

## PROGRAM INFORMATION

### *EQIP, CSP, WHIP, WRP, CREP, & CONT. CRP:*

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

EQIP: THERE WILL BE A CHANGE IN THE RANKING THIS UPCOMING YEAR. IN THE PAST, SUBSURFACE DRIP SYSTEMS (SDI'S) COMPETED UNDER THE SAME RANKING CRITERIA AS PIVOTS WITH PIVOTS HAVING A HIGHER PRIORITY. THIS COMING YEAR, 2011, THE LOCAL WORK GROUP DECIDED TO SET ASIDE \$40,000.00 OF THE EQIP MONEY TO FUND SDI'S. THE SDI'S WILL COMPETE AGAINST THEMSELVES UNDER THEIR OWN RANKING CRITERIA AND THE PIVOTS WILL COMPETE AGAINST THEMSELVES UNDER THEIR OWN RANKING CRITERIA. THE END RESULT WILL BE THAT WE WILL COST-SHARE A COUPLE OF SDI'S. THE NUMBER OF SDI'S TO BE COST-SHARED WILL DEPEND UPON THE SIZE OF THE SYSTEMS. SO IF YOU ARE WANTING A SHOT AT COST-SHARE FOR AN SDI SYSTEM, YOU NEED TO STOP BY YOUR LOCAL NRCS OFFICE AND SIGN AN APPLICATION.

**NSWCP:** APPLICATIONS FOR COST-SHARE CAN BE TAKEN ANYTIME AT YOUR LOCAL NRCS OFFICE. APPLICATIONS MUST BE SIGNED BY THE OWNER. THE NEXT ROUND OF IRRIGATION APPROVALS WILL BE REVIEWED IN DECEMBER.

**ENERGY EFFICIENCY GRANT:** APPLICATIONS FOR 2011 CAN BE TAKEN AT ANYTIME. CONTACT KELLEY MESSENGER WITH RURAL DEVELOPMENT AT 308-237-3118, EXT. 4.

## CALENDAR OF EVENTS

SEPT 14: TBNRD BOARD MEETING 7:30 PM

SEPT 14, 15, & 16: HUSKER HARVEST DAYS: GOTO [www.HUSKERHARVESTDAYS.COM](http://www.HUSKERHARVESTDAYS.COM) FOR MORE INFO.

OCT 4: CNPPID BOARD OF DIRECTORS MEETING 9 AM

### Tips Before Purchasing an SDI System!!!

- **EDUCATE YOURSELF** about Subsurface Drip Irrigation (SDI). Seek out university and other educational resources. A great place to start is at the following website: <http://www.ksre.ksu.edu/sdi/>. Review the minimum design components. SDI's are not a system for cutting corners.
- Visit with producers that have used SDI. They can be a wealth of information as to what does and doesn't work for them.
- Interview at least two companies. Ask them for references, credentials, and sites of installed systems. Ask questions about their designs and compare them to the minimum design criteria. Ask them what their roles are in the design, installation, and servicing the systems. What guarantees are provided.
- Take a water sample to see what is in your water. Know what options there are to treat and the costs involved.

If you need assistance in gathering educational resources or have any questions concerning SDI, contact Curtis Scheele at 308-995-6121, Ext. 3.

## ACROSS THE TRI-BASIN NRD

### **2010 Year End Reports Due!!!**

**EQIP Irrigation Water Management (IWM) Records:** **All EQIP contract holders with irrigation practices need to submit their 2010 irrigation records to their local NRCS office.** These reports differ from the Crop Water Use reports required by the NRD. These require more information such as soil moisture, ET, rainfall, and flow meter readings. An NE-ENG-80 form was sent out last spring to be used. Copies of agronomists field reports, CNPPID's schedule, or other forms can be substituted.

**Water Use Reports:** The NRD would appreciate your tillage info on these reports (acres of no-till, conventional till, etc). The NRD feels they can show water conserving benefits through no-till, etc. Without tillage info, these benefits can't be shown.

**Deadline for submitting these reports to the Tri-Basin NRD is November 19, 2010.**

**Nitrogen Management Reports:** See tillage info request under Water Use Reports above. **Deadline for submitting these reports to the Tri-Basin NRD is December 31, 2010.**

### **Stage of Growth:**

**Corn (R5.5-1/2 Milk Line stage to R6-Black Layer stage):** At R6, the milk line has advanced to the cob and the black layer has formed. At this point, the plant needs 0.0 inches of moisture for yield.

*Average daily water use from Aug. 30-Sept. 5 was 0.14"-0.22".*

**Soybeans (R6.5-Full Seed stage to R7-Beginning Maturity stage):** R7 is when one pod on the main stem has reached the mature color of brown or tan. At this point, the plant needs 0.0 inches of moisture for yield.

*Average daily water use from Aug. 30-Sept. 5 was 0.18"-0.19".*

### **Irrigation:**

Gated pipe is pulled apart and ready for pick up if not picked up already. There are a few producers who are putting on their last water on soybeans which are just starting to turn color.

I am hearing some talk about some corn that was possibly shut off from irrigation too soon. This being due to ample moisture and thus the root depth didn't get as deep as it could have. Thus it has been unable to draw moisture from the 3<sup>rd</sup> and 4<sup>th</sup> foot depths. Soil moisture sensors can help determine root depth by showing moisture usage in the soil profile.

*August 30-September 5 (13 of 13 NAWMDN sites reporting): average weekly rainfall was 0.56" (range 0.27" to 2.00") and average weekly ET for corn was 1.15" and for soybeans was 1.28".*

Lake McConaughy is at 89.2% capacity versus 48.8% a year ago. Inflows to Lake McConaughy are at 3306 cfs versus 858 cfs a year ago. Flows on the South Platte River @ North Platte are at 227 cfs versus 242 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 26 – Sept 8</u>	<u>May 1 – Sept 8</u>
<b>Arapahoe 6.9 mi. NW:</b>	<b>0.50"</b>	<b>15.60"</b>
<b>Bertrand 6.1 mi. SE:</b>	<b>0.36"</b>	<b>18.35"</b>
<b>Funk 12.5 mi. N:</b>	<b>0.29"</b>	<b>16.81"</b>
<b>Wilcox 0.3 mi. SW:</b>	<b>1.82"</b>	<b>24.96"</b>
<b>Minden 0.855 mi. W:</b>	<b>0.45"</b>	<b>22.86"</b>

# 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 23-Aug 29    7 days = Aug 30-Sept 5

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

- Atmometer Station: Arapahoe 7 Northwest (#6)  
**Evaporation: Week #1 = 1.90 inches    Week #2 = 1.30 inches**
- Atmometer Station: Elwood 1 East (#7)  
**Evaporation: Week #1 = 1.60 inches    Week #2 = 1.60 inches**
- Atmometer Station: Bertrand 4 Southwest (#8)  
**Evaporation: Week #1 = 1.40 inches    Week #2 = 1.60 inches**
- Atmometer Station: Bertrand 6 Northeast (#12)  
**Evaporation: Week #1 = 1.60 inches    Week #2 = 1.40 inches**
- Atmometer Station: Holdrege 5 Southeast (#9)  
**Evaporation: Week #1 = 1.50 inches    Week #2 = 1.30 inches**
- Atmometer Station: Axtell 5 Northeast (#5)  
**Evaporation: Week #1 = 1.50 inches    Week #2 = 1.30 inches**
- Atmometer Station: Minden 11 Southeast (#2)  
**Evaporation: Week #1 = 1.50 inches    Week #2 = 1.30 inches**
- Atmometer Station: Heartwell 4 Southeast (#4)  
**Evaporation: Week #1 = 1.30 inches    Week #2 = 1.00 inches**

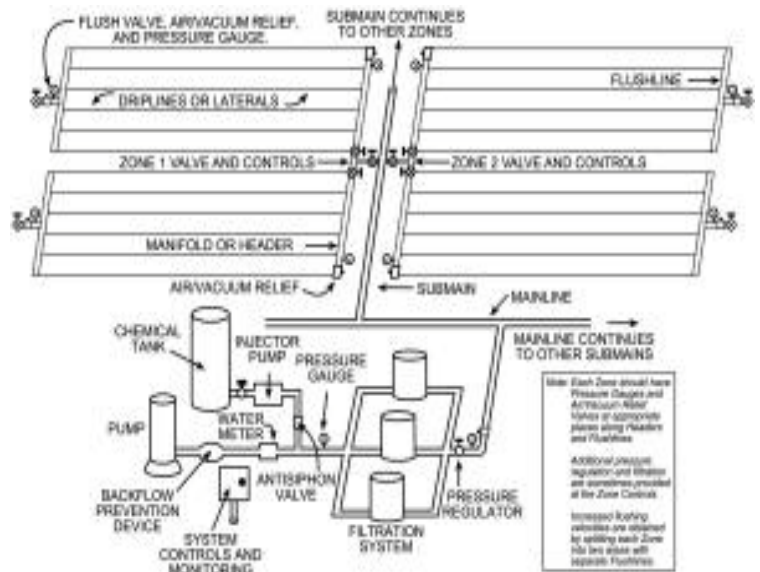
Corn		Soybeans	
Stage	Kc	Stage	Kc
2 leaf	0.10	Cotyledon (VC)	0.10
4 leaf	0.18	1st Node (V1)	0.20
6 leaf	0.35	2nd Node (V2)	0.40
8 leaf	0.51	3rd Node (V3)	0.60
10 leaf	0.69	Beg. Bloom (R1)	0.90
12 leaf	0.88	Full Bloom (R2)	1.00
14 leaf	1.01	Beg. Pod (R3)	1.10
16 leaf	1.10	Full Pod (R4)	1.10
Silk, Bl., 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\\_page2010.htm](http://www.cnppid.com/ET_Map_location_page2010.htm)  
[elkhorn.unl.edu/ETGage/index.jsp](http://elkhorn.unl.edu/ETGage/index.jsp)  
 Water Use Hotline: 1-800-993-2507  
 Central Irrigation District: [www.cnppid.com/ETdata2009.htm](http://www.cnppid.com/ETdata2009.htm)  
 Cropwatch: [www.ianr.unl.edu/cropwatch/weather/gdd-et.html](http://www.ianr.unl.edu/cropwatch/weather/gdd-et.html)

## 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 [tribasinnrd.org](http://tribasinnrd.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.oznet.ksu.edu/sdi](http://www.oznet.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)



*Basic SDI – Drawing courtesy of Kansas State University*

***In 1972, 154 Conservation Districts in Nebraska merged into 24 NRD's. There are currently 23 NRD's. The NRCS and NRD's have partnered on over 900 watershed dams and many other conservation practices across Nebraska over the years.***

\*\*\* 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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 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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