



New Brunswick Soil & Crop Newsletter



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Editor: Zoshia Fraser

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2021 NBSCIA Farm of the Year Nominees - Leigha Beckwith

2021 Central Soil & Crop Improvement Association Nominee

Scotch View Dairy

Scotch View Dairy was first acquired by the Van Brugge family in 2015. Roy's parents had recently sold their dairy in Listowel, Ontario with plans for their son to start farming in New Brunswick. Roy now farms 300 acres, of which half is leased. Roy and his girlfriend, Destiny are both on the farm full time. The farm is primarily a dairy but Roy does sell some forage to local customers. The forage mixture is mostly grass that is used for silage and hay. He also grows corn



for silage and cob meal. He chooses his corn varieties with the help of James Love. This past fall, he has also planted winter wheat to provide erosion control. In any year, about 100 acres are planted in corn which is then harvested by Greenleaf harvesting. Roy is responsible for all the day to day operations on the farm. He has an accountant that looks after all of the bookwork for the farm.

2021 Kings County Soil & Crop Improvement Association Nominee

McCrea Farms



McCrea Farms was started in the early 1820s and has been thriving ever since. Currently, the operation is managed by Bruce & Nancy Colpitts along with their son's Chandler and James. The operation is a team effort as they each have their part of the business to manage. Originally, the farm was a dairy that Lawrence McCrea started and Jim McCrea added in the beef cattle operation before Nancy and Bruce moved back from British Columbia in 2002. Chandler and James are the 8th generation on the farm. The farm is now 6000 acres with 300 acres cleared. Chandler, the animal science grad, is responsible for the dairy, both the milk cows and the replacement heifers, ensuring they are fed and going through the Lely robot. Bruce is responsible for maintaining the beef cattle operation as well as working in the woods with James. James studied plant science at Dal AC, so naturally, his niche is crop management. Nancy has many hats on the farm but she enjoys looking after the fish hatchery and doing the accounting work. During the early spring, it is all hands on deck working in the 2000 tap sugar bush.

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2021 NBSCIA Farm of the Year Nominees Continued

2021 North West Soil and Crop Improvement Association Nominee

Ferme Floray

Ferme Floray in St. Quentin has been in the Lamarche family since 1979. The farm started as a dairy operation and continued as one until 2006 when Joel, a third-generation farmer, came back to farm with his dad, Florent. On the farm they have one Full-time employee, Roger, Florent's brother and Marie- Pier, Joel's wife looks after the bookkeeping. The farm consists of about 1300 cleared acres that are either owned or leased. In a typical year, the crop acreage is this: Barley 500 acres, Oats 300 acres, wheat 180 acres, canola 250 acres, some soybeans for fun and the rest of the land is in timothy hay. The grain is dried on site when needed and stored until the buyer is ready. In the future, they are looking at installing a Top Dry System from GSI for drying their grains. Joel has been playing with no-tilling winter wheat for the past couple of years and is seeing great things. A large part of the winter months for Joel is looking after his 8000 taps in the sugar bush. The tap and line system is fully automated. Joel is notified quickly if there is a problem to avoid sap losses.



2021 Chignecto Soil and Crop Improvement Association Nominee

Davanna Holdings Ltd.

Davanna Holdings has been in the Acton family for many years. In the early days, Reg Acton owned the operation with his son's, David and Robert, Dean's father and uncle. In September of 1987, David and Anna took over the operation, known now as Davanna Holdings. In 89, Dean returned to the farm full time. Since then, the farm has continued to grow to about 1100 acres, 300 cleared and 800 acres of woodland and they lease 550 acres. The primary focus on the farm is the beef cattle. The custom cattle growing business has expanded in the last 2 years with the addition of a new barn which will allow for a maximum capacity of 1350 head in their 1000 feet of barn. Davanna Holding's relies on high quality forage to grow their animals at a rate of 2.0-2.3 lbs per day. Their fields are mostly planted in a fescue, clover mix with some orchard grass and the occasional field of alfalfa. Dean has had great success with frost seeding over struggling stands with clover. Corn silage is also part of the ration and is grown in Rogersville. To complete the ration a mix of brewers grain and bread by-products are used.

2021 Moncton Soil and Crop Improvement Association Nominee

New Steffeshof Farms

David and Lidy Scheele started farming together when they moved from Holland to Germany in 1986. In Germany, they had a beef herd before selling and moving to New Brunswick in 2000. The couple first started their seed potato operation in St. Louis before buying property and a house in Galloway. They now dabble into a little bit of everything while maintaining the seed potato operation. They grow 5.5 acres of sweet corn, carrots, beets, cucumber, onions and tomatoes along with 13 acres of Strawberries and Haskap berries. They also grow cereals to complete their rotation. This year they grew lupins and black beans. Their farm consists of 300 acres of cleared land and 20 in woodland. They lease an additional 400 acres. The seed potato operation is mainly for export. The potato variety depends on what country is importing the seed but they export to Uruguay and the Philippines.



Message from the General Manager - Ray Carmichael

COVID with the Omicron variant and the ever evolving and changing Public Health guidelines make work scheduling and planning for meetings very interesting. Even with these challenges, NBSCIA Coordinators managed to support members with EFP, NMP and successfully complete all of our Canadian Agricultural Partnership and third party projects for the 2021 season. In support of this work NBSCIA coordinators collected and shipped upwards of 750 soil samples to the PEI Analytical Laboratory. Reports for the Industrial Hemp and Apple Growth and Integrated Pest Management are completed and can be provided on request. Summaries of the cereal trials are in the Research Coordinators report. Results for the other projects are pending and summary reports will be available throughout January. I would like to thank the NB Coordinators, our summer students and Stephen Clain for the excellent work in all they do to make these projects a success.

Pioneer continued their longstanding support of the NBSCIA Farmer of the Year for 2021 and given the break in Public Health guidance, we were able to get the job done. Thanks to our judges Leigha Beckwith, Walter Brown, Dave Walker and of course Zoshia for all the coordination. Hopefully and with luck, we will be able to celebrate the winner at the AGM in February. I recognize that virtual meetings save valuable time and expense for all stakeholders, BUT we still need the “face to face” opportunities to exchange ideas and question guest speakers. Preliminary details for the Annual Meeting will be outlined elsewhere in this newsletter.

By now most of you have probably heard something about the Government of Canada’s \$4 billion Natural Climate Solutions Fund being delivered by Natural Resources Canada (NRCan) and Environment and Climate Change Canada (ECCC) to develop projects that invest in natural climate solutions, including NRCan's 2 Billion Trees program and ECCC's Nature Smart Climate Solutions Fund. These solutions will contribute to meeting Canada's greenhouse gas reduction targets (the Paris Accord) and provide benefits towards the well-being of all Canadians.

Agriculture and Agri-Food Canada (AAFC) is the delivery partner for the Agricultural Climate Solutions program from the Natural Climate Solutions Fund as well as a third program Agricultural Clean Technology. All three of these programs will potentially have a direct impact on all farmers as well as NBSCIA operations.

Agricultural Climate Solutions

This program has two funding streams, Living Labs and On-Farm Climate Action Fund (OFCAF)

Living Labs

Through these living labs, regional leaders will bring together farmers, scientists, and other sector partners to co-develop, test and monitor beneficial management practices on working farms to reduce Canada's environmental footprint and enhance climate resiliency.

Living Labs priority areas:

1. Carbon sequestration (for example, cover crops, intercropping, conversion of marginal land to permanent cover, shelterbelts, inclusion of pulses in rotations)
2. Greenhouse gas mitigation (for example, nutrient management, feeding strategies)

In addition, projects should indicate if they could support the achievement of other relevant socio-economic and environmental benefits, such as:

- improving soil health and water quality
- water conservation
- increasing biodiversity
- maximizing habitat capacity



Continued on Page 4

Message from the General Manager Continued

Funding for this program approaches \$1,000,000 per year for New Brunswick. The New Brunswick Agriculture Alliance is the lead sponsor of this project and NBSCIA is an active partner in the planning and will be involved in the delivery. Final approval and details are not expected until March –April of 2022. There will be opportunities

On-Farm Climate Action Fund

The objective of the On-Farm Climate Action Fund (OFCAF) program has allotted \$20 million to the Atlantic Region over the three funding years from 2021 to 2024 that will support farmers in adopting beneficial management practices (BMPs) that store carbon and reduce greenhouse gases in three areas:

- nitrogen management
- cover cropping
- rotational grazing practices

These practices also provide other environmental benefits such as improved biodiversity and soil health.

Other activities to support the adoption of beneficial management practices will be considered, such as outreach, education and training.

NBSCIA has an application into Agriculture Canada for consideration as the On-Farm Climate Action Fund delivery partner for New Brunswick to redistribute the funds to farmers to support the adoption of best management practices in the three areas. Other agencies have also applied to deliver in NB. A decision is expected in January 2022

Agricultural Clean Technology Program

The Agricultural Clean Technology Program will support the purchase and installation of commercially available clean technologies and processes with a priority given to those that show evidence of reducing greenhouse gas (GHG) emissions, and other environmental co-benefits.

Eligible activities under the Adoption Stream are of the following nature and type:

1. Green energy and energy efficiency
2. Precision agriculture
3. Bioeconomy solutions

Note: funding will be specifically allocated towards projects under the priority of green energy and energy efficiency, involving the purchase of more efficient grain dryers and fuel switching initiatives.

Support is available in the form of non-repayable contributions from Agriculture and Agri-Food Canada.

Cost-sharing:

Adoption Stream (For-profit)

A maximum contribution of 50% from the program

A minimum contribution of 50% from the applicant

Adoption Stream (Not-for-profit)

A maximum contribution of 75% from the program

A minimum contribution of 25% from the applicant

Contributions under the Adoption Stream will be non-repayable.

Funding by project:

The Adoption Stream will focus its support on projects valued at \$50,000 or more of total eligible project costs. The maximum amount payable to a recipient will generally not exceed \$2 million per project.

Applications to the Agricultural Clean Technology program are made on an individual basis. Currently, this program is oversubscribed for the fiscal year ending March 31, 2022. But that does not mean that if you are interested you should not bother applying for future funding, To date, NBSCIA coordinators have assisted four members with applications to this program. Please reach out if you are interested in applying.

Seasons Greetings and all the Best to You and Your Family,

Ray Carmichael



NBSCIA Research Update

NBSCIA Research Directors Report - Dave Walker

NBSCIA had another successful year undertaking research projects with a number of partners including the NB Department of Agriculture Aquaculture and Fisheries, the Atlantic Grains Council, PhytoGene Resources, Plant Medic Inc. and the Center for Grain Research (CÉROM). Funding was received from the Canadian Agriculture Partnership program (CAP) under the EARI sub program. NBSCIA coordinated the Maritime Cereal Performance Trials with NBDAAF and the Atlantic Grains Council at Hartland and Centreville. The trials included evaluating many lines of spring, barley, wheat and triticale, oats and winter wheat and rye. Results from these trials are included in the Maritime Cereal Cultivar Performance List. The lists compare the yield and agronomic traits for the most adapted spring and winter cereals for the region. Farmers growing small grains in NB are advised to review the data from the performance lists prior to purchasing seed. Performance lists are available on the NBSCIA website.

Corn performance trials for both silage and grain were planted in Hartland and Sussex this year. Attached below (Page 6&7) for your convenience are the performance lists for both grain corn and corn silage. These lists are an unbiased measure of performance for both grain and silage hybrids for the Maritime region. Corn producers are advised to review the data to see how corn hybrids perform/compare.

Thanks to Peter Scott and Jason Wells and their crew of Anthony Smith and Steve Clain for conducting the trials, and Daniel Savoie for assisting with translation and to NBDAAF and CAP for funding.

Additional research Reports will be posted on the NBSCIA website. when they become available.



PhytoGene Resources Inc. Oat Trial - A.R. McElroy

PhytoGene Resources has been conducting oat trials in Carleton County since 2017, in collaboration with the NBSCIA. Each year, NBSCIA plants, maintains and harvests between 4- to 500 plots, and PhytoGene conducts the post-harvest cleaning and evaluation. The objective is to identify lines which combine high yield potential in this area with good agronomic and quality characteristics, and then advance the best ones to the Maritime Registration Trials to obtain registration support.

Local screening before regional testing appears to be effective. Two lines identified in the 2019 and 2020 trials were advanced to Maritime testing in 2021. PGR21-253 placed first overall in Hartland and at the three Maritime sites, yielding 12% more than the checks, and has good quality and lodging resistance. The other placed second for yield at Hartland, at 8% above the checks.

PGR20-054 had the highest 2020-2021 mean yield in the Maritime Registration trials, with 11% over the mean of the checks. A second line, PGR20-479 is close behind. Eighteen elite lines identified in the 2020 PGR trials were tested again in Centreville in 2021 and the best of these will be advanced to the Maritime Registration trials in 2022.

PhytoGene Resources gratefully acknowledges the collaboration with the NBSCIA, Carleton County, in this project.



2022 CORN GUIDE for the Maritimes Provinces GUIDE DU MAÏS 2022 pour les Maritimes

**Table / Tableau 1: Maritime Grain Corn Hybrid Performance List /
Performance des hybrides de maïs-grain aux Maritimes**
(hybrids listed below have minimum of 2 years testing) /
(les hybrides mentionnés ont un minimum de 2 ans d'évaluation)

Production Zones / Zones de production	Hybrids / Hybrides	Refuge ⁽¹⁾	Special Traits ⁽²⁾ / Traits Spéciaux ⁽²⁾	Yield @15.5% Moisture / Rendement à 15.5% d'humidité (t/ha)	Grain Moisture Content / Humidité (%)	Stalk Break / Tiges brisées (%)	Sites Years / Stations années
1+2+3+4	A3993G2 RIB (PRIDE)	RIB	VT2/RR	8.61	23.6	3.2	15
1+2+3+4	A4323G2 RIB (PRIDE)	RIB	VT2/RR	8.99	25.1	4.9	10
1+2+3+4	E44H12 R (MAIZEX)	RIB	VT2/RR	8.95	25.6	3.7	15
1+2+3+4	DKC 26-40RIB (BAYER C.S.)	RIB	VT2/RR	9.15	26.1	3.3	15
1+2+3	P7955AM (CORTEVA)	AM	AM/LL/RR2	9.54	26.3	5.9	15
1+2+3	A4646G2RIB (PRIDE)	RIB	VT2/RR	9.23	26.4	2.7	15
1+2+3	MZ 1688DBR (MAIZEX)	RIB	VT2/RR	9.70	26.8	3.0	15
1+2+3	PS 2210VT2P (PICKSEED)	RIB	VT2/RR	9.43	26.9	2.6	15
1+2	DKC 24-06RIB (BAYER C.S.)	RIB	VT2/RR	9.65	25.6	4.8	10
1+2	A4939G2 RIB (PRIDE)	RIB	VT2/RR	9.94	27.4	5.8	15
1+2	P8234AM (CORTEVA)	AM	AM/LL/RR2	9.46	27.7	4.5	15
1+2	PS 2321VT2P RIB- (PICKSEED)	RIB	VT2/RR	9.23	28.6	10.2	14
1+2	DKC 33-37RIB (BAYER C.S.)	RIB	VT2/RR	10.55	29.5	2.5	10
1+2	PS 2562VT2P RIB (PICKSEED)	RIB	VT2/RR	10.40	30.1	4.4	10
1+2	B82R52AM (CORTEVA)	AM	AM/LL/RR2	9.91	30.3	3.6	15
1+2	NK8204-3220 (SYNGENTA)	AV-EZ	AV-EZ/RR	9.60	30.3	2.6	10

(1) Refuge: NA = Not applicable where this hybrid is not Bt hybrid /
Non-applicable lorsque cet hybride est non Bt
RIB, RA, AM or/ou AV-EZ = Bt refuge compliance is in the same seed bag /
Refuge Bt est dans le même sac de semence

(2) Special Traits / Traits spéciaux:

AM = AcreMax insect protection / Protection insecte AcreMax •
VT2 = VT DoublePro insect protection / Protection insecte VT DoublePro
RR or/ou RR2 = Roundup Ready hybrid / Hybride Roundup Ready
LL = Liberty tolerant hybrid / Hybride tolérant au Liberty
AV-EZ = Agrisure Viptera insect protection / Protection insecte Agrisure Viptera
3000GT = Agrisure insect protection / Protection insecte Agrisure

Corn testing contributions in 2021 were made by Charlottetown Research and Development Centre, Agric. & Agri. Food Canada, Perennia Food and Agriculture, NBDAAF & NBSCIA (NB Soil & Crop Improvement Association)
Ont participé aux évaluations : le Centre de recherche et de développement de Charlottetown, Agriculture et agroalimentaire Canada, Perennia, le MAAPNB, l'AASCNB (Sol & cultures du N.-B.)

Available on / Disponible sur
<https://atlanticgrainscouncil.ca/crop-resources>



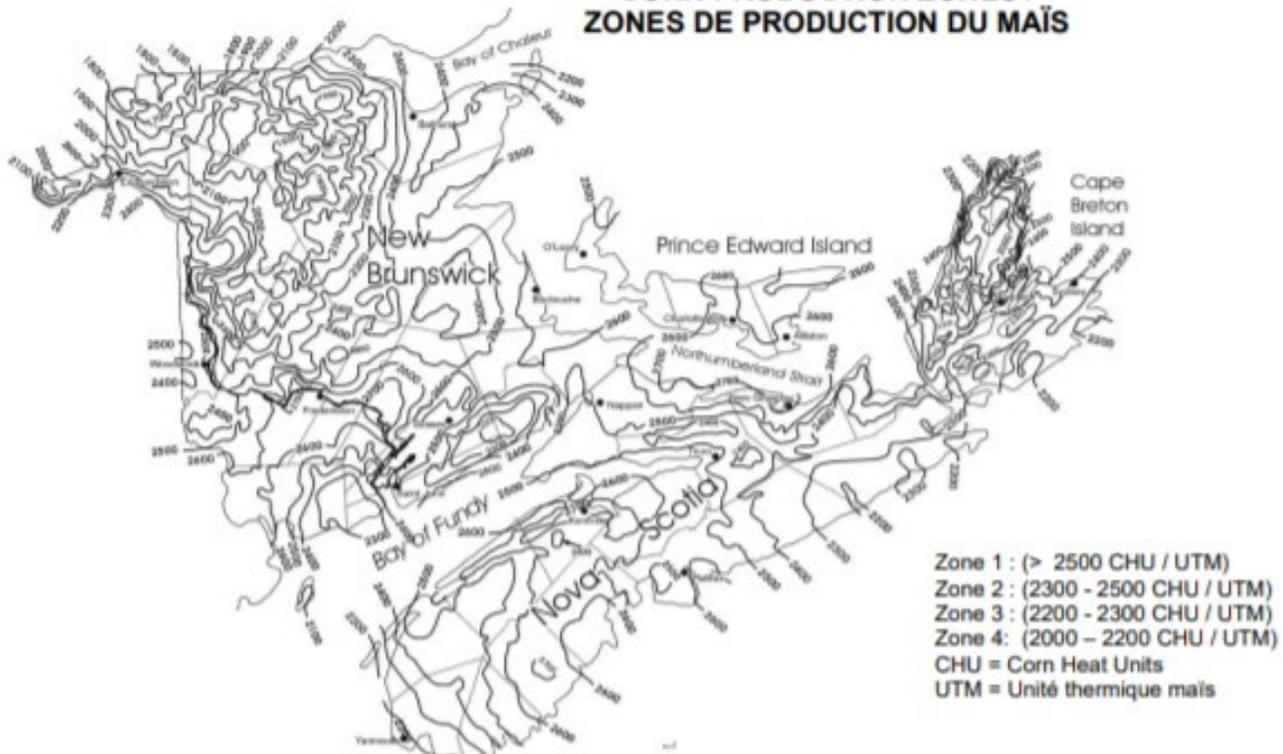
NBSCIA Research Directors Report - Dave Walker

Table / Tableau 2: Maritime Silage Corn Hybrid Performance List
Performance des hybrides de maïs-ensilage aux Maritimes
 (hybrids listed below have minimum of 2 years testing) /
 (les hybrides mentionnés ont un minimum de 2 ans d'évaluation)

Production Zones / Zones de production	Hybrids / Hybrides	Refuge ⁽¹⁾	Special Traits ⁽²⁾ / Traits Spéciaux ⁽²⁾	Total Whole-Plant Yield / Rendement (t/ha)	Whole Plant Dry Matter Content / Humidité (%)	Stalk Break / Tiges brisées (%)	Sites Years / Stations années
1+2+3+4	AS1017RR EDF (PRIDE)	NA	RR	18.06	38.0	2.1	15
1+2+3+4	MS 7420R (MAIZEX)	NA	RR2	16.19	35.7	2.0	15
1+2+3	PS 2210 VT2P RIB (PICKSEED)	RIB	VT2/RR	15.77	35.2	0.1	15
1+2+3	MS 8022R (MAIZEX)	NA	RR2	18.55	34.6	1.4	10
1+2+3	A4705HMRR (PRIDE)	RIB	VT2/RR	17.87	34.2	1.4	15
1+2	AS1027RR EDF (PRIDE)	NA	RR	19.32	36.3	1.4	15
1+2	B82R52AM (CORTEVA)	AM	AM/LL/RR2	17.1	34.9	0.6	15
1+2	MCT3223 (MASTERS CHOICE)	-	3000GT/RR	15.97	34.7	0.7	10
1+2	PS 2321VT2P (PICKSEED)	RIB	VT2/RR	16.91	34.4	1.2	15
1+2	P8234AM (CORTEVA)	AM	AM/LL/RR2	16.51	34.3	0.5	15
1+2	A4939G2 RIB (PRIDE)	RIB	VT2/RR	16.82	34.2	0.3	15

(1) et (2) : Refer to Table 1 / Se référer au Tableau 1

CORN PRODUCTION ZONES / ZONES DE PRODUCTION DU MAÏS



CÉROM Whinter Wheat Trial - Michel McElroy

Winter wheat had banner year in eastern Canada this year, with excellent survival and above average yields for producers from Ontario to the Maritimes. This also made it a great year to start a new collaboration between the NBSCIA and the Center for Grain Research (CÉROM) on winter wheat testing in western New Brunswick. For those that may not know us, the CÉROM is a non-profit research center based near Montreal that focuses on producing innovative research for the grain sector for Quebec and Canada at large. Among our many domains of expertise, we have three breeding programs dedicated to improving soybeans, and spring and winter wheat. Our primary objective in the winter program is to develop hard red varieties suitable for breadmaking, though we also evaluate varieties for the feed market.

The first year of our collaboration was chiefly to test a wide set of lines at Hartland to see how well the CÉROM's material is adapted to maritime conditions. We were pleasantly surprised to see that several of our lines did quite well, outyielding checks such as Lexington and URGC Ring by up to 11%. While many of these lines are still far from the commercialisation stage, one good performer (presently named CRGBa18.1), should be registered as a variety in 2022 and on the market a few years after that. While it does not have the qualities sufficient for bread, it boasts excellent yields in grain and straw, good survival and a superb tolerance to fusarium head blight, making it a great choice for producers in the feed market.

Finally, I would like to take the opportunity to thank the NBSCIA for their work on our trial and for inviting me to their 2021 cereals field day. It was a great opportunity to see the plots and meet with grain producers from New Brunswick to discuss your needs for wheat varieties. We have another trial in the ground for the 2022 season, and I look forward to returning soon!



Reminders

Renew your Membership for 2022

2022 membership invoices will be coming your way in January. We hope you'll all be joining us for the 2022 season!

Save the Date NBSCIA 43rd AGM Feb 24-25!

A Deep Dive into Agricultural Climate solutions in New Brunswick

Featuring an update on the Agriculture Agri-food Canada Programs and technical workshops to help you implement these best management practices on your farm!

Environmental Farm Plans

Winter is a great time to get in touch with your coordinator about updating and creating environmental farm plans. We can also get you set with a complete environmental mapping set including soil series, slope and buffer zones.

Nutrient Recommendations

Make sure you get the most from you 2021 soil samples by reaching out to your NBSCIA for balanced nutrient recommendations. Plans can range from complete three year nutrient recommendations to on season fertilizer recommendations.



Regional Updates from your NBSCIA Coordinators

North West Press—Jean-Mars Jean-François

Hot spot in the Northwest: What marked the year 2021

The agricultural campaign of the year 2021 left a taste rather pleasant in the mouths of the farmers. The early snow-melt allowed farmers to get back in the fields earlier than expected. At the beginning of the season, good weather conditions were favourable to forage in terms of quality and yield. However, the sporadic drought pushed back the second forage cut that fulfilled the expectations of dairy and cattle producers. With regard to grain, the yields are above average and the quality was there.

On the potato side, seeding was done on time. At times, the persistent fine rains delayed phytosanitary treatments.



However, fungal, viral and bacterial diseases were kept under control. The harvest, although delayed by the first autumn rains, took place without much damage, thanks to a very mild fall. Overall, the severity of COVID-19 and the local labour unavailability were once again facing a challenge. Fortunately, some farmers have made use of foreign workers. It should be noted that potato growers in southern Canada have not been so well served, meteorologically speaking.

To conclude, the northwest region has had a good season for all the commodities. The farmers openly expressed their satisfaction. Let us hope that the price of products will continue to meet the expectations of agricultural producers. The Club would like to thank all those who have contributed to the realization of its activities.

Central Review—Andrew Sytsma

I think it's safe to say that the 2021 growing season had a lot less stress and complaining about the weather than last year! Just about everyone I talked to was very happy with the yields they got, whether it was forage, grains, apples or horticultural crops. Not only did an early spring kick start plant growth, but we had a great year for corn heat unit (CHU) accumulation and rainfall. The Central region averaged approximately 3200 CHU's and 530 mm of rainfall between May 1st and October 31st. Some areas reached 3350 CHU's, which is probably one of the highest ever CHU totals for the region. To compare with last year's weather data, the region averaged 2800 CHU's and 350 mm of rain in the same time frame.

This year saw a lot of soil sampling, foliar sampling, environmental farm plan updates and equipment calibrations. We had another successful year of research work, with the Forage 4R, Alfalfa Tissue Survey, Soil Health, and Apple Growth and IPM projects all going full steam ahead. Big thanks go to our summer student Alexandra Green for helping out with fieldwork this year!

The Central club gained several new members this year. The no-till seeder was well used and although it needed repairs this fall, it will be operational and available for members to rent in 2022. The platform scales available for NBSCIA members to use for weighing equipment have been repaired and are ready for use. Reach out to your local coordinator if you're interested in using them.

I would like to thank everyone in the Central club and NBSCIA for making this a great year and I look forward to seeing what the new year brings!

Merry Christmas and Happy New Year!

—Andrew



Kings County Happenings—Joseph Graham

Kings County has been keeping busy with fall soil sampling, mapping, and project work. Some of the project work included; Grid sampling, alfalfa tissue testing, soil health, apple IPM, weather mapping and maintaining the forage plots. The season was exceptional in terms of weather and I highly recommend checking out the weather maps available on our website. The past three years have all been very unique. The forage trial plots were once again a major success. The plots are in their second year at the Knightville site and the size of the trials nearly doubled! These trials have been harvested, the data will be collected for yearend reporting. We look forward to providing updates on all our projects once the final results come back.

Soil sampling and project work have pretty much wrapped up. We look forward to gathering and discussing the final results at our AGM. We thank all the members for once again supporting our events and navigating COVID-19 with us.



Kings Events

Despite COVID-19, we were fortunate enough to host a socially distanced forage plot tour for local farmers. The tour included a year 2 demo of the alfalfa nurse crop trials. We were also able to tour the entire site on Aug 31st. This tour was held just before our annual field day, Jason Wells lead the tour of the new trials, and stayed on hand for anyone with questions. There was a new forage soybean, alfalfa variety, and an alfalfa fertility trial on display. These were toured in addition to the emergency forage and alfalfa nurse crop trials.

Kings County continued with our yearly field day. This year's event was hosted by Giermindle's farm on Aug 31st. Green Diamond, Hall Bro's, and Millstream Agriculture were all present to demo and discuss their equipment. It turned out to be a beautiful day with equipment demos ending around 3:30 pm. Lunch was provided by Giermindle's restaurant and sponsored by the local Sussex Co-op. A big thanks goes to the Co-op for being so generous, and to Giermindles for being excellent hosts. Overall it was a great event, thanks to all the NBSCIA members who attended, and thanks go to the dealers for bringing out new equipment.

Following the Field Day, NBSCIA took part in a Corn Day hosted by Cavendish, at Walkerview Farms, on Sept 16th. This event was followed by an afternoon tour of the NBSCIA Corn trials, at Frank and Alex Jopps. The afternoon tour was a great way to be introduced to the various hybrid varieties. Industry representatives were also on hand to discuss their products. We must thank the Atlantic Grains Council for providing the evenings' refreshments. Thank you to the members that came out for either session.



Moncton/Chignecto News—Zoshia Fraser

Wow, I could swear that were just about to celebrate Christmas 2019 not 2021, where does the time go! It was a heck of a year in Moncton-Chignecto between the two clubs we have over 75 members in the region and a ten year high in membership! Thank you all for continuing to trust me to help out on your farms and I look forward to working with you all in years to come! With the optimal weather conditions this season, it was nice to hear “I don’t know where to put all this forage” instead of “I dunno what I’m going to feed the cows this winter”. And it was not just the forage crops that were stellar this season with potatoes, apples, grains and horticulture crops all having an excellent year!



We had several projects take place in the region including forage 4-R nutrient management on 2 farms, Alfalfa Tissue sample survey at 5 farms, crop optimization at four farms, Apple IPM at one farm as well as a number of weather sites and soil health sampling sites. NBSCIA also extended our partnership with the Tantramar community Pasture in Sackville. We were pleased to install grazing cages to monitor forage production throughout the season and apply treatments of both continuous and rotational grazing. Results from this study will be available in the new year! I want to extend my gratitude to Matt Beal and the pasture for allowing us to work on their pasture and the NB Cattle producers for providing us with two summer students to assist at the pasture. Both Joe and Owen were a huge help this summer and we hope to see them back in the coming years! Thanks to all the farmers who participated in our research and demonstration initiatives, without you none of this work would be possible. With all the funds coming to New Brunswick through the Agricultural Climate Solutions program I’m sure I’ll be knocking on a few more doors looking to collaborate on some exciting projects soon!



Members who subscribe to the NBSCIA agronomy service took advantage of many different services this year. The most popular service continues to be soil sampling and nutrient recommendations. The demand for this service was further increased by the new ProAction Environmental model that has been enforced on dairy farms across the country. If you are still needing help getting ready for your next audit give me a call and I’d be happy to help you prepare! I also was able to help several producers with the EFPs, yield estimates and crop scouting for pests, weed control, winter survival and maturity.

Lastly, watch your e-mails in the new year for notifications on our local AGMs. I’ve been hard at work coming up with topics for guest speakers and keeping up to date with the COVID-19 regulations. I hope with proof of vaccination that we will be able to meet face to face in the new year! Also, mark your calendars restrictions permitting the provincial AGM is back in 2022. We will be in Bathurst at the Atlantic Host February 24-25! This also means the return of Farm of the year! This year Moncton and Chignecto both put forth very strong candidates. Congratulations to Dean, Anna and David Acton of Davanna Holdings Ltd. Cookville, NB for being named 2021 Chignecto Farm of The year and to David and Lidy Scheele of New Steffeshof Farms Galloway, NB for being named 2021 Moncton Soil and Crop Farm of the year! Check out the cover story to learn more about these two farms as well as the other Farm of the Year candidates from across our province!

As always if you need anything please reach out to me!

Wishing you all a very Merry Christmas and A Happy Healthy New Year!

- Zoshia





The 2021 crop season certainly ended as one for the record books, Heat unit accumulations, rainfall and crop yield all reported record setting highs. The weather records can be compared in the maps from our NB Weather Mapping for Intensive Crop Management project on the NBSCIA website: <https://www.nbscia.ca/weather-maps/>. With few exceptions, the quality and yield for all crops set what “might” be considered a once in a lifetime record. Subject to variety and location potatoes suffered some significant loss as a result of saturated field conditions in September.

Season ending samples have been collected for the Soil Health Bench Marking-Reference and the Bio fumigant as a Control of Nematode and Virus in Potatoes and Strawberries projects. However, complete results are not yet back from the labs so reports will be available in early 2022. Data processing for the NB Crop Production Optimization project is currently underway.

As reported elsewhere in this newsletter the cooperative oat trial with NB Seed Growers and The Phytogene is providing some exciting results for NB growers. PGR20-054 had the highest 2020-2021 mean yield in the Maritime Registration trials, with 11% over the mean of the checks.

Yields from the first year of our winter trial with Cerom were exceptional as reported separately. This fall’s trial was planted on September 14, with excellent establishment and fall growth for all 19 new lines and 6 check varieties. NBSCIA hopes to continue this partnership with Cerom in the future as part of a national winter wheat breeding cluster.

The Cereal Corn seed multiplication plot suffered significant losses to birds and raccoons, however, a quantity of seed was salvaged and available for further bulking up in 2022. Cereal corn is an open pollinated line from Agriculture Canada, Ottawa Research Station, in the order of 2100 CHU, that has potential as an emergency forage crop. Given the small stature, it can be seeded in narrow rows with a regular grain drill and harvested with a regular grain head on a combine. Grain yields are potentially higher than spring wheat or barley, with typical corn feed value.



There will be a local Club meeting in early January 2022. However, the ever shifting Public Health Guidelines are complicating the planning. Recently it looked like an in-person meeting would be possible, as of this writing it now looks like a virtual meeting once again. Watch your email for updates after Christmas.

Happy Holidays

- Ray

North Shore Headlines—Nadler Simon

The North Shore agro-environmental group of the New Brunswick Soil & Crop Improvement Association (NBSCIA) still stands up with its members, by continuing to provide them with agronomy services, to end this year on a high note.

With our dynamic group of 40 active members registered for this agricultural season (24 berry fruits and 16 forage producers), representing a membership increase of about 12% with respect to last year, we achieved several goals. We have been able to: carry out at least 103 samplings (manure, soil and plant tissue), install 2 additional weather stations (Lamèque and Val-Doucet), diagnose fields from Restigouche-East to Kent-North (weeds, insects, diseases, fertilization, pollination, soil compaction, crop nutrient needs, soil pH correction, etc.), formulate appropriate recommendations to farmers, be involved in several field projects (online environmental farm plans (EFP), forage 4R nutrient stewardship, alfalfa tissue survey, soil health benchmarking-reference, SoilOptix initiative, agricultural climate solutions initiative, split fertilizer applications, rhizomes-cut machine and germination in wild blueberry production), assist with EFP action plan updates and production of field maps, share relevant information on new developments in the local agricultural industry towards a sustainable agriculture adoption.

Fields tours allowed us to observe globally a relatively better production this year; in both commodities, yields were between average to above average. The selling price of farm products was pretty good, notably for the blueberry industry.

The next provincial AGM will be held this time in our area (Bathurst) from February 24-25, 2022. Meanwhile, the organization of two separate local AGMs (berry fruits and forage meetings, respectively) for late January 2022 is now being planned (virtual or in-person meeting, meeting rooms reservation, events dates, topics to be addressed, speakers, agenda content, etc.).

Hoping everyone will stay safe, we wish you a Merry Christmas and a happy new year 2022!

- Nadler



NBSCIA 43rd Annual General Meeting and Technical Workshop

NBSCIA is thrilled to bring back our Annual General Meeting and Technical Workshop! COVID-19 Restrictions allowing we will be hosting an in-person meeting. The theme of this year's meeting is "A deep Dive into Agriculture Climate Solutions in New Brunswick." The 2-day program hopes to shed light on Agriculture and Agri-Food Canada's (AAFC) Agricultural Climate Solutions program from the Natural Climate Solutions Fund as well as Agricultural Clean Technology.

When: February 24 - 25, 2022

Where: Atlantic Host, Bathurst, NB

Please be advised to attend this event in-person proof of vaccination will be required

Registration: Two-Day Workshop in-person: Member \$100, Non-member \$120

One-Day Workshop in-person: Member \$70, Non-member \$90

Banquet: Member \$30, Non-member \$40



Confirmed speakers include:

- ⇒ Luka Kovacec, Program Manager, Programs Branch, Agriculture and Agri-Food Canada. Luka is the program director for Agricultural Climate Solutions and will be introducing the Agricultural Climate Solutions Program.
- ⇒ Jean Lafond, Soil science specialist, Science and technology branch, Agriculture and Agri-Food Canada. Jean will be discussing Climate Solutions and Best Management Practices in the Wild Blueberry Production System.
- ⇒ John Duynisveld, Research Biologist, Agriculture and Agri-Food Canada. John will be presenting his wealth of knowledge on rotational grazing systems.
- ⇒ Blake Vince, 5th generation farmer from Merlin, Ontario, Nuffield Scholar. Blake will be sharing his hands on experience with integrating cover crops into his far operations.

Member Service Description

Geomatic packages

- Includes a basic set of farm maps. These maps are georeferenced and illustrate watercourses and other buffers
- Custom mapping packages include Soil Status maps, Target Balance Maps, Variable Rate Application Maps

GPS work

- Perimeter mapping, area determination, crop yields

Soil Sampling package

- Includes sampling, sample preparation, completion of soil form and submission of samples, and interpretation of results as well as recommendations (does not include cost of soil analysis)

Environmental Farm Plan

- Can create field and farm maps, emergency response plans, as part of your environmental farm plan

Equipment calibration

- Calibrations on sprayers, seeders and manure spreaders

Emergency Response Plan

- A written emergency response plan for compliance with regulatory bodies

Nutrient Management Plan

- Whole farm nutrient management plans, including plans compliant with the Livestock Operations Act

Intensive Crop Management Planning

- Integrated Pest Management
- Scouting fields for insect pests and weeds
- Plant population counts and plant emergence counts

Canada GAP Pre-Audit Assessment

Cost of Production Analysis

Crop Monitoring

Production Management

Contact Us

If you are in need of any services, or have any questions, please contact your local Coordinator.

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