

ILICA



NEWS

Land Improvement Contractors Of America · Illinois Chapter

March - April 2014

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Upcoming Events:

May Board Meeting -
May 3rd - 2 pm - Brimfield, IL

Statewide Membership Sweep with
Jerry Biuso - June 20 - 27, 2014

ILLINOIS LICA EXHIBITS AT O.W.P.I. SHOW IN COLLINSVILLE (page 6)



Also Featured Inside:

Illinois Statewide Nutrient Reduction Strategy (page 9)

Annual NRCS/ILICA Meeting Report (page 10)

EPA & Army Corp Clarify Protection for Streams & Wetlands (page 15)

Extension Connection:

Determination of Optimum Tile Depth and Spacing (page 12-15)

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Thanks to everyone who brought t-shirts for Judy at the March Board Meeting! She has a good start but will need **LOTS** more to make the quilt for next year's Ladies Auction Item! Please send one of your gently used business t-shirts with logos or names or both! Whatever you can spare.

It will make a beautiful quilt with ILICA written all over it!!



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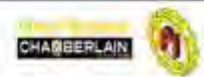
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Meeting Notice

Board Meeting Notice

May Board Meeting
May 3, 2014 - 2 pm

ILICA Office

118 E. Knoxville St., Brimfield, IL
Committee Meetings 10 am - 1 pm

Map & Directions on page 19

PRESIDENT'S MESSAGE




Greetings from Kempton ... which has always been know as "Little town, big heart".

My calendar say's it is spring, but, it is hard to convince my body.

Looks like we have another busy summer planned for Illinois LICA. The Area 6 golf outing will be at Mattoon on June 20th. Just a week later on June 27th, we have an equipment demonstration with hands on operating at John Deere's Proving Grounds in Coal Valley. We're hoping for a lot of attendance at the meeting so the picnic and members meeting will be held immediately following the festivities at the proving grounds instead Saturday morning. There is still a block of rooms at the Stoney Creek Inn at Moline though if you want to stay overnight.

There's another August drainage workshop being planned and we'll be heading back to Morton for the Area 3 annual golf outing in September so there is a lot going on.

In March I attended the winter National LICA convention in Las Vegas in conjunction with Con-Expo. I was pleased to see so many members and spouses from Illinois. Committee



Notice anything different about this issue of the *ILICA News*?

The new publication year begins with the July-Aug 2014 issue. Next year's ad contracts will be mailed out soon so we need to know what you think about going full color!

Please contact the ILICA office at janet@illica.net to let us know whether or not you support this change.

meetings were good with interesting information on new rules and regulations.

Congratulations to Steve Anderson. He was elected National Vice President. We know he'll do a fine job since he is very dedicated to the organization. He's done a great job as Region 4 VP!

As everyone gets slowly getting back into the groove, let's remember to work carefully. "Safety First"

David Haag, President

P.S. Marsha wanted me to mention that Veronica Seevers will be the National LICA Ladies committee chair this next year. Congratulations to Veronica and thank you for taking on this responsibility.

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Jerry and Doug Oberhelman at Con-Ex

Jerry got a nice note from Doug Oberhelman following Con-Ex stating that "LICA is a super organization and one that Caterpillar is proud to be associated with!"



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ILLINOIS **LICA**'S FIRST EXHIBIT AT THE ON-SITE-WASTE PROFESSIONALS OF ILLINOIS (O.W.P.I.) CONVENTION



Wayne Litwiller has tried for years to come up with a way to combine the ILICA and O.W.P.I. conferences, but there always seemed to be some kind of drawback that kept that from happening. Well, like the old saying goes, "There's more than one way to skin a cat!" and so there is also more than one way to combine ILICA and O.W.P.I. ... and that's by allowing our membership committee to exhibit and sponsor a lunch at the 2014 O.W.P.I. conference.

So many of our members donate to Paul the Bear (or Buck the Duck this year since Paul was still in hibernation) to

And, from the membership team's efforts, two more contractors have been added to our numbers along with the return of one associate who originally joined in 2010. There are at least a few more Norm is working on from his area so it may take a little time, but Wayne's commitment to bringing septic contractors into ILICA looks like its starting to pay off. And as you'll also notice on the following page, Wayne was recognized for this effort by Mike Hagen from ADS with the Hancor Award at the National LICA meetings in Las Vegas this year. Congratulations Wayne and thank you ... again!



(left to right) Break time between sessions with refreshments in the exhibit hall; large displays of tanks, haulers and everything on-site-waste in between; Wayne and Kevin reviewing the class itinerary looking for ideas for future ILICA educational sessions.

support ILICA's membership efforts. That support enabled Wayne and Norm to step out on a limb, hoping this event might pay off in increased visibility within this segment of the land improvement industry. Tent cards with the ILICA logo sat in the middle of each table during the sponsored lunch and although the day was filled with several educational sessions, lots of contractors made it by the ILICA exhibit booth and took time to hear about "the best benefit package of any trade association out there."

Wayne has served for many years on the committee considering septic regulation updates and as such, has said for a long time now that mandatory Continuing Education Credits (CEC) would be part of those changes. And as of 2014, it became law that licensed septic contractors must have 3 CEC's annually to renew their licenses. As you can see from the photo on the cover of this newsletter, more than 100 contractors came from all over Illinois (and not in the best weather either) to attend an event that offered enough sessions to fill that requirement in one day. As an educational organization, this is yet another opportunity for ILICA to serve our members by also offering qualifying sessions at conventions or workshops. Sessions must be approved by the Illinois Department of Public Health but a variety of topics apply to this part of our industry and would also appeal to the general membership as well.

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LICA WINTER CONVENTION AND CON-EX IN VEGAS



(left to right) Illinois delegates preparing to vote; Mike Hagen presents Wayne Litwiller with this years Hancor Award; LICA booth at Con-Ex with lots of LICA green shirts and prospects.

Every three years, Con-Ex brings National LICA back to Las Vegas for the winter meetings and brings in LICA members in from all over the United States to represent the organization at the LICA booth during the largest construction trade show in the world. First, Jerry Biuso was able to secure 26 new contractor members (nationally) at this year's show, blowing past performances out of the water! Of course, each year is a learning experience so perhaps Jerry's fine tuning each Con-Ex is right on target; or perhaps LICA's name is just more recognizable these days, but whatever it is, it's working.

Prospect lists were sent out to each state from the badge scans collected at the show and Illinois received contact information on 12 contractors that are being followed up on. An email from Joanie Micsky, Pennsylvania E.D. noted she has already received a check from one of those contacts, so again, the numbers continue to grow from this event. But it is quite an effort for Jerry and the National LICA office to orchestrate the winter meetings, fun activities and the week long exhibit schedule from more than half way across the country. Eileen and Allison work very hard to make Jerry look this good!

Before Con-Ex opens though, there is the business of the LICA winter meetings. Support from LICA associates was as outstanding as ever and the opening reception was packed! Of course, Con-Ex is the "big show" so Jane Deere (Xenya) wasn't able to join us for that but she was as present as ever at the John Deere display inside the show. Other LICA business included a vote on a proposed by-laws change and our own Steve Anderson was elected as the new LICA Vice President, opening up the Region 4 V.P. position which Nordis Estrem of Minnesota has filled. We welcome Nordis as our new Region representative and look forward to seeing her at some of our events. Steve has been an outstanding addition to the LICA leadership and will continue to serve the association well in his new position.

Our good friend Adam Zimmerman from Caterpillar joined LICA for the awards banquet, presenting the traditional CAT pen and pencil set which every exiting LICA president

(right) Illinois group gathered for the awards banquet.



looks forward to receiving. Wayne Litwiller received this year's Hancor Award and Fran Miller received the LICA Lady's Award for her devoted support of Steve as he has served as Region 4 VP all the way through being LICA president this past year. Contractor of the Year was awarded to Lawrence Fischer and Top State went to Missouri LICA. Minnesota received the Kemps Legislative Award again, as their group remains one of the most legislatively active LICA chapters in the country. Alan Clark received Entrepreneur of the Year.

And then there's the fun stuff that HAS to be worked into the schedule, even in Las Vegas with everything else going on. This year the more adventurous attendees signed up for kart racing at Fast Lap and even those who only went to watch got to experience the adventure of getting there on the bus. (You'll have to trust me on this, but it was an adventure!) First place went to Joe Giovinazzo from Petrocon, but since he's a racer in real life, it wasn't a big surprise. However, Steve Kocher came in 3rd so Illinois was well represented too.

And since Jerry can't get in front of this group without discussing membership, he had to mention a friendly competition that had been going on most of 2013. Harry Hauschild from Nebraska and Norm Kocher had been neck-and-neck most of the year in new member sponsorships. Jerry was their go-between so of course, he played it for all it was worth. By the time Jerry arrived at convention, both Norm and Harry had signed up 13 members each, ending the year in a tie. Jerry had promised a reward of \$100 to the winner, but both parties asked that the money be donated back to the scholarship fund instead. And the funds are very much appreciated as there were more applicants than ever received this year, indicating that the program continues grown in popularity and helps many LICA families with a little extra college funding.

ILICA LADIES PAGE

Top 10 Vintage Looks Which Are Trends Now

Source: www.huffingtonpost.ca
by Anne T. Donahue

1

Who: Goldie Hawn - **What:** Trench coat



The thing about trench coats is that regardless of whether they were worn in the mid-1960s or whether they're being worn now, they work. As proven by Burberry's monopoly on the market, you can pair the piece with anything from jeans and Converse to something fancy, all while looking equally as polished as Ms. Hawn, wearer of magnificent things always.

Who: Winona Ryder

What: Biker jacket

2



Meanwhile, while a trench coat dresses up an outfit, a motorcycle jacket offers a little more of an "edge." But like the trench, a leather jacket doesn't need to be sanctioned by trend gods: regardless of year, there's a time and a place to wear it, and the older yours is, the better. Pair it with traditional seasonal prints and tones like florals and pastels to keep from looking too "spring," or do the opposite and wear it with everything like Tori from "Saved By the Bell." (You have a leather jacket! You do what you want!)

3

Who: Tiffani Thiessen - **What:** Crop top

Okay, it's true: not all of us can wear crop tops. Some of us (hello) can't at all. But if you can, run. Run with them, embrace them, and tell us what it's like. (Do you feel free? We bet you feel free.) Brands want everybody in crop tops this spring, with Peter Som and Lacoste among them. And seeing the artist-formerly-known-as-Kelly-Kapowski rock one so well, are any of us surprised? Absolutely not. Bonus points if you wear one with an ankle-length floral skirt so as to uphold the '90s mandate.

4

Who: Meryl Streep
What: Oversize blazer



We all know Meryl Streep can do no wrong. So why should we or you or anybody be surprised that even once upon a time, she set the bar high in terms of personal style? This season, we can take a cue from her over-size blazer choice (as echoed by Rebecca Minkoff), and replace a "coat" with her classic choice, and one you can pick up at a thrift shop for about the price of a coffee.

5

Who: Princess Diana - **What:** Neck scarf

If anybody tries to say that scarves are over, that person is an enemy who is trying to hurt you. As evidenced by the late Princess Diana in the early 1980s, even a simple one worn alongside a necklace and sweater can give a basic outfit depth, or at least work to make a work-



6

Who: Elizabeth Taylor
What: Logo sweater

appropriate look a little more interesting. There's also no one "right" way to wear a scarf, so consider this merely one of one million choices. Just don't let winter tarnish them for you.

What's the logo, exactly? Well, it's the United States of America. But it's not like Ms. Taylor was about to don Alexander Wang, when he wasn't even alive yet. Arguably, this is a testament to the look's staying power: worn even by one of the greatest actors of the 20th century, you too can pair a sweater with pants for a "regular" or "casual" aesthetic.



7

Who: Bridget Fonda - **What:** Floral print

If we could crawl into the movie "Singles" and deliver each and every piece of Bridget Fonda's movie wardrobe to all of us, we would. (We've tried.) But that doesn't mean we can't piggyback on her cinematic and personal style and embrace florals in a way that would make even Miranda Priestly think we were groundbreaking. The good news is, you can find an easy equivalent at any Goodwill or Value Village, where they live in droves.

8

Who: Dorothy Dandridge
What: Capris



"But, capris are the worst!" Well, yes. Sometimes. But at the same time, if we can admire Dorothy Dandridge's classic '50s capri pant-with-sweater ensemble, are capris really as bad as we think? Not if you pair them with other "traditional" vintage wear. Oversized tops worn with capris will cut you in half - unless you want to trade them for cigarette pants, and in that case, go forth. Either way, there are no such things as fashion faux pas, so if you want to borrow from Ms. Dandridge, go forth.

9

Who: Brandy - **What:** Pant suit

So perhaps this is the most Gen-X interpretation of the power suit, yes. But Ruffian loved it so much you can get a brand new version this season. We leave you with that.



10

Who: Valerie Harper
What: Bright, retro prints



Prints will never, ever be "out." If they were, we'd live on the Starship Enterprise, and all of us would dress like Deanna Troy. But we don't, and we will not. Instead, we can either borrow from Valerie Harper's style by rifling through actual vintage racks, or we can look to designers like Mary Katrantzou who combine graphic & floral prints.

ILLINOIS STATEWIDE NUTRIENT REDUCTION STRATEGY

Source: <http://www.epa.state.il.us/water/nutrient/>



University of Illinois Science Assessment

The impact of excess nitrogen and phosphorus in Illinois rivers, lakes, streams and the Gulf of Mexico is a very high profile water quality issue. Under the right conditions, nutrients can cause excessive algal blooms, low oxygen and nuisance conditions that adversely impact aquatic life, drinking water and recreational uses of the water.

Nutrients can come from many sources, including:

- Fertilizers from agriculture, golf courses, and suburban lawns
- Erosion of nutrient-rich soils
- Discharges from industrial and sewage treatment plants and
- Failing onsite septic systems.
- Deposition of atmospheric nitrogen

In other words, most aspects of modern society contribute to this pollution problem. The proportion of loading to a particular waterbody from these sources varies from watershed to watershed, and includes point sources and non-point sources, in both urban and agricultural landscapes.

Illinois EPA hosted meetings in 2010 for stakeholders representing government, environmental groups, municipal and industrial wastewater dischargers, agricultural groups, academia, non-governmental organizations and consulting firms with an interest in the topic of nutrient pollution. This was the beginning of a collaborative, problem-solving process to craft a Statewide Nutrient Reduction Strategy to address excess nutrients in Illinois waters and the Gulf of Mexico.

March 2013 Strategy Development Kick-off Meeting

On March 11, 2013, Illinois EPA hosted a meeting of stakeholders to announce that development of a statewide Nutrient Reduction Strategy was beginning. Approximately 100 attendees were present, representing the agricultural community, wastewater dischargers, environmental groups, government, technical assistance providers and academia. Attendees were welcomed by Warren Goetsch, Illinois Department of Agriculture, who identified that the 2008 Gulf of Mexico Hypoxia Action Plan includes development of statewide nutrient reduction strategies by states in the Mississippi River Basin. A presentation was given by Dr. Mark David, University of Illinois, outlining a science assessment that will identify baseline nutrient loading conditions, current practices, critical watersheds, potential nutrient reductions under various scenarios, and cost estimates for implementation. Finally, Marcia Willhite, Illinois EPA, gave a presentation that summarized current Illinois programs addressing nutrient pollution and the USEPA framework for state strategies.

The University of Illinois began conducting in March 2013 a scientific assessment to support an Illinois Nutrient Reduction Strategy. This project will compile a comprehensive statewide assessment of the current conditions and practices affecting nutrient losses to Illinois waters. The assessment will identify and assess nutrient (nitrogen and phosphorus) inputs and management practices, including current cropping practices, phosphorus losses, develop nutrient balance to understand the direction of soil pools, identify and estimate point source influences and determine total nitrogen, nitrate, total phosphorus and dissolved reactive phosphorus loads leaving the state annually. A report will be developed outlining costs and associated load reductions, including a discussion of effectiveness expectation for each practice identified. The project will identify critical watersheds that will be used by nutrient strategy developers to prioritize watersheds in Illinois for implementation. The project will also include the development of scenarios for reductions that might be achieved, costs of implementing each scenario and percent of reduction achieved by each scenario. The first project report was submitted on July 1, 2013, and results will be presented at the first Policy Working Group meeting.

Nutrient Reduction Strategy Policy Working Group

The task of the Nutrient Reduction Strategy Policy Working Group will be to formulate the actions steps for the strategy document, using the results of the science assessment, to craft a strategy (action plan) that is effective and implementable. The Policy Working Group will consist of several representatives from various sectors: agriculture, government, environmental groups and wastewater technical assistance providers. The Policy Working Group will focus on the following tasks:

- Identify potential scenarios for reducing nutrient losses through existing tools/programs
- Identify implementation organization
- Identify the approach to point source reductions in watersheds with high contribution of nutrients to the Mississippi River
- Identify the approach to “accountability and verification”, especially for non-point sources
- Identify the approach to annual reporting
- Identify the approach to promoting identified BMPs in order to maximize widespread implementation throughout a priority watershed
- Identify the approach to prioritizing and targeting funding for implementation

A complete list of Policy Working Group members can be found on IEPA's website



ANNUAL NRCS / ILICA MEETING REPORT

Each spring, ILICA schedules a meeting with the Illinois NRCS office to discuss practices and programs involved in the various cost share opportunities offered to landowners through their office, the Dept. of Natural Resources, Soil & Water Conservation Districts and the Farm Service Agency.

Questions are submitted to the ILICA office from the membership prior to the meeting. Several ILICA contractors attended this year's scheduling with Ivan Dozier, Illinois State Conservationist; Ruth Book, State Engineer; Eric Gerth, ASTC over Financial Assistance Programs and Gene Barickman from the NRCS Ecological Sciences department. We appreciate everyone who took time to attend, as the contractor's and agency's perspectives are both needed for an effective dialogue. Ivan and Ruth have worked closely with ILICA for years and welcome our inquiries, providing frank and sometimes humorous responses to each and every question. Eric and Gene were also very knowledgeable about the programs and practices involved in current cost share programs and provided excellent information for our group. If you would like a complete copy of the minutes from this meeting, they are available by request. Please contact the ILICA office at (309) 446-3700 or via email at lauri@illica.net.

Since the Farm Bill has finally been past, the membership did have several questions for this meeting including how that farm bill might bring additional work to our contractors. Ivan's short answer was "yes" but, even though the Farm Bill has passed, the NRCS is still waiting for the rules, which they expect by the end of this summer. At that time Ivan thinks it will be another 6 - 8 weeks before they would finally receive the authority to fund contracts. But at least, it's in the works.

There were other questions about how the NRCS works with DNR on projects like wetland construction as well as a lengthy discussion about how the wetland redetermination process works, its appeal process and the difference between installing drainage and maintaining an existing system in compliance with certified determinations.

Changes to the CSP program were discussed although the basic premise of the program is about the same. There is a stricter criteria for eligibility with a requirement for at least 2 priority resource concerns at the time of application, which is up from one. Over 900 applications had been filed prior to the signing of the farm bill, making this the best year ever for the program. Ivan clarified the roles of the SWCD and NRCS staff at field offices, noting that as their numbers drop, teams are being developed to try and keep all their processes moving as efficiently as possible.

There was also discussion regarding mine depressions vs. farmable wetlands and prairie potholes; something that doesn't affect every county but more than just one or two around Illinois. There are ways to determine one from the other but sometimes it's not as easy as you might think. As the meeting concluded, it was apparent that the partnership ILICA enjoys with the Illinois NRCS is made even stronger from this meeting each year. We appreciate their time and I think it's safe to say they appreciate ours as well.





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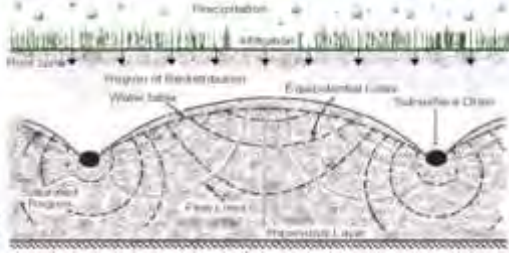


MORE WINTER LICA MEETING PHOTOS



(top, r to l) National LICA board; passing of the president's pin to Bob Clark from exiting LICA president Steve Miller, shown with Adam Zimmerman presenting the CAT pen and pencil set in photo to the right; The final heat at Fast Lap race track in Vegas; Illinois president Dave Haag waiting for the board meeting to start; (below) 1st place Joe from Petrocon, 2nd place Chris from Indiana, 3rd place Steve Kocher; and last but not least, our Captain, Jerry Biusolo!





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 soils.

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

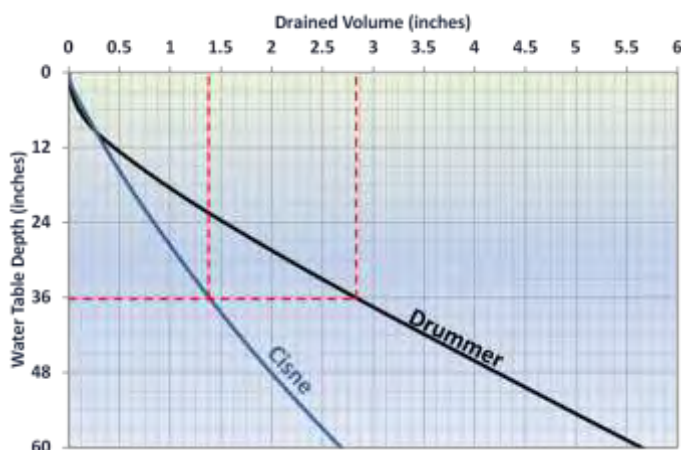


Figure 1. Relationship between drainage depth and water table drawdown in Cisne and Drummer soils.

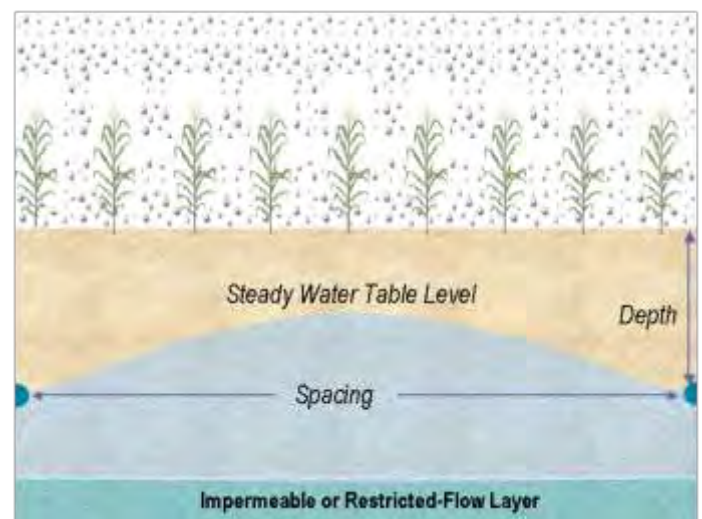


Figure 2. Scenario for steady state drainage design.

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.

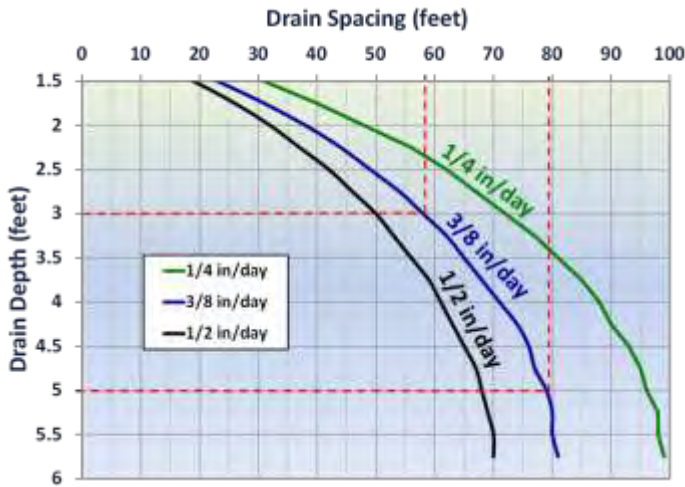


Figure 3. Relationship between depth, spacing and drainage coefficient for Flanagan soil.

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.

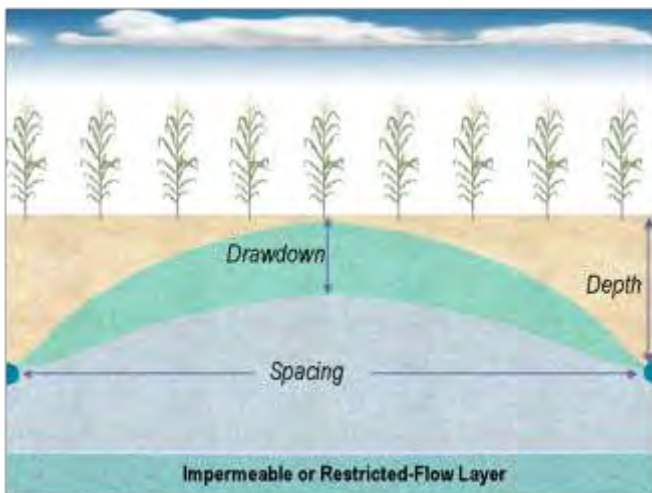


Figure 4. Scenario for transient drainage design.

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.

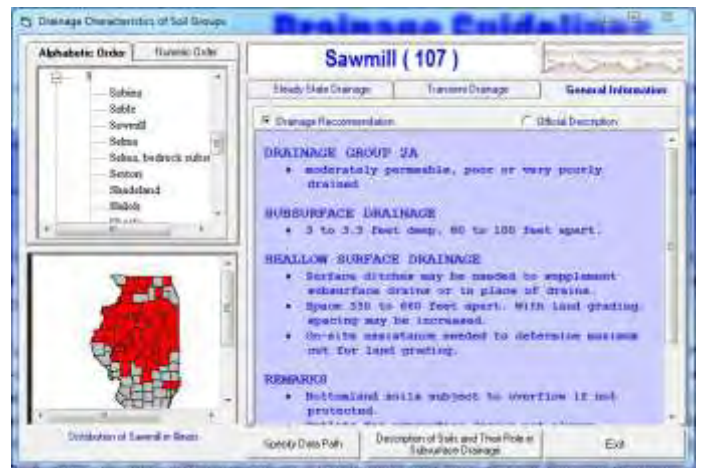


Figure 5. Interface for the General Recommendations routine.

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

CONT.

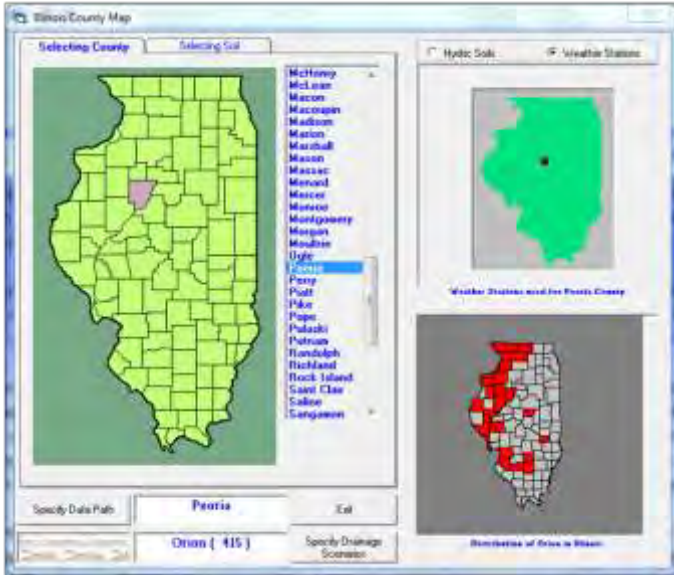


Figure 6. Interface for the County Specific Simulations routine.

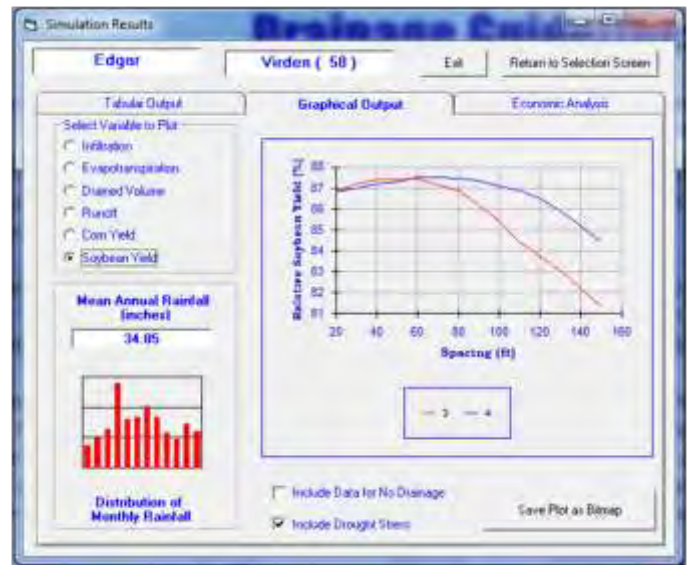


Figure 8. Simulated yield results for soybean grown on Verden soil in Edgar County.

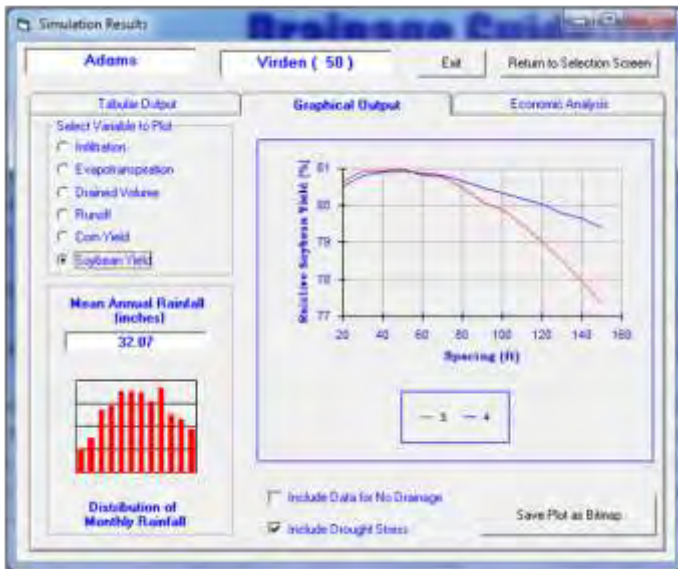


Figure 7. Simulated yield results for soybean grown on Verden soil in Adams County.

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.

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 Verden soil in Adams County. By way of contrast, for soybean grown on Verden 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.

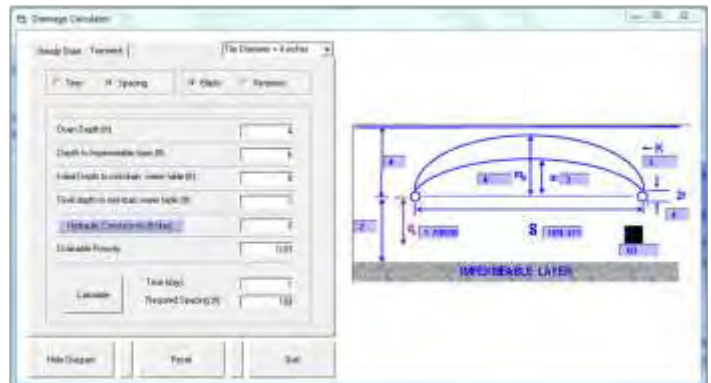


Figure 9. Interface for the Drainage Equations routine for transient drainage design.

DETERMINATION OF OPTIMUM TILE DEPTH AND

CONT.

WATER QUALITY CONSIDERA-

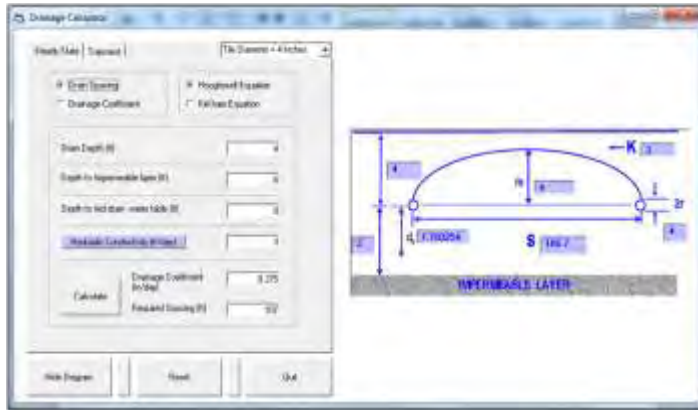


Figure 9. Interface for the Drainage Equations routine for steady state drainage design.

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. These results, and the long term effect of depth/spacing on yield, will be addressed in this column in the future.

Reprinted from Spring 2013



EPA AND ARMY CORPS OF ENGINEERS CLARIFY PROTECTION FOR NATION'S STREAMS AND WETLANDS:

EPA Press Release Date: 03/25/2014

Agriculture's Exemptions and Exclusions from Clean Water Act Expanded by Proposal

The U.S. Environmental Protection Agency (EPA) and U.S. Army Corps of Engineers (Army Corps) today jointly released a proposed rule to clarify protection under the Clean Water Act for streams and wetlands that form the foundation of the nation's water resources. The proposed rule will benefit businesses by increasing efficiency in determining coverage of the Clean Water Act. The agencies are launching a robust outreach effort over the next 90 days, holding discussions around the country and gathering input needed to shape a final rule.

Determining Clean Water Act protection for streams and wetlands became confusing and complex following Supreme Court decisions in 2001 and 2006. For nearly a decade, members of Congress, state and local officials, industry, agriculture, environmental groups, and the public asked for a rulemaking to provide clarity.

The proposed rule clarifies protection for streams and wetlands. The proposed definitions of waters will apply to all Clean Water Act programs. It does not protect any new types of waters that have not historically been covered under the Clean Water Act and is consistent with the Supreme Court's more narrow reading of Clean Water Act jurisdiction. "We are clarifying protection for the upstream waters that are absolutely vital to downstream communities," said EPA Administrator Gina McCarthy. "Clean water is essential to every single American, from families who rely on safe places to swim and healthy fish to eat, to farmers who need abundant and reliable sources of water to grow their crops, to hunters and fisher-

men who depend on healthy waters for recreation and their work, and to businesses that need a steady supply of water for operations."

"America's waters and wetlands are valuable resources that must be protected today and for future generations," said Assistant Secretary of the Army (Civil Works) Jo-Ellen Darcy. "Today's rulemaking will better protect our aquatic resources, by strengthening the consistency, predictability, and transparency of our jurisdictional determinations. The rule's clarifications will result in a better public service nationwide." The health of rivers, lakes, bays, and coastal waters depend on the streams and wetlands where they begin. Streams and wetlands provide many benefits to communities – they trap floodwaters, recharge groundwater supplies, remove pollution, and provide habitat for fish and wildlife. They are also economic drivers because of their role in fishing, hunting, agriculture, recreation, energy, and manufacturing.

About 60 percent of stream miles in the U.S. only flow seasonally or after rain, but have a considerable impact on the downstream waters. And approximately 117 million people,



one in three Americans, get drinking water from

Continued on page 21 ...

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MEMBERSHIP APPLICATION

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 (Active members are individuals engaged in the business of entering into contracts for performing work that will result in soil, land, natural resource conservation or rehabilitation, water conservation, control and prevention of soil erosion, depletion and misuse of natural resources and soil and water pollution and contamination.)
- Associate Membership - \$295 (Associate members are those businesses that manufacture or sell equipment, materials or services used by active members)
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Signature: _____

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CALENDAR OF EVENTS

Illinois

May Board Meeting
 ILICA Office - 118 E. Knoxville St - Brimfield, IL
 Saturday, May 3, 2014 - 2 pm
 Committee Meetings 10 am - 1 pm
 Lunch Provided

3rd Annual Area 6 Golf Outing
 Meadowview Golf Course - Mattoon, IL
 Friday, June 20, 2014 - 1 pm Shotgun start
 Lunch - Noon: Dinner - 6 pm

State Wide Membership Sweet with Jerry Biuso
 June 20 - 27, 2014
 Make Your Appointment Today!!

Summer Picnic & Member Meeting
 John Deere Proving Grounds - Coal Valley, IL
 Friday, June 27, 2014 - Exact Time TBA
 Equipment Demonstration & Hands-On Operation
 Member Meeting & Dinner immediately following

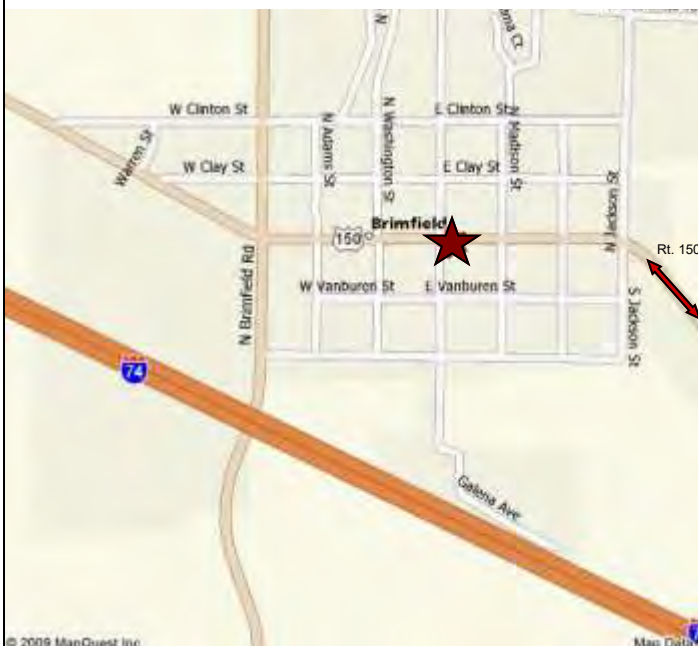
National

LICA Summer Meeting
 Indianapolis, IN
 July 2014

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May Board Meeting Location
 ILICA Office Bldg., Brimfield Illinois



The ILICA office is located in Brimfield, just off I-74 about half way between Peoria and Galesburg.

From West: Take the Route 78 exit from I-74 to Kewanee and Canton and turn North from the exit ramp. Turn right or east onto Route 150 at Akron Services grain storage facility. Follow Route 150 into Brimfield and the ILICA office is on your right between the **Brimfield Insurance Agency & Rookie's Bar & Grill** and directly across from the bank time and temperature marquee.

From East: Take the Brimfield exit from I-74 and turn North from the exit ramp. Turn left or West onto Route 150 at the stop sign. Follow Route 150 into Brimfield and the ILICA office on is your left between the **Brimfield Insurance Agency and Rookie's Bar and Grill** and directly across from the Brimfield Bank time and temperature marquee.

SAFETY FEATURE: GIVE NEW CO-WORKERS YOUR SUPPORT



Once the initial orientation to the company is over and the basic requirements of the job and the safety program have been covered, it's time to move the new employee into the work force and introduce the people he or she will be working with. Co-workers play an important role in getting the new person off to a good start.

What is a veteran employee's role when it comes to orienting a new employee?

Remember that new people are nervous to begin with-just starting a new job. They probably don't remember all the instructions they are given and aren't familiar with the new surroundings. This is often a time for information overload. So how can an experienced hand help out?

- Introduce yourself, explain your job and offer assistance.
- Encourage the new hire to ask questions if he or she is not quite sure. Remember how hard it was to admit you didn't know everything when you started a new job?
- Remember too, that the new person may be highly skilled and experienced in his or her trade, but not necessarily used to your company's ways of doing things.
- Point out locations of first aid kits, fire extinguishers, restrooms & break rooms.
- Be sure your new co-worker is wearing the right PPE, and is using it properly.
- Volunteer to serve as a mentor to the new employee, to assure that safe work procedures are understood and followed.
- If you spot this person doing something wrong, *tactfully* explain the proper procedures. It's easier to do this if a "coaching" role has been assigned or agreed-upon.
- During lunch and breaks include him/her in the group so everyone can get better acquainted.
- Resist any temptation to complain about aspects of your job that you don't like-get the new person started out on a positive note by passing on what's good about the company.
- Perhaps most importantly, lead by example with correct work habits.

Getting a new employee started off on the right foot is very important. Statistics indicate that up to 60% of all job injuries occur to new employees with less than six months experience on the job. Repeated, friendly reminders of safety procedures and work rules by a mentor can greatly reduce the chance of an accident with the new employee. Many times new employees will not think of questions until after they have worked a few days and begin to understand the job requirements more thoroughly. As a co-worker, if you make yourself available to answer questions, it shows your willingness to provide a safe workplace for everyone involved.

Remember, getting new people started on the right path can help prevent an accident or injury to everyone on the crew. Don't think that helping to develop a productive co-worker is a burden. Think of it as an investment in the future of your work group and your company. Besides-it's the way you'd like to be treated yourself!

Discussion Date: _____

Employee Participants

EPA & ARMY CORPS OF ENGINEERS CLARIFY PROTECTION

... continued from page 15

public systems that rely in part on these streams. These are important waterways for which EPA and the Army Corps is clarifying protection.



Specifically, the proposed rule clarifies that under the Clean Water Act and based on the science:

- Most seasonal and rain-dependent streams are protected.
- Wetlands near rivers and streams are protected.
- Other types of waters may have more uncertain connections with downstream water and protection will be evaluated through a case specific analysis of whether the connection is or is not significant. However, to provide more certainty, the proposal requests comment on options protecting similarly situated waters in certain geographic areas or adding to the categories of waters protected without case specific analysis.

The proposed rule preserves the Clean Water Act exemptions and exclusions for agriculture. Additionally, EPA and the Army Corps have coordinated with the U.S. Department of Agriculture (USDA) to develop an interpretive rule to ensure that 53 specific conservation practices that protect or improve water quality will not be subject to Section 404 dredged or fill

permitting requirements. The agencies will work together to implement these new exemptions and periodically review, and update USDA's Natural Resources Conservation Service conservation practice standards and activities that would qualify under the exemption. Any agriculture activity that does not result in the discharge of a pollutant to waters of the U.S. still does not require a permit.

The proposed rule also helps states and tribes – according to a study by the Environmental Law Institute, 36 states have legal limitations on their ability to fully protect waters that aren't covered by the Clean Water Act.

The proposed rule is supported by the latest peer-reviewed science, including a draft scientific assessment by EPA, which presents a review and synthesis of more than 1,000 pieces of scientific literature. The rule will not be finalized until the final version of this scientific assessment is complete. Forty years ago, two-thirds of America's lakes, rivers and coastal waters were unsafe for fishing and swimming. Because of the Clean Water Act, that number has been cut in half. However, one-third of the nation's waters still do not meet standards.

The proposed rule will be open for public comment for 90 days from publication in the Federal Register. The interpretive rule for agricultural activities is effective immediately.



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CERTIFIED FORKLIFT TRAINING

Hosted by Martin Equipment in Goodfield with lunch provided by Gallagher-Heiser Insurance Agency

Everyone is all too aware of what a brutal winter the Midwest experienced this year but it did provide time for 20 of our ILICA members and their employees to receive another safety certification through an ILICA workshop. This program requires hands on operation of a forklift so it made sense to utilize one of our generous ILICA associate supporters with the space, access and equipment availability we needed. Martin Equipment set up the classroom and AV requirements as well as the obstacle course in their parking lot for the hands on portion.



It was bitter cold of course, so our brave students bundled up, went outdoors and quickly took care of the hands-on portion of the training! Gallagher-Heiser, also a long time ILICA associate supporter, provided our sponsored lunch and appreciated the opportunity to participate in another safety presentation for our group. Our sincere thanks goes out to Jeff McCall, ("Hoss") Martin's Safety Officer for his assistance in coordinating the scheduling and logistics for this training and for all of the Martin's staff who helped set things up and made us feel so welcome!

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SAVE THE DATES !

**3rd Area 6 Golf
Outing! June 20st
Mattoon, IL**

**Summer Picnic and
Members' Meeting!
June 27th
Coal Valley, IL**



**State Wide Membership
Sweep with Jerry Biuso
June 20th - 27th**

ILICA is returning to the beautiful Meadowview Golf Course in Mattoon for the 3rd Annual Area 6 Golf Outing and we hope this one is even better than the last two.

Last year's outing brought in several more golfers than the first and we'd like to see that trend continue! Please save the date for this fun day, and stop by to see Bill Dean's new shed while you're in the neighborhood.

Have fun supporting ILICA!

Jane Deere (Kenya) has made arrangements for ILICA to enjoy an afternoon at John Deere's proving grounds in Coal Valley for an equipment demonstration and hands-on operation of their newest models for our members and guests. Exact times, maps and directions will be provided closer to the date.

The picnic & member meeting will be held Friday following the festivities and Jerry will be there for any potential contractor members our members invite along. There is a room block at the Stoney Creek Inn in Moline for those who want to enjoy the John Deere Pavilion, Rock Island Arsenal or Le Clare on Saturday morning before heading home.

That's right! Jerry Biuso is coming back to Illinois and staying a while!! Jerry has tried to get back to Illinois several times this past winter but snow ... here or there ... kept that from happening. We're pretty sure snow will not interrupt these plans though, so he's going to make this trip count. Janet will work with several area directors to show him some of the most productive agricultural land in the country. *(we're going to drag him around from jobsite to jobsite in remote rural areas of Central Illinois)* Please start thinking of contractors you know who might benefit from ILICA membership and we'll come to them. All Jerry asks for is 5 minutes of their time (and yours) at their jobsite.

We'll even provide the cold drinks!



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