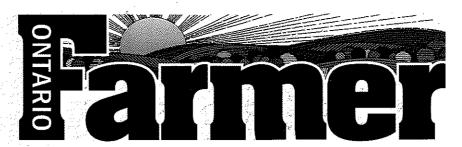


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Switchgrass supply falling short of growing demand

Markets are rapidly developing for the crop as livestock bedding, ginseng cover, as well as feed



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The switchgrass industry, after years of fits and starts, has taken root. There's currently more demand than what can be supplied by the 1,000-plus acres currently in production in Ontario.

There's also more than one market.

Dairy farmers are buying switchgrass for bedding and feed and there are a number of other bedding markets. Now two US companies involved with erosion control systems are offering contacts at a premium to what growers have been paid for switchgrass at the farmgate in recent months, according to a member of the Ontario Biomass Growers Co-operative.

per pound. That's been the standard for quite a while," Don Nott said.

companies out of the United ding product. States have made us offers of now."



Thanks to switchgrass innovators like Urs Eggiman, Don Nott and Roger Sampson, the guesswork has been taken out of establishing the warm season crop.

members with a decision to make. Sales to the US are an attractive option but to move all der would leave Canadian cusshort term.

These include several dairy farmers along with other live-"Now there's a market that stock producers and horse has developed over the last owners who've been using couple months ... A couple switchgrass as a premium bed-

One of the more interesting nine cents per pound ... We applications is bedding on top could probably use another of rubber cow comfort mats. 3,000 to 4,000 acres right Ground and passed through quarter-inch screen, switch-

It's a good position to be in grass is said to be superior to but it's left the co-operative's either wood chips or straw. It happier." tends to stay in place, rather than being pushed aside as cows get up and down and the production south of the bor- move about, and while absorbent, also has the quality of "Seven-and-a-quarter cents tomers out of the picture for the being able to release the moisture it accumulates.

> Thomas Murray of Murray Farm and Kees Van Esveld of Kesi Farm are both pleased with the product, having used it for several months. They're featured in a video on the cooperative's website.

"We change our bedding two weighed in. times a day and we put about two inches of organic matter on at the University of Guelph has top the mat," Murray said, speaking from his dairy barn near Seaforth.

"If we had a straw in here, this mat would be bare and the rubber ... There's more of a potential of abrasion on the want to keep that covered. They're spending that time 16 mulching applications. to 18 hours a day on that mat just ruminating, producing of new markets, there has been

Esveld, near Clinton, pointed to the hock of one of his cows in the video, showing how the hair was almost entirely grown

"Because it is soft, it's better for the cows," he said. "It's the combination of the mats switchgrass."

Marlene Paibomesai, dairy specialist with the Ontario Ministry of Agriculture, Food

"Preliminary research done shown that switchgrass has less incidence of mastitis compared to wheat straw bedding," she

Other bedding markets cows would be rubbing on that include dairy pack barns, group sow housing and poultry. Switchgrass also is being used skin. You're going to have successfully as a source of hock and leg issues ... So, we roughage in total-mixed-ration (TMR) feed formulations and They're more comfortable. for a range of agricultural

Along with the development

milk. They're happier. I'm improvements in the crop itself.

The erosion control market in the US relates to switchgrass's superior characteristics to wheat straw.

One company, Diamond Sock, is using the warm season grass for its SwitchSock product. Diamond Sock began with a single manufacturing locawith the softness of the tion in Pennsylvania but has since expanded in Pennsylvania and to Ohio and Connecti-

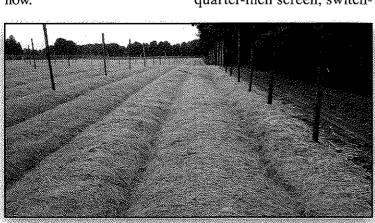
Growers like Nott, and and Rural Affairs, also James Fisher, president of the biomass co-operative, now have access to improved switchgrass cultivars developed by Montreal-based

> Resource Efficient Agricultural Production (R.E.A.P.) Canada.

> "It will be the cooperative members who have first access to the new varieties," Fisher said.

> There's up to 20 per cent increased yield potential with the new varieties and it's felt they're easier to establish.

> > See SWITCHGRASS on page 5B



Mulch for ginseng production is among the many niche markets for switchgrass.

SWITCHGRASS

• Continued from page 1

Fisher, who is in the hay business, has 150 acres of switchgrass on sloping ground that's part of the Niagara Escarpment near Burlington. Even with the older cultivars, he sees switchgrass as a profitable crop.

five metric tonnes per acre at location with a gross return of more than \$600 per acre.

"Once you get it established, you basically have no cost except the cost of harvesting it and maybe a little nitrogen. If you are in the having business like we are, you already have the equipment."

Switchgrass is usually harvested in early spring, prior to the having season. At that point 33 members of the co-operamost of the nutrients in the above-ground portion of crop have leached back to the soil.

Nott sees the crop as being part of a five to seven-year rotation. He said his son, Dan, already has experience growing corn and soybeans after a long-established stand of switchgrass.

It's a good piece of ground but well short of the best that Huron County has to offer.

Nott said his son had a sovbean yield of 52 bushel per acre and 212 bushels of corn per into which it's being sold. acre in 2016 - a dry year. While some fertilizer was provided for the corn crop, the input used for the soybeans was inoculant.

"The root mass from switch gives you organic matter and These yield around four to that gives you water-holding capacity," Nott said.

> "Another big benefit of switchgrass is that it revitalizes the land and if you keep it down for five or six year you create a clean field with less disease and weed seeds."

Nott feels the positive impact on cash crops from having switchgrass in the rotation should last several years.

Fisher and Nott are among tive and are both ramping up their production.

That's going to take time. During the establishment year, there's no harvest. A small harvest may be available in the year, production should have reached or be close to the full directions. yield potential.

New growers entering the inginto its own," Sampson said. industry have an advantage. agronomics of producing switchgrass and the markets

That's due in part to the able growth strategy." efforts of the cooperative. which was established in 2009. but others have been involved, including specialists with the Ontario Ministry of Agriculture, Food and Rural Affairs and Roger Sampson with R.E.A.P.

Sampson has been a proponent of the crop, and other biomass species, for years.

He said his switchgrass journey began with research paper concerning warm season grasses when he was a student red meat output also moved at the University of Guelph in into record territory in 1983. Three years later February. R.E.A.P. Canada was launched but the organization's focus on switchgrass and other biomass crops only began in 1991.

The early interest for the purpose-grown biomass crop 2017. revolved around the production of energy, a renewable alternative to fossil fuels. That potensecond year and, by the third tial remains, but the evolution of the crop has taken it in new

"There's no reason we Far more is known about the couldn't be at 10,000 to 30,000 acres in Ontario in five to 10 years ... It's been a long haul and I think we have a sustain-

Finding the right markets has been a challenge along with learning how to establish and harvest the crop. For new entrants into the industry, it's become a lot easier.

Sampson is the author or coauthor of a number of publications detailing production

methods and how the crop can be used for a wide range of mulching and bedding applications.

Using Switchgrass and Miscanthus as Sustainable Livestock and Poultry Bedding and Using Switchgrass and Miscanthus in Mulching Applications were just recently released.

Switchgrass has also taken root in Quebec where markets have been developed in the dairy industry, poultry industry, as strawberry mulch and for other niche markets.

Pork drives record U.S. red meat month

riven by record-high pork production, overall U.S.

According to the latest USDA report, total red meat production amounted to 4.06 billion pounds in February, up three per cent from February

record numbers for the month at 2.06 billion pounds, four per cent higher than the year before. The increase was due mainly to a three per cent rise "I think switchgrass is com- in hogs going for slaughter.

Beef production was three per cent higher than the previous year at 1.98 billion pounds, with cattle slaughter trending two per cent higher.

Veal production also rose by three per cent to 5.8 million pounds, while lamb and mutton production increased five per cent to 11.8 million pounds.

Through the first two months Pork production reached of 2018. U.S. red meat output sits at 8.65 billion pounds, five per cent higher than in 2017. Beef and pork production are up five per cent, while veal and lamb and mutton are four per cent higher.