

PROGRAM INFORMATION

EQIP, WHIP, WRP, CREP, & CONTINUOUS CRP:

APPLICATIONS FOR FUNDING ASSISTANCE AND/OR ANNUAL PAYMENTS CAN BE TAKEN ANYTIME AT YOUR LOCAL USDA SERVICE CENTER.

NSWCP: APPLICATIONS FOR COST-SHARE CAN BE TAKEN ANYTIME AT YOUR LOCAL NRCS OFFICE. **APPLICATIONS MUST BE SIGNED BY THE OWNER AND COMPLETED TWO WEEKS PRIOR TO THE TBNRD BOARD MEETINGS (SECOND TUESDAY'S OF EACH MONTH).** FLOW METER AND NON-IRRIGATION APPLICATIONS WILL BE REVIEWED MONTHLY. SEPTEMBER WILL BE WHEN THE FIRST ROUND OF IRRIGATION APPLICATIONS WILL BE REVIEWED FOR APPROVAL.

ENERGY EFFICIENCY GRANT: APPLICATION DEADLINE IS JULY 31, 2009 FOR IRRIGATION IMPROVEMENT PROJECTS. CONTACT KELLEY MESSENGER WITH RURAL DEVELOPMENT AT 308-237-3118, EXT. 4.

CALENDAR OF EVENTS

- JULY 3: INDEPENDENCE DAY HOLIDAY – GOV'T OFFICES CLOSED
- JULY 6: CNPPID BOARD OF DIRECTORS MEETING, 9 AM
- JULY 7: CNPPID 4 2-WEEK RUN SCHEDULE STARTS
- JULY 14: TBNRD BOARD MEETING, 1:30 PM
- JULY 18-23: KEARNEY COUNTY FAIR
- JULY 25-30: PHELPS COUNTY FAIR
- JULY 28-29: "A TALE OF TWO RIVERS" TOUR. FOR MORE INFO, CONTACT DAVE FORD AT 888-580-5299 OR DFORD@CNPPID.COM. MORE INFO ON RIGHT SIDE OF THIS PAGE.
- JULY 29-AUG 1: GOSPER COUNTY FAIR
- AUG 4: 20 YEAR SDI TECHNOLOGY FIELD DAY @ COLBY, KS. FOR MORE INFO, GO TO [HTTP://WWW.OZNET.KSU.EDU/SDI/EVENTS/SDIEVENT.HTM](http://www.oznet.ksu.edu/sdi/events/sdievent.htm)

2009 NAWMDN Part 2: Example

In the last issue, you were introduced to the 2009 NAWMDN. This is another tool one can use in your Irrigation Water Management program to determine ET or Crop Water Use. The following is an example of how to use this tool.

Step 1: Go to one of two websites found on page two of this newsletter. Select an atmometer station nearest your field and determine the amount of reference ET (Etr) that has taken place. In our example, let's say the reference ET was 1.8 inches for the week.

Step 2: Determine your crop stage in order to determine your crop coefficient (Kc). In our example, corn is at 14 leaf, so the Kc equals 1.01. See chart on page two for crop stage coefficients.

Step 3: Calculate ET or Crop Water Use. Simply multiply reference ET and the crop coefficient. $1.80 * 1.01 = 1.818$ inches was used by your corn for the respective week.

Step 4 (optional): You can calculate your average daily ET for the week. 1.818 divided by 7 days = 0.26 inches per day of crop water use. NOTE: Pay attention to days as some weekly readings may be over an 8 day or 6 day stretch.

If you have any questions about IWM or need assistance getting started, call Curtis Scheele at 308-995-6121, Ext. 3.

ACROSS THE TRI-BASIN NRD

Changes and Tour Information!!!:

- The Tri-Basin NRD office now resides at its new location, the corner of 18th and Burlington Streets in Holdrege. Now being the second business north of the NRCS/FSA office, no longer will producers need to travel across town to get from one office to the other. Outside of a new mailing address, everything else remains the same. The following is their new mailing address:

**Tri-Basin Natural Resources District
1723 North Burlington Street
Holdrege, NE 68949**

- A 13th site has been added to the 2009 Nebraska Agricultural Water Management Demonstration Network (NAWMDN). The additional site is located roughly 3 miles northwest of Bertrand. See map on page #2.
- "A Tale of Two Rivers" tour. The main topics of this two day tour are Platte and Republican River water resources and issues. Cost of the tour is \$125.00 per person due July 18th. Highlights include Lake McConaughy, CNPPID's facilities, Great Platte River Road Archway, Harlan County Reservoir, Bostwick and Frenchman-Cambridge Districts, Red Willow Reservoir, and the UP Railroads Golden Spike. See dates and contact info under Calendar of Events on this page.

Stage of Growth:

Corn (V8-8 leaf to V16-16 leaf stage): V15 is the beginning of the most crucial period of plant development in terms of seed yield. This crucial period continues until blister stage.

Average daily water use from June 22-June 28 was 0.14"-0.28".

Soybeans (V3-3rd Node stage to R1-Beg. Bloom stage): R1 is determined by having one open flower at any node on the main stem. Vertical root growth increases sharply at R1. Secondary roots and root hairs within the top 9" of the surface also proliferate after R1.

Average daily water use from June 22-June 28 was 0.14"-0.22".

Irrigation:

Irrigation is underway on corn. The spring rains were wonderful and the sun and heat units are now doing well. There are still fields of corn with good soil moisture that have not been irrigated yet. Monitoring soil moisture can save irrigation costs in the end. **From June 22-June 28 (12 NAWMDN sites), the average weekly rainfall was 0.96" and average weekly ET for corn was 1.53" and beans was 1.19".**

Lake McConaughy is at 54.2% capacity versus 45.2% a year ago. Inflows to Lake McConaughy are at 1205 cfs versus 408 cfs a year ago. Flows on the South Platte River @ North Platte are at NA cfs versus 155 cfs a year ago.

Rainfall:

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

<u>Location:</u>	<u>June 18 – July 1</u>	<u>May 1 – July 1</u>
Arapahoe 6.9 mi. NW:	0.92"	9.08"
Bertrand 6.1 mi. SE:	0.96"	6.53"
Funk 12.5 mi. N:	2.62"	9.98"
Wilcox 0.3 mi. SW:	1.39"	9.34"
Minden 4.4 mi. NW:	2.07"	7.40"

NAWMDN CROP ET INFORMATION

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

7 Days=June 15-June 21 7 days=June 22-June 28

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

- Atmometer Station: Arapahoe 7 Northwest (#5)
Evaporation: Week #1 = 1.30 inches Week #2 = 2.00 inches
- Atmometer Station: Elwood 1 East (#6)
Evaporation: Week #1 = 1.30 inches Week #2 = 1.70 inches
- Atmometer Station: Bertrand 4 Southwest (#7)
Evaporation: Week #1 = 1.30 inches Week #2 = 1.80 inches
- Atmometer Station: To Be Added (#12)
Evaporation: Week #1 = 1.10 inches Week #2 = 1.60 inches
- Atmometer Station: Holdrege 5 Southeast (#9)
Evaporation: Week #1 = 1.30 inches Week #2 = 1.80 inches
- Atmometer Station: Funk 6 Northeast (#8)
Evaporation: Week #1 = 1.10 inches Week #2 = 1.80 inches
- Atmometer Station: Minden 11 Southeast (#2)
Evaporation: Week #1 = 1.30 inches Week #2 = 1.80 inches
- Atmometer Station: Minden 5 North (#3)
Evaporation: Week #1 = 1.20 inches Week #2 = 1.60 inches

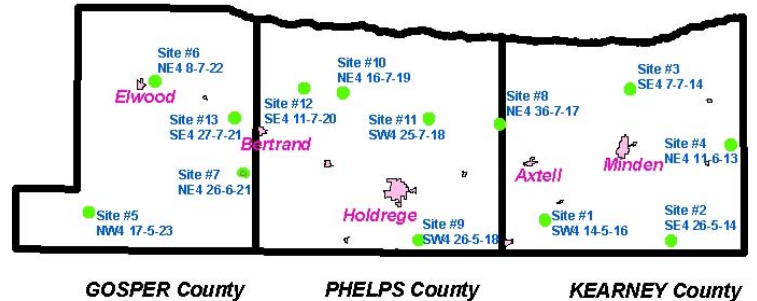
Corn		Soybeans	
Stage	Kc	Stage	Kc
2 leaf	0.10	Cotyledon (VC)	0.10
4 leaf	0.18	1st Node (V1)	0.20
6 leaf	0.35	2nd Node (V2)	0.40
8 leaf	0.51	3rd Node (V3)	0.60
10 leaf	0.69	Beg. Bloom (R1)	0.90
12 leaf	0.88	Full Bloom (R2)	1.00
14 leaf	1.01	Beg. Pod (R3)	1.10
16 leaf	1.10	Full Pod (R4)	1.10
Silk, Bl., Dough	1.10	Beg. Seed (R5)	1.10
Beg. Dent	1.10	Full Seed (R6)	1.10
Full Dent	0.98	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
elkhorn.unl.edu/ETGage/
- Water Use Hotline – dial 1-800-993-2507
- Central Irrigation District: www.cnppid.com
- UNL Cropwatch – cropwatch.unl.edu/weather/gdd-et.html

Websites of Interest

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



2009 NAWMDN Sites

A torn jacket is soon mended, but hard words bruise the heart of a child.

- Longfellow

*** 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. ***

USDA-NRCS
 1609 Burlington Street
 PO Box 798
 Holdrege, NE 68949-0798
 308-995-6121, Ext. 3

USDA-NRCS
 309 Smith Street
 PO Box 41
 Elwood, NE 68937-0041
 308-785-3307, Ext. 3

USDA-NRCS
 1005 South Brown Street
 Minden, NE 68959-2601
 308-832-1895, Ext. 3

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