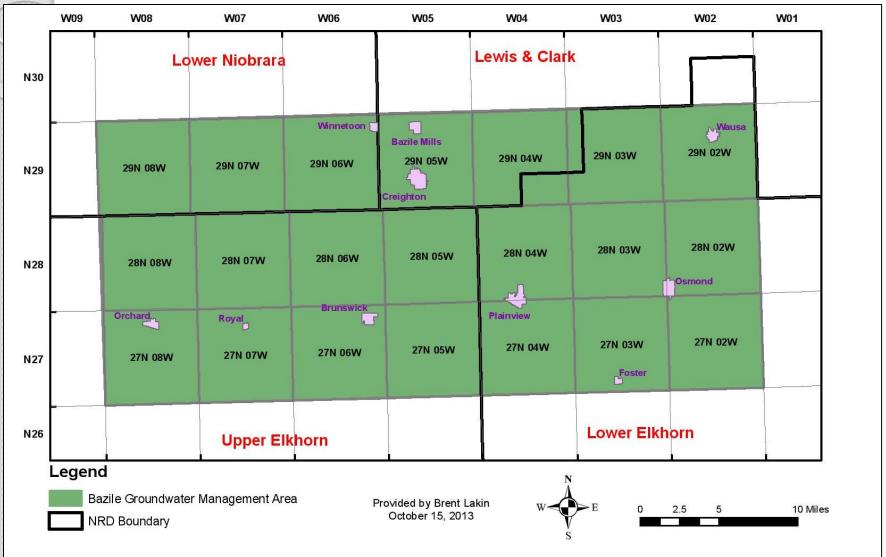
Bazile Groundwater Management Area (GWMA) Project Stephanie Butler **Project Coordinator** Upper Elkhorn NRD Office 402-336-3867 sbutler@uenrd.org

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Project History

- Groundwater nitrate issues since the 1980's
 - Known health affects
 - EPA health standard
- NRD Management Plans in place
- Nitrate levels have continued to rise

Bazile GWMA Boundaries



Average Nitrate Concentration per Township 2003-2013

	0					
6 .3 n=15	4 . 9 n=4	1 6 . 0 n=12	1 8 . 9 n=69	12.5 n=46	14.0 n=13	0.9 n=2
9.5 n=9	1 2 . 7 n=12	11.4 n=22	13.3 n=21	10.7 n=39	9.5 n=24	9 . 5 n=15
1 6 . 9 n=20	1 3 . 7 n=17	1 2 . 4 n=29	1 2 . 5 n=35	<mark>9.8</mark> n=31	1 3 . 3 n=41 ∎	11.9 n=35
● 0-7.5 ppm 7.6-10.0 ppm ≥10.1 ppm						

Project History

- Planning for Bazile GWMA project began in 2011
 - Combined effort of four NRDs
- Received funding in 2014









Project Funding

- Nebraska Department of Environmental Quality (DEQ)
 - Project Coordinator, supplies, demonstration sites
- Nebraska Environmental Trust (NET)
 - Demonstration sites, BMP cost-share
- Natural Resources Districts
 - Project Coordinator, cost-share, non-grant funded costs





Nebraska Department of Environmental Quality



Project Goals

- Short and long term goals
- Participation is key

Reduce nitrate levels, re-assess project and adjust Maintain nitrate levels under EPA standard

Promote BMPs, provide I&E events for residents

Cost-share Assistance

50% on flowmeters100% on tissue analysis





Past and Upcoming Events

2014

- Public meetings
- Farmer's Field Day
- BMP cost-share
- Deep vadose sampling



Upcoming

- Agricultural and urban demonstration sites and field days
- Communicate with producers
 - Incorporate BMPs into their management plans





Special Project

- Deep Vadose Sampling (down to 24 ft)
- Analyze for nitrogen
- Looking for locations
- 100% grant covered cost
- Results are kept anonymous





Activities and Accomplishments

CLASSIFIEDS/LEGALS



Management Area (GWMA) project has provided financial assistance this growing scanon

for area producers to incorporate best management practices (BMPs) into their management plans. The project received Fending through the Nebraska Environmental Trust to provide cost-share on plant tissue analyoil sampling eers have or have plans to tion. To date. ment plant tissue analysis 42 fields across the Bazile MA through early and late e analysis or end-ofstalk testing. Producers

utilized funding to flowmeters on 11 fields the area and deep vadout ig has been conducted at more being is fall. Results from the sis and soil sampling frogen ap ed on the contained in the milable in the soil. peovide producen te information and acer more control

http://www.uprind. Acres to Guarantee Futu

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"Making Wise Decisions Concerning Ou

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spram or other lederal id if there is any possibility of future into Platte River Basic prior to 2004 and p or documentation may receive 20%, on or impation purposes. Documentation or tax records. Any engoted acres th to them for any purpose.

> e Creek Watersh ent Best Manao

Bazile Groundwater Management Area Project assists local producers

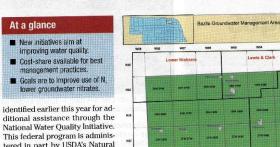
Farmer's Field Day held in Creighton

ners learn about managing nitrogen

NS

Irces

evels in groundthe Bazile Creek ed near Creighton imb. The area was "Bazile Triangle" litrate issues in the Ithough higher-thanrates and nitrogen nt in the field are ew to farmers there, their efforts have not en evident. abapter of N



because it is a joint effort of several agencies," Butler says. "The NRDs have adopted an area management plan that will be utilized across the entire region." With additional support from the NWQI for the Bazile Creek and Wahoo Creek regions, more than \$600,000 of federal funding was awarded to producers in the Bazile Creek GWMA alone to install conservation practices.

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IN THE FIELD

rect Timing Mal

GWMA Project

Righ stalks at the proper

e GWMA's 2014

Farmer

"In 2015, we will have demonstration sites established with local producers featuring irriga-

producers who are not currently practicing these

Area produc ers also have other avenues of cost-share funding to help impleasent BMPs in their managenentplans, Funding for activities such as well decommissioning. cropland to iror alfalfa conver-

the funding for cost-share programs, Funds are still available and applications are oproved on a first-come, firstserved basis with precedence.

ractices work to reduce nitrates

BMPs receiving

rigated grassland and manure analysis are fund-

More Project Information

• www.uenrd.org

- Bazile GWMA project plan
- Maps
- Facebook page
 - Project updates, events

