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**CMH Industries, Inc. Announces  
New Fuel Additive**

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# Varmit getter

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No poisons are used, making it safe for organic applications. This method kills instantly by concussion so it is more humane than poisons or traps, for pennies a shot. Our device can be backfilled in tunnel systems/burrows, which contains the concussion, and controls the noise level making this device very cost effective to operate. If you hear a "bang" your losing 75% or more of your concussion kill. In sensitive areas such as sidewalks, underground irrigation and foundations, there can be a suffocation method applied without ignition.



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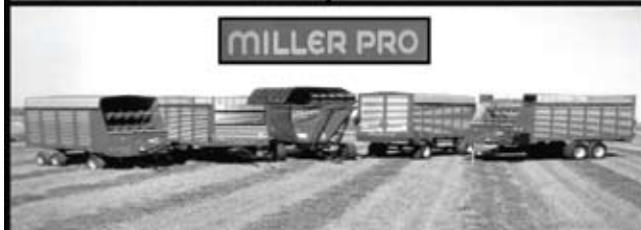


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Clean-tilled potatoes. Photo by James Luzader, USDA Natural Resources Conservation Service

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## Western Farm, Ranch & Dairy Magazine

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## Got Rodent-Rage?

The VARMITGETTER™, a clever gas operated pest control system, is a device for controlling the populations of burrowing rodents, such as gophers, ground squirrels, moles and even badgers, thus greatly reducing the damage they cause to crops, irrigation systems, and landscaping. It is designed for efficiency on large acreages.

VARMITGETTER™ can't build them fast enough. Business is really "booming." In fact, it's best to order before their spring rush begins.

Farmers, ranchers, and dairymen are eager to watch demonstrations of the VARMITGETTER™ destroy pesky varmints on their properties. VARMITGETTER™ currently has distributors across the U.S. and Canada and it continues selling well internationally to folks in all facets of agriculture and land use.

The VARMITGETTER™ operates by forcing a controlled ratio of propane and oxygen into the pests' burrows. With one push of the ignition switch, the resultant blast destroys all the rodents plus their tunnel system. As an added safety measure, an electric cutout switch prevents ignition while gas is being discharged. A high voltage converter, situated in the applicator, keeps the ignition spark away from the operator at the control box. For added safety, the entire unit is equipped

with no less than three flash back arrestor check valves to eliminate any chance of fire traveling up the gas lines.

"Our device is designed to be back-filled in tunnel systems/burrows, containing the concussion, and controlling the noise level," VARMITGETTER™ explains, "making this device very cost effective to operate. If you hear a 'bang,' your losing 75%, or more, of your concussion kill. Because this method kills instantly by concussion, it is more humane than poisons or traps, for just pennies a shot."



What this means to the consumer is the VARMITGETTER™ is more economical, in addition to being more effective. Priced \$700 less than the competition, buyers are getting a lot more bang for their buck, so to speak. VARMITGETTER™'s improved design is likewise more economical on bottled oxygen use. Each

blast requires less oxygen to support the combustion of the propane.

On VARMITGETTER™'s website ([www.varmitgetter.com](http://www.varmitgetter.com)), they list 21 advantages of their product over competitors' hand-held models. Most notably, perhaps, is the improved design that allows remote detonation (as much as 25-feet from the burrow). Operators are no longer subjected to what they call "ground zero fragmentation blasts." Additionally, the superior design of the VARMITGETTER™ eliminates dust-covered clothes and allows the owner to view its effectiveness from a safe distance.

The improved design is more easily portable, providing a more consistent gas mix to increase effectiveness, and it gets gas into the burrow much faster for improved results. In fact, these improvements allow VARMITGETTER™ to confidently claim they're able to destroy 100 feet of varmint tunnel in one blast and they've taken out 130-150 feet in a single ignition.

To learn more about the multiple VARMITGETTER™ advantages or to see actual online demonstration footage, please visit the website at [www.varmitgetter.com](http://www.varmitgetter.com). For inquiries or orders, you may contact VARMITGETTER™ at their Payette, Idaho office: 1.877.982.7648 (1-877-x varmit). 🐭

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# CMH Industries, Inc. Announces New Fuel Additive

**C**MH Industries, Inc. has introduced a new fuel additive that increases fuel efficiency and lubricity, while decreasing toxic emissions. The additive, CA-40, has been tested in both the laboratory and the field, and has shown a remarkable decrease in fuel consumption, in addition to its other benefits.

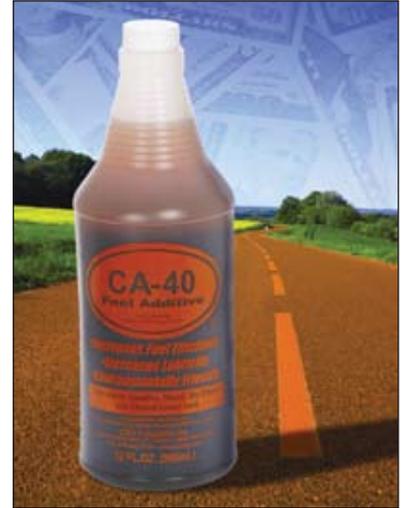
Unlike other additives, CA-40 is not a fuel conditioner. Calcium is one of the key ingredients in CA-40, and is kept in suspension in fuel via the blending process used in the creation of the additive. When CA-40 is added to gasoline or diesel, the calcium bonds to the hydrocarbons, causing the fuel to burn more efficiently. The result is a longer, stronger push on the piston, causing an increase in horsepower.

Because of the lubricating qualities of cal-

cium, CA-40 has been shown in tests to increase the lubricity of gasoline by nearly 200%, and the lubricity of ultra-low sulfur diesel by approximately 350%.

Emissions are reduced by CA-40 because more of the hydrocarbons are burned in the cylinder. Vehicles using CA-40 have been tested showing zero un-burnt hydrocarbons at the tailpipe. Emission tests have indicated a reduction of 15% CO2 and nearly 50% Nitrogen Oxide in vehicles using CA-40.

The vast majority of CA-40 users report a decrease in fuel consumption averaging 10-15%. CA-40 has been tested in gasoline, diesel, bio diesel, and ethanol fuels. It is sold by the quart and by the gallon. One gallon of CA-40 treats roughly 2000 gallons of fuel. CA-40 is produced at CMH Industries' production facility located in Detroit Lakes, Minnesota.



For information: <http://www.ca40g.com>, Contact: [information@ca40g.com](mailto:information@ca40g.com)  
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# Egbers on Super Edge

“There just isn’t enough we can say about the Super Edge Auger Flighting” Agrees Doug and Laura Egbers, owners of Egbers Flighting & Supply L.L.C. The Super Edge is created in the rolling process. This is a cold rolling process so the steel is not heat treated. “This lets the steel retain its strength.” States Doug. Because of how the flighting is made, the outside edge is thicker than your common market flighting or plain flighting as they call it. Super Edge Auger Flighting has approximately 50 thicker outside edge. It gives longer wear and longer life of the auger.

And Egbers knows their augers. Their repair and fabrication division has years of experience in re-flighting and balancing auger sections. “It just makes good sense to replace the auger flighting instead of buying a new auger section.” Confirms Doug, “New auger sections can be pricey and the Super Edge Auger

Flighting is priced to sell.” Along with their repair’s Egbers offers a wide assortments of replacement parts and tubing. They have you basic inside tubing, pipe, rolled tube for grain cart unloading augers all the way up to 40 ft. lengths for transport augers. “We’ve always thought freight and shipping to our customers was a problem, we can ship pretty much all the replacement parts a customer needs from here.” States Laura “That way all your parts come from one location instead of several.”

New service for Egbers is their ability to balance combine rotors. “We’re always looking for new products and services for our customers. These rotors can be balanced at a fraction of what a new one costs,” Says Laura.

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# Ag Expo Grows And Changes

If the 8th annual Willamette Valley Ag Expo is any indicator of the agriculture economy in Oregon things must be great. The Expo, scheduled for November 18th through the 20th in Albany reports an increase in vendor sales of over 20% over last year, with dozens of new companies joining the Show this year. "We had over 90% of last year's vendors return and have had a lot of interest from new companies both in the Willamette Valley and regional or national suppliers", said Scott Ingalls, producer of the event.

The Expo features over 130 Ag related suppliers, services and equipment dealers as well as offering CORE certification training and a large antiques farm equipment display.



There will be a working demonstration of GPS controls in front of the facility, presented by Fisher Implement. Fisher Implement will be offering the precision ag ride and drive in the east parking lot again this year.

The Willamette Valley Ag Expo is produced by Ingalls & Associates for the Willamette Valley Ag Association, a non-profit group formed and managed by vendors within the Expo. The Association uses a percentage of realized profits from the Expo to provide \$1,000 scholarships to Oregon college students studying in the agriculture field. This year the Association awarded seven such scholarships. Those students are expected to be at the vendor breakfast during the Expo if their class schedules permit.

The Expo runs Tuesday, November 18th from 9 to 6, Wednesday, November 19th from 10 to 9 and Thursday, November 20th from 10 to 5. Admission is \$4 which includes a \$2 discount on the 'Ag Bar-B-Que Lunch'. Parking is free. More information including sle items, class schedules and vendor listings is available at [wvaexpo.com](http://wvaexpo.com).

Contact: Scott Ingalls, 866-904-6165, [scott@ingallsagency.com](mailto:scott@ingallsagency.com)

Eighth Annual



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# Kids Can Climb In Toy Maker's Corrals

The young sons that inspired Jerry Sims to build a toy cattle-doctoring chute, now help Sims design and build toys for others.

"It was the best babysitter ever," Sims recalls about the chute he made out of wood for his sons. "The boys played with it every day."

Sims raises beef cattle for a living, but on the side, he is The Happy Toy Maker of Happy, Texas. All his creations relate to handling cattle and horses. His toy corral and loading chute is large enough (128-in. perimeter) for small children to get inside to play. Corral panels are 8-in. tall and the adjustable loading chute is 14-in. tall. Made of 3/8-solid steel rod and spot welded, they are practically indestructible, and they can be easily moved on wooden wheels.



"The loading chute can be personalized with names, brands and short messages," Sims says. "We use a computerized plasma torch to personalize each set to your needs."

Sons Wyatt, 11, and Wesley, 13, set up the computer for the torch as well as help cut metal rods for the corrals. While the corrals are usually personalized with brands, some customers request messages such as "Love, from Grandma." One proud grandpa custom ordered solid panels so he could include each grandchild and their birthdates.

The corral weighs 52 lbs. and costs \$300 plus shipping. He also sells sets that come apart and can be purchased by the panel.

While some customers purchase corrals for display, most purchase them for their children to play with.

"They'll never tear them up, unless you run over them with the truck," Sims says. "They'll have them for their grandkids."

Check out Sims' website to see his selection of other toys, which includes a round bale trailer that hauls 14 wood round bales and dumps, a straight deck cattle trailer, a Quonset barn, a \$50 trailer that stores and hauls the panels for the corral and many more items.

"The boys are making a half-top trailer with a bullet nose," Sims adds proudly.

Sims recently developed a 3- by 7-ft. riding arena complete with a roping box that opens with springs, bucking chutes and a return alley. The arena takes more material and time and is more expensive: Call Sims for current prices.

"I love making toys," he adds. "I've lived in Happy for 44 years. Everybody kids me about being the happy toy maker. I'm kind of like a big kid that never grew up."

Jerry Sims, P.O. Box 548, Happy, Texas 79042; ph 806 433-2123; thehappytoymaker@midplains.coop; www.thehappy-toymaker.com

Article courtesy: FARM SHOW

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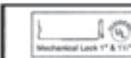
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# The McGregor Company

More than 120 years ago four McGregor brothers got their start as open range ("tramp") sheepmen in the early 1880's. They weren't always welcomed as they trailed their sheep from scabland winter pastures to the surrounding mountains. "Cattle owners are running from a pestilence—sheep," wrote a growly Yakima cattleman of those pioneer days. My great-uncle, John, recalled that the

biggest challenge in those years of living in tents and traversing open range was "the farmer and his shotgun".

The McGregor brothers took to the plow themselves and began growing wheat in 1901. They began raising cattle, in addition to sheep, on their range eight years later. They incorporated their ranch as McGregor Land and Livestock Company in 1905. At the McGregor ranch, headquartered at

Hooper, today we raise cows and calves on scabland pastures and wheat on the adjacent hills near the confluence of the Palouse and Snake Rivers.

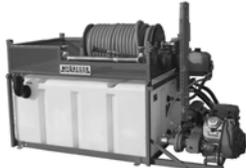
We were pioneers in the fertilizer business beginning fifty-five years ago as a sideline to our ranch general store. My cousin, Maurice, saw great promise in the soil fertility trials a Washington State College agronomist, Harley Jacquot, had done. When public funding for Harley's research ran out, he came on board as our full-time ranch agronomist. My father, Sherman, then a clerk at our store, started supplying neighbors with fertilizers. Dad and Harley organized research tours on the ranch every summer, attended by hundreds of farmers from across the region.

Today we're proud to serve farmers and ranchers in many communities across eastern Washington. We've worked with cattle raisers since I was a toddler—providing nutrition supplements, battling invading weeds, and helping produce the best results on pastures, hay fields, and range. My Dad's philosophy of hiring dedicated local people, investing in the communities we serve, and building long term relationships with customers is deeply entrenched in our organization. The dedicated people who are The McGregor Company join me in saluting our cattle raising neighbors. We're relative newcomers, with ninety-four years as cattlemen, compared to many of those we serve. We believe that farmers and ranchers are the cornerstone to our Pacific Northwest economy and are the unsung environmental leaders of our region—as good stewards of the prairie hills and canyons they manage. We tell of your achievements and of how proud we are to be of service to you every time we get a chance.

On behalf of my colleagues in each of the rural communities we serve, we the people of The McGregor Company are mighty proud of our neighbors who produce the foodstuffs that feed people around the country and the world.

Respectfully,  
Alex McGregor





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MidSouth Minitrucks LLC has been importing mini trucks for over two years now. The popularity of these trucks has

grown exponentially. They started out importing 1-2 containers a month, and with the growth in demand for these trucks, they now import 10 to 20 containers per month. They are very proud of their Japanese partners who have done an excellent job in supplying Mid-South with reliable trucks.

MidSouth Minitrucks LLC has a retail market in central Mississippi where they keep 12-20 trucks in stock year round, but they are now primarily wholesalers and sell container loads to businesses, ranches, parks, hunting

clubs, catfish farms, airports etc. Mid-South Minitrucks can have the containers shipped directly from Japan to your door. They can also wholesale from their lot if you do not want an entire container load, so be sure to ask them about their wholesale pricing.

For more information, you can visit their website at [www.midsouthminitrucks.com](http://www.midsouthminitrucks.com), email them at [midsouthmini@aol.com](mailto:midsouthmini@aol.com), call them at (601) 919-6365 or (662) 310-0623, or write to them at MidSouth Minitrucks LLC, PO BOX 632, Winona, MS 38967. 📧

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# New Mexico Rancher Combines Renewable Energy with Tradition

By: Janet Bridgers

**D**an Flitner and his family have been ranching for four generations. Four years ago they moved from Wyoming to New Mexico to raise organic, grass-fed beef. They now have 75 head of cattle, and 30 quarter horses, on a property 35 miles east of Las Vegas, New Mexico.

"The property we purchased is off the power grid," said Flitner. "We looked at powering the house using a generator and diesel fuel, and even researched the cost of a power line, but renewable energy came out on top and we're very happy with the decision," he said.

"In fact," he added, "we're trying to improve our energy profile all the time and do more and more things, some new, some traditional."

Flitner described the family's thought process behind the design of the electrical system. "We designed a big system. We decided to spend extra on it because we want this to be a permanent resi-

dence. It's hard to live out here, and we didn't want to be making huge sacrifices in terms of comfort and capability. We have a house, shop and office that all need to function to run the ranch."

"We have two kids and anticipated our needs becoming greater, not less, while the kids are growing up. We live fairly normally with a TV and a computer. We don't want for much," he confided.

The system that Flitner and his family installed is a 2.8kw photovoltaic electrical system, purchased through Energy Concepts, Las Vegas, NM, that charges batteries with a generator back-up for stormy days. According to Flitner, the generator probably runs 75 – 100 hours a year.

The solar system was installed after a complete remodel of the 50's-era ranch house. "We rewired and redid everything. We reinsulated the walls and ceiling, using conventional fiber batting. Then we blew insulation into the ceiling. It's very tight now. We also replaced all the windows

and bought energy-efficient appliances. Actually, it might have been cheaper in the long run to start from scratch, but I'm glad we didn't," he added.

In the near term, Flitner described the family's future plans to add an outdoor furnace for hot water and home heating that can run on wood, solar or propane. "We have a lot of pinon and juniper and lots of sun," he said. "And in another two or three years, we may add a wind turbine. Our water supply now comes from a traditional wind mill." The horses are part of the ranch's operations and Flitner is looking at acquiring a wagon for hauling. Flitner's Internet service comes via satellite, but his telephone is a land line—it's the only wire that connects to the house." So it's all a blend of new and traditional, but there isn't a decision that we make on the ranch that doesn't involve power decisions."

Contact: Janet Bridgers, 805 487 2999, janetmbridgers@yahoo.com

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# WIND ENERGY: Reliable, Affordable, Renewable Energy For Today

By the American Wind Energy Association

In 2007, the U.S. wind industry paid more than \$30 million in royalty payments to rural landowners across America. Farmers, ranchers and other owners of windy land are benefitting from a great energy boom in recent years as wind power has entered the mainstream U.S. energy supply.

As one of the nation's fastest growing energy resources, new installations of wind electric generating capacity accounted for 35% of all new capacity installed in 2007, second only to natural gas. The wind market grew by 45% in 2007 – tapping into a vast domestic energy resource to generate more than 16 billion kWh (enough to serve 1.5 million average homes) of clean, affordable and reliable electricity for communities all across America. More than 5,200 megawatts (MW) of new wind power generating capacity — a capital investment of over \$9 billion — were installed in 2007, bringing U.S. wind electric generating capacity to more than 16,000 MW.

The market drivers for wind are strong: proven technology, attractive cost, vast, domestic resources, investor interest and rising consumer demand. Another key factor over the last several years has been consistent availability of the federal renewable energy production tax credit (PTC), which has been very effective at spurring investments in wind. The PTC is currently set to expire at the end of this year (December 31, 2008), creating tremendous uncertainty about

wind development set for 2009. Extended debate – and continued failure to act – in Congress is placing more than 75,000 jobs and over \$11 billion in wind investment at risk.

In the face of the possible PTC expiration, installations for wind are continuing at a breakneck pace. Demand for wind power is strong in many states, including Texas, Illinois, Iowa and Colorado. “Wind power plays an essential role in providing Texans clean, affordable and reliable energy,” said Texas Governor Richard Perry. “We hope to continually expand our generation capacity far into the future.” Texas is the nation's number one market for wind power, installing 1,618 MW of capacity in 2007. The Texas panhandle is central to oil tycoon T. Boone Pickens' plan for wind to deliver 20% of the nation's power supply in the coming decade. Pickens intends to build a 4,000 MW wind plant in Pampa, Texas, along with transmission lines to move power generated there into the cities where electricity is needed.

During the first two quarters of 2008, wind's rapid expansion has continued nationwide, with 3,900 MW of wind power capacity added during the first half of the year. Indeed, the outlook for wind power is bullish, and market growth could be even stronger over the longer term, depending on how soon and how successfully constraints and obstacles to its growth are rolled back and whether strong, long-term policies are put in place to support its

development.

## The 20% Wind Scenario

Wind-generated electricity currently provides just 1% of the U.S. supply, but with strong policy leadership, the wind industry is ready to meet 20% of our nation's electricity demand by the year 2030.

A recent technical report by the U.S. Department of Energy (DOE) assesses the challenges and benefits of meeting 20% of electricity demand using wind ([www.20percentwind.org](http://www.20percentwind.org)). DOE found that such a goal is “ambitious but feasible” using existing wind technology. Wind plant costs and performance are projected to improve modestly over the next two decades, but no technological breakthroughs are needed to achieve this milestone.

“As climate change, jobs and energy security rise to the top of the national agenda, we have authoritative confirmation that wind power can make a significant contribution to all these problems,” said Jim Walker, President of the American Wind Energy Association and Vice Chairman of the Board at enXco, a leading renewable energy developer. “It will take leadership to follow the roadmap, but the vision presented is good news not just for the wind industry but for the nation.”

To implement the 20% Wind Scenario, annual installations of wind power would increase to more than 16,000 MW of new capacity by 2018 and continue at that rate through 2030. Forty-six states would experience sig-

nificant wind power development in this scenario, as the U.S. more than triples its current wind plant construction capabilities.

This is great news for rural communities in the nation's "wind belt," which stretches from Texas north to the Dakotas. Ranchers and farmers in windy areas of the U.S. can develop a long-term source of supplemental income by allowing wind farms to be developed on their property. In addition, new manufacturing facilities are being built in every region of the country, generating a positive ripple effect on the economies of small towns and rural counties nationwide.

DOE's report finds that, during the decade preceding 2030, the U.S. wind industry could:

- support roughly 500,000 jobs in the U.S., with an annual average of more than 150,000 workers directly employed by the wind industry;
- support more than 100,000 jobs in associated industries (e.g., accountants, lawyers, steel workers, and electrical manufacturing);
- support more than 200,000 jobs through economic expansion based on local spending;
- increase annual property tax revenues to more than \$1.5 billion by 2030; and
- increase annual payments to rural landowners to more than \$600 million in 2030.

#### **Mainstream Technology**

Modern wind turbines are high-tech, advanced, efficient machines. Utility-scale turbines feature sophisticated electronic equipment and controls and advanced composite materials that allow the turbines to reap ever-larger amounts of energy from the winds.

Research and development over the last several years has yielded greater generating capacity per turbine and greater efficiency in manufacturing, factors that have reduced costs considerably. The average wind turbine installed in 2007, at 1.6 megawatts of capacity, is twice as powerful as the average wind turbine installed in 2000 (760 kilowatts (kW), or 0.76 MW).

The largest wind turbines installed in the country (in California and Texas) have a capacity of 3 MW per turbine.

Manufacturers are designing larger turbines, up to 5 MW, mostly for offshore installations. These modern utility-scale wind turbines are tall—reaching some 400 feet high to the tip of the blade – which enables them to capture premium wind resources at high altitude. The turbines' computers collect and process over 200 types of data, from wind speeds and oil temperature to voltage dips on the grid, all for the purpose of harvesting the wind efficiently and reliably to maximize power production.

#### **Affordable, Reliable Electricity**

At good windy locations, a single 1.5-megawatt wind turbine generates enough electricity to power 350-450 average American households, year after year, with NO FUEL COSTS.

The cost of wind power is attractive because it is stable: once a wind farm is built, the cost of the power that it generates is predictable because there is no fuel cost. For a utility, acquiring wind power is therefore similar to locking in a long-term, fixed-rate mortgage. More wind power can therefore help stabilize electricity prices.

Worldwide consumption of raw materials and other factors are driving up capital costs for all electricity generating technologies. However, wind power is immune to fuel price increases that are impacting conventional power plants (such as natural gas, coal and uranium, all of which have been increasing recently). Despite the broader economic forces that are contributing to increasing costs for new generation across the board, wind costs have come down by 80% since the first commercial turbines were installed in the 1980s. State-of-the-art wind turbines generate 120 times as much electricity as 1980s models at one-fourth the per-unit cost.

Utilities seeking to manage fuel cost are finding that wind energy can be an attractive option for new generation. Wind energy development can also help cut consumers' bills by lowering demand for natural gas -- particularly during winter peak demand -- and by extending its supply.

#### **Broad Economic Benefits**

Each wind turbine assembly contains

more than 8,000 components, including the tower, rotor, gearboxes, generators, electronic elements, bolts and fasteners, wiring and concrete foundations. In 2005, less than one-third of the average turbine was manufactured in the U.S. But in 2007, wind turbines installed in the U.S. contained nearly 50% domestically manufactured components.

The U.S. wind industry installed over 3,200 turbines last year. To install that number of turbines, the U.S. industry required 9,564 blades and the same number of tower sections, approximately 1,557,000 bolts, 17,425 miles of rebar, and 805,000 cubic yards of concrete (enough for more than 3,700 miles of 4-foot wide sidewalk).

In the last 18 months, at least 13 new tower, blade, turbine and assembly plants opened in Illinois, Iowa, South Dakota, Texas and Wisconsin. Seven more were announced in Arkansas, Colorado, Iowa, North Carolina, New York, and Oklahoma. Altogether, the new and announced facilities are expected to create some 7,000 jobs, many in rural communities that had lost economic ground from the decline of once-reliable and flourishing industries. Investment in manufacturing capability signals confidence in the market and lays the groundwork for expanded growth. At the end of 2007, the wind industry employed roughly 50,000 workers in the U.S. (in construction, manufacturing, transportation, operations & maintenance and other service and technical professions).

Wind energy also generates revenue for rural counties and communities through property tax assessments and by helping farmers and ranchers diversify their income. Here are a few snapshots of these benefits:

- New York's 322-MW Maple Ridge Wind Farm, which began operating in September 2006, provides \$8 million annually in local property tax revenue, pays landowners \$1.65 million each year in lease payments, and created 163 new local long-term jobs.
- 2,500 MW of wind capacity is located in Nolan County, Texas, a rural area that had been in decline. Wind development since 2001 supports 1,124

direct wind jobs with a payroll of \$45 million per year, landowner royalties of \$12.3 million per year, and an increase in its property tax base to \$2.4 billion in 2008 (contributing to school improvements and construction).

- Illinois ranked third in new wind power plant construction in 2007, bringing its total wind electric generating capacity to 733 megawatts, enough electricity to power more than 183,000 homes. The state estimates that its wind capacity represents over \$1.3 billion in investment, has created over 3,500 jobs in Illinois, generates \$7.3 million per year in property tax revenues for local governments, and provides over \$2.9 million in annual lease payments to Illinois farmers who lease land to wind farm developers

#### **Using Resources Wisely**

The U.S. Department of Energy estimates that the vast U.S. wind resource is sufficient to meet more than twice today's total U.S. electricity consumption. Under the 20% Wind Scenario, the U.S. would host 305 GW of wind electric generating capacity. This amount of capacity would require about 50,000 square kilometers (km<sup>2</sup>) for land-based projects and more than 11,000 km<sup>2</sup> would be used for offshore projects. The actual footprint for wind turbines and related infrastructure would total about 1,000 to 2,500 km<sup>2</sup> (100,000 to 250,000 hectares) of disturbed land — a total land area that is about half the size of Anchorage, Alaska.

In general, a wind plant requires 50-60 acres for each megawatt of generating capacity, of which 2-5% is actually occupied by turbines. Most existing land use (such as farming and ranching) can continue, with crops growing and livestock grazing up to the foot of each turbine. Horse Hollow, the nation's largest wind farm, is comprised of 521 turbines (736 MW of generating capacity) which are arranged over a 45,000 acre area in west Texas. About 900 acres of this land area is actually occupied by turbines, roads and other infrastructure, leaving most of the area free for continued farming, ranching or other use. It's an excellent "multi-purposing" for this rural property, generating clean electricity

and new income for ranchers & farmers who are leasing the wind rights on their land.

Tapping only a fraction of America's vast wind resources in this way would easily yield much of the new power that the country will need in the years ahead.

In addition to maximizing land resources, wind projects also conserve water, an increasingly scarce resource particularly in arid areas of the American west. Cumulatively, the 20% wind scenario would avoid the consumption of 4 trillion gallons water by reducing electric sector water consumption gradually — reaching a 17% reduction in 2030. Compared with conventional resources, which use massive amounts of water for cooling, wind uses less than 1 gallon for every megawatt-hour of electricity produced, leaving this precious resource to be used for irrigation and other critical uses.

#### **Ready to Seize the Day**

"The U.S. has one of the best wind resources in the world. With the right political framework in place, this country can become a world leader in the fast growing wind industry." Jens Søby, President, Vestas Americas.

"Wind power is an integral part of our generating portfolio, and it has become a significant part of our nation's response to environmental challenges like climate change. With the right public policy, it will be a growing and affordable part of our long-term plans." Dick Kelly, Chairman, President & CEO, Xcel Energy.

Wind's benefits are proven: plants can be installed relatively quickly; wind-generated electricity is affordable; wind plants generate electricity without burning fuel; wind uses very little water, is pollution-free, and has a very small carbon footprint. Wind is ready today to satisfy our nation's growing demand for electricity while meeting concerns about our energy security and environmental future.

Today, the U.S. wind industry is growing rapidly, driven by mature technology, competitive economics, a sustained federal production tax credit (PTC), rising concerns about climate change and energy security, and renewable energy standards (RES) in 26

states. However, some regulatory and policy constraints must be overcome if wind is to achieve the 20% by 2030 milestone and beyond.

- Continued stable federal policy is critical to wind's market expansion. First and foremost, Congress must act to extend the federal production tax credit for wind as quickly as possible. Uncertainty surrounding the PTC extension is already threatening development in 2009, putting 75,000 jobs and more than \$11 billion in economic investment at risk.

- Investment in the nation's transmission system is needed so that electricity can be delivered from windy rural areas to urban centers that need the increased supply. Also, developing larger electric load balancing areas and better regional planning will enable regions to utilize a diversity of generation sources, including wind power.

- Significant growth is needed in the U.S.-based manufacturing supply chain to remedy the current shortage in parts for wind turbines. This would create jobs and generate investment in the U.S. economy.

- Small wind turbines used for residential, farming, or small businesses would proliferate if a federal tax incentive is adopted to help bring down the up-front cost of the purchase of the equipment. Small wind turbines—which can work well on farms and ranches in windy locations-- help lower electricity bills and reduce the use of electricity generated with polluting fuels.

The 20% Wind Scenario — the first step toward achieving wind's potential — is not likely to be realized in a business-as-usual environment. Meeting these challenges and addressing them head-on would ensure wind energy's steady growth over time, bring a variety of benefits to rural communities, and help diversify the nation's energy portfolio with a safe, clean, abundant resource — home-grown right here in the American heartland.

For more information on wind energy, including utility-scale and small wind systems, visit the American Wind Energy Association's web site at [www.awea.org](http://www.awea.org)

# got pivots?

Then you already know the challenge of keeping your irrigation on schedule for maximum profit. More than ever, high-energy costs make pivot management a critical task. In the early 90's Jerry Abts was selling a sophisticated and expensive remote monitoring and control system for center pivots; but most irrigators declined and simply asked, "what'a'ya got that will just tell me if my pivots are on?" The answer came in 1995 when Abts founded Pivotrak.com and patented a method of using simple text pagers to keep irrigators informed on the status of whole groups of pivots, one to a hundred or more.

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he could make unbiased recommendations that maximized economic return to the farmer. After extensive field research, he developed these improved fertilizer recommendations that quickly became popular with growers and form the basis for nearly all fertilizer applications in the intermountain west area. Stukenholtz Laboratory clients include growers from all neighboring states and several foreign countries including Australia, Canada, Egypt, Russia, Mexico and New Zealand.

Stukenholtz Laboratory provides 1 to 2 day service, including picking up and delivery time, across Southern Idaho from St. Anthony and Grace to

Parma and Homedale. Results can be delivered, mailed, faxed, or pulled from the Laboratory's webpage: [www.stukenholz.com](http://www.stukenholz.com). To improve their service, Joyce and Dale Stukenholtz expanded the laboratory 11 years ago, installed the latest in computerized instrumentation and quality control, and made it the most modern and well equipped agricultural laboratory in their market area.

Critical to the success of Idaho's most efficient laboratory and largest field consulting firm has been its personnel. Dr. Stukenholtz has had a PhD in Soil Fertility and Plant Nutrition since 1964 and his son and Laboratory Manager Paul has nearly completed his own. Consulting agronomists include J.P. Kruckeberg of American Falls, a 29 year veteran of field consulting and the most successful single agronomist in the state, and Bart Kunz. The Laboratory and office staff are equally good.

Stukenholtz Laboratory continues with research and improvement. In conjunction with the Idaho Crop Production Association and University of Idaho CFEP research project, Stukenholtz Laboratory has helped to ensure that fertilizer recommendations in Idaho are the most cost efficient possible and produce the maximum economic yield while protecting the environment. Stukenholtz Laboratory personnel have conducted field research on over 40 different products and continue to be the experts at "cutting edge" agricultural technology. As we end our first 37 years of business and begin our next, we would like to thank our current and former employees for their dedicated work and our customers and clients for their years of support. 

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# Canela Russet – A New Light Russet Potato For The Fresh Market

By: Robert Davidson-Seed Potato Specialist, CSU Extension

The newest cultivar released from the Colorado State University (CSU) cultivar development program is the Canela Russet. This cultivar was released to the growers in 2006 and has already found a strong following among producers in the San Luis Valley. The name “Canela” means cinnamon in Spanish and definitely reflects the tubers light brown russet skin. Canela Russet is a medium to late maturing potato which has the potential for medium-high yields of very well shaped tubers and is suited for the fresh market. This cultivar produces a high percent of US No 1 potatoes and has an excellent size range profile for the market place. Two major strengths help with this cultivar’s acceptance. First, this potato has resistance to becoming infected with the major potato viruses currently found in the San Luis Valley; potato leafroll and potato virus Y. This is an especially attractive trait since producers have been struggling with these viruses for the past several years. Second, Canela Russet has an extremely long dormancy in storage (149 days from harvest), positioning it ideally for the long term storage market. Some growers have concerns about the cultivar’s ability to set a skin after vine kill. Research at the CSU San Luis Valley Research Center would indicate that this tendency is the result of using too much nitrogen on the crop during

the growing season.

This produces slightly immature vines at vine kill leading to a longer time for setting the skin. This drawback can be overcome by using better cultivar specific management techniques. Research-



ers are currently obtaining grower data from the 2007 crop season to look for any other strengths or weaknesses of the Canela Russet.

Information from this survey will be presented to producers at the Southern Rocky Mountain Ag Conference in early February. As the breeder, Dr. David Holm, Professor of Horticulture and Landscape Architecture indicates, “Canela Russet is an exciting new cultivar for the potato industry with a built in niche for the late market season. It is not often we find a cultivar with so many good attributes and so few problems.” It remains to be seen if Canela Russet can take over a larger portion of the marketplace, but so far the future looks bright.

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## A Girl And Her Horses

As the oldest of four children, Maasa Spader will tell you that she's the boss. Her siblings, seven-year-old AJ, four-year-old Catherine and two-year-old Rebekah, need to listen to what she says. Watching Tony and Stephanie Spader's gaggle of curly-topped children play together, there's no doubt that Maasa's on top of the pecking order.

The precocious eight-year-old from Sioux Falls attends All City Elementary where her favorite subjects include reading, math and computer lab. "We do stuff like play type-to-learn," Maasa says as she gives a glowing smile under her short mop of light brown curls, a change that she made when she compassionately cut her long hair to donate to Locks of Love.

But when she's not in school or playing with her brother and sisters, Maasa spends time with her horses, a passion she inherited from her mother. "I love horses," says Maasa. "They're so pretty and they're good friends of mine."

The Spaders own three horses: a miniature pony called Sonador and two Paints, Abby and Zach, who are mother and son. The Spaders lend Zach to the South Dakota State University equestrian team.

"My wife has always liked horses, so my dad decided to make part of his land into a pasture so that his grandchildren could enjoy horses, too," said Maasa's father, Tony. "Maasa just fell in love with horses because riding is something that she can do and loves to do."

Part of the reason that Maasa loves horseback riding is because she is limited by activities that she can participate in due to lack of balance and other symptoms caused by Hereditary Sensory and Autonomic Neuropathy (HSAN), a condition she was diagnosed with in April 2005.

But the brave, courageous girl has a loving family that surrounds her with

positivity. And as the oldest child, Maasa has helped her parents understand how to help her younger sister, Rebekah, who was also diagnosed with HSAN.

The result: the trail blazed by the older daughter's courage and experience gives her younger sister a better quality of life.

Understanding and Living With HSAN HSAN is a collection of disorders which are genetically unique from one another and are caused by different gene mutations. For Maasa and her sister, Rebekah, doctors believe that they have found a new variant of the condition, although it is still undergoing research.

"We have sent blood samples from our entire family, including our relatives, but the study can take years. Both girls 'fall' under the umbrella of HSAN, but the exact type is still unknown," said Maasa's mother, Stephanie.

HSAN's most common and distinctive feature is loss of pain and temperature perception. The degree of loss varies among the different types. Symptoms include painless fractures and problems with joints, tongue or lip biting, dental problems, skin sores, and corneal ulcerations.

"Maasa got sick easily and also went from good to horrible very quickly," said Stephanie about Maasa's symptoms. "She was on ventilators frequently, the doctors never seemed to understand why her body was reacting in certain ways, we were told that what her body was doing was very odd, she self-mutilated without any sense of pain, her development was slower, and when she would hurt herself there wasn't the typical reactions."

The Spaders were very concerned for their young daughter, and they spent a considerable amount of time trying to find an answer to her condition or at least a way to help her, until one day they came across a story about a child that showed symptoms similar to Maasa's.

"We read an article about a girl that had

to wear goggles because she scratched at her eyes and damaged them without having any pain reaction. In the article it spoke of Dr. Axelrod, who is a pediatrician in New York that does nothing but study this genetic disorder... We did some research on the physician and then made our appointment," Stephanie said. The next two of the Spader's children, AJ and Catherine, were born healthy. But when their fourth child came along, Stephanie says that she knew Rebekah had HSAN, too.

"She was two in December and was diagnosed officially when we took both girls to New York in June '07, but mom knew all along," says Stephanie. "It's that mom's intuition thing. Her pregnancy, birth and first part of life were very similar to Maasa's. The doctors kept telling us, 'Relax, she's not Maasa; we have to give her a chance to be herself.' Well, we did, but she continued to follow in Maasa's footsteps. Because of how much we know and what we're preventing, Rebekah's life is now much easier than Maasa's was at this time. We have Maasa to thank for this as she in a way has 'paved the way' for her little sister."

For Maasa and her sister, immune deficiency is the biggest thing that affects their lifestyle. For years, in order to avoid hospitalization, the Spader family would spend winters at home, with Stephanie home schooling the children, doing their best to keep the girls from getting sick. Winter 2007-2008 marked the first time that the family didn't sequester themselves.

"We started following up with an immunologist in the summer of '07. This was the first time ever that an immune deficiency was noted," Stephanie said. "Before this, we were told that they didn't have any immunological problems. But both of them have specific things that we are doing with them to boost their immune systems now."

The result of this new treatment is that

Maasa and AJ get to stay in school, and the hospitalizations for Maasa and Rebekah have decreased.

"Before this year, we were completely isolated from January to April. Tony went to work, but I stayed home with the kids, other people brought us our groceries and ran errands, and we watched television mass every Sunday. It has been a relief and an enjoyment to be much more normal this year even though we are still very limited in what we do with the kids and who we allow for visitors," said Stephanie.

Getting Involved with Make-A-Wish®

Dr. Donna Weinacht recommended Maasa for a wish to the Make-A-Wish® Foundation of South Dakota.

"We started seeing Dr. Weinacht when Maasa was one," says Stephanie. "She has been one of the biggest blessings throughout this entire journey. Dr. Weinacht is supportive, helpful, knowledgeable, and honest with us. She has been our best advocate, and we will never be able to thank her enough for all the countless, sleepless hours she's spent working on our family's behalf."

After Dr. Weinacht's recommendation, the South Dakota Chapter contacted the

Spaders to discover what Maasa desired for her wish.

"I can't remember the exact time the chapter contacted us, but the evening that the team came to our home was wonderful," Stephanie said. "They were so generous bringing gifts for all our children. They were understanding of our chaotic home filled with four children all under seven years old."

Maasa's first request was for an indoor riding arena, but the Make-A-Wish® Foundation told the Spaders that they did not grant construction-related wishes. Disappointed that she wouldn't get

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given Maasa and her family other opportunities.

“Other than the horse trailer, Make-a-Wish® invited Maasa to be part of the ground breaking of the new building, they invited our entire family to take part in the NBRT weekend, and they also referred Maasa to be in a music video with Kory from Kory and the Fireflies. Each experience has been so very near and dear to her heart. She will never forget these incredible opportunities,” said Stephanie.

One big Make-A-Wish® event each year is the special events weekend held every fall during the Northern Bull Riding Tour finals. Throughout the year, the NBRT raises money to fund the special events weekend, and all net profits from the weekend go to the foundation.

“I did like going on the water slide at the Ramada, the go carts at Thunder Road and seeing all the horses at the bull riding,” said Maasa about the 2007 NBRT weekend.

Children and their families stay at the Ramada in Sioux Falls during the weekend. Friday night includes a meal of pizza and pop. Saturday morning, after a buffet breakfast, the NBRT hosts a full agenda of activities for the kids. That evening, the children ride in the opening entry into the arena on horses and horse-drawn wagons and they become the stars of the evening’s events. Following the opening entry, the children and their families watch in the stands as the cowboys try their best to cover each bull they draw.

As for what the Spaders enjoyed as a family during the NBRT’s special events weekend, Tony said, “It’s neat to see the kids all playing. You get to meet families with the same issues you’re facing.”

“We all have similar lifestyles and to see so many of us in the same place celebrating the lives of our children is beyond words,” said Stephanie. “I was choked up many times throughout the weekend.”

Living on Love, Faith, and Positivity If you spend any time with the Spaders, you immediately recognize the genuine warmth and love that Tony and Stephanie possess for their children. You also recognize that the tough times have bonded the six of them together like concrete.

“Our family has dealt with it by staying

her riding arena, Tony and Stephanie told Maasa as she got ready for bed to pray to God about what she should make her second request.

It really wasn’t a surprise when Maasa woke up the next morning and immediately told her mother that she wanted her very own horse trailer, especially considering how important the horses are to her. The Northern Bull Riding Tour helped to sponsor Maasa’s wish and presented her with her horse trailer in 2007 at her grandpa’s pasture. Her parents told her that it was her uncle’s birthday and they were going to go to the pasture to celebrate. When she got there, Maasa was surprised by all of the people who were there for her uncle’s birthday.

“She couldn’t figure out why there were cowboys at her uncle’s birthday party,” said Tony.

As a thank you to the people who sponsored her wish and presented her with her horse trailer, Maasa put her artistic skills to work and drew each of them pictures commemorating the event.

“Maasa was completely thrilled, overwhelmed, surprised, excited, and even taken back. It’s a very large gift for a little girl to comprehend,” said Stephanie about the horse trailer. “She beams from ear to ear when we’re in the truck hauling the horses somewhere. She knows that if it wasn’t for Make-A-Wish® that she wouldn’t have that opportunity to do that. Make-A-Wish® has provided so many neat experiences for her. Every time Make-A-Wish® offers her a new experience she just glows! As her parents, we couldn’t be more humbled and grateful as we see our child, who has had her share of hardships, have a moment in time to be granted a gift that allows her to be uplifted, honored, and adored!”

In addition to the attention that the organization gives Maasa, the Spaders are grateful for the family memories that Make-A-Wish® has given them.

“When you have a kid with medical problems, your time revolves around their care,” said Tony. “Make-a-Wish® is a reprieve from that. It’s something special the whole family gets to participate in. The Make-a-Wish® team just makes the child feel like king or queen of the world during the whole process.”

In addition to presenting Maasa with her horse trailer, the organization has

close to God,” says Tony. “If you didn’t, I don’t think you’d get through it. Maasa and all of our kids are a gift from God. We don’t know if we can keep them for one year or fifty years, but our job is to love and serve God by loving and caring for these gifts.”

It is the faith that they’ve taught their children that has allowed Maasa to be brave. When asked to give advice to other sick children, Maasa says, “Don’t be afraid because the doctors are there to take care of you, and then you feel better.”

Tony and Stephanie also have advice for parents.

“Focus on the good,” says Tony. “You’ll meet a lot of great people, including nurses and doctors. You’ll meet other families going through the same struggles. That will help you get through yours. Life’s not over; there’s still a lot of joy. There will be a lot of hard times, but also a lot of great times.”

What’s more, the Spaders do not allow Maasa to feel sorry for herself.

“We’ve never allowed her disability to be the focus other, or our, life,” says Stephanie. “We try to focus on the good things of this journey. By focusing on the positive we’re hopeful that Maasa will never be a victim of her disorder but instead have the strength to overcome obstacles and to pursue her dreams.”

And for Maasa, the positive includes spending time with three of her best equine friends: Sonador, Abby and Zach.

“Maasa would live at the pasture with her horses if she were able,” said Stephanie. “Unfortunately, we live in town due to the need to rely on medical professionals to be close if needed. There is not a week that goes by that she doesn’t ask when she will get to see her horses. It’s a little challenging at this point in our family’s life to get there as much as she would like, but she is thrilled to have the trailer and to have the freedom to take the horses with her for a day of fun when we can. We have decided as a family to use the horses more for recreation than showing, so she is very excited and anxious to get those horses on the trails this year.”

While the trail that Maasa’s life has followed hasn’t always been easy, it’s one that she’s undertook with bravery, compassion for others, and sincere faith and love. 

# We Believe In Magic

## We believe in magic!

That's right. At PERSONAL PONIES, we believe in magic—the magic that happens between a tiny pony and a child with disabilities.



Creating magic in children's lives IS our mission. It's our only mission.

## On magic wands and fairy dust...

Making magic for children with special needs doesn't happen by itself though. In the real world there are no magic

wands, no fairy dust to sprinkle. The kind of magic we make takes caring hearts and helping hands. Lots and lots of them.

Our volunteers are our recipe for magic. And we can only make our magic because hundreds of people throughout this country give their time and resources to breeding, raising and training ponies, to finding just the right match between a pony and a child.

There are also volunteers who sponsor ponies by maintaining them themselves so that they are available for "visiting" by families who cannot keep a pony at their home. These children may visit several times a week to see "their" pony and to care for their pony in all the ways they can. Sponsored ponies, as well as ponies placed specifically to promote PPL, also serve the wider community by being taken to visit at convalescent homes, day care centers, therapeutic riding centers, and treatment centers.

One of our mottos is "have pony, will travel"—our ponies go anywhere kids will benefit from seeing and interacting with them. How much magic can we make? As we said, there are no magic wands or fairy dust in real life. Only in fairy-tales. Therefore, placing ponies with kids who want them also depends on having ponies available in the right place at the right time. Without breeding farms to supply ponies, and without volunteer sponsors and promoters that place ponies and work with families, and with out donation of funds there simply may be no way to provide a pony in a specific area. And sadly, sometimes no matter how hard we try to fill an urgent need, kids who have asked for a pony do not get one in time. Hundreds are waiting right now... In other words, if we are going to make LOTS of magic, we need LOTS of volunteers and funding.

Idaho State Directors, Les & Donnis Mager 208-866-8123



## PERSONAL PONIES LIMITED

### The Personal Ponies Story

Frances McKinney, the school secretary, poked her head in the classroom door and said in a loud voice, "your brother died, Marianne. I was asked to come and tell you." Frances closed the door and I held my right arm steady with my left hand so I could finish the English exam I was writing. That was June, 1946. I was fifteen years old.

That afternoon, in art class, I drew a fat brown pony under an apple tree (drawing is not my calling in life). Oh, but that little hairy troll pony drawing was important! When the art teacher looked at it, she remarked that she thought I could do better. I told her quietly that "it meant something."

My brother had epilepsy and died at

age thirteen of pneumonia. He wanted a pony all his young life. He played instead with an old harness strap he found in my father's stable and called his make believe pony, Magic Pony Kate". He dragged that strap through muddy puddles and in the meadows at Greystone Farm, clucking in his lispng fashion. How I loved him!

Personal Ponies Ltd. was founded in 1986 in memory of Bernard Garfield. Many differently able children in our huge Nation now have a real "Kate Pony" to hug on and love. We offer our ponies life use. There is no charge.

Ours is a program of caring. "Smiles and pony magic" is our motto. M. Alexander, Founder and National Director, Personal Ponies Limited



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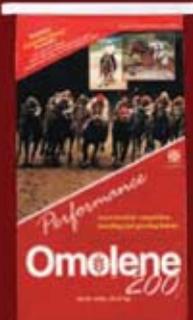
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