

February 2017

# IGWA Newsletter

*The newsletter of the Indiana Ground Water Association (IGWA)*

IGWA Office: PO Box 160, Covington, IN 47932 • Phone: 888-443-7330 • Fax: 765-231-4430  
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## Letter from the President

Welcome to winter everyone! The daylight is short, the clothes are heavy, the weather cannot make up its mind, and as I write this the mud is deep! Although the Winter weather in Indiana can be drastically different from the Northern counties to the Southern counties one thing remains unchanged: every business is effected in some form by Winter! Please understand that I enjoy the different seasons and the accompanying activities. I enjoy skiing, hunting, and making the occasional snowman with my children; however, this forty-degree weather with rain is not quite ideal for work or play! I have to keep reminding myself that each passing day of Winter is one day closer to Spring!

I would like to extend a thank you from the IGWA to each of our members, vendors, manufacturing representatives, and participants for attending the convention in Michigan City! The most enjoyable part of the convention for me was giving away the door prizes at the evening trade show. I enjoyed being able to meet so many of the people that make the IGWA great. Handing out the door prizes was an excellent opportunity for me to put faces with names, and make connections with people on a more personal level. People are just naturally happy to receive something for free! With that being said I should also thank all who provided the many donations that were handed out as door prizes.

The board of directors held a meeting in early January. It was very clear from the discussion and planning during this meeting that 2017 will also be an exciting year for IGWA. We have the potential for three field days this year! These are excellent opportunities to earn our required continuing education units without setting foot in a classroom. The classroom experience will also present a great opportunity for continuing education at our annual meeting in November with a nationally renowned McElhiney lecturer. Please plan to attend and support your association!

In closing I would like extend a thank you to the board of directors, and especially Jennifer Alexander for the hard work that went into planning the convention! Thank you!

May the winter be safe, profitable, and warm for each of you!

Sincerely,

Rusty McGrew, McGrew Well Drilling

## IGWA 2016 Convention

Thank-you to all who attended the convention whether and attendee or an exhibitor! We had over 180 attendees this year and 50 booths exhibiting 37 different companies.

Attendees were able to receive credits needed for licensing by attending 13 different classes this year.

2018 may seem like a long way off, but the IGWA committee is busy planning our next convention. If there are exhibitors you would like to see or classes you would like to see offered, please let us know! You can email us at [ingroundwater@gmail.com](mailto:ingroundwater@gmail.com).

**For Convention Sponsors and Silent Auction Recap see page 2.**



### MAY 16, 2017

Geoprobe® will present a field day in conjunction with the IGWA. They will present two classes and demonstrate equipment as part of the instruction. Details will be on the website in March and in our April newsletter.

## TAX INFO FOR IGWA MEMBERS

Please note: A portion of your membership dues goes towards lobbying. This is not a tax deductible item.

The portion of your dues for lobby expense in 2016 was \$3.98. Please consult your tax advisor on this matter.

### INSIDE

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# IGWA 2016 Convention

## SILENT AUCTION RECAP

The scholarship auction has been our biggest fund raiser for the Joseph L. Armstrong Family in Business Scholarship. This year we raised \$2,910.00 for the fund. Thank you to all bidders for donating to this fund. The following businesses donated merchandise to the auction:

- GEFCO
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- Kokomo Pump Supply
- IGWA
- Flomatic
- Drillers Service Inc.
- Xylem
- WellMagic
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- Jennifer Alexander
- Bilfinger Water Technologies
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THANK  
YOU!

THANK  
YOU!

THANK  
YOU!

## IGWA CONVENTION SPONSORS

The Indiana Ground Water Association would like to thank our sponsors that contributed to the biennial convention. Without their sponsorships, the cost of attending the convention would be much higher. The IGWA board appreciates their commitment to host a quality convention at an affordable cost to attendees.

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## LIFETIME MEMBER AWARDS

Three members received lifetime member awards at the convention. They have served the IGWA and the water well industry for many years. This year's recipients are:



### **Randy Aufderheide, Dean Well Drilling**

Randy was a partner in Dean Well Drilling from 1979 until 2013. He took most the responsibility for service and pump installations.



### **Dan McCreadie, Kokomo Pump Supply**

After nearly 40 years, in all capacities, at Kokomo Pump & Supply Dan McCreadie has hung up his "selling shoes" and retired. It's hard for me to believe, but I met Dan back in the early 1980's when we were both territory salesmen. We are fortunate when we get to be friends with friendly competitors and it is what I love about IGWA, building those kind of relationships. Dan has now joined the ranks of our Lifetime Members and his work with IGWA will be missed, but we certainly hope to continue the friendships and see him at our functions. As a post script, I'm a little worried that he is going to have the time to hone his golf game and put a whoopin' on some of us this summer! ~ Brad White



### **Larry Wiley, Wiley Well Drilling**

Larry Wiley, the president of Wiley Well Drilling, is a second generation well driller, taking over the business that his father, James Wiley, started in 1945. Larry is a member of the Indiana Ground Water Association as well as a past president of the association and a longtime member of the National Ground Water Association and earned his Master Ground Water Contractor status. In his free time Larry enjoys spending time with his family and friends, and collecting and restoring pedal tractors. Larry is very active with his local community and church and enjoys spending the winters in Florida.

**We congratulate them on their service to the industry!**

## GROUNDWATER AWARENESS WEEK

Groundwater awareness week is March 5-11 this year. The National Groundwater Association has many products that you can utilize to make your customers aware of this week. As we in the industry know, groundwater is one of the most valuable natural resources we have. Educating the public is one of our best tools to ensure everyone understands this.

The tools can be found at:  
<http://www.ngwa.org/events-education/awareness/pages/default.aspx>.

## Time for Your Annual Water Well Checkup

National Groundwater Awareness Week • March 5-11, 2017

The National Ground Water Association recommends routine annual well maintenance checks to help ensure water quality and proper operation of the well. NGWA also recommends your well water be tested annually or anytime there is a change in taste, odor, or appearance, or anytime the system is serviced.

To learn more, visit [WellOwner.org](http://WellOwner.org)  
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# Groundwater Use in Indiana

## Overview<sup>1</sup>

### Total

Groundwater (mgd — fresh, not saline) .....	720
Percentage of total freshwater* supply for state.....	8.33%

### Public Supply

Groundwater (mgd) .....	351
Percentage of total groundwater.....	48.80%
Percentage of total public supply .....	53.50%

### Individual Household

Groundwater (mgd) .....	126
Percentage of total groundwater.....	17.50%
Percentage of total individual household supply .....	100%

### Irrigation

Groundwater (mgd) .....	98.4
Percentage of total groundwater.....	13.70%
Percentage of total irrigation.....	71.80%

### Livestock/Aquaculture

Groundwater (mgd) .....	32.8
Percentage of total groundwater.....	4.56%
Percentage of total livestock/aquaculture.....	68.70%

### Industrial, Self-Supplied

Groundwater (mgd) .....	82.2
Percentage of total groundwater.....	11.40%
Percentage of total industrial, self-supplied .....	3.72%

### Mining

Groundwater (mgd) .....	4.52
Percentage of total groundwater.....	0.63%
Percentage of total mining .....	5.12%

### Thermoelectric

Groundwater (mgd) .....	24.6
Percentage of total groundwater.....	3.42%
Percentage of total thermoelectric.....	0.46%

(mgd = million gallons per day)

\*All totals and ratios are measures of freshwater only.

<sup>1</sup> US Geological Survey, November 2014 report on 2010 water use.

<sup>2</sup> US Census Bureau 2013 American Housing Survey.

<sup>3</sup> US Census Bureau 2013 American Community Survey.

<sup>4</sup> US Geological Survey, November 2014 report on 2010 water use.

<sup>5</sup> Ibid.

<sup>6</sup> US EPA Federal Safe Drinking Water Information System Data for 2014.

<sup>7</sup> Ibid.

<sup>8</sup> Census of Agriculture 2013 Farm and Ranch Irrigation Survey.

## Groundwater's Role in Indiana's Economic Vitality

- Few states can accurately or confidentially determine how many residential wells are in place. For each region, the American Housing Survey by the U.S. Census provides regional data. Indiana is found in the Midwest, along with these other states: Ohio, Michigan, Indiana, Illinois, Wisconsin, Minnesota, North Dakota, South Dakota, Iowa, Nebraska, Kansas, and Missouri. The last American Housing Survey Census indicates this region had 3,990,000<sup>2</sup> households served by residential wells, with an average of 2.55<sup>3</sup> persons per household. The U.S. Census stopped asking citizens their source of water supply following the 1990 Census. The USGS estimates the population of self-supplied water supply users in Indiana to be 1,660,000<sup>4</sup>.
- 681 community water systems use groundwater for 2,380,000 people<sup>5</sup>
- 573 non-community, non-transient water systems use groundwater for 197,000 people<sup>6</sup>
- 2,730 non-community, transient water systems use groundwater for 359,000 people<sup>7</sup>
- 4,130 irrigation wells used serving 1,410 farms and 410,000 acres<sup>8</sup>

Reprinted from the NGWA



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A 09/2016



# Groundwater Use in the United States of America

## Total

Groundwater (mgd — fresh, not saline) ..... 76,000<sup>1</sup>  
Percentage of total freshwater supply for nation ..... 24.8%<sup>2</sup>  
• 38%<sup>3</sup> of America's population regularly depends upon groundwater for its drinking water supply  
• The U.S. bottled water industry used 5.34 billion gallons of groundwater in 2001<sup>4</sup>

## Public Supply

Groundwater (mgd) ..... 15,700  
Percentage of total groundwater ..... 20.7%  
Percentage of total public supply ..... 37.4%  
• 90,220,000 American residents served by 39,000 groundwater-supplied community water systems<sup>5</sup> having 88,000 community supply wells<sup>6</sup>  
• 17,300 non-transient, non-community water systems serving 5,280,000 people<sup>7</sup> using 17,100 non-community supply wells<sup>8</sup>  
• 81,300 transient, non-community water systems serving 10,200,000 people<sup>9</sup> using 79,800 non-community supply wells<sup>10</sup>

## Individual Household

Groundwater (mgd) ..... 3,540  
Percentage of total groundwater ..... 4.66%  
Percentage of total individual household supply ..... 98.3%  
• 34,191,000<sup>11</sup> American residents served by privately owned individual wells  
• 13,100,000<sup>12</sup> occupied American households served by privately owned individual wells

## Irrigation

Groundwater (mgd — fresh) ..... 49,500  
Percentage of total groundwater ..... 65.1%  
Percentage of total irrigation ..... 43%  
• 476,000 irrigation wells used serving 121,000 farms<sup>13</sup>

## Livestock/Aquaculture

Groundwater (mgd — fresh) ..... 3,020  
Percentage of total groundwater ..... 3.97%  
Percentage of total livestock/aquaculture ..... 26.4%

## Industrial, Self-Supplied

Groundwater (mgd — fresh) ..... 2,900  
Percentage of total groundwater ..... 3.82%  
Percentage of total industrial ..... 19.3%

## Mining

Groundwater (mgd — fresh) ..... 1,120  
Percentage of total groundwater ..... 1.47%  
Percentage of total mining ..... 49.8%

## Thermoelectric

Groundwater (mgd — fresh) ..... 587  
Percentage of total groundwater ..... 0.77%  
Percentage of total thermoelectric ..... 0.5%

## Water Prices

Estimates of the economic value of water are relatively few in number and vary greatly both within and across economic sectors. They range from as little as \$1 to \$4,500 per acre-foot<sup>14</sup> (2010 dollars). Currently available estimates from the literature suggest the following values for different uses:

- Public supply and domestic self-supply — up to \$4,500 per acre-foot
- Agriculture — \$12 to \$4,500 per acre-foot
- Manufacturing — \$14 to \$1,600 per acre-foot
- Electric power generation — \$12 to \$87 per acre-foot for cooling water at thermoelectric power plants, and \$1 to \$157 per acre-foot for hydropower
- Mining and energy resource extraction — \$40 to \$2,700 per acre-foot<sup>15</sup>.

The American Water Works Association surveyed water utilities in the United States, asking for each utility's average residential consumption and the bill at that level. For systems reporting their source water was 51% or greater groundwater, the 2014 average cost/gallon was \$0.00374<sup>16</sup>. NGWA calculates that using 2010 estimated use volumes of 15.7 bgd for public supply and the AWWA 2014 average cost/gallon, groundwater for public supply could have an annual value of \$21.4 billion.

(mgd = million gallons per day)  
(bgd = billion gallons per day)

<sup>1</sup> U.S. Geological Survey, *Estimated Use of Water in the United States, 2010*. Released 2014. All other groundwater-use data come from this source.

<sup>2</sup> *Ibid.*

<sup>3</sup> Calculated by using 2014 rural average household size of 2.61 persons (as found in the U.S. Census Bureau's American Community Survey, available from American FactFinder) multiplied by the number of occupied households using water wells in the American Housing Survey for 2013 and then adding that number to the number of residents served by groundwater-supplied community water systems.

<sup>4</sup> Drinking Water Research Foundation, May 2005.

<sup>5</sup> From U.S. Environmental Protection Agency, sdwis-fed-gpra-2015. The information is calculated for the period from 7/1/2014 to 6/30/2015.

<sup>6</sup> The number of wells serving community water systems is estimated by using 2006 EPA data (*Community Water Systems Survey*) for the average number of wells per system and multiplying that by the 2015 number of community water systems using groundwater. The number of wells per community water system ranged from 1.7 wells for the smallest systems to 5.4 wells for larger systems. The average number of wells across all system sizes was 2.1 wells.

<sup>7</sup> From U.S. Environmental Protection Agency, sdwis-fed-gpra-2015. The information is calculated for the period from 7/1/2014 to 6/30/2015.

<sup>8</sup> Assumes one well per non-community water system (and zero wells for those systems purchasing groundwater from another system).

<sup>9</sup> From U.S. Environmental Protection Agency, sdwis-fed-gpra-2015. The information is calculated for the period from 7/1/2014 to 6/30/2015.

<sup>10</sup> Assumes one well per non-community water system (and zero wells for those systems purchasing groundwater from another system).

<sup>11</sup> Calculated by using 2014 rural average household size multiplied by the number of occupied households using water wells in the American Housing Survey for 2013.

<sup>12</sup> U.S. Census, American Housing Survey, 2013.

<sup>13</sup> U.S. Census and U.S. Department of Agriculture, Farm and Ranch Irrigation Survey, 2013.

<sup>14</sup> An acre-foot is approximately 325,851 gallons.

<sup>15</sup> U.S. EPA, *The Importance of Water to the U.S. Economy*, November 2013, pp. 13-14. "The variability of the estimates reflects their dependence on a variety of factors, including differences in the methods used to derive them. The variability in the estimates also reflects the multiple elements of water that can affect its value. Because the available estimates are limited in number and highly sensitive to both context and method, they cannot easily be used to draw inferences about the value of water in other contexts." "It is important to recognize that water does not have one single value; even in the context of a single use, its value may change over time."

<sup>16</sup> February 2015 e-communication to NGWA from Kenneth Mercer, Ph.D., senior manager of Technical and Research Programs, American Water Works Association.



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## DUES REMINDER

Just a reminder that dues were due on December 1, 2016. If you have not yet paid your dues, please remit as soon as possible.

As a member you are listed on our website for customers to find and it allows you to save on registrations to IGWA events. This is the only organization representing water well drillers in the state of Indiana. It is important that your voice is represented with your fellow drillers. If you are not a member, please consider joining the IGWA.

### Indiana Ground Water Association New Member Application

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(1st person from company \$200 — Each Additional Member \$50)

Names of additional individual members @ \$50.00 each:

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The IGWA board members would like to thank the following companies for their corporate sponsorship of the association. Their help now and throughout the year helps keep costs to members down for membership and events.

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# Calendar

## March 5-11

National Groundwater Awareness Week

## April 30

Deadline for Scholarship application. For more information and the application go to [www.indianagroundwater.com](http://www.indianagroundwater.com)

## May 16

Geoprobe® class and demo

## August/September

Fall Field Day TBD

## November 2

Annual Meeting & Fall 2017 CEU class, Greenwood, IN

## November 2

DNR testing Greenwood, IN

## November 30

Dues renewal

## IGWA FAMILY IN BUSINESS SCHOLARSHIP

### Applications Due April 30th

- Applicant must be a member, immediate family of IGWA member, employee of IGWA member, or immediate family member of employee.
- Applicant must be accepted at a college, university or trade or technical school. (Student may be full- or part-time.)
- All applications must be returned before April 30. Recipients will be notified by May 15.

Scholarship application and information — [www.indianagroundwater.org](http://www.indianagroundwater.org)



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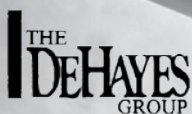
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