This factsheet features four producers – two award-winning graziers and two hay experts – who are all highly successful at growing forage. Their stories can provide food for thought, or maybe even some ideas for your own operation.

More than a Quarter Century of Rotational Grazing

They started in 1978, and that makes Hugh and Robert Blair two of the most experienced rotational graziers in Manitoba. Along the way, they helped found the Benchland Forage Group, the oldest grazing organization in the province. They also developed a pumping system that uses heat from the earth to help water animals on pasture in the winter. The Blairs also received the 2002 TESA (The Environmental Stewardship Award) from the Manitoba Cattle Producers Association for their work in riparian protection and are now active grazing mentors in the Manitoba Sustainable Grazing Mentorship Program.

Hugh and Robert run a 400 pair cow-calf operation, with approximately 3,300 acres of tame and native forage, eight miles east of Gladstone on the Whitemud River. They have a total of five pastures, all divided into paddocks.

The biggest piece of advice Hugh can offer on rotational grazing is “don’t over-graze!” In a normal year, the Blairs keep the cattle from grazing until June 1, then put them on each paddock for about 11 days per paddock. The second time, they leave them on each paddock for about twice as long.

The science of this “twice-over” grazing is to use 25 per cent of the plant the first time, ensuring the seed head is grazed off to facilitate tillering and thickening. The second round of grazing should use 50 per cent of the plant, and it facilitates even more thickening. It’s something Hugh and Robert learned from a New Zealand grazing expert, and it really works, they say.

But the real art of grazing requires something more.

“The secret is to watch the plant,” says Hugh. “You must always be aware of the plant growth and also of the species.”

Their pastures are so lush that in times of bad drought, the Blairs have run out of water for their cattle before they ever run out of grass.

Using stockpiled forage from their lush pastures, they are able to extend the grazing season significantly. Using stockpiled alfalfa, they have another trademark practice that serves them well. The brothers wait until the plants wilt after the first frost, an indication they are dormant, and then they use the top growth – either by letting the cattle graze or by cutting it and feeding from the swath. Because the plants are dormant, they are not damaged.

The Blairs also use Golden German millet for swath grazing, and later on, they move hay and silage out to pasture. Depending on conditions, the Blairs are often able to keep the herd on pasture until mid-January.

TESA Award

The Blairs’ TESA award can be contributed to the water hemlock that was growing along the Whitemud River.

“I remember my father telling us that this was dangerous,” Hugh says. “It’s very poisonous – even a small amount can kill a large cow.”

To protect their cattle, the Blairs began to fence off small sections of the Whitemud so the herd didn’t have access to the river. They did a little more each year, mostly at their own expense, but a few times with funding from the Benchland Forage Group.

They liked the ecological improvements that began to occur along the protected banks, and they were relieved their cattle were safe, so they continued fencing. Eventually, they fenced all of their land adjacent to Squirrel and Pine creeks, too.
Self-Taught Alfalfa Hay Producers Find Success

The year that Murray and Clark Combs sowed their first alfalfa crop, they sold it to a trucker who was heading south – right on the spot the day it was baled. That was 1988, and they have never looked back. Along the way they’ve had some bumps in the road, but their self-taught efforts have, by and large, been very successful.

“Diversification was the big thing then,” says Murray. “We tried it and we liked it.”

The Combs brothers, who farm north of Deloraine, liked it so much that over the years they went from growing all grains to an operation that currently includes 900 acres of grain, 1,000 acres of alfalfa (either their own or custom baled) and 450 acres of grass hay.

They export the top 70 per cent of their alfalfa crop and use the remaining lower quality in their cow-calf operation (100 cows). Three hundred acres of grass hay, which was for the PMU market, will go into cereals for a few years and then into alfalfa. The remaining grass hay is still produced for the PMU market.

Murray and Clark took the plunge into forages because they wanted to maintain their acreage and their revenue. They used to have to increase their grain acreage for the PMU market. If Manitoba would grow more hay, its reputation would grow, Murray says. “But they know us and they know we produce a good product, and they know it’s worth it.”

First in Their Area

They have named the marketing arm of their operation Frontier Forage Services Ltd., and the name is fitting because Murray and Clark were the first producers in their area to get into the forage business. Even though they’ve experienced excellent success, Murray is quick to point out that they have made mistakes along the way because there was no one to learn from.

“We’ve learned some difficult lessons – including patience to let the crop dry sufficiently for maximum quality,” he says. “Also, in the beginning, we experienced losses because we didn’t protect the hay from the weather.”

Another thing they learned, says Murray, is to develop a market before undertaking any expansion because the shelf life of the product (alfalfa hay) is not as long as grain.

Murray and Clark made that transition, and made it well. Murray is optimistic about the future of forage production in Manitoba, but he feels that Manitoba hay producers must look past the US to sell their product. With the realities of bioterrorism regulations and protectionism, he is uneasy about relying too heavily on one market.

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Murray and Clark made that transition, and made it well. Now, other producers in the area are getting into the hay business based on their example. Murray is pleased with the fact that they have met many hay producers since they got into the business, “good people,” many of whom have become good friends. He is also proud of contacts they have made in the US dairy industry, people who trust them and their product.

“It takes a great leap of faith on their part to pay almost double for Canadian hay because of the freight cost,” he says. “But they know us and they know we produce a good product, and they know it’s worth it.”
Glenn Chychota used to run two feeder barns (4,200 head) with 1,300 acres of cereals – but that was before he put in a field of timothy for export back in 1995.

Now, he still runs two feeder barns, but he also operates Chychota Hay Farm, near Sifton, MB an enterprise with no cereals to speak of, but 880 acres of timothy (including rented land) and a planned 145 acres of other forages. His customers include local hay producers, as well as hay marketers from around the province.

Almost all of Glenn's timothy crop goes to the export market, but anything that is lower in quality is sold to the domestic market or used in his own 50-head cow-calf operation. He has also recently added a second baler to his operation, and is doing custom baling for processing plant customers and others.

Initially, Glenn saw timothy as a way to use the manure his operation was producing, but he quickly saw the advantages of producing hay. Prices were good for export timothy, and the only equipment he needed to invest in was a baler. On the other hand, his equipment for cereal production was aging, and he was looking at having to replace it.

Economics were such that if he wanted to stay in cereals, he would have had to buy more land, too, to get the same amount of money out of his operation.

“I could pursue hay with the same acreage as cereals,” he says, and sold his combine, his air seeder and some grain land, to boot. He has never regretted it because he has found the right fit.

The manure Glenn applies has a lot to do with growing an export-quality crop. He fall applies it at rates that give him 70 to 80 pounds of nitrogen per acre, and the difference over fields without manure applications is remarkable. The hay “has a good jump” in spring and yields are better – up to one tonne per acre more, he says.

But timothy production has its share of headaches, too. The weather, of course, can prevent the hay from adequately drying down for processing, although the plant has dryers to help address this problem. Quack grass, (a restricted contaminant in the Japanese Market) has been a big problem in older fields, and Glenn has found he must rotate the timothy out to control it. He had to put a number of timothy fields into cereals for a few years, but there is no question that he will re-seed back to hay.

“[H]I wouldn’t go back into grain farming,” he says. “If the Japanese market disappears, we’ll have to find another one.”
Grazier of the Year Shares Tips

Why was Wayne Gardiner named the Manitoba Grazing School’s 2003 Grazier of the year? It wasn’t just his extended grazing season, but also his exceptionally healthy pastures and his environmental stewardship that clinched the award for him. Wayne farms at Lakeland, north of Portage la Prairie.

To start with, Wayne has extended his grazing season so that his 375 (approximately) cow-calf pairs can graze long into the fall. He first uses stockpiled forage he has set aside for this purpose—a tall fescue, alfalfa and meadow brome mix. The fescue holds its feed value well in the fall, he says, and it can also be grazed in early July and still produces excellent re-growth.

Tall fescue is also very palatable after frost, and cows will eat through the snow to get to it, Wayne adds. By the time the snow gets heavy, the calves are gone and the cows manage quite well.

From fall grazing, Wayne keeps the herd on pasture by using swath grazing until Christmas. He has had excellent results with oats, barley and Golden German millet. He sometimes uses standing Canamaize if feed costs are low. If they are high, he will put the Canamaize into silage to prevent waste.

In January, Wayne feeds corn or hay silage right on pasture, and keeps the herd out until February. They come in for calving until early April, and then he returns them back to pasture for more silage until the spring growth comes in.

Because he depends so heavily on his pastures for many months of the year, Wayne is very particular about preserving them. For this reason, he uses rotational grazing on 90 per cent of them.

“That’s what keeps them so healthy,” he says. “Some of these pastures are 18 to 19 years old and still going strong.”

Wayne has three pastures of tame forage with six or eight paddocks per pasture. He grazes each paddock for no more than a week and allows a 35-day rest period after grazing. His largest pasture, a rented eight quarters, is all native grasses and he practices the same rotation.

He says it doesn’t pay to fertilize the native pastures, but that fertilizing the others every two to three years is a must to improve longevity. Phosphate is the most important nutrient, which Wayne applies at a rate of 30 pounds per acre, but he also applies potash at 30 pounds per acre and sulphur at 10 pounds per acre.

Because his herd is constantly on the move, manure is spread around his entire land base. Manure build-up is kept to a minimum in the yard and the corrals, because animals are only there for two months. And that’s where the environmental stewardship comes in.

“If you move cows, you move nutrients,” says Wayne. “You give wildlife a chance, too.”

You Can Help Reduce Greenhouse Gas

Feeding animals more high-quality forage can help reduce their production of methane gas, one of the components of greenhouse gas. In addition, healthy pastures and crops can help sequester (absorb) carbon, another component of greenhouse gas. For more information on greenhouse gas, and how livestock producers can do their part to help reduce it, visit the following two websites.

- Canadian Cattleman’s Association: www.cattle.ca
- Greenhouse Gas Mitigation Program: www.agr.gc.ca/progser/ghgm_e.html

For More Information

- Your local Manitoba Agriculture, Food and Rural Initiatives Growing Opportunities Centre.
- Manitoba Agriculture, Food and Rural Initiatives website: www.manitoba.ca/ agriculture.
- Forage Beef website: www.foragebeef.ca
- A forage and beef production website that contains information gathered from Manitoba, Alberta and Saskatchewan.
- Manitoba Forage Council website: www.mbforagecouncil.mb.ca

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