



U.P. Ag Connections Newsletter

October 2021

Agricultural News from MSU Extension and AgBioResearch

Volume 25 Issue 10

In this issue:

Page 2-3

- Winter hardiness in barley

Page 4

- Upcoming field days and pasture walks
- Field crops insect pest management guide

Page 5

- Market report
- Classifieds
- Fall classic cattle sale

Page 6

- Advertisers

Page 7

- Advertisers
- West Branch Feeder Calf Sale

Page 8

- Wild carrot control on UP farms

2021 crop performance variable across U.P.

Jim Isleib, MSU Extension U.P. Crop Production Educator

The very dry spring weather across the U.P. region allowed for early field work, but was very bad for grass hay development, resulting in unofficial reports of reduction in normal yields of 50% or more for 1st cutting grass and grass/legume hay crops. Pastures were slow starting and poor grass growth caused some challenges. Alfalfa yields were not as badly affected, due to the deep root system of the alfalfa plants.

Annual crops, including potatoes, small grains, dry beans and others were generally planted in a timely fashion. Emergence may have been delayed somewhat by dry soil and cool weather, but once rains arrived in June, these crops grew well. Rains were generally good through the rest of the growing season, with some exceptions.

Informal predictions of corn silage and grain yields are quite good in most areas. Yields of small grains including oats, barley and rye are average or better, potato harvest is underway with anticipation of good yields and quality, and the small acreages of dry beans and soybeans in the U.P. region show promise of good yields.

The big loser this year has been grass and mixed grass/legume hay.

The following table includes data from the 4 MSU Enviroweather stations across the U.P. region. Note that 2021 rainfall is below the four-year average at all locations, but growing degree days (a measurement of heat relating to plant growth) is above average at all locations. Those crops that avoided the spring drought and received timely rain had a good chance to perform well this year.

	<u>Total rainfall</u> 4/1 – 9/30/21	<u>Avg rainfall</u> 2017-2020 (4/1 – 9/30)	<u>Degree Days b42</u> 3/1 – 9/30/21	<u>Avg Degree Days b42</u> 2017-2020	<u>Degree Days b50</u> 3/1 – 9/30/21	<u>Avg Degree Days b50</u> 2017-2020
Chatham	15.25	20.7	3197	2878	1992	1777
Escanaba	16.38	17.9	3204	3012	2009	1871
McMillan / Newberry	15.12	17.9	3207	3031	1993	1893
Stephenson	11.52	19.2	3466	3253	2231	2078

Investigating Winter Hardiness to Advance Winter Malting Barley as a Climate Adaptation Strategy in Michigan

The Michigan malting barley industry has identified winter barley production as a promising alternative to spring barley, which may be better adapted to the agroecology of our state and unique opportunities/risks that climate change presents. Winter barley, planted in the fall and harvested the following summer, is better suited to the warming climate of southern Michigan, shows impressive yield potential relative to spring barley, may help to reduce the risk of head scab disease, and also permits double cropping with soybeans. Research elsewhere suggests that climate change will likely allow movement of winter barley production further northward into nontraditional growing areas. Yet, it remains unclear what the northern geographic threshold may be for winter barley production in Michigan today, and under future climate conditions. Recently, the winter of 2018-19 resulted in widespread injury to winter barley in southern Michigan and Ohio, suggesting that ongoing efforts to understand winter hardiness in barley and development of resilient winter barley varieties should be prioritized. In 2020-21, MSU received support from the Michigan Craft Beverage Council to investigate winter barley hardiness as a climate adaptation strategy for Michigan agriculture. The early results of this work are summarized below.

Objectives:

1. Compare winter injury and survival of seven elite winter barley cultivars under variable temperature, precipitation and snow cover conditions at five locations across Michigan representing USDA hardiness zones 4b – 6b.
2. Quantify known and novel traits previously associated with winter hardiness by sampling barley tissue from the field and analyzing it for desiccation, sugar accumulation, fatty acid desaturation, antioxidative enzyme levels and expression of DNA repair genes.
3. Improve winter barley variety development and Michigan site selection by constructing predictive winter hardiness models and sharing this new information through extension.

Methods:

- Five locations representing Michigan’s USDA hardiness zones at Empire (6b), KBS (6a), Stockbridge (5b), UPREC (5a) and Brimley (4b)
- Seven winter barley varieties and one cereal rye check
 - ◊ Charles, Flavia, LCS Calypso, LCS Violetta, Puffin, Thoroughbred, Wintmalt, KWS Serafino (rye)
- Sensors monitoring temperature, relative humidity and snow cover (light and cameras)
- Tissue sampling before and after cold hardening in the fall, followed by lab analysis
- Fall and spring stand counts
- Spring canopy cover observations (Canopeo)

Observations:

Location (Hardiness Zone)	Lat.	Plant Date	Avg. Fall Pop. (1 Ft ²)	Fall GDDs (32 F)	Min Crop Temp (F)	Snow Period	Max Snow Depth (In)
Empire (6b)	44.81	9/17	25.17	1,537.87	9.22	12/13-3/10	11
KBS (6a)	42.41	9/23	29.78	1,537.45	20.53	12/24-2/28	13
Stockbridge (5b)	42.45	11/5	29.49	454.84	21.66	12/25-2/28	16
UPREC (5a)	46.35	9/10	22.92	1,083.60	17.98	12/12-3/15	17
Brimley (4b)	46.40	9/18	17.25	1,091.34	16.32	12/14-3/18	18

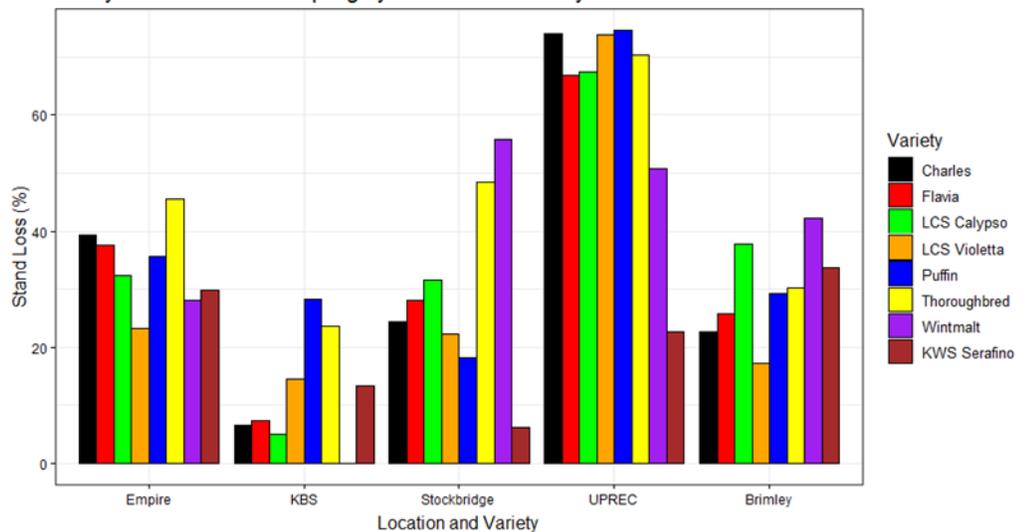
Preliminary Results:

- Stand loss over the winter varied significantly across varieties, by location.
 - ◊ UPREC experienced significantly more, and KBS significantly less, stand loss than the other locations.
 - ◊ Cereal rye (KWS Serafino) experienced significantly less stand loss than all winter barley varieties at Stockbridge and UPREC.
 - ◊ LCS Calypso experienced significantly less, and Wintmalt significantly more, stand loss than other winter barley varieties across most locations.
 - ◊ Wintmalt and LCS Calypso experience significantly less stand loss than other varieties at UPREC.
- Spring canopy cover varied significantly across varieties, by location.
 - ◊ Cereal rye (KWS Serafino) had significantly more canopy cover than winter barley at all locations, except Brimley.
 - ◊ Stockbridge and KBS had significantly more, Empire and UPREC significantly less, canopy cover than Brimley.
 - ◊ Wintmalt had significantly more canopy cover than other varieties at KBS and UPREC.
 - ◊ LCS Calypso, Thoroughbred, LCS Violetta, Flavia and Wintmalt had significantly less canopy cover than Charles at Stockbridge.

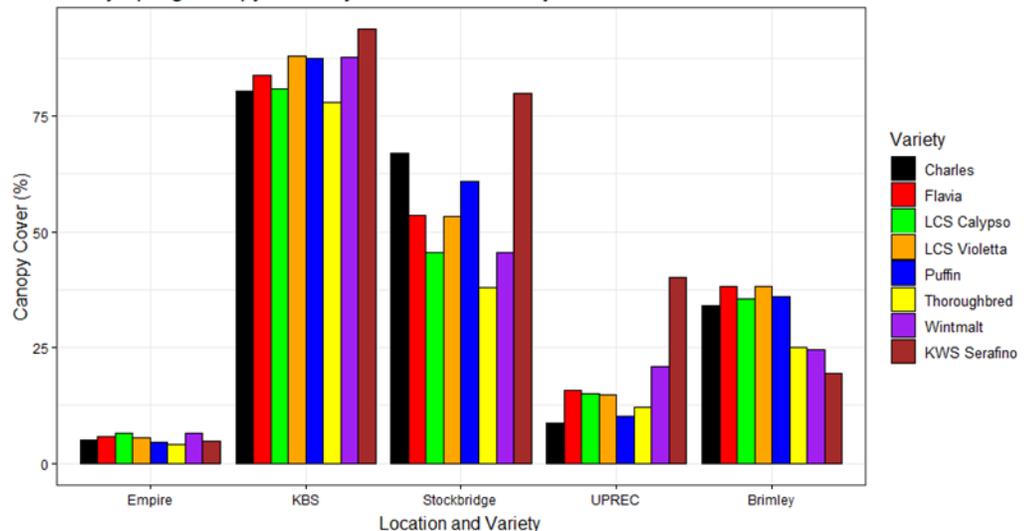
Next Steps:

- Complete lab analysis of barley tissue for traits associated with winter hardiness.
- Model relationship(s) between stand, green cover, environmental and tissue variables.
- Collect additional years of data to validate and/or improve our winter hardiness model.

Barley Stand Loss Fall to Spring by Location and Variety



Barley Spring Canopy Cover by Location and Variety



**Soybean Foliar Applied Products
& Corn Nitrogen Rates/Products:**

**Two-part Field Day Event
Thursday, October 14**

Part 1 - 10:00 to 11:15 a.m.

**Soybean Foliar Applied Fertilizer and Biological Products
Demo Plot**

Located at intersection of Larmey Lane & Hogsback Road,
0.5 miles north of Cty WW on Hogsback Road
or 2 miles south of Cty M on Town Line/Hogsback Road

Part 2 -11:15 a.m. to 12:30 p.m.

Corn Nitrogen Product and Rate Research Plots

Located 0.8 miles south of Cty M on Town Line Road.

Host Farm: Aaron Behnke

Discussion and Plot Tours:

- * Soybean Foliar Fertilizer Product Plots
What products have an effect on yield, timing of application, options of combining with insecticide or fungicide applications, other factors
 - * Soybean population and other agronomics impacting yield and pest management
 - * Corn Nitrogen Management - Corn N rate and Envita™ plots
Do new N enhancement products work? What rates are best in our area?
 - * Corn & Soy Management Question and Answer Session
- Free to attend, Pre-registration not required. Contact Scott Reuss with any questions, at 715-732-7510.

New field crop insect pest management guide available

Jim Isleib, MSU Extension U.P. Crop Production Educator

The new 'MSU-OSU Field Crops Insect Pest Management Guide' authored by MSU field crops entomologist Dr. Chris Difonzo and Ohio State University's field crops entomologist Dr. Kelley Tilmon is now available. This type of resource has not been updated for several years and is much appreciated. It includes detailed information about current insecticides (chemistry, RUP status, re-entry intervals, class of actions, etc), comprehensive listings of insect pests, timing and types of damage caused, life cycles and control measures by crop.

The new guide is presented in 7 sections, including:

1. How to use this guide
2. Insect guide for forages
3. Insect guide for field corn
4. Insect guide for small grains
5. Insect guide for dry beans
6. Insect guide for soybeans
7. Insect guide for sugarbeets

The guide can be found on-line at <https://aginsects.osu.edu/news/msu-osu-insect-ipm-guide> or by googling *msu osu insect guide*.

Beef Management on Grass:

A Pasture Walk for new and established graziers

Saturday, October 16

10 a.m. to 1 p.m.

Lunch Provided – Sponsored by Crivitz Feed Mill and Marinette Cty. Dairy Promotions

Location: W8623 Cty. Hwy. P; Crivitz, WI (1.5 miles west of Hwy. 141 on Hwy. P)

Host: Greg Lewandowski

Pre-registration appreciated to ensure lunch availability for all attendees. Text/call Scott Reuss at 715-701-0966 or email to scott.reuss@wisc.edu with number attending.

Discussion and Viewing Topics:

+ Establishing a grazing operation: Planning, Cost-share opportunities, Resources available, Fence and water options.

* Fall Forage Management Considerations

* Grazing forages selection for NE WI

Any other topic brought up by attendees!

**Corn Fertilization & Hybrid Selection Field Day
Tuesday, October 26, 10 a.m. to Noon**

Intersection of Wildlife Ln & Louisa Rd, 1.5 miles north of Crivitz, WI on Louisa Rd
Host: Dudkiewicz Farms

Discussion Topics and Plot Tours:

Selecting Hybrids for Your Farm: What to look for
Hybrid and Nitrogen Rate Plots
Nitrogen Fertilization: Selecting Rates, Timing, and Products

Starter Fertilizers: What is Best?

Tillage Practice Impacts on Nutrient Management

Corn Management Question and Answer Session

Discussion Topics and Plot Tour order to be decided day of event.

Discussion topics led/facilitated by:

- * Scott Reuss, Agriculture Agent, UW-Madison, Division of Extension, Marinette and Oconto Counties
- * Jamie Patton, Sr. Outreach Specialist, UW-Madison NPM Program
- * Pioneer and Country Visions personnel
- * Joe and Ashley Dudkiewicz, Host Farmers

Field day is free, pre-registration not required
Contact Scott Reuss with any questions, 715-732-7510 or scott.reuss@wisc.edu

Classifieds

FOR SALE: Hay, 1st, 2nd, 3rd crop alfalfa baleage. Call Jim (906) 644-2107.

FREE: 30 ACRE HAY STUMPAGE. Looking for farmer to cut hayfield or develop crop annually. No rent or lease required. McMillan, Lakefield Township. Call Ed or Doris (713) 851-5987 or (281) 787-3179.

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: Registered Dexter cattle, all ages and models. Call Tolfree Farms (906) 884-2351 or email countryj@jamadots.com.

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. Dave@smith-company.com

Beautiful property in the Upper Michigan, 130 acres In Perkins for sale or pasture for rent for livestock for the 2021 season. Beautiful river running through it. Great for hunting, building or developing, or simple grazing livestock. Land is divided into 9 paddocks with high tensile electric fence and 5 stock watering ponds. Call (906) 359-4825.

FARM FOR SALE: Upper Peninsula Farm with over 1,100 acres, water access, maple syrup production, and much more! **Shady Lane Farms**
<http://shadylnfarms.wixsite.com/shadylnfarms>
Henry DeGroot (906) 238-4251
hjdegroot@alphacomm.net

FOR SALE: John Deere B. Clean, less than 50 hrs on rebuild. **Allis-Chalmers C.** New paint, runs good. **Hay Hauler.** Hauls up to 10—4x6 round bales, use spear on back, don't have to unhook. Call Terry (906)644-2777.

FOR SALE: International 5000, Self-propelled 14 foot windrower cab-hydro-diesel, has detachable hay conditioner. Stored inside, field ready. \$5000 (906) 988-2397.

FOR SALE:

52'elevator Kewanen PTO drag line
NH 56 Rake
Gehl Round Baler 4x4
3 pt wheel rake 16' wide
3 hay wagons with racks
All used last year
(906) 988-2397

FOR SALE: Simm Angus Bulls-Genomic Tested, Balanced EPD's, Great Disposition, born Fall of 2020. (906)281-0808 or (815)614-0163.

Market Report

Choice Steers	\$115-\$125 per 100 lbs.
Holstein Steers	\$105-\$115 per 100 lbs.
Hogs	\$49-\$53 per 100 lbs.
Lambs	\$200-\$270 per 100 lbs.
Cull cows	\$55-\$65 per 100 lbs.
Calves	\$75-\$115 per 100 lbs.
Goats	\$200-\$340 per 100 lbs.

Breeding and Feeder Animals

Grade Holstein cows	\$700-\$875/head
Grade Holstein bred heifers	\$1000-\$1250/head

Feed Prices across the U.P.

	Avg. \$/cwt	Avg. \$/ton	Price Range
Corn	\$15.76	\$315.25	\$265-426
Soymeal	\$26.31	\$526.25	\$459-624
Oats	\$13.74	\$274.75	\$240-340
Barley	\$12.41	\$248.25	\$200-314
Average price/100 wt. for 1 ton lots			

Fall Classic Cattle Sale

Held by
Bay de Noc Beef Producers

October 9th, 2021 Live Auction 1:00 Col. Bill Sheridan

U.P. State Fairgrounds Beef Barn

Animals available to view at 11:00

4-H Steers Heifers Breeding Stock

Consignments Due September 18th

For more information or to consign
join our Facebook group or contact:

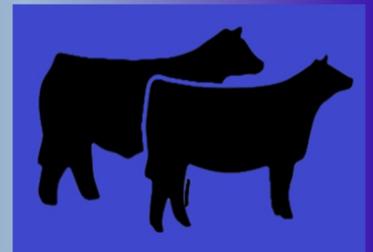
Karl Soderman (906) 280-2364

Amanda Soderman (906) 399-0687

Bay de Noc



Beef Producers
Est. 1958



CHIPPEWA COUNTY FARM BUREAU®

President: Bruce Berkompas

Secretary: Terrie Slack

(906) 430-5035

S&R  **Weston, WI**
Angus (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.



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



*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

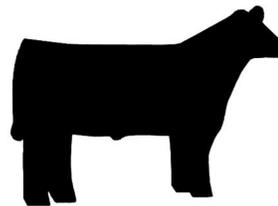
LISA CELL 989-578-0328

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

Equity Cooperative Livestock Sales Association

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

(906) 863-8123

www.equitycoop.com

Marlette Livestock Auction

Monthly Dairy & Feeder Cattle Auctions

Sale date October 16, 2021

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

GINOP SALES

Kubota Inc. Land Pride
SINCE 1959

When you think tractors ... think Ginop Sales!

On M-68 Alanson, MI	On M-72 Williamsburg, MI	On M-32 Hillman, MI
------------------------	-----------------------------	------------------------

www.GINOPSALES.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	

77TH ANNUAL WEST BRANCH FEEDER CALF SALE

October 19, 2021 • 12:00pm • 1676 Fairview Road • West Branch, Michigan 48661

CALL TODAY FOR MEMBERSHIP CONSIGNMENT REQUIREMENTS! (989) 370-6200 OR VISIT WWW.WBFEEDECALFSALE.COM



MICHIGAN'S PREMIER FEEDER CALF MARKET



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

Wild carrot control on U.P. farms

Jim Isleib, MSU Extension U.P. Crop Production Educator

In follow-up to contacts with farmers experiencing unusual trouble with wild carrot (*Daucus carota*) this summer, I contacted MSU weed scientist Dr. Erin Burns for detailed recommendations and thoughts. Erin sent the following useful and practical information:

Since wild carrot is a biennial (most populations, sometimes can act as an annual or short lived perennial), seed production is pretty important for the population to survive. If farmers can prevent new seed production this will have large impacts on overall control. Herbicide options are most effective either in the fall or early spring to rosette stage plants. If most of the plants have already flowered, I would try to mow/graze/clip/hay prior to those plants becoming more mature and producing viable seed. This fall I would then apply Crossbow (2,4-D ester + triclopyr, 2 qt/A of the 3L formulation, do not apply within 14 days of harvesting hay) to new rosette growth and again in the spring to new rosettes. The addition of triclopyr to the 2,4-D should provide better control than just 2,4-D alone. There are 2,4-D resistant populations. If none of the plants are controlled after this application I would try to collect seed and send it to diagnostic services for testing. There are other "hotter" herbicides/premixes available to control wild carrot that contain aminopyralid, aminopyralid has a lot of restrictions so I would treat that as a last resort or consider rotating to something else if the Crossbow apps do not help. As a general note, the Crossbow application will control any broadleaf plants, so only the grass will be left.