

PROGRAM INFORMATION

EQIP, WHIP, WRP, CREP, Cont. CRP, & SAFE:

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

NSWCP: APPLICATIONS FOR COST-SHARE ASSISTANCE CAN BE TAKEN ANYTIME AT YOUR LOCAL NRCS OFFICE. JULY 29TH IS THE APPLICATION CUTOFF DATE IN ORDER TO BE REVIEWED FOR APPROVAL AT THE TBNRD'S AUGUST MTG. FLOW METER AND NON-IRRIGATION APPLICATIONS WILL BE REVIEWED IN AUGUST. IRRIGATION PRACTICES AND ALL OTHER APPLICATIONS WILL BE REVIEWED IN SEPTEMBER. AS A SIDE NOTE, **FLOW METERS COST-SHARED THROUGH NSWCP ARE REQUIRED TO READ IN ACRE-INCHES AND CANNOT HAVE A RESETTABLE TOTALIZER.**

CALENDAR OF EVENTS

JULY 4: 4TH OF JULY HOLIDAY, GOV'T OFFICES CLOSED

JULY 7: CNPPID BOARD OF DIRECTORS MEETING 9 AM

JULY 8: TBNRD BOARD MEETING 1:30 PM

JULY 12-17: KEARNEY COUNTY FAIR

JULY 20-24: PHELPS COUNTY FAIR

JULY 30-AUGUST 2: GOSPER COUNTY FAIR

JULY 30: NO-TILL WHIRLWIND EXPO NEAR PLAINVIEW, NE
GOTO WWW.NOTILL.ORG OR CALL 1-888-330-5142 FOR MORE INFORMATION & REGISTRATION.

No-Till Residue: How Valuable Is It???

No-till residue is very valuable in crop production. Hopefully, this synopsis will shed some light on its value.

No-till residue protects the soil from rain and irrigation water droplets. This residue prevents crusting, thus increasing water infiltration (reduced runoff) and seed emergence. Without this residue money is spent replacing the runoff water with irrigation. Equipment is used to break crusts or irrigation is used to water up crops all because money was spent removing the residue which allowed the creation of crusts.

No-till residue prevents valuable water from evaporating off the soil. Evaporated water because of tillage expenses has to be replaced by spending additional money to irrigate.

No-till residue prevents weeds which utilize a lot of valuable water. Weed seeds are planted with tillage equipment, fuel and time expenditures. Then dollars are spent killing weeds and replacing lost water from the weeds.

No-till residue collects off-season moisture at no expense.

No-till residue provides a strong soil structure due to extra organic matter. This structure keeps pivot tracks from creating ditches which are later worked in with equipment, fuel and time.

No-till residue increases organic matter. Organic matter increases nutrients for the crops meaning less fertilizer.

In closing, dollars are spent creating situations that require additional dollars rectifying them.

ACROSS THE TRI-BASIN NRD

Ultrasonic Flow Meter Measurements, FREE!!!

Again in 2008, you can request an ultrasonic flow meter measurement with no cost to you. That's right, no cost to you! The ultrasonic flow meter is a portable flow meter that clamps onto the outside of the pipe. It determines flow through the use of two sensors.

The ultrasonic flow meter can be used to determine how much water your well is pumping. It can tell you how much water is going into your pivot system. It can be used to determine how much water you are losing from leaky gates and gaskets. It can be used to determine the amount of water you are applying to your field. It can also be used to check your permanently installed flow meter.

If you wish to request an ultrasonic flow meter measurement, you can contact Curtis Scheele at 308-995-6121, Ext. 3 to schedule an appointment.

Stage of Growth

Corn (6-leaf to 16-leaf stage): The leaf stage is determined by counting leaves from the bottom to the upper most leaf whose leaf collar is visible. After the 6-leaf stage, stalk and root growth combine to tear the lower leaves from the plant, so marking some upper leaves early helps in determining leaf stage after 6-leaf.

Soybeans (2nd Node to 5th Node stage): To determine node stage, the 2nd Node has two tri-foliolate leaves open, the 3rd Node has three tri-foliolate leaves open and so forth. This method is used until we reach Beginning Bloom (R1).

Irrigation

There is a large range of crop stages this year. Because of this, utilizing the network of atmometers and your own crop stages is even more important when determining how much water your crop is using. At years end, it could save you a couple of irrigations. And that means more money in your pocket. See page 2 for links to two websites for gathering atmometer information in your area. They are listed under the ET Information section under NAWMDN sites.

CNPPID started water deliveries on July 1st as scheduled despite a last minute rush to repair the main canal due to a break. Last week, Plum Creek flooding in Gosper County caused Phelps County canal to break. CNPPID crews and crews from other construction companies worked hard to complete the repairs in time to have deliveries on July 1st.

Lake McConaughy is at 45.4% capacity versus 37.3% a year ago. Inflows to Lake McConaughy are at 377 cfs versus 66 cfs a year ago. Flows on the South Platte River @ North Platte are at 155 cfs versus 230 cfs a year ago.

Rainfall

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

Rainfall totals – **June 19 thru July 2:**

Arapahoe 9.8 mi. NNE	0.27"
Bertrand 6.1 mi. SE	0.90"
Funk 12.5 mi. N	1.02"
Wilcox 0.3 mi. SW	1.00"
Minden 4.4 mi. NW	2.84"

NAWMDN CROP ET INFORMATION

Additional Atmometer sites and Weather Station Data can be found on CNPPID's website at <http://www.cnppid.com/ETdata2008.htm>.

7 Days = June 16-22 7 days = June 23-June 29

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

- Atmometer Station: Arapahoe 8 Northwest (#8)
Evaporation: Week #1 = **1.50 inches** Week #2 = **1.75 inches**
- Atmometer Station: Elwood 1 East (#9)
Evaporation: Week #1 = **1.45 inches** Week #2 = **1.55 inches**
- Atmometer Station: Bertrand 4 Southwest (#10)
Evaporation: Week #1 = **1.45 inches** Week #2 = **1.40 inches**
- Atmometer Station: Loomis 7 North (#13)
Evaporation: Week #1 = **1.40 inches** Week #2 = **1.70 inches**
- Atmometer Station: Holdrege 1 Southeast (#11)
Evaporation: Week #1 = **1.30 inches** Week #2 = **1.50 inches**
- Atmometer Station: Odessa 5 Southeast (#4)
Evaporation: Week #1 = **1.30 inches** Week #2 = **1.45 inches**
- Atmometer Station: Minden 10 South (#2)
Evaporation: Week #1 = **1.50 inches** Week #2 = **1.70 inches**
- Atmometer Station: Heartwell 4 Southeast (#5)
Evaporation: Week #1 = **1.50 inches** Week #2 = **1.60 inches**

Crop Coefficients (Kc)

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:
http://www.cnppid.com/ET_Map_location_page.htm
<http://elkhorn.unl.edu/ETGage/>
- Water Use Hotline – dial 1-800-993-2507
- Central Irrigation District: www.cnppid.com
- KRVN radio broadcasts or www.krvn.com

Websites of Interest

- NRCS Nebraska www.ne.nrcs.usda.gov
- Farm Service Agency www.fsa.usda.gov
- Central Irrigation District www.cnppid.com
- HPRCC www.hprcc.unl.edu
- TBNRD Home Page tribasinrtd.org
- UNL – Water extension-water.unl.edu
- Farmers Almanac www.farmersalmanac.com
- Chat 'n Chew Café <http://www.kingcorn.org/cafe>
- No-till On The Plains www.notill.org
- UNL Cropwatch cropwatch.unl.edu



Residue Protecting Soil



Tilled Runoff



No-till Runoff

Weeds in tilled pivot track

Off-season moisture

The real character of a person can be measured by what they do when no one is watching.
- ??????

*** 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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