

## High School

### Grand Awards

1 <sup>st</sup> Place	Kodiann Lynn Cassandra Olson	Microbial Detection on Cellular Devices	Simms High School
2 <sup>nd</sup> Place	Hope Gasvoda	Heavy Metal Resistance Arabidopsis thaliana	Big Sandy High School
3 <sup>rd</sup> Place	Cialeo Smith	Redesigned All-Metal Heatbreak	Fergus High School
4 <sup>th</sup> Place	Sydney Gutierrez Harlie Jackson	In the Dark	
5 <sup>th</sup> Place (TIE)	Laura Zietzke Josey Hinderager	Microplastic Pollution Remediation	Simms High School
	Marshall Kunkel Alexandra Baranko	Caffeine Effect on Daphnia Magna	Simms High School

## Special Awards

### AMERICAN METEOROLOGICAL SOCIETY

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

Sam Mishler Orion MacDonald	Alternative Wind Turbine Designs	Simms High School
Grace Poulton	Temperature and Wind Turbines	Cut Bank High School

### AMERICAN PSYCHOLOGICAL ASSOCIATION

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

Haley Hoerner	A Colorful Memory	Belt High School
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### 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.*

Makayla DeLange Denae Johnson	Compostable Cups	Foothills Community Christian School
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### 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	Georgia Balius	Oil Spill Cleanup	Foothills Community Christian School
2 <sup>nd</sup> Place	Josey Hinderager Laura Zietzke	Microplastic Pollution Remediation	Simms High School
3 <sup>rd</sup> Place	Sam Mishler Orion MacDonald	Alternative Wind Turbine Designs	Simms High School
4 <sup>th</sup> Place (tie)	Alex Dixon	Burning Biofuels	Foothills Community Christian School
4 <sup>th</sup> Place (tie)	Wyatt Manthey	Hydroelectric Home	North Toole County 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.*

Josh Kearns	Effect of Vape on Cellular Respiration in Yeast	North Toole County High School
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### **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.*

Laura Zietzke Josey Hinderager	Microplastic Pollution Remediation	Simms High School
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### **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."*

Makayla DeLange Denae Johnson	Compostable Cups	Foothills Community Christian School
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### **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.*

Cialeo Smith	Redesigned All-Metal Heatbreak	Fergus High School
Baylee Herman	Center Pivot Monitor	Simms 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.*

Jaden Koon	A Blue Greener Battery	North Toole County High School
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### **SOCIETY OF AMERICAN MILITARY ENGINEERS (SAME) AWARD**

Wyatt Manthey	Hydroelectric Home	North Toole County High School
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### **SOCIETY FOR IN VITRO BIOLOGY**

*Awarded to the most outstanding 11th grade student exhibiting in the areas of plant or animal in vitro biology or tissue culture.*

Jeena Alborano	Antimicrobial effect of glucose oxidase honey	North Toole County High School
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### **U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)**

*The U.S. Agency for International Development recognizes one individual or team project with the potential to make an impact on addressing international development challenges.*

Hope Gasvoda	Heavy Metal Resistance Arabidopsis thaliana	Big Sandy High School
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### **U.S. AIR FORCE**

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

Moroni Smith Matthew Hesla	Painter Bot	North Toole County High School
Sam Mishler Orion MacDonald	Alternative Wind Turbine Designs	Simms High School

### **U.S. METRIC ASSOCIATION**

Laura Zietzke Josey Hinderager	Microplastic Pollution Remediation	Simms High School
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### **U.S. STOCKHOLM JUNIOR WATER PRIZE**

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

Wyatt Manthey	Hydroelectric Home	North Toole County High School
Anna Wedel	Comparing Bacteria in Water Bottles	North Toole County High School
Marshall Byrnes Hayden Isaak	H2O Energy	Cascade 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.*

Jaden Koon	A Blue Greener Battery	North Toole County High School
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