

ILICA



NEWS

Land Improvement Contractors Of America · Illinois Chapter

March - April 2013

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ANOTHER BUSY SUMMMER PLANNED FOR ILICA



Drainage Workshop



2nd Annual Area 6 Golf Outing



Farm Progress Show tile installation project



Summer picnic & member meeting

Featured Inside:

2nd Annual Area 6 Golf Outing, Picnic & Member Meeting *(page 5)*

Drainage Workshop & Tile Installation Planned for August *(page 6)*

The Extension Connection *(page 12 - 15)*

Upcoming Events:

May Board Meeting - May 4th 2 pm
- Lake Pointe Grill, Springfield, IL

Area 6 Golf Outing - June 21, 2013
Meadowview Golf Course - Mattoon, IL

Return To: Illinois LICA
P.O. Box 474
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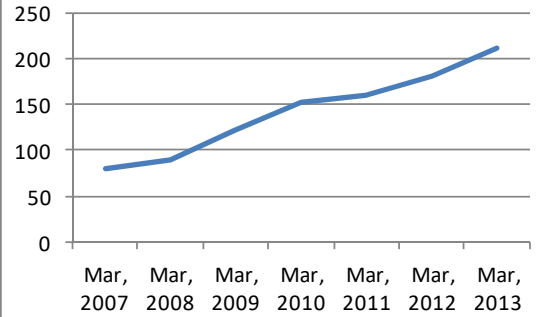
LICA MEMBERSHIP EXPLODES IN JANUARY



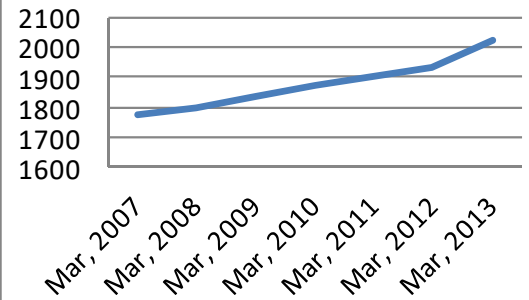
National LICA is doing better than ever, with 87 contractors added to the roles in January 2013 alone. Membership meetings are being held around the country, making Jerry Biuso a very busy man, but the numbers reflect just how well this process works. Of course, that's no surprise to Illinois LICA, who served as Jerry's guinea pig back in 2008 when our traveling membership group started doing this.

The many benefits secured by Jerry Biuso continue to draw members as other trade organizations fight to maintain their roles. As mentioned in the last newsletter, Illinois LICA has more than 200 contractor members, which is a real milestone for the organization but LICA also reached a huge milestone at the end of January, with **over 2000** contractor members nationwide. The proof is in the numbers; we must be doing something right!

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FEATURES

- LICA Membership Explodes in January 2
- June Golf Outing Combined With ILICA Summer Picnic. 5
- Drainage Workshop And Tile Installation Planned For August 6
- Preliminary Agenda For Drainage Workshop. 7
- Surface Discharging Private Sewage Disposal Systems. 9
- National LICA Winter Convention In Savannah 10
- Iowa LICA Midwest Construction Expo & Field Day 11
- Thank You To Our Safety Workshop Sponsors. 15
- Contractor Classifieds 20
- 80th Birthday Open House For Lyle Brooks 20
- Precipitation Benefits Midwest. 23

COLUMNS

- Board Meeting Notice 3
- Presidents Message 4
- New Members 4
- ILICA Ladies Page 8
- The Extension Connection 12-15
- 2013 Committee Members. 16
- Member Application 17
- Featured LICA Benefit: Epic Hearing Health Care. 18
- Advertisers Index 19
- Calendar of Events 19
- Safety Feature: Emergency Planning for Construction Sites. 21

The LICA Creed



Land, the foundation of the Nation
 The basis of all wealth
 The heritage of the wise
 The thrifty and prudent
 The poor man's joy and comfort
 The producer of food, fiber and fuel
 The basis of factories
 The foundation of banks

All that man builds is from the land. We often take it for granted or even abuse it; And yet many, unthinkingly and unknowingly pass the land by. What man does with the land will be the deciding factor of his survival.



Meeting Notice

May Board Meeting Notice

Regular Board Meeting

May 4, 2013 - 2 pm

Committee Meetings 10 am - 1 pm

Lake Pointe Grill

1386 Toronto Rd., Springfield, IL

(See page 19 for additional details)

PRESIDENT'S MESSAGE



Hello from Kempton, IL

SNOW!!! I always wondered what it was good for. I guess this time it was to keep me in the house to write this article.

For those who missed the safety workshop, it was interesting and informative. We all need to be conscience of working safely and to be aware of our surroundings on the job. And I still didn't see the gorilla in the film!

I hope the weather starts to get better soon since I need some practice before Bill Dean's golf outing on June 21st. This year, the Area 6 golf outing has been combined with our summer picnic and member meeting so put the weekend of June 21 – 23rd on your calendars now! Bill is working with Birkey's on planning an equipment demo and other activities for that weekend. The member meeting is tentatively set for Sunday morning, June 23rd, following breakfast.

The National Winter Meeting in Savannah was very enjoyable, especially the weather! Illinois had an enthusiastic delegation present and we all had an opportunity to experience good old fashioned "Southern Hospitality". Thank you to Judy Byers and Janet for participating in the Shoe Box parade.

This August ILICA is planning another drainage workshop at Richland College and the show committee is working with the property's farm manager on a tile installation project during the Farm Progress Show. Although there are still hurdles to overcome, right now, this project looks very promising.

As the weather gets nicer, days get longer and ground gets fit (or not), we need to be careful and WORK SAFELY.

David Haag, President

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JUNE 21ST GOLF OUTING COMBINED WITH ILICA SUMMER PICNIC



As mentioned in the last newsletter, the 2nd Annual Area 6 Golf Outing is set for Friday, June 21st at the beautiful Meadowview Golf Course in Mattoon. That same timeframe is also the customary ILICA picnic weekend, and since Xenya Mucha of John Deere corporate is traveling most of June and would be unable to join us for a picnic weekend in Moline this summer as previously discussed, the committee has decided to delay that opportunity until next year and go with the obvious alternative for this summer.

With the Area 6 golf outing scheduled for Friday, it just made sense to combine the two events and impose on Bill Dean's hospitality just a little bit more! Bill has been working with Don Spence at Birkey's to get an equipment demonstration set up for Saturday while he considers what other enjoyable and entertaining activities our guests can take part in while visiting Mattoon. (and Bill Dean knows his way around entertaining and enjoyable in the Mattoon area!) There are several ideas being considered for the ladies as well, including Rockome Gardens in Arcola, about 20 minutes from Mattoon and the Tanger Outlet in Tuscola, about 30 minutes from Mattoon. Although planning is still in the early stages, the thought for now is to hold the summer member meeting on Sunday morning immediately following a catered breakfast, allowing folks to get back home before dark to almost anywhere in Illinois.

The Dean campground will be open to pull type campers on a first come-first serve basis ... since spots are limited; and Lake Mattoon or Wolf Creek State Park are other local areas open to camping of any kind. Room blocks have been already been set up at nearby hotels, which are listed above. Just mention Illinois LICA golf outing when you call in.

Registration and sponsorship forms for the golf outing will be mailed out as usual since the Area 6 golf outing is one of our annual fundraisers. Combined sponsorship for both area outings will be offered again this year and although we hope our guests attend both events, a separate registration form will be included in that mailing for the picnic.



Check the next issue of the *ILICA News* for all the details and the registration forms. Everyone knows what great hosts Bill and Bev Dean are so a good time is guaranteed for all; bring the whole family along for some rest and relaxation with lots of fun and good food!

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DRAINAGE WORKSHOP AND TILE INSTALLATION PLANNED FOR AUGUST



but the farm manager Dale Aupperle has been working with adjacent landowners on a different plan.

Illinois LICA remains as busy as ever and this summer brings the real possibility of a construction project the show committee is currently working to coordinate. For many years, there has been discussion regarding combining a drainage tile installation project with the very popular Farm Progress Show (FPS) in Decatur. Several roadblocks have prevented getting this done for past shows, but things seem to be lining up this year.

One of the fields that is typically used for the harvest demonstration at the Illinois FPS is in dire need of drainage. It's proximity to Mound Road and Brush College Road have made establishing an outlet for a tile system cost prohibitive

Dale contacted Illinois LICA in the hopes that the organization could help plan and stage the demonstration by getting the outlet and main installed this spring, leaving the lateral installation for demonstration purposes in August during the show. The 2011 FPS had record attendance and with the overwhelming interest in drainage and drainage water management, this demonstration will undoubtedly be a big draw.

This year's Farm Progress Show is scheduled for August 27 - 29, 2013 and the show committee is actively working with Dale and others to make this happen. The exposure and learning opportunity this project presents for our members is as big as it gets. The show committee will need volunteers for the main and outlet installations as well as the actual demonstration in August so the ILICA office will be contacting our drainage contractors as details become final. And although there was discussion about combining our August drainage workshop with this project, Richard Cooke's schedule and the enormity of the FPS is such that it just can't be done.

However, since the ILICA August drainage workshops are so well attended, we're staying with the early August scheduling and returning to Richland Community College August 6 - 8, 2013 with a slightly different format from the past few years. Please note the preliminary agenda on the facing page. The first day will focus on the basics of tile installation and machine maintenance; the second day will be a drainage design session by Richard Cooke and the final day will provide an overview of AGPS & Trimble GPS system software by Mike and Nate Cook and Joey Schlatter.

A hotel block (\$79+ tax) has been established at the Sleep Inn, just off Brush College Road at I-72 but **their cut off date is July 15th**. Please identify your reservation as part of "Illinois LICA's" block. Decatur hotels get very busy in August on the years that the Farm Progress Show is in town, so please get your reservations in early to make sure you have a place to stay close by. They can always be cancelled without penalty much closer to the date.

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PRELIMINARY AGENDA FOR DRAINAGE WORKSHOP, AUGUST 6TH, 7TH, 8TH

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EXTENSION

Day 1 – Panel Discussion

The panel will be made up of several tiling machine and plow associate members with the discussion geared toward business owners & employees containing:

- Equipment Maintenance – wear points and components
- Options in wear parts and attachments for various machines.
- Availability of parts for older machines.
- Maximizing the operational speed of the tiling machines, chain speed versus ground speed and maximum engine torque

Day 1 – Hands-On

- Tile installation hands on. Hook ups, tap tees, bedding, etc.
- Laser calibration & survey points

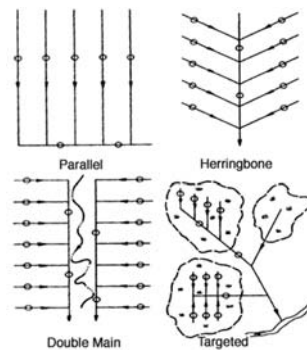
Day 2 – Classroom w/ Richard Cooke

Geared toward business owners and lead employees reviewing the following topics:

- Updates on the drainage guide
- Surface inlet capacities, surface ditching sizing and capacities
- Common sense use of the ADMC control boxes
- Differential Leveling
- Survey terms

Day 2 – Classroom w/ Richard Cooke (continued)

- Computation of elevations
- Allowable errors
- Profile leveling
- Turning points
- Plotting of profile data
- Drainage system design and layout
- Sizing drainage mains
- A discussion about soil types, lateral spacings, and lateral pipe size
- Performance studies on the various drainage products
- Common Drainage Design mistakes
- Compare and contrast different drainage designs.



Day 3 – GPS

Advanced Day with System Overview from Trimble with Joey Schlatter and AGPS being presented by Nate & Mike Cook.

- What is next for GPS, GIS, and Machine Control?
- How can I use it to make me a better contractor?

August 27 - 29, 2013
FARM PROGRESS SHOW 2013
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 Decatur, IL

Illinois LICA will join our partner agencies in the Conservation Tent exhibits. Volunteers needed to help in the ILICA booth all days. Call the ILICA office to sign up!

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ILICA LADIES' PAGE



Excerpt from "A Lifetime Of Good Health, A Guide To Staying Healthy" www.womenshealth.gov; US Dept. of Health & Human Services

Physical Activity for Health

You have probably heard by now that physical activity is good for you. Well, the news in favor of regular physical activity keeps coming in! An active lifestyle can lower your risk of early death from a lot of causes. There is strong evidence that regular physical activity can also lower your risk of:

- Heart disease
- Stroke
- High blood pressure
- Unhealthy cholesterol levels
- Metabolic syndrome (see box)
- Type 2 diabetes
- Colon cancer
- Breast cancer
- Falls
- Depression



What Is Metabolic syndrome?

Metabolic syndrome is a group of conditions that put you at risk for heart disease and diabetes. These conditions are:

- High blood pressure
- High blood glucose levels
- High levels of triglycerides, a type of fat, in your blood
- Low levels of HDL, the good cholesterol, in your blood
- Too much fat around your waist

Regular activity can help you reach and stay at a healthy weight. It can also improve your cardiorespiratory (heart, lungs, and blood vessels) and muscular fitness. For older adults, activity can improve mental function.

Examples of moderate and vigorous physical activities

	Moderate Activities	Vigorous Activities
Leisure activities	Walking at a brisk pace, ballroom dancing, leisurely bicycling, roller skating, canoeing	Jogging, running, bicycling fast or uphill, jumping rope, swimming continuous laps
Sports	Golfing, softball, badminton, downhill skiing, Frisbee playing	Singles tennis, beach volleyball on sand, basketball game, soccer, cross-country skiing
Activities at home	Pushing a power lawn mower, gardening, raking leaves, shoveling light snow, moderate housework, hand washing/waxing a car, actively playing with children, riding a stationary bike	Pushing a hand mower, heaving or rapid shoveling (more than 10 lbs. per minute), carrying items weighing 25 lbs or more up a flight of stairs.
Activities at work	Maid service, waiting tables, feeding or grooming farm animals, manually milking cows, picking fruits or vegetables, walking while carrying a mailbag	Teaching an aerobic dance class, heavy farm work

It's never too late to begin physical activity. If you haven't been active for a while, though, check with your doctor before start-ing an exercise program.

Physical activity may also help:

- Improve functional health for older adults (your health-related quality of life)
- Reduce waistline size
- Lower risk of hip fracture
- Lower risk of lung cancer
- Lower risk of endometrial cancer
- Keep a healthy weight
- Increase bone density, which can lower your risk of bone loss
- Improve sleep quality



So what do you need to do to be active? Health benefits are gained by doing the following each week:

- 2 hours and 30 minutes of moderate-intensity aerobic physical activity **or**
- 1 hour and 15 minutes of vigorous-intensity aerobic physical activity **or**
- A combination of moderate- and vigorous-intensity aerobic physical activity **and**
- Muscle-strengthening activities on 2 or more days (like working out with hand weights)

You can gain even more benefits by boosting activity to 5 hours of moderate-intensity or 2 hours and 30 minutes of vigorous-intensity aerobic physical activity each week.

SURFACE DISCHARGING PRIVATE SEWAGE DISPOSAL SYSTEMS AND WATER POLLUTION CONTROL



A popular type of private sewage disposal system in Illinois used by many homeowners is designed to treat sewage and then discharge treated wastewater to the surface of ground rather than below the surface where the water is absorbed. This type of surface discharging system allows the treated sewage to



go into drainage ways, gutters or even directly into a creek or lake. It is a type of system that may be the only choice in areas of the state where there is no city sewer available and soils don't absorb water well. However, in the near future this type of system will be required to get a permit from the Illinois Environmental Protection Agency, in addition to the construction permit obtained from the local health department.

What is a NPDES permit?

Both federal and state laws prohibit discharges of contaminants to waters of the state without a National Pollutant Discharge Elimination System (NPDES) permit. Illinois EPA is responsible to administer the NPDES program in Illinois. In this case the NPDES permit is for surface discharging private sewage disposal systems.

What is the purpose of this NPDES permit?

This general NPDES permit identifies requirements for operating the sewage disposal system that prevent water pollution and safeguard the public health of families and communities. If wastewater routinely comes out of your sewage system, having this permit brings you into compliance with federal law.

When will NPDES permits be required?

Illinois is awaiting final approval from USEPA before it can begin issuing this NPDES permit. However, a new law requires that after January 1, 2013, no surface discharging private sewage disposal system may be permitted by the health department unless an NPDES permit from Illinois EPA is also issued for that system.

Who will be required to obtain coverage under this NPDES permit?

If you are a homeowner who is installing a new private sewage disposal system that discharges the liquid waste, or effluent, directly to the ground's surface, a collection tile, a natural drainage way, or a body of water, then you will be required to obtain coverage under this permit. At a future date, users of existing systems will also need to obtain coverage under this permit.

What will be required by this NPDES permit?

This permit will establish various pollutant limits, as well as sampling, inspection and maintenance requirements. The system must be inspected twice a year by qualified inspectors, licensed by the Illinois Department of Public Health (IDPH). A

sample must be collected once a year to assure that the system is treating sewage adequately and is meeting the various pollutant limits in the permit. In addition, the homeowner must furnish proof of maintenance for the system to Illinois EPA.

Is there a cost for coverage under this permit?

No.

What are the costs associated with sampling and maintenance?

The average estimated cost of a maintenance agreement is \$200 per year and the average estimated cost of sampling is \$100 per year.

How do I obtain an NPDES permit?

When the NPDES permit requirement is triggered, you will be notified by Illinois EPA about the process to obtain the new permit. Again, the NPDES permit will initially be required for new systems at the time they are being permitted by the health department, not for existing systems.

Information supplied by Illinois Environmental Protection Agency
For more information: Contact Marcia Willbite, Illinois Environmental Protection Agency Water Bureau Chief, at Marcia.Willbite@illinois.gov

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NATIONAL LICA WINTER CONVENTION IN SAVANNAH IS WELL ATTENDED



Savannah Georgia is a delightfully friendly but busy town, which the author would highly recommend to anyone looking for a get-away from the winter weather in February. This year's National LICA convention was one of the best; with outstanding attendance, great tours and a fun-filled Mardi Gras reception to kick things off. With only one cool, rainy day, the weather was a welcome change from Illinois snow and rain, providing ample opportunities to walk to the Riverfront market area, catch a ride on a trolley or horse drawn carriage and enjoy the rich history (and food and art and personalities) Savannah has to offer.

Attendance and participation was up this year with tremendous associate support and excellent attendance at the committee meetings. The conference was a nice blend of fun and business and let's not forget to thank Eileen Levy, Allison

Hack and Jerry Biuso for the months of hard work that went into coordinating this event. The food, entertainment and venue could not have been better.

And although California won the shoe-box float contents, Illinois did not walk away empty handed. Norm Kocher was recognized for his efforts in bringing in the highest number of contractor members for 2012, winning an Outstanding Achievement Award. Norm had some serious competition this past year but his twenty (20) contractor members secured him the top spot.

Judy Beyers was also recognized for her hard work and support of both ILICA and Beyers Excavating LLC, winning the LICA Lady of the Year Award. Illinois has the impressive distinction of bringing that award home two years in a row with Veronica Seevers winning it last year in San Diego. New York was presented with the Top State Award for surpassing their membership goals with Bob Bak of South Dakota receiving Contractor of the Year and Norma Lashley being awarded the Entrepreneur of the Year.

Norma Lashley, President of BSB Construction Inc. of Curtis NE, also made Nebraska LICA history by being elected as their first woman President. BSB Construction has enjoyed a 30 year history of NLICA involvement, which will continue as Norma serves as state chapter president.



(Upper left) Crowded dining room as breakfast is served. (Above, top left to lower right) Illinois delegates at the Board meeting (President Dave Haag, Norm Kocher, Wayne Litwiller, Vice President Tom Beyers and Jon Seevers; Jerry Biuso presents Norm Kocher with an Outstanding Achievement award for bringing 20 new contractor members to the LICA roster. Judy Beyers receives the LICA Lady of the Year award from National LICA V.P., Bob Clark; Adam Zimmerman of Caterpillar presents exiting LICA President Merlin Welch with the personalized CAT desk set. Maura Dibble, Judy and Tom Beyers all decked out for Mardi Gras night; Cargo freightliner being escorted down the Savannah River behind the LICA convention hotel; Jerry Biuso with his new LICA membership motto, (*kiddding of course!*) compliments of Adam Zimmerman

IOWA LICA MIDWEST CONSTRUCTION EXPO & FIELD DAY: JULY 31 - AUGUST 1, 2013



1741 290th Street, Melbourne Iowa, just 1/2 mile east of Melbourne, and rain or shine, the show will go on! Let's support our neighbors to the west and visit this outstanding demonstration.

From I-80 W: Take US 6/IA-14 exit 164, toward Newton/Monroe. Turn right onto US-6E/IA-14N and continue to follow IA-14N for 9.7 miles. Turn left onto CR-F17/Highway F17 W/IA-223 and follow 2 miles. Turn right onto Highway S62 N/CR-S62 and continue on CR-S62 for 8 miles. Turn right onto 290th St/CR-E63 and the farm is on the left in 1/2 mile.

This year's field day will be the biggest ever. Iowa LICA volunteers will be moving thousands of yards of dirt as the construction of the farm pond begins. The pond is the last large project to be completed on the farm.

Of course, it will take a lot of equipment and man power. They will move dirt for almost 1500 feet to construct the pond and wetlands. They will also extend the roads around the property so everyone will be able to enjoy a ride around the farm to see all the conservation projects that have been completed. If you haven't had an opportunity to visit the Iowa LICA farm, this would be a great year to do it.

Iowa LICA would like to invite ILICA contractors to come see what all the fuss is about. The farm is located at



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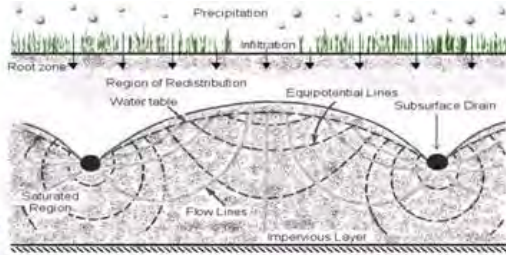
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The Extension Connection

DETERMINATION OF OPTIMUM TILE DEPTH AND SPACING

One of the most important steps in the design of a drainage system is the determination of tile depth and spacing. Apart from situations where the maximum permissible depth is constrained by the depth of the outlet drain or channel, the designer has a choice, and the decision affects both the cost and performance of the drainage system. For example, tiles spaced 60 feet and 80 feet apart require 730 and 550 feet of laterals per acre, respectively. The lateral requirement per acre can be determined with the Lateral Specification tool on the Illinois Drainage Guide (<http://www.wq.illinois.edu/dg/Equations/Laterals.exe>). In addition, the narrower-spaced systems will require 25% more tie-ins than the wider system. Thus, the depth/spacing choice can have a significant effect on costs.

Soils vary in their hydraulic conductivities, the rate at which water flows through the soil under the effect of gravity, and their drainable porosities, the depth of water, in feet, released for a foot drop in the water table. It stands to reason that the depth/spacing requirement for a specified intensity of drainage varies from one soil to the next. Figure 1 shows the relationship between water table drawdown and drained depth for Cisne and Drummer

Drummer. If water tables are lowered from the soil surface to drains three feet below the surface, 1.4 inches and 2.8 inches of water would drain from Cisne and Drummer profiles, respectively. In addition Cisne has a low conductivity layer that reduces the rate at which water moves through the profile. Thus, these two soils have different depth/spacing requirements for the same level of drainage.

Drainage systems are designed based on either steady-state or transient conditions. For steady state (rainfall-based) drainage design (the most commonly used design procedure), the depth and spacing of the drains are selected so that the water table will remain in a fixed position, usually a foot below the soil surface, during a steady rain (Figure 2). Since the water table is not changing, the rate at which water leaves the drains is the same as the rainfall rate. This drainage rate is known as

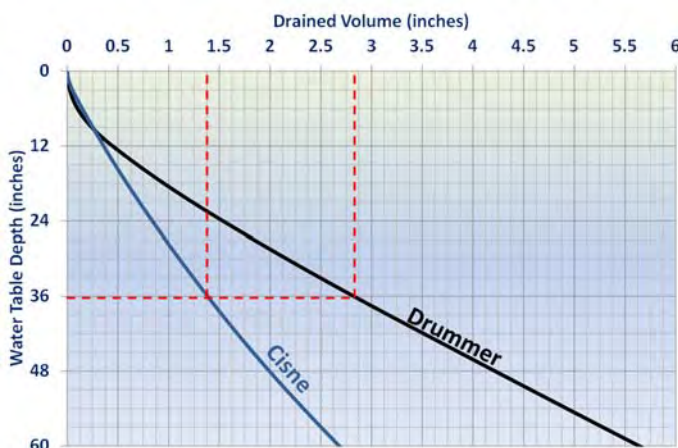


Figure 1. Relationship between drainage depth and water table drawdown in Cisne and Drummer soils.

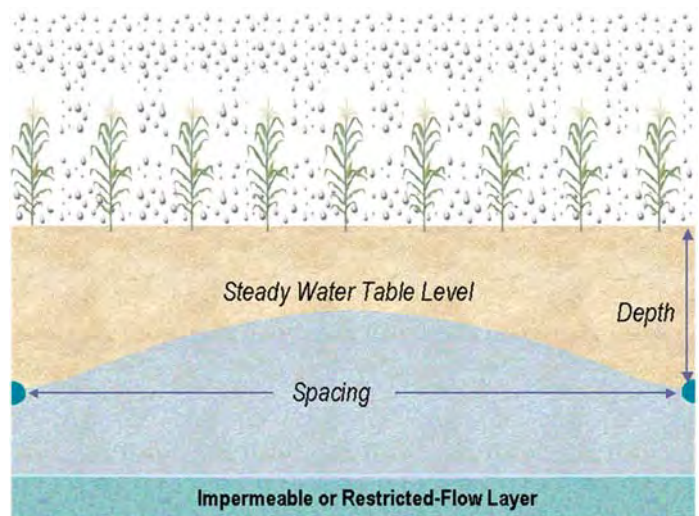


Figure 2. Scenario for steady state drainage design.

the drainage coefficient. For typical row crops (corn, soybeans, etc.) a drainage coefficient of 3/8 inch per day is used for design. The drainage coefficient is almost directly proportional to depth, and inversely proportional to the square of the spacing. Thus, for a given depth, if the spac-

DETERMINATION OF OPTIMUM TILE DEPTH AND

CONT.

ing is halved, the drainage coefficient will quadruple. As shown in Figure 3, a 3/8 inch drainage coefficient in Flanagan can be achieved with 3 feet deep drains spaced 58 feet apart, or 5 feet deep drains spaced 79 feet apart.

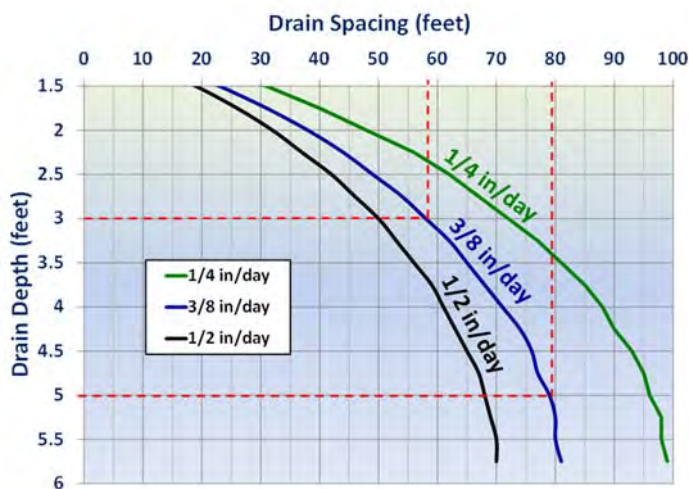


Figure 3. Relationship between depth, spacing and drainage coefficient for Flaganan soil.

For transient (soil-based) drainage design, the depth and spacing of the drains are selected so that the water table will be drawn down from the soil surface to one foot below the soil surface in one day, or from the surface to two feet below the soil surface in two days (Figure 4). The drain flow rate decreases over time as the water table falls and the head decreases. The depth of water removed per foot of water table fall, the drainable porosity, is dependent on the soil type. For typical Illinois soils the drainable porosity is approximately 3/8 inch per foot.

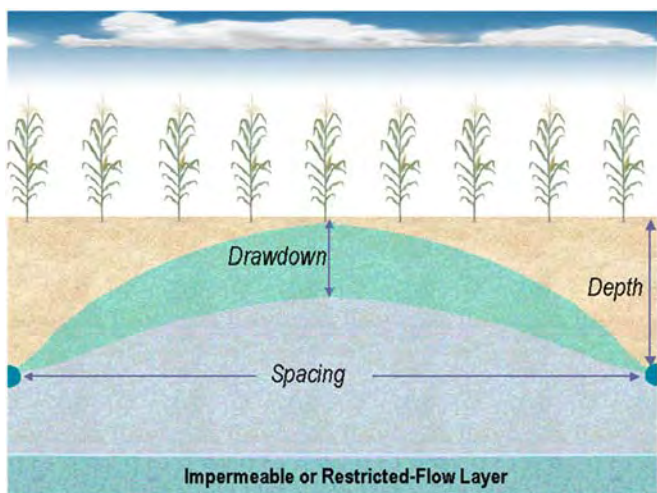


Figure 4. Scenario for transient drainage design.

DRAINAGE GUIDE ROUTINES FOR DEPTH AND SPACING

There are three routines in the Illinois Drainage Guide that can be used to evaluate depth and spacing:

General Recommendations (<http://www.wq.illinois.edu/dg/Equations/Drain%20Spacing.exe>)

This routine is located under the Drainage Guidelines subheading. The interface is shown in Figure 5. It provides depth/spacing and surface drainage recommendations for 266 hydric soils in Illinois, listed in both alphabetic and numeric order. It also indicates the counties in which soil can be found, and has a link to the NRCS Official Series Description for each soil.

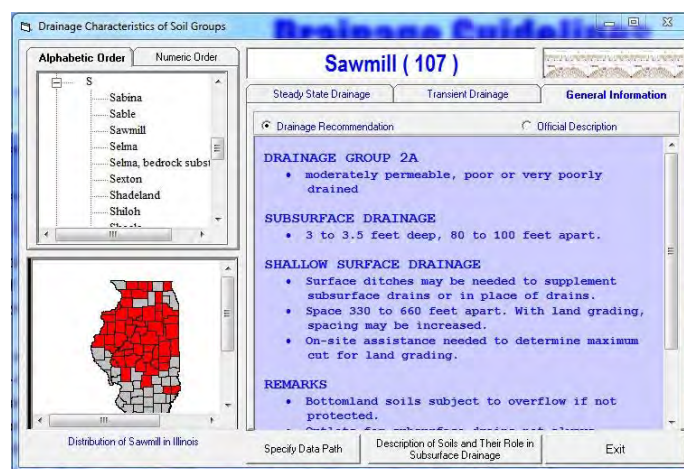


Figure 5. Interface for the General Recommendations routine.

County Specific Simulations (<http://www.wq.illinois.edu/dg/Equations/Site%20Specific.exe>)

This routine, shown in Figure 6, is also located under the Drainage Guidelines subheading. First the user selects a county, a soil from the list of hydric soils in that county, and depth and spacing ranges. The DRAINMOD program is then used to do a simulation for each depth/spacing combination, with 30 years of historical rainfall and temperature from the selected county, and results, including the relationship between depth, spacing and relative corn and soybean yield, are presented graphically (Figure 7). The user also has the option of performing an economic analysis, and selecting a depth/spacing combination based on return on investment. In Figure 7, for

DETERMINATION OF OPTIMUM TILE DEPTH AND

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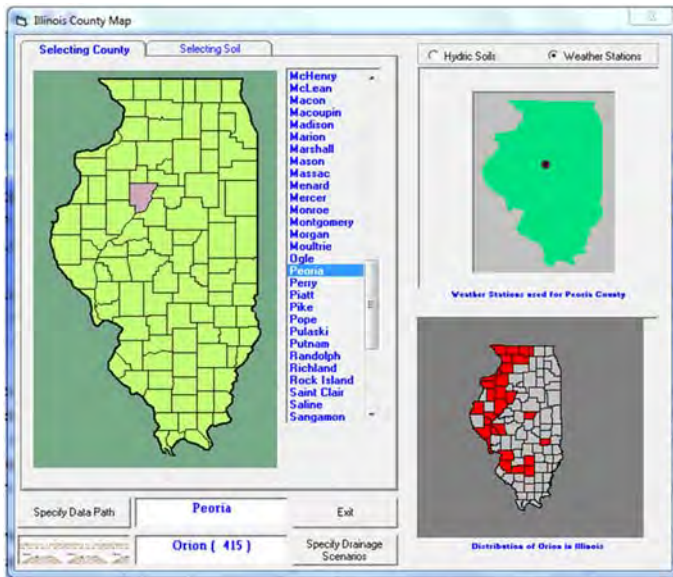


Figure 6. Interface for the County Specific Simulations routine.

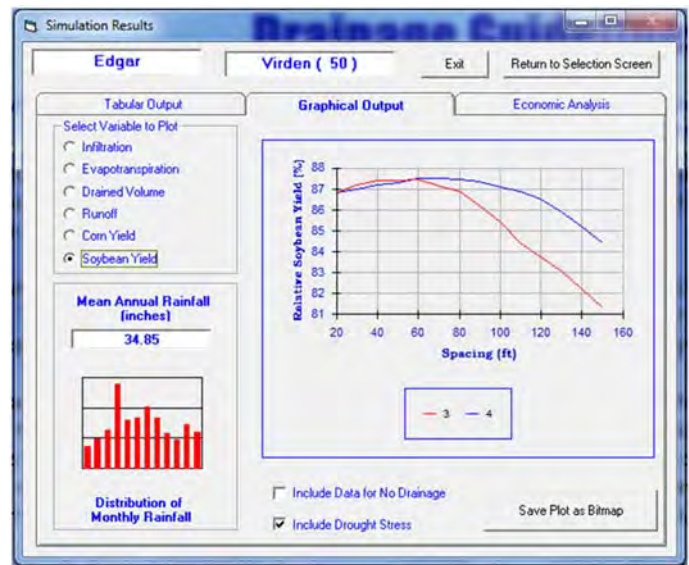


Figure 8. Simulated yield results for soybean grown on Virden soil in Edgar County.

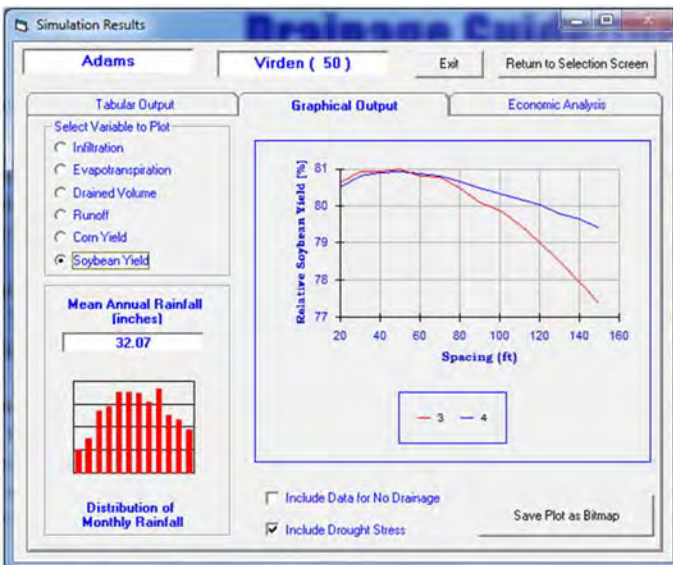


Figure 7. Simulated yield results for soybean grown on Virden soil in Adams County.

example, there is not much difference in simulated soybean yield for spacing ranging from 40 to 80 feet, for both 3 feet and 4 feet deep tiles. Yield declines when the tiles are spaced more than 80 feet apart. It may be most economical, therefore, to space tiles 80 feet apart on Virden soil in Adams County. By way of contrast, for soybean grown on Virden soil in Edgar County (Figure 8), the optimum spacing for 3 feet deep tiles is less than the optimum spacing for 4 feet deep tiles. This routine is being updated and will include climate data for more counties and soils across the Midwest.

Drainage Equations (<http://www.wq.illinois.edu/dg/Equations/DrainFlows.exe>)

This routine is located under the Subsurface Drainage subheading. As shown in Figure 9 it can be used for both steady state and transient drainage design. For steady state drainage, the user has the option of specifying the tile depth and the drainage coefficient and determining the corresponding spacing, or of determining the drainage coefficient corresponding to a specified depth/spacing combination. For transient drainage, either the spacing required to drop the water table a given level in a specified time, or the time required to drop the water table to a given level, can be determined.

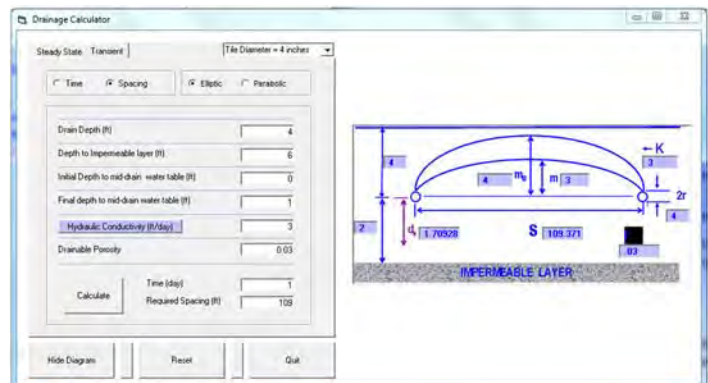


Figure 9. Interface for the Drainage Equations routine for transient drainage design.

DETERMINATION OF OPTIMUM TILE DEPTH AND

CONT.

WATER QUALITY CONSIDERATIONS

Research done in North Carolina, Minnesota, Indiana, and here in Illinois seems to indicate that shallower drains placed closer apart results in less off site nitrate transport than deeper drains placed at a wider spacing, even if both have the same design drainage coefficient.

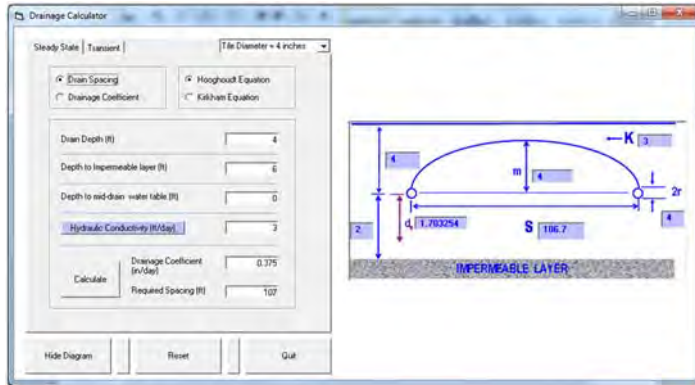


Figure 9. Interface for the Drainage Equations routine for steady state drainage design.

The next Extension Connection column will address bioreactor design.

THANK YOU TO OUR SAFETY WORKSHOP SPONSORS



A very special thank you goes out to Bruce Mosier of Prins Insurance Inc and Galen Baxter of United Fire Group for facilitating the 10 Hour OSHA sessions at the February safety workshop in Morton. Prins Insurance and United Fire Group are always willing to support ILICA events, but their generosity in spending two days away from their families to help our ILICA contractors learn to work safer is very much appreciated.

Brent Breedlove, B.E.B. Excavating, Inc., facilitated two Certified Flagger Training courses during the workshop as well, maintaining the certification status for close to thirty contractors who took the course two years ago. Precision Intakes provided sponsorship for the workshop, which helps to keep our registration costs low. A very special "Thank You" goes out to everyone who helped make this training a success!

~~PRECISION INTAKES~~



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CALENDAR OF EVENTS

Illinois

Illinois LICA Regular Board Meeting

Lake Pointe Grill, Springfield Illinois
 Saturday, May 4, 2013 - 2 pm
 Committee Meetings - 10 am - 1 pm

2nd Annual Area 6 Golf Outing

Meadowview Golf Course - Mattoon, IL

Friday, June 21, 2013
 12 Noon - Lunch; 1 pm - Shotgun Start

Summer Member Meeting & Picnic Mattoon, IL

June 22 - 23, 2013
 Birkey's Equipment Demo / Ladies Tour
 Other Details TBA

5th Annual Area 3 Golf Outing

Pine Lakes Golf Course - Morton, IL

Friday, September 13, 2013
 12 Noon - Lunch; 1 pm - Shotgun Start

Drainage Workshop

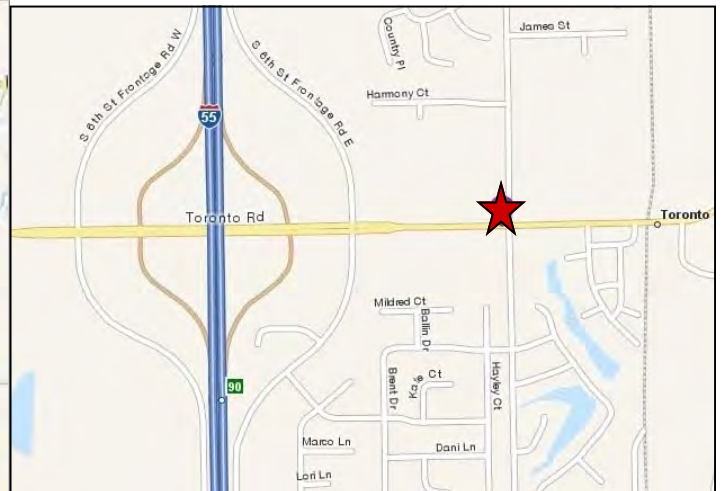
Richland Community College - Decatur, IL

August 4 - 6, 2013

ADVERTISERS INDEX

Agco, Inc.	7
Agri Drain Corp	2
BM Truck Equipment	4
Contractor Classifieds	20
Fratco, Inc.	11
Great Lakes Inter Drain	9
JCG Midwest.	2
Martin Equipment of Illinois	24
Midwest Auger Aerator.	24
Precision Intakes Ltd	24
Prins Insurance Inc./United Fire Group	4
Prinsco	5
Roland Machinery Co	15
RWF Bron	23
Schlatter's	6
Springfield Plastics Inc.	24
Wisconsin Plastic Drain Tile	23

May 4th Board Meeting Directions: Lake Pointe Grill is at 1386 Toronto Rd., Springfield, IL. From I-55, take the Toronto Road exit, Exit 90 and head East. Lake Pointe Grill is on the right just under 1/2 mile after taking the exit onto Toronto Road.



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PRECIPITATION BENEFITS MIDWEST



Significant snow, rain events boost Midwest optimism for Spring recharge

Source: <http://www.nacdn.org/> by Janell Baum

Though the Plains are still in a serious drought, wet weather that moved across the Midwest was a welcome addition to the weatherman's forecast last week.

The latest U.S. Drought Monitor shows 51% of the contiguous U.S. is still in D1-D4 stage drought, though much of the significant drought appears to be centered on the Plains states.

Hardest-hit areas remain in Nebraska, Kansas, South Dakota, Wyoming, Colorado and into Oklahoma and New Mexico.

"We did see fairly significant declines in hay, cattle and winter wheat in drought for the week ending March 12," says USDA Meteorologist Brad Rippey. "Hay in drought down 5 percentage points from the week before to 51%, cattle in drought down 4 points to 62%, and winter wheat in drought down 2 points to 56%."

Thing of the past? Midwest corn farmers hope drought-stressed crops don't show up again this summer.

Rippey says warmer temperatures have also hurt crops' efforts to emerge from significant drought without much harm. Mild weather is expected to continue in the some of the southern growing areas, Rippey says, which isn't a good situation for winter wheat.

"That has coaxed winter wheat out of the vegetative stage. It means that the winter wheat that is already drought-stressed will require moisture soon to prevent any additional stress on the crop."

He projects that there will be a series of disturbances the next several days, mainly tracking across the northern United States, though the heaviest rain and snow will fall across the northern tier.

As for lingering moisture problems, 91% of the High Plains is still experiencing D1-D4 drought.

Midwestern farmers welcomed snowfall and rainfall – in some areas mixed. This trimmed areas of abnormal dryness in Michigan and Indiana and lingering drought conditions on the monitor reflect soil moisture deficits.

Matthew Rosencrans of the NOAA/National Weather Service Climate Prediction Center says frozen ground in the Midwest isn't allowing the soil to take on as much moisture as it can use. Streams and river rose and fell rapidly, he reports, indicating excessive runoff and lack of penetration.

On the coasts, drought has improved in Virginia, though moisture was not enough to change drought intensity in the Northeast. In the Southeast, drought improved in Alabama and north Central Georgia with above-normal rains. However, drought expanded slightly in Florida.

On the West Coast, portions of California received welcome rains, prompting removal or trimming of some D1 areas in Central California and areas of D0 in Northern California.

However, Rippey adds that there has been some premature snowmelt in the west, complicating the melt & runoff cycle.

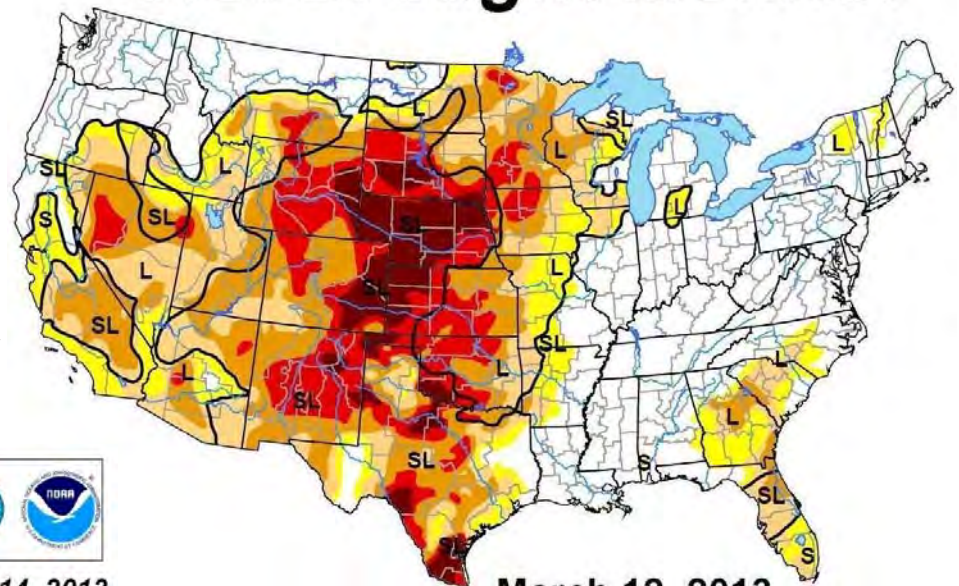
Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor



Released Thursday, March 14, 2013

Author: Matthew Rosencrans, NOAA/NWS/NCEP/CPC

March 12, 2013

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