

**2015 Iowa STEM Summit**  
**March 30, 2015**  
**(Session: Northeast STEM Region)**

Notes from the session:

1. A major percentage of the discussion time was spent discussing STEM festivals in the northeast.
  - Attendees felt the STEM festivals are a good idea to continue because they reach out to a large number of people.
  - The events allow teachers the opportunity to see programs they don't usually see and to collect ideas.
  - A suggestion was made to consider a STEM festival focused toward high school age kids.
2. Explore working with local libraries.
3. Would like to see more professional development opportunities, in particular, with educators that have received scale-up awards.
  - One idea was to have educators network face-to-face with other educators that have implemented specific scale-up programs. Allow for the opportunity for educators to share best practices.

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# Greatness STEMs from Hands-On Learning

Northeast Iowa Region Governor's STEM Advisory Council

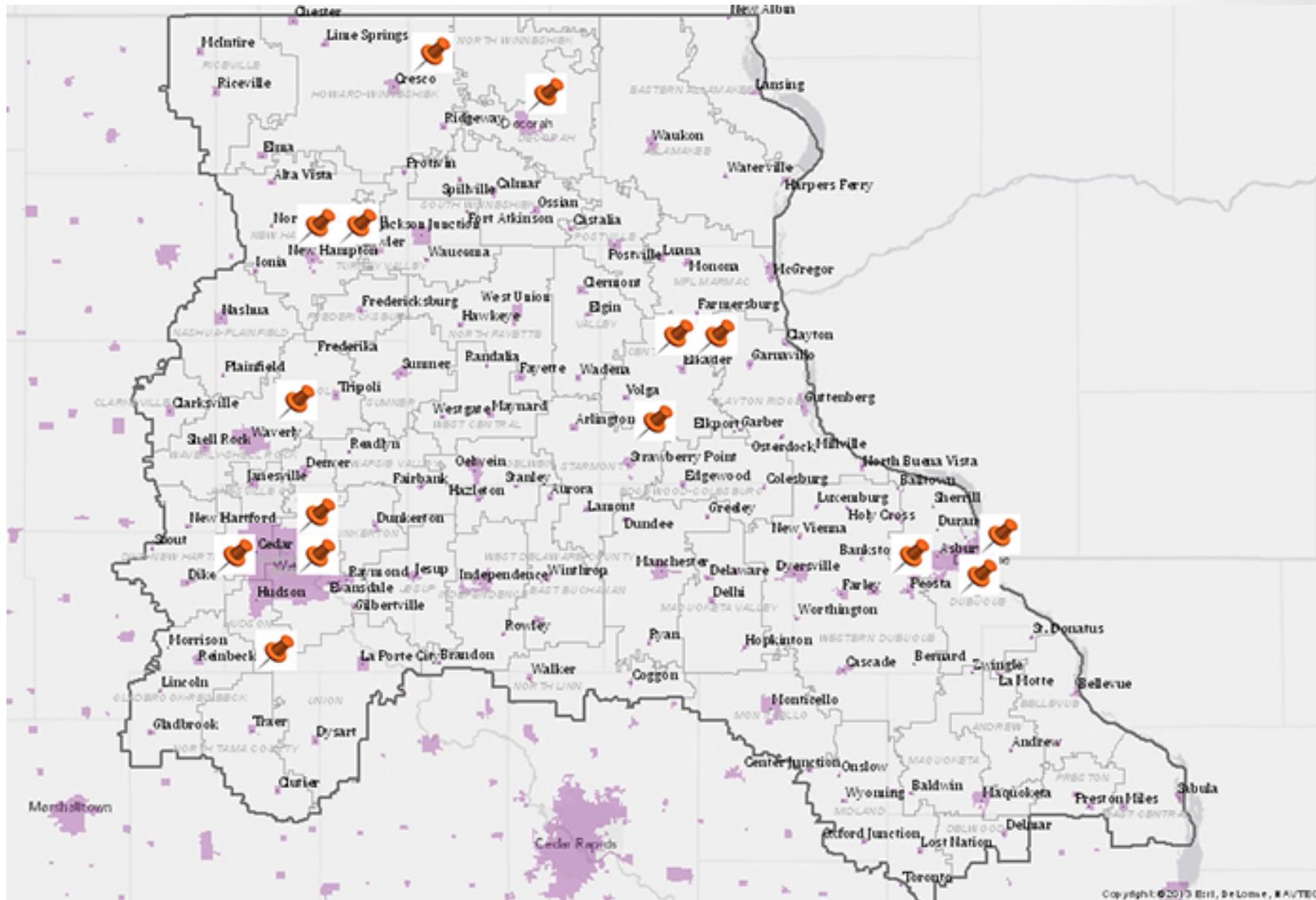
# Regional network of six hubs



1. **Northwest Hub** – Iowa Lakes Community College
2. **North Central Hub** – Iowa State University
3. **Northeast Hub** – University of Northern Iowa
4. **Southwest Hub** – Southwestern Community College
5. **South Central Hub** – Drake University
6. **Southeast Hub** – University of Iowa & Kirkwood Community College

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# Northeast Advisory Board (15 members)



# Northeast Advisory Board (15 members)

- Chad Heinzl, University of Northern Iowa (Chair)
- Kelly Cooper, Dubuque Area Labor and Management Council (Vice-Chair)
- Jane Bradley, Hawkeye Community College
- James Brown, Jr., John Deere Power Systems
- Kendra Crooks, Chickasaw County Extension and Outreach
- Steve Denmuth, Mayo Clinic
- Lisa Digman, Northeast Iowa Community College
- Scott Fortune, Upper Iowa Tool and Die and Innovations
- Scott Greenhalgh, University of Northern Iowa
- Ellen Heuer, Bay Valley Foods
- Mason Kuhn, Waverly-Shell Rock Community School District
- Jason Martin-Hiner, Keystone AEA
- Marcia Powell, Iowa Online Learning
- Norma Thiese, Keystone AEA
- Mark Wagner, National Mississippi River Museum

# Northeast Advisory Board (Meetings)

- August 28 – Oelwein
- October 30 – Dubuque
- December 11 – Conference Call
- January 29 – Conference Call
- March 23 – Cedar Falls
- May 19 - Calmar



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# STEM Scale-Up Programs

The Iowa STEM Scale-Up Program was launched as a way to meet the Governor's STEM Advisory Council's top priority: Increasing student interest and achievement in STEM across the state.

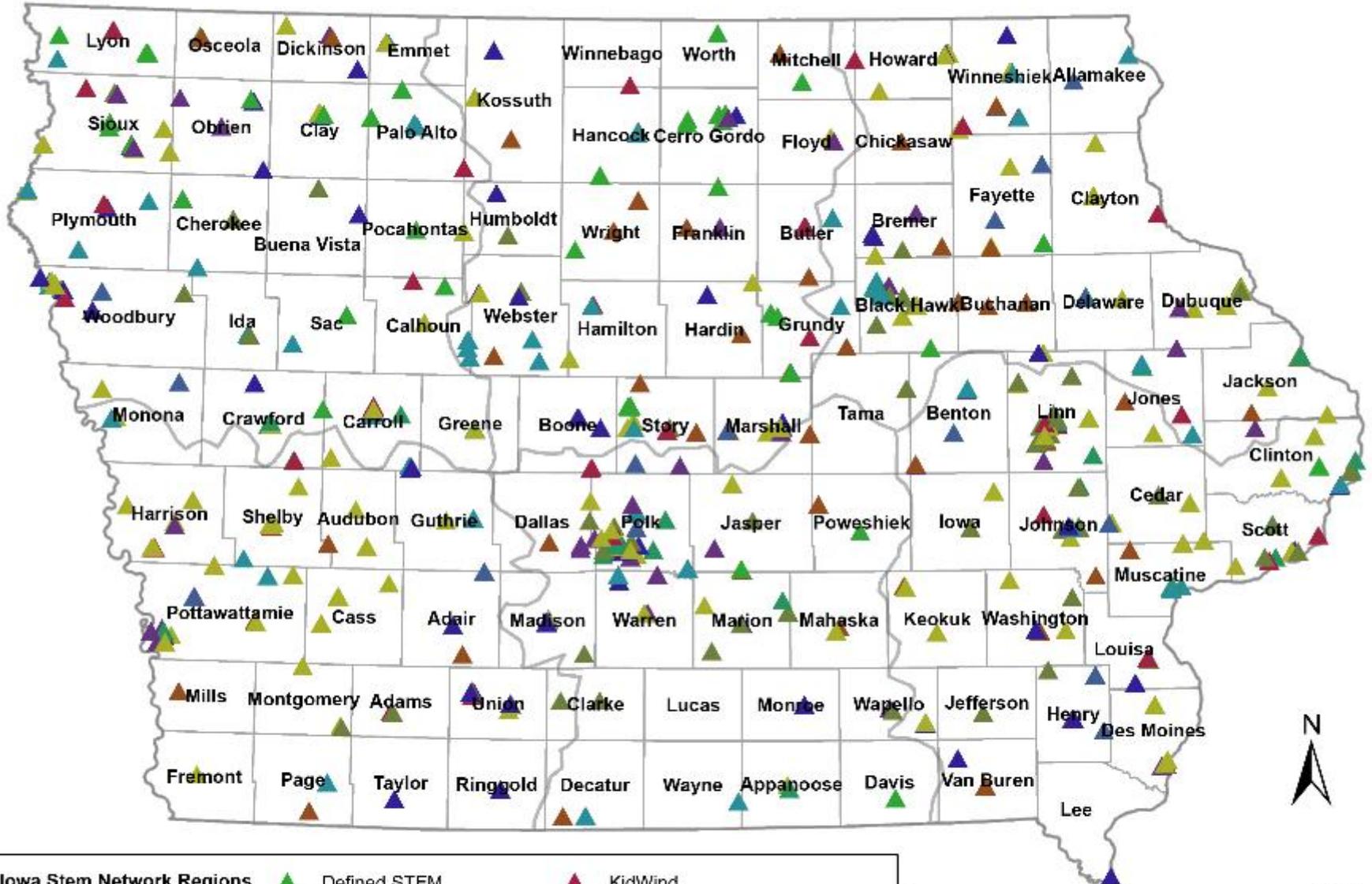
- These Scale-Ups are offered to schools (public and nonpublic), after-school programs and other active learning communities serving students in grades preK-12.
- In 2014-2015, the Northeast region awarded programs to 166 educators.

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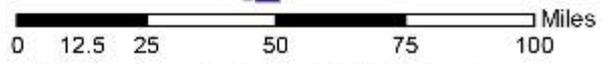
### SCALE-UP Awards

Organization	City	County	2012 -2013	2013 - 2014	2014-2015
<b>Public School Districts</b>					
Allamakee Community School District	Waukon	Allamakee	FLL / PEERS	PLTW GTT	PLTW POE
Andrew Community School District	Andrew	Jackson	AWIM / CASE	Defined STEM	PSS
Bellevue Community School District	Bellevue	Jackson		CASE	FTC
Cedar Falls Community School District	Cedar Falls	Black Hawk	FLL / FREE	AWIM / Defined STEM / Hyperstream	PLTW POE / PLTW GTT / FTC / AWIM
Central Community School District	Elkader	Clayton	KidWind / Hyperstream	AWIM	PSS / KidWind / Hyperstream / FTC / Defined STEM / AWIM
Clarksville Community School District	Clarksville	Butler			AWIM
Clayton Ridge Community School District	Guttenberg	Clayton	CASE	PLTW GTT	KidWind
Decorah Community School District	Decorah	Winneshiek	KidWind / CASE / FREE	AWIM / CASE	PLTW POE / FTC / AWIM
Delwood Community Schools	Delmar	Clinton			
Denver Community School District	Denver	Bremer			FTC
Dike-New Hartford Community School District	Dike	Grundy		Defined STEM	AWIM
Dubuque Community School District	Dubuque	Dubuque	FLL / AWIM	Carolina	PSS / KidWind
Dunkerton Community School District	Dunkerton	Black Hawk			
East Buchanan Community School District	Winthrop	Buchanan	FLL / PEERS / CASE / FREE	Carolina / Defined STEM / PLTW GTT	CASE / KidWind / FTC / AWIM
Eastern Allamakee Community School District	Lansing	Allamakee		PLTW GTT	AWIM
Easton Valley Community School District	Preston	Jackson	FLL	Carolina / Defined STEM	PSS
Edgewood-Colesburg Community School District	Edgewood	Delaware			
Gladbrook-Reinbeck Community School District	Reinbeck	Grundy	CASE	CASE	CASE
Howard-Winneshiek Community School District	Cresco	Howard	FLL / KidWind / Hyperstream / AWIM / CASE / FREE / SSTF	AWIM / EIE / PLTW GTT	PLTW POE / PSS / KidWind / Hyperstream
Hudson Community School District	Hudson	Black Hawk	FLL		FTC
Independence Community School District	Independence	Buchanan	FREE	CASE	CASE
Janesville Consolidated Schools	Janesville	Bremer		AWIM / Carolina / EIE	PSS
Jesup Community School District	Jesup	Buchanan	FREE	AWIM	CASE
Maquoketa Community School District	Maquoketa	Jackson		Carolina	CASE
Maquoketa Valley Community School District	Delhi	Delaware	CASE	PLTW GTT	PSS
MFL MarMac Community School District	Monona	Clayton		CASE	PSS
Midland Community School District	Wyoming	Jones	FLL	AWIM / Carolina	KidWind / EIE / AWIM
Monticello Community School District	Monticello	Jones	CSI	Camp in a Can / Hyperstream	PLTW GTT / PSS / AWIM
Nashua-Plainfield Community School District	Nashua	Chickasaw	CASE	CASE / PLTW GTT	
New Hampton Community School District	New Hampton	Chickasaw	PEERS / CASE	Carolina / CASE	CASE
North Fayette Community School District	West Union	Fayette	AWIM		PLTW POE / PLTW GTT / PSS
North Tama County Community School District	Traer	Tama	CASE / FREE		
North Winneshiek Community School District	Decorah	Winneshiek	FLL / FREE		EIE
Oelwein Community School District	Oelwein	Fayette	CASE / FREE	AWIM / Camp in a Can / Carolina / CASE / EIE /	CASE / PSS
Postville Community School District	Postville	Allamakee			

# 2014-15 STEM Scale-up Programs of the Governor's STEM Advisory Council



Iowa Stem Network Regions		
	Defined STEM	
	Engineering is Elementary	
	A World in Motion	
	CASE	
	FIRST Tech Challenge	
	HyperStream	
	PLTW - Gateway to Technology	
	PLTW - Principles of Engineering	
	Pint Size Science	



Map produced by the GeoTREE Center in the UNI Geography Department on August 8, 2014. Data provided by the Iowa Governor's STEM Advisory Council.

NORTHEAST IOWA



# FAMILY STEM FESTIVAL

SCIENCE | TECHNOLOGY | ENGINEERING | MATHEMATICS



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# Exhibitors

- University of Northern Iowa
- Hawkeye Community College
- Wartburg College
- Kaplan University
- Allen College
- Upper Iowa University
- Iowa State University
- University of Iowa
- Luther College
- Northeast Iowa Community College
- Loras College
- Clarke University
- University of Dubuque
- University of Wisconsin-Platteville
- Surrounding school districts showcased their projects as well (Robotics...)



- John Deere
- Rockwell Collins
- Viking Pump
- Cedar Valley Alliance
- Con Agra
- Keystone AEA
- ISU Extension 4-H
- IPTV
- HY-VEE
- KWWL
- Lowes

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# 2014-2015 STEM FESTIVALS

Family STEM Festivals bring together community leaders, educators, businesses, and universities to spark student and parent interest with hands on learning.



We have five family STEM Festivals in the Northeast Region

- Black Hawk County
- Cedar Valley
- Tama County - **March 22**  
1:00 PM – 4:00 PM @ South Tama County Elementary
- Dubuque – **April 18**  
10:00 AM – 2:00 PM @ Clarke University
- Calmar – **April 30**  
4:00 PM – 7:00 PM @ NICC Wilder Business Center

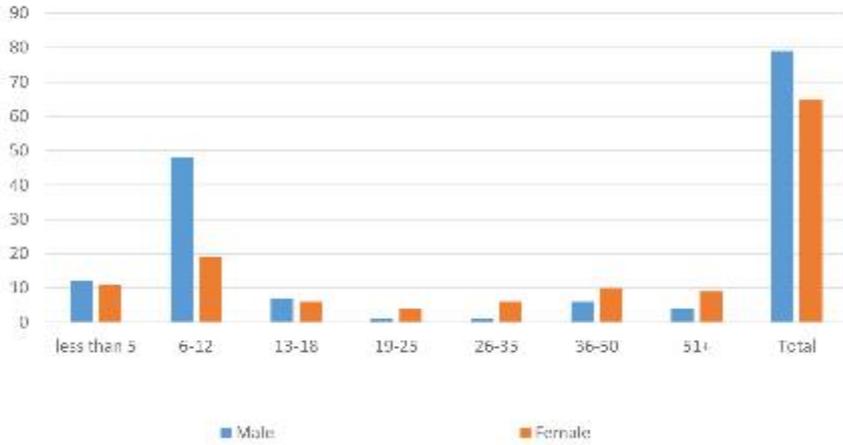
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# 2014 -2015 STEM FESTIVALS

Date	Venue Location/Audience	Festival Partners (financial cost-share and in-kind contributions)
7/25/2014	<u>Black Hawk County STEM Festival</u> July 25, 2014, 1 PM – 4 PM at the Cattle Congress fair grounds in Estel Hall Total: 183 Kids: 106 Adults: 77 Exhibitors Count: 13	NE Iowa Regional STEM Hub and Black Hawk County Extension Office
11/13/2014	<u>Cedar Valley Family STEM Festival</u> November 13, 2014, 4 PM - 7:30 PM at the Five Sullivan Center Total: 3,181 Kids: 1,825 Adults: 1,338 Exhibitors Count: 77 Specialty Shows: 3	NE Iowa Regional STEM Hub, Waterloo Community Schools, Cedar Falls Community School District, John Deere, Hawkeye Community College, Greater Cedar Valley Alliance and Chamber, Grout Museum District, Ramada Hotel and Convention Center, Volunteer Center of Cedar Valley, Black Hawk County Extension

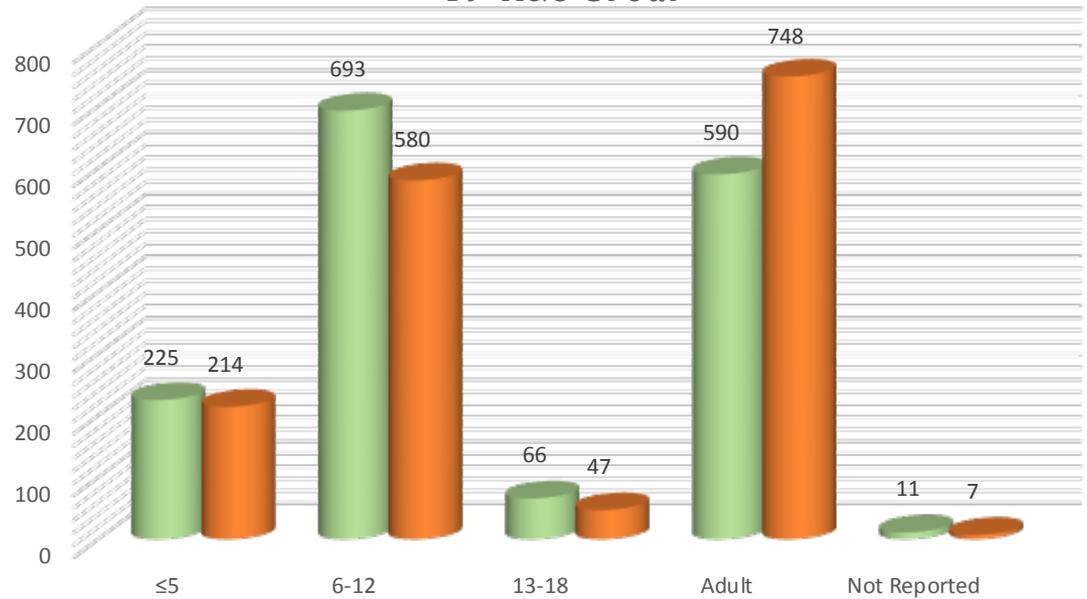


Age Breakdown by gender



N=144

Number of Female and Male Attendees by Age Group



Total Reporting = 3,181

■ Number of Male Attendees

■ Number of Female Attendees

# Keeping Informed



Facebook: <https://www.facebook.com/NEIASTEM>



Twitter: [https://twitter.com/NE\\_IA\\_STEM](https://twitter.com/NE_IA_STEM)



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Presentations

Boards and Committees

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UNIVERSITY OF NORTHERN IOWA

NORTHEAST IOWA REGION GOVERNOR'S STEM ADVISORY COUNCIL



 **Stay Informed!**

OUR REGION

SCALE-UP PROGRAMS

STEM FESTIVALS

EVENTS

ADVISORY BOARD

RESOURCES



A regional  
partnership for  
today's students  
and tomorrow's  
workforce.



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**NORTHEAST IOWA REGION GOVERNOR'S STEM ADVISORY COUNCIL**

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# Introductions - Networking

- Name
  - Organization
  - Role
- 
- What is going well as it relates to the NE Hub?
  - What do you want more of?
  - What is missing? What/who/where is the solution?
  - Other discussion ideas?