BUSINESS MEETING

1) Agenda topic Call Meeting to Order | Presenter John Beard

2) Agenda topic Approval of Minutes 11/9/17 meeting | Presenter John Beard
   Discussion:
<table>
<thead>
<tr>
<th>Action items</th>
<th>Motion</th>
<th>Second</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approve Minutes from 11/9/2017 meeting</td>
<td>Andy Carlson</td>
<td>Jan McGovern</td>
</tr>
</tbody>
</table>

3) Agenda topic Set Next Meeting Time/Date and Adjourn Business Meeting | Presenter John Beard
   Discussion:
<table>
<thead>
<tr>
<th>Action items</th>
<th>Motion</th>
<th>Second</th>
</tr>
</thead>
<tbody>
<tr>
<td>Next Meeting: June 7th at 5:00 PM at Decorah City Council</td>
<td>Mark Jensen</td>
<td>Andy Carlson</td>
</tr>
</tbody>
</table>

Presentations:

Update from Iowa Flood Center:
   • Antonio Arenas – Using FEMA data to assess flooding in Iowa

Update from Northeast Iowa RC&D:
   • Upper Iowa River Watershed Plan Development Update

Upper Iowa River WMA Coordinator Update:
   • Matt Frana - UIR Project Coordinator Update
A vision for a more resilient Iowa

The Iowa Watershed Approach

Antonio Arenas
Assistant Research Engineer
antonio-arenasamado@uiowa.edu
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The Iowa Watershed Approach

Flood-related FEMA Disaster Declarations 1988-2016

Declarations
- 0 - 5
- 6 - 10
- 11 - 15
- Above 15

1. Texas 1765
2. Missouri 1347
3. Kentucky 1242
4. **Iowa** 951
5. Virginia 948
6. Louisiana 889
7. North Carolina 824
8. Tennessee 787
9. Florida 762
10. Oklahoma 736

Raw data source: https://www.fema.gov/
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Flood-related FEMA Disaster Declarations 1988-2016

Counties with the highest number of disasters per square mile

Counties in Iowa: 9

Top 15%

Raw data source: https://www.fema.gov/
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Flood-related FEMA Disaster Declarations 1988-2016

Counties with the highest number of disasters per square mile

Counties in Iowa: 49

Raw data source: https://www.fema.gov/
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Flood-related FEMA Disaster Declarations 1988-2016

Counties with the highest number of disasters per square mile

Counties in Iowa: 79

Top 45%

Raw data source: https://www.fema.gov/
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Flood-related FEMA Disaster Declarations 1988-2016

Total: 951

Declarations
- 4 - 8
- 9 - 12
- 13 - 17

Raw data source: https://www.fema.gov/
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Flood-related Disaster Declarations in Iowa

1993 (114)

2005 (99)*

2008 (85)

Raw data source: https://www.fema.gov/
FEMA provides supplemental Federal disaster grant assistance for debris removal, emergency protective measures, and the repair, replacement, or restoration of disaster-damaged, publicly owned facilities and the facilities of certain Private Non-Profit (PNP) organizations through the Public Assistance (PA) Program (CDFA Number 97.036).
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FEMA provides supplemental Federal disaster grant assistance for debris removal, emergency protective measures, and the repair, replacement, or restoration of disaster-damaged, publicly owned facilities and the facilities of certain Private Non-Profit (PNP) organizations through the Public Assistance (PA) Program (CDFA Number 97.036).

* Flood-related disasters

Raw data source: https://www.fema.gov/
Crop Indemnity Payment 1999-2016 (ADJ $2016)

<table>
<thead>
<tr>
<th>State</th>
<th>Flood</th>
<th>Drought</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Dakota</td>
<td>6.4</td>
<td>1.5</td>
<td>9.5</td>
</tr>
<tr>
<td>Minnesota</td>
<td>2.9</td>
<td>1.5</td>
<td>5.4</td>
</tr>
<tr>
<td>Iowa</td>
<td>2.7</td>
<td>3.7</td>
<td>7.0</td>
</tr>
<tr>
<td>South Dakota</td>
<td>2.1</td>
<td>2.9</td>
<td>6.0</td>
</tr>
<tr>
<td>Missouri</td>
<td>1.9</td>
<td>2.0</td>
<td>4.1</td>
</tr>
<tr>
<td>Illinois</td>
<td>1.9</td>
<td>4.0</td>
<td>6.1</td>
</tr>
<tr>
<td>Texas</td>
<td>1.4</td>
<td>7.3</td>
<td>13.1</td>
</tr>
</tbody>
</table>

*Flood/Billions

- < 0.5
- 0.5 - 1.0
- 1.0 - 5.0
- > 5.0

*Flood includes:
- Excess Moisture/Precipitation/Rain
- Hurricane/Tropical Depression

Raw data source: http://hvri.geog.sc.edu/SHELDUS/
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Crop Indemnity Payments (Adj. $2016)

Iowa. USDA Payments. Damage Description: *Excess Moisture/Precipitation/Rain*  
*Hurricane/Tropical Depression*

Total:  
$2.7 Billion

Raw data source: http://hvri.geog.sc.edu/SHELDUS/
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Total: $13.5 Billion

Millions of $:
- 10 - 20
- 20 - 50
- 50 - 100
- Above 100

Raw data source: http://hvri.geog.sc.edu/SHELDUS/

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Total: $4.1 Billion

Millions of $
- 8 - 20
- 20 - 50
- 50 - 100
- Above 100

Raw data source: http://hvri.geog.sc.edu/SHELDUS/
Direct Losses from Flooding in Iowa (Crop and Property)

- 1993 ($4.9 Billion)
- 2008 ($9.3 Billion)
- 2010 ($1.4 Billion)

Millions of Dollars (Adj. $2016)

Raw data source: http://hvri.geog.sc.edu/SHELDUS/
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Iowa Flood Center
The University of Iowa
100 C. Maxwell Stanley Hydraulics Laboratory
Iowa City, IA 52242

319-384-1729
www.iowafloodcenter.org

Twitter Facebook
Public Open House Meetings

THE UPPER IOWA RIVER WATERSHED

Open House!
Check out the posters to learn more about...

The Watershed Itself

IOWA AS A MODEL FOR THE NATION

SHARE WHAT YOU VALUE AND ARE CONCERNED ABOUT.

Tell us what URBAN and RURAL flood reduction practices you want to see in the Upper Iowa River Watershed.

And tell us what you would do on your land!

Questions? Talk to Northeast Iowa RC&D Staff -- they're all wearing nametags!

Dorchester – November 14th
Decorah – November 27th
Cresco – November 28th

Northeast Iowa RC&D
Public Open House Meetings

Gather input:
What do people value in their watershed?
What are people concerned about?
What do watershed residents and landowners want to DO on their land & in their communities to increase resilience?
Public Open House Meetings: Dorchester
Public Open House Meetings: Dorchester
Public Open House Meetings: Decorah
Public Open House Meetings: Decorah

Northeast Iowa RC&D
Public Open House Meetings: Decorah
Public Open House Meetings: Cresco
Public Open House Meetings: Cresco
Canoe Creek Landowner Meeting with Seed Savers Exchange
Education & Outreach Plan

Organize outreach around proposed target audiences:

- Rural landowners and producers
- Urban community members and business owners
- Decision-makers and officials
- Youth and Students
Education & Outreach Plan

Coming Soon: RC&D Stormwater Demonstration & Education
Landowner Neighborhood Meetings

• Farmer-to-farmer connections
• Creative new ideas
• ...and we know folks are interested!

Education & Outreach Plan
And in other planning news...

- Emergency Response Meeting
  - hosted by Luther College
- Decorah Community Planning
- Flood Mitigation Planning
- Flood Forecasting & River Gauges

....and more!
Questions?

Ross Evelsizer, Watershed Planner
ross@northeastiowarcd.org

Megan Buckingham, Watershed Outreach Coordinator
megan@northeastiowarcd.org

Tori Hartman, GIS Analyst & Project Technician
tori@northeastiowarcd.org

Northeast Iowa RC&D
Project Coordinator Update

Matt Frana
February 15th 2018

Upper Iowa River
Watershed Management Authority
Project Progress

- **Road Structures:**
  - 3 sites surveyed by Winneshiek County Engineers. (4 total)

- **Private sites:**
  - 4 more sites surveyed (5 total).
  - 2 preliminary design/estimates completed.
**Project Progress**

- **Have been in contact with several interested landowners:**
  - Creating spreadsheet list and folders for potential participants locations
  - 10+ sites to check out once weather changes.

- **Technician Update:**
  - Interviews complete...offer made.

- **Additional practices in the works:**
  - Waterways and prairie strips
  - Waterways and improved farming direction
Figure 1: Priority Recommendations. Pink - Critical area to seed to grass; Numbers - erosion points; Green - waterways.
Figure 5: Current Farming Direction

Figure 6: Blue = Recommended Farming Direction; Black = Contour lines;
**Pink** - Waterways

**Green** - Prairie STRIPS
AGREN – Pond Builder

Information and Estimated Cost

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent pool surface area</td>
<td>1.79 ac</td>
</tr>
<tr>
<td>Maximum pool depth with no excavation</td>
<td>140 ft</td>
</tr>
<tr>
<td>Cost (includes all fill, pipe and excavation costs)</td>
<td>$54,993</td>
</tr>
</tbody>
</table>
Public Outreach

Cover Crop Field Day

AGENDA

JAKE GROTH
Winnesheik Co. Farmer

RICK CRUSE
ISU Agronomy Professor

NEIL SASS
NRCS, Area Agronomist

MATT FRANA
Upper Iowa Watershed

TUESDAY, NOVEMBER 21, 2017
12:30PM-2:30PM
Winnesheik Co. NRCS Office
2296 Oil Well Rd
Decorah, IA

Field Day is free, open to the public, and includes a complimentary meal
RSVP to 563-382-8777 ext 3 or Matt.Frana@ia.nacdnet.net

► Discussed soil conservation practices and the importance of soil health.

► **Presenter Jake Groth**
  
  ► Started transitioning to no-till in 2010 and cover crops 2012
  
  ► Trying a variety of cover crops and methods.
  
  ► Great job of presenting what he has done, what works, what doesn’t.
Public Outreach

- RC&D Upper Iowa River Watershed Open House Meetings:
  - Dorchester - 11/14/17
  - Decorah - 11/27/17
  - Cresco - 11/28/17
  - Seed Savers - 1/24/18
    - More info in newspaper about conservation practices

- Article in Winneshiek and Allamakee County SWCD newsletters
Future Plans:

- Iron out environmental review and cultural resources review process with current projects. Continue working towards completing projects.
- Present at Farm Bureau meeting – 3/12/18
- Continue to develop newsletter/webpage/Facebook page.

Questions?