

A Service of **Cloverland Electric Cooperative**

July/August 2012

Michigan

COUNTRY LINES



***Great Lakes
Asian Carp Threat***
Plus: Q&A with Carp Czar John Goss



4 2011 Co-op
Highlights

8 Annual
Report

20 Board Service
Spans Five Decades



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10



15



18

DEPARTMENTS

6 Readers' Pages
Letters, mystery photo,
Youth Tour review,
scholarships

18 Home Cooking
Garden fresh
*Christin Russman &
Our readers*

22 Wolverine Power*
Clearing the way for
electric reliability
Nancy Tanner

YOUR CO-OP

Pages specific to your
electric cooperative: 1,
4-5, 8-9, 20-21, 24-25, 28

*Not in all editions

COLUMNS

11 Comment*
How the meters used by
your electric co-op work
for you
Gail Knudtson

15 Gardening
Visit trial gardens
Rita Henehan

22 Family*
Summer fitness for
bodies and brains
Linda Wacyk

23 House & Home
Hot water can heat your
home
James Dulley

26 Ramblings
Too much stuff
Mike Buda

FEATURES

10 Michigan-made
First mate organizer
keeps boats ship-shape
Linda Kotzian

12 Cover Stories
Michigan on guard
against Asian carp
Robert Gwizdz

**13 Q & A with federal
Asian carp director
John Goss**

16 Our Energy
Cyber security patrols
Megan McKay-Noe

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Postmaster: send address changes to Country Lines, 2859 W. Jolly Rd., Okemos, MI 48864.

Letters to the editor should be sent to the same address. Phone 517-913-3531. Email: gknudtson@meca.coop.

Association officers are **Tony Anderson**, Cherryland, chairman; **Ken Swope**, Midwest Energy, 1st vice chairman; **Robert Schallip**, Cloverland, 2nd vice chairman; **Eric Baker**, Wolverine Power, secretary-treasurer; and **Brian Burns**, PIE&G, past chairman. **Craig Borr** is president and CEO.

Unsolicited letters, photos and manuscripts are welcome. Country Lines, however, will not be responsible for their safe keeping or return.

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Change of Address: Please notify your electric cooperative. See page 4 for contact information.



On the Cover

Asian bighead (on display at Shedd Aquarium in Chicago) and silver carp are invasive fish that are threatening entry into Lake Michigan and the other Great Lakes. The carp are voracious eaters that are harmful to the Lakes' ecosystems and fishing industries.

Photo – Kate Gardiner



Michigan's Electric
Cooperatives
countrylines.com



Robert Schallip
Chairperson
Board of Directors



Daniel Dasho
President & Chief
Executive Officer

Message

The Cloverland Electric board of directors and staff is working hard at building a stronger cooperative. As member-owners, we encourage you to share your ideas and suggestions for improving operations. It takes a collective effort to do so and you share that responsibility. Drop by our office, give us a call or send us an e-mail, we're here for you and encourage your involvement. As stewards of your cooperative, we are dedicated to providing you with exceptional service through the delivery of safe, reliable and affordable electricity. But that's not just our mission, it's our passion.

Highlights 2011

Our new mission statement:

Cloverland Electric Cooperative is focused on providing exceptional service to its members through the delivery of safe, reliable and affordable electricity.

Financials

TIER is a widely-accepted financial ratio used to measure the co-op's financial health and ability to meet the interest payments on its debt. Our financial lenders require a minimum TIER of 1.25. If the ratio falls below this baseline, an increase in base rates may be necessary. Despite the bankruptcy of our largest industrial account, the cooperative maintained a TIER of 1.97 in 2011. Manistique Papers has been purchased and operations are moving forward. We are encouraged and welcome the opportunity to work with the new owners.

Kilowatt-Hours

Our operating revenue depends on electricity sales. Last year, we sold 823 million kilowatt hours. This represents an increase of 1 percent over the prior year's combined kilowatt-hour sales.

Members

We welcomed 2,000 new members to our co-op family. As a not-for-profit utility, these members will share in the benefits of co-op

ownership, including future capital credit retirements.

Employees

We hired 16 employees and today employ 113 professionals. We expect the number of new faces will grow in the next few years as more employees become eligible for retirement.

There were four retirements last year. We recognized the dedicated service and contributions of George Rogers, Con Metro, John McDonald and Charles Litzner, whose combined years of service totaled more than a century.

Directors

District B Director Frank Talentino of Sault Ste. Marie and District C Director Rodney Richards of McMillan retired from the board of directors. Directors Talentino (12 years) and Richards (18 years) provided expert leadership, governance and guidance. District B Director Linda Hoath of Sault Ste. Marie and District C Director Virgil Monroe of Manistique were elected to the open board

seats. Director Gerald Nettleton of DeTour was re-elected in District A.

Technology

As a not-for-profit utility, we invest in technologies that can help control costs and improve service. In 2006, we began installing electronic meters which record and transmit meter readings to our office over the power lines. We use this data for billing purposes, power quality control and outage restoration. The technology helps us identify the location of outages faster, which speeds up restoration times. It improves our billing accuracy by eliminating the need to hand-key meter readings into our billing system, and it enhances our ability to provide members with detailed energy use data. These meters also eliminate estimated bills. Last year, we installed nearly 14,000 additional meters. We currently have more than 34,000 meters installed and will have the system-wide project completed in 2013.

Power Lines

Right-of-way maintenance is essential for both safety and system reliability. In 2011, contractors performed tree trimming along 253 miles of power lines in Clark, DeTour, Marquette, Pickford, Raber, Hendricks, Moran, Brevort and St. Ignace townships. Right-of-way maintenance accounted for 29 percent of our \$4.9 million distribution maintenance expense.

Forty-two miles of overhead power lines were rebuilt across our service area. A mile of overhead line was converted to underground in the St. Ignace area to improve reliability.

Facilities

We began the expansion of our Dafter facilities to centralize our materials and crews for improved efficiencies. The facilities were recently completed. Our Sault Service Center is now leased to the City of Sault Ste. Marie for use by the police department.

Fuel Mix

Hydroelectric power comprised 31.5 percent of our fuel mix. The balance of our power supply was generated from coal, natural gas, nuclear and renewable fuels.

Generation

Each month, the International Joint Commission allocates water to the co-op for generating electricity. We closely monitor and manage our water allocation and efficiently use it during hours of high demand. This practice reduces the amount of power we

need to purchase.

We strategically operate our diesel generation during times of peak demand. In 2011, the cost savings amounted to over \$1 million.

Capital Credits

Last July, the co-op allocated \$2.5 million in operating margins to members as capital credits. The unretired capital credits in your account represent your ownership equity. Over time, capital credits are retired and returned to current and former members as our financial condition permits. Last December, the board authorized the distribution of \$1 million. The cooperative has retired capital credits annually since 1985.

Hydroelectric Plant and Canal

We completed a multi-year, \$2.5 million canal improvement project. Contractors positioned over 22,000 tons of limestone in low spots along the canal floor where wooden planks and timbers had loosened and surfaced.

Both generator step-up hydro transformers were replaced due to the potential of an extended outage and loss of hydro generation should an operational failure occur. These units were installed in the 1960s and increase the voltage for the transmission of electricity over the power lines.

We removed and serviced three hydroelectric generators. The internal copper windings and insulation were upgraded for improved generation output and reliability.

Safety

Our employees continue to work safely. We had only one lost-time accident in 2011. Our safety program helps foster safe practices while reducing insurance costs for the cooperative.

Bylaws/Mission Statement

The board of directors updated the bylaws allowing for a more convenient voting method for director elections. Directors are now elected by mail-in ballot.

A new mission statement (see p. 4) was also adopted to better reflect the cooperative's focus today.



Cloverland
ELECTRIC COOPERATIVE

MEMBER SERVICE CENTERS

Monday–Friday • 8 a.m. to 4:30 p.m.

906-635-6800 • 1-800-562-4953

Email: office@cloverland.com

2916 W. M-28, Dafter, MI 49724
836 M-134, DeTour Village, MI 49725
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2972 W. 8th St., Sault Ste. Marie, MI 49783

BOARD OF DIRECTORS

Email: board@cloverland.com

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Virgil Monroe Director
District C – Manistique (906) 341-8808

President & CEO Daniel Dasho
Local Editor Wendy Malaska

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See pages 8-9 for annual
financial report

Letters

The "Ramblings" column (Mike Buda) about Father's Day, the U.S. Postal service, May Mystery Photo winner, scholarship winners, and the National Rural Electric Youth Tour to D.C. It's all here in your readers' pages.

"Family Man" Column

Just wanted to comment on how much I enjoyed your *Country Lines* column about your Dad. You were lucky having him so long, I lost mine in 1994. Like yours, mine was a great and interesting guy. While your Dad was in Guam, mine was in Saipan. Amazing how those young men just came home victorious and set about building families and lives. Like your Dad, mine rarely talked about his experiences there. They truly were a "great generation."

By the way, the back page is the first place I look every issue. Hope you keep it up for many years.

— Tim Stockdale

I really enjoyed the article about your dad. Thank you for telling part of your story, and his. It is uplifting to read about a man who put his family first, who had a natural ability to "keep things simple," and who enjoyed what he enjoyed! I'm ready for the book...his memoir and yours!

— Janine Winkler

As a 93-year-old WWII Veteran and long-time reader of *Country Lines*, I just

wanted you to know I enjoyed your handling of this personal story. It is "different" articles like yours that mix well with the usual "stuff" one finds in this type of publication. We have had a summer home in Michigan for many years and are so thankful to be able to spend parts of many summers on Lake Skegemog. We added our own 35-foot Lighthouse in 2008, which enhanced the attraction for us.

— Wallace G. Holdsworth

Wow! I can relate to your story, as I believe many others can, too.

Your story reminds me so much of my dad, who passed away in 2006. My dad served in the navy aboard the U.S.S. Savo Island, a small escort carrier, and served in WWII in the South Pacific.

Once out of the service, he became a builder and carpenter until he retired. He would then build lighthouses as a hobby out of cement molds in his shop later in life. They reminded him of his service days in the Navy and to this day many of them are in yards and by streams and lakes in the Kalamazoo area. Thanks for reminding us of our dads, and

how they worked hard to get where they wanted to be with their families. Enjoy reading your 'Ramblings'!

— Larry Weststrate

I was very pleased to see the article on America's National Parks and on behalf of the North Country National Scenic Trail, we thank you for the comments describing the trail.

The trail succeeds through the efforts of hundreds and hundreds of volunteers working in cooperation with many agencies at all levels of government, as well as private interests.

Threading its way across our landscape, the trail links outstanding scenic, natural, recreational, historic and cultural areas in seven of our northern states. Some portions of the trail invite easy walking, while others provide challenge, but everywhere the trail offers adventure.

— Tim Hass, President
Superior Shoreline Chapter
NCTA, Munising

Mystery Photo

The May Mystery Photo is the Mike Jylha Stadium in Alston, MI, on Hwy. M-38.

I spent many a summer Sunday watching the Alston Millers play teams from Trout Creek, South Range Ontonagon, plus others in the 1940s. The ball field was made and bleachers built in 1934. Right field fence was 440 feet from home plate and only one home run was hit over the fence—Paul Maki, catcher for L'Anse team

in 1952. It is reported to have traveled over 500 feet. The ball was found in the crotch of a tree and displayed at Yawkey's for several years. Yawkeys was an auto/truck repair and gas station across the road to the right of the picture. It was owned and run by my mother's cousin Aake Maki. Three of my cousins played on the team. Mike Jylha got the ball field started and was manager for many years. It was reported that he even made baseball bats during the Depression years at the Alston Sawmill where he worked.

— Mary Ann Arvo, Suttons Bay

U.S. Postal Service

My name is Ron Eaton, my wife and "Best Friend" of over 40 years is Karen. We reside in Vicksburg, MI, and have been co-op members since 1977.

In your May 2012 issue of *Country Lines* you ran a small column about why you send your great magazine.

Thank you for not only sending the magazine but for using the United States Postal Service to deliver it.

I am a retired letter carrier and am aware of the problems created by people and businesses not using the U.S.P.S. Not all of us have access to the internet and depend on the Postal Service to keep us abreast of all the services that you provide.

Thank you again for a great magazine and for using the U.S. mail. Please: Buy-A-Stamp – Send-A-Letter—Help preserve the Postal Service.

— Ron Eaton, Vicksburg



◀ DO YOU KNOW WHERE THIS IS?

Every co-op member who identifies the correct location of the photo at left by **August 10** will be entered in a drawing for a \$50 credit for electricity from their electric cooperative.

We do not accept Mystery Photo guesses by phone! Email mysteryphoto@countrylines.com, or send by mail to *Country Lines Mystery Photo*, 2859 W. Jolly Rd., Okemos, 48864. Include your name, address, phone number and name of your co-op. Only those sending complete information will be entered in the drawing. The winner will be announced in the September 2012 issue.

The May contest winner is Jim Hoover of Mass City, who correctly identified the photo as the Mike Jylha Stadium on M-38 near Alston in Houghton County.



Experience of a Lifetime

Michigan students tour Washington, D.C.

Seventeen high school students representing eight Michigan electric co-ops recently joined more than 1,500 other youth from across the country at the National Rural Electric Youth Tour to Washington, D.C.

The experience is an extension of the Michigan Youth Leadership Summit held in April, and is designed to give students a behind-the-scenes leadership experience.

The Michigan students visited memorials, museums and monuments, including guided tours through Arlington National Cemetery and the U.S. Capitol, stops at the WWII, Vietnam and Korean War Veterans' memorials, several Smithsonian museums, a performance at the Kennedy Center, and a riverboat cruise on the Potomac. The group also had personal visits with



PARTICIPANTS: Alger Delta – Annika Seaman; Cherryland Electric – Connor Bebb, Sam Surgalski; Cloverland Electric – Devin Livingston; Great Lakes Energy – Cassidy Bonar, Will Byl, Drew Graeber, Mackenzie Paulen, Elsa Puerner, Abbie Welch; HomeWorks – Becca Kirby, Blake Warchuck; Midwest Energy – Jeff Dickerson, Meagan Ruff; PIE&G – Trent Goudy, John Belusar; Thumb Electric – Alyssa Tyrrell.

Sen. Debbie Stabenow and U.S. Reps. Dan Benishek, Bill Huizenga, Justin Amash, the staff of Rep. Candice Miller, and Ways and Means Committee chair, Rep. Dave Camp.

At an election held in front of the U.S. Capitol building,

Drew Graber, a junior from Lake Isabella, earned the support of his peers to serve on the National Rural Electric Cooperative Association's Youth Leadership Council. He will return to D.C. in July to attend a youth conference that strengthens leadership and

public speaking skills.

Youth Tour participants are chosen by their co-op, who sponsors them on the trip. Learn more about co-op-sponsored youth programs at miYLS.com, and find more Youth Tour photos on facebook.com/youthleadershipsummit.

Scholarship Winners Announced

Charlotte Seeley and Jordon VanPamel have each won a \$1,000 scholarship from the Michigan Electric Cooperative Association (MECA).

Charlotte, daughter of Cherryland Electric members Jim and Andrea Seeley, graduated from Suttons Bay High School as salutatorian of her class. Active in sports, band, clubs and volunteering, she also had artwork published in a student art magazine. Charlotte will attend Michigan State University in the fall to study package design. Jordon is the son of Presque



Charlotte Seeley



Jordon VanPamel

Isle Electric & Gas Co-op members Scott and Bethany VanPamel and graduated from Hillman High School as valedictorian of his class. He received several academic recognitions and sports awards and was senior class president. Jordon plans to attend Saginaw Valley State University and pursue a career in sports medicine.

A total of 147 scholarship applications were received by MECA, which publishes *Michigan Country Lines* for the state's nine electric co-ops.

Notice to Large Commercial and Industrial Members

Public Act 295 allows for large Commercial and Industrial (C&I) accounts to self-direct their own Energy Optimization plans. For this year, a C&I member must have at least 1 megawatt (MW) of annual peak demand in 2011 (or 5 MW in aggregate) to qualify.

Details can be found at:

michigan.gov/mpsc/0,4639,7-159-52495_54478---,00.html or call your electric co-op for more information.

Need to change your *Country Lines* mailing address?



Contact your electric co-op—they maintain the mailing list. See page 4 for your co-op's contact information.

2011

ANNUAL REPORT

Revenue and Expenses

As of Dec. 31, 2011

Operating Statement	2011	2010
Electric Energy Revenue	\$ 85,476,845	\$ 58,516,542
Capital Credits Received from Associations	659,729	552,015
Total Operating Revenue	\$ 86,136,574	\$ 59,068,557
Generating Expenses	\$ 3,164,252	\$ 2,099,593
Cost of Purchased Power	48,033,879	32,037,314
Transmission Expense	6,070,419	4,102,588
Operations	3,271,999	1,872,081
Maintenance	4,959,060	3,223,264
Consumer Accounting and Collections	3,920,322	1,718,100
Customer Service	683,239	408,974
Sales Expense	171,193	155,650
Administrative and General	5,152,139	3,293,977
Taxes: Property	2,491,292	1,794,660
Taxes: Payroll and Business	166,921	101,956
Interest on Long Term Debt	2,202,231	1,866,363
Interest Expense: Other	914,057	680,337
Depreciation Expense	3,744,705	4,066,979
Total Operating Expenses	\$ 84,945,708	\$ 57,421,836
Operating Margins	\$ 1,190,866	\$ 1,646,721
Total Non-Operating Margins	\$ 953,275	\$ 916,383
Total Margins	\$ 2,144,141	\$ 2,563,104

Balance Sheet

As of Dec. 31, 2011

Assets

Net Utility Plant \$ 105,911,984

Current and Other Assets

General Fund Cash and Temporary Investments \$ 3,822,792
 Investments-Associated Organizations 10,527,607
 Accounts Receivable 9,477,659
 Refundable Power Costs 1,235,546
 Materials and Supplies 3,646,470
 Other Assets and Prepaid Expenses 11,105,901

Total Current and Other Assets \$ 39,815,975

Total Assets \$ 145,727,959

Liabilities

Long Term Obligations to RUS¹ and FFB² \$ 94,425,815
 Long Term Obligations to CFC³ 6,680,239
 Current and Accrued Liabilities 20,169,922
 Non-current Liabilities 1,360,021

Total Liabilities \$ 122,635,997

Equities

Membership Fees \$ 92,760
 Margins and Other Equities 22,999,202

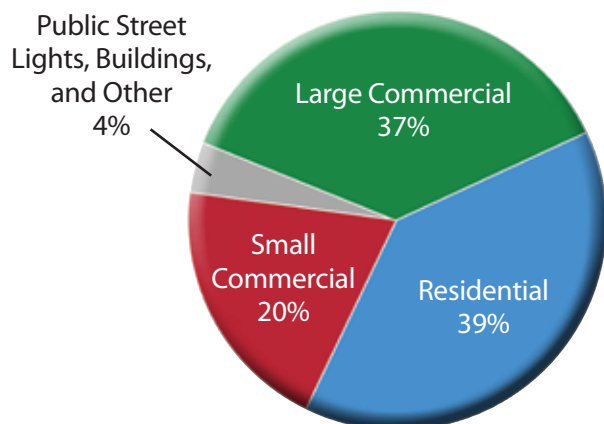
Total Equities \$ 23,091,962

Total Liabilities and Equities \$ 145,727,959

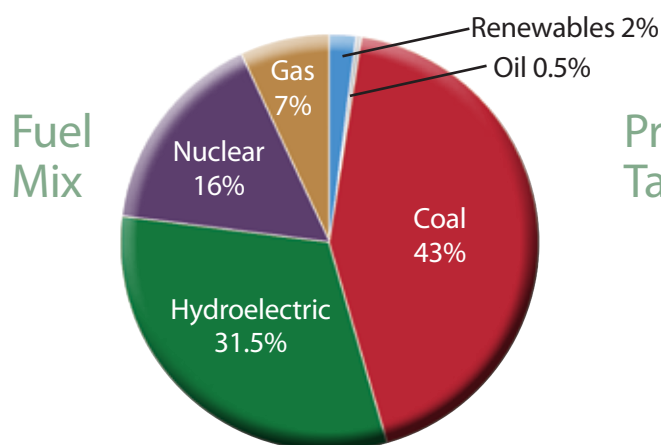
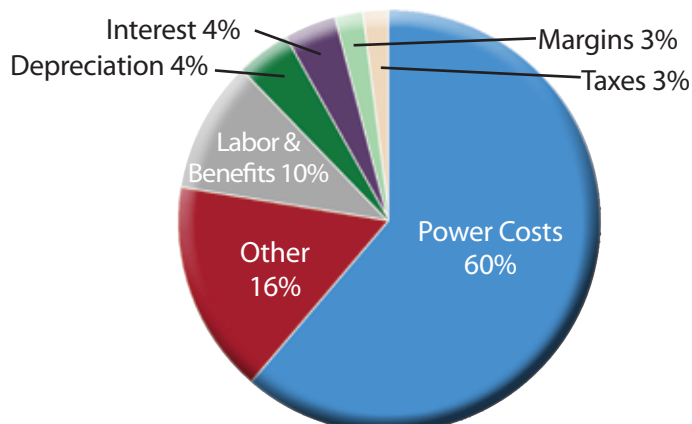
¹Rural Utilities Service ²Federal Financing Bank ³Cooperative Finance Corporation



Where Does it Come From? (Revenue)



Where Does it Go? (Expenses)



Property Taxes



Independent Auditor's Report

We have audited the balance sheets of Cloverland Electric Cooperative, Inc., as of Dec. 31, 2011 and 2010, and the related statements of revenue, equities, and cash flows for the years then ended. These financial statements are the responsibility of Cloverland's management. Our responsibility is to express an opinion on these statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing

the accounting principles used and significant estimates made by management, as well as, evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

Generally accepted accounting principles require that all majority-owned subsidiaries be consolidated in the financial statements with the parent company. If the financial statements of the cooperative had been consolidated with its majority-owned subsidiary, total assets and total liabilities would have increased by \$929,029 and \$402,775 for the years ended Dec. 31, 2011 and 2010, respectively.

In our opinion, except for the effects of not including the wholly-owned subsidiary's activity, the financial statements referred to here present fairly, in all material respects, the financial position of Cloverland as of Dec. 31, 2011 and 2010, and the results of its operations and its cash flows for the years

then ended in conformity with accounting principles generally accepted in the United States.

In accordance with *Government Auditing Standards*, we have also issued a report dated May 16, 2012, on our consideration of Cloverland's internal control over financial reporting and our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* and should be considered in assessing the results of our audit.

—Harris Group, May 16, 2012



First Mate Organizer Keeps Boats Ship-Shape

The owners of a family business created a new product for boaters and helped keep some jobs in the process.

Julie Irwin and her husband Todd discovered recreational boating about five years ago. As Great Lakes Energy members, they own a cottage on Torch Lake, where they caught boating fever.

A self-confessed “neat freak,” Julie was immediately frustrated with the lack of storage on boats for personal items like keys, cell phones or sunglasses. A duffle bag or a simple plastic bag works to bring supplies on-board, but many are neither compartmentalized or easy to stow securely.

Keeping her son’s prescription glasses in a cup holder on the boat made her uneasy, so she decided a container with pouches would do the trick—something to quickly, neatly and securely pack and store recreational supplies or personal items. However, such a product didn’t seem to exist.

The Irwins own the Delux Tents and Events company in Belleville and Lansing. It’s a thriving business started by Julie’s in-laws in 1966 that provides one-stop rental items such as tents, tables and chairs for family or commercial events.

Two years ago, they heard about a small

third-generation manufacturing company in Ann Arbor that closed. Well known for tents and awnings, they also produced canvas flags, boat covers and other custom canvas marine accessories, and the building still held a large stock of those items. The closing also stressed the company’s small workforce, who found themselves suddenly without jobs.

Seeing the advantage in acquiring the company’s stock of materials, plus adding a sewing staff with 50 years’ experience in producing and repairing canvas and marine products, the Irwins bought the company and put three of the employees back to work.

That’s when “everything just kind of fell into our laps and ‘the flow’ started,” Julie says.

She shared her boat organizer idea with the new employees. Together, they brainstormed a design and developed six- and eight-pocket versions of what today is called the “First Mate Organizer.”

“So many of the items needed, such as certain buckles and straps, they already had in stock,” Julie explains. “It was a fun, fun product to see unfold.”

Crafted from 100 denier nylon with a

urethane back coating and available in many colors, First Mate Organizer is water repellent, quick drying, and resistant to abrasion, rot and mildew. Open pockets provide places for smaller items such as eyeglasses, keys, flashlights or suntan lotion. A larger two-section pouch with a flap that snaps shut provides dry, secure storage for cell phones, cameras or magazines.

The design allows the organizer to be hung on a rail or fastened to a surface with clips or suction cups. To take the organizer along, you can simply fold it up, snap it together, attach the strap, and throw it over your shoulder like a tote bag.

While the product was designed for people who boat, Julie notes that others who find it useful now include campers, hunters and horse and motor home owners. Personally, she also uses one in her car.

The FirstMate is available online (see firstmateorganizer.com or call 877-824-7946) for \$34.99 (six-pocket) and \$39.99 (eight-pocket). To keep her employees busy, Julie explains, she purposely set the pricing so that people would want to buy. She emphasizes that the product helps fulfill a pledge to employees who came from the company the Irwins acquired.

“We told them we’d make work for them,” Julie says. “We’re trying our best to keep this wonderful state’s economy moving forward.”



Tell us about your favorite, or a unique, Michigan-made product. Email czuker@meca.coop or send to: **Country Lines**, 2859 W. Jolly Rd., Okemos, MI 48864. Be sure to share why you like it, or a unique story to go with it.

Building, Planting or Playing? Stay Clear of Power Lines

Electric utility workers see some new homes and other structures built in odd places—a home with the roof less than 8 feet from an existing power line; a swimming pool or barn right underneath a line.

“When you think about a builder hauling in materials and working in those areas, and then folks using the pool or getting too close to the roof, it’s pretty scary,” says Joe McElroy, safety director for the Michigan Electric Cooperative Association.

So, whether you’re a contractor or a do-it-yourselfer, use extra caution while working near overhead lines (never get closer than 10 feet), and consider their location in your planning. Also, call Cloverland Electric Cooperative (906-635-6800 or 800-562-4953) to let them know when work needs to be completed within 10 feet of power lines.

“Electricity flows through metal, wood, water and many other conducting materials, including human beings—all in an effort to reach the ground,” McElroy adds. “Small birds can sit on power lines unhurt

because they don’t create a path to the ground, but you and your ladder do.”

Further, a power line doesn’t have to be touched to be dangerous. Unless you are qualified to work around power lines, you must stay at least 10 feet away, or more. Since overhead lines are not insulated, touching a line or an object in contact with it can result in serious injury, or even death. Stay away, and contact your electric co-op.

The U.S. Occupational Safety and Health Administration advises that the best protection is lots of space. Don’t operate equipment around overhead lines unless you are authorized and trained to do so. Other safety tips include:

- ▶ Use a nonconductive fiberglass ladder.
- ▶ If objects (scaffolds, cranes) must be moved near the lines, appoint a worker whose only job is to observe the clearance between the lines and the object and warn others if that distance is not maintained.

A power line doesn't have to be touched to be dangerous.

▶ Never touch *any* downed power line, and never assume fallen lines are dead.

If you are in a vehicle that contacts with a power line, don’t leave the vehicle. As long as you stay inside and avoid touching outside metal, you should avoid an electrical hazard. If you need to exit to summon help or because of fire, jump out without touching any wires or the exterior, keep your feet together, and hop to safety.



Photo - iStockphoto.com

LEAVE THE POLE ALONE

What do yard sale signs, basketball hoops, satellite dishes and birdhouses have in common? They’re often found illegally attached to utility poles. But this isn’t just a crime of inconvenience. Safety issues caused by unapproved pole attachments put the lives of lineworkers and the public in peril.

Your local electric co-op line crews climb utility poles at all hours of the day and night, in the worst conditions, so anything attached to them can create serious hazards. Sharp objects like nails, bolts, tacks, staples or barbed wire can also puncture rubber gloves and other safety equipment, making lineworkers vulnerable to electrocution.

Co-op lineworkers have even reported poles used as support legs for deer stands, lights and carports. Any person placing items on poles also comes dangerously close to energized power lines with thousands of volts of energy pulsing overhead.

Unauthorized pole attachments also violate the National Electrical Safety Code. Utilities strictly follow this code, so please help keep lineworkers—and members of your community and family—safe. Don’t attach any of these dangerous items to utility poles.

Fixtures not belonging to the co-op or another utility will be removed by line personnel, and the co-op is not responsible for any losses if an item is damaged or destroyed during removal.



Teach Kids Safety, Too

Kids often don’t understand the outdoor dangers of electricity, but making them aware of overhead lines and these rules can help:

▶ *Never play or climb trees near power lines.*

▶ *Never climb a utility pole or tower.*

▶ *Never fly kites or model planes near trees and overhead lines.* If a toy gets stuck in a tree near the lines, don’t climb to get it. Call your local electric co-op or utility for help.

▶ *Don’t play on or around pad-mounted electrical equipment* (usually green boxes).

▶ *Never go into an electric substation*—not even to rescue a pet or retrieve a toy. Substations contain deadly, high-voltage equipment. Call your electric co-op or area utility instead.

▶ *Use caution before plugging in a radio or electrical gadgets outdoors.* Keep all electrical appliances at least 10 feet away from hot tubs, pools, ponds, puddles and wet surfaces.



Michigan On Guard Against Asian Carp

Photo - Great Lakes Fishery Commission

By Bob Gwizdz

The threat of Asian carp entering the Great Lakes involves so many different jurisdictions that most observers pin their hopes on a federal solution to avert an ecological nightmare. And while Michigan natural resources officials continue to press for federal action, they are not sitting on their hands waiting; they've gone on the offensive themselves.

"We have a plan in place for the detection and surveillance of Asian carp as well as what our response would be if they were detected," explains Tammy Newcomb, who

Two species of Asian carp—the silver and bighead—currently found in the Mississippi and Illinois rivers, are voracious eaters and grow fast. Silver carp (above) are also known to leap out of the water. Visit asiancarp.us to learn more.

heads up research for the Department of Natural Resources (DNR) Fisheries Division. "We're doing everything we can to keep them out of here and if we do get them in here, we're going to do everything we can to not only prevent them from spreading, but to extirpate them."

Everyone's main concern is that the carp, which are about 50 miles from Lake Michigan, will breach the electronic barriers in the Chicago Sanitary and Ship Canal and invade the Great Lakes. But there are other possible vectors.

"We are particularly concerned about bait fish," Newcomb said. "The DNR [see michigan.gov/dnr] has produced a brochure to help anglers tell Asian carp from other common bait fish, and we're developing a video to further that effort."

Newcomb's concern about Asian carp being introduced through bait buckets seems to be supported by the recent discovery of a

couple of large Asian carp that were found by Illinois Department of Natural Resources fisheries biologists in a Chicago park lagoon that is separated from the Chicago canal. Officials believe the fish wound up in the lagoon because anglers used them for bait years before.

Seizures of live Asian carp in January and February by Canadian officials at the Ambassador Bridge in Windsor—more than 20,000 pounds in three separate incidents—prove that the fish are being illegally transported through Michigan. A traffic accident involving any one of those trucks could have resulted in fish entering Great Lakes waterways.

Recently, Michigan conservation officers arrested fish farmers from Arkansas selling illegal grass carp in Michigan. And while that's a slightly different issue—grass carp were on the prohibited species list many years before the other Asian carp species were added—it points to the potential of fish entering the Great Lakes through illegal trade.

Observers are of two minds about the progress of federal action.

"As a member of the Asian carp coordinating committee, I have been pleasantly surprised by the amount of work being done on the federal side in coordination with the states," said Patty Birkholz, a former state senator who oversees the Michigan Department of Environmental Quality's Office of the Great Lakes.

But Erin McDonough, executive director of Michigan United Conservation Clubs, says federal action is too slow.

"This is an issue of immediacy," said McDonough, who believes Asian carp deserve the attention of the candidates in the upcoming presidential election. "We want to see the Army Corps of Engineers put into effect a separation of the watersheds in the Great Lakes Basin from the Mississippi River now."

McDonough praised recent bipartisan federal legislation offered by Sen. Debbie

Stabenow (D-Lansing) and Rep. Dave Camp (R-Midland) to speed up the process.

The Stop Invasive Species Act would require a federal action plan to stop Asian carp from entering the Great Lakes through a number of rivers and tributaries. If passed, the legislation would direct the Corps of Engineers to develop a plan to permanently separate Lake Michigan from the Chicago waterway system.

Said Camp: "This measure expedites the necessary hydrological separation study in order to protect the Great Lakes and the hundreds of thousands of jobs the Great Lakes support."

"It has become clear that Asian carp are migrating throughout the Great Lakes region, and efforts to stop the spread of this invasive species must now address every possible point of entry," Stabenow said. "We can't afford to wait." Besides Michigan, media outlets have reported Asian carp in Minnesota and South Dakota.

The bill also requires the Army Corps to submit a progress report to Congress and the President within 90 days of the law's enactment. The full plan would need to be completed within 18 months.

As the federal plan takes shape, Michigan officials continue working on their own initiatives. The DNR is adding an employee to help implement the strategic plan and coordinate efforts with other state and Canadian officials.

"On the state side, we have some real possible solutions that are forthcoming," Birkholz says. "We are spending millions of dollars to deal with this."

Although some pessimists say entry of Asian carp in the Great Lakes is a foregone conclusion, Newcomb says "they're absolutely wrong."

"We have a plan," Newcomb explains. "Anglers are a part of our plan. But hydrological and/or ecological separation from infected waters is the ultimate solution."

What About Those Asian Carp?

Answers from John Goss, federal Asian Carp director, White House Council on Environmental Quality.

Q: Why is an Asian carp invasion such a big deal? What economic, recreational and environmental dangers does it present to Michigan?

A: The migration of Asian carp toward Lake Michigan is one of the most serious invasive species threats facing the Great Lakes today.

Bighead and silver carp are voracious eaters, capable of eating 5 to 20 percent of their body weight daily. They consume plankton—algae and other microscopic organisms—stripping the food web of the key source of nutrients for small and big fish. Silver carp are known for leaping out of the water at the sound of boat or jet-ski motors, causing physical harm to people and property. They pose a threat to the recreational and fishing economies of the Great Lakes states.

Q: Almost every Michigan electric co-op service area touches at least one of the Great Lakes. The irreparable harm an Asian carp invasion would cause is of special interest to co-ops and their member-owners.

As the Asian carp director, what is your role and best plan for handling this threat?

A: As the White House Council on Environmental Quality Asian carp director and chair of the Asian Carp Regional Coordinating Committee (ACRCC), I lead the Obama Administration's work to create a cohesive and comprehensive federal, state and local strategy to make certain that Asian carp do not become established within the Great Lakes.

Since 2010, the Administration has invested over \$150 million to protect the Great Lakes from Asian carp. The scale of this effort is unprecedented for invasive species prevention and unifies federal, state and local actions.

The "2012 Asian Carp Control Strategy Framework" outlines the priority actions planned and under way to address this threat, including management actions to prevent introduction and establishment, and

research to develop permanent controls on its populations. The Framework can be found at asiancarp.us.

Q: Fishing by commercial crews and biologists at spots below the existing Chicago barrier have already removed 25,736 Asian carp (asiancarp.us) in March and April 2012.

Is there any evidence showing that an Asian carp population already exists in Lake Michigan?

A: There is no evidence that there is an Asian carp population established above the electric dispersal barriers or within Lake Michigan. All of the evidence shows we are succeeding in keeping Asian carp out of the Great Lakes. The ACRCC has been vigilant in monitoring the Chicago Area Waterway System (CAWS) through extensive fishing, netting and environmental DNA testing for any sign they are advancing. Last year, we found no live Asian carp in the CAWS above the barriers after more than 40,000 hours of netting, electrofishing and keen observation by experienced fisheries biologists.

The Asian carp population front in the Upper Illinois River is over 80 miles from Lake Michigan. This front has not moved since 2007, partially as a result of the intensive removal you just mentioned.

Q: Even though the Army Corps of Engineers has said they will reveal a faster action plan, many are concerned and confused about how long it's taking the government to act on preventing the Asian carp from entering the Great Lakes and why more action isn't being taken quickly.

What is your response, so that people can understand?

A: The Administration took early action to keep Asian carp from reaching the Great Lakes. We've invested over \$150 million in a successful strategy for keeping them out of the Great Lakes while the Army Corps studies a long-term solution.



Photo - Council on Environmental Quality

The U.S. Geological Survey is also making exceptional progress in developing and testing physical controls such as water guns, chemical control tools like selective toxins, and pheromone attractants. Some of these may end up being extremely effective against Asian carp.

Q: A recent Great Lakes Commission (GLC) study says separating these waterways is feasible, will be a safeguard against migration through Chicago's waterway, and can be done while preserving its benefits to Illinois and Indiana.

Can this plan work, and will the government use the GLC report to help form decisions on a good battle plan? Can it help grease the decision-making wheels?

A: The Army Corps has said that hydrologic separation will be one of the options it evaluates, and they will incorporate information generated by the GLC Study, as appropriate. It's important to remember that hydrologic separation and permanent barriers are only one set of alternatives. While this is an important alternative to consider, it is not the only one that warrants evaluation.

The GLC Study estimates the cost of separation to be between \$3.9 and \$9.5 billion and take at least until 2029 to complete. Some of the technologies under review through the Great Lakes Maritime Research Institute have the potential to be

Continued ►

Asian Carp Q&A, *continued*

implemented more quickly and in a cost-effective manner.

Q: A recent power outage and equipment failure resulted in a 13-minute lapse during which the existing electronic Asian carp barrier (near Chicago) was inoperable. Has the investigation shown whether any of these fish were present then? Does this accident make the issue more urgent, and can electronic/existing barriers keep them out forever?

A: Backup generators were activated at the affected barriers, as designed. However, a utility power surge prevented the generators from delivering power to the barriers. The Corps is vigilant in monitoring the barriers, and when they noticed the issue, on-site personnel manually reset the circuit breaker to allow generator power until utility power was restored.

The Monitoring and Rapid Response Work Group (MRRWG), a subset of the ACRCC, is comprised of various state and federal agencies that monitor the CAWS for Asian carp activity and make recommendations for fish suppression activities. The MRRWG conducted an assessment of fish presence at the barriers the next day. The area is regularly monitored for Asian carp, and we have no reason to believe there were any in the area during the brief outage. It is important to remember that the Asian carp population is still quite a distance from Lake Michigan.

Q: Patty Birkholz, director of Michigan's Office of the Great Lakes, has endorsed the "do-able solutions" presented by the Great Lakes Commission study.

What is Michigan's role in the Asian carp dilemma, and are you working with Birkholz or other officials on any specific plans?



Photo - Dave Kenyon/MI DNR

This Mississippi River bighead carp shows how big they can get. Averaging 30-40 pounds, some can grow to be over 100 pounds.

A: Michigan is one of the eight Great Lakes states on the Asian Carp Regional Coordinating Committee. The ACRCC is the body charged with coordinating the federal, state and local entities working together to stop Asian carp from getting to the Great Lakes. We work very closely with Patty Birkholz and she is great to work with. Patty and other Michigan Department of Environmental Quality officials are actively involved in all of the ACRCC actions.

Q: Some media reports say Illinois legislators and business owners do not favor permanently separating the waterways.

How much is politics a barrier to addressing this issue quickly?

A: I think everyone appreciates the urgency of protecting the Great Lakes, and we have a successful plan in place. It is true that not everyone agrees on what the long-term solution is for Asian carp. That is why the

Army Corps recently announced they are going to give Congress and the public the chance to review alternatives and choose a solution in 2013, much earlier than anticipated. They will release an assessment of the best options for keeping carp out of the Great Lakes, including estimated costs and mitigation requirements for each option. So in 2013, we can all decide which option to move forward with and get going with a more detailed project design and path for implementation.

Q: Michigan has a \$5 billion annual sport fishing industry, and experts say trying to control the Asian carp after it enters the Great Lakes is nearly impossible and much more costly than the high price of prevention.

Can you enlighten our readers on this?

A: We know from experience that it is difficult and expensive to deal with an invasive species after they have established. Right now, we have a unique opportunity to stop Asian carp from invading the Great Lakes through the coordinated federal, state and local efforts. This effort is paying off. All of the evidence is showing that our strategy is successful, and giving us the time necessary to develop and implement a permanent solution to controlling Asian carp and other aquatic invasive species.

Q: As a fisherman, what is your personal experience with Asian carp?

A: I love to fish and have experienced salmon, perch and walleye fishing at its finest in Lake Michigan and Lake Erie. In Indiana, Asian carp are threatening some of my favorite small mouth bass streams like Sugar Creek and Blue River.

I am determined to protect our native fish populations from an Asian carp invasion.

Q: Is there anything regular citizens can do to help?

A: Absolutely. Public involvement is essential to preventing the spread of Asian carp to the Great Lakes. It is important to stay informed and participate in public meetings and comment opportunities.

The best way to stay on top of the latest information is to check asiancarp.us frequently. Here are some other ways you can help:

- ▶ Make sure you don't move live fish from one location to another.
- ▶ Never use wild-caught bait fish in waters other than where they came from.
- ▶ Learn the difference between juvenile Asian carp and juvenile gizzard shad, which look nearly identical (the Michigan DNR has a helpful brochure at michigan.gov/dnr).
- ▶ Drain lake or river water from live wells and bilges before leaving any body of water.
- ▶ Learn what to do if you find an Asian carp in the Great Lakes or its tributaries.
- ▶ Spread the word.



Photo - Great Lakes Fishery Commission

Resources & Maps:

- Video of jumping Asian carp (Great Lakes Fisheries Commission): glfc.org (click "Multimedia" & "Videos")
- asiancarp.us
- MI Dept. of Natural Resources: michigan.gov/dnr
- Illinois Dept. of Natural Resources: dnr.state.il.us/fish/

Visiting Trial Gardens Can Help You Choose Plants

Tired of using the same old plants in your garden and containers every year? Tired of buying plants that look great at the garden center but perform poorly at home? Well, think about taking a ride to a trial or display garden in your area.

Several steps take place when a new plant variety is developed, and before it's available for purchase. Once a plant breeder has a stable new variety, they sell it to a plant propagator who grows large quantities of it. These small plants are in turn sold to a grower who transplants them into cell packs or individual pots and grows them. Then the grower sells them to plant wholesalers, retailers and mail-order houses where you are able to buy the plant.

Along the way, a plant breeder or propagator wants to make sure that their new variety is fit for your garden. This is where trial gardens enter the picture.

Michigan State University (MSU) has extensive trial gardens for annuals, vegetables, native plants and herbaceous perennials. Being located in USDA Zone 5 puts their gardens in the same growing zone as most of the state, which is good news for home gardeners. Over 500 different cultivars are submitted by breeders, seed companies and nurseries to be tested in the MSU gardens. "We test plants that are suitable to grow in Michigan and evaluate these plants using a five-point system," says Katie McCarver, MSU trial garden manager. "One means the plant died, and five means the plant is awesome in terms of producing nice blooms, pest resistance, and being true to habit."

Evaluation starts two weeks after the plants are put in, around May 15-20. Then, they are evaluated every two weeks until the last frost. Each evaluation takes a whole day for McCarver and Art Cameron, MSU garden director, to assess all the varieties. Plant performance is dependent on a number of factors, including soil and weather conditions.

"Companies are looking for honest evaluations," McCarver explains. "I have to determine whether it's a failure in our growing conditions or breeding that causes a plant

Discover exciting new plants that will thrive in your garden.



Top: View hundreds of container plants on trial at the MSU annual plant trial garden.

Bottom: Michigan State University (MSU), in East Lansing, has one of the largest trial gardens in the state that is open to the public.

to die. Some plants just don't perform well."

Michigan State is also an All-American Selections (AAS) Trial Garden. "Think of All-American Selections as the Good Housekeeping seal of approval for plant varieties," comments AAS board member, Jenny Kuhn. AAS has trial gardens throughout the state and the country, and "Tested Nationally and Proven Locally" is their new tagline. Kuhn is also product specialist at C. Raker and Sons, a plant propagator in Litchfield, MI, which also opens its trial gardens to the public.

"Often, big-box stores sell plants that are bred to look well on their shelves to attract buyers," Kuhn adds. "But these plants do not necessarily do well in your garden. In AAS trial gardens, we are looking for plants that look well at retail but also perform in peoples' gardens." The AAS website offers both lists of its winners and trial gardens throughout the state.

In Michigan, plants are starting to look their best by mid-summer, so mid-July through mid-August are the best times to visit these test gardens. While you're there, Kuhn

recommends making notes of variety names that appeal to you, since most local garden centers are happy to order them for you.

For more information on visiting MSU's gardens, see hrt.msu.edu/our-gardens. There is a good brochure and map you can pick up at the information booth (open June through August) near the garden visitor parking lot.

If you can't visit the MSU gardens, don't worry—Katie McCarver posts early favorites on the web in mid-July, and a full report in October. You can also find last year's top-rated plants at gardens.hrt.msu.edu/ by clicking "Top Performers" in the left sidebar.

Rita C. Henehan is an author, freelance writer and photographer. For a complete list of public display and trial gardens throughout Michigan, and other gardening information, visit her website at michigangardenerscompanion.com.



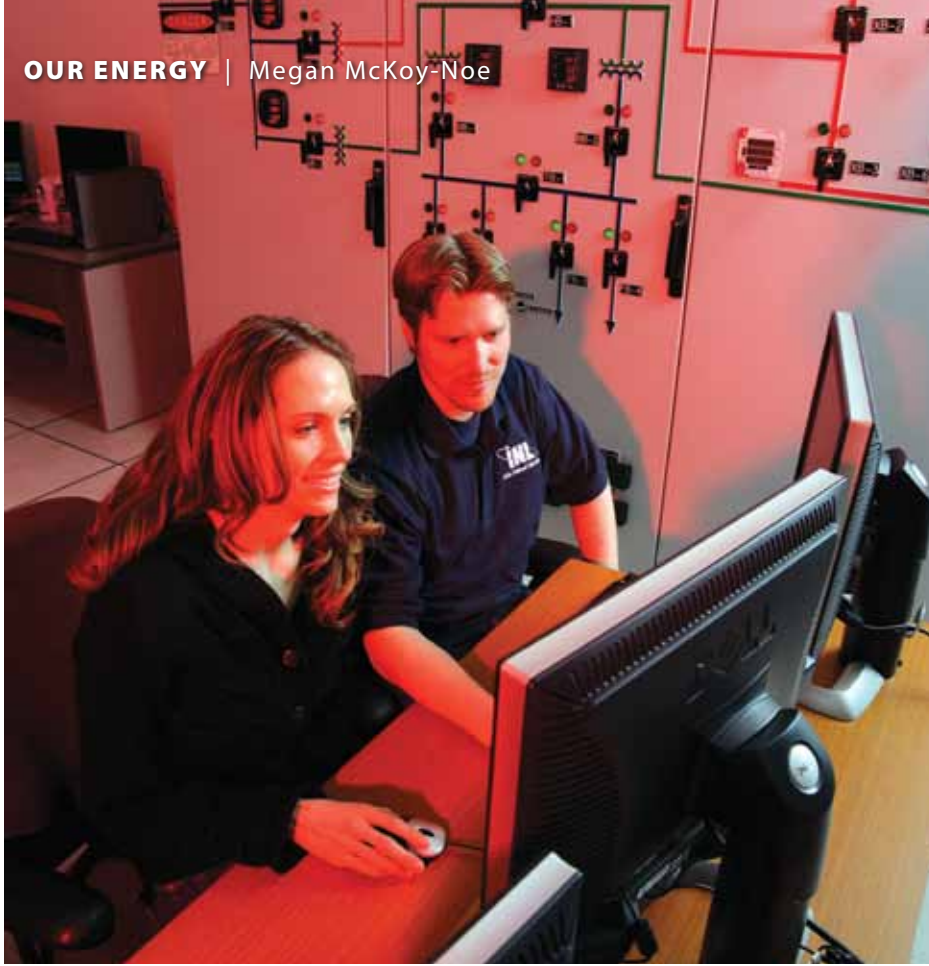


Photo - Sandia National Labs

Cyber security specialists from one of the U.S. Department of Energy's national labs conduct research on an electric utility Supervisory Control and Data Acquisition system.

card are required to use one of the self-serve options, including online, entering payment information themselves through the automated phone system, or using payment kiosks in the co-op's lobbies.

Computers rarely get hacked, Manting says, but instead people are often tricked into revealing personal information. "So, by removing our people from the transaction, we've greatly reduced the potential for criminals to access our systems."

Of note is that none of Michigan's electric co-ops sell member information to others, and many are updating or creating cyber security plans. And, while all the co-ops take precautions to protect their members' information, not all use the CRN plan.

For example, at Cherryland Electric Cooperative (over 34,000 members) in Grawn, IT Administrator Steve Weaver says, "In addition to the standard best practices of anti-virus and anti-Spyware installed on computers, encryption of members' data, and enterprise class firewalls installed, we use a service that monitors all inbound and outbound traffic looking for and blocking suspicious activity."

At Midwest Energy Cooperative in Cassopolis (over 30,000 members), they are currently doing a major information technology (IT) risk audit that will result in some significant changes. "We always want to be sure we're doing all we can to protect our members' information against identify theft and other threats that can result from our dependence on technology," says Candy Riem, member services manager. "The audit is intended to evaluate and improve the security of personal information and review all internal and external processes, systems and staff that impact daily operations. This action will help us identify risks and deficiencies, so that we are well-positioned to serve our members." Riem expects a formal strategic plan by the end of the year.

"At this time, we do have a firewall that is tested on a regular basis for potential threats," Riem adds. "We also encrypt certain pieces of our members' information in the system to help prevent identify theft if someone were to breach the system."

Great Lakes Energy, with over 101,000 members, uses plans from several sources, says Mike Youngs, director of information security and business continuity. "We use a variety of processes and technology, including

Cyber Security Patrols

Electric co-ops enhance efforts to protect their members' personal data and the reliability and security of their electric distribution systems.

Your home probably has several security features—door locks, bolts, and an alarm system. When it comes to cyber security, electric co-ops follow the same principle—building and reinforcing multiple layers of protection to safeguard your personal data from attacks.

Securing digital data on an electric distribution system isn't a "once and done" job. It's a continual process of evaluating and addressing risks, tightening measures, planning, and evaluating again. While it's difficult to thwart a determined computer hacker, with constant vigilance electric co-ops can significantly minimize the possibilities.

"Keeping our members' information secure is a top priority," explains Tom Manting, manager of finance and information technology at HomeWorks Tri-County Electric Cooperative in Portland, MI. "Technology constantly changes, requiring a 'continuously improving' approach towards cyber hazards."

HomeWorks Tri-County has over 22,000 members, and represents a national trend of cooperatives bulking up cyber security

with tools from the Cooperative Research Network (CRN), the research arm of the National Rural Electric Cooperative Association (NRECA). CRN's "Guide to Developing a Risk Mitigation and Cyber Security Plan," and supporting documents released in 2011 with funding support from the Department of Energy (DOE), help utilities of all types develop a process to shore up cyber defenses.

"Electric cooperatives have made substantial progress in cyber security without additional regulation because they owe it to their members to protect system reliability and prevent unauthorized access to personal information," explains Glenn English, NRECA's CEO.

Manting agrees, and at HomeWorks special precautions are taken to protect members' information in several ways. "Members are required to positively identify themselves when calling us, and we've completely purged our files of all credit card information," he explains. "Social Security numbers are also encrypted." And, members who wish to pay their energy bill with a credit

encryption, access control, malware protection and monitoring,” Youngs says.

Security Sweep

Electric co-ops have been working with the DOE, North American Electric Reliability Corporation (NERC), Federal Energy Regulatory Commission (FERC), U.S. Department of Homeland Security, the Obama administration, and the electric utility industry to strengthen cyber security. An assault on a co-op, for example, could be a prelude to, or part of, a coordinated cyber strike on the country’s power grid as a whole that could impact electric reliability. Last year, NERC, the nation’s electricity reliability watchdog, conducted an exercise dubbed “GridEx” to identify cyber security concerns and encourage utilities and government agencies to work together to resolve the issues uncovered.

“GridEx provided a realistic environment for organizations to assess their cyber response capabilities,” observes Brian Harrell, NERC’s manager of critical infrastructure protection standards. “Through the interaction, participants forged relationships across the cyber security community.”

A report on the test notes most utilities have adequate response plans in place, but more training and updated guidelines were suggested. Communication difficulties were also identified—a problem NERC will confront by developing outreach strategies for secure information sharing.

To further pinpoint cyber vulnerabilities, a seven-year utility system security study was conducted by the DOE’s Idaho National Laboratory (INL). Poor “patch management” was cited as the biggest utility weakness—patches fix publicly-known security problems.

To prevent would-be hackers from discovering security lapses, teams of grid guardians routinely scour electric distribution systems to find and fix weak spots.

“I look for vulnerabilities in control system software,” remarks May Chaffin, an INL cyber security researcher. “I try to get them repaired before someone takes advantage.”

Lessons learned from the GridEx activity and researchers like Chaffin have been incorporated into CRN’s cyber security toolkit. Based on best practices developed by the National Institute of Standards and Technology (NIST) and other industry groups, the guide focuses on procedures co-ops should adopt to continuously monitor cyber threats and enhance risk preparedness.

“CRN’s cyber security resources are well-rounded tools that helped make our existing security plan more complete and serve as

references for future projects,” Manting adds.

Andy Bochman, an energy security lead for IBM, praises CRN’s efforts. “While the [IT] community is waiting for [practical] implementation guides from NIST, CRN’s offering breaks things down into actionable, prioritized parts. It allows co-ops to travel down a well-marked path toward better cyber security and risk mitigation planning in the age of the smart grid.”

Regulating Security

The possibility of cyber mischief undermining the automated digital technologies used by utilities has Congress, the White House, and regulators considering the right balance of security and emergency response initiatives.

“There is no question that there will be some kind of legislation,” predicts English. “It’s important that policymakers make a distinction between what’s appropriate security for bulk power versus distribution systems. The question is whether what’s put forward makes sense, if it will be overly burdensome, and if it will make electricity less affordable for our members.”

In 2010, the U.S. House considered the

Grid Reliability and Infrastructure Defense Act. A similar measure, the Cyber Security Act of 2012, was introduced to the Senate in February. Both bills would provide the federal government with more power to draft cyber security standards, but would weaken the NERC/FERC partnership that allows industry stakeholders to help ensure standards are technically sound and able to be properly implemented. Cyber security experts at NRECA believe any legislation should focus on encouraging federal agencies to routinely provide actionable, timely intelligence about cyber threats and vulnerabilities to utility industry experts.

“Hackers are getting smarter, and for some, much of the fun is the challenge of beating your system,” observes Maurice Martin, CRN’s program manager. “Co-ops understand cyber security isn’t a one-time thing. Improved communications about potential trouble remains key to this effort.”

Electric co-ops are building cyber barricades and robust plans for addressing current and future dangers. But in a rapidly evolving cyber environment, there’s no such thing as perfect security.



Sandia National Laboratories computer scientists Ron Minnich (foreground) and Don Rudish have successfully run over 1 million Linux kernels as virtual machines, an achievement that will allow cyber security researchers to more effectively observe behavior found in malicious botnets (a collection of compromised computers, each of which is connected to the internet). They used Sandia’s Thunderbird supercomputing cluster for this demonstration.



Rhubarb Custard Pie

Zucchini Bread

3 large eggs
 1 c. vegetable oil
 2 c. brown sugar
 1 t. vanilla
 2 c. grated zucchini squash
 1/4 c. grated carrots
 3 c. flour
 1/2 t. salt
 3 t. cinnamon
 1 1/4 t. baking powder
 1 1/2 t. baking soda
 1 c. chopped nuts

Set oven to 350°. Spray two 9 x 5-inch loaf pans and set aside. In a large bowl, mix eggs, oil, sugar and vanilla. Add zucchini and carrots to mixture. Sift flour, salt, cinnamon, baking powder, and baking soda together in separate bowl and add dry mixture to zucchini mixture. Stir in nuts. Pour in sprayed pans. Bake 1 hour or until done. Cool 3 hours before slicing.

Deborah Black, Sandusky

Dill & Red Onion Vinaigrette

1/2 c. vegetable oil
 1/4 c. red-wine vinegar
 1/4 c. red onion, minced
 1 1/2 T. fresh dill, chopped
 1 T. fresh parsley, chopped
 1 t. dijon mustard

salt and freshly ground pepper to taste

Combine ingredients in jar or bottle that can be tightly sealed. Shake well before each use. Will keep for several weeks refrigerated.

Bonnie Bourn, Constantine

Summer Bread Salad

Bread:

1 T. olive oil
 1 T. butter
salt and fresh ground pepper, to taste
 1-2 cloves garlic, minced
 5-6 slices of bread, 1/2- to 1-inch cubes

Heat olive oil and butter in skillet. Add salt, pepper and garlic and stir for about 1 minute, until garlic is soft and fragrant. Add bread cubes and toss. Transfer to a small pan and bake at 300° for about 10 minutes, or until lightly toasted and browned.

Salad:

3 T. white balsamic vinegar
 1/4 c. olive oil
 1 small onion, minced
 1/2 lb. green beans, trimmed to 1-inch pieces, steamed 2 minutes and cooled
 2 small each zucchini and yellow summer squash, sliced, steamed 3 minutes and cooled

Garden Fresh

It's that time of year—when fruits and vegetables are looking and tasting their best. Whether you have your own garden, or shop at a local farm market, these recipes will inspire you to make the most of your produce.

Rhubarb Custard Pie ("Mom Style")

4 c. rhubarb, sliced into 1/2-inch slices
 1 1/2 c. sugar
 3 T. flour
 1/2 t. nutmeg

1 T. butter, room temperature
 2 eggs, beaten well
 9-inch unbaked pie crust

Preheat oven to 450°. Mix butter and 1 cup sugar until creamy. Blend in nutmeg and flour. Blend in eggs and set aside. Place rhubarb into pie crust. Pour mixture evenly over rhubarb. Bake for 10 minutes, then drop oven to 350° for 30 minutes or till lightly brown. Serve cold or room temp with whipped topping or ice cream.

Karen Richards, Wayland

Lasagna Primavera

2 10-oz. pkgs. chopped, frozen spinach
 15 ozs. ricotta cheese
 8 ozs. lasagna noodles
 1 26-oz. jar spaghetti sauce with mushrooms
 3 carrots, sliced 1/4-inch thick
 1 zucchini squash, sliced 1/4-inch thick
 1 summer squash, sliced 1/4-inch thick
 1 c. broccoli florets
 12 ozs. mozzarella cheese
 1/2 c. parmesan cheese

Thaw and drain spinach, mix with ricotta and set aside. Bring noodles to boil and cook 5 minutes, add carrots and cook 2 more minutes; add remaining vegetables and cook another 2 minutes or until noodles are done. Drain all. Spread 1/3 of sauce in bottom of 9x13-inch pan. Layer half the noodles, half cooked vegetables, half spinach mixture then half the mozzarella. Repeat with remaining noodles, vegetables, spinach mix and mozzarella, then top with remaining sauce. Sprinkle with parmesan and bake at 400° for 30 minutes. Let stand 10 minutes before cutting. If you prepare ahead and refrigerate, bake for 1 hour at 350°. Serves 10.

Victoria Nelson, Grand Rapids



Zucchini Bread

Photography by: 831 Creative

2 c. ripe cherry tomatoes, halved
1 cucumber, peeled, sliced and cut into
1/2-inch pieces

1/4 c. fresh basil, chopped
1/4 c. fresh parsley, chopped

1 t. salt and pepper, to taste

Combine vinegar, olive oil and onion in bowl. Set aside to allow onion to soften. In large bowl, mix beans, zucchini, squash, tomatoes, cucumber, herbs and seasonings. Drizzle with vinegar/oil mixture. Let stand for flavors to meld. Adjust salt and pepper accordingly. Toss salad with prepared bread right before serving. Serves 6-8.

Jennifer Sylvester, Sand Lake

Stuffed Zucchini

4 small zucchini

1/2 lb. cheddar cheese, grated

1 T. butter

1/2 t. lemon juice

1/2 t. granulated garlic

Prepare the zucchini by washing, cut in halves lengthwise. Hollow out, leaving 1/4 inch on all sides. Mix cheese, butter, lemon and garlic. Fill zucchinis with mixture. Cut a thin slice from bottom of each zucchini and place on baking sheet. Bake at 350° for 20 minutes or until bubbly. Serves 8.

Sherry Fisher, Paradise

Fresh Tomato Salsa

12 large tomatoes, peeled, cut into chunks

4 medium sweet onions, thinly sliced

4 stalks celery, sliced

2 green peppers, sliced

2 T. salt

2/3 c. sugar

1 c. cider vinegar

2 t. mustard seed

Combine all ingredients and mix until sugar is dissolved. Excellent with eggs, hash browns and many other things. Store in refrigerator. Makes about 2½ quarts.

Janice Harvey, Charlevoix

Summer Garden Medley

1 medium zucchini, sliced

1 medium yellow summer squash, sliced

1 medium onion, chopped

1 ear fresh sweet corn kernels

1 large tomato, cut into 8 wedges

1 T. chopped fresh parsley

1 clove garlic, minced

1 t. dried Italian seasoning

3/4 t. fine sea salt, divided

1/4 t. freshly ground black pepper

2 t. olive oil

2 T. butter, cut into parts

2 fresh basil leaves, chopped

Lightly coat bottom of 9x9x2-inch metal baking pan with olive oil. Swirl pan so bottom of pan is evenly coated. Arrange first five ingredients in pan. Sprinkle with parsley, garlic, Italian seasoning, 1/2 teaspoon salt, and pepper; dot with pats of butter. Prepare grill at 300°. Place pan on grill grate over direct heat. Grill, covered with grill lid, for 15 minutes. Turn vegetables over. Add onion and continue grilling for 5 minutes or until vegetables are tender. Lightly season tomatoes with remaining salt and add to pan; sprinkle basil on tomatoes. Cook another 3 minutes, just until tomatoes begin to become tender and warmed through. Serves 4.

Marilyn Partington Frame, Traverse City

Eggplant Caponata

1/4 c. olive oil

1 large eggplant, seeded, skinned and cut into

1/2-inch cubes

1/4 c. celery, chopped

1 clove garlic, chopped

1½ c. diced, seeded tomatoes

2 T. capers, rinsed and drained

3 T. red wine vinegar

1/2 c. fresh mixed herbs, chopped

1/2 c. black olives, chopped

salt and pepper, to taste

In large nonstick skillet, heat olive oil over medium heat. Add eggplant and celery; cook for 8 minutes, turning occasionally. Add garlic, tomatoes, capers, black olives, vinegar and

herbs. Heat for 2 minutes. Remove from heat; add salt and pepper to taste. Serve warm with crusty bread. Top with goat cheese, if desired. Lasts up to 5 days covered in refrigerator.

Eva Braganini, Mattawan

Fresh Yellow Squash Casserole

1 lb. or 3 medium yellow squash, sliced thin
with skins on

1/4 c. melted butter

1/2 green pepper, sliced or diced

1/2 c. onions, sliced or diced

3/4 c. mayonnaise

1 T. sugar

1 c. shredded cheddar cheese

Place all vegetables in sprayed 2-quart casserole; add butter, salt and pepper and toss to coat everything. Mix mayonnaise and sugar and spread over vegetables. Bake at 375° for 45-55 minutes. Sprinkle with cheddar cheese and bake an additional 10 to 15 minutes or until cheese is golden.

JoAnn Gach, Spruce

Zucchini-Tomato Soup

2 qts. tomatoes, peeled

2 c. zucchini, peeled and cut into chunks

1 c. chopped onion

salt and pepper, to taste

ham or sausage, cubed (optional)

celery, chopped (optional)

Bring all ingredients to boil; simmer about an hour. Zucchini will be opaque.

Martha Zahn, Interlochen



Lasagna Primavera

SUBMIT YOUR RECIPE! Contributors whose recipes we print in 2012 will be entered in a drawing. We'll draw one winner in December and pay their January 2013 electric bill (up to \$200) as a prize.

Thanks to all who sent in recipes! Upcoming: Please send in **TRICK-OR-SWEET** recipes by Aug. 10 and **TAKE-ALONG DISHES** by Sept. 10. Mail to: *Country Lines Recipes*, 2859 W. Jolly Rd., Okemos, MI 48864; or email recipes@countrylines.com.

Capital Credit Allocation Tops \$2 Million Again

Watch for your capital credit allocation notice on your August bill.

Cloverland Electric Cooperative's objective is service and not profit. Any profits or margins earned are allocated to each member's account as capital credits. Your allocation is based on the amount of

represents your share of about \$2.1 million in operating margins realized by the co-op in 2011. The second line shows the cumulative unretired capital credits in your account.

Capital credits represent the operating capital provided by the membership to the co-op. These credits help make it possible for us to secure loans, improve service reliability, and make infrastructure improvements. They are retired and returned to you over time.

In the fall, your board of directors will review the co-op's financial condition and decide the amount of capital credits to retire and return to members. Last year, the board approved a refund of \$1 million.

When a capital credit refund is authorized, members are notified through this magazine.

Found Money

Last year, over 5,000 capital credit checks were returned by the postal service. If you know someone who had electric service with Cloverland Electric Cooperative and then moved out of the area, let them

know they may be entitled to a capital credit check. This is one of the many reasons why we encourage members to keep their contact information current.

A convenient change of address form and a list of frequently asked capital credits questions is available at cloverland.com.



electricity you purchased. The unretired capital credits in your account represents your ownership equity in the co-op.

Your August bill will contain a printed statement confirming the capital credits allocated to your account. The first line

Service Spans Five Decades

From officiating at over 200 weddings as a "Justice of the Peace" to serving on Cloverland Electric Cooperative's Board of Directors, Carl Eagle has served in many leadership roles over the years.



Carl Eagle

He has now officially retired from both roles. This spring he decided not to seek another term on the co-op's board of directors. "I would like to thank all members for their support. It's been a privilege to serve," Eagle says.

He was elected as a Cloverland director in District B in 1961. During his 51-year tenure, he held all of the officer positions. He's also served as vice-president and president on the Michigan Electric Cooperative Association Board of Directors.

He earned his Credentialed Cooperative Director and Board Leadership certificates. A life-long learner, he says, "I've been going to school for over 40 years."

Born in 1931, he is the owner of Eagle Sales, a farm equipment business established in 1963. He and his wife, Ann, reside in Sault Ste. Marie and are blessed with three children, six grandchildren, and five great-grandchildren.

When he's not talking tractors, riding horses or dancing, he's serving as chaplain for VFW Post 3676 and American Legion Post No. 3.

Knowing where to be and when can be challenging, but he claims his *tried and true* reminder method has kept him on schedule for over 50 years, "I just tell Ann," he says with a chuckle.

"Carl has served the co-op, its member-owners, and employees well," says Board Chairperson Bob Schallip. "He believes, and more importantly, lives the cooperative principles. We'll not only miss his leadership, but his ability to lighten any mood with a joke from his endless repertoire."

— Wendy Malaska

Co-op Names & Faces

Gordon Neill (L) was hired as an apprentice lineworker and will work for our Newberry division.
Patrick Savoie (R) joined the co-op as a system controller.
Ken Casperson was promoted to engineering technician.
Roger Line was promoted to maintenance foreman.



STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

NOTICE OF HEARING FOR THE CUSTOMERS OF CLOVERLAND ELECTRIC COOPERATIVE CASE NO. U-16425-R

- Cloverland Electric Cooperative requests Michigan Public Service Commission approval to reconcile its 2011 power supply cost recovery costs and revenues.
- The information below describes how a person may participate in this case.
- You may call or write Cloverland Electric Cooperative, 2916 West M-28, Dafter, Michigan 49724, or 725 East Portage Avenue, Sault Ste. Marie, Michigan 49783 (800) 562-4953 for a free copy of its application. Any person may review the application at the offices of Cloverland Electric Cooperative.
- The first public hearing in this matter will be held:

DATE/TIME: August 2, 2012, at 9:00 a.m. This hearing will be a prehearing conference to set future hearing dates and decide other procedural matters.

BEFORE: Administrative Law Judge Theresa A. Sheets

LOCATION: Michigan Public Service Commission, 6545 Mercantile Way, Suite 7, Lansing, Michigan
The Mercantile Way building sustained flood damage and remains closed until further notice. Please consult the Michigan Public Service Commission website at: michigan.gov/mpsc for updates on hearing locations or call 517-241-6060.

PARTICIPATION: Any interested person may attend and participate. The hearing site is accessible, including handicapped parking. Persons needing any accommodation to participate should contact the Commission's Executive Secretary at (517) 241-6160 in advance to request mobility, visual, hearing or other assistance.

The Michigan Public Service Commission (Commission) will hold a public hearing to consider the April 30, 2012 application of Cloverland Electric Cooperative (Cloverland) to reconcile its 2011 power supply cost recovery (PSCR) costs and revenues. With respect to its Edison Sault legacy service territory, Cloverland represents that it experienced a total PSCR cumulative underrecovery of \$1,213,416 as of December 31, 2011. With respect to its Cloverland legacy service territory, Cloverland represents that it experienced a total PSCR cumulative underrecovery of \$20,129, as of December 31, 2011. Cloverland proposes to roll-in the cumulative underrecoveries into its 2013 PSCR plan case. On April 4, 2012, Cloverland filed a Motion to Suspend its Times Interest Earned Ratio (TIER) ratemaking filing requirement for the 12-months ended December 31, 2011.

All documents filed in this case shall be submitted electronically through the Commission's E-Dockets website at: michigan.gov/mpscedockets. Requirements and instructions for filing can be found in the User Manual on the E-Dockets help page. Documents may also be submitted, in Word or PDF format, as an attachment to an email sent to: mpscedockets@michigan.gov. If you require assistance prior to e-filing, contact Commission staff at (517) 241-6180 or by email at: mpscedockets@michigan.gov.

Any person wishing to intervene and become a party to the case shall electronically file a petition to intervene with this Commission by July 26, 2012. (Interested persons may elect to file using the traditional paper format.) The proof of service shall indicate service upon Cloverland's attorney, Bret Totoraitis, at Dykema Gossett PLLC, Capitol View, 201 Townsend Street, Suite 900, Lansing, Michigan 48933.

Any person wishing to make a statement of position without becoming a party to the case, may participate by filing an appearance. To file an appearance, the individual must attend the hearing and advise the presiding administrative law judge of his or her wish to make a statement of position. All information submitted to the Commission in this matter will become public information: available on the Michigan Public Service Commission's website, and subject to disclosure.

Requests for adjournment must be made pursuant to the Commission's Rules of Practice and Procedure R 460.17315 and R 460.17335. Requests for further information on adjournment should be directed to (517) 241-6060.

A copy of Cloverland's request may be reviewed on the Commission's website at: michigan.gov/mpscedockets, and at the offices of Cloverland Electric Cooperative, 2916 West M-28, Dafter, MI or 725 East Portage Avenue, Sault Ste. Marie, Michigan 49783. For more information on how to participate in a case, you may contact the Commission at the above address or by telephone at (517) 241-6180.

Jurisdiction is pursuant to 1909 PA 106, as amended, MCL 460.551 et seq.; 1919 PA 419, as amended, MCL 460.54 et seq.; 1939 PA 3, as amended, MCL 460.1 et seq.; 1982 PA 304, as amended, MCL 460.6h et seq.; 1969 PA 306, as amended, MCL 24.201 et seq.; and the Commission's Rules of Practice and Procedure, as amended, 1999 AC, R 460.17101 et seq.

June 7, 2012

Summer Fitness for Bodies and Brains



Photo - iStockphoto.com

It's July...do you know where your kids are? According to a new report, too many are indoors, eating junk, and losing ground in school.

Pointing to a century's worth of research, the authors of "Healthy Summers for Kids: Turning Risk into Opportunity," reveal that while summer may seem like a time when kids are particularly healthy and active, evidence shows that in a country with an obesity epidemic, summer is a season when K-12 students are gaining more weight as well as falling further behind in learning.

The problem is even more pronounced in poor communities, where fewer young people have opportunities to learn and practice essential skills. While most kids lose about two months of grade level equivalency in mathematical computation skills, low-income youth also lose more than two months in reading achievement, despite the fact that

teachers and parents—who offered their top 10 tips:

1. Read, read, read! There is

no simpler, more enjoyable way to keep that brain in gear. Your local library can be one of your best resources for plugging kids into the appropriate grade-level reading books and encouraging reading with the help of summer reading programs.

2. Volunteer. Help out at a local veterinarian's office, nature center, church or museum.

3. Grow a garden. Journal about it and learn to cook some of the harvest.

4. Find a teacher. Summer classes can boost the skills of struggling learners or enrich and accelerate learning in areas where kids show a special interest. Choose from formal summer programs, private tutors or go cyber! The options for online

7. Join 4-H. Clubs are located in every corner of Michigan, involving more than 200,000 youth (aged 5 to 19) from major cities, suburbs, towns and rural communities. Call 888-MSUE-4MI (1-888-678-3464) and enter the first five letters of your county's office. Ask to speak with someone about joining 4-H.

8. Go to camp! Every kid should spend time at camp. Michigan organizations offer hundreds of camps on most any theme and in every price range, and some even offer financial help or scholarships for attending. Google it or search kidscamps.com/summer_camps/michigan-summer-camps.html

9. Take day trips. Low-cost day trips not only get the kids outside, but are a great way to keep them learning through lazy summer days. Get kids involved in planning mileage, routes, gas consumption, and other parts of any trips you take. Then, make a journal or photo gallery about the trip. If you can afford to travel farther, visit a place your child has read about or will be learning about in the coming year. It's a great way to prepare students for upcoming studies and actively engage in their summer trips.

10. Go online—with limits. The internet provides a wealth of free or low-cost websites that will stimulate learning in many topic areas. Some libraries also offer computers for public use. Try pbskids.org and nbclearn.com

Above all, maintain a balance of down-time and planned learning. Kids need to unwind and enjoy the summer, but it's smart to keep their bodies and brains active and in shape for a new school year—and for life!

Resources

"Healthy Summers for Kids: Turning Risk into Opportunity" –

summerlearning.org/resource/resmgr/Healthy_Summers_/NSLA_Healthy_Summers_for_Kid.pdf

Summer Learning Tip sheet – summerlearningcampaign.org/about/Parent_Tips_BW.pdf

their middle-class peers make slight gains.

During the summer months, today's families face multiple, interrelated challenges, which are magnified for low-income families. Parents struggle to find and pay for high-quality summer care for their kids. Many also lack access to healthy meals and safe places to play outdoors, causing young people's health to actually decline in summer as compared to the school year.

The report's authors find that summer learning programs have an important role to play in reversing negative health and nutrition patterns in support of their academic mission. Yet many families—especially in rural areas—lack access to formal summer learning programs.

Stop the Summer Brain Drain

So, what can families and communities do to prevent learning loss and promote healthy bodies, while also giving kids time to relax and enjoy summer? I went to the experts—

learning get better every year, and they can be a great option for learners who are reluctant to participate in large groups. Check out the GRASP program—a nine week correspondence program written by Grand Rapids Public Schools staff in math and reading. Kids who have completed grades K-8 can receive a packet of materials for the nine weeks of summer, and mail in a lesson a week. Any family can join the program, even if they are from a non-GRASP school. grpublicschools.org/grasp

5. Learn a new language! Involve the whole family with an online tool such as Rosetta Stone.

6. Keep math in mind. Since kids lose more math skills than anything else over the summer, try to do some special planning to find math-related activities. Buy math workbooks and play games that use math and numeracy skills. And if you have a choice between summer classes in "Puppet Theater" or "Math Magic," choose the math.

Linda Wacyk is a regular Country Lines freelance writer, educator, grandmother and content empty-nester.



Hot Water Can Heat Homes

Using a reverse cycle chiller with your home's heat pump can be a less costly alternative to supplemental resistance heating.

Q: *We have an old, inefficient electric resistance furnace. I have heard there are some new types of heat pumps that use a big water tank and don't need backup heat. How do these systems work, and are they efficient?*

A: Although electric resistance heating can be relatively expensive to operate, it is 100 percent efficient—that means all the electricity you pay for ends up heating your house. With a gas or oil furnace, you lose some heat out the flue. The problem with electric resistance heating is that it costs more to produce 1 Btu from electricity than it does by burning fossil fuels.

A heat pump can produce 3 Btu of heat for your house for each 1 Btu on your electric bill. This is because the heat pump does not create heat directly. It uses a compressor, coils and other equipment to draw heat from the outdoor air and pump it into your house.

The heat pump system you asked about is called a reverse cycle chiller. It basically uses a standard high-efficiency heat pump to produce heat during winter and cool air in the summer. A typical air-source heat pump heats or cools a refrigerant that flows directly through an indoor coil. Air blows over the coil to heat or cool your house. A reverse cycle chiller heats or cools water in a small (20- to 40-gallon) insulated tank. The water then flows through the indoor coil. The entire system will cost 15 percent to 20 percent more to install than a standard heat pump/electric furnace combination.

The output capacity of a typical heat pump is sized for the cooling Btu requirements of the house. In most parts of the U.S., the heating Btu requirements are greater. To make up the difference, a backup electric resistance furnace is required during very cold periods. As the outdoor temperature drops, the heat output of the heat pump also drops just as the heating needs of your house increase.

You might think you could install a larger capacity heat pump to provide enough heat for your house even on very cold days. This would be possible with an air-source heat pump, but it would not work well in the air-conditioning mode. An oversized air conditioner results in short cycles, indoor temperature swings, and poor dehumidification.

The primary advantage of a reverse cycle chiller is it transfers heat to an insulated water tank. This allows you to install a heat pump with an extra large capacity for adequate heating even in cold weather without the associated summertime cooling issues. Many of the major HVAC manufacturers' heat pumps can be used with a reverse cycle chiller system.

During summer, this large heat pump cooling capacity chills the water in the insulated tank to 40 degrees or so. The chilled water is run through a coil in the blower system, which cools and dehumidifies indoor air just like a standard heat pump. The heat pump can cycle on and off as needed to chill the water in the tank independently of the indoor blower. Therefore the blower can run as long as needed to provide comfort and efficiency.

Another key advantage of having the heated water tank is its wintertime defrost mode. A heat pump regularly switches to the cooling mode to defrost ice that collects on the outdoor condenser coils. During this time, expensive electric resistance heat comes on or chilly air blows out the registers.

With a reverse cycle chiller, the heat to defrost the coils comes from the heated

The following companies offer reverse cycle chiller systems:

Aqua Products

800-840-4264 • aquaproducts.us

Multiaqua

864-850-8990 • multiaqua.com

Unico System

800-527-0896 • unicosystem.com

If you have a question for Jim, please email jdulley@countrylines.com, or mail to James Dulley, *Michigan Country Lines*, 2859 W. Jolly Rd., Okemos, MI 48864. Be sure to let us know which electric co-op you receive service from.

Visit dulley.com for more home improvement and do-it-yourself tips.



Source—Aqua Products

This reverse cycle system compressor unit is mounted on top of the heat exchanger to transfer heat to the water.

water tank so warm air continues to blow out the registers. During regular operation, the temperature of the air coming out the registers is also warmer than with a typical air-source heat pump.

In addition to eliminating or greatly reducing the use of backup resistance heating, a reverse cycle chiller provides options for efficient heating. Because the heat is coming from the insulated water tank, you can select different types of heating for different rooms. The hot water can be piped through a heat exchanger (fan coil) and typical ductwork to produce heated air.

It may be more efficient and comfortable in some rooms to use radiant floor heating. For this heating method, the hot water flows through pipes in the floor. This is one of the most efficient heating methods because you can feel comfortable at a lower room air temperature. This option is more feasible for new construction, but it can be used if you have a basement providing access to the underside of the floor above.

During summer, an optional refrigeration heat reclaimer (similar to a geothermal desuperheater) can be used. Instead of the heat pump exhausting the heat to the outdoor air in the cooling mode, it can be used to heat your domestic hot water for free.

During winter, the heat pump can be used to heat your domestic hot water in addition to the house.

James Dulley is a nationally recognized mechanical engineer writing about home energy issues for the National Rural Electric Cooperative Association.





JOURNEYMEN – Lineworkers Dan Brady and Ray Arbic completed their four-year apprenticeship and training program. The certification is a significant milestone for lineworkers and recognizes over 7,500 hours of field work. (Pictured, L-R, are: Dan Dasho, Cloverland president and CEO; Rick Arbic, Alpena Community College utility tech instructor; Dan King, MECA safety instructor; Dan Brady and Ray Arbic; Dave Matz, Great Lakes Energy Apprenticeship Program chairman, and Jim Mackie, Cloverland safety manager).

Power of Excellence Scholarships

On June 29, during the cooperative's annual meeting in Sault Ste. Marie, Cloverland Electric announced **Aroon Devaprasad** from Sault Ste. Marie and **Tyler Ledy** from Wyoming, MI, as the recipients of this year's Power of Excellence scholarships. Both students were awarded \$1,500 college scholarships.

Aroon plans to attend the University of Michigan and pursue a career in electrical/mechanical engineering. Tyler will attend Central Michigan University to study bio-medical science.

In celebration of 2012: *The International Year of Cooperatives*, applicants were asked to write an essay describing how cooperatives are unique and how co-ops are helping to build a better world.

Since 2002, 45 students have benefited from Cloverland's scholarship program and received more than \$22,000 in college assistance.

the new look of cloverland.com

features

- Pay Your Bill Online
- Outage Central
- Image Gallery
- E-Newsletter
- Document Library
- Quick Links
- Search by Topic
- Change Address
- Easy Online Forms
- FAQs, and more!



Watch for Cloverland's new and improved website coming soon...



Energy Star® Products Can Bring Out the Best in Your Home

Remember your grandparents' kitchen and living room? Now picture your current home. What differences come to mind? Lime green and turquoise appliances have given way to black, white and stainless steel. Console TVs have become flat screens. And, energy use is more important than ever since more appliances and electronic devices are part of today's homes.

Energy efficient merchandise offers convenience and helps you manage your energy use. Energy Star® products provide the same features that you're already used to, but can use up to 75 percent less energy than standard models.

What is Energy Star?

Energy Star began 20 years ago as a joint effort between the U.S. Department of Energy and the U.S. Environmental Protection Agency. This voluntary labeling program promotes energy efficient products. Computers and monitors were the first products to earn the Energy Star label.

Today, there are 60 Energy Star product categories—from lightbulbs to refrigerators—

and over 300 million qualified products are sold each year. In addition, 2,200 private employers manufacture these products, providing jobs and helping customers save energy.

To use the Energy Star label, a product must:

- Contribute significant energy savings.
- Deliver features and performance that customers demand.
- Back up energy savings claims with testing.

In short, Energy Star is a trusted brand for quality products that use less energy. Energy efficiency products are among the few products on the market that pay you back over time.

Rebates

While Energy Star-qualified products often cost more than standard versions, the initial investment is almost always recouped by the long-term savings that result. Rebates can also help offset the up-front cost. Cloverland Electric Cooperative offers cash-back rebates on

qualifying efficiency products, including Energy Star.

Learn more at michigan-energy.org.

Shop On

If a lightbulb burns out or your fridge is on the fritz, give Energy Star a chance. For more ways to save energy, check out Cloverland's other Energy Optimization programs.

Online: michigan-energy.org

Call: 877-296-4319

Sample Energy Efficiency Products	Rebate
CFLs, LEDs, LED Holiday Lights	In-store discount
CFL or LED Light Fixtures	\$15-20
Smart Power Strip	\$20
Room Air Conditioner	\$20
Dehumidifier	\$20
Refrigerator	\$20
Clothes Dryer	\$25
Dishwasher	\$20
Clothes Washer	\$50
Low Flow Aerator Kits	\$10

ENERGY STAR® appliances: Feel-good purchases
 Dishwasher on the fritz? Need a new refrigerator? Dryer not working? Take advantage of \$10-\$50 Energy Optimization rebates on qualifying energy efficient appliances. View incentives online.

shop SMART

ENERGY TIP: Use up to 75% less energy with ENERGY STAR products.

Online: michigan-energy.org **Phone:** 877.296.4319

E Energy Optimization **Cloverland ELECTRIC COOPERATIVE**

Energy Optimization programs and incentives are applicable to Michigan service locations only. Other restrictions may apply. For a complete list of participating utilities, visit michigan-energy.org.

Too Much Stuff

Is it time for a garage sale?

My wife Barb and I have asked each other that question for the last 10 years and though we've agreed we need to get rid of a lot of stuff, we haven't pulled the trigger. So, stuff keeps piling up. (No, we're not hoarders—yet.)

We've got to clean out the basement.

And the garage.

And the attic above the garage.

And the garden shed.

And the closets.

I took a quick inventory of stuff that we should get rid of but may disagree about.

Cedar-lined hope chests, large and small, inherited from parents and family friends. An 18-speed Fuji bicycle bought in 1978—heavy by today's standards but still a nice bike (I should take it for a spin).

Piles of wood in several places: 2x4s, 4x4s, plywood, treated planks, oak trim with nail holes (I wonder if I should put it back up?), lattice for the deck.

Metal tubing used on a kids' play gym that I tore down long ago, a door for a 1991 Mazda RX-7, old windows, and one of those tiny spare tires.

Stationary and portable table saws (I don't know which one to keep), a double-bed headboard and frame, several wooden screen doors meant to be a simple means of creating a screened-in porch (seemed like a good idea at the time).

A chain saw with a bent bar, a gas-powered, broken leaf shredder and wood chipper, several speaker sets for various music systems, a couple of large plate mirrors (I don't dare break them up), several somewhat broken bird feeders, an old sump pump that probably still works.

Various insulation panels, aluminum siding panels and vinyl trim, shingles left over from roofing projects, extra rain gutters.

A set of old golf clubs, badminton and croquet sets, He-Man® toys (apparently we're supposed to keep these), playthings

for a pool we no longer have, cross-country skis (the long, narrow kind) with boots.

A set of painted end tables designed for the '70s.

And then, there are clothes, mostly mine from my work life: suits and ties I'll never wear again. Life sure is easier when you only wear jeans, or shorts and polo and t-shirts.

Stuff has been piling up in those spaces for 35 years. It's been passed on by parents and aunts who wanted us to have it. Left by kids who moved on. Accumulated by us, kept because we might need it someday or haven't used it enough to justify getting rid of it, if that makes any sense.

If we had moved a few times in the past 35 years, we probably would have ditched some things with each move, but didn't and haven't, so it keeps piling up. I worry that our sons will have to deal with all this stuff if we don't do something about it.

A friend is wondering what to do with all of his mother's china, passed down through generations, which no one in the family wants.

Every time my parents moved, from Ironwood to Mason to Minneapolis and to assisted living, they got rid of stuff. So, now there's not much left for their kids to worry about.

Believe me, none of this stuff is going to make it to Antiques Roadshow. Maybe people from the American Pickers TV show will come and buy it all, but I'm not holding my breath.

Usually, when we want to get rid of something that really has no value, we put it next to the road and tape a "FREE" sign on it. Sometimes, we don't even bother with the sign. People take it anyway. I don't know if that's considered theft. We've gotten rid of broken lawnmowers and snowblowers, a 30-year-old TV, old windows and doors, lawn and inside furniture, a broken shop vacuum.

We play a game to guess how long it will

take for someone to haul it away. I don't think any of those free things has lasted longer than a couple of hours out front. The record is 20 minutes. I'm glad someone can use this stuff.

If we lived a little further south, we could join Michigan's Longest Garage Sale, which stretches along the entire route of U.S.-12 from Detroit to Coldwater to New Buffalo, from Lake Erie to Lake Michigan. This year it runs from Aug. 10-12. (Get a map at us12heritagetrail.org.) Hundreds of homes, farms and businesses along the mostly country road will be selling everything from antiques, collectibles, furniture and dishware to fresh garden produce and homemade jams and jellies. There will be live entertainment along the way. Maybe even more interesting than the "junk" are the people you'll meet along the drive.

The U.S.-12 Heritage Trail has been used since prehistoric times. Near Saline and parallel to the highway, paleontologists from the University of Michigan have excavated portions of the longest mastodon trailway ever found, suggesting that game animals were using the corridor over 10,000 years ago. The indigenous people of Michigan who hunted the animals followed.

In 1825, the U.S. government appropriated \$3,000 for a federal highway, the second in the nation, which was laid out along an ancient Indian trail. Maintained by federal, state and local governments, the highway has been used ever since. Some of the stuff in the garage sale may be as old as the highway.

But we don't live there, so we will resort to other means. Some things will go to Goodwill, some we'll put on Craigslist, the rest will wait for a garage sale. Whenever.

Mike Buda is editor emeritus of Country Lines. Email Mike at mbuda@countrylines.com or comment on his columns at countrylines.com/column/ramblings





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