

# HIGH SCHOOL GRAND AWARDS

<p><b>1ST PLACE</b></p> <p><i>Assessing Microplastic Pervasiveness in Bark</i></p> <p>Claire Bucklin</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>	<p><b>2ND PLACE</b></p> <p><i>"Weather" Leather Will Withstand</i></p> <p>Audrey Rumney</p> <p>CASCADE HIGH SCHOOL</p>
<p><b>3RD PLACE</b></p> <p><i>Logging Grass Growth</i></p> <p>Hattie Orem</p> <p>AUGUSTA HIGH SCHOOL</p>	<p><b>4TH PLACE</b></p> <p><i>Its A Sticky Situation</i></p> <p>Jack Snyder</p> <p>CASCADE HIGH SCHOOL</p>
<p><b>5TH PLACE</b></p> <p><i>Methods to Enhance Drought Resistance in Wheat</i></p> <p>Anna Wedel</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>	<p><b>6TH PLACE</b></p> <p><i>Leaf Stomata and Smoke</i></p> <p>Tyler Lane</p> <p>CASCADE HIGH SCHOOL</p>

## SPECIAL AWARDS

### AMERICAN METEOROLOGICAL SOCIETY

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

*Leaf Stomata and Smoke*

Tyler Lane

CASCADE HIGH SCHOOL

*Methods to Enhance Drought Resistance  
in Wheat*

Anna Wedel

NORTH TOOLE COUNTY HIGH SCHOOL

### AMERICAN PSYCHOLOGICAL ASSOCIATION

Outstanding research in psychological science under the category of behavioral and social sciences or any category related to psychology .

*The Importance of Science Fair*

Jackson Schubarth

SIMMS HIGH SCHOOL

### ASSOCIATION FOR WOMEN GEOSCIENTISTS

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Project exemplifies high standards of innovativeness and scientific excellence in the geosciences.

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Claire Bucklin

NORTH TOOLE COUNTY HIGH SCHOOL

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### 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.

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### NASA EARTH SYSTEM SCIENCE AWARD

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

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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."

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*The Effect of Wildfire Ash on the Growth of Algae*

Keanu Ng

FLATHEAD HIGH SCHOOL

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### NAVAL SCIENCE AWARD

The Naval High School Science Awards Program (NSAP) is a U.S. Navy and Marine Corps program that encourages our nation's students to develop and retain an interest in science and engineering.

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*Assessing Aeration Methods for  
Remediation of Hydrocarbon  
Contaminated Soil*

Nicole Nau

NORTH TOOLE COUNTY HIGH SCHOOL

*Identifying Jointed Goat-Grass, *Aegilops  
Cylindrica*, with Artificial Intelligence*

Baylee Herman

SIMMS HIGH SCHOOL

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### REGENERON BIOMEDICAL SCIENCE AWARD

The Regeneron Biomedical Science Award is to be given to one project of a high school student in the 9th, 10th, 11th, or 12th grade.

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*Comparing the Antimicrobial Effectiveness of Silver Nanoparticles and Microban 24*

Paige Head

NORTH TOOLE COUNTY HIGH SCHOOL

### RICOH USA, INC.

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

*Methods to Enhance Drought Resistance in Wheat*

Anna Wedel

NORTH TOOLE COUNTY HIGH SCHOOL

### 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.

*The Effect of Natural Additives to Plant Development*

Megan Hout

NORTH TOOLE COUNTY HIGH SCHOOL

### U.S. STOCKHOLM JUNIOR WATER PRIZE

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

*Bursting Bubbles*

Eliza Tureck

STANFORD HIGH SCHOOL

*Methods to Enhance Drought Resistance in Wheat*

Anna Wedel

NORTH TOOLE COUNTY HIGH SCHOOL

*Water Quality of Springs Near Me*

Loren Lane

AUGUSTA HIGH SCHOOL

*According to Chemical Analysis, Which is Best: Tap or Bottled Water?*

Aydan Estes

Brogan Zumbrun

SIMMS HIGH SCHOOL

### US 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.

*Assessing Microplastic Pervasiveness in Bark*

Claire Bucklin

NORTH TOOLE COUNTY HIGH SCHOOL

### US AIR FORCE

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

*Leaf Stomata and Smoke*

*Metal Rescue*

<p>Tyler Lane</p> <p>CASCADE HIGH SCHOOL</p> <p><i>Methods to Enhance Drought Resistance in Wheat</i></p> <p>Anna Wedel</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>	<p>Hunter Miler</p> <p>SIMMS HIGH SCHOOL</p> <p><i>Recycling Plastic Waste into 3D Printer Filament</i></p> <p>Wyatt Manthey</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>
<p><b>US METRIC ASSOCIATION AWARD</b></p> <p>The project should involve quantitative measures and should use units of the SI metric system for those measures.</p> <hr/> <p>Comparing the Antimicrobial Effectiveness of Silver Nanoparticles and Microban 24</p> <p>Paige Head</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>	
<p><b>YALE SCIENCE AND ENGINEERING ASSOCIATION</b></p> <p>Awarded to the most outstanding 11th grade project exhibiting in the areas of Computer Science, Engineering, Physics or Chemistry.</p> <hr/> <p><i>The Drowsiness Steering Wheel Cover Detecting Device</i></p> <p>Marshall Kunkel</p> <p>Dayne Sullivan</p> <p>SIMMS HIGH SCHOOL</p>	
<p><b>CITIZENS FOR CLEAN ENERGY</b></p> <p>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.</p> <hr/>	
<p><i>Assessing Aeration Methods for Remediation of Hydrocarbon Contaminated Soil</i></p> <p>Nicole Nau</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>	<p><i>Assessing Microplastic Pervasiveness in Bark</i></p> <p>Claire Bucklin</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>
<p><i>How Roof Color Affects Temperature in an Urban Heat Island Model</i></p> <p>Sofia Balius</p> <p>BALIUS ACADEMY (HOMESCHOOL)</p>	<p><i>Methods to Enhance Drought Resistance in Wheat</i></p> <p>Anna Wedel</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>
<p><i>Recycling Plastic Waste into 3D Printer Filament</i></p> <p>Wyatt Manthey</p> <p>NORTH TOOLE COUNTY HIGH SCHOOL</p>	<p><i>The Effect of Wildfire Ash on the Growth of Algae</i></p> <p>Keanu Ng</p> <p>FLATHEAD HIGH SCHOOL</p>
<p><i>Micro-plastic Remediation</i></p>	<p><i>Sun River Runoff Microplastic Detection</i></p>

Josey Hinderager

Laura Zietzke

SIMMS HIGH SCHOOL

Will Mishler

Hudson Rohrer

SIMMS HIGH SCHOOL