DELTA PLASTICS RESOURCES

<u>Delta Plastics</u> is the leading manufacturer and supplier of polytube that is used by producers to surface-irrigate Midsouth crops. They operate a manufacturing plant in Little Rock, Ark., and a location in Stuttgart, Ark. that is dedicated to their recycling operations. Thus, they are committed to a closed-loop production and recycling process.

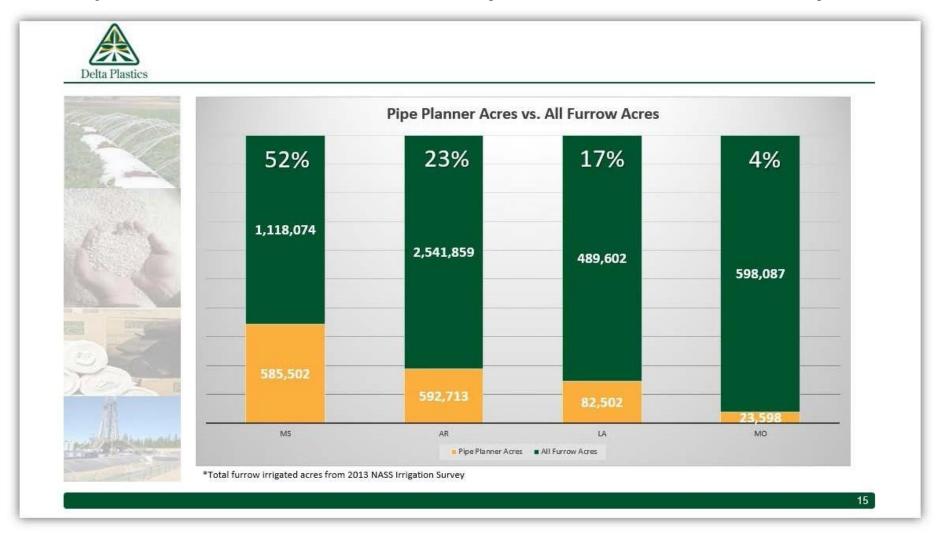
<u>The H20 Initiative</u> was started by Delta Plastics to establish a region-wide effort to reduce the amount of irrigation water applied to crops in the Delta. The staff at Delta Plastics has also devoted considerable time and effort toward the production of <u>videos</u> that provide information on various aspects of irrigation setup and processes. The <u>video on the setup and use of Pipe Planner</u> is especially helpful for producers to learn the complete setup requirements for using this tool to increase furrow irrigation efficiency.

Below is an article that provides details about the use of Pipe Planner through 2018 in the Delta.

UPDATE ON PIPE PLANNER USE TO CONSERVE IRRIGATION WATER IN THE MIDSOUTH

Most entities in the Midsouth promote three main tools (PHAUCET/Pipe Planner, soil moisture sensors, surge valves) to reduce the amount of water withdrawn from the Mississippi River Valler Alluvial Aquifer (MRVAA) to irrigate crops in the region. The following is a report on the adoption of Pipe Planner in the region over the last five years (data provided by Matt Lindsey of Delta Plastics).

Mississippi State University studies show Pipe Planner Saves \$10/acre on square or regular fields and twice that on irregular shaped fields. There is no charge for the program and farmers can create their own account at www.pipeplanner.com. Instructional information is available on the internet through www.h20initiative.com and www.h20initiative.com and www.Youtube.com (search Pipe Planner). Subscribe to receive notifications of updates.



Recent data from Delta Plastics, the proprietor of Pipe Planner (the free irrigation software), shows a slightly downward tick in acres in 2018. Does this mean irrigators are less concerned about preserving water for the next generations? Or does it mean that all parties, both public and private, must increase their efforts to educate producers that this tool should be adopted on a majority of irrigated acres to assist in the conservation of water needed to curtail the overdraft from the MRVAA?

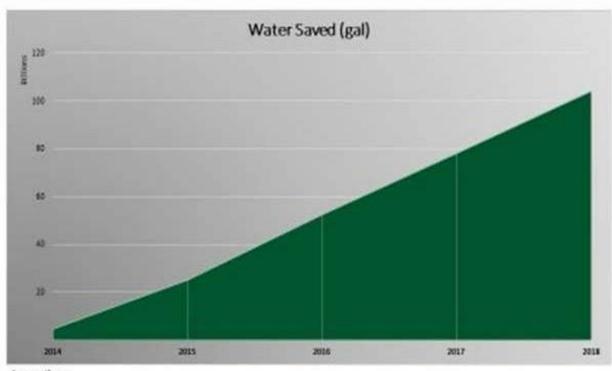


No matter the concern, use of Pipe Planner has done some good...a lot of good. But the above numbers show there is much left to be done if the amount of water withdrawn from the MRVAA is curtailed in an amount that will be required to prevent its overdraft in the coming years.



Pipe Planner by the numbers





Assumptions:

Example, annual water savings attributable to Pipe Planner use for 2014; 449,248 gallons irrigation/acre x 0.2 (irrigation savings) = 89,850 gallons irrigation water saved per acre. 53,373 acres x 89,850 gallons saved/acre = 4,795,564,050 gallons saved in 2014.

^{*}Weighted-mean irrigation use for rice, soybean, com, and cotton = 4,200 m³/ha = 449,248 gallons irrigation water per acre (Massey et al., 2017).

*Average irrigation savings associated with Pipe Planner = 20% (Krutz and Roach, 2016).