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Weather summary:

November 2016

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

Air temperatures averaged 48.0 degrees in November, 5.5 degrees above the long-term average (Figure 1). The northwest crop reporting district (CRD) had the lowest average temperature with 46.0 degrees. The southwest and south-east CRDs tied for the highest temperatures with 50.0 degrees.

Precipitation averaged 2.42 inches, 1.05 inches below the long-term average. The east- southeast CRD averaged 2.92 inches, the highest for the month. The driest district was the west CRD with 1.70 inches.

Soil moisture increased during the month to an end-of-the-month average of 0.37 water fraction by volume (wfv) at a depth of 2 inches, 0.36 wfv at 4 inches, 0.36 at 8 inches, and 0.39 wfv at 20 inches. Moisture levels remained high at 39 and 59 inches with average values of 0.43 and 0.41 wfv, respectively, on November 30.

Personnel

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

New Public Outreach

November was a busy month for the Agronomy department because much of the PR needed to be renewed.

In general we are always doing PR weeks ahead of when the fields are actually spread.

The majority of the residents appreciate the communication. Some have questions. Others already know what we do. We answer questions and provide information as best we can for the community neighbors. We invite all industry leaders to help out with biosolids PR.

County	
Will—25	
Kendall—4	
La Salle—0	
Grundy—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

Fall hauling season is in full gear and the pressure is mounting. The available daylight hours to work are getting fewer.

A wet October and shorter work days are a good reason to be efficient and productive in November.

Taking advantage of every hour is extremely important this time of year.

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 /CALSMA VOLUMES APPLIED November 2016

<u>Field</u>	<u>Acres</u>	<u>Wet tons</u>
WL Nugent 13	80	2557.10
WL Ray Nugent 1	115	450.81
WL Nugent 22	80	2882.58
KE Stewart 2	180	6132.47
KE Stewart 4	104	3082.94
KE Moe 9	81	2850.85
KE Moe 7	67	1350.34
KE Moe 8	134	1595.98
LS Erickson 2	41	1288.39
LS Jensen 1	95	3002.29
LS Firrantello 2	65	2600.98
LS Stewart 3	190	5780.37

Safety Meetings

Three new employees went through our two day classroom On Boarding session. Included was the annual safety training on a variety of subjects as well as thorough instruction and several presentations about company safety philosophy, policies and procedures.

Agronomy Corner

November appears to be finally getting dry. We have a chance to work. It is getting busy! Big fields are available for spreading.

Fall hauling is our busiest time of year. Every dry day counts in order to accomplish our goals.

The fall weather is usually a mix of dry and wet conditions. We keep a close eye on fields each and every day.

We can now say October was wet and slow. November dryness should help improve soil conditions and work days.

