

PROGRAM INFORMATION

CSP: THE CSP CONTINUOUS SIGNUP IS UNDERWAY. APPLICATION CUTOFF FOR RANKING IS **SEPTEMBER 30TH**. CONTACT YOUR LOCAL NRCS OFFICE.

EQIP, AWEP, WHIP, WRP, CREP, & CONT. CRP: APPLICATIONS FOR FUNDING ASSISTANCE AND/OR ANNUAL PAYMENTS CAN BE TAKEN ANYTIME AT YOUR LOCAL USDA SERVICE CENTER. -- AWEP APPLICATIONS ARE CURRENTLY BEING APPROVED AND CONTRACTS WRITTEN.

NSWCP: APPLICATIONS FOR COST-SHARE ASSISTANCE CAN BE TAKEN ANYTIME AT YOUR LOCAL NRCS OFFICE.

CALENDAR OF EVENTS

- OCT 5:** CNPPID BOARD OF DIRECTORS MEETING, 9 AM
- OCT 13:** TBNRD BOARD MEETING, 1:30 PM
- SEPT 15-17:** HUSKER HARVEST DAYS
FOR MORE INFO, GOTO WWW.HUSKERHARVESTDAYS.COM
- SEPT 22:** TRI-BASIN NRD OPEN HOUSE, 2-4 PM @ NEW OFFICE, 1723 NORTH BURLINGTON IN HOLDREGE (NORTH EDGE OF HOLDREGE AT THE CORNER OF 18TH & HIGHWAY 183)

How much water did I apply in 2009?

As irrigation winds down, you are probably curious as to how much water you applied during the season. In order to determine the amount of water you applied for the year, having a flow meter will provide you the most accuracy. Flow meters vary as to their unit outputs (gallons * 100, ac-ft * 0.001, etc.). The first thing to do is simply subtract your beginning year flow meter reading from the year-end reading to get units of water pumped. Then convert your units pumped to gallons.

- Multiply ac-ft by 325,851 to get gallons
- Multiply ac-in by 27,154 to get gallons

Once you have determined the gallons of water pumped for the year, two calculations will provide you with the net irrigation inches applied.

1. Gallons Pumped / 27,154 / Acres = Inches Pumped
2. Inches Pumped x Efficiency Factor* = Net Inches Applied

- *Efficiency Factors
- Subsurface Drip Irrigation = 0.95
 - Pivot - low pressure drops = 0.90
 - med. & low pressure impacts = 0.85
 - high pressure = 0.80
 - Surge Valve = 0.80
 - Gated Pipe - with reuse = 0.7
 - without reuse = 0.5

If you have any questions or would like assistance in determining how much water you applied, contact Curtis Scheele at 308-995-6121, Ext. 3.

ACROSS THE TRI-BASIN NRD

CNPPID's 2010 Irrigation Season!

At Central Nebraska Public Power and Irrigation District's monthly board meeting on September 8th, the Board of Director's approved an allocation and schedule for the 2010 irrigation season. The Board voted to deliver up to 15 inches per acre over a 10-week irrigation season. Normal deliveries are 18 inches over a 12-week period. During the last five irrigation seasons, CNPPID has delivered either 6.7 or 8.4 inches/acre in each of those years.

The increased allocation is possible because Lake McConaughy is 16 feet higher in elevation than it was one year ago. The gains can be attributed to conservation efforts, higher than normal flows in the South Platte River, wetter than normal conditions above the Lake last spring, and a waiver of winter releases required by CNPPID's FERC license.

Stage of Growth:

Corn (R5-Beg. Dent, 1/4 Milk Line to R5-Full Dent, 3/4 Milk Line stage): Corn needs 2.25 inches of moisture at 1/2 milk line. If corn roots are drawing from the fourth foot and you have 70% moisture on silt loam soil, you are done irrigating. At 3/4 milk line, corn needs 1.0 more inch to finish the year.

Average daily water use from Aug. 31-Sept. 6 was 0.12"-0.15".

Soybeans (R6-Full Seed to R7-Beg. Maturity stage): When leaves begin to yellow (R6.5), beans need 1.9 inches of moisture to finish the year. If bean roots are drawing moisture from the fourth foot and you have 65% moisture on silt loam soil, you are done irrigating. At R7, beans need no more water.

Average daily water use from Aug. 31-Sept. 6 was 0.12"-0.14".

Irrigation:

Foggy, not Soggy. That explains the weather over the last couple of weeks. Foggy mornings and no rains to wet the soil. The weather is simply prolonging the crop season.

You will notice below three weather stations reporting 0.00 inches of rain over the last two weeks. There other two are very low. Since I started this newsletter in June of 2005, I have never reported 0.00 inches over any two week period. Only four times have I reported 0.14 inches or less at any one weather station. Of these four times, they were never during the same two week period. In fact each of the four was in a separate year. Just an interesting observation.

From Aug. 31-Sept. 6 (13 NAWMDN sites), the average weekly rainfall was 0.02" and average weekly ET for corn was 0.80" and beans was 0.83".

Lake McConaughy is at 48.8% capacity versus 32.6% a year ago. Inflows to Lake McConaughy are at 941 cfs versus 1518 cfs a year ago. Flows on the South Platte River @ North Platte are at 266 cfs versus 162 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>Aug 27 – Sept 9</u>	<u>May 1 – Sept 9</u>
Arapahoe 6.9 mi. NW:	0.00"	14.71"
Bertrand 6.1 mi. SE:	0.00"	11.37"
Funk 12.5 mi. N:	0.00"	16.64"
Wilcox 0.3 mi. SW:	0.14"	15.35"
Minden 4.4 mi. NW:	0.05"	12.71"

NAWMDN CROP ET INFORMATION

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

7 Days = Aug 24-Aug 30 7 days = Aug 31-Sept 6

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

- Atmometer Station: Arapahoe 7 Northwest (#5)
Evaporation: Week #1 = 1.20 inches Week #2 = 0.90 inches
- Atmometer Station: Elwood 1 East (#6)
Evaporation: Week #1 = 0.90 inches Week #2 = 0.80 inches
- Atmometer Station: Bertrand 4 Southwest (#7)
Evaporation: Week #1 = 1.00 inches Week #2 = 0.90 inches
- Atmometer Station: Bertrand 6 Northeast (#12)
Evaporation: Week #1 = 1.00 inches Week #2 = 0.60 inches
- Atmometer Station: Holdrege 5 Southeast (#9)
Evaporation: Week #1 = 1.10 inches Week #2 = 0.65 inches
- Atmometer Station: Funk 6 Northeast (#8)
Evaporation: Week #1 = 1.20 inches Week #2 = 1.10 inches
- Atmometer Station: Minden 11 Southeast (#2)
Evaporation: Week #1 = 1.40 inches Week #2 = 0.90 inches
- Atmometer Station: Minden 5 North (#3)
Evaporation: Week #1 = 0.85 inches Week #2 = 0.80 inches

		<u>Crop Coefficients (Kc)</u>	
<u>Corn</u>	Kc	<u>Soybeans</u>	Kc
Stage		Stage	
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 tribasinrnr.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



***A bull snake crossing the road.
A sign of rain?
How about foggy weather?***

There is no exercise better for the heart than reaching down and lifting people up.

- John Andrew Holmes

*** 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

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."