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BEEF PRODUCTION
IS GOING IN
CIRCLES

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T-L’S GPS
NAVIGATION
CORNER SYSTEM

60

YEARS

1955

IRRIGATION

EXCELLENCE

SINCE

T-L

T-L ... LIKE NO OTHER.

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IRRIGATION VIEW

FALL 2015



There’s No Second Chance
To Make The Right Decision

A strong work ethic, communication and reliable partnerships have spawned rapid growth on this Kentucky farm.

Founded just 21 years ago, Seven Springs Farms, based near Cadiz, Kentucky, has one simple business philosophy. That is, “You never get a second chance to make the right decision”. Obviously, that approach has served the company well since its beginning in 1994 as a spinoff to a farm equipment repair business and custom farming operation.

Today, Seven Springs Farms, which derives its name from a group of springs located near the home farm, owns and leases approximately 34,000 acres of farmland in four counties. The operation also includes around

10,000 head of feeder cattle, a local restaurant and a wedding event center.

For the majority of the acres, the crop rotation consists of corn followed by wheat and soybeans — the latter being double-cropped behind wheat after harvest — yielding three crops in two years. However, like many Kentucky farms, they also raise a small amount of dark tobacco.

“We only plant wheat on the well-drained fields, though,” says Joe Nichols, managing partner in Seven Springs Farms. “I feel like one of the keys to our success is

Local Dealer:
R&K Pivots
Russellville, KY

Micheal Oliver (l) and Joe Nichols, Seven Springs Farms - Cadiz, KY

See **The Right Decision** on page 2 ▶

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One Season Was Enough

This Nebraska farmer discovered that one season with an electric pivot was enough to convince him that T-L hydraulically driven machines were a better choice.

It’s been more than 20 years since Ken Boswell purchased his first center pivot irrigation system in 1993. That was also the year he purchased his first and last electric pivot. The following year, Boswell purchased two new T-L pivots and hasn’t looked at electric pivots since. Today, nearly 95 percent of Boswell’s 1,200 acres of corn and soybeans are irrigated by seven T-L pivots, one electric pivot and a small amount of furrow irrigation. — See **One Season Was Enough** on page 8 ▶



Steve Rogers
Glendale, Kentucky



Bo Stone
Rowland, North Carolina

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Seven Springs Farms / The Right Decision



Micheal Oliver, Ken Moore with R & K Pivots, and Joe Nichols - Seven Springs Farms - Cadiz, KY

that we always remain flexible,” he adds. “We may decide to plant something different at the last minute based on price. In fact, we even went so far one year as to double-crop corn behind wheat, instead of planting soybeans. And it worked out pretty well.

“At the same time, we always analyze a situation to determine the correct decision the first time,” he insists. “You often don’t get a second chance.”

That’s part of the reason Nichols and his partners began installing T-L center pivots on the farm in 2009. They had looked at other options, but ultimately decided, based on their mechanical background in equipment repair, that they already knew enough about hydraulics to do much of their own service.

“To me, it was a ‘no brainer,’” Nichols adds. “They’re virtually foolproof. Plus, I’m not going to be the one to stand in water with 480 volts. That means we would have to hire an electrician every

time we need service.”

Nichols says they have discovered that it’s also a “no brainer” to add T-L pivots wherever they can. Since installing the first two units in 2009, they’ve seen an average of 30 to 40 bushels per acre increase on corn and as much as a 20-bushel-per-acre increase in soybeans. In addition, most of the corn they now plant under the pivots is a white variety that has been in higher demand for export to South America and Mexico.

“The best time to have an irrigation system is when you don’t need it,” he adds. “In 2013, we didn’t see any increase in corn yields with the pivots. However, in 2012, when we had a severe drought through the summer, we saw a 110-bushel difference between irrigated fields and dryland fields.”

Consequently, Seven Springs Farms has been installing pivots

everywhere they can find a way to do it. Counting the three more pivots that went in earlier this year, the farm total is now up to 24 units.

“From where we were in 2009, we’ve learned a lot about irrigation,” admits Micheal Oliver, partner and farm manager. “Every field where we have put a pivot has its own problems. As a result, we’ve put in wiper systems, run pivots through shallow ponds and built bridges across creeks and sinkholes.”

In the meantime, they’ve found numerous ways of supplying water to the pivots, including drilling wells, pumping out of nearby creeks using a patented River Screen siphon, and building ponds or lakes to serve as water reservoirs when nearby wells are inadequate by themselves.

“That’s another reason we continue to rely on R & K Pivots in Russellville, KY for T-L units,” Nichols relates. “Ken (Moore) is used to dealing with unorthodox ways to get water to a pivot and to the crop. We’ve done some pivot mapping and installation ourselves, but we’ve found that it is a better investment to pay him

than to use our time.”

If there’s one more secret to their success, besides making the right decision the first time, Nichols says it’s hiring the best people he can find and dealing with the vendors and suppliers that provide the best products and services.

“Everyone in our company has a strong work ethic and most of the people we work with have the same type of initiative, which has been one of the other factors that has contributed to our growth,” he adds. “The other important elements in our growth have been good communication and remote management.

“At one time, we also farmed some land in southeast Missouri, which is over 150 miles away,” Oliver explains. “I don’t know that we’d try it again, but it did teach us how to communicate and manage remotely.”

To that end, Nichols, Oliver and the employees hold regular meetings to discuss their plans and goals and to coordinate activities. Nichols has also implemented a JDLink™ program from John Deere that allows him or Micheal to track machine locations, monitor fuel usage and track and plan maintenance. For the same reason, they’ve equipped all their T-L pivots with remote monitoring systems that allow them to track pivot movement, alert them if a pivot stops or even stop a pivot if a rain is approaching.

Finally, they equipped one of the newest pivots with T-L’s Precision Point III system, which will allow them to have full control of the pivot from the office computer or a cell phone. Installed as a trial, it will also allow them to experiment with variable-rate irrigation, should they choose to do so at a later date.

“I guess the bottom line is we’re not afraid to try something new,” Nichols concludes. “But once we do make a decision on something, we want it to be the right one.” ■





Daryl Wynn - Booker, Texas

“I’m Tired Of Working On Things.”

Even though it affected a close friendship, the Texas farmer and rancher says he couldn’t afford not to switch to T-L.

After working in the financial field as an insurance agent and investment consultant for nearly 23 years, Daryl Wynn looks at his current role as a farmer and rancher as a second career that will allow him to coast into retirement. As a result, he doesn’t care to deal with any more problems than he has to. That’s one of the reasons any new pivots he installs on his Texas operation are T-L units.

“I’ve always had some interest in farming and ranching,” says Wynn. “But it wasn’t until I retired from business about 18 years ago that I began expanding and farming full time. At this point, though, I don’t care to add any more property. I’ve got all I care to handle.”

To that end, Wynn has two separate operations — one near Booker, Texas, and another nearly 25 miles to the east in Follett, Texas. All total, the two operations currently account for around 1,800 acres with nearly two-thirds of it under center pivot irrigation.

That includes around four circles, or quarter sections of corn, and three circles of wheat. The rest is divided between dryland fields and irrigated pastures that are used for backgrounding around 500 to 600 head of steers twice a year.

“I have a buyer I work with who pretty well knows what kind of cattle I’m looking for,” Wynn explains. “So he’ll put together a group of calves at around 500 to 550 pounds that I can put on grass or winter pasture until they hit around 850 pounds,” he says, noting that the weight gain can take as little as five or six months on irrigated Bermuda grass, crabgrass and triticale. “My buyer also has a really great facility for treating cattle, so part of the deal is he brands them and gives them all their shots before I take delivery. Then, it’s only a 25-mile ride for the cattle from his place

to here. Even after that, I have an employee who rides through the herds every day or so to check for any health problems; so we’ve had pretty good luck keeping them healthy. Our losses are less than two percent.”

Wynn says he has always farmed or ranched to some extent on the side, even as he continued to sell insurance and investments. However, much of it was limited to land that once belonged to his grandparents and other family members. It wasn’t until he began farming full time that he expanded to the current level.

“The farm near Booker already had several pivots on it at the time I leased or bought the property,” he explains. “However, I’ve since added three more pivots to the east farm, which is mostly in grass for cattle, bringing the total up to 12 quarter sections under irrigation.

“The way I learned about T-L pivots is there was an old one on a place I leased northwest of Booker,” he explains. “Later, I purchased another brand of pivot that I put on another farm in the area. Before long, I was spending more on the new electric unit than I was on the T-L, even though the T-L was much older. I wasn’t

spending anything on it.”

As a result of that experience, Wynn switched his allegiance to T-L and Do It Right Irrigation of LaVerne, OK, adding three more new ones in the past couple years. If grain prices were better, he insists, there would be four new T-Ls.

“I have a very good friend with the other brand dealership who called me shortly after I bought the new T-Ls,” he recalls. “I told him he was the best service guy I know and the best I’ve ever worked with and I hated that I had to do it to him. But I also told him, ‘Doggonit, I’m honestly tired of spending money on repairs when there’s a system out there that doesn’t require me to do that.’

“I tell you, the simplicity of the T-L system is just unbelievable. With an electric system, there are about a jillion things that can go wrong. And just about the time you think you’ve seen everything, something else goes wrong. You’ve got micro switches, fuses, tower contacts, high voltage, low voltage ... the list just goes on and on. Plus, I don’t like the electricity. We’ve gotten shocked more than once; and it still scares the daylights out of me.”

Although the majority of the pivots on Wynn’s two farms are still electric models from various brands, he says his goal is to eventually replace the oldest ones with T-L units as he can afford it.

“I have a couple Zimmatics that are almost 40 years old,” he admits. “But they still cost me money every year to keep them up and running.

“I’ve discovered I’m not getting any younger,” he says with a grin, noting that he’s already had surgery on one knee. “So, I don’t need any more land, even if somebody offers. I’ve already got all I can say ‘grace’ over. And I don’t need the headaches of electric pivots. I’ve got enough of them, as well. At my age, I’m looking for simplicity.” ■



Local Dealer:
Carter Agri Systems
Lund, NV

Jacob Carter - Lund, Nevada

Beef Production Is Going In Circles

With T-L Pivots

When it comes to center pivot irrigation, Jacob Carter feels a little bit like the stepchild, especially when people find out he's using the family's newest pivot to irrigate a pasture used for grazing. Still, Carter will put his increase in beef production up against anybody's boost in corn yields, especially when you consider today's beef prices compared to the latter.

"People don't often think about putting a center pivot irrigation system on pasture and using it to produce more beef per acre," says Carter, who manages Carter Cattle Company based in Lund, Nevada. "But that's exactly what

we're doing with a T-L pivot purchased from Carter Agri Systems, which we put on 90 acres of meadow just a couple years ago. The grass production has been amazing. I'm looking at 6,000 to 7,000 pounds per acre per year."

As Carter explains, Carter Cattle Company, which owns about 800 head of Angus cattle, is just one division of Carter-Griffin, Inc., a family enterprise made up of cousins, uncles, etc., that dates back to 1898 when his ancestors moved to the area. Other entities that have since

**"T-L pivots
are ideal
for the
cattleman."**

developed include a commercial farming operation that primarily produces dairy quality alfalfa, and Carter Agri Systems, Inc., a farm equipment dealership that offers a number of different tractor and implement brands, as well as seed, farm supplies and support equipment. Ironically, the business even became a dealer for T-L center pivot systems a couple years ago after the family had already fallen in love with the hydraulic-drive units.

"T-L pivots are ideal for the cattleman," Carter says. "There's

nothing for the cows to rub on except the tires and the frame," he says. "So there's nothing they can damage. With the hydraulic drive and planetary drives on the wheels, there aren't any wires, drive shafts or anything else to worry about."

However, it isn't just irrigation alone that is responsible for the Carters' tremendous boost in beef production. For more than two decades, Jacob and his family have practiced a holistic management program that includes an intensive, rotational grazing program.

"We've actually been working with rotational grazing for

about 27 years,” Carter explains. “That includes the 120,000 acres of BLM (Bureau of Land Management) lease that we have up in the mountains for fall grazing ... plus spring grazing in the valleys. Unfortunately, we’re into the fourth year of a drought, so the cows are basically eating brush until we move them back down here in June and put them on irrigated pasture.”

One of the most successful ventures into intensive grazing, though, is the 90 acres of pasture under the newest T-L pivot. The entire 120 acres that includes the pivot is divided into seven pie-shaped paddocks that consist of clover, alfalfa and cool season grasses. Each has access to a water tank in the center that is filled from the same 500-gallon-per-minute well that feeds the pivot.

As a general rule, Carter will put about 200 head in a paddock for about seven days, at which point he will lower the fence and move them into the next paddock, allowing that one to rest and regrow until the cycle starts over again. In the meantime, the pivot continues to water all paddocks except the one currently being grazed.

‘How does the pivot move around a circle divided by seven different cross-fences?’, you might ask. Rather than lowering or moving fences, which would take hours of labor, or building gates for each wheel tower, which would account for hundreds of dollars in expense,

Carter turned to Pivotal Fencing Systems, a company in Yuma, Colorado, that builds spring-loaded electric fence posts.

“They’re not cheap either,” he says. “But we haven’t found anything that works better in a pivot-irrigated grazing system. As the pivot moves forward, it contacts the wire and literally pushes the fence down and walks over it.”

Since each wire is spring tensioned, the post simply lays over as the tower travels forward. As soon as the second tire clears the fence, the post pops back into position.

“Again, T-L pivots are ideally suited to the Pivotal Fencing System,” he adds. “The company sells a deflector that can be added to the bottom of the tower frame to keep the wire from catching on anything as it passes over the fence; but with a T-L, there’s no need for the extra expense because there is nothing exposed. Plus, thanks to the hydraulic drive, the pivot never stops, so there’s less chance of catching the fence,” he adds, noting that the one thing you don’t want to do is reverse the system before the whole tower has cleared the barrier — unless you want a broken wire. “The pivot just glides over the fence without ever stopping and restarting.”

Carter says his most recent change to the system has been the incorporation of T-L’s new Precision Point III system, which allows him to set the pivot



to automatically reverse at a preset point.

“We try to keep the pivot out of the paddock that the animals are grazing at the time,” he explains. “With the high concentration of animals we put in a paddock, we want to keep it as dry as possible, so they’re not damaging the grass by walking in mud. Plus, the cows tend to move away from the sprinkler, because they don’t like to get wet, and, as a result, end up crowding the fence. With Precision Point, I can set the reverse points wherever we want them ... which means we no longer have to worry about checking the pivot or watching the clock so we get there in time to change the direction. That was wearing me out!

“Now, if we have the cows in

paddock one, for example, we can have it reverse when it gets near the fence in paddock seven and reverse again when it gets to paddock two.”

On the other hand, the newest pivot on the pasture is just one of five T-L pivots the family owns. Two more are on alfalfa fields, another covers a second meadow and the fifth one is on a field of alfalfa and grass that is also divided by electric fences. In this case, though, there are only three paddocks, since the field is both grazed and harvested for winter hay.

“I was going to divide that into seven paddocks, too,” he adds. “But I decided I needed it for hay and three paddocks made it easier to cut and bale, yet I can still rotate it.

“We’ve got another pasture I’d like to put a sixth T-L pivot on,” Carter explains. “It’s already flood irrigated, but I’d rather put in a pivot and graze it more intensively, as well. I just have to figure out how to pay for putting a power line underground so it’s not in the way.”

Based on the success he’s seen with the most recent pivot, though, the investment just might be worth it ... even if it is just used for pasture. ■





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Boswell / One Season Was Enough



Ken Boswell with grandsons Jaxsen and Jayden Heath - Shickley, Nebraska

While T-L Irrigation can list a number of converts from electric pivots among its customer ranks, even Boswell admits that most don't change their mind quite as fast as he did.

"We had an unusual number of problems with electrical issues that turned out to be really frustrating," he admits. "Unfortunately, it took nearly three years to find the problem. It turned out that when they put up the pivot, they didn't get one of the electrical connections tightened on the reversing switch, so every once in a while, it was arcing and blowing fuses. They'd put in a new fuse and sometimes it would run two weeks and other times it would run the rest of the season. By that time, though, I had had enough of electric pivots."

Even today, after the error has been corrected, Boswell says he has more service calls on his one electric pivot than all his T-L units combined. To put that into even greater perspective, Boswell says all but the first two T-L pivots

he purchased have been used machines that he has bought from local dealers.

"The oldest one is a 1976 model and the newest is a 1984 model," he says. "So I'm not afraid to buy a used pivot. However, when I do buy a used one, T-L is the only one I'll buy, because they're so easy to troubleshoot and learn what, if anything, is wrong with them."

"T-L pivots are so simple to work on that I can do most of the work on them myself."

"T-L pivots are so simple to work on that I can do most of the work on them myself," he continues. "In fact, two of my T-L pivots are from the 1976 model 10-tower unit that I had updated and split into two five-tower pivots."

Boswell says 1976 was also the first year he started farming on his own after renting a full section of ground. Once his dad retired from farming in 1988, he took over most of the family farm, as well, adding pivots to the majority of the farm over the past 20 years. His most recent purchases, he explains, have been corner arms that have been added to two existing pivots.

One was a new corner arm, while the other was a used arm that came off of a pivot that had been flipped by a windstorm, leaving the corner arm as the only usable piece.

"Both are GPS-guided," he explains. "I went with GPS on the new one because it's on a rented farm where I didn't want to have to bury wire. The other runs beneath a high-voltage power line, which could have interfered with the electrical signal."

"I do rely on the T-L dealers to deliver and set up any pivot I've

purchased from them," Boswell explains. "And about every other year, I'll have them come out and inspect each of the units. But that's about the only service call I ever need with the T-L units. I've done everything from repairing leaks to changing a motor myself."

In the meantime, Boswell often uses the time he saves by traveling around the state and to Washington, D.C. as state president of the Nebraska Soybean Association.

"The state association works closely with the American Soybean Association, so we work with producers from throughout the country," he explains. "It's strictly a volunteer job, so the only monetary return is reimbursement for expenses," he adds, noting that his wife is also on the Nebraska Farm Bureau state board of directors. "But you learn so much from other farmers through the networking that's involved. Plus, I've often become aware of legislation and regulations that are coming out in the future and been able to apply that to my own farming operation so I'm more prepared when it occurs."

Boswell doesn't have to compare notes with other farmers or see what works in other parts of the country, though, to know that hydraulically driven pivots are the way to go on his farm. He learned that 22 years ago in just one season. ■



T-L Hosts Market Rally Broadcast

The T-L booth at Husker Harvest Days served as the platform for a live one-hour radio talk show.



Producers who stopped by the T-L Irrigation booth at the 2015 Husker Harvest Days had the opportunity to learn about more than the latest T-L center pivot and linear irrigation systems. They also got to hear the latest market news and forecasts as Chip Flory, host of Farm Journal Media's one-hour daily radio talk show, Market Rally, presented a live broadcast from the booth each day of the

three-day show. Off-air, Chip also had the chance to share thoughts with customers and answer questions about the commodity markets.

Market Rally's goal is to be the go-to radio program for farmers and ranchers who are looking to dig deeper into the markets each afternoon. Current host Chip Flory joined Pro Farmer as a floor reporter for Futures World News

in January 1988 after graduating from Iowa State University with a degree in Ag Journalism. He spent three years reporting from the floors of the Chicago Board of Trade and the Chicago Mercantile Exchange as Bureau Chief for FWN.

Chip later served as editor of Pro Farmer Newsletter from 1997 until 2014. As the current editorial director, he continues to play a

role in gathering and delivering the news, information and perspectives to help the 10,000-plus members of Pro Farmer make smart business, farm policy and risk-management decisions.

For T-L Irrigation, the broadcast partnership was a perfect fit, considering that T-L systems have been helping producers manage risk and make smart business decisions for six decades. ■

T-L Irrigation Celebrates 60th Anniversary



Jim Thom, LeRoy and Jean Thom, Dave Thom, Nebraska Governor Pete Ricketts and Nebraska State Senator John Kuehn.

Since 1955, when LeRoy Thom founded T-L Irrigation Company in Hastings, Nebraska, T-L has maintained a "We're farmers" concept, which means the company's marketing decisions are based on how a farmer would view and use the product to make money. So what better way to celebrate 60 years in business than to throw a party and invite all your rural friends and customers ... along with the community that has supported you for six decades?

That's exactly what T-L did this

past September 9 when it held its 60th anniversary celebration at the company's home office just east of Hastings. In addition to a barbecue lunch and tours of the factory, participants were treated to messages from Nebraska Governor Pete Ricketts and Nebraska State Senator John Kuehn, as well as Dave Thom, vice-president of sales at T-L Irrigation.

According to Thom, a lot has happened since 1955, when T-L actually got its start with gravity irrigation systems and tractor

tow lines — selling over 300 miles of the latter in 1956 alone. In fact, it wasn't until 1969 that T-L introduced its first self-propelled circular irrigation system. And, like today's T-L center pivot and lateral irrigation systems, it featured the unique continuous-move hydraulic drive system.

Since that time, T-L has continued to be a leader in design innovation and irrigation technology with advancements like the first T-L linear irrigation system in 1979; the first T-L Irrigation corner system in 1981; the T-L Quick Tow irrigation pivot in 1982, and the four-wheel pivot tow cart in 1993.

In the last 20 years, however, the focus has been largely on providing customers with greater convenience with features like pivot management control systems, GPS functionality, mobile capabilities and GPS



Attendants enjoy a barbecue lunch before the program.

navigation corner systems. In the meantime, the confidence in T-L's hydrostatic design has enabled T-L to offer an industry leading warranty on system gearboxes — up to 8 years/24,000 hours on planetaries, and 8 years/16,000 hours on worm drive gearboxes.

Needless to say, T-L Irrigation has come a long way since LeRoy Thom had an idea for a pivot sprinkler system that operated with hydraulics, instead of electricity. Nothing has been the same since. ■



Chris Davis, Agriculture Manager; Randy L. George, T-L Irrigation International Sales; Vernon van Blerk, Project Manager.

A Sweet Deal For Both Parties

A contract with Kagera Sugar Limited has already placed nearly 100 T-L pivots in African sugar cane fields.

Located next to the Kagera River near Bukoba, Tanzania, and just west of Lake Victoria, the largest freshwater lake in Africa, Kagera Sugar Limited certainly doesn't suffer from a shortage of water. In addition to the vast amount of surface water, the area, which is located nearly 3,804 feet above sea level, receives about 31 inches of rainfall per year.

Unfortunately, those rains don't always come when they're needed most. Moreover, parts of Tanzania have suffered from a drought the past three years. That hasn't affected Kagera Sugar nearly as much as it used to, though, since they had the foresight in 2005 to install 42 T-L high-profile center pivot irrigation units on the 21,000 hectares (51,892 acres) farm. All total, that first round of pivots covered 3,156 hectares, or around 7,800 acres, of sugar cane. Six years later, in 2011, the company purchased another 43 T-L pivots to cover another 3,390 hectares, or 8,376 acres.

Even if the rains do come on time, though, it appears that center pivot irrigation has made a substantial difference. In 2014,

Kagera Sugar Limited set a new production record at 55,000 tons. Prior to that, the best level attained for processed sugar was 50,000 tons. The last 2 seasons have been drought years, in 2013/14 pivots out produced rainfed by 56% and in 2014/15 by 86%. Fortunately, water has never been a limiting factor as two large lift pumps have the ability to move 10,000 gallons per minute to the pivots. Even the smaller pumps, which provide water directly to certain units, have a capacity of 3,300 gallons per minute.

At present, phase 2B, which is already being designed, mapped and reviewed, will add T-L pivots to another 2,811 hectares (6,946 acres). That would put the majority of the sugar cane under center pivot irrigation since only about half the farm's 21,000 hectares (51,892 acres) is devoted to sugar production. The balance is in cattle production.

"T-L was awarded the contract, not only due to their competitive price, but also due to our preference for the simple and reliable hydrostatic drive, which we felt was ideal for our local



Ashwin Rana, General Manager, Kagera Sugar Limited

conditions," says Ashwin Rana, general manager of Kagera Sugar Limited. "The T-L pivot is extremely robust and reliable and requires very little maintenance. Due to the simplicity of the hydraulic drive system, we are able to service, repair and maintain the machines with no need for assistance from the manufacturer. All components are readily available locally."

Rana says they also feel that the T-L continuous movement hydrostatic drive gives them more even fertigation application. Another huge advantage is no electric motors or cable to be stolen. It would be impossible to enforce security inside the cane fields.

"Due to the company's remote location, several of their employees are being trained through operation, service and preventive maintenance programs every year," says Randy

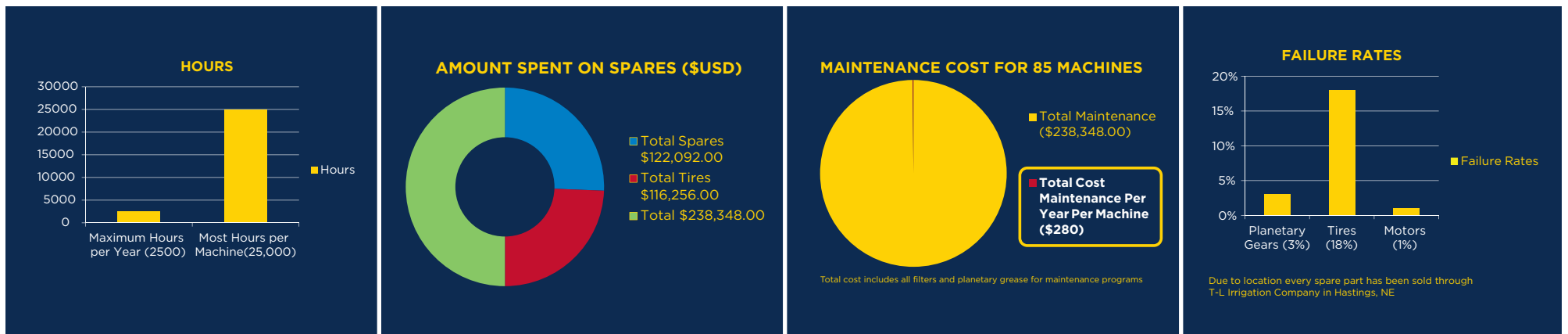
George, T-L Vice-President of International Sales. "However, even with the number of hours they put on a machine, they've had very few problems. Each pivot averages around 2,200 hours of use annually and some of the first machines put into service have already accumulated 24,000 hours or more. Total cost for annual maintenance, including preventive maintenance goods, averages \$280 for each system."

"We have had few gearbox problems and minimal wheel track issues, which we attribute to the T-L continuous drive," Rana adds. "Since the installation was completed and handed over, we have had no need to call on the manufacturer to attend to any of the systems on our estate."

"We would be happy to recommend T-L to anyone looking at installing a center pivot irrigation system," he concludes. ■



KAGERA SUGAR (2005-2015)



T-L'S GPS NAVIGATION CORNER SYSTEM LIKE NO OTHER.

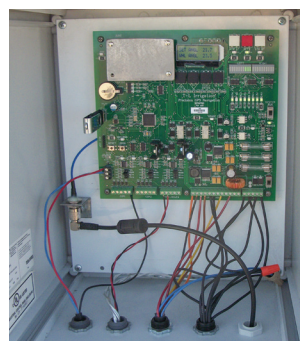


T-L's **GPS NAVIGATION CORNER SYSTEM** is the ultimate in design simplicity.

Featuring Real Time Kinematic (RTK) accuracy and Wheel Angle Sensor (WAS) for true tracking, the package includes the base station, eliminating the need for a subscription. The system tracks multiple constellations reducing the signal loss caused by tree lines and other obstacles and there is no electronic interference from power lines. Operators can easily change the path of the system through a simple "teach" function.

Users get "track on track" accuracy pass after pass, fast start up time, and real-time diagnostics so they can watch it work. Safety is assured through low voltage, DC(24VDC), and there is no buried wire.

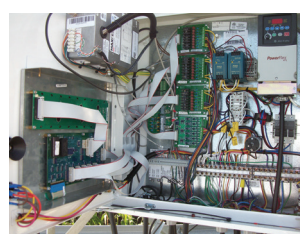
Combined with T-L's hydrostatic design, low maintenance, reliability and unmatched continuous movement, **T-L'S GPS NAVIGATION CORNER SYSTEM** represents the optimum in pivot Corner System management.



Inside T-L Irrigation's control box/panel



T-L's exterior control box



Inside the competitor's control box/panel



Competitor's exterior control box

- RTK Accuracy (sub-inch)
- Base Station included, no subscription required
- WAS (Wheel Angle Sensor) for True Tracking
- Track on Track accuracy, pass after pass
- Fast Start up Time
- "Teach" function to easily change the path
- No electronic interference with power lines
- Tracks multiple constellations, reduces signal loss behind tree lines
- Real Time diagnostics, watch it work
- No Buried Wire required
- Continuous movement of all drive units
- Safe & Simple low voltage DC (24VDC)
- 2 Patents Pending

IRRIGATION *Re*-VIEW

Our customers say it best.

A year ago, Bob Wade, who farms near Glendale, Kentucky, was in the process of building a pond to serve as a back-up water supply for his three newest T-L center pivot systems. Today, that pond is not only finished, but filling up rapidly.

"It's a six-acre pond designed to hold almost 46 million gallons and supply around 800 acres," he says. "In addition to receiving water from a wet-weather creek that feeds into it, the pond can also be fed by a well that pumps about 500 gallons per minute," he adds, noting that he had bridges built so one of the pivots could cross the creek. "My plan was to build the pond for a steady water

supply that could exceed the well capacity when necessary."

Fortunately, 2015 saw abundant rainfall through much of the spring and summer, eliminating most of the need for irrigation. However, that doesn't mean the seven pivots on Wade's farm have any less value. They're still used for applying 32 percent liquid fertilizer during the growing season and applying fungicide when necessary — thereby saving the cost of a ground application or an even higher-priced aerial application. Plus, he knows that both the pivots and the water are always there for drought insurance. ■



Local Dealer:
R&K Pivots
Russellville, KY

Bob Wade - Glendale, KY | tlirr.com/blog/testimonial/bob-wade

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T-L Irrigation Co. Introduces Precision Mobile Drip Irrigation (PMDI)

THERE ARE TWO MAIN ADVANTAGES OF PRECISION MOBILE DRIP IRRIGATION:

Overall water efficiency

With the drip line design, you eliminate evaporation and wind drift associated with traditional sprinklers because wind will not effect it as it applies the water at a super-efficient 95%. You get all the efficiency of surface drip at the much-reduced cost-per-acre price of center pivots.

Dry wheel tracks

In many soils and cropping practices, deep wheel tracks on pivots and linears are a problem. With PMDI™ the drip lines water behind the wheels so the tires run on dry ground.



For more information on Precision Mobile Drip Irrigation (PMDI), call 800-330-4264, email T-L at sales@tlirr.com or visit www.tlirr.com/products/precision_mobile_drip_irrigation.

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STOP COPPER THEFT

No Copper Wire to Steal. Only Possible Irrigation Systems!

Copper wire is being stolen from electrically powered pivot systems. Growers have resorted to 24-hour guards, razor wire, floodlights, and protect themselves. T-L's hydrostatically powered pivot systems use copper wire to steal, eliminating the problem. T-L Irrigation system for a lifetime!

Copper Thieves Steal \$26,000 Worth of Copper Wire in West Michigan
(Fox 17 West Michigan)

Thousands of dollars from a farm here in police say its happened in counties. Watch Video

Bo Stone Testimonial
"The hydraulic pivot system really appealed to us. Copper theft is a serious issue here."

View the new T-L Irrigation website at www.tlirr.com

Whether you are on your desktop computer, iPad or iPhone, browse and find out more about T-L Irrigation Systems on all devices.

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PMDI™ | Precision Mobile Drip Irrigation

At T-L, our motto has always been "The Choice is Simple." With the simplicity of hydraulics and the continuous movement of a T-L, we have the best water application you can get. T-L has gone one step further in combining the simplicity of hydraulics. This new application is called PMDI™ (Precision Mobile Drip Irrigation).

T-L's patented technology has successfully married center pivot technology with drip irrigation. PMDI™ consists of in-line drip hoses spaced at 60", 40" or 30" between lines being dragged through various crops by a center pivot or linear move irrigation system. PMDI™ combines the efficiency of surface drip irrigation (95%) with the flexibility and economics of center pivot irrigation.

There are two main advantages of Precision Mobile Drip Irrigation:

Overall water efficiency

With the drip line design, you eliminate evaporation and wind drift associated with traditional sprinklers because wind will not effect it as it applies the water at a super-efficient 95%. You get all the efficiency of surface drip at the much-reduced cost per acre price of center pivots.

Dry wheel tracks

In many soils and cropping practices, deep wheel tracks on pivots and linears are a problem. With PMDI™ the drip lines water behind the wheels so the tires run on dry ground.

The system consists of in-line drip hoses, in place of nozzles or sprinkler heads, that are dragged by the center pivot or linear move system. As the hoses are pulled through the field, emitters deliver an even water pattern across the full length of the pivot or linear system.

In effect, PMDI™ technology combines the lower cost of center pivot irrigation with the proven efficiency of drip irrigation for total water efficiency that approaches 95%.

GOOSE NECK
HOSE
WEIGHT
REGULATOR
ON LINE DRIP HOSE
EMITTER EVERY FT.

60 YEARS



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