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Maximum efficiency with MAXfield
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More “UMP” in your pump
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Conserving water, energy and labor
A Zimmatic® system is more than a pivot – it’s a customized irrigation solution.
Designed for optimum efficiency, it grows a bigger bottom line. Each system is backed by trained irrigation professionals who provide expertise and support beyond products and technology. Season after season, this system will prove profitable no matter what the crop or terrain. Which is why we’re experts in our field... and yours. www.zimmatic.com

YOUR IRRIGATION EXPERTS
Desert land produces new growth in Egypt

Q: Where is Green Valley focusing its operations in Egypt?
A. Our largest areas of growth are newly developed desert land. We draw water from underground, as well as from the Nile, for pivots and fixed-spray irrigation.

Q: What are the main crops grown?
A. Green Valley customers grow potatoes, peanuts, corn, barley, wheat, vegetables, alfalfa, sugar beets, spices, and some medicinal plants for pharmaceutical purposes. Crops grown under Zimmatic irrigation here in Egypt are used domestically and are also exported to nearby Gulf countries and Europe.

Q: What do you see for the future of irrigation in Egypt?
A. There is a great deal of growth potential for new irrigation development throughout the country, especially for exporting crops like potatoes and peanuts to Europe. Plus, there are a lot of foreign and domestic investors interested in Egyptian agriculture.

As far as crops go, we’re researching the advantages of using pivots to irrigate citrus crops. I have a customer who grows both potatoes and oranges. His potato pivot was positioned near his orange grove, and part of the pivot ended up watering the oranges. At the end of the season, he had much larger citrus yields in the areas near the pivot compared to drip irrigation. We will continue to explore irrigating citrus crops with Zimmatic center pivot irrigation.
Like most farmers, third-generation Nebraska corn grower Brian Wall is constantly looking for ways to make his farming operation more efficient and profitable.

One of the ways he is doing that is by using variable frequency drive (VFD) control technology. Wall recently installed a Lindsay Watertronics VFD control panel on his 100 horsepower irrigation pump in Hamilton County, Neb. The VFD control technology is designed to save Wall energy, water and maintenance costs.

“The variable frequency drive control technology is something new we are trying on our farm to reduce our cost of electricity,” Wall says. “Electrical costs are a major expense for us in running our irrigation pumps and systems.”

In simplest terms, VFD control technology adjusts the speed of the electric motor on Wall's irrigation water pump to match the specific demands of his irrigation system. Unlike a fixed single-speed drive, the Lindsay Watertronics VFD control technology saves energy by providing a “soft start,” gradually increasing the motor speed until it reaches peak operating speeds. Further energy savings are realized

“With energy rebates from the power companies, VFD technology can pay for itself in less than five years. Plus, you have less wear and tear on your pumps and irrigation systems.”

– Erich Williams, The Pivot Man

“THE VARIABLE FREQUENCY DRIVE CONTROL TECHNOLOGY IS SOMETHING NEW WE ARE TRYING ON OUR FARM TO REDUCE OUR COST OF ELECTRICITY.”

– BRIAN WALL
by the VFD’s ability to precisely and evenly match pump output to system demand.

Lindsay’s local Zimmatic dealer, The Pivot Man in Grand Island, worked closely with Wall in designing and installing the VFD control panel.

“There is lots of buzz and curiosity in our area about VFD technology,” says Erich Williams of The Pivot Man. “We have installed several VFD control panels on farms in our area this year and are working to educate growers about the benefits of this energy-saving technology.”

Wall is using the Watertronics VFD control technology on a pump that supplies 800 gallons of water per minute (50.5 liters per second) to a pivot that irrigates approximately 150 acres (61 ha) of corn. The pivot includes a MAXfield corner system.

“The VFD control panel was installed in June and we are still documenting the potential energy savings,” Wall says. “But the VFD control technology seems to be especially beneficial for a corner irrigation system because of the variability of water pressure at the end of the pivot. With VFD technology, the water pressure at the end of our corner arm is at about 30 pounds per square inch (2 Bars). Without VFD it can be as high as 70 pounds per square inch (4.8 Bars).”

Williams is working with Wall and other growers and local electric utilities in central Nebraska to fine-tune the VFD devices for maximum energy and water savings.

“I am really impressed with these new VFD control panels,” Williams says. “With energy rebates from the power companies, VFD technology can pay for itself in less than five years. Plus, you have less wear and tear on your pumps and irrigation systems.”

The VFD control panels are custom-designed and pre-tested at Lindsay’s Watertronics manufacturing facility in Hartland, Wisconsin.

As VFD control technology continues to grow in popularity, The Pivot Man and Williams are helping to install the devices on area grain bins and grain bin towers, legs and drying systems.

“The Watertronics VFD control technology works great for slowly ramping up electric motors. It’s less shock on the motor and the system. With a fixed drive irrigation motor, you’re basically pumping against a brick wall and there’s nothing you can do about it. VFD technology is changing all of that,” Williams says.

The Watertronics VFD control technology can be installed on both new and existing electric motors.

VFD Energy Rebates

Cory Fuehrer, Energy Efficiency Program Manager with the Nebraska Public Power District (NPPD), says interest in variable frequency drive (VFD) technology has increased in recent years as farmers become more aware of the benefits of the technology and potential energy savings.

“The VFD technology can save a great deal of energy and works especially well if you have varying flows of water, such as on a corner system, end guns and hilly terrain,” Fuehrer says. “Irrigators are much more cost conscious and see VFD technology as a way to optimize revenue and reduce energy costs.”

NPPD, in partnership with participating local electric utilities, now offers energy rebates to qualifying customers who install the VFD technology. The rebates amount to 20 cents per kilowatt hour saved.

“A lot of growers don’t know about the VFD incentives but it’s starting to catch on as they see the benefits of this new technology,” Fuehrer says.

For more information, contact your local Zimmatic dealer or visit http://www.nppd.com/EnergyWise/incentives.asp.
Imagine 25,000 acres (10,117 ha) of carrots, onions and potatoes wilting in scorching 113-degree (45°C) heat. Mark Pye, managing director, doesn’t take that risk at his operation in Mallee, Australia.

He’s found that Zimmatic’s high-speed motor is the best way to irrigate his carrot crop because the first six weeks of germination is critical. A seven-tower pivot with a 43 RPM motor can complete a circle in under 13 hours, compared to more than 16 hours for a competitive system with a 34 RPM motor, which equals a 27 percent savings.

Pye is using an 86 RPM motor running at 50 hertz which gives the motor a 71 RPM speed for even greater savings.
The high rate of speed helps resist the effects of sizzling temperatures and wind drift. “Center pivot irrigation offers a better distribution reliability, a clear harvesting path and is not affected by wind. Quality and yield are excellent compared to other irrigation methods,” Pye said.

It typically takes four hours per half pivot with a VFD (variable frequency drive) pump over 65 acres (26 ha). One hundred and twenty acres (49 ha) are covered in 16 hours on a 95-degree (35 C) day.

VFDs are important in the extreme weather conditions in midsummer, and take the wear and tear out of the driveline by ramping up and down and allowing higher hertz to be used.

The soil type in this area is sand over clay and limestone, with an average annual rainfall of 12 inches (30.5 cm). Temperatures can reach up to 113 degrees (45 C) in summer with low humidity. Evapotranspiration rates can get as high as .55-.62 inches (14-16 mm) per day.

Pye utilizes Online Control, easy-to-use computer software from Zimmatic, to manage 62 pivots that reduce labor costs and vehicle breakdowns, and help identify system failures to lessen the risk of crop damage in extreme weather conditions. “It only takes one person to look after 400 acres (162 ha).”

“I haven’t lost any crops due to pivot downtime, and I’d tell other growers thinking about irrigating carrots with pivots to give it a go.”

– Mark Pye

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www.hallirrigation.com.au
“Our Zimmatic pivots work great in helping the sugar beets to germinate properly and break up any crust that may be preventing emergence. You can’t do that with furrow irrigation.”

— Kevin Hall
Pivot irrigation is key to strong sugar beet germination

Proper pivot irrigation management is critical to profitably growing sugar beets. Just ask Bridgeport, Nebraska, sugar beet grower Kevin Hall, who grows approximately 3,000 acres (1,214 ha) of sugar beets with pivots.

Hall also uses his Zimmatic pivots to apply fertilizer and some fungicides to his sugar beets.

Because his land is spread over several miles in several counties in western Nebraska, Hall makes maximum use of his FieldNET web-based irrigation management and control system.

“We have some pivots that are under electric load management and FieldNET works great when we have to stop and re-start the pivots. It saves a lot on labor costs,” Hall says. “We are in a water control area and the Zimmatic pivots help us conserve water.”

With the recent introduction of Genuity™ Roundup Ready® sugar beets and new traits in sugar beet seeds, yields have increased substantially, according to Hall.

Hall says sugar beet prices have been good to firm in recent years, making sugar beet production profitable.

In addition to sugar beets, Hall raises corn, wheat, alfalfa and dry beans.

Bill Pierce, co-owner of Midwest Farm Service, Hall’s local Zimmatic dealer, says sugar beet growers in western Nebraska and eastern Wyoming have come to rely on pivot irrigation to successfully manage their sugar beet crops.

“One big advantage of center pivot irrigation over furrow irrigation is the ability to germinate the sugar beet crop in a dry spring,” Pierce says.
As the third-generation owner of Kolk Farms, Ltd. in Iron Springs, South Alberta, Canada, Leighton Kolk has seen a lot of things improve over time. He witnessed his family farm’s progression from flood irrigation to hand-move and wheel irrigation before transitioning to pivot irrigation 25 years ago. In 2007, Kolk bought his first MAXfield Custom corner system — and he hasn’t looked back since.

“MAXfield provides more uniform water distribution. I like that it cycles on and off, replicating a nice rain shower rather than a fierce thunderstorm,” says Kolk.

The MAXfield Custom uses a pulsing sprinkler system to provide a more uniform application rate, often resulting in improved production. Other features include a hose-free joint that eliminates leaking, and a steerable arm that allows growers to bring additional acres under irrigation, increasing production without having to purchase more land.
“Every acre we leave idle is revenue lost. With MAXfield, we gain maximum efficiency.”

– Leighton Kolk
Because Kolk raises beef cattle on his farm, two-thirds of his land is dedicated to crops for his feedlot. The remaining third is made up of cash crops – canola, alfalfa, hybrid canola seed and wheat. Farmland is at a premium in Kolk’s area, and MAXfield Custom’s steerable corner arm helps him make the most of available space by irrigating the land near his feedlot.

“I’m able to dig further into the corners with MAXfield. Land is expensive here, so every acre we can put under irrigation production will pay off,” he says. “Every acre we leave idle is revenue lost. With MAXfield, we gain maximum efficiency.”

Kolk now has three MAXfield Custom corner systems and about 1,500 total acres (607 ha) under irrigation. Land in his area is trading at $5,000 USD per acre, especially land close to intensive livestock operations.

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Kolk Farm staff use Zimmatic’s MAXfield Application Planner (MAP) software to monitor the farm’s custom irrigation plan and track water usage. Staff members also utilize the FieldNET Wireless Irrigation Network to remotely start, stop, monitor and adjust pivots to increase overall efficiencies.

“We manage all aspects of our operation with detail, keeping maximum potential in mind,” Kolk says. “Whether beef, grain, silage, equipment or trucking, we try to focus on high quality, safety and maximized potential. Top quality equipment, good planning and management, along with the latest technology, allows us to take our operation to the next level.”

And when it comes to staying on top of the latest advances in technology, he turns to New-Way Irrigation, Ltd., his local Zimmatic dealer.

“New-Way and Zimmatic seem to be on the leading edge of technology and equipment, such as precision irrigation and irrigation management and control,” says Kolk.

Established in 1976, New-Way became a Zimmatic dealer in 1981. The South Alberta dealership has locations in Lethbridge, Taber, Brooks, Strathmore and Bow Island. New-Way has supplied Kolk with seven Zimmatic pivots, as well as his three MAXfields.

“Kolk is a good farmer. He’s very progressive and likes to keep up-to-date on the latest technology and equipment. He takes the time to analyze key areas of his operation to make it more productive and profitable,” says Bryan Smith, a spokesman for New-Way. “The MAXfields help him pick up additional acres right near his operation for silage and for manure applications.”

Kolk Farms began with Kolk’s late grandfather, Jan, who emigrated from the Netherlands after World War II. The farm was then taken over by Kolk’s father, Albert, who still lives in Alberta. Kolk’s wife, Elinor, and children, Jordan, Devan and Megan, are actively involved in the operation, and son Jordan is studying agricultural business at the University of Saskatchewan.

“I’m always looking for the next area to increase productivity and quality in a sustainable manner,” Kolk says.

Going forward, Kolk is certain of one thing—he will be installing more MAXfields.

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For additional locations, visit http://www.newwayirr.com/

For more information on MAXfield Custom corner and to find a dealer near you, go to www.zimmatic.com.

MAXfield Custom Corner Exclusive Features

SmartChip Technology
After completing an initial mapping rotation, the MAXfield Custom “remembers” every unique aspect of your field, adjusting its application rates accordingly. This results in a more uniform application pattern.

MAP Software
MAXfield Application Planner (MAP) software allows your Zimmatic dealer to design an irrigation system for virtually any field.

High-Flow Joint
MAXfield’s exclusive High-Flow joint transmits water internally, without the need for a leak-prone hose. In addition, the joint’s simplicity results in longer life and reduced water friction loss.

AccuFlow Sprinkler Packages
Utilizing a rapid-cycling concept, MAXfield’s sprinkler banks turn on and off according to the corner’s swing angle. This proprietary feature improves application uniformity by allowing a customized water program to be selected for the user’s field.

More Acres Under Irrigation
The steerable corner arm has a maximum extended reach of 280 feet (85.3 m). Depending on field shape, this extra reach allows you to bring between 23 and 51 more acres (9-21 ha) under irrigation.
FIELDNET MOBILE TAKES CONVENIENCE, PIVOT CONTROL TO A NEW LEVEL

Manage pivots from anywhere with a smartphone

The rise in popularity of smartphones, from BlackBerry® and Droid® phones to the ever-evolving iPhone®, has changed the way we live, work and play. Smartphone users can e-mail, visit social networking sites and make purchases from anywhere with just the touch of a button. And now, they can control their pivots too—with FieldNET Mobile.

Designed exclusively for smartphones, Lindsay’s new FieldNET Mobile platform provides full remote monitoring and control for pivots. The mobile web resource combines all of the award-winning features of the FieldNET Wireless Irrigation Network in one easy interface.

“FieldNET Mobile provides a labor-saving innovation with the convenience of web-enabled phones,” says Reece Andrews, GrowSmart product manager at Lindsay. “With full control and monitoring from anywhere, growers are more efficient with their time and always know the status of their irrigation systems.”

Smarter Features

By adding FieldNET Mobile, growers benefit from a rich graphical interface and detailed control over virtually all aspects of irrigation. Features include:

- **The Vision Zone**
  
  This screen provides a quick view of each pivot’s position and detailed status information.

- **Control Screen**

  The control screen features large, easy-to-use buttons, providing simple control of irrigation rates, or full control with a Premier subscription upgrade.
The U.S. Department of Agriculture’s Environmental Quality Incentives Program (EQIP) is a voluntary conservation program that provides payments up to 75 percent for certain conservation practices and activities. Through EQIP, the Natural Resources Conservation Service (NRCS) develops contracts with agricultural producers to implement conservation practices to address environmental natural resource issues. Payments are made to producers once conservation practices are completed according to NRCS requirements.

The EQIP objective to optimize environmental benefits is achieved through a process that begins with national priorities that address:

- Impaired water quality
- Conservation of ground and surface water resources
- Improvement of air quality
- Reduction of soil erosion and sedimentation
- Improvement or creation of wildlife habitat for at-risk species

To find out more about EQIP Mobile and its compatibility with your smartphone, talk to your Zimmatic dealer or visit www.lindsayfieldnet.com.

The benefits, which put FieldNET Mobile head and shoulders above competing platforms, include savings on time and labor; enhanced navigation; the ability to view the status of all pivots at once; and no daily call limit, allowing for unlimited use without overage charges.

“FieldNET Mobile is very easy to set up and features intuitive color-coded graphics that show growers in-depth pivot information,” Andrews says. “With simple touch navigation, users can quickly control pivot operations from their phone, saving them labor and making irrigation management convenient and easy from virtually anywhere.”

To learn more about how EQIP may fit into your farming operation, contact a Lindsay EQIP specialist toll-free at 866-404-5049 or your local Zimmatic dealer.

For more information on EQIP, visit www.nrcs.usda.gov/programs/eqip.
Saving Water with Pivot Irrigated Rice

Brian Protheroe is a fourth-generation Australian farmer who has been growing flood irrigated rice since 1995. But because of water shortages caused by recent dry years and the bullish price of rice, Protheroe decided to grow rice with efficient Zimmatic center pivot irrigation.

Protheroe had lots of experience raising traditional flood irrigated rice but little knowledge of growing rice under pivot irrigation. He did his research on pivot irrigated rice, including a trip to the United States to visit the Michael McCarty rice farm near Osceola, Arkansas.

McCarty’s successful experiences raising rice under pivot irrigation were documented in a study showing substantial water, labor and energy savings and yields on par with flood irrigated rice.

He planted two varieties of rice: Quest, a short-season, short-grain variety, and Amaroo, a long-season, short-grain variety, on 74 acres (30 ha) of land known locally as the Glen Ayre Farm.

“I wanted to grow two different varieties with two different maturities in order to establish which variety was better suited for pivot irrigation.”

Groundwater is the main source for his four Zimmatic center pivot irrigation systems, but Protheroe plans to add more pivots and pump stations to access water from a nearby river.

Protheroe used a large 60-foot (18.3 m) planter to plant the rice, something he had previously not
been able to do because of the dikes and berms that are used in flood irrigated rice fields.

**SOLUTION**

The Zimmatic rice pivot on Protheroe’s farm is 991 feet (302 m) long and includes six towers. The new pivot was equipped with a Nelson S3000 Yellow Plated Spinner sprinkler package, which applied fine droplets of water “like a good steady rain,” Protheroe said.

The rice pivot was outfitted with Lindsay’s Z-TRAX tracking system and three-wheel drive tubes for improved traction and flotation. “The Lindsay tracking systems helped enormously,” he said.

**RESULTS**

Protheroe’s short-season rice variety yielded 195 bushels dry per acre (9.8 MT/ha), with some sections yielding up to 297 bushels dry per acre (15 MT/ha). The long-season rice variety yielded 105 bushels dry per acre (5.3 MT/ha).

“I planted the short-season rice variety because the nights can get cool in our area around the end of December through mid-January, which can damage yield when the rice is heading. As it turned out, yields on the short-season variety were outstanding. I was very pleased with the yield on the short-season rice.”

Protheroe conservatively estimates using 40 percent less water growing pivot irrigated rice compared to flood irrigated rice.

Fertilizer was applied through the Zimmatic pivot, a tractor spreader and an airplane.

Protheroe was extremely pleased with weed control in the pivot irrigated rice.

“One of the many benefits of rice production under a pivot is the ability to apply herbicides using existing equipment such as sprayers,” says Bryce Yates, managing director at Flow Smart, Protheroe’s local Zimmatic dealer. “With flood irrigation, this has to be done by airplane, which is much more expensive.”

**BENEFITS OF PIVOT IRRIGATED RICE VS FLOOD IRRIGATED RICE**

- Lower operating costs
- Requires less water
- Precision application of fertilizer and chemicals
- No dikes or ground leveling
- Able to use larger equipment in rice fields
- Plant and harvest sooner
- Option to rotate rice with multiple crops
- Ability to grow rice on land previously not suitable for flood irrigated rice

**More on pivot irrigated rice from Dr. Pivot . . . next page.**

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**More Info:**

For more information, visit [www.ecorice.net](http://www.ecorice.net).
Water scarcity is an area of significant concern and discussion. Breeding for drought tolerance in rice, as well as innovative production systems, will be required to address water scarcity as it relates to rice production. One such water-saving irrigation system is the center pivot. Research is underway to evaluate and adapt center pivots to rice production. The basis for this research is threefold: to reduce the water required to produce rice, to expand the geographic area suitable for rice production, and finally, to reduce the cost of production by automating irrigation operations and fertilizer/chemical applications.

Center pivot sprinkler systems have many advantages over other forms of irrigation. Center pivots apply water more uniformly to fields than do flood or furrow irrigation. Since water outflows are lessened, pumping requirements are reduced, allowing farmers to save on both water and energy. Moreover, accurately metered fertilizers and chemicals can be applied through the center pivot with the same high efficiency as the irrigation water. This can significantly reduce labor and application costs. The loss of fertilizers and chemicals to leaching and runoff is minimized, thereby increasing input efficiencies and reducing potential environmental impacts. In-season nutrient application through fertigation enables better plant utilization of nutrients because applications can be timed to match the plant’s nutritional requirements.

Center pivot systems perform well on sloped fields, eliminating the cost of expensive land leveling operations. Additional cost savings can be realized from reductions in labor and expenses for heavy tillage, puddling, canal construction, surface smoothing, and check construction/maintenance.

Expansion of rice ground without expensive land development can occur by using center pivot systems. Areas previously unsuitable for rice production due to topographic or soil texture constraints may now be considered for rice production. In addition, established paddies are suitable for rice production, but rotation to other crops is difficult because puddling operations destroy soil structure to maintain flood water. Use of center pivots will improve crop rotation options for healthier crops and soils while providing farmers more flexibility to respond to changes in markets, weather, and other conditions.

Research performed in the United States and Australia has shown that irrigating rice with center pivots reduces water applications from 28 percent to 50 percent compared to conventional flood methods, while maintaining or improving rice yields. Reported yields from these studies have been between 160-200 bushels per acre (8-10 MT/ha).

A number of factors have to be taken into account when considering the use of center pivot systems for rice irrigation. The use of blast resistant rice varieties is essential, as overhead sprinkler systems will regularly wet the rice canopy. Increased dependence on herbicides will also occur without flood water to keep weeds in check. Herbicide and fungicide programs will have to be carefully monitored. The cost of these programs should be offset by reduced production and pumping costs, however.

Center pivot sprinkler systems may not be applicable to every field and every situation, but the expectation is that the advantages of center pivot sprinkler irrigation can be successfully adapted to widespread rice production.
The all new AT Gearbox

Designed for the future of center pivot irrigation.

Coming soon from Zimmatic. Look for more details in the next issue of Irrigation Advances or contact your local Zimmatic dealer.

Upcoming Shows

Sunbelt Agricultural Exposition
October 19-21, 2010
Moultrie, Georgia
www.sunbeltexpo.com

3rd International Rice Congress
November 8-12, 2010
Hanoi, Vietnam
www.ricecongress.com

Potato Expo 2011
January 5-7, 2011
Las Vegas, Nevada
www.potato-expo.com

World Ag Expo
February 8-10, 2011
Tulare, California
www.worldagexpo.com

Commodity Classic
March 3-5, 2011
Tampa, Florida
www.commodityclassic.com

Lindsay Online

Looking for Lindsay online? Visit our new YouTube page at www.youtube.com/lindsayirrigation for short, informative videos on the latest Lindsay irrigation products and control technology.

You can also check out the Irrigation Advances blog at www.irrigationadvances.com for the online version of Irrigation Advances magazine.

And, as always, www.zimmatic.com is the place to go to find detailed information on Zimmatic products and features, and to locate a Zimmatic dealer near you.
FieldNET™ Mobile from Lindsay provides full remote control and monitoring of your pivots – all from your smartphone.

The easy-to-use interface features real-time text alerts, detailed water usage reports and more, resulting in less labor and added efficiency.

It’s like having a pivot in your pocket...

Control Screen
The control screen features large, easy-to-use buttons, providing simple control of irrigation rates, or full control with a Premier subscription upgrade.

See FieldNET Mobile in action!
Visit us at the Lindsay booth (#702) at Husker Harvest Days, September 14-16 in Grand Island, Nebraska.

For more information on FieldNET Mobile, contact your local Zimmatic® dealer or visit www.lindsayfieldnet.com.

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