

New heat pumps provide comfort & safety, page 18

ILLINOISTM

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March 1998



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on Channel Earth, but
Orion shines on*

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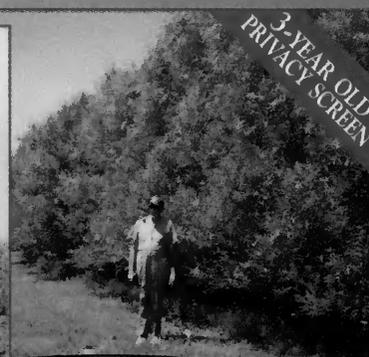
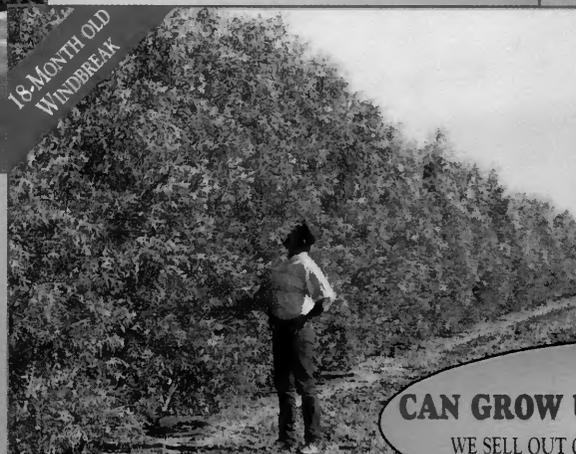
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COVER STORY

10 Orion Shines on Channel Earth

The resonant baritone of Orion Samuelson (left), so familiar to Illinois farmers as the agricultural voice of Chicago's WGN, was also the voice of Channel Earth, which until recently was carried on DirecTV.

Samuelson has spent a long career devoted to rural and agricultural issues.



DEPARTMENTS

4 ILLINOIS COMMENTARY

The National Rural Telecommunications Cooperative – which teamed with DirecTV to bring you Channel Earth – is an effective advocate for rural consumers, says NRTC board member Wm. David Champion Jr., president and CEO of Eastern Illini Electric Cooperative.

6 ILLINOIS CURRENTS

Peace Corps fellows seek Illinois communities to help; steps to a trophy; snowmobile trail grants; fire safety; "green" businesses; Internet-charged outlets and more.

14 SAFETY AROUND YOUR HOME

Anhydrous ammonia is one of the most common farm chemicals – and one of the most dangerous.

16 YOUR YARD AND GARDEN

Spring care is essential to a healthy summer lawn.

18 TODAY'S TECHNOLOGY AND YOU

A new generation of heat pumps provides comfort and efficiency.

24 ILLINOIS' FINEST COOKING

The Women's Bible Fellowship of the Petersburg United Methodist Church and the J.D. Colt School in Litchfield provide recipes this month.

26 ILLINOIS MARKETPLACE

28 ILLINOIS DATEBOOK

A collection of Native American dolls like these can be seen at Dickson Mounds Museum through April.



Illinois COMMENTARY

Co-ops dishing up more than satellite TV

In 1986 rural electric leaders from Illinois and across the nation came together with a vision for the future — that rural communities would have access to the same modern telecommunications services enjoyed by urban residents. That vision became the National Rural Telecommunications Cooperative (NRTC).

Like the cooperative leaders that came before them more than a half-century ago, today's cooperative leaders do not want to see rural communities left behind. In the 1930s the vision was electricity. Now we are living in the information age and rural citizens deserve access to modern telecommunication service and the vital information link these new technologies provide to the rest of the world. With



Wm. David Champion, Jr.

the combined strength of nearly 800 rural electric cooperative and telephone systems, and affiliated organizations in 48 states, NRTC has been an effective advocate for rural consumers.

Starting with satellite programming service, NRTC's members now provide two unique satellite television services which directly link more than three-quarters of a million rural consumers, many of whom live beyond the reach of cable and off-air television.

C-band satellites have been available since the early 1980s, opening the door to cable programming for many in rural, non-cabled areas. Now direct broad-

cast satellite (DBS) is the technology used to deliver DirecTV programming via the Digital Satellite System. The small, 18-inch DirecTV dish uses the newest digital technology, which delivers the clearest picture and sound, and brings up to 200 channels into the home.

NRTC helped veteran agricultural journalist Orion Samuelson launch Channel Earth, television's first news and information channel devoted exclusively to serving the unique needs of farmers, ranchers and all of rural America. Channel Earth delivered live and late-breaking agricultural news, weather, market and commodity information, plus instant updates on trends, policies and politics affecting farmers, ranchers and other rural citizens.

While satellite television was NRTC's first focus, it is only a part of the NRTC vision. Affordable, high-quality Internet access is vital to the future of rural communities. NRTC is helping to make Internet service available to several rural communities with a national service called "nrtc.net." The service is offered by NRTC and its partner Nortel (Northern Telecom). The goal is to develop new local Internet service or improve existing service as Internet service providers (ISPs) and through aggregation to lower the cost of Internet service.

NRTC is working with several partners to provide new services and products that can help local electric cooperatives improve basic electric service. For example, NRTC is working on a plan to help cooperatives use available radio frequencies. Co-ops will be able to provide dispatching, paging, remote meter reading and system control service for their systems and provide radio services to members.

NRTC is also in discussions with satellite service vendors on a two-way satellite system that can deliver high-speed Internet and video conferencing for about \$1,000. It is scheduled to launch in 2001. NRTC is also talking to suppliers of low-Earth-orbit satellite systems to find out how their satellites can be used in rural areas for the benefit of businesses and consumers. These systems orbit about 100 miles above the earth instead of 22,500 miles.

NRTC has also developed LINK, a unique automated meter-reading and power-quality monitoring

Wm. David Champion, Jr. is president/CEO of Eastern Illini Electric Cooperative. He has represented Illinois, Iowa and Wisconsin on NRTC's board of directors for the past nine years, currently as vice chairman. He completes his last term of eligibility this month.

continued on page 5

Snowmobile trail grants awarded

Snowmobile trail grants totaling more than \$137,000 have been awarded to two local governments and four private snowmobile clubs to acquire and develop snowmobile trails in Illinois and to renovate trail grooming equipment.

"The grants will be used to buy a 9-mile trail in Ogle and Lee counties, provide a floating bridge across the Des Plaines River in Lake County, and enhance and maintain trails operated by snowmobile clubs in northern Illinois," said Brent Manning, director of the state Department of Natural Resources.

The Local Government Snowmobile Grant program is providing \$78,500 to the Dixon Park District to buy a 9-mile trail corridor from the Village of Polo to Lowell Park in Dixon and \$30,700 to the Lake County Forest Preserve District to build a floating bridge across the Des Plaines River in northern Lake County.

More than \$28,400 from the Snowmobile Trail Establishment Fund is earmarked for the renovation of trail grooming equipment, trail maintenance and signage in McHenry, Lake, Kane, DeKalb, Boone, Winnebago, Stephenson, Jo Daviess, Carroll and Whiteside counties.

Application forms for the next round of grants are available by contacting the Department of Natural Resources, (217) 782-7481 or TDD (217) 782-9175. Applications are accepted March 1 through May 1.

Fire safety web page for teachers, kids

The Illinois Fire Marshal's "Fire Safe Home Page" for kids is a nifty tool for teachers, providing free fire safety resources, fun games, activities, and a poster contest. Kids can learn about valuable fire facts, the fire marshal's K-9 unit and fire department equipment. Point your browser to state.il.us/kids/fire.

Illinois Commentary *continued from page 4*

system that is available. LINK fits easily and compactly between the existing meter and meter base without need for any special modifications to the meter. In addition to standard monthly power usage readings, LINK provides real-time reports of power outages and restorations, high or low-voltage conditions, meter tampering and usage demand above a preset threshold. With two-way communications, the customer and cooperative will have more information about energy consumption and power quality. This information can help solve and prevent power problems.

It is interesting to note that in this age of utility deregulation, large investor-owned utilities are forming subsidiaries to market some of the same services NRTC and the electric cooperatives started providing in 1986. However, the investor-owned utilities' focus is not on the customer, it is on profits for the company. Cooperatives have a commitment to compete in this new age of deregulation, but it is through our collective strength and our commitment to the member that I believe we will succeed. Some things never change.

Peace Corps fellows serve Illinois towns

The Illinois Institute for Rural Affairs (IIRA) at Western Illinois University is seeking rural Illinois communities to host a Peace Corps Fellow from June 1998 to May 1999.

Nine fellows with experience in community development work overseas will work on an economic or community development project to complete

their graduate study at WIU, said John Gruidl, program director. "The fellows, who are returned Peace Corps volunteers, will work on projects the community has identified," Gruidl explained.

The last three years, the IIRA has placed 17 Peace Corps fellows in rural towns across Illinois, from Cairo to Morris and Carthage to Gibson City. The fellow frequently serves as a spark plug to spur local development efforts, Gruidl said.

Karen Maudlin-Curtis, whose Peace Corps service was in the Dominican Republic, worked this year in Cambridge, in Henry County. She worked on community revitalization, coordinating efforts to revise village ordinances, directing downtown beautification projects, forming a tourism and special events committee, and organizing public relations and grant writing.

Funding for the program comes from the Kellogg Foundation, the Department of Commerce and Community Affairs and participating communities and universities. For more information, contact Gruidl at (800) 526-9943 or (309) 298-2237. Applications for communities seeking to host a fellow are due by March 15. The fellows' assignments begin in June 1998.





Steps to a trophy

Deer hunters who want to know where to find those big racks will be interested in *Steps Along the Hunter's Path*, a new book compiled from seminars at deer and turkey expos held last year in Illinois, Wisconsin, Michigan, Ohio and Tennessee.

The book is for the hunter who wants to know how big the whitetail antlers are and where those big racks come from, says promoter and publisher Glenn Helgeland of Target Communications Corp. Among its offerings: a list of trophy contest winners from each of the expos; county maps of each state showing the numbers of trophy-class whitetail deer

(plus black bear in Wisconsin and black bear, elk, and turkey in Michigan) in 1996; instructions for getting your trophy measured and entered in record books; a recipe collection; help finding pockets of huntable land; a look at economical safari adventures; listings and photos of outdoor photo contest winners, and more.

Steps Along the Hunter's Path, with more than 200 pages and lots of illustrations, is available for \$22.70 including postage and shipping from Target Communications, PO Box 188, Mequon, Wisc. 53092, or call (800) 324-3337. By the way, this year's expo is in Peoria March 27-29.

Worth repeating

Public Utilities Fortnightly reports a recent slow-down in rail shipments of Western coal has begun to pinch the electric utility industry. The industry magazine notes the source of most of the congestion is the Union Pacific rail system, which is struggling to integrate recently acquired Southern Pacific, creating the largest rail system in the United States. "Collectively the UP provides transportation services to more than 75,000 megawatts of coal-fired generation," it reports. Some utilities are responding by cutting back on wholesale power sales and curtailing coal-fired generation during non-peak hours. Gas prices are rising as a result also, it said. "Producers and suppliers alike must be aware of related energy market activities and prepare to deal with the increased volatility in those markets that electric utility deregulation will undoubtedly cause," it concluded.

The power of methane

Australia's Appin mine uses mine ventilation air as feed gas in its electricity-producing, methane-fired internal combustion engines. The use of ventilation air, which contains low concentrations of methane, has increased overall power generation by 7 to 10 percent and reduced greenhouse gas emissions, reports the Coalbed Methane Extra, a publication of the U.S. Environmental Protection Agency.

Greenhouse gas emission reductions are about 4.3 million tons per year of carbon dioxide equivalent. Previously, the mines simply released ventilation air to the atmosphere because it was believed methane concentrations were too low to be used productively.

"This technology can be applied universally to coal mines anywhere that have coalbed methane in their ventilation emissions," Caterpillar senior product consultant Len Lloyd told the Extra.

Internet access through power outlets?

United Utilities, a power company, and Northern Telecom Ltd., a Canadian maker of telecommunications gear, say they have developed technology that would let homeowners make phone calls and access the Internet at high speeds via the electric outlets in their walls.

If it proves commercially viable, it could transform power lines around the world into major conduits for the Internet. Both say their system is ready for the mass market, after they test marketed 20 U.K households during the last year with positive results. Stay tuned.

Co-op publication features "green" businesses

A publication by Co-op America includes 2,000 listings in 150 categories of products and services considered to be "green." The co-op is a 15-year-old non-profit organization dedicated to promoting businesses with a social and environmental agenda.

One silk clothing company, for example, convinced Colombian farmers to produce silk, which now brings them three times more income than growing coca for cocaine did. That company then taught women in Milwaukee's inner city how to earn income by weaving mittens and scarves from the Colombia silk.

The *National Green Pages* is available with a minimum \$20 membership to the co-op, 1612 K. Street NW, Ste 600, Washington, D.C. 20006. (\$15 will get you membership, but not a copy of the book.) Membership also gets you a subscription to *Co-op America Quarterly*.

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44	5.10	6.80	8.50	10.20
45	5.10	6.80	8.50	10.20
46	5.10	6.80	8.50	10.20
47	5.61	7.48	9.35	11.22
48	5.61	7.48	9.35	11.22
49	5.61	7.48	9.35	11.22
50	6.12	8.16	10.20	12.24
51	6.63	8.84	11.05	13.26
52	7.14	9.52	11.90	14.28
53	7.65	10.20	12.75	15.30
54	8.67	11.56	14.45	17.34
55	9.18	12.24	15.30	18.36
56	9.69	12.92	16.15	19.38
57	10.71	14.28	17.85	21.42
58	12.24	16.32	20.40	24.48
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60	14.28	19.04	23.80	28.56

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63	19.38	25.84	32.30	38.76
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65	22.95	30.60	38.25	45.90
66	26.01	34.68	43.35	52.02
67	28.56	38.08	47.60	57.12
68	31.62	42.16	52.70	63.24
69	35.19	46.92	58.65	70.38
70	39.27	52.36	65.45	78.54
71	42.84	57.12	71.40	85.68
72	47.94	63.92	79.90	95.88
73	54.06	72.08	90.10	108.12
74	59.16	78.88	98.60	118.32
75	66.30	88.40	110.50	132.60
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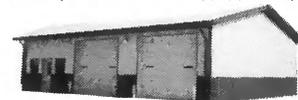
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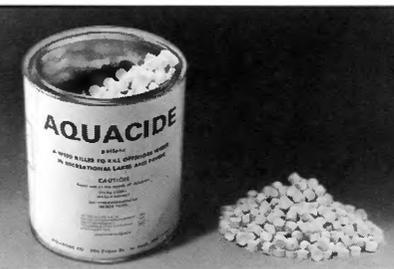
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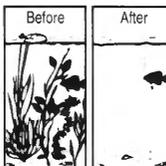
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The sun may have
set on Channel
Earth, but



Orion Shines On

Story and cover photo by Janeen Keener

Just short of a year ago, after nearly four decades as the familiar baritone and trusted face of agriculture for Chicago's WGN, Orion Samuelson did something many of his friends said he was nuts to do. He launched Channel Earth, a dawn-to-dusk channel devoted to agriculture and rural living. Illinois Country Living (ICL) interviewed Samuelson, and his long-time associate, Max Armstrong, on Jan. 8. On Feb. 2, as ICL was going to press, inadequate advertising forced the sun to set on the fledgling channel. While the future of Channel Earth and its crew is uncertain, Samuelson's contributions to both journalism and agriculture are immense – and by no means complete.

Orion Samuelson recalls two days of his youth in particular detail. Both illustrate the isolation rural residents experienced before electrification.

The first came during the FDR administration and World War II on the Samuelson farm in southwest Wisconsin. "Our mailbox was a mile and a half away. We had no telephone. We had no daily paper," said Samuelson. The family had only rationed V-batteries and used them judiciously, forgoing such programs as Superman, Capt. Midnight and Tom Mix for the war reports of Gabriel Heater and H.V. Kaltenborn. But by January 1945, the batteries were spent. "We were virtually without communications."

On April 12, 1945, as 11-year-old Samuelson went about his chores, snow laced the ground, but the earth was warming. Through a foggy mist, nearly a half mile away, he saw his neighbor across the valley, who was banging the bottom of a wash-tub with a hammer.

"'Orion, tell your folks the president died this afternoon.' That's how I got the news. Shouted across the valley," he recalled, from his downtown Chicago office. At the end of this month, Samuelson and his 20-year partner, Max Armstrong, and 28-year assistant, Lottie Kearns, were poised to celebrate the first anniversary of Channel Earth, an agriculture and rural life channel born of a deal between the National Rural Telecommunications Cooperative (NRTC) and DirecTV.

DirecTV is the largest of the di-

rect broadcast satellite services, delivering more than 175 channels to homes and businesses equipped with its pizza-sized dish. Channel Earth was credited with helping to boost DirecTV dish sales to more than 3 million, with more than half of them to rural customers and nearly 350,000 on farms.

"Today I go into a TV studio and talk to the world. I'm 63 and in that period of time the dynamic change we have seen in communications is just phenomenal," Samuelson said.

Three years after FDR died, nearly to the day, came another important day. "There are days in your life that you never forget and April 11, 1948, is a date that I'll always remember. Because that night I stood at the bottom of the stairs and poked a switch and had light in the bedroom." No longer did he have to carry the kerosene lamp up stairs to go to bed.

"That's my REA experience and it's a vivid one. We threw the flat irons away. We no longer had to put butter and eggs into a basket on the end of a rope and drop it down into a water cistern to keep it cool in the summertime. Had a refrigerator and got a milking machine so we didn't have to milk by hand. So, that's why I will forever be a supporter of rural electrics, because the private utilities wouldn't have come out to the end of this ridge where we were the only farm."

Then, just as the lad was to graduate from his eight-grade country school to "town" school, as high school was known then, he was bed-ridden with a bone disease in his hip. For two years he was confined to a body cast, bed or a wheel chair to keep the disease from spreading. He could no longer do the heavy work of farming, nor could he attend school, or join the FFA. The towering youth's dream of becoming a star basketball player was dashed. He was angry.

But a vo-ag instructor, who himself had an artificial arm, kept the boy's education on track, making the trip to the Samuelson farm three nights a week, bringing new

assignments and corrected work. All the while, the early seeds of his career were beginning to sprout and take hold. No longer reliant upon rationed batteries, he had plenty of time to while away.

"People are now asking me 'What's the biggest change you've seen in agriculture in America?' and I have a one-word answer. It's globalization."

"I listened to the radio a lot," he said, now recognizing his misfortune was the best thing that ever happened to him. "You know, had that not happened, I'd probably still be milking cows."

"I'm listening to Burt Wilson do Chicago Cubs games, and I thought, 'Hey, that would maybe be something I could do.'" As soon as young

Samuelson was back on his feet, he got into FFA public speaking and in two years was one of the five state finalists in Wisconsin FFA. He went on to graduate as salutatorian, and when the valedictorian passed up a year's scholarship at the University of Wisconsin, Samuelson snapped it up.

"My dad had a sixth-grade education. My mother had a high school education, and so, they were excited that their first-born was going to college."

He lasted three weeks in college, and the itch to become a radio broadcaster, now, was strong. "There wasn't anything there that

was going to teach me to be a radio announcer." Samuelson admitted he was homesick. "All I'm getting is journalism books that are going to teach me how to write. And I don't want to write. I want to talk."

The father agreed to let his son go to broadcasting school, and young Samuelson found a six-month school in Minneapolis. Two days after graduating on Aug. 15, 1952, he went to work at a radio station about 17 miles from the farm.

"It was a daytime station, so I'd get up in the morning and milk the cows and change clothes and go to town and be a radio announcer, and get home at night in time to milk cows."

Two years later he left for Appleton, where he worked two years as a disc jockey. When the station's owner in Green Bay needed an ag reporter in 1956, someone remembered that Samuelson grew up on a farm.

The station, WBAY-TV in Green Bay, already was airing an hour of live agriculture every day. "We'd had a live van. We'd drive tractors in the studio or bring steers and dairy cows and hogs into the studio."

In 1960, along came an opportunity to interview at WGN in Chicago. "I sort of came down here on a lark to look at the idea and I've been here 37 years. Be 38 at the end of September."

Upon accepting the job, he asked for a full-time assistant. "You can't cover agriculture from a studio in downtown Chicago." He had two



Samuelson shares the stage with Ron Warfield, Illinois Farm Bureau president, and Elizabeth Dole in Charlotte, N.C., where he was presented the American Farm Bureau Federation's Distinguished Service Award.

Photo by Ken Kachian, courtesy Illinois Farm Bureau Farm Week

before the opportunity came 20 years ago to lure Max Armstrong away from the Illinois Farm Bureau in Normal, and his home near Towanda where he also served on the volunteer fire department.

Armstrong grew up on a farm in Indiana, where his father always attended rural electric meetings and, he recalled, the battles with the investor-owned utilities were regular supper table discussion material. "I remember many, many nights he parked the tractor to go to the rural electric co-op meeting. He always went to the NRECA (National Rural Electric Cooperative Association) meeting every year," Armstrong said.

As soon as Samuelson heard Armstrong on a Farm Bureau tape, he knew he wanted to try to hire him if the opportunity arose, and it did a year later.

"It is a good relationship," said Samuelson. "I have nothing but the highest regard for his (Armstrong's) journalistic ability and his editorial judgment. When I leave, when I travel, which I do a great deal, I have no concern at all that everything is in good hands, with Lottie handling the production end of it and Max doing the editorial and delivery end of it."

With the birth of Channel Earth on March 28 last year, personal appearances were as important as ever. Samuelson said he made about 70 appearances a year, serving either as master of ceremonies, a speaker or a panel moderator. During a recent appearance in Charlotte, N. C., the American Farm Bureau Federation rewarded him with its Distinguished Service Award.

Sometimes Samuelson flies to appearances himself, piloting his single-engine Cessna 210. And that's why a more recent date, Aug. 22, 1996, is another he will never forget. On that day he was flying back from a

"To me farmers and ranchers, 2 percent of the population, are the most important minority in the world, because they produce food, fiber and energy."

speaking engagement in North Dakota about midnight over McHenry County when a rod broke, giving Samuelson "the most interesting seven minutes of my life. God decided he ain't done with me yet, I guess. We managed to find a lighted runway and get it down without killing ourselves."

Samuelson, Armstrong, Kearns and at least two other staffers left WGN, which is owned by the Tribune Company, with the station's blessings — and a contractual relationship. They continue to provide the Tribune Radio Network's "National Farm Report" and a nationally syndicated weekly television show, "U.S. Farm Report."

"I wanted to continue the affiliation because it's an important one that serves a large agricultural audience. But at the same time I wanted to be able to do this, which to me was sort of the culmination of a dream of being able to bring the same sort of communications to farm and ranch homes that their city cousins have been getting for years."

He admits he's taken a ribbing from colleagues, many of whom thought he was nuts, a man nearing retirement age to launch a new channel.

"Some of my friends say, 'My God! You're 62 years old. Why don't you live out your retirement at WGN and forget about it.' I just couldn't do that. The technology

was just too exciting. I said I've gotta do this. I'm egotistical enough to think my 37 years gave me the knowledge and the recognition level to do it."

As the chairman, he had the freedom to do what he enjoyed and did best — programming, public speaking and attending special events.

But it also required him to be more deeply involved in selling advertising and raising investor money than he planned to be. And ad sales were slow in coming.

"We're not only a new company, we're a new medium in the minds of people," he said.

It was the flexibility and expanded time slot that Samuelson relished. "If we needed to do 45 minutes on a topic, we could do 45 minutes on a topic. We didn't have to limit ourselves to 5 minutes or 30 minutes. To me that was the exciting concept."

Channel Earth broadcast dawn to dusk, but viewers were clamoring for more, and before the plug was pulled, Samuelson and Armstrong were pushing for still more air time. Farmers and ranchers on the West Coast, where Chicago's 6:30 p.m. signoff is two hours earlier, were particularly vocal, he said.

And he wanted to go global. "I've been covering this business for 45 years, so people are now asking me 'What's the biggest change you've seen in agriculture in America?' and I have a one-word answer. It's globalization," he said.

"We've had interest expressed from Bolivia, from Brazil, from Sweden, from Germany, from France, and cable systems and satellite systems that are interested in getting our programming. So down the road, I would like to be able to do a 24-hour global information network that would serve agriculture," he said.

"To me farmers and ranchers, 2 percent of the population, are the most important minority in the world, because they produce food, fiber and energy. I just couldn't walk away from it. So, when we formed the company, I told the directors, 'I'll give you eight hard years. I'll keep getting up at 2:45 a.m. and being here at 4, but when I get to be 70, I'll start sleeping in — at least until 5.'"

With Channel Earth's sudden demise, Samuelson certainly has that opportunity now, but nobody's taking any bets.



Max Armstrong (right) also has deep roots in agriculture and rural electric cooperatives. Armstrong's father was very involved in an Indiana electric co-op and before going to work with Samuelson, Armstrong worked for the Illinois Farm Bureau.

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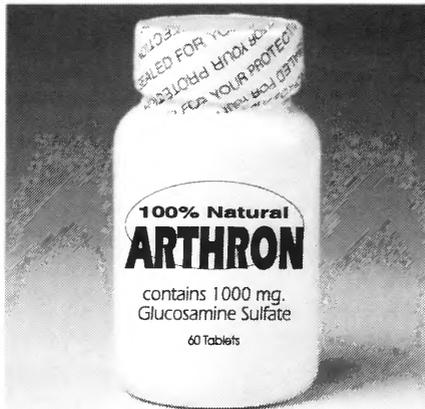
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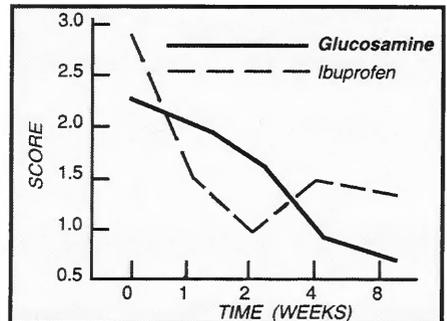
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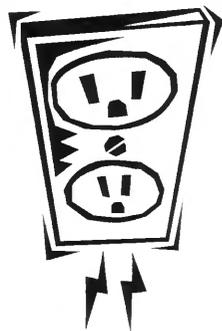
Anhydrous ammonia is one of the most common forms of nitrogen fertilizer used by Illinois farmers. It is also one of the most dangerous chemicals handled on the farm and precautions must be taken.

Anhydrous ammonia is a liquid while stored under pressure. When released into the air, it forms a sharp odorous gas that irritates the eyes and nose. Because anhydrous ammonia boils at -28 degrees F., it freezes the skin instantly. Anhydrous also dehydrates and deteriorates skin tissues and soft tissues such as the eyes and mouth.

Accidents involving anhydrous ammonia usually happen because of pressure buildup in an overfilled tank, worn or broken hoses, or failure to bleed the hose couplings before disconnecting. Other causes include pressure on tubing from plugged knives or an overturned nurse tank.

As long as anhydrous ammonia is in contact with the skin, tissues will be destroyed. Water is the only emergency treatment to suppress anhydrous injury. Farmers should have at least five gallons of potable water with them when applying anhydrous. For emergency treatment, flush the exposed body area continuously for at least 15 minutes. This will dilute the ammonia, lessen its damage, and eventually wash it away.

If ammonia gets into the eyes, treat immediately — anhydrous can cause permanent blindness. Carry a plastic squeeze bottle full of water in the shirt pocket for immediate action until you can get to a larger water supply. Since ammonia causes eyes to close involuntarily, force the eyes open and hold them to wash properly. If water is not available, flush the eyes with cool coffee or fruit juices.



Bill Brink is an extension educator, Crop Systems, at Springfield Extension Center, Cooperative Extension Service, University of Illinois. E-mail:brinkw@idea.ag.uiuc.edu

Remove clothes that are saturated with anhydrous ammonia. If they have frozen to the skin, thaw by pouring water on them. Do not apply ointments or oils to anhydrous burns for at least 24 hours because it may cause deeper burns.

Because of the hazards associated with handling anhydrous ammonia, operator protection must be planned and followed consistently. A face shield or goggles, rubber gloves, and a heavy-duty long sleeve shirt are recommended for operators.

Properly fitting goggles or a face shield must be worn when working closely with ammonia. A face shield will help prevent inhalation of a direct blast of ammonia and will also reduce possible eye exposure.

Loose-fitting, rubber gloves with an extended cuff are recommended for handling anhydrous ammonia. The extended cuff should be turned down so ammonia does not run down the sleeve when the arms are raised. Gloves that fit loosely can be removed quickly in case of emergency.

Further protection of the arms can be provided by heavy-duty clothing such as coveralls or a work shirt. Thin dress shirts do not give satisfactory protection.

The ammonia supplier is responsible to see that tanks and applicators meet federal and state standards. However, farmers should help the supplier by inspecting the equipment also. Here are some items to check:

- Are hitches secured with locking pins and safety chains?
- Are SMV signs correctly mounted and visible?
- Are nurse tanks clearly identified as containing ammonia?
- Is there at least five gallons of water on the tanks?
- Are fittings and knives clean and in good repair?
- Are hoses secure and in good repair?
- Is the applicator shut-off rope in good repair and accessible to the operator?

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Dave Robson

The main purpose of spring lawn care is to get the grass through the summer. Cool season grasses such as Kentucky bluegrass, perennial ryegrass, and the fescues need to develop a strong root system in order to survive summer's heat and dry conditions.

Ideally, our lawn care calendar should be from September 1 through August 31, and not April 1 through March 31. This would encourage nine months of cool-season growth before summer's conditions. Thinking that lawn care starts in the spring only allows a couple months of growth before harsh environmental conditions.

However, there are several practices that you can use to maximize your lawn's chances of surviving the summer.

Early spring fertilizer applications should be avoided, if possible. Early fertilizers tend to green-up the lawn, which isn't visually bad. However, adding nitrogen fertilizers tends to stimulate shoot development at the expense of root growth. Cool spring temperatures favor root growth more than shoot growth, which creates a denser and deeper root system for the turf. That deeper and denser root system means a better chance of survival for the summer.

If and that's a big *if* — you must fertilize in the early spring, do so at a low rate. Think about it 10 times before finally committing. Typically, homeowners have applied about 1 pound of actual nitrogen per 1,000 square feet. This is probably too much.

Instead, apply fertilizer at one-fourth (1/4) the recommended rate. For example, if the fertilizer bag says it will cover 5,000 square feet, it should cover

20,000 square feet. The low rate of fertilizer will green up your turf but not over stimulate shoot growth.

A full application of fertilizer could be applied during the middle of May (Mother's Day weekend) *If* you intend to water the lawn throughout the summer. Another alternative would be to use a slow-release fertilizer that would provide nutrients throughout the summer. Slow release fertilizers need less moisture and seldom burn turf.

Crabgrass pre-emergence chemicals can be applied in the early spring. Crabgrass germinates when the soil temperature has been 55 degrees or warmer for seven to 10 *consecutive* days. Crabgrass also needs light, air and open space to germinate. Look for those bare areas in the lawn and apply the crabgrass controls in these areas. Avoid applying it in thick, lush stands of turf where it's not needed.

April 1 tends to be a good time to apply crabgrass preventers. Most of the compounds have a residual time of four to six weeks. A second application around the middle of May will help control late germinating crabgrass as well as warm season annual grass weeds.

Avoid crabgrass-fertilizer combinations. These will stimulate the shoots to grow at the expense of the roots. There are plain "crabgrass killers" on the market; if you don't find one, ask if one can be ordered.

Make sure to read and follow all the directions on the chemical label.

As soon as the grass needs cutting, mow it. Don't wait. Most cool season grasses should be cut at a 2 to 2 1/2 inch height. This means mowing the lawn when it reaches 3 to 4 inches to avoid cutting off more than leaves. If you allow the grass to get tall before mowing, you run the risks of stressing the plants and encouraging diseases.

Sharpen your mower blades. This is essential. A sharp blade makes a clean cut. Blades should be sharpened at least twice a year.



David Robson is an Extension Educator, Horticulture, at the Springfield Extension Center, Cooperative Extension Service, University of Illinois. You can write to Robson in care of Illinois Country Living, P.O. Box 3787, Springfield, IL 62708. Telephone: (217) 782-6515. E-Mail: robsond@idea.ag.uiuc.edu

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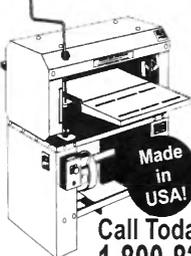
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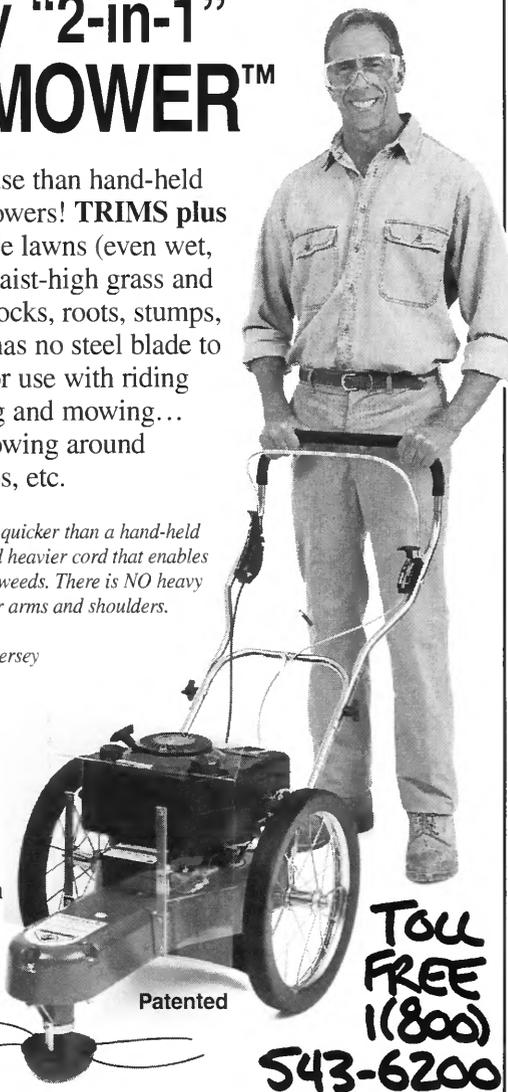
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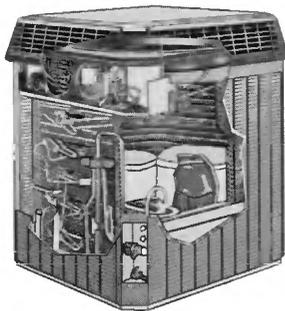
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Today's

TECHNOLOGY AND YOU

New heat pumps provide comfort and savings



Q: *I have an old heat pump. I often feel chilly and I think my heating bills are high. Do new heat pumps produce more comfortable heat and does it ever make economic sense to replace an old, but still working one? - M. K.*

A: The answer to both your questions is yes. There have been significant improvements in the comfort (no more chilly feeling), efficiency and sound level of heat pumps. My own house has an eight-year-old heat pump.

It sometimes makes economic sense to replace your old heat pump even though it still works. Installing a new super-efficient heat pump can cut your heating bills by 30 to 40 percent. The best ones provide \$3 worth of heat for each \$1 of electricity used. Have your heat pump dealer do a computerized payback analysis for you. This is usually a free service. Your local electric cooperative's energy advisor can also give you an estimate of what you can expect to save.

A new heat pump will also yield a similar savings when air-conditioning in the summer. With a new heat pump you can help your electric cooperative keep your long-term electricity rates reasonable because a heat pump reduces the expensive peak electricity demand each summer.

New heat pump designs, with two heating and cooling output levels, provide the highest overall efficiency and the best comfort. These heat pumps run on the super-efficient, low-output

level the majority of the time. When the weather gets severely cold or hot, they automatically kick into the high-output mode to keep your house comfortable.

On the low-heat output level, low electricity usage level, the heat pump runs for longer periods of time. This provides more even room temperatures with fewer chilly drafts in winter and better humidity control in the summer. If you plan to install a good-quality central air cleaner, these types of systems are ideal.

A "smart" variable-speed indoor blower motor is also recommended for all two-heat level models. When the blower first comes on, the speed ramps up slowly to minimize initial chilly drafts. These special blower motors also use about 60 percent less electricity. This can save another \$100 per year for people with allergies who use continuous air circulation.

One two-output level design uses one small and one large compressor inside the standard outdoor unit. During mild weather, it starts on the smaller, low-output compressor. If this cannot keep your house adequately warm during severe weather, the small one automatically switches off and the large compressor starts. The same happens in the summer when it switches to the air-conditioning mode.

The other super-efficient two-output level design uses a single two-speed compressor. It has a special two-speed motor and electronic controls that determine the optimum speed for comfort and efficiency. This design is a little less expensive than the two-compressor design, but there are some slight performance compromises to accommodate the changing speeds.

If your budget only allows for a single-output level heat pump, you will still realize dramatically improved comfort and efficiency. A single-speed model with a reliable scroll compressor



James Dulley is a mechanical engineer who writes on a wide variety of energy and utility topics. His column appears in a large number of daily newspapers.

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continued on page 19

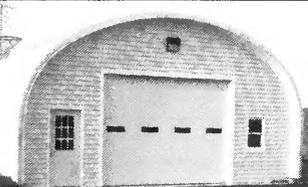
continued from page 18
is a good choice. A scroll compressor has only a few moving parts and actually improves its efficiency as it wears over time. Also, look for sound-reducing features like laminated steel/rubber compressor pads.

For the ultimate comfort, have a "smart backup heat" control kit installed. Some are available to fit on existing heat pump indoor air handlers. These kits have a computer brain to bring on just enough backup electric heat to warm the register outlet air to two degrees above your skin temperature. This is enough to make the air blowing out feel warm.

To compare efficiencies of various heat pumps, use the Heating Season Performance Factor (HSPF) for heating and Seasonal Energy Efficiency Ratio (SEER) for cooling. These figures provide a true overall comparison. You may also see COP (coefficient of performance) ratings. These compare the heat pumps' steady-state operating efficiencies, but do not take the start-up and other normal variations into account.

Write for Utility Bills Update No. 446 - buyer's guide of the 15 most efficient, comfortable heat pumps, output levels, compressor types, efficiencies, blower motors and a savings/payback chart. Please include \$2 (with checks payable to Jim Dulley) and a business-size SASE. Mail to: Jim Dulley, Illinois Country Living, P.O. Box 3787, Springfield, IL 62708. For instant download, go to <http://www.dulley.com>.

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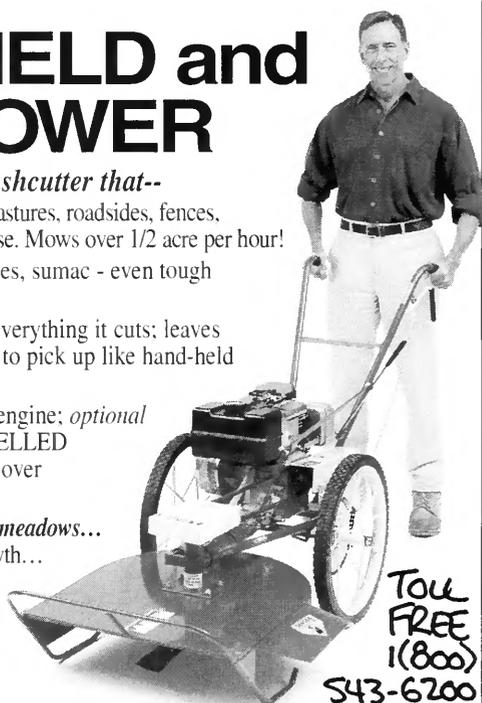
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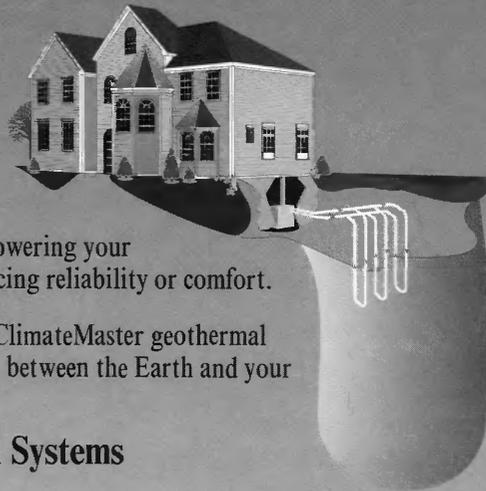
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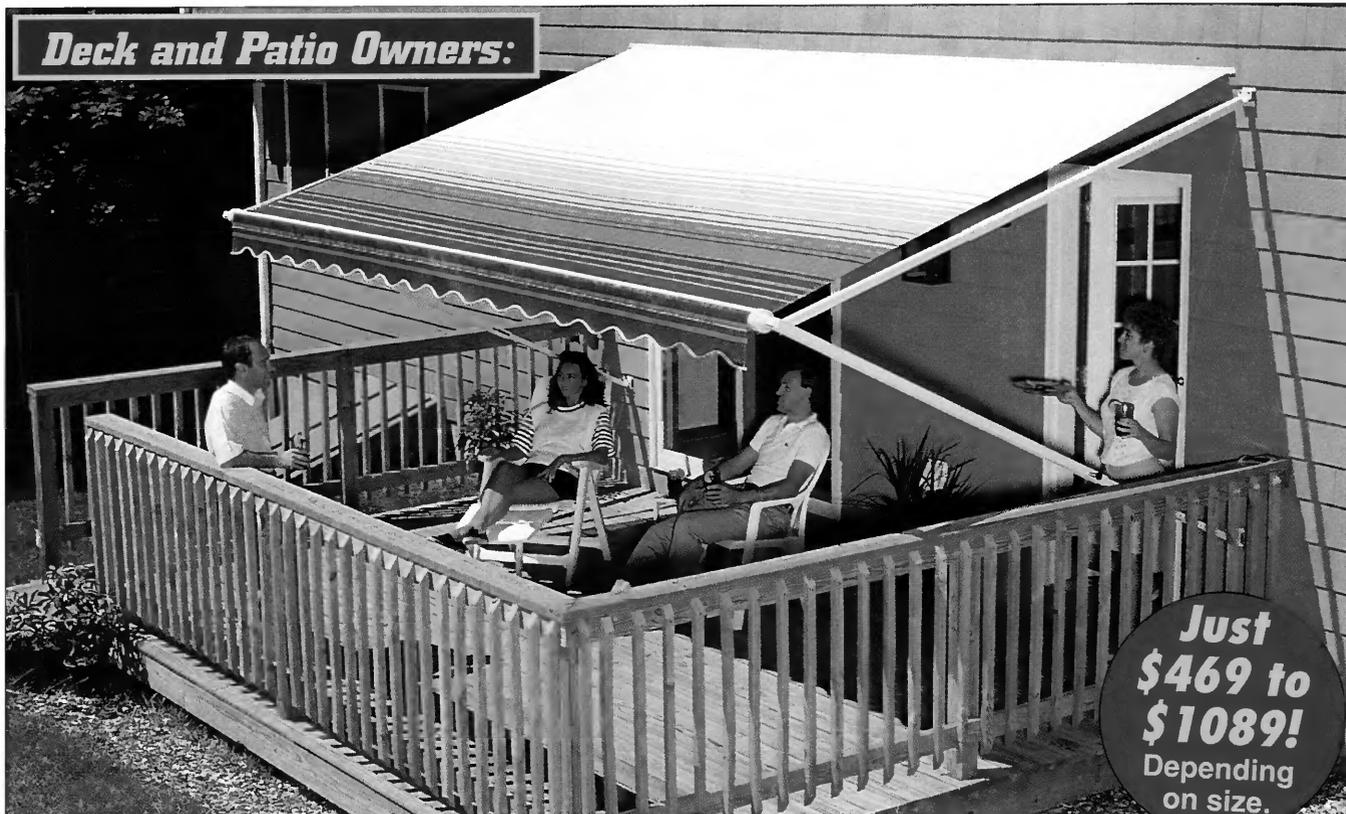
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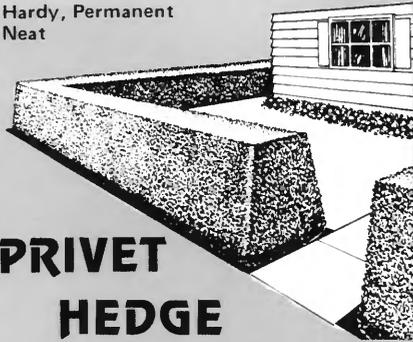


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The Women's Bible Fellowship of the Petersburg United Methodist Church prepared a cookbook in 1996. Proceeds from the sale will serve the youth of the church. The cookbook is an easel-backed three-ring binder, and has 362 pages which includes 14 mylar tabbed sections of 1,000 recipes, poems, prayers and history of the church. Order from Patty Pillsbury-Heder, RR 3 Box 105, Petersburg, IL 62675. Phone (217) 632-2611. The cost is \$15 plus \$3 postage.

J. D. Colt School's cookbook committee prepared their 1997 cookbook celebrating 30 years of service and a new building addition. The cookbook is spiral-bound and has 79 pages of recipes. To purchase the cookbook, contact Sheryl Denton, J. D. Colt School, 615 East Tyler, Litchfield, IL 62056 or phone her at (217) 324-3565. The cost is \$5 plus \$2 postage.

Petersburg United Methodist Church

PERCOLATOR PUNCH

Debby Toft

2 1/4 C. pineapple juice
1 3/4 C. water
2 C. cranberry juice
1 tsp. whole cloves
1/2 tsp. whole allspice
3 sticks cinnamon, broken
1/4 tsp. salt
1/2 C. brown sugar

Mix juices and water. Place in bottom of a percolator. Put remaining ingredients in the percolator basket. Perk as you would coffee and serve. Can double recipe. Yields: 6 cups.

RASPBERRY FRUIT MOUNDS

Jeanne French

1 (6 oz.) pkg. raspberry gelatin
2 C. boiling water
1 C. applesauce
2 (10 oz.) pkg. frozen raspberries, thawed (do not drain)
1 tsp. lemon juice

Combine gelatin and water, stirring until gelatin dissolves. Stir in raspberries with juice, lemon juice and applesauce. Pour into a 9x13x2-inch baking dish or individual molds. Chill until firm and cut into squares. Serve squares on lettuce leaves.

Optional: Garnish with peeled orange slices, maraschino cherries, pineapple wedges, fresh or canned.

VEGETABLE CASSEROLE

Teresa Atterberry

3 cans Veg-All® vegetables
1 can cream of celery soup
1 can cream of chicken soup
1 roll Ritz® crackers
1 stick margarine
Optional: cheese and 1 T. mayonnaise

Drain Veg-All. Mix the Veg-All with soups. Place in baking dish. Melt margarine. Crush Ritz crackers and mix with margarine. Sprinkle Ritz mixture over top of casserole. Bake 350° for 20-30 minutes or until warm.

PEAS WITH WATER CHESTNUTS

JoAnn Lutes

1/4 C. fat-free chicken broth
1/3 C. chopped green onion
1 (10 oz.) pkg. frozen peas
1 (8 oz.) can sliced water chestnuts, drained
1 tsp. dried Italian seasoning blend

Add broth to skillet. Bring to a simmer and add green onions, peas, water chestnuts and seasoning. Simmer uncovered about 5 minutes, until heated through. Drain, discarding liquid.

HORSESHOE SAUCE

Patty Pillsbury-Heder

1/2 C. butter
1/4 C. flour
1 tsp. salt
1/2 tsp. black pepper
2 C. light cream, or half & half
1/2 tsp. cayenne pepper
2 C. shredded Cheddar cheese, sharp or mild

Melt butter; blend in flour. Cook over low heat. Remove from heat. Stir in rest of ingredients. Return to heat, stirring constantly until smooth. To complete Horseshoe, use 2 pieces of toast, any cooked meat (hamburger, chicken or ham), and French fries; cover with cheese. To make a Ponyshoe, use 1 piece of toast, 1 piece of meat and 1/2 the fries.

PARMESAN CHICKEN

Karen Denton

1 chicken, cut up (skinless) or 6 skinless breasts
salt
pepper
1/3 C. margarine
1/2 C. crushed herb croutons or Pepperidge Farm® herb stuffing
2/3 C. grated Parmesan cheese
2 tsp. chopped parsley

Dip chicken in melted oleo; roll in remaining ingredients that have been mixed together. Place in pan, bake 350° for 45 min to 1 hour, until tender.



LOW-FAT CHICKEN SALAD

Del Milhouse

- 2 C. diced, cooked chicken
- 1 C. halved, seedless red grapes
- 1/2 C. chopped celery
- 1 chopped hard-boiled egg
- 1 T. sugar
- 2 T. nonfat mayonnaise

Mix all ingredients; chill several hours before serving.

CARROT BARS

Paula Pillsbury Throckmorton

- 4 beaten eggs
- 2 C. sugar
- 2 tsp. cinnamon
- 1 tsp. salt
- 1 tsp. nutmeg
- 2 1/2 C. flour
- 1 1/2 C. chopped walnuts or pecans
- 2 to 3 jars carrot baby food

Icing:

- 2 C. powdered sugar
- 1 egg
- 1/2 C. Crisco®
- 1 tsp. vanilla
- 4 T. sugar
- 2 T. water

Combine bar ingredients in order. Bake 30-40 minutes at 350° in large, greased jellroll pan. Icing: Combine powdered sugar, egg, Crisco and vanilla. Mix slightly. Boil sugar and water for 1 minute. Combine with other ingredients and mix until spreading consistency.

BUNNY PATCH DESSERT

Marcia Johnson

- 1 (10.75 oz.) pkg. Sara Lee® poundcake
- 1 (21 oz.) can fruit pie filling (any flavor)
- 1 (12 oz.) ctn. Cool Whip®
- 1 C. coconut
- Green food coloring
- Easter candies
- Marshmallow bunnies
- Jellybeans

Cut cake into 10 slices; line bottom of an 8x12-inch baking dish. Top with pie filling, then top with all of whipped topping. Refrigerate 1 hour, or until ready to serve. Tint coconut pale green with food coloring. Sprinkle over center of whipped topping. Decorate with Easter candies and decorations, like marshmallow bunnies and jellybeans.

HONEY BUTTER

Patty Pillsbury-Heder

- 1/2 C. butter
- 1/2 C. margarine
- 1/4 C. honey
- 1/2 C. half & half

Mix butter and margarine with electric mixer. Add honey, 1 tablespoon at a time. Slowly blend in half & half until smooth. Refrigerate.

Ed. Tip: Instead of boiling an unopened can of sweetened condensed milk (an explosion waiting to happen), Pour the contents of the can into a pie plate. Cover with foil and place in a larger pan of hot water. Bake 1 hour. Chill before serving.

J. D. Colt School, Litchfield**DEVILED EGGS**

Thomas Taylor

- 6 eggs, hard-boiled
- 3 T. mayonnaise
- 1 tsp. prepared mustard
- 2 tsp. sweet pickle relish
- 1 tsp. cocktail sauce
- 1/4 C. finely chopped celery
- Bac-Os®

Peel eggs. Cut eggs lengthwise and put yolks in a bowl. Combine yolks with all other ingredients except Bac-Os. Mix until mixture is smooth. Spoon mixture into hollow of egg whites; sprinkle tops with Bac-Os. Chill and serve.

BROCCOLI CHEESE SOUP

John McDonald

- 1/4 C. butter or margarine
- 1/2 C. chopped onion
- 1/4 C. all-purpose flour
- 3 C. water
- 2 C. coffee cream
- 4 chicken bouillon cubes
- 1 tsp. Worcestershire® sauce
- 2 C. shredded Cheddar cheese
- 2 (10 oz. pkg. frozen chopped broccoli, cooked and drained)

In large pot, melt butter. Add onion and cook until tender. Stir in flour. Gradually stir in water, cream, bouillon, and Worcestershire sauce. Cook 10 minutes, stirring until thickened. (Do not boil). Stir in cheese, add broccoli and cook until heated through.

HIDELBERG SOUP

Pamela Weiss

- 5 medium potatoes, peeled and cubed
- 2 medium onions, chopped
- 5 C. chicken broth
- 1 can cream of chicken soup
- 1 can cream of celery soup
- 1 bag Mediterranean vegetables (frozen)
- 1 lb. Velveeta cheese

Cover potatoes and onions with broth. Cook until tender. Save broth. Measure liquid. Add more to make 5 cups. Simmer vegetables in liquid until they are cooked through. Add potatoes, onions and soups; simmer together at least 1/2 hour. Just before serving, add Velveeta; melt and serve.

CRUNCHY OVEN-BAKED CHICKEN

Jim Clelland

- 2 C. Ritz® cracker crumbs
- 3/4 C. Pamesan cheese
- 1/4 C. chopped parsley
- 1 clove garlic, minced
- 2 tsp. salt
- 1/8 tsp. pepper
- 8 boned chicken breasts
- 1 C. margarine, melted

Combine cracker crumbs, cheese, parsley, garlic, salt, and pepper. Dip chicken pieces in margarine and roll in crumb mixture. Arrange chicken in a shallow roasting pan. Pour remaining margarine over chicken. Bake uncovered at 350° for 40-45 minutes. Do not turn chicken.

ILLINI BARS

Kristin Bitter

- 1 (14 oz.) pkg. light caramels
- 1 pkg. German chocolate cake mix
- 3/4 C. melted margarine
- 1/3 C. evaporated milk
- 1 C. chopped nuts
- 6 oz. pkg. chocolate chips
- 1/3 C. evaporated milk

Melt caramels with milk; set aside. Mix cake mix, margarine, and milk together. Press one half mixture in 9x13-inch pan and bake for 6 minutes at 350°. Sprinkle nuts and chips over top of baked crust. Spread melted caramel mixture on next. Crumble remaining half of crust mixture over cake and return to oven; bake 15 to 20 minutes. Cool well and cut into bars.

UNBELIEVABLE COOKIES

A. Eickhoff & E. Hamby

- 1 C. peanut butter
- 1 C. sugar
- 1 egg

Mix together thoroughly. Roll into walnut size balls. Place on ungreased cookie sheet. Flatten with fork, making crisscross. Bake at 325° for 8 to 10 minutes. Makes 2 dozen. **Note:** It really only takes 3 ingredients. Nothing was left out.

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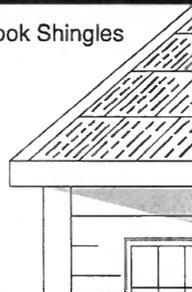
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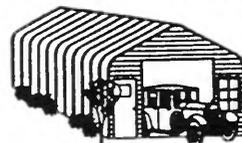
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March DATEBOOK

2/28-1, Blackhawk Chocolate Trail, Carroll, Ogle, Lee, and Whiteside counties, in northwest Illinois. Visit the candy stores, general stores, bed and breakfasts, cafes, bakeries, gift stores, and old-fashioned soda fountains as they put out their chocolate best. There will be plenty of samples, workshops by chocolate artists, games and prizes (chocolate, of course.) (800) 678-2108.

5-7, Knox-Rootabaga Jamm Jazz Fest, Galesburg. (309) 343-1194.

6-8, Boat Show, Keller Convention Center, Effingham. (217) 347-5115.

8, Women's Pictures of Themselves, Freeport Arts Center. To celebrate Women's History Month, a program of original stories and poems by local women. (815) 235-9755.

7, Farm Toy Show, Town Hall, Polo. It's the 14th annual. (815) 946-3273.

7-8, 14-15, Maple Syrup Time, Lincoln Memorial Garden, Springfield. (217) 529-1111.

7, 14 & 21, Photographing Nature, Dickson Mounds Museum, Lewistown. Tim Schroll of Colchester leads three two-hour classes on photographic composition and mechanics of 35mm photography, and offers tips on photographing natural landscapes, wildlife and nature still lifes. Classes include outdoor projects and classroom critiques. Registration required. (309) 547-3721.



27-29, Deer & Turkey Classic & Shooting Sports Show, Peoria Civic Center. About 180 exhibitors serving those interested in hunting, archery, black powder, and firearms. There will be a trophy deer contest, a display of more than 30 freak whitetail antlers, live animals, and performances by Byron Ferguson, a trick-shot archer and entertainer. Seminars will include editors of *Sports Afield* and *Bowhunter* magazines. Lots of kids' activities and a session on becoming an outdoorswoman. (800) 324-3337.

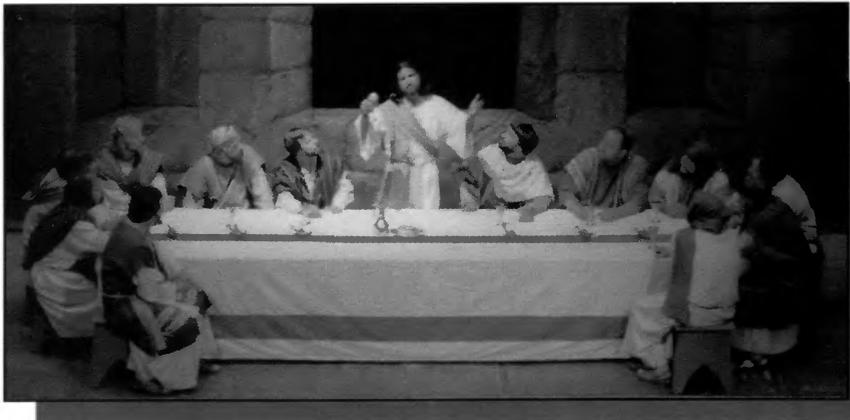


Photo by Steve Smedley, courtesy the Daily Pentagraph

21 & 28, American Passion Play, Scottish Rite Temple, Bloomington. Travel to Palestine, 30 A.D., in a drama presented in more than 50 scenes, all historically accurate. Now in its 75th consecutive year, it is the longest running passion play in the United States. Many cast and crew members are third-generation participants. Call early; all seats are reserved. (309) 829-3903.

21-22, Depot Stove Gang Model Railroad Show, Lena Elementary School. It's the 10th annual model railroad show and swap meet with operating and static displays, including antique, classic, and modern gauges. (815) 369-5581.

14, St. Patrick's Day Festival and Irish Stew Cookoff, Walnut Street, Murphysboro. (800) 406-8774.

14-15, Homespun Memories Quilt Show, Ottawa. Sponsored by the Illinois Valley Quilter's Guild. (815) 496-2891.

14-15, Living History Weekend, Fort Massac State Park, Metropolis. A historical visit with the Massiac Marines, along with crafts and other displays of interest. (618) 524-9321.

15, Collecting Indian Dolls, Dickson Mounds Museum, Lewistown. Eliida Lakota of Bartonville discusses the dolls in her private collection, the cultures they reflect, and her sources of information about the dolls, as well as her collecting experiences. The collection, begun 20 years ago, includes dolls from several tribal areas. Visitors are invited to bring their Indian dolls to discuss. (309) 547-3721.

17, St. Patrick's Day Parade, Main Street, Galena. (815) 777-0467.

27-28, Quiltfest,
Civic Center, Decatur.
(217) 422-7300.

20-22, Antique Tractor Show, Village Square Mall, Effingham. (217) 347-0623.

21, Stewardship Saturday, Cache River Wetlands, volunteer work day from 10 a.m. to 2 p.m. Meet at Cypress Creek National Wildlife Refuge on Shawnee College Campus. (618) 634-2231.

21, River To River Trail Society Hike, Southernmost Illinois. A guided and interpreted hike from 10 a.m. to 2 p.m., rain or shine. Pack a lunch and bring water. \$10 per person. Obtain details by e-mail at bridges@accessus.net or call (618) 658-8409.

28, River to River Trail Workday, Southernmost Illinois. Trail maintenance from 10 a.m. to 3 p.m., tools provided. Bring work gloves and water. Obtain details by e-mail at bridges@accessus.net or call (618) 658-8409.

27-29, Harley Davidson Motorcycle Show, Village Square Mall, Effingham. (217) 347-0623.

28, Rushville Goes Chocolate, downtown Rushville. (217) 322-6277.

28-29, Spring Valley Master Walleye Tournament, Illinois River, Spring Valley. (815) 663-6141. It's the 11th annual.

Illinois Country Living publishes event listings as space allows, giving preference to events of regional or state-wide interest. Event listings are provided by the event sponsors and the Illinois Bureau of Tourism. The magazine assumes no responsibility for the accuracy of information submitted for publication and advises calling ahead to confirm dates and times. To be considered for inclusion, send listings and photographs to Illinois Datebook, Illinois Country Living, PO Box 3787, Springfield, IL 62708-3787.

Ongoing:

Prairie Aviation Museum, Central Illinois Regional Airport, Rt. 9, Bloomington/Normal. Listed on the National Register of Historic Places, this museum boasts a restored 1942 DC3. Open to the public without charge (although donations are accepted and appreciated) 11 a.m. to 4 p.m. Friday and Saturday, noon to 4 p.m. on Sunday. (309) 664-5004.

Shadowbirds: An Exhibition by William Burt, Dickson Mounds Museum, through April 15. Color photographs made in remote marshlands, often in the middle of the night, are featured in this exhibit by the noted nature photographer. "Shadowbirds" are rails, mysterious and elusive birds that inhabit marshland environments, which have become almost equally rare. (309) 547-3721.

Rendezvous in Old Nauvoo, historical musicals, Cultural Hall, Nauvoo. This free historical musical is performed by missionaries each Friday and Saturday in the restored Cultural Hall through May. *Rendezvous in Old Nauvoo* focuses on the personal histories of families and individuals of early Mormons, including Joseph Smith and Brigham Young, who settled Nauvoo before journeying to Utah. Between Memorial Day and Labor Day, there also are performances of *Nauvoo Adventure* nightly except Sunday. This story tells how the early Latter-day Saints turned swamp land into what once was Illinois' largest city. Don't miss the quilt display on the second floor. (800) 453-0022 or (217) 453-2237.

Sporting Dog Trials, Wayne Fitzgerald State Park, Whittington. Weekends running through mid April. Call for schedule. (618) 629-2320.

The Caleb Bike Farm Petting Zoo, West Frankfort. Pet and feed many varieties of exotic animals nurtured by area children. Operated by the Caleb Campaign, a Christian youth ministry. Open daily 9 a.m. to dusk, except Sunday, 1 p.m. to dusk. (618) 937-2348.

The National Coal Museum, West Frankfort. One-hour tours 9 a.m. to 5 p.m. year around. Tour guides are experienced coal miners; visitors descend 600 feet to an underground mine. (618) 937-2625.

Christian County Historical Museum, Taylorville. Walk through a log home, farm home, school, depot, and courthouse all built between 1820 and 1870 at the last stop on Abe Lincoln's circuit. Open 10 a.m. to 4 p.m. Saturdays December through March.

Indian Dolls from the Collection of Eliida Lakota, Dickson Mounds Museum, through April. A display featuring a variety of Native American dolls collected over a number of years. (309) 547-3721.



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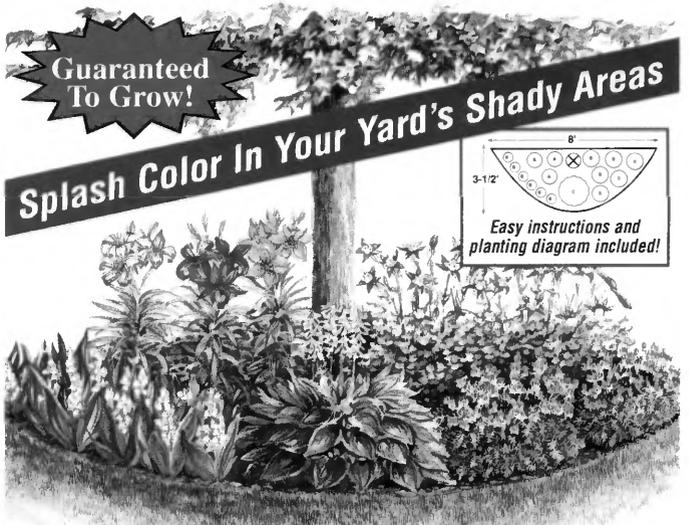
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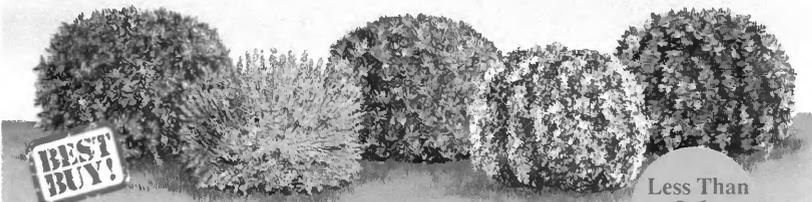
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16 Flowering Perennials

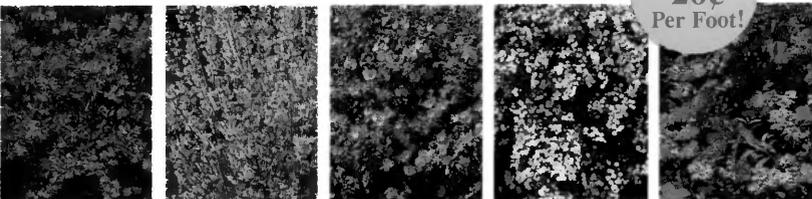
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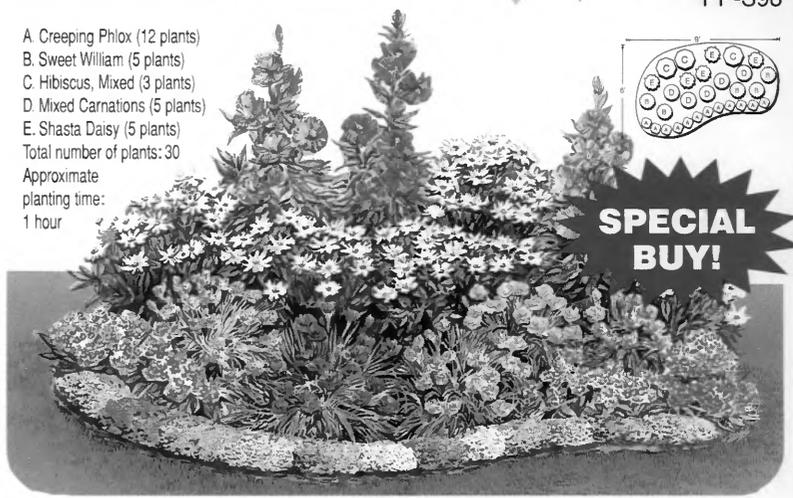
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- B. Sweet William (5 plants)
- C. Hibiscus, Mixed (3 plants)
- D. Mixed Carnations (5 plants)
- E. Shasta Daisy (5 plants)
- Total number of plants: 30
- Approximate planting time: 1 hour



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