

Researchers move one step closer to curbing pests' appetite for crops

Scientists at Kansas State University have discovered that the salivary glands of a tiny insect may hold a key to developing pest resistance in plants. A team of K-State researchers found that by using technology to silence a gene in the salivary glands of pea aphids, the insect's lifespan was cut by more than 50 percent.

"What we found is that when we silenced the most abundant transcript (gene), the aphids died in a few days," said K-State professor of entomology John Reese.

The findings could lead to new ways to control insects in plants, including such important crops as

wheat, alfalfa, soybeans, corn and sorghum, Reese said.

Finding ways to develop insect-resistant crops also brings scientists closer to finding ways to reduce agricultural producers' dependence on pesticides. That helps the environment and lowers growers' input costs.

"If we can figure out how to get a plant to prevent the functioning of an insect pest's gene, we can turn that plant into a non-host for that pest," Reese said.

Reese was part of a research team that included assistant professor of entomology Yoonseong Park and former graduate student

Navdeep Mutti, as well as molecular geneticists.

In the study, which was published in the Journal of Insect Science, the researchers injected siRNA into the salivary glands of adult pea aphids, a pest that can be particularly damaging to alfalfa yields. Aphids treated in this way could not survive more than a few days on plants.

Saliva is important in the interaction between aphids and host plants, Reese said. Proteins, including enzymes of aphid saliva, are thought to play several roles — some of which may overcome a plant's defenses and possibly stimulate plant defenses in non-host plants.

At stake are billions of dollars' worth of crops grown every year in the United States and around the world. For example, a study first published by Iowa State University in 2005 found that soybean aphids alone had the poten-

tial to cause approximately 3 million acres to be sprayed — an economic toll on its own — and to cause yield losses of more than 55 million bushels, meaning an economic impact of more than \$250 million in an outbreak year.

Information on the Iowa State study can be found at <http://www.ipm.iastate.edu/ipm/icm/node/53>.

The K-State research was supported by a U.S. Department of Agriculture grant and by the Kansas Agricultural Experiment Station.

Marketing workshops set

Kansas State University is hosting Risk-Assessed Marketing of Grains workshops in three locations around the state in late February and early March.

The K-State instructors for the workshops are Art Barnaby, K-State Research and Extension farm management specialist; Dan O'Brien, Extension agricultural economist for north-west Kansas; and Mike Woolverton, Extension grain marketing specialist.

Each workshop begins with registration at 8:30 a.m. and the program at 8:45 a.m. The workshop locations and contacts for further information are:

Feb. 26, McPherson, Cedars Conference Center, 1021 Cedars Drive, (620) 241-1523 or dladd@ksu.edu.

Feb. 27, Colwich, Andale Co-op Office, 143 N. Colorado, (316) 796-1314 or jeonard@afcoop.com.

March 4, Dighton, Lane County Fairgrounds, 800-

460-9079.

Attendees' registering in advance by calling or e-mailing the location that is most convenient for them will help ensure adequate materials and lunches are on-hand.

Topics to be covered at each workshop include: 1)

Introduction to Marketing Basis, Including Forward Contracts, Options and Futures; 2) Ethanol Production and the Grain Markets; 3) Risk-Assessed Marketing (RAM) Combines Marketing Tools, Commodity Program Payments, and Crop Insurance.

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Nebraska inventor enjoys retirement

NORFOLK, Neb. (AP) — It's been said that necessity is the mother of invention.

Tom Classen believes necessity has a spouse, too.

Good old-fashioned laziness.

"An inventor is usually lazy," the Norfolk resident said. "He says, 'Why should I work this hard when I can get it done easier?'"

Whether Classen — a retired inventor — has a questionable work ethic is overshadowed by his ingenuity. Since the mid-1960s, Classen has been inventing and patenting devices to make life easier.

It began with an egg-breaking machine.

Classen was employed as a maintenance man at Henningsen Foods in Norfolk and was asked to assemble an old egg-breaking machine that had been built during the World War II era. It had been in storage at the plant.

"It was a monster, and it had a lot of stainless steel casing," Classen said.

After assembling the machine and adjusting the timing so the eggs wouldn't fly off, Classen said, they managed to send one case of eggs through before the machine was bumped and it threw eggs all over.

On his own time, Classen built a new head for the machine that would work in a more efficient way, he said. At the same time, Henningsen Foods headquarters had engineers working on a similar project, he said.

Classen finished his project and presented it to his superiors, who were so impressed they discussed it with the company owner

during a managers meeting in Omaha, he said.

"They invited Mr. Henningsen up to Norfolk," he said. "He finally said, 'Do you think some farm boy out there is going to build a better machine than my engineers?'"

But after seeing the machine Classen invented — which greatly increased efficiency and required significantly fewer man-hours — Henningsen Foods offered him a deal to purchase the machines for \$1,000 each, he said.

"It was replacing 10 to 12 (workers)," Classen said with a smile. "And this machine didn't get brown bottle flu. It was there every morning."

Classen's machine was a success for the company, and he helped install those machines in Israel, Japan, Australia, New Zealand, Belgium, France, England and all over the United States, too, he said.

Classen eventually ended his career with Henningsen Foods, but his career as an inventor continued as the

owner of Classen Manufacturing in Norfolk.

Classen holds the patents on a variety of products, like a type of Realtor sign that comes apart to drive a stake in the ground, a spiral staircase that doesn't require bent pipe, a seeder and a variety of lawn aerators that are used by golf courses all over.

If a lawn aerator is painted bright red or orange, chances are it was Classen's idea.

"I sold (the aerator) out to Jacobsen," Classen said of the company that manufactures it.

Classen even invented a

way to reshape an egg to make it into a long cylinder using a sausage stuffer.

"The cholesterol thing came up and (the interested parties) dropped it, so it didn't go anyplace," Classen said.

Classen chalked up the inability for that idea to grow in popularity to something Thomas Edison, another great inventor, once said: A successful invention is 10 percent idea and 90 percent selling.

"It's true," Classen said. "I don't care if you can convert gold from lead, you'd still have to sell it."

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Dam's Sire: B/R New Design 036

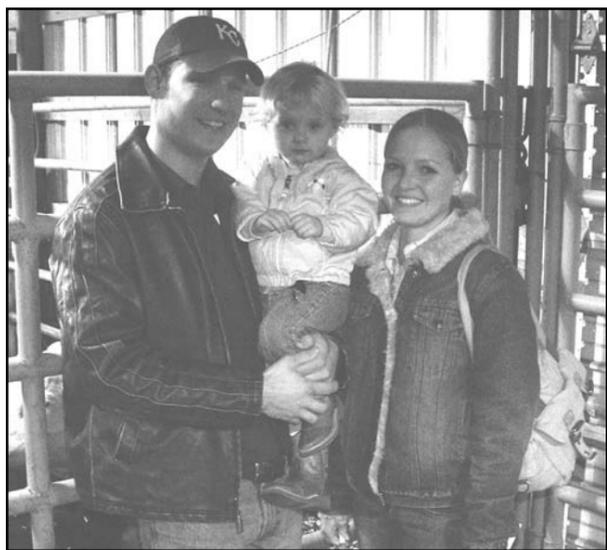
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Clint, Corrine and Austyn Cox from Long Island, Kan., purchased Black Hereford breeding cattle from the J&N Ranch 15th annual production sale at the headquarters east of Leavenworth.

Weed management school to be held Feb. 27

Marshall County will be one of nine locations to host an In-Depth Weed Management School. The In-Depth Weed Management School will be held on Wednesday, February 27, 2008 at the Marysville American Legion. The registration will begin at 8:45 a.m., and the meeting will begin at 9 a.m.

The In-Depth Weed Management School will give farmers, Ag chem and machinery dealers, agency personnel, field scouts, and technicians a better understanding of the following: how weed plants grow and develop; how to identify weeds; how herbicides behave in the soil and their mode of action; weed management techniques that utilize chemical, biological, and mechanical practices.

The In-Depth Weed Management School will feature Dallas Peterson and Dave Regher, K-State Research and Extension Weed Specialists.

Each participant will receive a 3-ring binder containing text of the presenta-

tions, Extension bulletins, and weed identification materials. The weed schools will be submitted for Certified Crop Advisors (CCA) and for Commercial Pesticide Applicators Recertification credits.

There is a charge for this meeting of \$30 to cover the cost of the binder and the lunch. Please pre-register by February 20 by calling the Marshall County Extension Office at (785) 562-3531, or E-mail Michael Vogt at mvogt@ksu.edu, or the Marshall County Extension website at www.oznet.ksu.edu/marshall.

Corn growers call for improvements to House farm bill revenue proposal

The National Corn Growers Association (NCGA) called on the U.S. House of Representatives and the Senate to make the necessary improvements to the revenue program outlined in the House conference proposal. NCGA acknowledges that the farm bill will require a fair amount of reciprocity with leadership and farm groups in order to provide a more robust, market-based farm safety net for producers.

"We are disappointed that the House farm bill proposal does not include a viable revenue counter-cyclical program for corn growers," said NCGA President Ron Litterer. "This framework does not contain a revenue program growers will view as an option. It simply fails to address the changes in our industry, the realities of today's marketplace, and the increasing levels of risk farmers are facing well into the future."

Added NCGA First Vice President Bob Dickey: "We understand the fiscal realities that House Agriculture Committee Chairman Collin Peterson (D-Minn.) and ranking member Bob Goodlatte (R-Va.) must address. We applaud them for their initiative and pledge our support to help them arrive at a bill that fits within the proposed increase in baseline spending."

The House 2008 farm bill conference proposal:

Extends the farm bill to

ten years and eliminates tax increases.

Retains countercyclical revenue option based on the administration's revenue proposal.

Eliminates direct payments for the year 2016 and restores for 2017 to keep the baseline.

Places a hard cap on Adjusted Gross Income (AGI) limits with no payments re-

ceived if AGI is greater than \$900,000.

Establishes 32 million acre total Conservation Reserve Program (CRP) cap beginning Oct. 1, 2009.

Restores CSP funding to at least baseline levels. Enrollment goal is 79.6 million acres.

On a conference call, Peterson and Goodlatte said they had bipartisan sup-

port in the House for the farm bill. Both expressed an inability in working with the Senate to arrive at a bill that the president and the administration can agree on by March 15 when the current farm bill extension expires. At issue is how much money above the Congressional Budget Office (CBO) baseline that the farm bill can exceed.

FARM AUCTION

SATURDAY, MARCH 1 — 11:00 AM

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Quin Star 28' fallow master 26" sweeps, liquid & anh, w/pickers; Kent 42' Series 5 field cultivator; John Deere 535 baler, net wrap & kicker, automatic oiler; White 6100 pull type 8 row planter w/no till down pressure springs, Yetter trash wheels; 1985 Great Plains 24' double disc drill 2 section; IHC 430 wire square baler; Farm-hand accumulator; 2 Farm-hand forks; MF 16' pull type chisel; MF 14' tandem disc; White 588 semi mounted 5-18 plow; MF 880 semi mounted 6-16 plow; Brant 45'-7" PTO auger; Versatile 44'-8" PTO auger; 8' Mankato dozer mountings for 1086; Uni Blend 2 wheel 194 feed wagon w/scale; 3 pt. Little Terry 8' rear blade; BMB 5' 3 pt. shredder; IHC 100 3pt. 7' sickle mower; Richardson 16' V blade; Continental 3 pt. post hold digger; 2 wheel wood side manure spreader; Case 2

wheel side delivery rake; JD 4-16 pull type plow; JD duckfoot; 2 3 pt. bale forks; Diamond 14' packer; Winpower terrace machine; IHC pull type 4 section rotary hoe; Dunrite grain vac; 12 volt drill fill auger.

ANTIQUES & OTHER

1 small trailer load of small items; antique tools; car tags; forge tongs; monkey wrenches; cast iron gate closer; tin seats; several horse drawn implements; iron wheels; Honda air compressor w/5 hp gas engine; Lincoln 220 welder; end wrenches; 3 hp Wisconsin engine needs work; 3-110 gal pickup fuel tanks; shop built cab for 8N Ford; 28" sweep; IHC planter parts; cylinders; 1086 hyd valve; power washer pump; pickup tool box; gas meter; 35 gal new Super HTB oil; 18.4-38 tractor chains; Mapes cattle sprayer; fenders for 276 Versatile; squeeze pump; shop vacuum.

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SUNDAY, MARCH 2 — 10:00 AM

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44 JD pocket ledgers; cigar boxes; Victorian prints; kerosene lamps; blue & white salt box; Red Wing adv jug; brown pitcher w/birds; Rajah advertising bowl; jointed teddy bear; toy boats; windup toys; tin airplane; 1880's child's wagon; school bell; sad irons; cast iron toy stove; tire ash trays; oak card file; embalming wood box; brass gauges; brass castors; yard sticks; wooden levels; Insta Freese ice cream freezer; crate hammer; beer light; newer Coke trays; books & magazines inc.: Colt Police revolver book, 52 Studebaker book, Detective magazines, 1930's chicken magazines; maps; cookie cutters; kitchen utensils; spoon collection; 8 place set Gorham sterling flatware; US Navy 14 K ring; Coins inc.: Olympic sterling set, many commemorative coins, large amount wheat & Indian head pennies, Jefferson & war nickels, Mercury dimes, quarters, walking halves, silver dollars; Foreign coins, First Day issue coins, gold 1907 British, 1915 Canadian, 1889, 1897 Russian coins; assortment of modern hand tools.

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NOTE: This is a very nice auction. We will run 2 auctions part of the day. We will sell the hunting, fishing, guns at 11:00. The coins will sell at 12:30. There is a large collection of fishing items, there are several Indian items. We have combined 2 collections. Check our web site for pictures at www.thummelauction.com.

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Old photo inspires painting project

WACO, Neb. (AP) — Sixteen-year-old Angela Naber walks over to a pew, lays down a notebook and throws off her coat.

The Centennial High School sophomore is dressed in her painting clothes, a long sleeved T-shirt and pair of comfy pants. Her dark hair is pulled back in a single thick ponytail.

She wastes no time and begins covering the altar of her church with an old pink sheet, protecting the completed portion of her project.

Angela, daughter of Greg and Kathy Naber, is on a mission. Since May, the teen has been taking time out of her busy schedule to restore detailed gold accents to the altar, lecterns and

baptismal font of Peace Lutheran Church in Waco.

It was a photograph of her grandparents' wedding that inspired the painting project. When Angela saw the black and white photo she noticed something was different — the altar. Intricate curved lines of the painted wooden altar were accented in gold. She liked the way the altar looked and wondered why the outlines had been covered.

Kathy says they were painted over in the 1970s.

"They thought it was old-fashioned," she said. "Churches around here were just doing that back then."

Usually Angela paints on Wednesday evenings. That's because it isn't a basketball night, there is no FFA, stu-

dent council or any other conflicts.

Thus far she has logged more than 36 hours. It's time well-spent and time that counts toward community service hours at school.

On occasion Kathy has pitched in and helped her daughter here and there with touchups. But Angela wants to do the altar all by herself.

"It's relaxing," Angela says of her undertaking.

Following the inside curves of the delicate arches through their twists and turns takes a steady hand. The teen dips her brush into a small jar of gold paint and begins placing the first coat on an un-

touched portion of the altar.

"It takes two coats to really make it shine," Kathy remarked as she watched her daughter work.

The sanctuary of Peace Lutheran Church recently received a fresh coat of paint. The soft blue tones complement and highlight the white and gold of the newly decorated altar and lecterns.

When Angela has finished on the altar, the church will be all dolled up for its centennial celebration in September.

Angela says she feels good when she looks up and sees her work each Sunday.



First time in attendance from the Lebanon, Kentucky, area, Andy Mattingly, Jimmy Thompson and Payton Thomas looked over the Black Hereford offering before the J&N Ranch 15th annual production sale near Leavenworth. They selected several head of registered Black Hereford breeding cattle for their commercial cow-calf operations.

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Sebelius says dedicated funding to support parks

Public comments are invited at the Kansas Department of Wildlife and Parks' (KDWP) web log (blog) on a plan that would provide open admission to Kansas state parks. Currently, park visitors must purchase a daily or annual vehicle permit to enter the parks.

Gov. Kathleen Sebelius' recommendation would allocate State General Fund (SGF) dollars to replace vehicle admission fee revenues and would provide a permanent funding source to finance capital improvements in state parks.

The first state park — Kanopolis — opened in 1958. Since then, 23 additional state parks have been approved by the Kansas Legislature. In its early years, from 1958 through 1963, the state parks system was funded entirely by the SGF. Park entrance fees were implemented in 1964 and camping fees in 1982. Since 1995, SGF support for parks has been reduced from 60 percent of the annual park operating budget to as low as 19 percent.

As SGF support declined, park fees were increased to bear more of the funding needs of the state park system. Park users have enjoyed some relief since January 2007, when vehicle fees were cut in half.

To finance open admissions to the parks (camping and other special use fees would still apply), Gov. Sebelius' recommendation would allocate \$1.6 million in SGF dollars annually.

To post a comment and view other comments from the public on this issue, visit the KDWP blog, kdwp.blogspot.com.

Take a day trip to a forest — in Kansas

Kansas is home to an ecotone — the name ecologists give to zones of gradual transition.

In Kansas' case, the ecotone links the western end of the central U.S. hardwood forests to the eastern end of the Great Plains. This forest-prairie interface supports an impressive diversity of Kansas plants and wildlife — including nine different types of forest, said Bob Atchison, Kansas Forest Service. The zone provides viewing and sometimes recreation opportunities for nature lovers of all kinds — from hikers and campers to birdwatchers and native-plant fans, Atchison added.

"Schermerhorn Park in Cherokee County — the state's southeast corner — has easy access for up-close observations of an Ozark Upland forest. It's also home for many of our threatened and endangered animals, plus bats and a brilliant-orange cave salamander," the forester said.

The dominant trees in Ozark Upland forests are the white, black and Shumard oaks and the shagbark and bitternut hicko-

ries. The tree canopy is shelter for a multitude of Ozark-type understory plants, such as sassafras, farkleberry and spicebush.

"Having understory plants is one of the main differences between a forest and a woodland," Atchison said. "In fact, a healthy Kansas forest is also likely to contain wildflowers, such as Dutchman's breeches, dogtooth violet and sweet William phlox."

Another Kansas' forest type that is easy to observe is the Eastern Upland, he said. It's on display in east central Kansas, where it's readily accessible around the lake in Miami County State Park.

"The Eastern Upland is a beautiful forest. Sugar maple, basswood, red and black oaks, and bitternut and shagbark hickories are just a few of the trees," Atchison said. "Deer thrive in ours, as do native and migrating bird species. Sometimes you can see eagles perching on the tall sycamores along the Marais des Cygnes River."

Web links to park details and maps are at <http://www.naturalkansas.org/site.htm>.

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THU., FEB. 21 - 5 P.M.
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SAT., FEB. 23 - 10 A.M.
GE engine surplus auction
2016 E. 19th - Winfield, Kan.

Auction includes electronics, home improvement merchandise, industrial equipment, lawn and garden merchandise, office supplies and more.

MON., FEB. 25 - 10 A.M.
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TUE., FEB. 26 - 10 A.M.
Wichita hardwood floor Internet only auction
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TUESDAY, MARCH 4, 2008 • 1 P.M. CST

Farmers Livestock Sale Barn • Washington, Kansas

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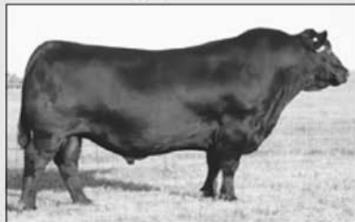
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Tough breeds of livestock disappearing; professor advises saving them before it is too late

Phil Sponenberg, professor of pathology and genetics in the Virginia-Maryland College of Veterinary Medicine, has spent more than 30 years working to make sure certain living pieces of history — some dating to the 15th century — don't become extinct.

Sponenberg's brand of living history comes in the form of various rare strains of livestock, which were involved in events like Christopher Columbus' discovery of the Caribbean Islands and the Spanish conquest of the Americas.

Sponenberg's involvement began with Choctaw horses when he was a college student, and has spread to other kinds of animals through the years. Ancestors of Choctaw horses, Colonial Spanish horses were brought to the Caribbean Islands by Columbus and to Mexico by Hernando Cortés. The horses were stolen from Mexico and rapidly traded north by Pueblo Indians.

These horses were noted by Meriwether Lewis and William Clark during their expedition to explore the Pacific Northwest. In fact, the

Spanish influence extended up to the Carolinas, across the Gulf Coast, and throughout the West.

"The Choctaws were one of the tribes displaced from Mississippi, and they took their livestock with them," Sponenberg says.

The breeding stock has dispersed and not everyone can recognize a rare breed when they have one. Sponenberg received a call about a short horse that was about to be gelded. It turned out that the small horse, Icki, was a Choctaw. "Icki was the end of his bloodline," says Sponenberg, who was able to buy the stallion and return him to a small herd to sire more Choctaw horses.

Sponenberg has also identified another group of the Spanish horses still in the South — "Marsh Tacky" horses, which were used to manage cattle and to chase wild hogs across swampy terrain.

Another Spanish livestock breed Sponenberg has run across in his travels is South Pineywoods cattle — also known as Florida Cracker Cattle. Small, rugged, horned, heat-tolerant, and

disease-resistant, "these cattle are exquisitely adapted to this environment," Sponenberg says. They are also long-lived and productive.

Through the years, Sponenberg has also found more Spanish horses, cotton patch geese, old Spanish goats, and some locally adapted Spanish sheep.

In fact, Sponenberg himself is the owner of a Choctaw horse, and he raises Tennessee myotonic (fainting) goats. The goats are from two old lines from New Braunfels, Texas.

Saving rare breeds Sponenberg says he loves field work — discovering a new pocket of preserved livestock, making friends, and working with the people who manage the animals. His success, he says, is a re-

sult of the friendships and interest he has created — but also because of the strategies he has developed through scientific research.

Along the way, Sponenberg has done work and published strategies specific to rare breeds conservation, documentation, and genetic management.

Now, the American Livestock Breeds Conservancy is providing technical support for recapturing certain animals for pure breeding. The Bureau of Land Management contacts him to identify Spanish-type horses in wild herds to help the bureau conserve the horses.

Sponenberg stays connected with conservation efforts and affiliations and works to establish new relationships. He has collaborat-

ed with the American Livestock Breeds Conservancy since 1978, and with Iberian researchers since the early 1990s.

As a result of his work, several new strains of horses have been added and excluded through detailed blood typing or DNA typing.

About other rare breeds Pineywoods cattle remain from the earliest days of Spanish control of what is now the southeastern United States. Their usefulness to local populations as sources of meat, milk, hides, and oxen persists today.

Cotton patch geese are used extensively to weed cotton fields in the early 1900s avidly consume grassy weeds and leave alone broad-leaved plants

like cotton. Pine Tacky saddle horses are local Spanish-type horses, found in the deep South — only three have been discovered and identified to date.

Gulf Coast or Native sheep — adapted descendants of old family flocks from the coastal deep South — trace back to an Iberian origin and are now being registered by the Gulf Coast Native Sheep Alliance.

Swine — remnants of an old Iberian type, usually black or grey in color, and poorly muscled historically desired as a source of lard and cured meat; often eartnotched, several have fused toes (mulefoot) and wattles (fleshy appendages) on the neck.

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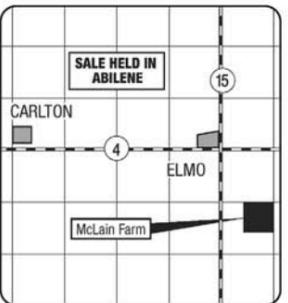
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LEGAL: NE/4 of 16-16-2E. 121.34 acres cropland (74.74 in wheat and 46.6 in spring ground), 34.0 acres of grass (no fencing) with small pond and 2.34 acres waterways. Bordered on east by good gravel and on north by dirt. Predominately Irwin Class II and III loam soils. 2007 taxes were \$1,003.16 based on 158.0 taxable acres.

POSSESSION: Land selling subject to existing tenant rights of Eldon Wuthow.

FSA INFORMATION:

Cropland	Wheat	Milo
Acres	Base Yield	Base Yield
157.7	76.8 39	41.7 48

Wheat Ground: After 2008 harvest. Buyers to receive 1/3 of crop and pay landowner's share of fertilizer and chemical applied after sale date.

The above are FSA estimates only and are not guaranteed.

Grassland: At closing.
Spring Ground: At closing. Ground has had 2 lbs of atrazine applied in preparation for no-till milo at no cost to buyer.

RECREATIONAL POSSIBILITIES:
Farm has a nice combination of grass with pond, terraced upland and location only one mile off blacktop Highway 15. Excellent opportunities for hunting and fishing.

TERMS AND CONDITIONS:
10% due day of sale, with balance due 3-27-2008. If for some reason title conveyance cannot be completed by 3-27-2008, buyer to pay 10% per annum interest on unpaid balance from 3-27-2008 until date sale is closed.

SELLER:
The Raymond and Martha McLain Heirs

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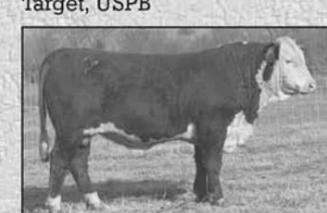
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#42796650
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Dam's Sire: C-S Pure Gold 98170

BW	WW	YW	MM	REA	IMF
+2.9	+58	+101	+24	+45	.00



MCR 1023 Bushwacker 1036
#15727286 • DOB: 9/3/06
Sire: +E&B 1680 Precision 1023 • MGS: #BCC Bushwacker 41-93

BW	WW	YW	SC	Milk	IMF	RE	Fat
+1.5	+52	+89	N/A	+24	+1.27	+1.74	+1.005
SW	SF	SG	SB				
+33.14	+28.05	+23.06	+47.28				



MCR Harlands Domino 663 ET
#42796674
Sire: CJH Harland 408
Dam's Sire: OXH Mark Domino 8020

BW	WW	YW	MM	REA	IMF
+2.6	+51	+80	20	+35	+11



MCR 1023 Alliance 1326
#15727314 • DOB: 10/11/06
Sire: E&B 1680 Precision 1023
MGS: Alliance 6595

BW	WW	YW	SC	Milk	IMF	RE	Fat
+1.8	+44	+83	-1.37	+1.24	+1.42	+1.35	+1.025
SW	SF	SG	SB				
+28.29	+25.13	+22.63	+44.17				



MCR Harlands Domino 694 ET
#42796683
Sire: CJH Harland 408 • Dam's Sire: OXH Mark Domino 8020

BW	WW	YW	MM	REA	IMF
+2.6	+51	+80	+20	+37	+10



MCR 41-93 Bando 5175 996
#15727282 • DOB: 8/30/06
Sire: #BCC Bushwacker 41-93
MGS: #+ SAF 598 Bando 5175

BW	WW	YW	SC	Milk	IMF	RE	Fat
+1.23	+51	+84	N/A	+1.24	+1.23	+1.45	+1.015
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North Dakota woman going green

HORACE, N.D. (AP) — By the end of February, Missy Borgen will likely be off the grid.

The power grid, that is. Borgen will own a new home that doesn't draw a single watt of energy from a power line, much less have a power line near it.

Every aspect of the home, which sits on 40 acres about six miles south of Horace, is designed to be "green," or environmentally friendly.

If energy prices keep rising, it could also make neighbors green with envy.

"This is my break from the stick-and-frame conventional" home, said Borgen, an anesthetist at Fargo's Innovis Health. "This is my dream home."

Borgen, 45, who is now selling her north Fargo home, said she has researched environmentally friendly and energy-efficient home designs for nearly a decade.

She decided not to tie an electrical line to the house as a power backup when she

was given an estimate of \$25,000. For that kind of money, she said, "I could buy a lot of solar panels or whatever else I needed."

The home uses a sophisticated combination of photovoltaic panels mounted in an array that follows the sun, a small wind turbine, and a propane generator for backup just in case to generate electricity, said contractor Bill Worth of Fargo's Worth Construction.

The power is stored in a bank of 12-volt batteries, with power converters to provide 120- or 240-volt power for lights, TVs and appliances, Worth said.

Hot water is provided by a passive solar panel system mounted on the roof, he said.

"It's totally off the grid. There's no power within a mile in any direction," Worth said.

Heat through the North Dakota winter (and spring and fall) will come primarily from a handsome gray Finnish-made soapstone furnace and oven that di-

vides the kitchen and dining area from the living room, Worth said.

Two passive solar panels built into the south wall of the house have fans to blow sun-warmed air through the abode. The large south-facing windows are glazed to let maximum light into rooms so the sun can heat the red concrete floors and warm the home during the day, Worth said. The home's other windows are much smaller and energy efficient to conserve energy, he said.

"The first year is going to be a big learning curve" to figure out how to properly control temperatures, Borgen said.

The house is super-insulated. The walls are 13 inches thick, with rigid foam panels on each side of poured concrete walls that extend from the foundation to the roofline, Worth said. On the second floor, the peaked ceilings and walls were sprayed with a special flexible foam insulation providing 10 inches of insulation.

A berm that's up to 5 feet high in spots shelters and insulates three sides of the home, he said.

Rainwater runoff will be directed to a reservoir just southeast of the house, and will be used to irrigate a large vegetable garden, Borgen said.

Water used for laundry, dishes and washing her three Australian shepherds also called gray water will be recycled during warm weather for irrigating flowers and an orchard that Borgen started planting last spring.

Over time, she intends to make her acreage into a hobby farm, starting with chickens, turkeys and ducks.

"Fowl are a good pairing with an orchard," she said, because they clean up dropped fruit and prevent the spread of insects.

Ground was broken on the house in August. It will have about 3,280 finished square feet of space between the first and second floors, Worth said. Another roughly 2,600 square feet is available for finishing over the triple garage, he said.

Neither Worth nor Borgen would talk about construction costs.

Worth said the prices of the passive solar system or paying for three-quarters of a mile of piping to bring in rural water make the cost of building Borgen's new home anything but typical.

If electrical lines are strung to the area for other subdivisions, Borgen can sell excess energy to a power company, speeding up her payback on the original investment, Worth said.

"If energy costs keep going the way they are, then it doesn't look like such an expensive investment," he said.

"It's an environmental choice," which does not provide an instant, or even a quick payback, he said.

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98 JD 930 Flex w/Contour Master; 84 JD 6620 combine w/2100 hrs; 79 JD 6620 SH w/chopper & 216 Flex; Gleaner 320 Flex; Gleaner N 6-30 Corn head; 89 R60 Gleaner 1900 sep hrs; 83 JD 7720 Combine; 82 JD 6620 4x4 Combine; 76 JD 7700 combine; 85 JD 653A Rowhead; 89 JD 924 Rigid; C/IH 1083 Corn head; 94 JD 893 Cornhead; 98 JD 920 Flex; IH 1020 20' Flex; Gleaner LM 6-30 Cornhead; Gleaner DA 22' Flex; IH 820 16Ω Flex; C/IH 1010 22 1/2' Rigid; Top Sieve for C/IH 1660; 3/8 Round Hole Lower Sieve 1660.

PLANTERS & DRILLS
98 JD 1770 12-30 w/Liquid & Notill (Pending); Kinze 2600 16-31 Split row Planter w/Notill & Row Cleaners; White 6122 12R Planter; 96 JD 7200 8RN w/Liquid, Monitor & Notill; IH 900 6RN w/Liquid; IH 800 6RN; JD 7200 6RN w/Dry Fert; IH 800 6RN w/Dry Fert; JD B Drill w/seed; JD 7000 6-30 w/monitor & Dry Fert; Crustbuster 3800 15' drill (Never used); C/IH 955 6-30 w/Tanks & Yetter openers; IH 800 12R planter; GP 3SF 30 30' Drill; IH 800 13R Bean Planter w/Flexicoil Splitrow Units; 3 New Flexicoil Row Units; IHC 900 Planter 6R Cyclo 30' spacing; GP Solid Stand 15' Drill 7.5" spacing Pull Type; JD 7000 8RW wing fold planter; GP EWD 13' Drill; AC 770 6-30 Air Planter; GP 3pt Drill; GP drill hitch; 12 Dawn trash whips; 12 JD double disk fert openers w/brackets (Like new).

TILLAGE
03 C/IH MRX 690 7 Shank Disk Ripper w/Hyd Gang; JD 630 28' Disk; Sunflower 1433 22' disk; Krause 907 25' Disk; Wilrich 2500 26' Cult; Landoll 1557 7 Shank Chisel; Sunflower 4301-14 7 Shank V Ripper; JD 230 26' Disk; JD 235 24' Disk; Sunflower 1430 22' Disk; IH 496 25' Disk; Case 9 shank Soil-saver; Landoll 28' Flatfold cult; IH 153 6-30 cult; JD 335 30' Disk; C/IH 496 22' Disk; JD 726 18' Finishall; 2 Ford stiff shank cults; Glencoe Soil Saver 9

shank; Wilrich 2800 22' Field Cult w/tandems and harrow; IHC 490 21' Disk w/depth control, needs repair; JD 330 21' Disk; JD 900 7 shank V-Ripper; 9 shank V-Ripper w/Dual Gauge wheels; Landoll 850 30' Finishall; Krause 25' Finishall; IH 6000 Consortill; DMI NH3 Applicator 11 Knife w/openers Pull Type; NH3 Applicator 9 Knife 3pt, needs repair; 30' Tine Tooth 3 Bar Harrow for Disk; JD 5x16 145 plow; Int. 5x18 720 plow; IH 540 4-16 plow; JD 1350-1450 4btm plow; Oliver 545 4 btm plow; IH 700 onland spring trip plow; JD 22' 3PT Cult w/NH3,

TRUCKS & TRAILERS
95 FLD120 Freightliner, 3176 Cat 10 Speed, 560K, Excellent Rubber; 96 377 Pete w/Detroit & 9 speed; 90 KW T 600 w/22' Combo Grain & Silage Bed, w/Tarp, Extensions, Hendrixson Susp. & 12.7 Detroit; 95 GME Top Kick w/16' B&H Auto 366 (Very Nice); 69 IH F 2010A Gas 10 speed w/2 speed aux; Boss 20' Gooseneck stock trailer; 07 Pro Trax Gooseneck 28' trailer w/beavertail & foldup ramps; 00 Cherokee 51' dropdeck Air Ride Trailer; 75 Evans 35 Ton Lowboy Trailer; 89 Travelong 7x24 Gooseneck stock trailer; Heavy duty 5x7 utility trailer w/lights & 2" ball; JD Header Trailer; 05 Frontier 30' Header Cart w/Lights; Adjustable Sprayer Trailer; 2002 Load Trail 30' Gooseneck Trailer; 1984 F-150 Ford w/302 Auto; 1961 Chevy 16' Bed & Hoist; Stock Trailer 5x16; PJ 40' Gooseneck Flatbed, 2 5/16 Ball w/Tandem Duals & Semi Stem.

HAY, FEED & LIVESTOCK:
1996 Hesston 4755 3x3 Baler w/Ejector & Rolling Chute; 1984 IH 3650 round baler w/Electric Control; Knight Reel Augie 3375 Feed Wagon; Gehl Swather, Deisel 14'; JD 35 Chopper (New spout & new knives); NH 358 Grinder Mixer (Nice); NH 1112 Swather C/A; NH 258 & 260 Rakes; OMI 10' Wheel Rake; JD 3960 w/3RN; JD Pickup Head; IH 1300 3pt Mower; JD 1600 Swather; 347 Baler; Gehl 1870 Baler; JD 535 Baler; Gehl 120 Grinder; NH 1470 Hydro-Swing Windrower; Hesston 1160 Hydro-Swing Windrower; C/IH 8460 Baler (Nice); C/IH 8465A Baler; Gehl 520 Wheel Rake; JD 700 Hyd. Basket Rake; NH 451 3pt 9' Mower; JD 3RN Chopper Head JD 450 9' Trail Mower; JD 780 Spreader; Hesston BP 20 Bale Processor; Hesston 5580 Baler 1981 Hesston 5580 round baler; NH 273 Square Baler (nice); Gehl 99 High Throw Blower; Vermeer 605 F Baler; IH 16 Rake; Gehl 3pt Wheel Rake; Grapple w/Magnum Mts; 40' Small Bale Elevator; 15' Small Bale Elevator; Cattle Headgate; Hinke Double Roller Mill.

WAGONS & CARTS:

2 JD 714A Forage Wagons Better built 3400 honey wagon w/Hyd driven pump; 700 gal Go Between Spray Cart; Parker 2600 Gravity Wagon 12 ply tires 14" brush auger w/hydraulic drive Electric shut off shur-Lock Tarp; 4 Wheel Dump Wagon w/hoist; JD 1210 Grain Cart; Gooseneck Tug Cart w/1000 gal Tanks & Hyd Pump & Switches; Brent 420 Grain Cart; Daykon Gravity Wagon 12 Ton Gear; 2 JD 714A Forage Wagons,

SPRAYERS & BOOMS:
2002 Bestway Field Pro II w/1200 gal Tank & 80' booms, raven monitor & outback Lightbar; 45' 3pt Folding Sprayer w/foamer; Pair saddle tanks & brackets; MT 3000 Radar & Valves; Hyd Pump; Ash 45' 3pt Booms.

SKIDLOADER, LOADERS & SCRAPERS

Dual 3600 Ldr w/JD mts; Cat 70 Scraper w/Hyd Conversion & Pushoff; New 7' Loader Bucket; New 6' Loader Bucket; Dual 3655 Ldr w/8' Bucket & JD mts; New 10' Landleveler; Koyker K5 Ldr w/JD mts; JD 155 Hyd Blade' JD Grapple Fork; JD 146 Ldr w/6' bucket; Farmhand XL 1140 Loader w/8'Bucket, Grapple & magnum Mts; DA 466 Ldr; JD 158 Loader; JD 48 Loader; JD 46 Ldr J;D 855 Dozer Blade; Rhino 1400 Hyd Blade; Dual High Lift Ldr w/IH mts; KD 7400 Ldr; GB 800 Ldr; JD 8' Bucket for 58 Ldr; Skidldr Bucket Adapter to Ldr; 3pt Bale Prong for Ldr; Lahman Gas Skidsteer w/54" Bucket.

MISCELLANEOUS:
Danhuser Post hole digger; Hydraulic wood splitter; Better built 1200 GPM adjusting pump; Dageleman 534 Dozer blade; Blue Jet 40' NH3 Applicator; 1972 Glasstron Boat; Mayrath 8x62 swingaway Hopper; Woods 6' 3p Blade; BMB 6' Cutter; Dageleman HD 10 w/JD mts 10'; Pair 260 Gal Saddle Tanks; New Taylor 6' 3pt Cutter Koyker 10x61 Auger; Westfield 8x71 Auger; 3 Snyder 1500 Gal Poly Tanks; 1100 Gal Poly Tank Landpride 15' Flex Finish Mower (needs work); WAC 90" Finish Mower (New); AC Planter Markers; Hobart Beta Mig 200 Wire Welder; Miller Blue Star 225 AMP Welder W Tecumseh Eng.; Cab off JD 4020; Saddle Tanks 200 gal each Mid mount w/14" frame bars; 110 gal Fuel Tank Aluminum Diamond Plate; 110 gal Fuel Tank Steel w/12 volt pump 24.5x32 Tire; 18.4x38 Duals; 18.4x34 Duals; Rhino 7' 3pt blade; Spray or Tug 700 Gal Tank; JD Running Gear; Westfield Auger w/Swing Hopper; Cat 3N Quick Coupler; BMB 10' HD 3pt Hyd Blade; 50' 1/2" Log Chain (no hooks)

Terms: Cash or good check with proper I.D. day of sale. No items removed until settled for. Auction Company or owners will not be responsible for accidents or loss. Statements made day of sale take precedence over written material. As we ourselves conduct business up until sale day, additions and deletions are possible. All items sold as is, where is, unless otherwise stated. All sales are final between buyer and seller. Lunch By St. Malachy's Guild

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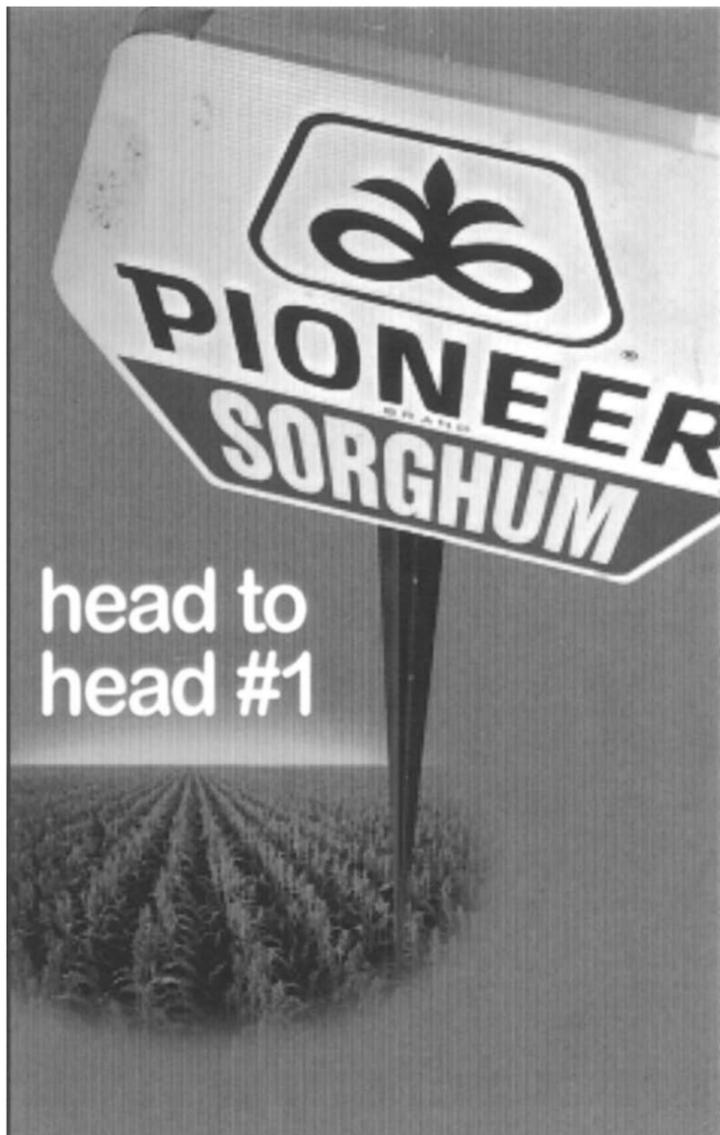
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