

# 2017 Drought Response

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**NDSU**

EXTENSION

# Getting the TEAM together!

- Extension Personnel (specialist, agents, communications)
- State Climatologist
- ND Dept. of Agriculture
- ND State Veterinarian
- ND Dept. of Health
- USDA Farm Service Agency
- USDA Natural Resources Conservation Service
- US Forest Service
- ND Stockmen's Association
- Independent Beef Association of ND
- Northern Plains Climate Hub
- Reps from ND congressional delegation
- Governors Staff

# Drought Reporting System

Drought October 3, 2018

\* Required

Name \*

Your answer

County \*

Choose

ND Climate Division Map



## Select Drought Severity

Click here for Drought Conditions

Descriptions:

<https://www.ag.ndsu.edu/drought/drought-conditions-descriptions>

- Severely Wet
- Moderately Wet
- Mildly Wet
- Normal
- Mildly Dry
- Moderately Dry
- Severely Dry

Please check the categories/areas that are being impacted by dry, normal or wet conditions. If you check a category, please provide supporting information in Comments section

# Drought Response

- Drought Resources
  - Handout
  - Website
- Water Testing
- Nitrate Testing
- Drought-Stressed Forages Program
- In-service Trainings



North Dakota

## Livestock Drought Resources

### NDSU Extension Service

[www.ag.ndsu.edu/drought](http://www.ag.ndsu.edu/drought) 701-231-7171  
Information on a variety of drought-related topics, including livestock and crop production; feeds and feeding; forages and grazing; livestock poisoning; lawns, gardens and trees; and farm/family stress

[www.ag.ndsu.edu/publications](http://www.ag.ndsu.edu/publications)  
To find a specific publication, use the search window on the top of the page and type in a topic or publication number.

- Livestock
  - Strategies for Managing Drought in the Northern Plains – R1819
  - Alternative Feeds for Ruminants – AS1182
  - Comparing Value of Feedstuffs – AS1742
  - Nitrate Poisoning of Livestock – V839
  - Feeding Management for Backgrounders – AS1158
  - Drylot Beef Cow/Calf Production – AS974
  - A Cow-Calf Producer's Guide to Custom Feeding – AS1162

### North Dakota Department of Agriculture

[www.nd.gov/ndda/drought-resources](http://www.nd.gov/ndda/drought-resources)  
701-328-2231 or 800-242-7535  
Drought resources, meeting summaries, news releases and links to additional information and agencies

- Drought hot line and interactive drought hotline map – 701-425-8454, [www.nd.gov/ndda/content/view-interactive-drought-hotline-map](http://www.nd.gov/ndda/content/view-interactive-drought-hotline-map)  
A resource to find hay buyers and sellers, locations with pasture available, and dry lot locations for livestock
- N.D. Mediation Service: 844-642-4752, [www.nd.gov/ndda/program/north-dakota-mediation-service](http://www.nd.gov/ndda/program/north-dakota-mediation-service)  
Provides mediation to farmers and ranchers on a wide range of issues, including disputes with federal and state agencies, wetland determinations, farm programs, crop insurance and agricultural credit
- N.D. State Board of Animal Health: 701-328-2655, [www.nd.gov/ndda/animal-health/north-dakota-state-board-animal-health](http://www.nd.gov/ndda/animal-health/north-dakota-state-board-animal-health)

## Livestock Water Testing GUIDELINES

Miranda Meehan, NDSU Extension Service Livestock Environmental Stewardship Specialist  
Mike Eli, North Dakota Department of Health Surface Water Program Manager  
Michelle Mrostrom, NDSU Veterinary Toxicologist

### Sample Protocol

- 1 Collect sample in clean 1-quart or larger plastic (preferred) or glass container.
  - a. Sample containers can be obtained from your county office of the NDSU Extension Service or the watershed coordinator with your local Soil Conservation District.
  - b. The Astro Chem Lab prefers you contact it to get a sample kit/ container.
- 2 Collect sample from area where livestock are drinking. If collecting cyanobacteria (blue-green algae), take a sample in the bloom and wear gloves because it can be toxic to humans.
- 3 Rinse container several times using water to be sampled
- 4 Fill container completely. Being sure to collect water from deeper in the water and the surface.
- 5 Label the container with following information:
  - a. name of waterbody
  - b. name of sampler
  - c. date collected
  - d. time collected
- 6 Seal the container tightly and wrap the top with tape to prevent leaking. Place the water in a sealed plastic bag.
- 7 Complete laboratory sample custody form required to be submitted with the sample; contact the laboratory if needed
- 8 If submitting a cyanobacteria sample, **ship immediately** on an ice pack (**no wet ice please**) by next-day delivery. Do not freeze the sample or leave it on the dashboard of your vehicle (avoid temperature extremes).  
\*We recommend collecting and shipping samples before Friday to avoid shipping delays.

### Testing Labs

- NDSU Veterinary Diagnostic Laboratory**  
701-231-7527 or 701-231-8307  
[www.vdl.ndsu.edu](http://www.vdl.ndsu.edu)
- Water screen: nitrates, pH, total dissolved solids (TDS), sulfates  
- Cost: \$25 for test and \$10 submission fee (submission paid once when submitting multiple samples)
  - Cyanobacteria (blue-green algae)  
- Cost: \$20 for test and \$10 submission fee (submission paid once when submitting multiple samples)
  - Turnaround: within one day of samples arriving at lab
  - Shipping:
 

<b>U.S. Postal Service</b> Veterinary Diagnostic Laboratory NDSU Dept. 7601 PO Box 6050 Fargo, ND 58108-6050	<b>FedEx/UPS</b> Veterinary Diagnostic Laboratory NDSU Van Es Hall 1523 Centennial Blvd. Fargo, ND 58102
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- Minnesota Valley Testing Laboratories Inc.**  
701-258-9720  
[www.mvtl.com](http://www.mvtl.com)
- Water screen: nitrates, conductivity, total dissolved solids (TDS), sulfates  
• Cost: \$49
  - Turnaround: seven days
  - Shipping: Minnesota Valley Testing Laboratories  
2616 East Broadway Ave.  
Bismarck, ND 58501
- Astro Chem Lab Inc.**  
701-572-7355  
<http://astrochemlab.com>
- Water screen: pH, conductivity, residual sodium carbonate, hardness, sodium adsorption ratio, total dissolved solids, sodium chloride, calcium, magnesium, sodium, iron, potassium, chloride, carbonate, bicarbonate, sulfate and nitrate-N
  - Cost: \$60
  - Turnaround: seven days
  - Shipping: Astro Chem Lab  
4022 2nd Ave. W.  
PO Box 972  
Williston, ND 58802

ict for concerns relating to livestock health and to t illness or death of livestock  
hrax information at [www.nd.gov/ndda/disease/anthrax](http://www.nd.gov/ndda/disease/anthrax)  
uirements to transport animals across state lines  
[www.nd.gov/ndda/animal-health-division/animal-vement-and-importation-requirements](http://www.nd.gov/ndda/animal-health-division/animal-vement-and-importation-requirements)

### Dakota Stockmen's Association

[stockmen.org/brand-inspection/inspection-nes](http://stockmen.org/brand-inspection/inspection-nes), 701-223-2522  
nspection for transporting livestock

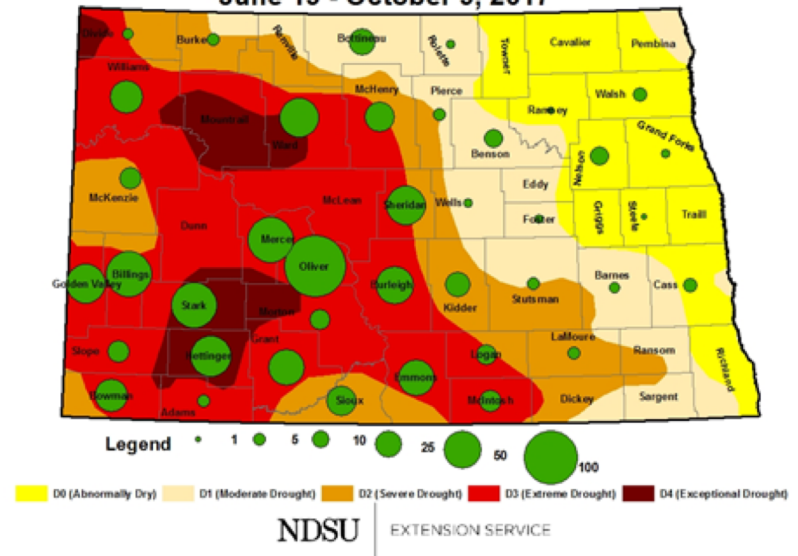
### ng Resources

ites are open for people to list hay and feed needs, 1 feed for sale or donation, and haulers available.  
FeedList: [www.ag.ndsu.edu/feedlist](http://www.ag.ndsu.edu/feedlist)  
partment of Ag Drought Hotline, 701-425-8454  
ive Map: [www.nd.gov/ndda/content/view-ive-drought-hotline-map](http://www.nd.gov/ndda/content/view-ive-drought-hotline-map)

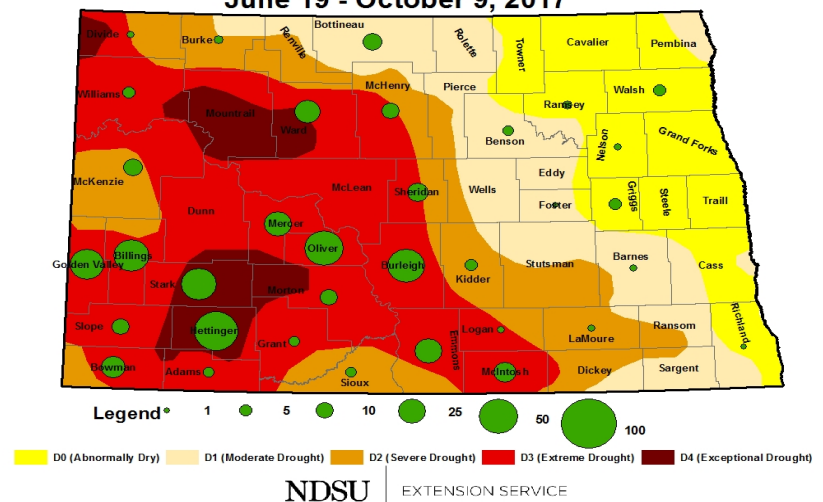
# Impacts

- 3,000 calls
- > 1,000 Office Visits
- Participated in 210 Meetings
- Delivered 122 Presentations
- 130 Media Interviews
- 27 News Releases
- 110 News Columns
- 41,000 Hits on Website

**Drought 2017**  
Number of NDSU Extension Office Calls  
June 19 - October 9, 2017



**Drought 2017**  
Number of NDSU Extension Office Visits  
June 19 - October 9, 2017



# Impacts

- Nitrate Testing
  - 447 Quick Tests
  - 337 Forage Samples
    - 162 had toxic levels
- Water Testing
  - 126 Field Tests
  - 94 Water Samples
    - 82 had toxic levels of TDS

