

water spouts

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In this issue:

- Nesson Valley Irrigation Project Field Day July 11
- Weed Field Day June 27
- Project Safe Send: Disposal of Pesticides
- Irrigation Scheduling: Start Preparing Now
- North Dakota Water Education Foundation Summer Water Tours

Upcoming 2019 NDSU Field Days

Prosper and Fargo Area – Weed Day	June 27	701-231-8157
Streeter – Central Grasslands (REC)	July 8	701-424-3606
Hettinger REC 701-567-4323	July 9	
Dickinson REC	July 10	701-483-2348
Williston REC	July 10	701-774-4315
Nesson Valley Irrigation Research Site	July 11	701-774-4315
Casseltown (Agronomy Seed Farm)	July 15	701-347-4743
Carrington REC	July 16	701-652-2951
North Central REC (Minot)	July 17	701-857-7679
Langdon REC (8 a.m. to noon)	July 19	701-256-2582
Oakes Irrigation Research Site	Aug. 15	701-742-2744

Nesson Valley Irrigation Project Field Day July 11

The irrigation field day will be held at the Nesson Valley Research and Development Farm 23 miles east of Williston on North Dakota Highway 1804. Coffee will be ready starting at 8:30 a.m., and the tour will begin at 9 a.m., with NDSU research and Extension specialists presenting highlights from experiments conducted at the Nesson Valley site.

Topics to be presented on the tour are:

- Nesson Valley irrigation/management update
- High-tunnel research update
- Soybean research
- Soil structure
- Intercropping in irrigated production
- Chemicals and chemical injury on crops
- U.S. Department of Agriculture research update
- Emerging weed issues

The irrigation field day will conclude with a noon luncheon sponsored by area businesses.

Individuals with disabilities may request reasonable accommodations to participate in NDSU-sponsored programs and events. To request accommodations, contact the WREC by July 8.

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Weed Field Day June 27

The NDSU Weed Science team will host an educational field day Thursday, June 27, from 8 a.m. to noon for farmers, agricultural industry professionals, Extension educators, consultants and others who apply herbicides.

The event will be held at the NDSU Prosper and Northwest 22 research sites. Prosper will feature weed control plots in corn and soybean systems. The Northwest 22 location will feature weed control in corn, soybean, small grains, oil-seed crops and industrial hemp.

Registration will begin at 8 a.m. at the Prosper Research site, located at the southwest corner of the intersection of North Dakota Highway 32 and 160th Avenue Southeast approximately five miles east of Amenia. About 10 a.m., the field day will move to the Northwest 22 farms, located on the south side of 40th Avenue North, just west of Interstate 29 in Fargo.

Registration is free for those who attend. We have applied for 3 pest management continuing education unit credits for this event.

Field Day Agenda

- 8-8:30 a.m. Registration at Prosper Research Site
- 8:30-10 a.m. Tour of Prosper weed science plots
- 10-10:30 a.m. Travel to Northwest 22
- 10:30-noon Tour of Northwest 22 weed science plots

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and

Kirk Howatt
NDSU Associate Professor, Weed Science
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Project Safe Send: Disposal of Pesticides

Project Safe Send is a safe, simple and nonregulatory program that helps people safely and legally get rid of unusable pesticides free of charge. The program accepts old, unusable or banned pesticides, including herbicides, insecticides, rodenticides and fungicides. For a list of accepted pesticides, go to www.nd.gov/ndda/pesticide-program/project-safe-send/project-safe-send-accepted-pesticides.

The collected pesticides are shipped out of state for incineration. Project Safe Send is funded through product registration fees paid by pesticide manufacturers.

Check your storage areas for any unusable pesticides. If the containers are deteriorating or leaking, pack them in larger containers with absorbent materials. Free heavy-duty plastic bags are available from the North Dakota Department of Agriculture if needed. More information on safely transporting old pesticide containers can be found at www.nd.gov/ndda/pesticide-program/project-safe-send.

People with more than 1,000 pounds of pesticides should preregister one week prior to delivery. No other preregistration is required. A maximum of 20,000 pounds of pesticides per participant will be accepted. Pesticide rinse water and empty containers no longer are accepted.

The collections will run from 8 a.m. to noon local time at the North Dakota Department of Transportation facilities in the following cities:

July 9	Wyndmere	7775 Hwy 18
July 10	Ashley	520 7th St. S.W.
July 11	Bismarck	218 S. Airport Road
July 12	Hettinger	121 1st St. N.
July 15	Dickinson	1700 3rd Ave. W., Ste. 101
July 16	Tioga	425 2nd St. S.E.
July 17	Minot	1305 Hwy 2 Bypass E.
July 18	Harvey	501 Jackson Ave.
July 23	Larimore	1524 Towner Ave.
July 24	Langdon	10424 Hwy 5
July 25	Devils Lake	1905 Schwan Ave. N.W.
July 26	Valley City	1524 8th Ave. S.W.

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Pesticide Outreach Specialist
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Irrigation Scheduling: Start Preparing Now

Many irrigators typically start their irrigation systems near the end of June or after the Fourth of July, but you may need to be more vigilant and start checking the soil moisture status in irrigated fields now.

To help track soil moisture in the root zone, now is the time to set up an irrigation scheduling plan.

We can help. Weather variability, differences in soil water-holding capacities and the change in crop water use with growth combine to determine when irrigation is needed.

We have developed the following three irrigation scheduling tools for your use. They can be found online at www.ag.ndsu.edu/irrigation/irrigation-scheduling.

- An Extension publication (AE792, recently updated and revised) that explains the basics of the Checkbook Method of irrigation scheduling
- An electronic downloadable copy of an Excel spreadsheet version of the Checkbook Method, along with a users manual

After consulting with Kelly Cooper, manager of the Oakes Irrigation Research Site, I set up a checkbook for the field corn planted at the site. The emergence date was about May 28 and site has had several inches of rain, so the soil profile was full.

Figure 1 is a graph from the spreadsheet that shows when the corn will be approaching the irrigation trigger point of 50% depletion of the root zone water. However, this will change whenever more rain is

received or the daily temperatures become warmer than normal. I will continue to update the spreadsheet as the growing season progresses.

- A site-specific web-based irrigation scheduling program that is part of the North Dakota Agricultural Weather Network website: <http://ndawn.ndsu.nodak.edu/>. Look under the "Applications" menu on the left side. A copy of the users manual also is available on the irrigation scheduling website.

I used the NDAWN application to create a checkbook for corn planted at the Oakes Irrigation Research site. I entered the same information that was used in the spreadsheet version of the checkbook shown above. Both predicted the irrigation trigger point of 50% depletion would be reached about the same day, assuming no more rain is received at the site.

Using one of these methods of irrigation scheduling will provide guidance for when to irrigate and how much to apply.

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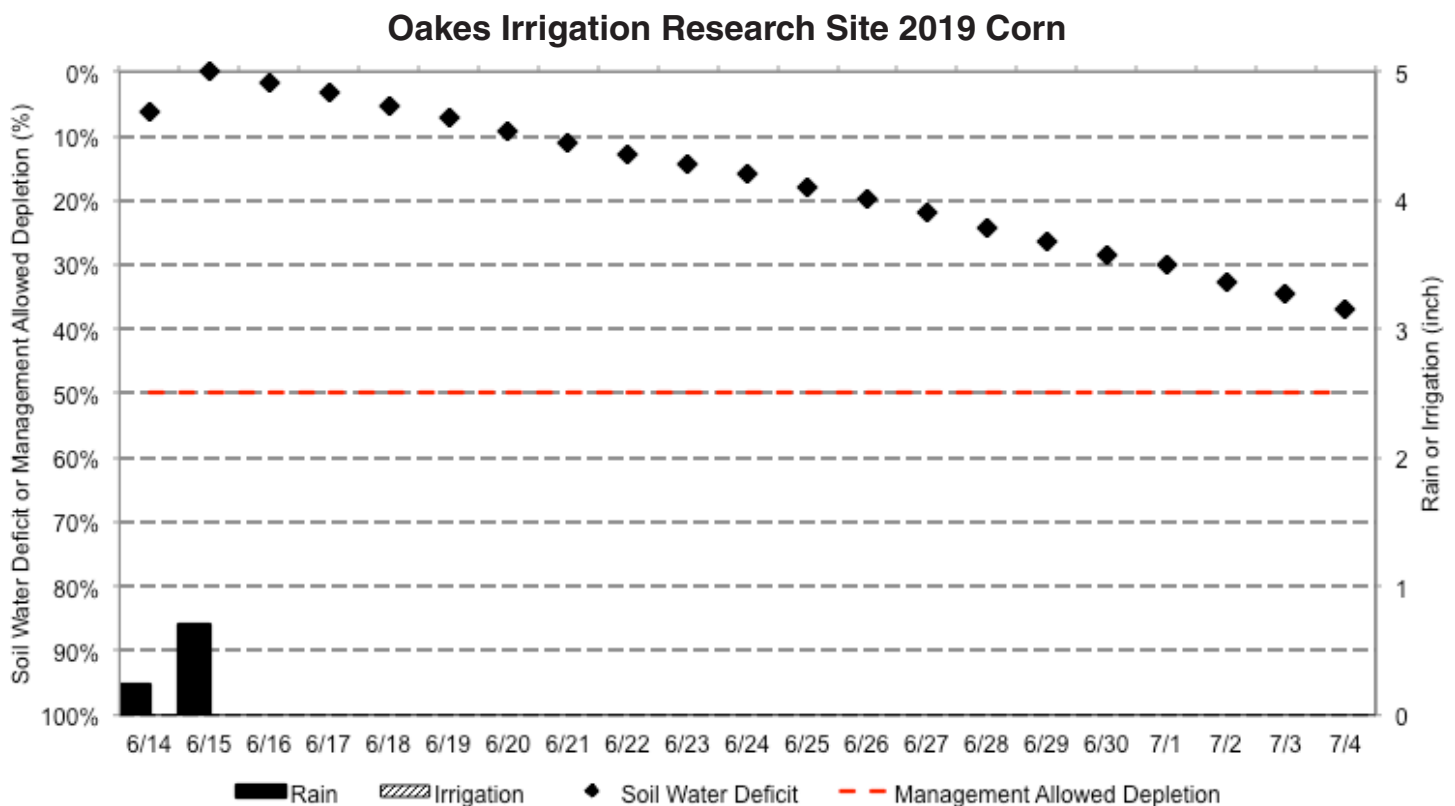


Figure 1. Shows how the soil moisture deficit in the root zone will change assuming no more rain is received between June 17 (date of last spreadsheet update) and July 4.



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This publication will be made available in alternative formats
for people with disabilities upon request, 701-231-7881.

North Dakota Water Education Foundation Summer Water Tours

Access to substantial quantities of clean water is
important for the development of North Dakota,
and the best way to learn about water projects
is to see them in person via a tour.

These tours provide a firsthand look at North
Dakota's critical water issues. Registration is \$20
per person and includes tour transportation, meals,
refreshments, informational materials and a one-year
subscription to *North Dakota Water* magazine.

Tours offered are:

- **June 27 Southwest North Dakota**
(tour begins and ends in Dickinson)
- **July 10 Missouri and Heart Rivers Expedition**
*(tour begins and ends in Bismarck;
includes stops at irrigation facilities)*
- **July 18 Lower Red River Basin**
(tour begins and ends in Grand Forks)

- **July 31 F-M Area Diversion Project
and Weather Modification**
(tour begins and ends in Fargo)
- **Aug. 7 Water and Oil**
(tour begins and ends in Williston)
- **Aug. 15 Missouri River and Industry**
(tour begins and ends in Bismarck)

For more information about each tour online,
go to <https://ndwater.org/events/summer-water-tours/>
or send a check made out to NDWEF and mail to
PO Box 2254, Bismarck, ND 58502. Please indicate
which tour or tours you want to attend and include
the number of people who will be attending.
For more information, give us a call or send an email.

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