

## PROGRAM INFORMATION

**EQIP, AWEP, CSP, WHIP, WRP, & MANY MORE:**  
APPLICATIONS FOR 2012 FUNDS CAN BE TAKEN ANYTIME AT YOUR LOCAL NRCS OFFICE. APPLICATIONS MUST BE APPROVED PRIOR TO STARTING ANY INSTALLATION WORK.

**NSWCP:** NEW MONEY COMES JULY 1<sup>ST</sup>. APPLICATIONS FOR COST-SHARE CAN BE TAKEN AT YOUR LOCAL NRCS OFFICE. APPLICATIONS MUST BE APPROVED PRIOR TO STARTING ANY INSTALLATION WORK.

**ENERGY EFFICIENCY GRANT:** THIS GRANT PROGRAM IS AN OPPORTUNITY TO RECEIVE COST-SHARE ASSISTANCE FOR SUB-SURFACE DRIP SYSTEMS, PIVOTS, UNDERGROUND PIPE, WELL UPGRADES, MOTORS, BRIDGES, ETC. FOR 2011 DOLLARS, APPLICATIONS **MUST BE COMPLETE AND IN THE KEARNEY OFFICE BY JUNE 15<sup>TH</sup>**. IT TAKES A WEEK OR TWO TO COMPLETE AN APPLICATION. SO SIGN UP SOON. FOR MORE INFORMATION CONTACT KELLEY MESSENGER WITH RURAL DEVELOPMENT AT THE KEARNEY USDA SERVICE CENTER OR AT 308-237-3118, EXT. 4.

## CALENDAR OF EVENTS

- MAY 30: MEMORIAL DAY – GOV'T OFFICES CLOSED
- JUNE 6: CNPPID BOARD OF DIRECTORS MEETING 9 AM
- JUNE 7: TBNRD BOARD MEETING 7:30 PM (DATE CHANGE)
- JUNE 7: CNPPID IRRIGATION RUN SCHEDULE STARTS
- NO-TILL WHIRLWIND EXPOS: FOR INFO, GOTO [WWW.NOTILL.ORG](http://WWW.NOTILL.ORG)
- JUNE 14: NEAR WALLACE, NE
- JUNE 16: NEAR MARYSVILLE, KS

### Survival of Flooded Corn or Soybeans

Flooded crops and saturated soils. How long can corn and soybeans survive? Below is some potential survival information at various flooding/saturated conditions.

- \* Small soybeans not completely submerged will survive a long time in standing water.
- \* Small soybeans completely submerged can survive up to a week when air temps are below 90 degrees F.
- \* Small soybeans with saturated soils, the development diseases like Phytophthora and Pythium may occur.
- \* Soybeans with 1" of water on surface at V4 and R2 for 2, 4, 7, and 14 days (Univ. of Arkansas). Variety differences evident (all were determinates); R2 flooding resulted in greater losses than at V4. Yields reduced between 0.8 and 1.9 bu/acre per day of flooding at V4 and from 1.5 to 2.3 bu/acre per day of flooding at R2.
- \* Germinating corn, there are genetic differences in hybrids that exist for responses to flooding.
- \* Corn prior to 6-leaf under 6" of water with air temps less than 77 degrees F will survive for 4 days. Longer flooding results in lower yields especially with lower N levels.
- \* Corn prior to 6-leaf under 6" of water with air temps greater than 77 degrees F may not survive more than 24 hours.
- \* Corn prior to 6-leaf with saturated cold soils will get seed rots, seedling blights, various other pathogens, and crazy top.
- \*\*\*\*\* This information is compiled by various sources and comes from a chart in the May 20, 2005 issue of UNL CropWatch.

## ACROSS THE TRI-BASIN NRD

### Irrigation Records to be kept in 2011 for CSP, EQIP, and CNPPID-AWEP contract holders!!!:

I would like to remind everyone who has received or is receiving financial assistance for irrigation practices of irrigation recordkeeping for crop year 2011. **These records must be submitted to your local NRCS office at the end of the irrigation season.** Irrigation records to be kept are Soil Moisture Readings, Crop ET, Applied Water Amounts, Flow Meter Readings and Rainfall during the cropping season. Additional documentation may be required depending upon which program you are receiving financial assistance from. Crop Consultant forms or any other forms are acceptable provided ALL INFORMATION is recorded.

**CSP producers:** The WQT04-Regional Weather Networks for Irrigation Scheduling enhancement sheets have been provided to appropriate CSP participants. This sheet lists the documentation requirements. Planning Sheet 17's and NE-ENG-80's will be sent in the near future to keep these records.

**EQIP producers:** NE-ENG-80 forms will be sent to EQIP producers in the near future to keep these records.

**CNPPID AWEP producers:** In the near future, CNPPID will be sending out a different format for keeping these records.

Monitoring soil moisture and other available tools can play a huge role in total water applied for the year.

If you have any questions, contact your local NRCS office.

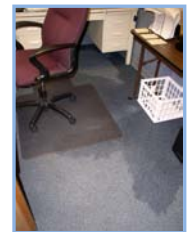
### Stage of Growth:

**Corn (Planted to V2-2 leaf stage):** Average daily water use from May 16-May 22 was 0.00"-0.01".

**Soybeans (Not planted to VC-Cotyledon stage):** Average daily water use from May 16-May 22 was 0.00"-0.01".

### Irrigation:

I installed some soil moisture sensors across the NRD prior to May 24<sup>th</sup> and there was moisture through the entire profile. Not sure who all ran pivots early but that could have contributed to some of this moisture. The recent rains have definitely placed us at full soil moisture. However, my office didn't reach full moisture levels.



**May 16-May 22 (6 of 14 NAWMN sites reporting):** average weekly rainfall was 0.82" (range 0.45" to 1.11") and average weekly ET for corn was 0.08" and for soybeans was 0.08".

Lake McConaughy is at 95.3% capacity versus 72.4% a year ago. Inflows to Lake McConaughy are at 6170 cfs versus 3247 cfs a year ago. Flows on the South Platte River @ North Platte are at 537 cfs versus 2017 cfs a year ago.

### Rainfall:

Rainfall amounts come from NeRAIN which can be found at website <http://dnrdata.dnr.ne.gov/NeRAIN/index.asp?&>.

Location:	May 12 – May 25	May 1 – May 25
Arapahoe 6.9 mi. NW:	4.12	4.12
Bertrand 6.1 mi. SE:	NA	NA
Funk 12.5 mi. N:	6.74	6.74
Wilcox 0.3 mi. SW:	2.82	2.82
Minden 0.855 mi. W:	NA	NA

## NAWMDN CROP ET INFORMATION

Additional Atmometer sites and Weather Station Data can be found at websites listed under "ET Information Sites" below.

7 Days = May 9-May 15    7 days = May 16-May 22

- Atmometer Station: Arapahoe 7 Northwest (#1)  
**Evaporation:**    Week #1 = NA inches    Week #2 = 0.80 inches
- Atmometer Station: Elwood 1 North (#2)  
**Evaporation:**    Week #1 = NA inches    Week #2 = 0.70 inches
- Atmometer Station: Bertrand 4 Southwest (#3)  
**Evaporation:**    Week #1 = NA inches    Week #2 = 0.70 inches
- Atmometer Station: Bertrand 6 Northeast (#11)  
**Evaporation:**    Week #1 = NA inches    Week #2 = 0.90 inches
- Atmometer Station: Holdrege 5 Southeast (#12)  
**Evaporation:**    Week #1 = NA inches    Week #2 = 0.70 inches
- Atmometer Station: Funk 7 Northeast (#13)  
**Evaporation:**    Week #1 = NA inches    Week #2 = NA inches
- Atmometer Station: Minden 11 Southeast (#6)  
**Evaporation:**    Week #1 = NA inches    Week #2 = NA inches
- Atmometer Station: Minden 5 North (#7)  
**Evaporation:**    Week #1 = NA inches    Week #2 = NA inches

Inches of Crop Water Use (ET) = Evaporation x Kc

Crop Coefficients (Kc)			
Corn	Kc	Soybeans	Kc
Stage	Kc	Stage	Kc
2 leaf	0.10	Cotyledon (VC)	0.10
4 leaf	0.18	1st Node (V1)	0.20
6 leaf	0.35	2nd Node (V2)	0.40
8 leaf	0.51	3rd Node (V3)	0.60
10 leaf	0.69	Beg. Bloom (R1)	0.90
12 leaf	0.88	Full Bloom (R2)	1.00
14 leaf	1.01	Beg. Pod (R3)	1.10
16 leaf	1.10	Full Pod (R4)	1.10
Silk - Beg. Dent	1.10	Beg. Seed (R5)	1.10
¼ Milk Line	1.04	Full Seed (R6)	1.10
Full Dent (½ Milk)	0.98	Yellow Leaf (R6.5)	1.00
¾ Milk Line	0.79	Beg. Mat. (R7)	0.90
Black Layer	0.60	Full Mat. (R8)	0.20
Full Maturity	0.10	Mature	0.10

### ET Information Sites

- NAWMDN Sites:  
[www.cnppid.com/ET\\_Map\\_location\\_page.htm](http://www.cnppid.com/ET_Map_location_page.htm)  
[elkhorn.unl.edu/ETGage/](http://elkhorn.unl.edu/ETGage/)  
 Water Use Hotline: dial 1-800-993-2507  
 Central Irrigation District: [www.cnppid.com](http://www.cnppid.com)

### Websites of Interest

- NRCS Nebraska [www.ne.nrcs.usda.gov](http://www.ne.nrcs.usda.gov)
- Central Irrigation District [www.cnppid.com](http://www.cnppid.com)
- TBNRD Home Page [tribasinprd.org](http://tribasinprd.org)
- Farm Service Agency [www.fsa.usda.gov](http://www.fsa.usda.gov)
- UNL Cropwatch [cropwatch.unl.edu](http://cropwatch.unl.edu)
- UNL Extension [www.extension.unl.edu/home](http://www.extension.unl.edu/home)
- UNL Water [extension-water.unl.edu](http://extension-water.unl.edu)
- K-State SDI Website [www.ksre.ksu.edu/sdi](http://www.ksre.ksu.edu/sdi)
- No-till On The Plains [www.notill.org](http://www.notill.org)
- No-till Notes [www.npnrd.org/notill.htm](http://www.npnrd.org/notill.htm)



**Pay tribute to those who paid the price of freedom  
 so you can live the life of freedom.  
 A SALUTE TO ALL WHO PAID THE PRICE!**

*"We sleep soundly in our beds because rough men stand ready in the night to visit violence on those who would do us harm."*  
 - George Orwell

\*\*\* If you wish to receive this newsletter via e-mail, or have any questions, comments or ideas, feel free to contact Curtis Scheele at the NRCS office in Holdrege or you can email him at [curtis.scheele@ne.usda.gov](mailto:curtis.scheele@ne.usda.gov). \*\*\*

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