



U.P. Ag Connections Newsletter

April 2022

Agricultural News from MSU Extension and AgBioResearch

Volume 26 Issue 4

In this issue:

Page 2-4

- Grain & Fiber Hemp variety trials
- Hemp videos

Page 5

- Cold storage grants available
- Mole drains

Page 6

- Advertisers

Page 7

- Advertisers
- Bay de Noc Gardening Conference

Page 8

- Market Report
- Classifieds

Why should you care?

If you get the Ag Connections – you should care about the future of MSU research and extension in the UP. Over my 40+ years involved with UP agriculture, both you and I have seen many changes in the way farming is done in the UP. Many of those advances have involved MSU. The process of adaptation and change still occurs and will continue to be necessary if UP agriculture (your farm) is to succeed in the future. You say you are a dairy farmer in Menominee county and there's no UP dairy research, but what about all the cropping studies and variety trials that have been done in your county? The bull fertility work for beef herds was started by MSU where it wasn't available before. Just ask anyone who had a "no calf" calf crop about the importance of bull fertility. And what about all the new farms/farmers who grow and direct market their production? You have your own "North Farm" to help people get started and fine tune this new and exciting form of UP agriculture.

Here's my point – When the "suits" in E. Lansing dole out the funds, or make the cuts, UP agriculture needs someone – some organization that represents all of UP agriculture at the table. And the Growing UP Agriculture Association, GUPAA, has been that go-to representation for UP agriculture. MSU has recognized and listened to GUPAA for the last 40 years and we need that voice in E. Lansing more than ever to make sure we, all of UP agriculture, aren't forgotten.

Covid messed up a lot of traditional annual meetings, but GUPAA's annual meeting is back in person this year in Escanaba on Thursday, April 7. Lunch is provided for \$10 and please RSVP if you are able to attend. Your attendance would be great. See the enclosed GUPAA Growing Report for agenda, times, etc. But if you can't make it, PLEASE send \$10 (one McDonald's meal) for your GUPAA membership. Your membership shows that GUPAA represents UP agriculture. It enables GUPAA to continue to work for a better future in collaboration with MSU. Your \$10 membership makes a difference. Thank you and hope to see you on April 7.

Ben Bartlett, President GUPAA
Sheep and Cattle Producer

Beef Quality Assurance (BQA) Certification

<u>Dates</u>	<u>Locations</u>
April 26	Rudyard Twp Hall
April 27	Bay College, Heirman Center
April 28	Twilley's in Bruce Crossing

GUPAA Annual Meeting

Thursday, April 7, 2022

11:00 am-3:00 pm ET

Heirman University Center

Room 952

Bay College

Escanaba, MI

2021 GRAIN & FIBER HEMP VARIETY TRIALS

J. DeDecker, A. Bahrman, K. Jacques, C. Kapp, B. Southwell, S. Yanni

Intro and Methods

Researchers at Bay Mills Community College, Michigan State University and Lake Superior State University received funding from USDA-NIFA to conduct grain and fiber hemp variety trials at three locations in 2021. Fifteen varieties of grain hemp were tested in Brimley, Hyde and Carp Lake, MI. An additional five varieties of fiber hemp were tested at Hyde, MI. Here we report information regarding the trials conducted in Hyde and Brimley only due to the crop being lost to weeds at Carp Lake. Hemp varieties were sourced from seed companies in Europe, Canada and the Northern US under the assumption that conditions there would be similar to Northern Michigan, particularly in terms of day length and temperature.

The trial at Hyde was managed conventionally, while the Brimley trial used organic practices. 300 lbs/ac 0-14-42 fertilizer blend, plus 217 lbs/ac 46-0-0 urea was applied pre-plant at Hyde. 1,000 lbs. per acre of 10-0-4 feather meal was applied pre-plant at Brimley. The trials were drilled May 27th (Hyde) & June 18th (Brimley) at 25 plants/ft² for grain varieties and 50 plants/ft² for fiber, adjusting for germination and seed size. The experimental design was a RCBD with four replications. Plots were 4 ft. X 16 ft. with 7 inch row spacing. One pt/ac of Broclean, plus 10 oz/ac of Assure herbicide was applied at Hyde for weed control on June 22nd. Plots at Brimley were hand weeded once for weed control on July 20th. Observations of stand establishment, flowering date, white mold severity, and height at harvest were recorded.

Fiber plots at Hyde were harvested August 16th once all varieties were actively flowering. Whole plots were cut with a Jari sickle bar mower and weighed green. Two grab samples were collected from each plot for 1) direct oven drying for moisture determination, and 2) field retting. Stem diameter measurements were taken on 12 stems per plot. Bundled samples were weighed, retted on turf for five weeks, oven dried and re-weighed. Fiber dry matter yields are reported here at 0% moisture. Aggregate flower samples (unreplicated) were collected at harvest and submitted to LSSU for cannabinoid analysis.

Grain plots were harvested Aug. 23rd – Oct 28th based on maturity. We hand cut whole plants from one (Brimley) or two (Hyde) 1 M² quadrats per plot. Plants were air dried and threshed using an Almaco small bundle thresher. Grain stems were weighed after threshing and not retted. Grain was cleaned using a Clipper seed cleaner and weighed. Clean grain was oven dried at 120 degrees F and reweighed to determine moisture content. Clean grain yields reported here are adjusted to 9% moisture. Aggregate flower samples (unreplicated) were collected at harvest, air dried, and held in storage before submission for cannabinoid analysis.

Results and Discussion

Significant differences were observed in fiber hemp stand, herbicide injury, flower date, retted dry matter yield and stem diameter at Hyde, MI (Tables 1 & 2). The average retted fiber dry matter yield was 5,569.30 lbs/ac with the lowest yielding variety, Bialobrzeskie, producing 4,508.81 lbs/ac and the highest yielding variety, Tiborszallasi, producing 7,006.75 lbs/ac. Bialobrzeskie, Futura 75 and Kompolti experienced significant herbicide injury, which stunted plants and likely reduced both stand and fiber yield. All varieties were THC compliant, except Bialobrzeskie at 0.63% total THC.

Significant differences were observed in grain hemp stand, herbicide injury, flower date, height, disease, grain yield and fiber yield at Hyde, MI (Tables 3 & 4). The average clean grain yield was 990.18 lbs/ac with the lowest yielding variety, Hlesiia, producing 378.35 lbs/ac and the highest yielding variety, Bialobrzeskie, producing 1,267.19 lbs/ac. The average un-retted fiber dry matter yield from grain varieties at Hyde was 2,964.45 lbs/ac with the lowest yielding variety, Picolo, producing 1,181.81 lbs/ac and the highest yielding variety, Bialobrzeskie, producing 5,485.39 lbs/ac. Bialobrzeskie, NWG 4000, NWG 4113, Henola and Amaze Auto experienced significant herbicide injury. However, in the case of grain varieties, herbicide injury was correlated with higher grain yields. All varieties were THC compliant, but concentrations were generally lower than expected, perhaps due to sample degradation in storage.

PURPOSE:

Compare performance of available grain and fiber hemp varieties, under Northern MI conditions.

TRIAL LOCATIONS:

MSU Forestry Innovation Center – Hyde, MI

Waishkey Bay Farm – Brimley, MI

EXPERIMENTAL DESIGN:

Randomized complete block design with four replications.

TRIAL MANAGEMENT:

- Planted May 27 (Hyde) & June 18 (Brimley) at 25/50 plants/ft²
- Plots 4' X 16', 7 in. rows
- Borders and alleys planted to decrease edge effect
- 300 lbs/ac 0-14-42, plus 217 lbs/ac 46-0-0 at Hyde
- 1,000 lbs/ac of 10-0-4 feather meal at Brimley
- 1 pt/ac of Broclean, 10 oz/ac of Assure at Hyde
- Hand weeding at Brimley
- Fiber Harvest Aug 16th
- Grain Harvest Aug 23rd-Oct 28th based on maturity

TAKE AWAYS:

- All varieties were THC compliant, except Bialobrzeskie at fiber harvest.
- Herbicide injury likely decreased fiber yield and increased grain yields.
- Tiborszallasi produced the highest fiber yields.
- Bialobrzeskie and NWG 4113 produced the highest grain yields.

Significant differences were observed in grain hemp stand, height, grain yield and fiber yield at Brimley, MI (Table 5). The average clean grain yield at Brimley was 603.13 lbs/ac with the lowest yielding variety, Hlesiia, producing 279.17 lbs/ac and the highest yielding variety, NWG 4113, producing 1040.78 lbs/ac. The average un-retted fiber dry matter yield from grain varieties at Brimley was 1134.76 lbs/ac with the lowest yielding variety, Picolo, producing 181.48 lbs/ac and the highest yielding variety, Bialobrzeskie, producing 2561.59 lbs/ac. All varieties were THC compliant, but concentrations were generally lower than expected, likely due to sample degradation in storage.

Table 1. Fiber Hemp Observations at Hyde, MI

Variety	Seeds/lb	Plant Date	Stand (1 ft ²)	Herbicide Injury (0-5)	Flower Date	Height (in)	Male (%)
Bialobrzeskie	34,091.85	27-May	19.13 bc	3.75 a	25-Jul bc	78.50 a	Mono
Futrura 75	24,854.36	27-May	20.13 bc	3.00 a	28-Jul b	79.25 a	Mono
Henola	30,961.91	27-May	11.63 c	1.25 bc	21-Jul c	67.75 a	Mono
Kompolti	25,354.50	27-May	21.00 b	2.50 ab	10-Aug a	83.25 a	46.00 a
Tiborszallasi	24,452.40	27-May	31.38 a	0.25 c	25-Jul bc	78.75 a	53.00 a
Average	27,943.00	27-May	20.65	2.15	28-Jul	77.50	49.50

Table 2. Fiber Hemp Yield at Hyde, MI

Variety	Harvest Date	Unretted DM Yield (lbs/a)	Retted DM Yield (lbs/a)	Stem Diameter (mm)	CBD (%)	THC (%)
Bialobrzeskie	16-Aug	6,974.29 a	4,508.81 b	6.24 a	4.20	0.63
Futrura 75	16-Aug	8,622.40 a	5,951.70 ab	6.07 ab	6.10	0.29
Henola	16-Aug	7,496.44 a	5,002.25 ab	5.98 ab	4.57	0.23
Kompolti	16-Aug	7,103.28 a	5,377.01 ab	6.10 ab	4.01	0.20
Tiborszallasi	16-Aug	8,556.77 a	7,006.75 a	5.12 b	6.27	0.30
Average	16-Aug	7,750.64	5,569.30	5.90	5.03	0.33

Table 3. Grain Hemp Observations at Hyde, MI

Variety	Seeds/lb	Plant Date	Stand (1 ft ²)	Herbicide Injury (0-5)	Flower Date	Height (in)
Altair	27,423.94	27-May	8.00 abc	0.25 c	19-Jul bc	77.25 bc
Amaze Auto	39,999.29	27-May	9.50 ab	2.00 abc	1-Jul d	36.00 e
Anka	30,752.00	27-May	3.25 d	0.00 c	20-Jul bc	84.88 ab
Bialobrzeskie	34,091.85	27-May	11.25 a	3.75 a	26-Jul a	91.63 a
CFX-2	28,103.59	27-May	8.75 abc	0.75 bc	4-Jul d	52.75 d
Grandi	28,965.01	27-May	7.25 a-d	0.75 bc	3-Jul d	51.13 de
Henola	30,961.91	27-May	8.00 abc	2.00 abc	18-Jul c	68.75 c
Hlesiia	28,331.79	27-May	6.25 bcd	0.25 c	21-Jul bc	82.88 ab
Hliana	25,255.68	27-May	4.75 cd	0.50 c	21-Jul bc	86.13 ab
Katani	32,169.65	27-May	6.25 bcd	0.50 c	1-Jul d	48.38 de
Anon. A	31,390.45	27-May	7.75 a-d	1.25 bc	23-Jul ab	74.38 bc
Anon. B	36,287.36	27-May	9.75 ab	1.25 bc	26-Jul a	79.63 abc
Anon. C	30,462.86	27-May	7.50 a-d	3.00 ab	22-Jul ab	76.00 bc
Anon. D	30,898.64	27-May	8.00 abc	3.00 ab	26-Jul a	79.00 bc
Picolo	29,358.71	27-May	4.25 cd	0.50 c	4-Jul d	46.50 de
Average	30,963.52	27-May	7.37	1.32	15-Jul	69.02

Table 4. Grain Hemp Yield at Hyde, MI

Variety	Harvest Date	White Mold (%)	Grain Yield (lbs/ac)	Fiber DM Yield (lbs/ac)	CBD (%)	THC (%)
Altair	15-Oct	8.13 ab	854.63 abc	4,848.64 ab	0.49	<0.05
Amaze Auto	23-Aug	NA	1,174.07 ab	1,497.97 e	0.23	0.05
Anka	15-Oct	4.00 ab	1,063.70 abc	3,635.85 bc	1.04	<0.05
Bialobrzieskie	21-Sep	8.63 ab	1,267.19 a	5,485.39 a	0.72	0.05
CFX-2	9-Sep	23.13 ab	1,089.60 abc	2,098.68 de	0.44	<0.05
Grandi	9-Sep	15.63 ab	1,071.63 abc	1,371.51 e	0.94	0.33
Henola	21-Sep	5.25 ab	1,063.46 abc	3,620.04 bc	0.62	<0.05
Hlesiia	21-Sep	1.38 b	378.35 c	4,758.22 ab	<0.05	<0.05
Hliana	21-Sep	11.50 ab	451.79 bc	3,905.22 bc	<0.05	<0.05
Katani	9-Sep	22.50 ab	1,111.22 ab	1,887.48 de	0.69	0.12
Anon. A	15-Oct	28.75 a	1,082.66 abc	1,939.96 de	5.43	0.21
Anon. B	15-Oct	15.00 ab	1,104.78 abc	3,382.92 bcd	2.58	0.05
Anon. C	15-Oct	25.75 ab	1,047.02 abc	2,450.25 cde	1.98	<0.05
Anon. D	15-Oct	23.75 ab	1,144.20 ab	2,402.82 cde	5.56	0.21
Piccolo	9-Sep	10.63 ab	948.34 abc	1,181.81 e	0.08	<0.05
Average	25-Sep	14.57	990.18	2,964.45	1.60	0.07

Table 5. Grain Hemp Yield at Brimley, MI

Variety	Plant Date	Stand (1 ft ²)	Height (in)	Harvest Date	Grain Yield (lbs/ac)	Fiber DM Yield (lbs/ac)	CBD (%)	THC (%)
Altair	18-Jun	6.55 ab	38.25 ab	28-Oct	760.38 ab	1571.99 ab	0.40	<0.05
Amaze Auto	NA	NA	NA	NA	NA	NA	NA	NA
Anka	18-Jun	1.77 b	53.00 ab	28-Oct	481.29 ab	1356.57 ab	0.16	<0.05
Bialobrzieskie	18-Jun	5.97 ab	51.00 ab	13-Oct	772.87 ab	2561.59 a	0.58	<0.05
CFX-2	18-Jun	3.00 ab	27.25 b	8-Sep	415.58 ab	593.76 b	<0.05	<0.05
Grandi	18-Jun	3.39 ab	23.25 b	8-Sep	545.61 ab	307.95 b	0.46	<0.05
Henola	18-Jun	4.16 ab	36.50 ab	13-Oct	711.65 ab	1151.48 ab	0.08	<0.05
Hlesiia	18-Jun	4.58 ab	42.50 ab	13-Oct	279.17 b	1376.59 ab	<0.05	<0.05
Hliana	18-Jun	7.39 a	40.00 ab	13-Oct	525.04 ab	1702.25 ab	<0.05	<0.05
Katani	18-Jun	2.53 ab	25.50 b	8-Sep	589.94 ab	340.83 b	0.62	<0.05
Anon. A	18-Jun	2.60 ab	49.67 ab	28-Oct	640.14 ab	1351.51 ab	0.88	<0.05
Anon. B	18-Jun	2.49 ab	56.25 a	28-Oct	823.81 ab	1439.19 ab	1.30	<0.05
Anon. C	18-Jun	2.58 ab	40.50 ab	28-Oct	552.96 ab	661.42 b	4.82	0.15
Anon. D	18-Jun	2.55 ab	43.75 ab	28-Oct	1040.78 a	1289.96 ab	3.13	0.05
Piccolo	18-Jun	1.81 b	21.00 b	8-Sep	304.64 ab	181.48 b	0.06	<0.05
Average	18-Jun	3.67	39.17	9-Oct	603.13	1134.76	1.21	0.01

See our hemp plots for yourself in videos produced during the 2021 growing season:

[Hemp Planting at Hyde, MI on May 27th](#)

[Fiber Hemp Harvest at Hyde, MI on Aug. 16th](#)

COLD STORAGE GRANTS AVAILABLE FOR U.P. FARMERS

The U.P. Food Exchange, in partnership with Upper Peninsula Food as Medicine Team and Upper Peninsula Commission for Area Progress, is excited to announce a grant opportunity for area farms to build cold storage facilities for storing fresh produce.

The grant program, funded by the Superior Health Foundation, will award up to \$14,000 to three farms from each to the U.P.'s three regional planning districts. Funds can be used for the materials and labor to build new or additional facilities, as well as access to technical assistance for construction and HVAC. This funding will support the increase of local food production by ensuring that farms have a place to safely store produce until it can be sold.

“Farm debt is a huge problem across the country. Even small-scale farming requires taking on a high amount of debt that is difficult to pay back, especially with an income that varies seasonally,” said Sarah Monte, outreach director at the Marquette Food Co-op and UPFE member. “UPFE is thrilled to be working on a project that helps minimize or remove a financial barrier for our area farms. All of us in the community benefit when local farms succeed.”

Cold storage facilities are essential for extending the agricultural sales season by providing space for keeping storage crops that can be sold well into the winter, directly supporting the growth of the U.P. farm economy and increasing access to local food for all residents.

“Currently, approximately 1 in 7 individuals or 14 percent of U.P. residents are food insecure. With the national average at 10.5 percent, the local numbers are significant,” said Tammy Rosa, nutrition program manager at UPCAP. “UPCAP participates in many community initiatives throughout the region and is very excited to be a part of this collaboration of partners working to improve the food security of residents with economic barriers, while building a stronger regional food system.”

- Applications open March 16, 2022
- Application Deadline is April 18, 2022 at 5pm
- Awards Announced May 3, 2022
- Project Completion Deadline is September 30, 2022

To learn more and to access the grant application, visit upfoodexchange.com/cold-storage-grant-program. Questions can be directed to info@upfoodexchange.com or 906-225-0671 x723.

Mole drains: A cheap alternative to subsurface tile drainage

Mole drains are a low-cost practice to improve the soil physical property and drainage performance. Moling is very suitable in heavy clay soil with a minimum of 45% clay content and less than 20% sand at the mole depth.

What are mole drains?

Mole drains are unlined tunnels (mole channels) in the clay subsoil formed by a mole plow. A mole plow is composed of a shank (leg) attached to a cylindrical bullet followed by a cylindrical expander. The process of pulling the mole plow results in soil cracks.

Why install mole drains?

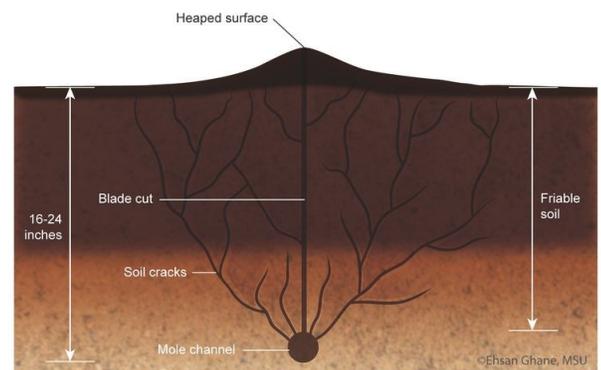
The following are reasons why you may need to install mole drains:

- In soil where surface drainage is insufficient for addressing excess water problems and installing subsurface (tile) drainage is uneconomical due to low crop income, mole drains are an inexpensive means to drain excess water from the soil profile. An example location is the Upper Peninsula of Michigan.
- In heavy clay soil with low permeability, mole drains can drain excess water from the soil profile. Mole drains can be combined with subsurface drainage to improve drainage performance in heavy clay soil.

Benefits of mole drains

The primary benefit of mole drains is its low cost. Other benefits are improved soil physical properties and increased crop yield in heavy clay soil. When properly installed, mole drains create soil cracks that increase soil aeration, increase infiltration and facilitate water movement toward the mole channels.

According to [Michigan State University Extension](#), mole drains should not be considered as merely a cheap version of subsurface drainage, but as a soil-and-drainage-improvement practice.



CHIPPEWA COUNTY FARM BUREAU®

President: Bruce Berkompas

Secretary: Terrie Slack

[\(906\) 635-7250](tel:9066357250)

S&R
Angus



Weston, WI

(715) 573-4924

www.srangus.com

Service age bulls, open females and show prospects for sale private treaty. Bulls are fertility tested and bred for calving ease and performance.



GreenStone
FARM CREDIT SERVICES

At the heart of growing America

100 years of Ag Experience

Loans, ag taxes, farm records, consulting

1801 N. Lincoln Road, Suite A, Escanaba, MI

(906) 786-4487 Fax: (906) 786-3450

Johnson Brothers Livestock

3740 18th Rd. Escanaba, MI

Buying or Hauling Cattle

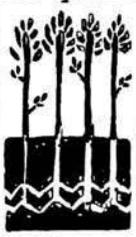
St. Louis—Mondays, Gaylord—Wednesdays

Call Gary Johnson

Office (906) 786-4878 Gary Cell (906) 235-0099

Steve Cell (906) 399-2858

marquette



food co-op

*Working to build
a vibrant U.P. food
economy since 1971*

Open Daily, 8 to 9 · Everyone Welcome
906-225-0671 · 502 W Washington St
www.marquettefood.coop

REGISTERED MAINE ANJOU AND ANGUS

CLAY KNOLL FARMS

OPEN & BRED HEIFERS AND BREEDING AGE
BULLS AVAILABLE

BREEDING CATTLE TO IMPACT THE
PRESENT AND INFLUENCE THE FUTURE.

BREEDING STOCK—BULLS
SHOW PROSPECTS—STEERS

DUANE & LISA SIMPKINS & SONS

DUANE CELL 989-329-6141

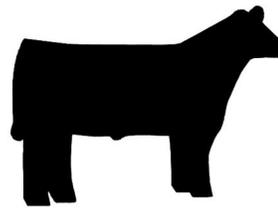
LISA CELL 989-578-0328

GARY & JAN SIMPKINS

HOME 989-426-8185

CELL 989-329-4668

GLADWIN, MI



Ray's Feed Mill

Ration & Crop
Consultants
Feed • Seed • Fertilizer



(800) 832-1822 or (906) 466-2231
Bark River & Norway

Rosebush Sale Barn, Inc.



Sale 1st Wednesday of each month

Baby heifer & bull calves sell every Tuesday at noon

Over 40 years experience in Dairy Business

If you're thinking about selling your herd, or a portion of it,
call us! We can help!

Hay & Straw available

Robert Filhart (989) 330-6005

www.rosebushsalebarn.com



Equity Cooperative Livestock Sales Association

WAUKON, IOWA
Feeder Sales Schedule

• 2nd & 4th Wednesdays

(563) 568-4501

www.equitycoop.com

United

Producers, Inc.

Farmer owned. Farmer values.

St. Louis Sale every Monday
Collection point in Escanaba
Call for more information (989) 681-2191



Skidders

Pickford, MI
(906) 647-5655 or
(877) 647-2500

Kubota, AGCO, Massey-Ferguson, New Idea, Hesston,
Gehl, Bush Hog, H&S, and Kverneland

Your source for Polled Genetics

Richlo Dairy Farms

Engadine, MI

*Polled Holstein, Jersey & Norwegian Red Bulls
available!*

Employment Opportunities!

*For all information on polled bulls in AI, call
Jonathan (906) 477-6505*



Equity Cooperative Livestock Sales Association

*Collecting Cattle on Tuesdays at the
Larry Linsmeier Farm north of Menominee, MI*

(906) 863-8123

www.equitycoop.com

SMC

Stephenson Marketing Cooperative

We want to be your first choice!
Agricultural Services & Supplies

Stephenson, MI

(800) 445-6167

Powers, MI

(800) 962-3008

Aurora, WI

(800) 962-3007

Marlette Livestock Auction

Monthly Dairy & Feeder Cattle Auctions

Sale Date 4/16/22

Featuring Dairy Cattle, Cow/Calf Pairs & Bred Brood Cows,
Breeder Bulls, & Feeder Steers & Heifers

Hay & Straw Auction - Every Monday @ 12:00 PM

1000+ Small Squares & 150+ Rounds/Large Squares Weekly

Livestock Auction - Every Monday @ 1:00 PM

Including Calves, Sheep & Goats, Feeders, Hogs, Bulls, Beef, &
Butcher Cows

6381 Euclid St., Marlette, MI 48453

Robert Filhart, Owner (989)330-6005

Haley Filhart, Owner (989)430-2055

Bay de Noc Gardening Conference Scheduled for April

April 14th is the registration deadline for the 22nd Annual Bay de Noc Gardening Conference in Escanaba. The event will be held at Bay College on Saturday, April 30. This year the event features eight different classes on a variety of yard and garden topics.

Participants will be able to choose to attend four classes at this day-long conference. "Smart Lawns for Bees and Beauty" will be presented by Rebecca Krans, MSU Extension Horticultural Educator. Dr. Dave Gafner will be discussing shrubs and landscape design. He will also be teaching a class on orchids. Other conference topics include shade gardening, growing miniature gardens, and vining type vegetables. Joe Kaplan, Director of Common Coast will present "Planting a Future for Birds and Bill Van Kosky from Marquette will talk about growing clematis.

The cost of the program is \$40.00 per person, which includes morning refreshments, box lunch, and up to four classes. Only pre-paid registrations postmarked by April 14th will be accepted. Attendance is limited to the first 100 registrants. Brochures can be picked up in the Escanaba area at Tractor Supply, Mel's Lawn and Garden, Wickert Floral, Pam's Petals, Escanaba Downtown Development Authority, and the Bonifas Arts Center. In the Marquette area, brochures are available at Flower Works and Forsbergs...a New Leaf. To receive a printable pdf of the brochure by email, contact DeltaCountyMGA@gmail.com or on Facebook, private message your email address to the event Facebook page, Bay de Noc Gardening Conference.

For a registration brochure or more information call, text, or leave message at 906-398-8145. The program is open to anyone with an interest in gardening, regardless of experience. The program also qualifies for Master Gardener educational credit. This event is sponsored by the Delta County Master Gardener Association, MSU-E Master Gardeners, Bay College, and the Bay de Noc Gardening Association.

Michigan State University
Upper Peninsula Research and Extension Center
P.O. Box 168, E3774 University Drive
Chatham, MI 49816

NON-PROFIT ORG
U.S. POSTAGE
PAID
PERMIT #77
SAULT STE MARIE, MI
49783



RETURN SERVICE REQUESTED

Serving the Upper Peninsula Agricultural Industry

Michigan State University Extension is an affirmative-action, equal-opportunity employer. Michigan State University programs and materials are open to all without regard to race, color, national origin, gender, gender identity, religion, age, height, weight, disability, political beliefs, sexual orientation, marital status, family status, or veteran status.

U.P. Ag Connections appreciates the support of this newsletter by our advertisers, however in no way does this imply endorsement of any specific products or services.

If you do not wish to receive this publication, please contact Michelle at colema98@msu.edu or (906) 439-5114

Market Report

Choice Steers	\$135-\$145 per 100 lbs.
Holstein Steers	\$125-\$135 per 100 lbs.
Hogs	\$73-\$94 per 100 lbs.
Lambs	\$200-\$260 per 100 lbs.
Cull cows	\$80-\$90 per 100 lbs.
Calves	\$75-\$100 per 100 lbs.
Goats	\$200-\$450 per 100 lbs.

Breeding and Feeder Animals

Grade Holstein cows	\$2150/head
Grade Holstein bred heifers	\$2250/head

Feed Prices across the U.P.

	Avg. \$/cwt	Avg. \$/ton	Price Range
Corn	\$16.30	\$320.90	\$265-440
Soymeal	\$28.93	\$549.75	\$540-624
Oats	\$18.74	\$369.75	\$320-420
Barley	\$13.90	\$278.25	\$200-394
Average price/100 wt. for 1 ton lots			

STEVE BAKER

Farmer / Agent

TERVO

Farm insurance simplified.

230 E. Quincy Street
Hancock, MI 49930
steve@tervoagency.com

CELL (906) 281-0357
OFFICE (906) 482-0080

www.tervoagency.com

auto • home • life • business • bonds

Classifieds

WANTED: Pasture for 25-35 cow calf pairs for the summer of 2022 in the Eastern UP. Will consider a custom grazing arrangement as well. Call Ben at (989)370-3570.

Looking for animals to custom graze on 120 acres. Henry Miller 2351 W 6 Mile Rd, Sault Ste Marie, 49783

FOR SALE: High moisture corn, approximately 5,000 bushels in harvester already rolled. \$8/per 100; \$160/ton. (906) 424-0225.

FOR SALE: Angus bull, AI sired, Born 9-9-21, Sire is Niagara, Maternal sire is J. Edgar Hoover, Select Sire & Genex breeding, AI Breeding for 43 years. Call (906) 265-5217.

FOR SALE: Simmental Bulls, mature and young, registered and non-registered. Call Duane Kolpack (906) 362-6862.

FOR SALE: 2nd and 3rd crop alfalfa, small square bales. Marenger Potato Farm, Flat Rock. (906) 384-6587.

FOR SALE: Hay, large square bales 3x3x7.75 Timothy grass, 4,000 to sell. Former dairy farm doing all big square bales hay. Call Dave Bell in the EUP 906-440-6455 or email Bellsdairy@yahoo.com. Also a realtor in the UP so contact me for real estate here.