

Upper Iowa River WMA Agenda

Meeting date/time: 9/12/2019 Business Meeting 5:00-5:20 PM Presentations 5:20

Meeting location: Winneshiek County Courthouse Annex building, 201 West Main St., Decorah.

BUSINESS MEETING

UIR-WMA board in attendance: Mark Jenson, John Beard, Jack Knight, and Dan Byrnes

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

Action items	Motion	Second
Call meeting to order.	MJ	JK

2) Agenda topic: Approval of Minutes 6.11.19 meeting | **Presenter:** John Beard

Discussion:

Action items	Motion	Second
Approve Minutes from 6/11/19 meeting	JK	DB

3) Agenda topic: Set Next Meeting Time/Date and Adjourn Business Meeting | **Presenter:** John Beard

Discussion:

Action items	Motion	Second
Meeting Date: 12.12.19 Location: Winn Co Courthouse Annex building .		
If upon the next scheduled UIR-WMA meeting no pressing action items need board approval or there aren't presentations of significant importance the board may decide to not have a physical meeting and just converse via email to approve minutes and schedule the next meeting date and time.		
	MJ	JK

Presentations:

1) Luther College - Center for Sustainable Communities:

- Rachel Brummel / Jon Jenson: Survey Results and Freeport Meeting

2) Upper Iowa River WMA Coordinator Update:

- Matt Frana – Project Update

Community Flood Resilience in the Upper Iowa Watershed

Rachel Brummel, Jon Jensen
September 12, 2019

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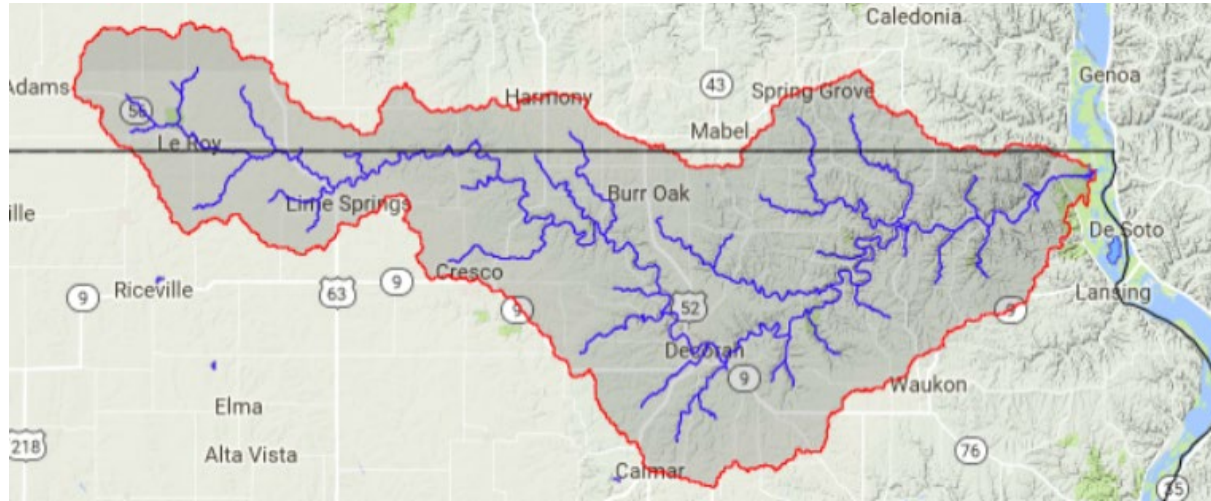
OUTLINE



Photo source: Iowa Watershed Approach

- Our Role - Community Flood Vulnerability & Resilience
- Methods & Preliminary Findings
 - Watershed-wide Survey
 - Freeport Community Meeting
- Questions

WATERSHED SURVEY:



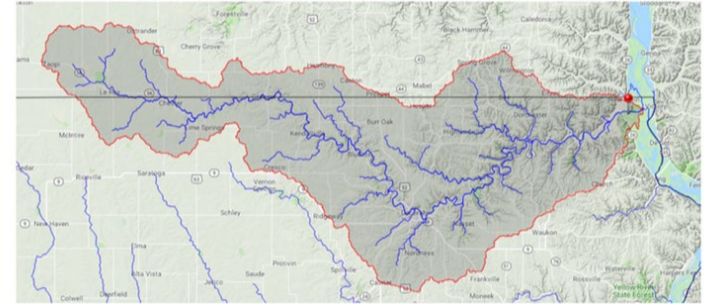
Financial & Displacement Burden Assessment

SURVEY GOALS:

BROADER UNDERSTANDING of FLOOD IMPACTS & RESPONSES

- Diversity of Flooding Experiences
- Indirect Impacts
 - Ex: Lost work, transportation, childcare
- Direct Impacts
 - Home & property, ag, belongings
- Displacement Particulars
- Adaptation → building resilience?
- Demographics: Vulnerabilities?

SURVEY OF RESIDENTS: **UNDERSTANDING FLOOD IMPACTS** **IN THE UPPER IOWA WATERSHED**



Map Source: Upper Iowa Watershed Approach

WHAT IS A WATERSHED?

A WATERSHED IS THE AREA OF LAND WHERE ALL OF THE WATER THAT FALLS WITHIN AND DRAINS OFF OF IT ENDS UP AT A COMMON OUTLET. EVERYONE WHO LIVES IN THE DARKENED AREA ABOVE LIVES IN THE UPPER IOWA WATERSHED.

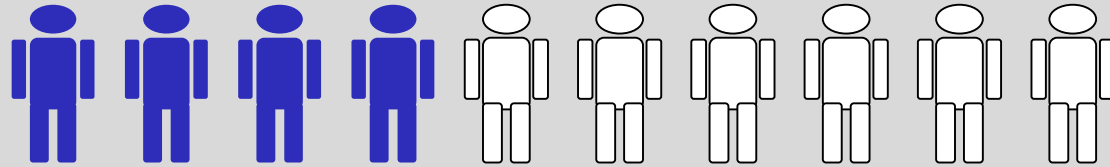
Survey Methods



- Address-based sampling: Random Sample of 2250 addresses
- Public Awareness newspaper & radio
- Response Rate = 21.5% returned, 470 useable surveys

WHO was flooded in 2016?

40% of people indicated their home or property had been flooded in some way.



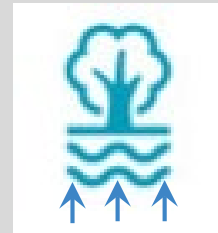
Flooding occurred in these households in different ways .



40% indicated rain as the primary source



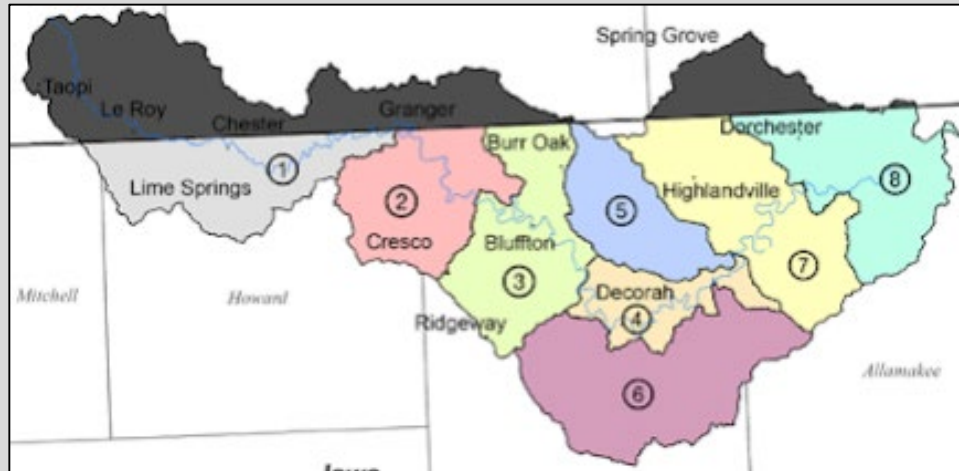
28% said overflowing rivers or creeks



20% said rising groundwater

WHO was flooded in 2016?

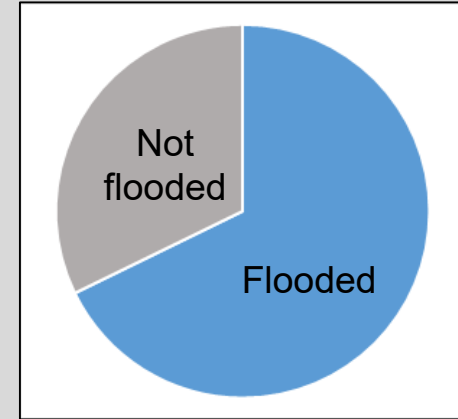
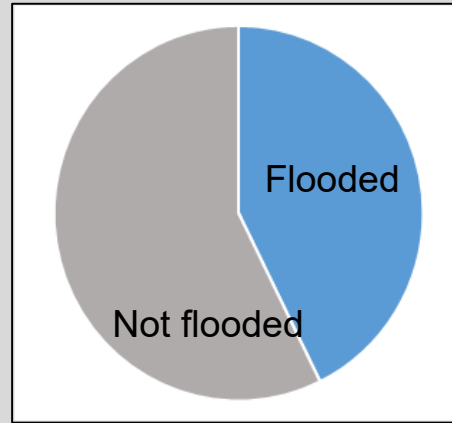
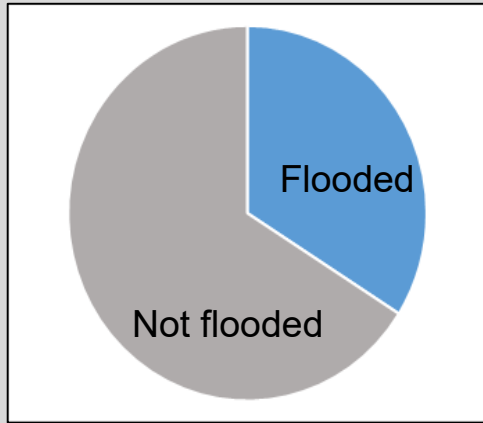
Homes & properties in **all regions of the watershed experienced flooding** , but those in the upper half of the watershed flooded at the highest rates.



- ▶ **53% of households upstream from Decorah indicated flooding (regions 1,2 3)**
- ▶ **35% of properties in Decorah & Freeport indicated flooding (region 4)**
- ▶ **47% of households the lower portion of the watershed (excluding Decorah) indicated flooding. (regions 5,6,7,8)**

WHO was flooded in 2016?

Rural households , and those respondents indicating farmland in particular, flooded at the highest rates .



34% of households in town indicated flooding

47% of rural households indicated flooding

61% of properties with farmland flooded

HOW were those that were flooded IMPACTED?

Indicating Flood Damage:

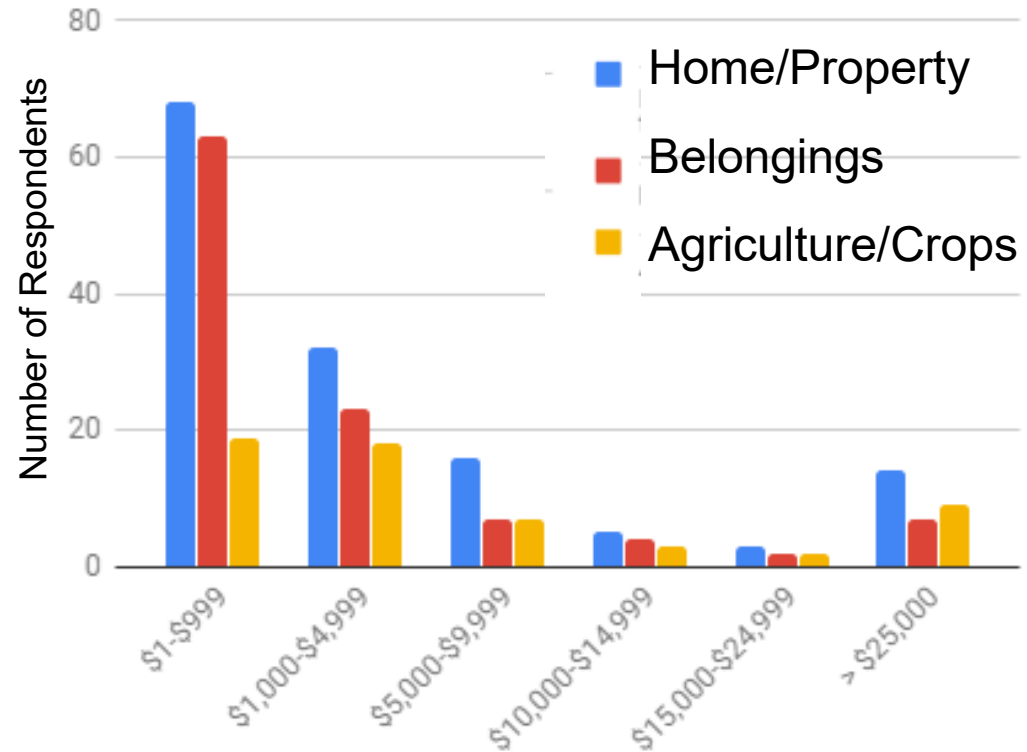
Home/Property- 29%

Belongings - 22%

Agriculture/Crops - 12%



Estimated Costs of Direct Damage



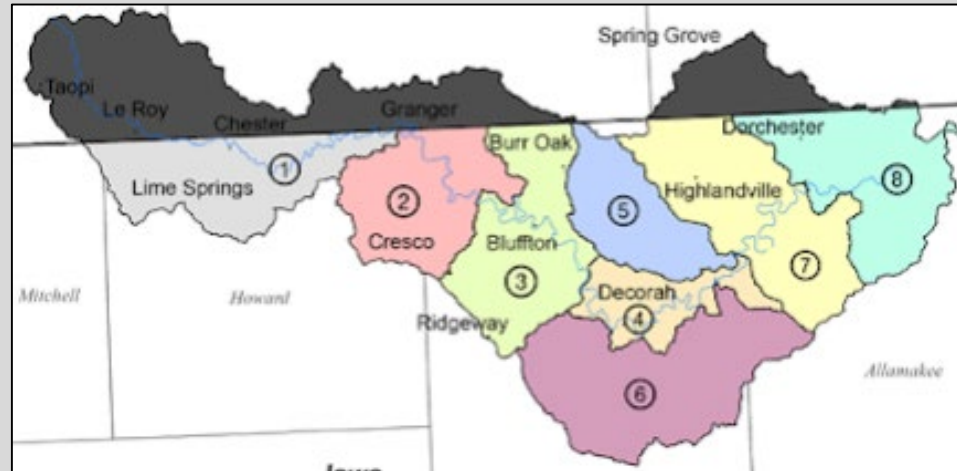
HOW were those that were flooded IMPACTED?

These damages **represent significant economic impacts** for households in the UIR watershed.

Type of Flood Damage	Average Damage per Flood - affected Household
Home or Property	\$3713.51
Belongings	\$2116.22
Agriculture/Crops	\$2200.00
<i>Combined Damage</i>	<i>\$8029.73</i>

HOW were those that were flooded IMPACTED?

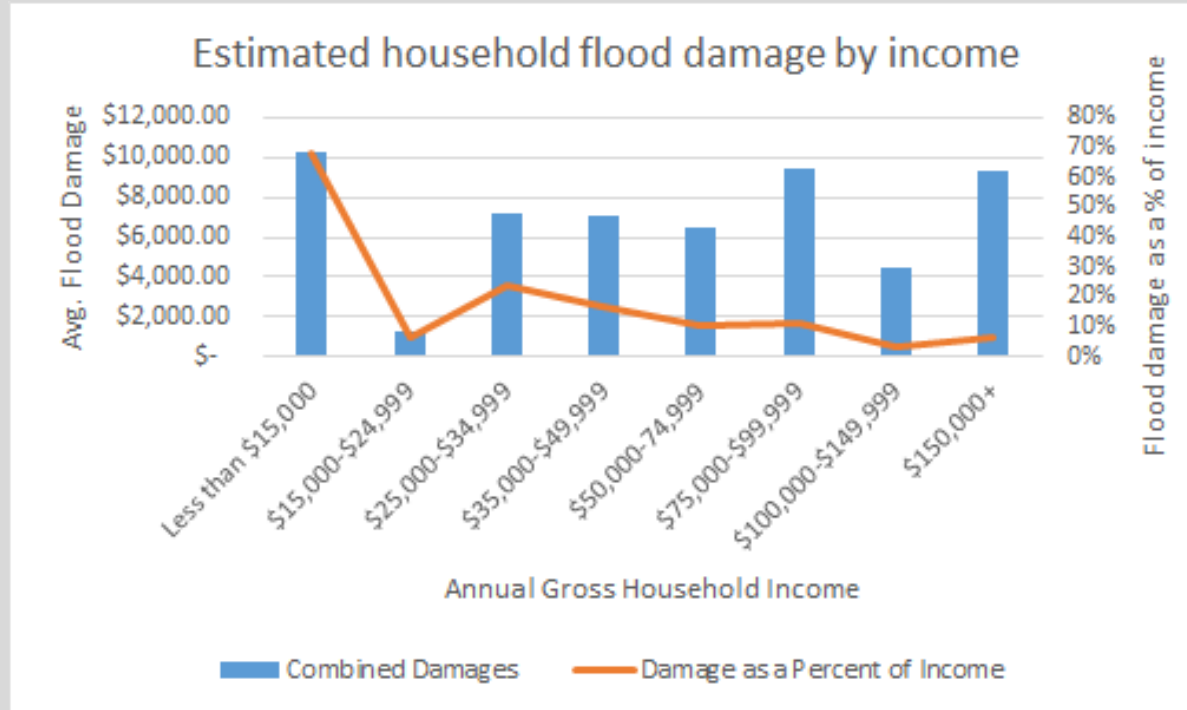
Total flood damages to households in the UIR watershed could range from an estimated **\$15.8 million to \$21.1 million in damages*** to home/property, belongings, and agriculture/crops.



** assuming a 25-35% rate of household flooding watershed wide*

HOW were those that were flooded IMPACTED?

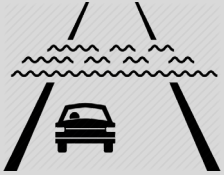
The estimated economic impact of flood damages, however, are not even across income brackets.



HOW was the BROADER COMMUNITY impacted?

The 2016 floods affected the daily activities of residents of the UIR, even if their homes didn't have water in them.

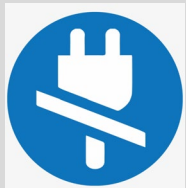
- 44% of survey respondents indicated indirect effects of flooding



27% of respondents indicated that they had to drive alternate routes due to flooding.

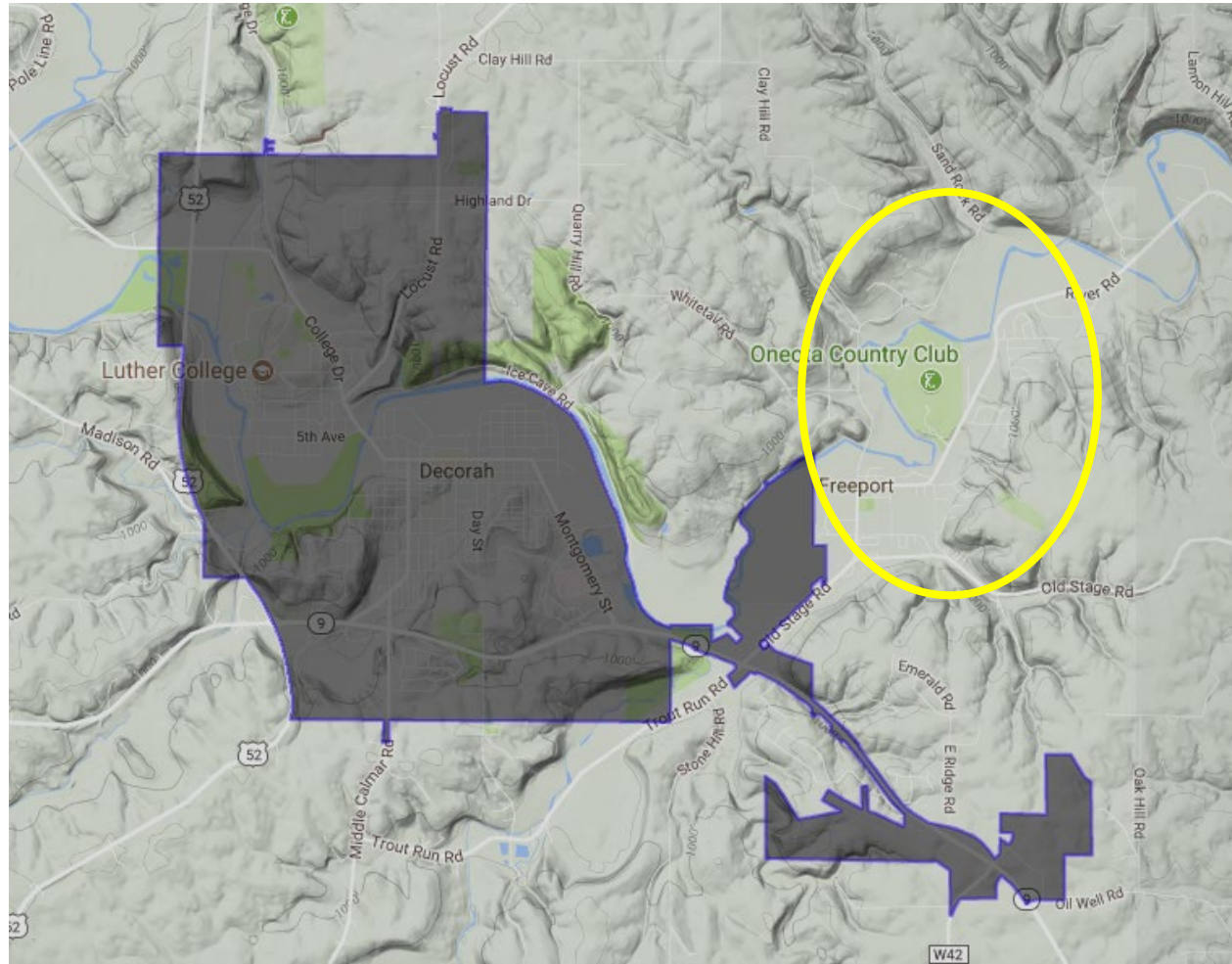


11% of respondents missed work. Many indicated that they volunteered to help others.



11% of respondents indicated a loss of utilities, most commonly power.

UIR Watershed Case Study: Freeport



Freeport Community Meeting - July 16

- 75 people - Freeport Park
- Survey and Interview Results
- Brief presentations by partners
- Community Input



Freeport Community Meeting - Feedback

- Concerns over recent flooding of bike trail and yards
- Questions for Emergency Mgmt and County Engineer
- Interest in strengthening community networks
- Follow up meeting of community leaders - Aug 30



Suggestions to enhance Community Resilience?

- What can be done at a **community level** to complement the work that is happening to slow down water on the land?
- What have you **heard from residents** of the watershed about ways to enhance Community Resilience to future flooding?
- Are there additional steps that could/should be taken to **educate and prepare the public for the next flood** in the watershed?

QUESTIONS?

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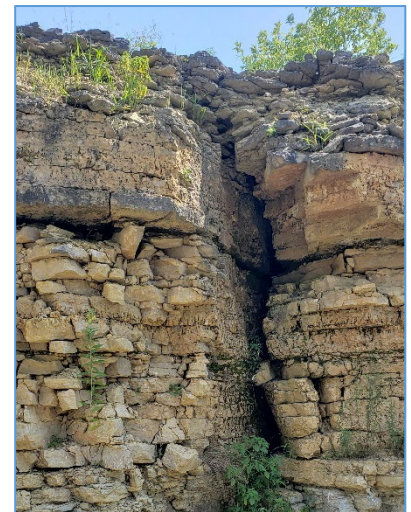
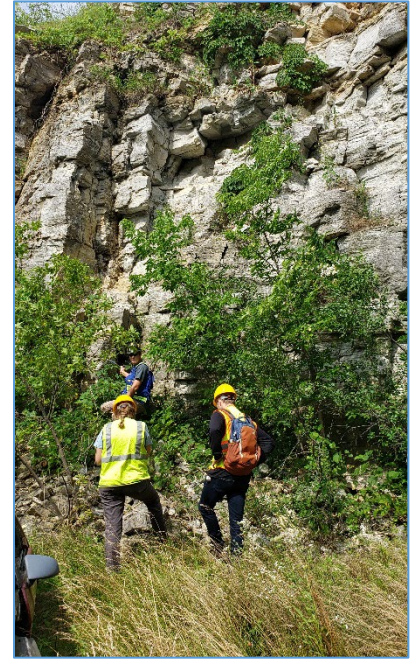




Upper Iowa River Project Update (9/12/19)

Project Coordinator: Matt Frana

- **Iowa Geological Survey Contracted**
 - Came up 7/26/19
 - Checked out quarries and rock outcrops around project area to better visualize the bedrock below the project sites.
 - Planning on coming up 10/2 – 10/4 to conduct ERI analysis on 3 road project sites.
- **Soils Investigations** by Shive-Hattery's contracted geotechnical crew (ABE) on 4 project sites (3 road, 1 private) in June.
- **Shive-Hattery** came up for site visits (8/6/19)
 - 4 road projects
 - 1 private project
 - Lining up soil investigation for addition sites this fall.
- **Held Contractor Meeting (8/8/19)**
- **Working with Iowa Department of Ag and Land Stewardship (IDALS)** to assist with cost-share on nutrient reduction wetlands.
 - Currently working on a wetland in Ten-Mile, that IDALS believes they can cover the landowner's 10% contribution...so no cost to landowner.
 - Have noticed other locations in this watershed that would be good sites to target.
- **Water & Air Task Group for the Decorah Sustainability Plan (Sept)**
 - Asked to be part of task group creating a list of goals, actions, and measurables to address water and air concerns for Decorah.
- **Bid packet being created**, so when Tier2 comes back we can get the bid letting posted as soon as possible.
 - 2 landowner projects
 - A sediment basin and 2 waterways
 - 1 pond
 - Had to temporary drop 1 project from packet because of a potential wetland concern to allow for public comment.



Matthew Frana

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