

## High School

### Grand Awards

1 <sup>st</sup> Place	Madison Wiegand Mackenzie Wiegand	Silver Nanoparticle and UV Filtration System	Simms High School
2 <sup>nd</sup> Place	Jeena Alborano	Effectiveness of Iron Oxide Nanoparticles	North Toole County High School
3 <sup>rd</sup> Place	Cody Hanson Lane Lerum	Remediation of Anabaena flos-aquae in an Aqua	North Toole County High School
4 <sup>th</sup> Place	Kjatlynn Cullen	The Effect of Solvents on Blood Detection	North Toole County High School
5 <sup>th</sup> Place	Lilly Woodhouse	Influenza Vaccine Comparison From 2000 - 2011	Simms High School
6 <sup>th</sup> Place	Grace Davison Julia Vogt Elyse Adams	Eye Witness Testimony	Belt High School

## Special Awards

### American Meteorological Society

*Outstanding Achievement for creative scientific endeavor in the areas of atmospheric and related oceanic and hydrologic sciences.*

Randi Hart	A Calf is Brewin'	Simms High School
------------	-------------------	-------------------

### American Psychological Association

*Outstanding research in psychological science under the category of behavioral and social sciences or any category related to psychology (e.g., animal sciences, biochemistry, computer science, environmental science, mathematical science, medicine and health).*

Julia Vogt Elyse Adams Grace Davison	Eye Witness Testimony	Belt High School
--	-----------------------	------------------

### Association for Women Geoscientists

*Open to female students whose projects, in the opinion of the judges, exemplify high standards of innovativeness and scientific excellence in the geosciences.*

Jeena Alborano	Effectiveness of Iron Oxide Nanoparticles	North Toole County High School
----------------	---	--------------------------------

### Citizens for Clean Energy

*The Great Falls-based Citizens for Clean Energy organization (CCE) recognize science fair projects that address clean renewable energy, environmental protection, resource conservation or ecosystem restoration.*

1 <sup>st</sup> Place	Lane Lerum Cody Hanson	Remediation of Anabaena flos-aquae in an Aqua	North Toole County High School
2 <sup>nd</sup> Place	Jaden Koon	The Blue "Green" Battery	North Toole County High School
3 <sup>rd</sup> Place	Alexandra Dixon	Research on Winglets	Foothills Community Christian School

### Intel Excellence in Computer Science

*Intel supports science fairs around the world because they recognize the importance of developing the talents of our most promising young minds.*

William Franzen	Ultimate Battle of the Keyboard Layouts	Belt High School
-----------------	---	------------------

### Mu Alpha Theta

The Mu Alpha Theta Award is for the individual or group project that demonstrates the most challenging, original, thorough, and creative investigation of a problem involving mathematics accessible to a high school student.

Jaden Koon	The Blue "Green" Battery	North Toole County High School
------------	--------------------------	--------------------------------

### NASA Earth System Science

The NASA Earth System Science Award will be given to the project that best demonstrates insight into Earth's interconnected systems.

Coralee Bock Matthew Connelly	Out of the Box Agriculture	Valier High School
----------------------------------	----------------------------	--------------------

### National Oceanic and Atmospheric Administration (NOAA)

Awarded to the student whose research emphasizes NOAA's mission of Science, Service, and Stewardship: "To understand and predict changes in climate, weather, oceans, and coasts, To share that knowledge and information with others, and To conserve and manage coastal and marine ecosystems and resources."

Morgan Davis	Synthetic v. Natural Dyes	Fergus High School
--------------	---------------------------	--------------------

### Office of Naval Research

The Office of Naval Research (ONR) is committed to supporting science, technology, engineering, and mathematics (STEM) initiatives and programs for our nation's young people. On behalf of the U.S. Navy and U.S. Marine Corps, the ONR is pleased to support regional and state Science and Engineering Fairs.

Jeena Alborano	Effectiveness of Iron Oxide Nanoparticles	North Toole County High School
Kjatlynn Cullen	The Effect of Solvents on Blood Detection	North Toole County High School

### RICOH USA

Awarded to the student demonstrating outstanding efforts in addressing issues of environmental responsibility and sustainable development in his/her science and engineering project.

Morgan Davis	Synthetic v. Natural Dyes	Fergus High School
--------------	---------------------------	--------------------

### Society of American Military Engineers (SAME) Awards

Kantor Pogreba	Does Water Flow	Conrad High School
Michael Leach Vincent Offerdahl	Comparison of PEF and FEV1 of HS Athletes	Simms High School
Jaden Koon	The Blue "Green" Battery	North Toole County High School
Randi Hart	A Calf is Brewin'	Simms High School
*Cody Hanson *Lane Lerum	Remediation of Anabaena flos-aquae in an Aqua	North Toole County High School

\*Grand Award Winner

### Stockholm Junior Water Prize

The Stockholm Junior Water Prize (SJWP) recognizes outstanding water-related research at the high-school level.

Madison Wiegand Mackenzie Wiegand	Silver Nanoparticle and UV Filtration System	Simms High School
Cody Hanson Lane Lerum	Remediation of Anabaena flos-aquae in an Aqua	North Toole County High School
Tomi Calf Robe	Nitrate Runoff based on Slope	Valier High School

Abigail Bock		
--------------	--	--

### **U.S. Air Force**

*The Air Force Research Laboratory is proud to support Science, Technology, Engineering, and Mathematics (STEM) initiatives for our nations' youth.*

Danielle Horan	Beverages Affecting Daphia Heart Rate	Moore High School
Jaden Koon	The Blue "Green" Battery	North Toole County High School
Draylen Sawyer Jessi McKinley	Trick the Thinker	Simms High School

### **U.S. Metric Association**

Jaden Koon	The Blue "Green" Battery	North Toole County High School
------------	--------------------------	--------------------------------

### **Yale Science & Engineering Association**

*Awarded to the most outstanding 11th grade project exhibiting in the areas of Computer Science, Engineering, Physics or Chemistry, though in extraordinary cases it may be awarded to a 10<sup>th</sup> or 12<sup>th</sup> grade project.*

Madison Wiegand Mackenzie Wiegand	Silver Nanoparticle and UV Filtration System	Simms High School
--------------------------------------	--	-------------------