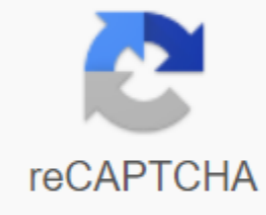




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Envirothon 2020 5th topic study guide

Forest ecology, identification of trees, insects, diseases, wood measurements, forest management, urban forestry, forest economy, etc. Classification, soil formation, basic chemical and physical properties, profiles, soil characteristics, soil surveys, site suitability, erosion, land use, conservation practices, etc. Water Study Guide Resources: IDNR What Fish Is This IDNR Management of Small Lakes and Ponds IDNR Aquatic Plants ID Field Guide for Aquatic Macro Invertebrates Common Freshwater Fish Illinois Forestry Study Sections Section 1 - Tree ID and Basic Biology Biology Basic Biology Tree ID Section 2 – Forest Ecology, Forest Wildlife Management and Silviculture FOREST ECOLOGY Succession Forest Stewardship Terminology Forestry Ecology Management FOREST WILDLIFE MANAGEMENT Calling all Wildlife To Cut or Not to Cut SILVICULTURE Silviculture Principles Intermediate Treatments Section 3 – Knowledge of IL Forest Resources and Benefits Dawson Forest Ecology and Management Benefits from Illinois Forest Resources Pgs 51-57 Early Illinois Forest Resource Pgs 18-21 Forest Resources Illinois 2002 Illinois Forest Resources Property Pgs 44-50 Illinois Forest Resources - What We Have and What They're Doing for Us Illinois Community Forests Forest Resources 2005 Section 4 - Forest Team , Measurement and Maps FOREST EQUIPMENT Biltmore Stick Digitech Professional Caliper Haglof Calipers Clinometer Compass Diameter GPS Tape Increment Borer Prism Spiegel Relascope Maryland Extension measuring your forest tools to measure forest map INTERPRETATION Measurements of the earth TREE MEASUREMENTS Measuring Standing Trees Tree Use Tree Measuring Trees and Volume Estimation What is a String What is a Cord What is a Basal Area Section 5 - Diseases Forest Health Tree Black Knots Cedar Apple Yolk Dutch Elm Disease 4H UIUC Dutch Elm Disease Detailed Anthracn Armilliose Armillaria Root Rot Oak Wilt 4H UIUC Wilt Oak Detailed Verticillium Wilt Nectria Canker Diseases on Hardwood Tree Plantations TREE INSECTS Asian Beetle Longhorn Asian Longhorn Beet USDA Pest Alert Emerald Ash Borer Emerald Ash Bor USDA Pest Alert Fall Webworm Oriental Tent Caterpillar Gypsy European Moth Elm Japanese Beetle Mountain Pine Beetle Southern Beetle Beetle Twolined Chesnut Borer Hemlock Wool Hemlock Wool USDA Plague Alert Red Oak Borer Wildlife Study Guide Resources : IDNR Wild Mammal Workbook IDNR Illinois Birds Workbook Bird Calls Nature Tracking - iTrack Wildlife Audubon Guides Bird Guide Soils Study Resources Guide: Soil Classification Study Guide 5th Category Key theme #1 Key theme #2 Key theme #3 Key topic Key Theme #5 Key Theme #6 Key Theme #7 Additional Material that could be part of the test or or Landscaping for the publication of Wildlife Water Resource Management: Local Control and Local Solutions The current environmental problem is always selected by the host of the North American competition. in 2020 Nebraska will host. Nebraska is lucky enough to sit on the Aquifer of Ogallala, one of the largest undefining aquifers in the world. This natural resource provides drinking water for most of the state and has allowed Nebraska to lead the country as the #1 irrigation state, helping to keep agriculture as industry-leading states. Managing and protecting this resource is the responsibility of Nebraska's only local natural resources districts (NRD). While NRD has kept groundwater levels close to pre-development levels, competing uses and variable supplies have placed additional management requirements on locally elected policymakers. Key topics: 1. Understand how groundwater and surface water systems work. Objective 1.Knowledge of the hydrological cycle Objective 2.Knowledge of the interactions of groundwater and surface waters Objective 3.Com human activities effect groundwater and surface water 2. Understand the importance of water quality and quantity as a basis in a healthy ecosystem Objective 1.Understand the connection between groundwater and surface water and how mutually affected 3. Understand a variety of water quality indicators in different landscapes. Objective 1.Knowledge of water quality impacts such as agricultural practices, urban planning, nitrates, toxic algae, etc. Objective 2. Understand water health indicators, including physical, chemical and biological properties and their role in the hydrological system. 4. Understanding a variety of indicators of water quantity in different landscapes Objective 1.Knowledge of water quantity impacts such as agricultural practices, urban development, groundwater levels Objective 2.Understanding current indicators and groundwater maps. 5. Understand how sustainable and better management practices improve and protect the quality and quantity of water for humans and wildlife. Objective 1.Understand the importance of advancing towards sustainable practices to protect the quality and quantity of water. Objective 2.Understand the best management practices that improve the quality and quantity of water, such as improving agricultural practices, urban planning and water efficiency. Objective 3.Understand the role of technology: flow meters, observation wells, airborne electromagnetic surveys (AEM), Unmanned Aerial Vehicles (UAV) (drones, GIS, etc.), precision agriculture, etc. 6. Understand the differences in local, regional and national systems that manage natural resources and the importance of in water resources. Objective 1. Knowledge of several conservation agencies, including Nebraska's natural resource districts, and how partners work together for conservation success. Objective 2.Understand the structure of Nebraska's natural resource districts and what makes it unique to others districts of usa 7. Understand the social, economic, political impacts of natural resource management and decision-making. Objective 1.Describe the social, economic and political impacts of the regulation of water quality and quantity. Objective 2. Understand the delicate balance behind decision-making: financing projects, social responsibility, regulatory authority. 2020 National NCF - Envirothon Competition Lincoln, Nebraska July 26 - August 1, 2020 Different browsers have cut the areas of this study page when people have tried to print. In order to rectify this, this page is also available as a word document. The West Virginia Envirothon Committee is working to plan the Envirothon 2021 competition. From now on, this event is scheduled to take place in Cacapon State Park from 15 to 16 April 2021. Due to the uncertainty of COVID-19, the date, location and format are subject to change. We can assure you that there will be a competition in 2021. It can be face-to-face or virtual, depending on the restrictions. Whatever decision is made, it will be taken with the safety and well-being of all students, advisers, staff and volunteers at the forefront. We will keep you informed as more information becomes available. We look forward to west Virginia's 24th Envirothon! What is Envirothon? The West Virginia Envirothon is an education program for conservation and competition for students in grades 9 through 12. The West Virginia Envirothon focuses on five thematic areas: aquatic, forestry, soil, wildlife, and a current environmental issue. By participating in the Envirothon program, students learn about West Virginia's diverse ecosystem and how they can help preserve and protect it for future generations. How can I participate? To participate in the West Virginia Envirothon, you must first assemble a team of five students and an adult advisor/chaperone. Teams can be created through school clubs, home school groups, classes, 4-H groups, scouting troops, etc. The next step is to register your team for the next West Virginia Envirothon, get your studio materials and prepare for the competition. Teams are tested on their knowledge of natural resources, skills and problem-solving skills. Resources, Standards and Information 2020 Envirothon 5th Topic Water Resource Management: Local Control and Local Solutions 2020 Learning Goals for Team Registration Team NCF Envirothon Medical Advertising Release Form Member Verification Advisor Voluntary Registration Form Medical Advertising Team Advisory Team Program First Place Team: \$5,000 Second Team: \$3,750 Third Place Team: \$2,500 Fourth Place Team: \$1,750 Fifth Team: \$1,250 1. teams are eligible 2. The Station Awards will be awarded as follows: a. In order to stimulate conservation and environmental education, students will be awarded \$250 per team for the highest team score at each station. The stations include Forestry, Aquatics, Soils, Soils, and the 5th current topic. B. For the purpose of stimulating conservation and environmental education within the classroom, \$250 will be awarded to the station winner's advisor/teacher. The seasons include Forestry, Aquatics, Soils, Wildlife and current 5th topic 3. The awards will be given to the highest-rated team in each thematic category: Wildlife, aquatic, forestry, soils and current 5th topics. 4. The ties will be resolved by a question or question that are presented at each test site. Aquatic, Forestry, Wildlife, Soils and the 5th current topic. 1. The top five qualifying teams and the station's prize teams are not eligible for the 2 attendance award. The five members of each team must be present in the final presentation in order to be eligible 3. The draw will be made before the announcement of team 1st place awarded to the top-year team in the amount of \$600 for the team, broken down to \$100 per member and \$100 for the coach. *Teams must attend all scheduled events. Sanctions can be handed out to teams that do not attend WV Envirothon Political events and Procedures West Virginia Envirothon Study Materials Aquatics | Forestry | Soils | Wildlife | Study articles PreliminaryOral_Presentation_Score_Sheet Final_Oral_Presentation_Score_Sheet Oral Presentation Rules for oral presentation 5th Topic 2020, teams will use PowerPoint slides instead of the posters used in previous years. A maximum of 10 slides can be used. No video, sound or hyperlinks would be allowed. Slides can use the animation features available with PowerPoint software. NEW 2020 Oral Presentation Guidelines PDF Computers will become your flash drive and business cards when you register. The flash drive will be given to the team at the scheduled time for their 15-minute training session.

To receive full credit, presentations must be between 5 minutes and 7 minutes. Points will be deducted according to the scoresheet if they take less time. The teams will stop after 7 minutes. This will allow time for a three-minute question-and-answer session with the judges. Filing Regulations 1). 10 maximum slide 2). Videos, sound or 3 hyperlinks are not supported). 3 X 5-inch note cards can be used to read; cannot be used as visual help 4). The Windows operating system will be used for all presentations using Microsoft Office PowerPoint 5). Absolutely no dare. A pointer will be provided. 6). No team, school, county, district, or personal names in presentation 7). There are no clothes identified to be wearing, Envirothon's T-shirts required 8). The points will be deducted for any violation of these Rules Top Five Presentation The top five teams will give the same presentation as the previous day, complete with 3 question period and response period. After that, each team will ask the same bonus question. Teams will have up to three minutes to confer an answer, and a minute to give the answer. At the end of the competition, all the presentations not collected (click on the image to visit NCF Envirothon Website) For more information, contact Envirothon President Wayne McKeever by email to wayne.mckeever@gmail.com or email West Virginia Envirothon 742 Airport Rd. Sutton, WV 26601 26601

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