3	7	5	7

Fat (%)	Protein	Protein (%)	Beta Casein	Kappa Casein	Beta Lac.	SNIP (fescue)
10	5	10	A2A2	BB	AA	
10	6	10	A2A2	BB	BB	15
10	7	9	A2A2	BB	BB	
10	4	10	A2A2	AB	AB	
10	6	10	A2A2	BB	BB	19
10	7	10	A2A2	BB	BB	13
8	5	8	A2A2	BB	AB	
6	5	5	A2A2	AB	AB	
10	6	9	A2A2	BB	AB	13
10	6	10	A2A2	BB	BB	15
8	6	8	A2A2	BB	AA	21

T-Snip™ is a genetic test that uses an animal's DNA to describe its tolerance to KY-31 toxic fescue, based on multiple genetic markers. Cattle are scored 1-50, with 1 being most susceptible to fescue toxicosis and 50 being least susceptible. Unfortunately the test is no longer available so we cannot test all of our bulls, but the results have absolutely borne out in our own experience with the bulls we tested as well as their offspring. (Dairy cows have far less fescue tolerance than beef animals, and this is test was marketed for beef cattle, hence our bulls' relatively low numbers.) Our bulls would likely fare extremely well when compared to other dairy bulls, but the industry doesn't breed or test for susceptibility to fescue toxicity. **Our three bulls with the highest T-Snip™ numbers are the most fly-resistant, have the shiniest coats, even when eating toxic fescue, and their offspring have these traits, as well.** At its extreme, toxic fescue will make susceptible animals loose weight and pant like dogs in the heat. Dr. Karreman and I have strong reason to believe that susceptibility to fescue toxicosis is related to liver function and overall animal vitality, so it's an interesting trait to look for even if you don't graze infected fescue.

OUR PHILOSOPHY

Our butterfat is between 5.7% and 6.5%. Average protein runs about 4%. Our cows are milked once a day in the mornings and keep their calves all day long, and the calves are sorted off at night and get their own grazing strip near the barn. Our cows produce 7,000 to 10,000 pounds of milk on a 305-day lactation, with heifers generally on the lower end of that range.



We milk-share with the calves, who have unfettered access to their own dams during daytime hours (until calves are six weeks old, they have access to their dams 24/7) and nurse out the cows at least 6-8 times per day. Calves weigh about 500 pounds at weaning. Bull calves are weaned at sexual maturity at around six months, and heifers stay on their dams until seven months. One of the challenges with this

program is that a significant portion of cows hold back their butterfat for their calves – and some hold back milk entirely, and they can't stay in the herd. We've found this is a genetic trait, and we are breeding for a future of dairying when more calves are raised on cows. That our bulk-tank butterfat is as high as it is hides even more butterfat that resides in our herd if they were milked in a more conventional setting. Even so, we are selecting bulls for their dams' ability to share both milk and butterfat. Some of our cows already shine at this. (Kristofer-P's dam and Lorin's daughters milk-share well.)

After several generations of cows-raising-heifers, we started to breed the best heifers at 12 months (when they are at 65% to 70% of mature size, after 10 months on their dams). Those heifers freshened at under two years of age on grass only and many of them bred back quickly. For the rest, we gave them a longer dry period and bred them back to calve at the next half-year interval. Even though they were the right size to breed, 12 months seemed too young developmentally, but if we waited longer to breed they got too fat. So we have started weaning heifers at 7 months. We wean all calves with adjustable nose rings before they are separated. We are hopeful that our new program of having the heifers live with the sheep post-weaning



will prevent a certain percentage of first-calf heifers from having to wear nose rings as cows and give them time to mature at a slightly slower rate.

Our mixed-class herd (including lactating and dry cows and calves) graze a mix of annual and perennial pastures. They are also fed dry hay and balayage. We are developing pastures from cut-over timberland with organic matter that started at 0.5 percent, so hay is a big part of our fertility program. Our cows are regularly exposed to Kentucky 31 fescue, and we have been breeding for tolerance to endophyte-infected grass. (See pg 2 for bulls that have been genotyped for fescue tolerance.) After many years of feeding supplemental non-grain energy in order to transition our herd genetically to a 100%-forage system, we no longer feed any supplemental energy except molasses chips as a training treat to get them into headlocks every day. Because the young calves are also given this treat, they are rewarded for separating off their dams in the evening, which we do with one or two people in the paddock. Our dam-raised heifers come in the parlor as springers well-socialized to our handling systems.



Kris is one of our bull mothers (see Kristofer, pg. 24). We like her because she milks out fully, even with a calf at her side, and keeps enough condition to breed back on time. She's six years old and just had her fourth calf.



Doug-P is currently breeding cows in Williamsport, PA. Shown here at the home farm, on fescue. The ability of our bulls to stay shiny on fescue is an indicator of great strength and adaptability. Endophyte-infected fescue is a tough grass for dairy animals, as it actively suppresses peripheral blood flow and can cause dry coats, fly pressure and result in poor condition. Our bulls are expected to grow and mature with a diet of about 50% fescue over the course of the year, and it's one of our tests for adaptability. See pg. 3 for more

RESULTS MAY NOT BE TYPICAL

A letter to those who believe both beauty and truth can be embodied in a cow

“Perhaps the most important essential for this system is the right cow for the job. Obviously cows which may have been bred in test tubes, reared on calf gruel, milked on high protein concentrates, kept alive on synthetic minerals and trace elements, and frequently subjected to sulphonamides and penicillin and the germ-free D.D.T.-laden air of the modern milking parlour, will not take readily to a diet of roughage and fresh air.”

~Newman Turner, Fertility Pastures, 1955

Dear seeker of high-component, A2A2, polled, forage-efficient cattle,

My goal in this catalog is to help you breed excellent cattle. There is no point showing you functionally elegant cows if you can't have functionally elegant cows, too. My dream is for family-scale, pasture-based dairy to regain its rightful place as the bedrock of stable, vital and vibrant local communities. That dream will be impossible if we continue to breed cattle to capitalize on large-scale mechanical efficiencies unrealistic for family-sized dairy.

Conventionally bred cows are efficient at turning mechanically harvested feed and industrial byproducts into massive quantities of fluid milk. But is that what you need? Probably not. So why are you buying bulls from programs that don't share a context with yours? What you need is a cow that is efficient at converting solar energy in the form of forage (not diesel fuel and steel) into component-rich milk with the right kind of proteins and abundant fat to capture the attention of an increasingly discerning consumer. A cow healthy enough to last many, many years, and easy enough to work with that you want to keep her in the herd that long. A cow whose feet and legs are up for the job of walking long distances on imperfect lanes, whose rumen capacity is large enough to store quantities of bulky grass and peacefully chew her cud while you take care of other things.

There is not one bull that is going to get you there. The game-changing bulls are once-in-a-lifetime, and chances are that by the time you find him, he's long gone. A herd of functionally elegant cattle is going to be formed one well-chosen mating at a time, with the right bull to meet the strengths and compensate for the weaknesses in each of your cows. (A balanced herd sire can get you there, too, albeit not as quickly, so long as his primary strengths are well-suited for the functional deficits of most of your herd.) Balance is the key, because otherwise a significant proportion of his offspring will become more extreme in their dam's deficits. One of the things I've observed over the years is that breeding excellence to excellence only results in excellence if the strengths/weaknesses of each animal are taken into account. And that is why there are so many bulls in this catalog.



Each bull on the following pages offers something that I want to reinvest back in our own herd. They are here because they are bulls I want to use, and along with selected bulls from other programs we admire (Holterholm Farms in Maryland and Holt Creek Jerseys in Maine), these are the bulls that we do use. One thing that is different about this catalog than others you've seen is that I'm going to do my best, without denigrating a bull, to share with you what his weaknesses are, and what kinds of cows I may not choose to breed him to. While I don't think any of these bulls are going to set your program backwards, the right bull for the right job is going to set your program forward that much faster. Because in the end, I don't want you to be impressed with our herd – although I'm more and more pleased with it every year, and you are welcome to visit. I want you to be impressed with your herd!

Perhaps the most significant conversation I had in my grass-farming journey was a denied request to purchase cattle. Twelve years ago, I knew what I was after: A2A2 Jerseys that had the strength, capacity and soundness to milk well on what the sun, rain and God's grace grew. The person on the other end of the line said: "You and everyone else..."

That is still true. Fast forward 12 years and now folks add homozygous polled and cheese-yield proteins on their must-have list. One of the most frequent calls we get is from folks who want to purchase heifers. Even if we had enough animals for sale for even a fraction of the people who call, what these animals are worth – both to us and on the open market – is far more than what most operations can afford. And in my experience, far and away the best cattle, all things being equal, are the ones that are raised in the context that they are going to be milked. So my goal in these pages is to make known what many mentors have taught me and demystify the process by which you, too, can breed sound cattle with bulls that I know are up for the job.



Let me be clear about one thing: I never imagined or aspired to selling breeding stock. For one thing, I consider myself to be a relative neophyte – even though the pursuit of excellent cattle has consumed me for more than a decade, and I've traveled the country and hauled animals (and semen) from hither and yon to put our herd together. I believe it's going to take beyond the confines of my lifetime to master this craft (and I still hope to have a half-century on the planet). Breeding great cows is a

life-long pursuit and one in which you never really get there, just closer every year. I'm passionate about it because it represents the ultimate long-game. And to do it right, we are going to have to do it together. Will Harris of White Oak Pastures in Georgia said something to me at a conference years ago that has stuck with me: Everything we are doing not only makes sense, it's the only thing that makes sense, so long as you change the length of your yardstick.

If your yardstick is a season, then mining the land and growing as much corn as possible – even if that same ground has grown corn for the past decade – is what makes the most economic sense. But if your goal is to have a farm for your kids to run on a planet that still sustains life, then we better come up with systems that not only sustain themselves but are also capable of regenerating what has been lost with short enough yardsticks to make a positive change in our lifetimes. There is no more reliable way than with our trusted friend, the dairy cow.

The privilege to be part of your farm's future is an honor that we don't take lightly. Here's to better dairying.

Gratefully yours,

A handwritten signature in black ink that reads "Suzanne". The script is fluid and cursive, with a large, sweeping initial 'S'.

P.S.

The animals you see in these pages have never eaten grain for many generations. You'll notice that they are not skinny. Like all dairy animals, our cows lose some condition in peak lactation, but we don't subscribe to the theory that a dairy animal has to appear half-starving in order to milk well. Before the trucking got prohibitively expensive, we used to feed liquid molasses on dry hay (which we consider vital for health, and butterfat) to improve dry matter intake. We still feed molasses chips in head-gates as a management and training tool. Admittedly, some cows have dropped in body condition beyond without offering liquid molasses, but decades of breeding for forage utilization has had its intended effect. We always cringe when we hear of farms "weaning off grain" in a single bovine generation. A lot of cows still need energy supplementation for their whole lives, although their daughters and their daughters' daughters may thrive without it. We believe no animal should suffer for our philosophy, and our goal is to share genetics with you that can allow you to succeed. Our ability to milk well-conditioned cows on pasture only comes from stacking multiple generations of sound husbandry practices that are considered crazy and untenable even by the standards of other pasture-based farms: raising heifers on their own dams for 7-10 months, raising bull calves on their own dams for 6 months, an obsession with feeding the soil life and selecting for overall soundness rather than single-trait obsession. The results speak for themselves and are my proof positive that we ignore epigenetics at our peril. Recent research demonstrated a statistically significant decline in first-lactation milk volume in cows whose grandmothers were subjected to a short-duration heat stress event. Can you imagine the effect that compounding multiple generations of good nutrition has on a herd? If we are going to build herds that can endure, we are going to have to invest in our young stock and soils. We will be repaid with interest. We are just going to have to change the length of our yardsticks and learn to be price-setters rather than price-takers for the value we contribute to the health of the next generation and beyond.



Polka (left, dam of Polk-P and granddam of Irwin), shown here at 11 years old. Calves graze alongside their dams and learn early to be prodigious consumers of all types of forage, including plants normally only goats eat. Herd is shown grazing brassicas as part of a soil-building cover crop. Heifers stay with dams until weaning (with a nose ring) and return to their dams before calving; the result is that maternal families are relationally intact.

WHAT DO THESE NUMBERS MEAN?

You've probably gathered by now that we don't breed by genomic numbers – we never use genomics to make individual breeding decisions. Simply matching excellence of form and function yields better results. However, we have elected to run genomic tests on our bulls as a way of evaluating our results and demonstrating one of our core tenants: Our bulls produce cows that work in a variety of contexts and are exceptional animals in their own rights. These aren't just "grazing" bulls. These bulls will produce top-performing cattle whether you have a tie-stall barn or no barn at all. Genomic numbers have their own inherent prejudices and biases, however, but they also allow us to "compare apples to apples".

We have elected for a 100% forage-based system, but our bulls sire cows that can eat corn silage and make milk accordingly (although some of them would excel at this more than others, particularly the bulls with 1's high in their aAa scores). A friend and mentor of mine took me into a conventional dairy barn several years ago where a lot of cattle from his bulls were living entirely on concrete – I would have picked a number of those cows out for a grass-only system. It was there and then that I realized, a good cow is a good cow. Our goal is to breed exceptionally good cattle, period.

A little about these numbers: For simplicity, we have elected to use the Igenity Basic profile, which provides a score of 1-10 on key traits for production. In all cases except somatic cell, a higher score is better. Dairy Form in this analysis refers to lack of susceptibility to metabolic, reproductive, foot and leg problems. A high number for Dairy Form is a good indicator of longevity because of the absence of what are often referred to as "dairy" traits, which are better described as fragility. Dairy traits on a balanced cow are a good thing indeed if you plan on milking her, but the industry has swung so far in one direction that now we have indices to guard against it... If you are scratching your head right now, you are not alone. Just think of this column as "lack of fragility." True "dairy traits" are represented by how prominently a 1 appears in a bull's aAa code.

Data on this chart is represented as estimated breeding values, which reflect the bull's own performance. Predicted transmitting ability (another common metric in genomics) is calculated by dividing the estimated breeding value by two, but that assumes that the bull is limited by 50% in his ability to transmit his traits to his offspring. The whole point of line breeding is that prepotent stock transmit their characteristics to their offspring more reliably, and stamp their offspring with their traits. The more and deeply that an animal is line-bred, the more reliable the estimated breeding value will be in determining the quality of the offspring. All bulls have tested free of recorded embryonic lethals. For more information on the genomic testing we used, visit genomics.neogen.com and look for the Igenity-Basic Results Key or call 877-443-6489.

Igenity Basic profile results and associated values*							
Igenity Basic Profile Score	Milk Yield**	Fat**	Protein**	Dairy Form***	Productive Life (months)***	Somatic Cell Score	Fertility (%)
10	5261	181	132	-3.8	9.9	0.50	5.1
9	4677	161	117	-3.4	8.8	0.44	4.5
8	4092	141	102	-3.0	7.7	0.39	4.0
7	3508	121	88	-2.6	6.6	0.33	3.4
6	2923	101	73	-2.1	5.5	0.28	2.8
5	2338	80	59	-1.7	4.4	0.22	2.3
4	1754	60	44	-1.3	3.3	0.17	1.7
3	1169	40	29	-0.9	2.2	0.11	1.1
2	585	20	15	-0.4	1.1	0.06	0.6
1	0	0	0	0	0	0	0

*Difference calculated based on Igenity Basic profile score 1.
 **Production in pounds per lactation.
 ***Combine for enhanced longevity prediction tool.

Igenity Basic profile scores range from a low of 1 to a high of 10 for each economically important trait analyzed. Data is represented as estimated breeding values, which reflect the animal's own performance. To calculate an animal's PTA (Predicted Transmitting Ability) - or the value they would pass to their offspring - divide this value by two. At least theoretically, these bulls' prepotency make it likely that they will have a greater than 50% phenotypical effect impact on their offspring.

Research has shown cows low in dairy form are less susceptible to metabolic, reproductive and foot and leg problems.² Dairy form is closely related to productive life, especially through its effect on reproductive traits. Animals receiving a 10 score for dairy form as part of the Igenity Basic profile, will have low dairy form – a good indicator of longevity.

An animal that scores a 10 for SCS has the potential for higher somatic cell counts and may be more susceptible to mastitis than an animal with a 1. Studies have also shown that cheddar cheese yield can be up to 8% higher and mozzarella up to 12% higher with BB milk versus AA milk.

Like kappa casein, there are several different forms of beta casein (A and B). Higher milk yield is associated with the A variant while higher protein and casein yields are associated with the B variant. Beta casein B is similar in effect to kappa casein B. All of our bulls and all the cows we've ever tested have had AA for this trait. Beta lactoglobulin is a major whey protein that has a significant effect on casein number and cheese yield. The B variant has higher casein and cheese yields.

Lorin-P

Reverence Procyon Lorin {5}-P
born: November 2015

USA173256217 • 120JE3084 • aAa: 315-426 • A2A2
AB/AB kappa-casein/beta-lactoglobulin

Lorin's daughters are proving to be nice cows: easy-going dispositions, milky without being frail, high components and they breed back. Lorin himself is remarkable in appearance and presence. He is so solidly masculine and undeniably commanding that no other bulls challenged him when he returned from West Virginia, where he bred hundreds of cows on two organic dairies. He never lost his happy lines, even after coming off eating corn silage (and even on it, he wasn't too fat) and going back onto toxic fescue. The top photo was taken coming straight out of winter.

No bull ever challenges Lorin, even though he never overly shows dominance. We've never seen anything like it. He just knows who he is, and other bulls do, too. In that way, he's just like his dam, who was a boss cow and knew it but rarely showed it.

She was just the matriarch. She found me when I went to Nebraska to purchase three other cows, and earned a farm retirement for a couple of years because of her good nature.

Lolly was a nicely uddered cow from the North Coast group in Ohio, where longevity, feet and legs and fertility were selected so strictly that the only way a bull could be in the program was if a cow had a calf every year for 10 years, and never had a problem of any kind. She was out of one of Alvin Hilty's best cow lines (Snuggle). The most remarkable thing about Lolly was that she loved to eat — she was always grazing, even when other cows were panting in the shade.

Lorin's sire, Procyon, was line-bred to ISNZ Williams Minstrel, the grandsire on both sides of his pedigree. Minstrel was a son of the late, great ISNZ Van Der Fits Fjord, who holds the record for the most daughters in New Zealand, several decades after his death. Procyon's daughters were so popular at Holt Creek Jerseys that the farm didn't have any left, because every time someone came to buy heifers, they chose his first.

Lorin passes to his daughters excellent feet, good udder confirmation, openness in the rear for good reproductive health and carrying capacity. He is both strongly dairy and easy-keeping, making for solar-efficient milking daughters who breed back, walk to the barn and carry out all the tasks of being a dairy cow with beauty and grace, and likable to boot.



ISNZ WILLIAMS MINSTREL			
JENZL000000300011	THE BALLADEER OF HOLT CREEK		
HOLT CREEK BAXTER BITSY 221		JEUSA000115942880	
JEUSA000115021866			HOLT CREEK PROCYON {4}
ISNZ WILLIAMS MINSTREL			JEUSA000117962134
JENZL000000300011	HOLT CREEK MINSTREL PROVO {3}		
HOLT CREEK CLARION 119 {2}		JEUSA000115110063	
JEUSA000115021857			REVERENCE PROCYON LORIN {5}-P
JPR SUNARCHUS-P			JEUSA000173111260
JEUSA000111282511	ELANELS SUN POWER-PP		
ELANEL TYNGS CARLA TULIP-P		JEUSA000113127726	
JEUSA0000003918902			ALANLIN SP SNUGGLE LOLLY-P
ELANEL POWER PACKAGE-P			JEUSA000115864364
JEUSA000111031683	ELANEL PP FAIRY SNUGGLE-P		
ELANEL PRECED NORMA FAIRY-P		JEUSA000114289003	
JEUSA000004017390			

Blanco-P

Holterholm Blanco-P

born: May 2016

aAa: 645-123 • A2A2 BB/AA

Blanco is a one-of-a-kind bull for his incredible strength, form and capacity, all in one package. He's incredibly solid and will bring down frame size, without compromising on production capacity. Ron Holter, who bred him, described Blanco as a young bull this way: "The only thing I can say about this guy was if he was PP he would not be leaving the farm. I like everything about his dam and think that Blackjack will only make the offspring better." He has exceeded our expectations.

Blanco's dam, Keiko, is still producing at 12 years old. Her lifetime production is 6000 lbs fat and 4500 lbs protein, on perennial pasture only, no grain and very minimal supplementation of any kind. Blanco's sire, Blackjack, was the herd sire at Holterholm Farm for four years, so happy was Ron with his offspring.

Blanco is a bull we collected, sold and sorely missed after his straws were lost in a tank failure at the distributor. His absence in our matings in the past two years has been marked. We were able to get him back from Canada, and are as grateful to have him back on the home farm as we are to be able to offer his straws to you.

We are using Blanco on cows that need the polled trait along with sturdy frames, straight-backs, strength and capacity, while not compromising on dairy form and elegance. Blanco has tremendous rumen capacity, a lot of strength in the chest and capacity in the rib cage and his daughters promise to have good feet. Before he left for Canada, he sired a bull and a heifer (shown above), and both stood out from a young age for their beauty, shine, and thriftiness. I like everything about this bull, and the only thing I've not seen him improve is the bull calf out of him is a little cow-hocked like his dam. (Blanco is not cow-hocked, but he didn't fix this in one mating that I've seen.)



ISNZ BELEDENE DUKES LANDY			
JENZL000000302702	HOLTERHOLM LANDY 11TH-P		
HOLTERHOLM AUSTIN LINETTE-P	JEUSA000117124743		
JEUSA000114567107		HOLTERHOLM LANDY 21ST {6}-P	
LANDYS GENESIS I OF ALANLIN-P		JEUSA000118067047	
JEUSA000115346170	HOLTERHOLM GENESIS CORNELIA {5}-P		
HOLTERHOLM SUN CORIANDER {4}	JEUSA000116612625		
JEUSA000114567086			HOLTERHOLM BLANCO-P
ISNZ BELEDENE DUKES LANDY			JEUSA000119686757
JENZL000000302702	HOLTERHOLM LANDY VICTORY		
HOLTERHOLM SAMSON VIDA	JEUSA000115436284		
JEUSA000112610573		HOLTERHOLM VICTORY KEIKO	
HOLTERHOLM BUBBA LUDLOW-P		JEUSA000116612782	
JEUSA000114574277	HOLTERHOLM LUDLOW KELULA		
HOLTERHOLM TIP KELLIA	JEUSA000115435760		
JEUSA000114570620			

Frank-P

JX Reverence Becker Frank-P {4}

born: February 2017

aAa: 234-516 • A2A2 BB/BB

This is my favorite bull in the catalog, bar none. Frank is structurally correct and balanced in every way. His thurl is centrally placed. His daughters promise to be fertile, milk well with high components and have excellent feet. He has a functional head and intelligent countenance. His still-wet offspring consistently walk ahead of their somewhat confused dams to the barn, nursing out all four quarters as they lead the way (maneuvering their necks around their dams' moving back legs and nursing out the rear quarters, too). Their functional intelligence and strength from birth is remarkable – they are born knowing everything they need to know about being dairy animals.



Frank will add openness, strength and functional height to your cows, which doesn't mean they will be tall – but they will have high and tight udders. His dam is only 45" and his sire was also a small-framed animal. His daughters promise to have high, elastic udders that stay clean and well-attached. He also contributes plenty of openness for capacity in the udder, as well as pelvic width for easy calving.

Frank has near perfect feet and legs and lots of openness in the chest for respiratory and circulatory health – his daughters are going to be able to walk to the barn, every day, for the duration of their long, productive lives. Both his dam and his sire are exceptionally fertile animals. His sire bred most of the animals he was exposed to as a 15-month-old, even though there were two other larger and more mature bulls present. His dam is fertile even in the sweltering NC heat and humidity. We started to bred Frank's daughters at 12 months old because they were just inside the window of maturity/size, which they reached with grass, hay and their dams' milk only.

To say that Frank surprised me would be an understatement. The product of an accidental mating, Frank was born when his dam was only 16 months old. She calved every year after that and continued to grow. When someone whose eye for Jersey cattle is far superior to mine picked him out of the herd and said, "that's a fine-looking bull," I felt like David's father, Jesse, in 1 Samuel: "Frank!?" But my friend and advisor was right. There is something really different about Frank's calves from birth, and as they've become bred heifers, we continue to like their soundness and disposition. Frank bred cows in Canada at a 300-cow organic grazing dairy for a couple of years, and he's back home so we can continue collecting him.

Full-disclosure: Frank's dam was a fraternal twin to another heifer, and the twinning came from the maternal line. Interestingly, we have gotten one set of identical twin heifers out of him (confirmed by genetic testing). The JX in his name comes from a sound Shorthorn cow distantly in his pedigree (his great, great, great, great, great-grandmother, bred by a Nebraska women known her for fine cattle), and that cow is in his pedigree twice (the second time with one more "great").

Reflections on the line-breeding that may explain Franks “old-worldliness.”

The more I reflected on Frank’s calves, the more I wondered what had made him what he is. I knew he was line-bred (top and bottom) to Branched Oak Balladeer Bruno (and thus also intensely to Van Der Fits Fjord, who holds the record for the most daughters ever sired in NZ), as well as to a beloved cow line from a nearby dairy where we got foundation stock (Chapel Hill Creamery), but it took me working out his pedigree several generations back to see what the significance might be. What I found is just a hypothesis, but it’s the best one I can surmise: Frank’s more recent line-breeding to Fjord (via animals one might describe as having “grazing genetics,” if there was such a thing) brought out and intensified the same but further-back line-breeding in the parts of his pedigree that of late had much stronger high-volume, high-input, high-maintenance (read: present-day conventional) genetics bred in, but started with the same fundamentally sound foundation stock. In the process, what we got was a deep, deep line-breeding, on both sides of his pedigree, back to the cows and bulls that made Jerseys what they are: the greatest dairy breed for components on the planet.

A much larger family tree would be needed to show all the connections, but suffice to say that all of the 6th generation animals that are highlighted yellow have a strong Glanton Red Dante influence, and many of them are line-bred to Dante. Dante had a profound influence on both commercial and pedigreed herds world-wide because his daughters matured into magnificent dairy cows of great confirmation and longevity.

Dante got the endurance he transmitted to his offspring in part through an Island Jersey bull, Brampton Dreaming Sam. Sam’s daughters were prolific butter producers to a great age. (Meon Metalline produced until she was 25 years old. Meon Nehutai produced 888 lbs of fat.) Sam came of age in the Great Depression, and because of the economic challenges of the times his daughters were dispersed into dozens of different herds, where each of them became the best cow in the herd. They were capacious, level-topped cows with good udders that lasted. He put butterfat into the Jersey breed, and his influence is seen in such bulls as Fyn Haug, Fyn Lemvig, Fyn Tved and Q Impuls.

The pink in Frank’s pedigree represents lineage of Bowlina’s Oxford Sultan, the sire of Sam’s dam, an Island cow described in the history books as “wonderfully uddered.” Most of Sultan’s influence comes through Observer Chocolate Soldier, a production bull to whom many, if not most, of modern Jersey cows, can trace back. When I look at the cow families behind the more modern production bulls such as Chocolate Solider, I often wish I could have access to the genome that produced them, and I would have kept the sturdiness, butterfat and functional elegance and not bred for such extremes in fluid production.

In Frank, it seems that accidentally I may have stumbled inadvertently on how to do just that: by taking modern-day descendants of a great bull (which really comes out of a great cow family or families) – that work in environments that ask the cow to preform on the basis of her own innate abilities (grazing, walking, natural fertility, livability) rather than high levels of catering to narrow parameters of production optimization – and crossing them back on decedents of that same bull or bulls through more modern, high production lines, but always with the intent of marrying form and function, we maybe, just maybe, be able to bring the Jersey cow back to the undeniable greatness that made her known the world over.



See the next page for Frank’s five generation pedigree.

ISNZ BELEDENE DUKES LANDY				
UR BELEDENE DUKES LANDY OF SEDALIA				
YELLOWBRANCH PRIMROSE	JEUSA000173158377			
		UR REVERENCE SEDALIA LANDY DUKESIII		
SZN WILLIAMS PRINCE OF HEARTS		JEUSA000173158612		
	CHC HEARTS GREELEY {1}			
UR UNKNOWN JERSEY DAM {0}	JEUSA000119960950			
♥ NZL WILLIAMS BRYANT GR			UR REVERENCE DUKESIII ALEC	
	ISNZ CHEERS JOY OMEGA GR		JEUSA000173254149	
★ NZL CHEERS ADS JOY SJ3	JENZL000000097507			
		CHC CHEERS JOY OMEGA AZALEA {6}		
ISNZ PARKWOOD CASPER		JEUSA000173254091		
	CHC CASPER AMAZON			
+ TIDY GUSTO CHC VIRGINIA {4}	JEUSA000173254082			
ISNZ WILLIAMS MINSTREL			UR JX REVERENCE ALEC BECKER-P	
	THE BALLADEER OF HOLT CREEK		JEUSA000173256217	
HOLT CREEK BAXTER BITSY 221	JEUSA000115942880			
		JX BRANCHED OAK BALLADEER BRUNO {4}-P		
ISNZ WILLIAMS MINSTREL		JEUSA000067061539		
	JX BRANDED OAK BRUNHILD {3}-P			
JX HOLD CREEK BLOSSOM {2}-P	JEUSA000067012462			
		JX REVERENCE BRUNO ANNABELLE {5}-P		
HIGHLAND DUNCAN LESTER		JEUSA000173254055		
	LESTER SAMBO			
BOOMER BELLE	JEUSA000000658836			
		CHC SAMBO AUDREY {5}		
AVON ROAD BYRD-ET		JEUSA000173235632		
	+ CHAPMAN CHC ALLISON {4}			
CHAPMANS RIVER GEN {3}	JEUSA000173235593			
ISNZ VAN DER FITS FJORD GR			UR JX REVERENCE BECKER FRANK-P	
	ISNZ WILLIAMS MINSTREL		JEUSA000173261938	
NZL WILLIAMS ADS MINSTRELL	JENZL000000300011			
		THE BALLADEER OF HOLT CREEK		
HOLT CREEK SELECT BAXTER		JEUSA000115942880		
	HOLT CREEK BAXTER BITSY 221			
SOUTHERN EDGE JAVA DOT	JEUSA000115021866			
		JX BRANCHED OAK BALLADEER BRUNO {4}-P		
		JEUSA000067061539		
ISNZ VAN DER FITS FJORD GR				
	ISNZ WILLIAMS MINSTREL			
NZL WILLIAMS ADS MINSTRELL	JENZL000000300011			
		JX BRANDED OAK BRUNHILD {3}-P		
HOT CREEK BLACKTOP BLISTER		JEUSA000067012462		
	JX HOLT CREEK BLOSSOM {2}-P			
JX BRANCHED OAK 890 {1}-P	JEUSA000067012466			
			JX REVERENCE BRUNO GLIMMER {3}-P	
			JEUSA000173233742	
HIGHLAND DUNCAN LESTER				
	BANCREST LESTER AVERY			
BANCREST PAL 667 {6}	JEUSA000000659230			
		FOREST GLEN AVERY ACTION-ET		
EAS MADISON VENTURE 145-ET		JEUSA000111023978		
	WOLF RIVER BERRETTA ADDIE-ET			
BOOMER SOONER BERRETTA {6}	JEUSA0000003925986			
NZL PASPALUM PERCYS ACE			CHC ACTION GRACIE {2}	
	ISNZ WILLIAMS ACE OF HEARTS		JEUSA000173130713	
NZL WILLIAMS ADMIRAL 95138	JEUSA000119960950			
UR UNKNOWN JERSEY SIRE {0}		CHC HEARTS GREELEY {1}		
	UR UNKNOWN JERSEY DAM {0}	JEUSA000119960950		
UR UNKNOWN JERSEY DAM {0}				

sired by

- Traces back to Boulina's Oxford Sultan, who sired a wonderful-utered Island cow, the dam of Brampton Dreaming Sam
- ♥ Deeply line-bred to Brampton Dreaming Sam on both sides of his pedigree
- Strong Dante influence
- ★ Dante is both maternal & paternal grand sire
- + Half sisters of same sire

Lester-PP

Holterholm Blackjack Lester-PP

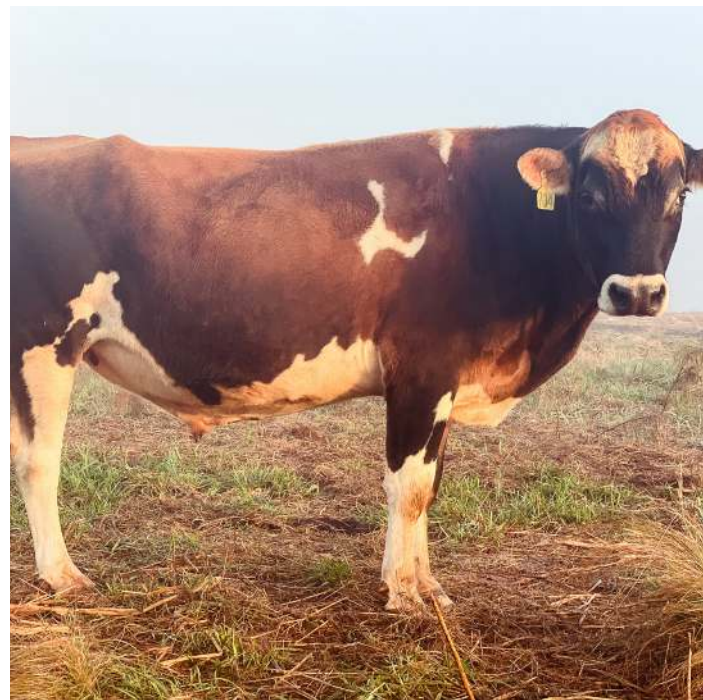
born: May 2017

aAa: 312-465 • A2A2 BB/BB

Lester is a gem that we didn't think made it. His dam – the most maternal cow we've ever known – came to the barn one morning with two other cows who had calved that morning. By the next day we figured out that she had freshened, too, and we assumed the calf had died. We went in the woods and found him alive and quite well – he bolted out of the woods as if on an energy drink. Leslie had been taking care of him secretly for at least 24 hours. Maternal cows make milk and have tremendous will to live and reproduce.

His dam's maternal line is long-living, healthy and pleasant cows to have in the barn. Her dam is still milking at 13 years old, and had a calf every year until she was 12 years old, on perennial grass only, with no supplementation other than mineral. Her granddam is the same granddam to Lester's sire, and was also a long-living, productive and fertile cow. Lester's sire's dam had a lifetime butterfat of 5.5% with 3.6% protein. Lester's dam produced 6.6% butterfat and 4.1% protein in her first lactation. (We do not have good DHIA records for her after that because she was an incredibly attentive nurse cow.)

Lester is a dairy bull, through and through. He's not as capacious as some of our other bulls, but we expect him to not weaken strength, capacity or sturdiness in his daughters, because those traits are also deeply line-bred into him. His sire was the herd sire Holterholm Farm for four years, and is incredibly balanced and has "smooth" as his most prominent trait, and so that is part of Lester's prepotency. The incredible productivity, length of life and fertility of all the dams in Lester's pedigree speaks for itself, and those are the kinds of traits that come through in quality breeding. We've used him heavily on sturdy animals that need length of leg, dairy form and openness in the rear (room for an udder). So confident we are of his overall soundness despite his somewhat heavy 321 characteristics that we have also elected to use him on some horned animals who are not overly sturdy or strong, but out of whom we want polled offspring, because we are confident he will not detract from existing strength or structural soundness. Although we have had zero calving issues with his offspring, Lester tends to throw larger calves than some of the other bulls in the catalog. They look a week old at birth and function commensurately. I would not use this bull on a cow lacking in strength, however. Lester is a very easy-going bull, but his mother was a more nervous cow. He seems to have gotten his sire's dam's calm disposition.



ISNZ BELEDENE DUKES LANDY			
JENZL000000302702	HOLTERHOLM LANDY 11TH-P		
HOLTERHOLM AUSTIN LINETTE-P	JEUSA000117124743		
JEUSA000114567107		HOLTERHOLM LANDY 21ST {6}-P	
LANDYS GENESIS I OF ALANLIN-P		JEUSA000118067047	
JEUSA000115346170	HOLTERHOLM GENESIS CORNELIA {5}-P		
HOLTERHOLM SUN CORIANDER {4}	JEUSA000116612625		
JEUSA000114567086		HOLTERHOLM BLACKJACK LESTER-PP	
FAIRWAY TOPKICK DEACON-P		JEUSA000173230093	
JEUSA000112643858	ISNZ ARDACHIE LUCA-P		
NZL ARDACHIE FJORD LUNA	JENZL000000310710		
JENZL BXYW20000084		HOLTERHOLM LUCA LESLIE-P	
EICHHORNIA CRASSIPES DOCORBULF-P		JEUSA000118487494	
JEUSA000110490977	HOLTERHOLM DCBF LINORE-P		
HOLTERHOLM AUSTIN LINETTE-P	JEUSA000115985274		
JEUSA000114567107			

Victory

Holterholm Lt. Landy Victory {6}

born: September 2017

aAa: 516-342 • A2A2 BB/AA

Victory is a son of the late, great Beledene Dukes Landy, easily the most influential and subsequently line-bred sire among graziers in the United States. His dam is also a twice descendant of Landy, whose dam is out of another influential sire, Holterholm Lieutenant. She is a 90-point cow capable of putting 10k lbs of milk in the tank per year, shown here at 10 years old.

This bull is a power package. His dam is an incredibly capacious, sturdy yet milky dairy cow who adds something special to the herd with her markings. When Hue and I got married, he wanted a Holstein on the farm – he got Maisie instead, a full-blooded, pedigreed Jersey with the “right” coloring. She is a milk wagon, and her only fault is she likes to lay in the mud, probably trying to make herself look brown, because Maisie doesn’t like standing out from the crowd. She’s a boss without being bossy.

Our calves out of Victory are small-framed, thrifty and intelligent from birth – not a dull one in the group. They dance around as soon as they are born.

Victory’s functional elegance and intelligent head is reminiscent of his famous sire, and he has his dam’s all-business temperament. He bred heifers in the heat of summer when it was nearly 100 degrees for many days in a row. He offers rumen capacity, spring of ribs, fineness of bone, will to milk, and sturdy frame, including sound feet and legs. Victory doesn’t lack for openness in the rear, nor strength, although he isn’t our strongest bull. The only thing he lacks in abundance is udder height and length of leg, but these characteristics are not absent, either. Overall, he’s quite balanced.

When we had a e.Coli challenge in our young calves this year due to the bedded pack, Victory’s calves had a much easier time of it than calves of other bulls. Even though “strong” isn’t high in his aAa, all the evidence is that he imparts a great deal of strength.

The first thing that comes to mind with this bull is “classy.” He is serving at the herd sire at the Wisconsin dairy that has had Mr. Connor for three years, a high bar to match, but Victory has the chops to do it. We like everything about our Victory offspring besides his horned genetics and milk proteins, but if you see a horned animal in this catalog, you can count on him being among the best of the best. Victory is at the top of that list.



NZL HASTY RIVER ROSLYN SULTAN JENZL000000064299	NZL LAMORNA ROZ DUKE JENZL000000064647		
NZL LAMORA DESIGNS DAVINIA JENZL000JR753805F		ISNZ BELEDENE DUKES LANDY JENZL000000302702	
NZL FAIRWAY NOBLE GRANDEE JENZL000000064527	NZL BELEDENE NOBLE LYDIA JENZLBHKJ19850083		
NZL BELEDENE SULTAN LIBBY JENZL000JR755762F			HOLTERHOLM LT. LANDY VICTORY {6} JEUSA0001173128501
HOLTERHOLM LIEUTENANT-P JEUSA000115436314	HOLTERHOLM LIEUTENANT 12 (4)-P JEUSA000116813242		
HOLTERHOLM TIP CLAIREN (3) JEUSA000114566991		HOLTERHOLM LT12 MAISIE (5)-P JEUSA000117586837	
HOLTERHOLM LANDY VICTORY JEUSA000115436284	HOLTERHOLM VICTORY ELIZA JEUSA000116812885		
HOLTERHOLM BUBBA ELSIE-P JEUSA000115435649			

Kristofer-P

Holterholm Lieutenant Kristofer

born: August 2018

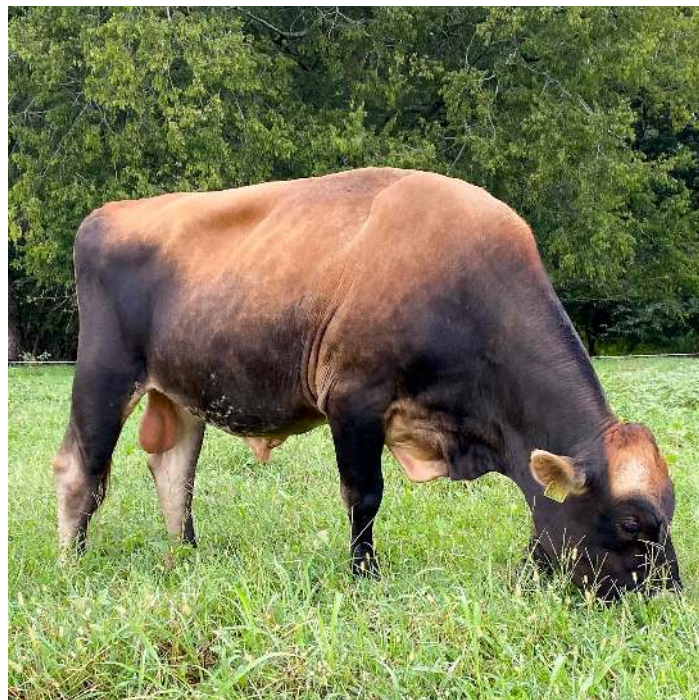
aAa: 342-615 • A2A2 BB/BB

Our fall 2021 springing heifers are bred to Kristofer. We haven't committed to using a single bull on heifers for a number of years, but Kristofer was an easy choice. He is a fine balance of strength and dairy traits, and he will work well in a variety of circumstances. He is the bull to choose for cows needing fertility, strength, and higher, wider and more supple udders.

Kristofer started showing his strength as a very young calf when we were having trouble in extreme summer heat with a pathogen in some non-dried sawdust bedding, and he got a navel infection and had a 107 degree fever that persisted for days and days – we had to keep him cool with a hose every afternoon. Remarkably, he pulled through without any noticeable or lasting damage to his vitality. Strength is as strength does. The most accurate test of strength in any animal is what kind of challenge can the organism endure without damage. A lesser animal certainly would have died, and Kristofer came out unscathed.

And it's no wonder. Tracing his pedigree back 50 years, there many, many generations of quality animals. Kristofer is line-bred on both sides of his pedigree to Beledene Dukes Landy, and he's also line-bred on both sides to Sunarchus, a bull bred by Dr. John Reber of the NorthCoast group that produced a lot of nice daughters and was the sire of Holterholm Lieutenant. Lieutenant is Kristofer's sire and the sire of his maternal granddam. (Sunarchus also appears as the maternal granddam of Cornelia, Kristofer's maternal great-granddad and herself a Landy daughter. Landy appears in Kristofer's pedigree four times in the first five generations.) And there is no arguing with the longevity of the Lieutenant's influence on grassfed dairying in the US. He was an exceptional bull with the kind of daughter's you'd like a whole herd of.

Kristofer's dam is a really pleasant cow that doesn't stand out, in a good way. She's healthy, content and does her job without fuss (we ask a lot of our cows – to be a milk cow and to raise a calf – and some of them are real drama queens about it, but not Kris). She has a nice udder, breeds back and is a cow we'd like more of. Her averages for her fourth lactation are: 5.5% butterfat and 4.1% protein. Keep in mind that cows can and do hold back butterfat for their calves, and Kris does it less than other cows, but without a calf on her she would likely have a butterfat of around 6%. She completed her 3rd lactation with a SCC average of 38,000.



STEINSON WATERCRESS GEORGE {6}-PP JEUSA000000661434	JPR SUNARCHUS-P JEUSA000111282511		
JOHNREBER SARDIS DOTH SUNNY-P JEUSA000003783974		HOLTERHOLM LIEUTENANT-P JEUSA000115436314	
ISNZ BELEDENE DUKES LANDY JENZL000000302702	HOLTERHOLM LANDY LILA JEUSA000113846919		
LILY OF GREEN GABLES JEUSA000112015510		HOLTERHOLM LIEUTENANT KRISTOFER-P JEUSA000173734364	
HOLTERHOLM LANDY 11TH-P JEUSA000117124743	HOLTERHOLM LANDY 21ST {6}-P JEUSA000118067047		
HOLTERHOLM GENESIS CORNELIA {5}-P JEUSA000116612625		HOLTERHOLM BLACKJACK KRIS-P JEUSA000119291472	
HOLTERHOLM LIEUTENANT-P JEUSA000115436314	HOLTERHOLM LT. KRISTINE-P JEUSA000117124172		
HOLTERHOLM BENNIE KELSEY {6}-P JEUSA000113846807			

Linden-P

Holterholm Linden {4}-P

born: May 2017

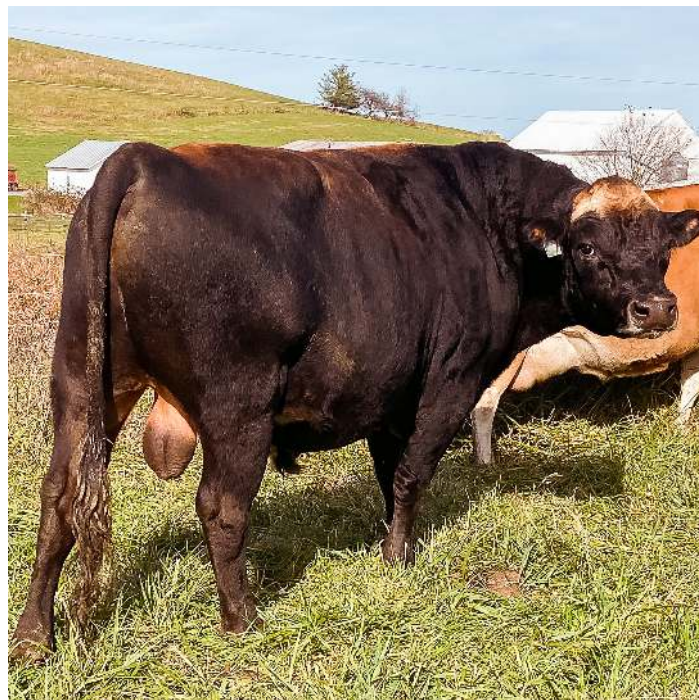
aAa 642-513 • A2A2 BB/AB

Linden-P was bred by Holterholm Farms in Maryland and now is a herd sire in Virginia (Creekbrook Farm). Ron Holter and his family milk 150 cows (including 40 nurse cows) on perennial grass and ship to Organic Valley. I was interested in this bull for one reason: He is an A2A2 descendant of an exceptional cow that Ron sold me in 2017 that happened to be A1A2, and out of whom we never got an A2A2 offspring.

Inez was beautiful, sweet and a serious milker with high components. Her last lactation on test (her fourth lactation, we used her as a nurse cow because we only put A2 milk in the tank) produced more than 10k lbs of milk at 6.3% fat and 4% protein. Her lifetime average (on test, including her younger years) was 6.1% fat and 3.9% protein. She produced until she was 10 years old. She always had a low somatic cell count (averaged 143k and later in life dropped to 80k) and had an incredible disposition – she was serious about being a milk cow yet also gentle, docile and confident. She scored 90 points from the American Jersey Cattle Association. (Her daughter, Linden’s dam, has not been analyzed, but Ron says she’s an excellent cow, as well.) Inez’s sire was a primo bull, Holterholm Lieutenant. Every year his influence in grass-fed dairy grows as more of his sons and grandsons sire functionally beautiful cows.

Another jackpot aspect of Linden was the fact that Linden’s dam’s sire was another one of my favorite of Ron’s bulls, Holterholm Electra, who also happened to be A1A2. We are milking several A2A2 Electra daughters (including one of our best, who is 10 years old) and they are great cows. The double A1A2 influence in Linden’s pedigree while nonetheless turning out A2A2 is a great treasure.

Linden himself doesn’t disappoint. He has a calm but commanding presence and elegant gate, fitting of a aAa 6 bull. He has plenty of strength. Like all the cows in his pedigree, he will produce high and tight udders in his daughters. He is a balanced bull, and does not lack for roundness or openness in the rib. I especially like his intelligent head, an overlooked but important grazing trait, with his eyes wide-set but still looking forward. I would not use him on cows needing pelvic width.



STEINSON WATERCRESS GEORGE {6}-PP JEUSA000000661434	JPR SUNARCHUS-P JEUSA000111282511	
JOHNREBER SARDIS DOTH SUNNY-P JEUSA000003783974		HOLTERHOLM LIEUTENANT-P JEUSA000115436314
ISNZ BELEDENE DUKES LANDY JENZL000000302702	HOLTERHOLM LANDY LILA JEUSA000113846919	
LILY OF GREEN GABLES JEUSA000112015510		UR HOLTERHOLM LINDEN {4}-P JEUSA000172618401
JPR SUNARCHUS-P JEUSA000111282511	HOLTERHOLM ELECTRA-P JEUSA000116613112	
HOLTERHOLM BROWNSON ELLA JEUSA000113846713		HOLTERHOLM ELECTRA INGA {3}-P JEUSA000118013093
HOLTERHOLM LIEUTENANT-P JEUSA000115436314	HOLTERHOLM LIEUTENANT INEZ {2}-P JEUSA000116612988	
HOLTERHOLM CASPER SAMMIE JEUSA000111313419		

Doug-P

Reverence Lieutenant Doug-P {5}

born: May 2018

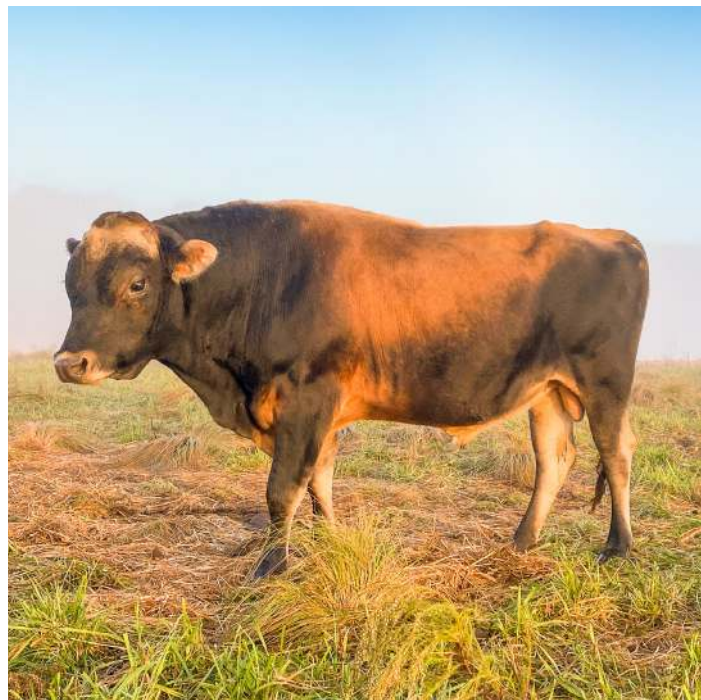
aAa: 432-516 • A2A2 BB/BB

We are really excited about our daughters out of this bull, and we've bred him to some of our best. He brings his sire's milkiness, longevity and dairy elegance with his dam's strength and elastic udder, and we are elated to have a bull with this much strength out of Holterholm Lieutenant, and from a cow line high in components. Doug, Luther and Kristofer are the strongest bulls in the catalog. (A younger photo of Doug is shown here because it shows his width of chest.)

Doug's cow family line is full of durable, grazing, high-component and long-living cows (his maternal granddam is Daniel's dam). He is a strong bull while also being strongly dairy. Easy to work with, his dam was also by far the prettiest and fastest-growing heifer in her class. (Unfortunately, his mother died of bloat in her second lactation.) His sire, Holterholm Lieutenant, was the herd sire at the Holter farm in

Maryland for many years before moving to Holt Creek in Nebraska, where he was revered enough to retire in the pasture at 10 years old. Lieutenant's daughters are, as a group, my favorites. Like both his dam and his sire, Doug has an easy-going disposition.

Doug was the product of an unintentional aAa pairing that showed the balance that comes from suitable matches. (Dam: 516; sire 315.) The only thing that Doug's dam was lacking that he didn't get from his sire was 6, the style trait, and, fittingly, it's the trait he will pass onto his daughters the least. Besides strength, the traits he got most in abundance from both his parents is openness and udder (testicle) elasticity, which is abundantly evident when looking at him from the rear. The only cows he wouldn't be good on are ones needing better feet or capacity/roundness, although he has plenty of ancestors with really solid feet and rumen capacity and he's not likely to worsen those traits, just not significantly improve them. Doug's offspring have been easy to calve in and they are not big calves but they grow fast.



STEINSON WATERCRESS GEORGE {6}-PP JEUSA000000661434	JPR SUNARCHUS-P JEUSA000111282511		
JOHNREBER SARDIS DOTH SUNNY-P JEUSA000003783974		HOLTERHOLM LIEUTENANT-P JEUSA000115436314	
ISNZ BELEDENE DUKES LANDY JENZL000000302702	HOLTERHOLM LANDY LILA JEUSA000113846919		
LILY OF GREEN GABLES JEUSA000112015510			UR REVERENCE LIEUTENANT DOUG {0}-P JEUSA000173734382
UR REVERENCE DUKESIII ALEC {0} JEUSA000173254149	JR JX REVERENCE ALEC BECKER {0}-P JEUSA000173256217		
JX REVERENCE BRUNO ANNABELLE {5}-P JEUSA000173254055		REVERENCE BECKER DAISY {1} JEUSA000173261929	
ISNZ HAWTHORN GROVE ZEUS-ET JENZL000000304119	CHC ZEUS DINA {3} JEUSA000173199648		
CHC RED RIBBON DANNIE {2} JEUSA000173199639			

Luther-P

Reverence Jacob Luther {5}-P

born: September 2018

aAa: 432-156 • A2A2 BB/AB

Luther is the chosen sire this year for a number of our best cows, including the dam's of Frederick and Kristofer and Daniel's maternal half-sister. We think he will improve their strength, rear openness and udder height, while not compromising on their fineness of bones, capaciousness or sturdiness of frame. Luther has a front thurl position, and he is remarkably well put together structurally, especially for a bull that doesn't have a "6" in his first three numbers.

Luther shares a dam with Lester (see pg. 17). What he got from his sire in this cross is strength on an already strong dam. Jacob's sire is a son of the foundation bull of Holt Creek Jerseys, chosen for his sloping rump, smaller frame size (than the larger Jerseys of his day) and A2A2 milk proteins. The Balladeer is line-bred to Williams Minstrel, a New Zealand son of Van Der Fits Fjord, who remains NZ's most popular (counted by daughters born) bull of all time. Fjord is a bull that we line-breed whenever we can, and we especially like crossing his line-bred descendants on line-bred Landy descendants, and the cross produces consistently excellent cattle. Luther represents the quality of that cross.

His dam's maternal line is long-living, healthy and pleasant cows to have in the barn. Her dam is still milking at 13 years old, and had a calf every year until she was 12 years old, on perennial grass only, with no supplementation other than mineral. Her granddam was also a long-living, productive and fertile cow. Luther's dam produced 6.6% butterfat and 4.1% protein in her first lactation. (We do not have good DHIA records for her after that because she was an incredibly attentive nurse cow.)

We elected to not send Luther to Canada last year with a load of bulls because we wanted to see how his temperament developed. We test our bulls' dispositions by putting them alone and seeing how well they handle being away from their peers, and Luther was a bit nervous about that last year, but as he's matured, his temperament has mellowed and he is now indistinguishable from his herd mates in that respect. We ask a lot of our bulls in terms of disposition – we want them to be confident but never challenge us, okay with being worked with a group or by themselves. Luther passed the test, and he will breed a 300-cow grass-fed herd in in Ontario in 2021-2022. We thought his granddam, Pearl, would smile at that news. She was indeed beloved, and one of the sweetest cows we've ever known. We are hoping that her sweetness overrides Luther's dam's intensity and overprotectiveness of her young.



ISNZ WILLIAMS MINSTREL JENZL00000300011	THE BALLADEER OF HOLT CREEK JEUSA000115942880	
HOLT CREEK BAXTER BITSY 221 JEUSA000115021866		BETHEL BALLADEER JACOB {4} JEUSA000173149689
MANDATE LUCKY L BIG JOHN JEUSA000114280497	HEL BELOVED MANDATE PEARL {3} JEUSA000173149670	
FLIGHT LUCKY L JOSE {2} JEUSA000113923331		REVERENCE JACOB LUTHER {5}-P JEUSA000173734579
FAIRWAY TOPKICK DEACON-P JEUSA000112643858	ISNZ ARDACHIE LUCA-P JENZL000000310710	
NZL ARDACHIE FJORD LUNA JENZL000000000084		HOLTERHOLM LUCA LESLIE-P JEUSA000118487494
EICHHORNIA CRASSIPES DOCORBULF-P JEUSA000110490977	HOLTERHOLM DCBF LINORE-P JEUSA000115985274	
HOLTERHOLM AUSTIN LINETTE-P JFLISA000114567107		

Frederick-PP

Reverence Lou Frederick-PP

born: May 2019

aAa: 126-435 • A2A2 AB/AB

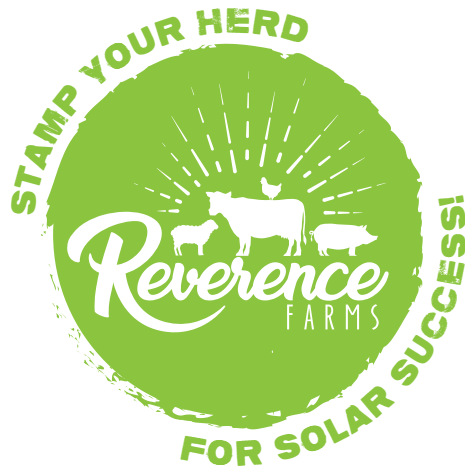
Frederick was the earliest maturing bull in his class, and he holds a lot of promise. His dam, Fallen, is our only living Beledene Dukes Landy daughter. Her dam was a Lieutenant daughter, and Frederick's sire is also a Lieutenant son (and Lieutenant also brings a strong dose of Landy, making this bull deeply line-bred to Landy).

We are most excited about him for the combination of dairy traits, udder elasticity and height, as well as structural soundness and form, while also being homozygous polled. We are using him on strong, well-sprung cows that could use more milk volume and better udders. He likely won't add strength, udder width nor spring of ribs, but the significant influence of Landy in his pedigree and the overall roundness of his dam means that he likely won't detract from those traits, either.

His dam is one of our lowest-count cows (consistently under 100k). Frederick's sire comes out of a cow family of longevity, with his sire's dam still going at 13 years old and his granddam living until she was 17 years old. In her first lactation, Frederick's dam produced almost 7k of milk at 5.5% fat and 3.6% protein, on perennial pastures with no supplementation, calving in at 23 months old. (Because we milk-share with the calves, we do not have accurate DHIA data for subsequent lactations, but she is one of our milkier cows, and also one of the smallest.)



JPR SUNARCHUS-P			
JEUSA000111282511	HOLTERHOLM LIEUTENANT-P		
HOLTERHOLM LANDY LILA	JEUSA000115436314		
JEUSA000113846919		HOLTERHOLM LOU-P	
BUBBA OF REBER-PP		JEUSA000172618410	
JEUSA000112733908	HOLTERHOLM BUBBA MARILOU {6}-P		
MAY-MAR CRW MARYLOU 53 {5}-P	JEUSA000114958648		
JEUSA000110572817			REVERENCE LOU FREDERICK-P
NZL LAMORNA ROZ DUKE			JEUSA000174024554
JENZL000000064647	ISNZ BELEDENE DUKES LANDY		
NZL BELEDENE NOBLE LYDIA	JENZL000000302702		
JENZLBHKJ19850083		HOLTERHOLM LANDY FALLEN-P	
HOLTERHOLM LIEUTENANT-P		JEUSA000118487748	
JEUSA000115436314	HOLTERHOLM LT. FALLON-P		
HOLTERHOLM LUKE FANTASIA-P	JEUSA000117124707		
JEUSA000114958509			



Suzanne Nelson Karreman & Hubert Karreman, V.M.D.
Reverence Farms, Saxapahaw, NC
336.525.6743 • grazingjerseys@gmail.com