

**Rain** and more **rain**, how are we going to keep Water Hemp out of our soybean fields?



1. Don't plant into a scenario as depicted above, applying a burn down is your best option, Parazone or Liberty are good management tools. 2-4-D works on small water hemp, but you will have to wait 7 days to plant. Tillage is an option, however if the water hemp is 6 to 12 inches tall and you don't totally bury them, plants laying on the surface will re-root and your facilitating problems as the summer progress.
2. Utilize pre-emergence herbicides twice in your weed control management plan. The first application at pre-emerge or early post and the second 21 to 30 days later. **Do everything possible to never let water hemp emerge.**
3. Don't rely on the following post emergence chemicals to control water hemp that is already up. Cobra, Flexstar, Ultra Blazer, if the water hemp is PPO resistant you could **triple** the recommended rate and still not have adequate control. In Illinois 70% of water hemp samples submitted for resistance screening in 2014 had overcome PPO inhibitors. Note the date of 2014, its know 2017 and resistance to PPO's continues to grow.
4. Use the full rate of Liberty or Xtend, spray weeds 3 inches or less and follow label instructions regarding gallons of spray solution per acre to obtain adequate coverage. Liberty or Xtend will become as ineffective as Roundup if we misuse these products.

**Do you have enough Nitrogen left to maximize economical yields?**

Took some Nitrate samples last week and results were on my email yesterday. Nitrate sampling is not perfect, but it's a tool to determine if you may need additional N.

Below are the results, the results make sense in regards to the amount of N applied and soil type.

Scale -11 PPM or lower, good chance corn will respond to side dress N  
11- 21 PPM corn plants may respond to side dress N  
21 PPM or above no additional N needed

## Nitrate Sample Results

10 PPM Clay/loam applied 100 units actual N,

80 PPM Clay/loam toolbar was working incorrectly applied 280 units of N,

21 PPM loamy ground, 180 units with N-Serve.

41 PPM gumbo, 180 units with N- Serve

Going to take some more Nitrate samples this week, curious to see the results from sandy soils.

## St. Clair Agronomy Alert 5-24-17

Sent out information already today regarding Water Hemp control and some data on nitrate sampling, apologize for this additional e-mail, but it may be important if you are raising wheat.

### Army Worms in Wheat

Stopped in to look at a field of wheat that had been sprayed with fungicide for striped rust about 3 weeks ago. Immediately started seeing Army worms up on the heads, looked down on the ground and could easily see a dozen down by my feet. It is only a couple weeks until wheat harvest, however if the Army worms feed on the flag leaf and possibly start clipping heads it will cost us yield. Understand that everyone is trying to get beans planted, spray and possibly still re-plant some corn, but if you have time please take a quick look at your wheat fields.

Army Worms will move from wheat fields and start feeding in planted corn fields.

