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Weather summary:

August 2017

Temperatures and precipitation were below the long-term average in Illinois in August. Mean streamflow statewide was above the median for the month. Shallow groundwater levels were above the long-term average depths.

Air temperatures averaged 70.5 degrees in August, 3.1 degrees below the long-term average (Figure 1). The southeastern and southwestern crop reporting districts (CRDs) had the highest temperatures, averaging 73.0 degrees. The lowest regional temperature was 67.8 degrees, reported from the northwestern CRD.

Precipitation averaged 2.33 inches, 1.26 inches below the long-term average (Figure 1). The western district had the highest average with 3.47 inches. The driest CRD for the month was the northwest, which had an average of 1.76 inches for the month.

Soil moisture declined at depths from 2 to 59 inches. On August 31, moisture levels averaged 0.19 water fraction by volume (wfv) at 2 inches, 0.20 wfv at 4 inches, 0.21 wfv at 8 inches, 0.29 wfv at 20 inches, 0.39 wfv at 39 inches, and 0.39 wfv at 59 inches.

Personnel

- Michelle Stewart**
Owner & President
- John Stewart**
Owner & Project Specialist
- Greg Firrantello**
Dept. of Agronomy CCA/
Manager
- Jason Hill**
Operations Manager
- Billie Marko**
Monitoring and Reporting

New Public Outreach

August is here and the weather should usually cooperate with field operations. We can have an inch of rain this time of year and be back in the field within a day or two with this kind of summer heat.

The PR is almost done for summer season. A few questions may pop up that we would address from time to time. Most neighbors are familiar with us. We are always doing PR weeks ahead of when the fields actually get spread. Some neighbors are nice and some are indifferent. Some are tired of the notifications.

We need and strongly encourage and invite all regulatory and industry leaders to help out with biosolids land application PR by educating and promoting biosolids recycling.

County	
Will-2	
Kendall-0	
LaSalle-0	
Grundy-0	
Cook-0	



Odor Minimization

Biosolids application methods such as immediate incorporation and injection can effectively reduce odor emissions. Other best management practices such as temperatures, weather conditions, and communicating spreading times and locations with neighbors can significantly reduce odor complaints.

Notes

August is known as summer spreading time. We wait for the wheat to harvest and the straw to be baled.

August fields to spread are usually past the risk to double cropping. We stay in close contact with our farmers to convince them biosolids are very beneficial.

Some soil Sampling and PR still occurring.



Communication with Government Officials

Stewart Spreading will continue their policy of contacting all officials who we feel we should have close working relationships with. Those notified include law enforcement, health and highway departments, county, township and city officials and IEPA officials. Authorities appreciate good communication so they are not surprised when the calls do come in. Proactive is critical for success. We also encourage common sense rulings for all practical purposes.

LASMA VOLUMES APPLIED AUGUST 2017

<u>FIELD</u>	<u>ACRES</u>	<u>WET TONS</u>
CO Dettmering 1	200	5692.29
WL Domagalla 20	80	399.12
WL Dettmering 11	14	601.18
WL Dettmering 12	67	2562.65
CO Dettmering 3	77	1610.39
WL Schoenbeck 7	148	5475.49
WL Heldt 7	76	1522.70
WL Heldt 9	40	1551.26
KE Moe 8	134	1959.99
KE Moe 1C	23	1049.93
KE Moe 1	96	2197.07
KE Moe 7	67	1040.43
KE Moe 5	42	1583.59
KE Moe 9	81	855.50
KE Moe 10	15	561.35

Training

In the month of August, we continued to do tool box talks with our drivers and operators. Additionally, we trained two new employees in all facets of safety for our operation.

Agronomy Corner

During August, wheat harvest is well under way. Farmers are reporting less acres than usual due to wet fall and winter kill.

Throw in a poor market and it is a perfect storm for low wheat acres available. Summer wheat is huge for summer spreading.

Wheat field permitting is almost done. Wet weather during harvest is not normal, but we have had wet spells in the past that can delay wheat harvest.

Some farmers cannot resist the temptation to double crop beans therefore giving up on the biosolids for summer. Timing is important.

Summer spreading has some of its own challenging times of year to apply biosolids even if the weather cooperates.

It becomes a race against the weather and the double crop planters.