National VOAD Addresses the Drought (with help from others)

Today’s Topics

– Disaster Costs
– Drought Task Force
– Drought Web Page
– Drought Matrix
– Drought Forum
– Capacity Guide for Drought
– National Drought Mitigation Center
– EDEN

• Where we go from here?
# Top 5 Weather Related Disasters Post-2012

<table>
<thead>
<tr>
<th>Disaster</th>
<th>Costs in 2012 dollars</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katrina</td>
<td>$146 billion</td>
<td>1</td>
</tr>
<tr>
<td>Drought/Heat Wave 2012 and 2013</td>
<td>From $79 billion to $151 billion</td>
<td>2</td>
</tr>
<tr>
<td>Drought/Heat Wave 88</td>
<td>$77.6 billion</td>
<td>3</td>
</tr>
<tr>
<td>Hurricane Sandy</td>
<td>$65 billion to $75 billion</td>
<td>4</td>
</tr>
<tr>
<td>Drought/Heat Wave 80</td>
<td>$55.6 billion</td>
<td>5</td>
</tr>
</tbody>
</table>
August 7, 2012
Drought

2012

National VOAD President, John Robinson called for a taskforce on drought:

The Issue: VOAD knows how to recover from storms, floods, tornadoes, etc.

But what about drought?
National VOAD Drought Taskforce
We immediately set up a drought web page on the National VOAD site.

http://www.nvoad.org/task-forces/drought-task-force
National Disaster Recovery Framework

Strengthening Disaster Recovery for the Nation
September 2011

- Collaboration
- Coordination
- Communication
<table>
<thead>
<tr>
<th>Program, Authority, Capability, Resource</th>
<th>Description</th>
<th>Audiences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of Private-Sector Liaison</td>
<td>Provides expertise in private-sector capabilities and services; provides coordination with private-sector organization</td>
<td>other businesses, Business economy</td>
</tr>
<tr>
<td>Office of Infrastructure Protection</td>
<td>Provides technical assistance in protective measures for critical infrastructure</td>
<td>city/county agencies</td>
</tr>
<tr>
<td>Business Development Program</td>
<td>Provide technical assistance to establish or expand Minority Business Enterprise (MBE)</td>
<td>Business owners, entrepreneurs, Extension, Small Business Expansion, Technical, Training</td>
</tr>
</tbody>
</table>
Drought - Webinars

Webinar Topics, so far:

• Disaster Mental Health for the Unexpected Helper
• How to Set Up a Long-Term Drought Recovery Group
• National Drought Recovery Framework and Drought
• Wildfire (Social Media)
Drought Forum

VOAD Drought & Wildfire Forum Agenda

- Drought & Wildfire update
- National VOAD Drought Task Force update
- State leaders’ reports
- Member and Partner updates

Third: Tuesday of the month

Time: 3 pm Eastern/Noon Pacific

Line: 866-431-3918  PIN 9958751#

Slides: https://gomeet.itap.purdue.edu/droughtvoad/
KEY:

- Drought persists or intensifies
- Drought remains but improves
- Drought removal likely
- Drought development likely

Author: Brad Pugh, Climate Prediction Center, NOAA

http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.png

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events, such as individual storms, cannot be accurately forecast more than a few days in advance. Use caution for applications such as crops that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor.

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).
A New Guide for Communities Fighting Drought 2013
Capacity-Building Program For Drought Response

GOAL of the Guide
Work together – across agencies and organizations – with a community-wide resolve to build the capacity to survive – and possibly thrive – in the current and future droughts situations.
Who Helped Develop this Program

- Extension Disaster Education Network
- Federal Emergency Management Agency
- National Voluntary Organizations Active in Disaster
- National Drought Mitigation Center
- U.S. Department of Agriculture
- U.S. Department of Health and Human Services
Section I  Drought Capacity Planning Guide for Communities

- Goal
- Capacity Building Defined
- Leadership Skills and Team
- Build a Team
- Identify Who Can Help
- Behavioral Health
- Set Up Program Promotion
- Community Actions
- Workshop and Resource Fair
Section II  Drought Planning Toolbox

• Community Leader Action Items
• The Team: Local Organizations
• Community Vulnerability Score Card
• Community Assets Identification
• Mitigation Measures
• Capacity Building Plan Check List
• Workshop and Resource Fair Tips
• Participant Feedback Form
Section III: Resources

Long-Term Recovery Manual from the National VOAD
http://nvoad.org/library/cat_view/5-long-term-recovery-groups
and
www.nvoad.org/library/doc_download/30-long-term-recovery-guide

Guide to Drought Ready Communities National Drought Mitigation Center
http://drought.unl.edu/Planning/PlanningProcesses/DroughtReadyCommunities.aspx

EDEN Drought resources page
www.eden.lsu.edu/drought

How to Reduce Drought Risk from Western Drought Coordination Council
http://drought.unl.edu/portals/0/docs/risk.pdf

U.S. Drought Portal
http://drought.gov/drought/

National Drought Mitigation Center
http://drought.unl.edu/

Substance Abuse and Mental Health Services Administration’s resources on drought

FEMA Regional Drought Points of Contact and USDA Drought Resources
http://nvoad.org/library/cat_view/12-drought-resources

National VOAD Points of Consensus (multi-hazard, not drought specific)
http://nvoad.org/library/cat_view/9-points-of-consensus

Resilience
http://www.masgc.org/pdf/masgp/08-014.pdf
## Activity 1

### Community Assets Identification

<table>
<thead>
<tr>
<th>Community Plans and Agreement</th>
<th>Yes</th>
<th>No</th>
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</thead>
<tbody>
<tr>
<td><strong>Does your community have:</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Section A: Critical Infrastructure</strong></td>
<td></td>
<td></td>
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<tr>
<td>Wastewater treatment system</td>
<td></td>
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<td>Power grid</td>
<td></td>
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<td>Water purification system</td>
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<td>Transportation/ evacuation routes</td>
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<tr>
<td><strong>Total check marks for Section A</strong></td>
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<tr>
<td><strong>Section B: Critical Facilities</strong></td>
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<td>City Hall or other local government buildings</td>
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<td>Police station or other law enforcement buildings</td>
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<tr>
<td>Fire stations</td>
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<tr>
<td>Communications office or substations</td>
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<tr>
<td>Emergency operation center</td>
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<td>Evacuation shelter(s)</td>
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<tr>
<td>Hospital(s)</td>
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<tr>
<td>Critical record storage</td>
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<tr>
<td><strong>Total Check marks for Section B:</strong></td>
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<tr>
<td><strong>Section C: Other?</strong></td>
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</table>
This is adapted from the Guide to Drought-Ready Communities from National Drought Mitigation Center (see Section III Resources. Assuming you are facing a drought right now, rate the following drought impacts on a H = High, M = Medium, and L = Low impact. Use teams, workshops and other methods to get community input. Compare input results to work toward setting priorities and assigning action items.

<table>
<thead>
<tr>
<th>H-M-L Economic Impacts</th>
<th>H</th>
<th>M</th>
<th>L</th>
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<tbody>
<tr>
<td>Loss from Crop Production</td>
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<tr>
<td>Annual and perennial crop losses</td>
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<tr>
<td>Damage to crop quality</td>
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<tr>
<td>Reduced productivity of crop land</td>
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<td>Insect infestation</td>
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<td>Plant disease</td>
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<td>Wildlife damage to crop</td>
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<tr>
<td>Other?</td>
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<tr>
<td>Loss from dairy and livestock production</td>
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<tr>
<td>Reduced productivity of rangeland</td>
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<tr>
<td>Forced Reduction of foundation stock</td>
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<tr>
<td>Closure/limitation of public lands to grazing</td>
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<tr>
<td>High cost/unavailability of water for livestock</td>
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<tr>
<td>High cost/unavailability of feed for livestock</td>
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<tr>
<td>High livestock mortality rates</td>
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<tr>
<td>Disruption of reproduction cycles</td>
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Activity 3

Mitigation Measures

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Activity 4

Capacity Building Plan Check List (Community Generated)

<table>
<thead>
<tr>
<th>Alternatives</th>
<th>Descriptors</th>
<th>Point of Contact</th>
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</tbody>
</table>
Activity 5

Open Forum
What are the next steps?
Pilot Updates

• This guide is a pilot
• There are still some $500 grants
• Visit www.EDEN.lsu.edu/drought

Visit the National VOAD Task Force:
http://www.nvoad.org/task-forces/drought-task-force

For more information contact:
Steve Cain cain@purdue.edu
EDEN HS Project Director
Indiana VOAD member
Purdue University
Drought

Where do we go from here?
Monitoring Resources

http://droughtreporter.unl.edu
Managing Drought Risk on the Ranch

Drought is a normal part of climate...it will happen again. Fortunately, there are things you can do before, during, and after drought to reduce your risk. Ranchers are increasingly implementing new ways to better prepare for and respond to drought.

The information, strategies and resources on this site are designed to provide livestock producers in the Great Plains region with information on how to incorporate management strategies to reduce the threat drought poses to livestock and forage operations.

Workshops and Webinars

Upcoming Workshop:
Planning for Extended and Extreme Drought
January 9, 2014
Garden City, KS

Do you have a plan for extended or extreme drought on your farm or ranch? Do you need one? What can you do to prepare and manage through drought?

Whether you ranch or farm, come to this workshop to learn from other farmers and ranchers, researchers and advisors, and to share your ideas. The workshop will feature separate tracks to address the planning needs of ranchers and irrigated crop farmers.

This workshop is sponsored by the National Drought Mitigation Center, with funding support from NOAA National Integrated Drought Information System (NIDIS). Finney County Extension is a co-sponsor of the event.

Drought Conditions

Water Year Precipitation (Oct. 1st to present)
Precipitation - past 30 days
Weather forecast
Long Term Outlook
Drought Management Database

Introduction
This is a growing collection of information about what has been tried in responding to and preparing for drought in the United States. It's categorized by sector, that is, information of interest for farming, livestock production, water supply and quality, energy, recreation and tourism, fire, plants and wildlife (environment), and society and public health. Each sector is further divided into subsectors.

The Full Search option lets you search by many more criteria, including dates, type of activity (planning, response, monitoring, etc.), decision-making scope (from individual through federal government), by state, and by resource type. You can also do a text search.

Have something to contribute or recommend? Visit the Submit a Strategy page.

Quick Search by Sector
- Farming
- Livestock Production
- Water Supply & Quality
- Energy
- Recreation/Tourism
- Fire
- Plants & Wildlife
- Society & Public Health

Recent Drought Mitigation News
- State urges steps to prepare for drought in 2014
- Sep. 6, 2013
- Fighting wildfires with science
- Fighting wildfires with science - CBS (NAT)
- Jul. 7, 2013
- Nitrate spike tests Des Moines water supplies - Des Moines Register (IA)
- Jul. 1, 2013
- Wind Power Firms Push to Extend Tax Credit
- May, 10, 2013
- Can this couple have their quail habitat and graze it too? - Gilmer (Texas) Mirror
- May, 9, 2013

Read more at the Drought Mitigation News Archive
Climate Data

Selected Atlas Station: 253910 (HOLDREGE)

Results for HOLDREGE (253910, County) between 1/1/2000 and 10/01/2013.

Date
1/1/2000 to 10/01/2013
Station start date: 1/1/1908
The Drought Monitor is only available starting on 1/1/2000.

Boundary
Select a DM boundary
State
County
Climate Division
HUC-2
HUC-4
HUC-6
HUC-8
National Drought Mitigation Center

Send: Questions, comments to:
Kelly Helm Smith
ksmith2@unl.edu
402-472-3373
EDEN Drought NEIL

Steve Cain
Disaster Specialist, Purdue

www.EDEN.lsu.edu
The NEIL is providing educational and communication leadership by addressing issues such as:

• National Disaster Recovery Framework
• *Community Capacity-Building Program for Drought Response*
• Food Costs/Impact Low Income Families
• Behavioral Health/Domestic Abuse/Substance Abuse Issues
• Water Quantity and Quality
• Water Rights
• Job Retraining
• Tree and Landscape Issues
• Farm and Ranch Economic Issues
• Crops (disease/feed)
• Forestry (wetlands, homeowners, private/commercial, urban)
2013: EDEN has posted materials for conducting the Community Capacity Building Program for Drought Response. This program is designed for leaders who want to bring a community together to assess drought impacts and explore actions to combat the drought. While this program can be used by any community leadership team, it is best used with the involvement of local Cooperative Extension Service and National Voluntary Organizations Active in Disaster leaders.

Go to the Drought Program page
View a 6-min Intro by Steve Cain (Adobe Connect)

__________

According to the National Oceanic and Atmospheric Administration, the 10 most severe droughts since 1980 have caused over $144 billion in damages, and current estimates are the 2012 drought will rank number one in anticipated financial loss with respect all disasters including previous droughts.
Program Area Drought Webinars

Archived Webinars

5/16/2013 Retail Food Price Outlook, 2013
11:00 AM USDA ERS economist Dr. Ricky Volpe discussed recent trends in retail food prices, including increased volatility and sustained inflation for meat prices. The outlook was highlighted, paying attention to the impacts of the 2012 drought as well as current weather conditions and other factors such as energy prices and the international market.

11:00 AM The New Cumulative Forage Reduction (CFR) Index: Assessing Drought Impacts and Planning a Grazing Strategy
Pat Reece, owner/senior consultant of Prairie Montane Enterprises and Professor Emeritus of the University of Nebraska - Lincoln
Pre-registration required. http://go.unl.edu/uwk

3/27/2013 NACO - From the County Up: Toward a 2030 Vision of Disaster Resilience
2:00 PM EST Join NACo First Vice President Linda Langston and the National Academy of Sciences for a thought provoking session about disaster resilience as a national imperative. From managing risk to making investments to measuring progress, it takes a village to mitigate, prepare for, respond to and rebuild after a disaster. Learn about the findings and recommendations of a new Academy report that places local action at the center of a vision for a disaster resilient nation by 2030.
Register here click.
California Institute for Water Resources (CIWR):  
http://ciwr.ucanr.edu/

California Drought Resources:  
http://ciwr.ucanr.edu/California_Drought_Expertise/

List of our UC drought experts:  
http://ciwr.ucanr.edu/California_Drought_Expertise/Drought_experts/
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