Forest Health Monitoring Program
Monthly Update
June, 2020

WHAT'S NEW

Get to know FHM. This month get to know the new **Forest Health Monitoring Reporting web page** associated with the FHM main web site. Have you ever wanted to find out what information has been published in the FHM annual national reports about a specific topic? Are you interested in drought, fire, fragmentation, crown condition, or lichens? Maybe you are interested in information about abiotic influences, whitebark pine, beetle infestation, or other insects and diseases. The FHM reporting web page (https://www.fs.fed.us/foresthealth/publications/fhm/fhm-annual-national-reports.shtml) is now available and allows users to search all published FHM national report chapters online by entering a title word or keyword in the search box. Chapters, including the evaluation monitoring project summaries, from the FHM reports since the 2004 report are available. All the FHM annual national reports can be accessed as well. The reporting web page also provides access to other FHM publications, evaluation monitoring project information, archived Monthly Updates, and links to related digital resources. Current and archived State Highlights are available from the FHM main web site. Take some time to explore the variety of information available from the FHM Program!

UPCOMING WEBINARS

(Items beginning with * indicate a new listing or new information)

*Webinars and other information from **The National Academies of Sciences, Engineering and Medicine study, *The Potential for Biotechnology to Address Forest Health***, are posted on the study web site. Visit the web site for more information.

*Webinars and other information about **Citizen Science and the U.S. Forest Service** are posted on the Citizen Science web site. Visit the web site for more information.

***June 25, 2020 at 11:00 a.m. Eastern time. Forest Woody Biomass Operations and Biomass Production.** (Sponsored by USDA Forest Service) Speaker: Dr. Nate Anderson (Research Forester, USDA Forest Service, Rocky Mountain Research Station) Dr. Anderson's work is focused on three critical areas of bioenergy and bioproducts research and development: 1) sustainable and economically efficient forest biomass management and production systems, 2) competitive low-emissions biofuels and bioenergy conversion technologies deployed in the forest sector, and 3) information and tools for decision making

and policy analysis related to forest biomass utilization. Pre-registration is not required! CEU available: Certificate of participation. Plan to **join the webinar** 15 minutes early.

***June 25, 2020 at 12:00 p.m. Eastern time. Woodland Owner Lunch and Learn – Creating and Maintaining Upland Habitat.** (Sponsored by North Carolina State University Extension Forestry) Speaker: Jake Comer (Farm Bill Wildlife Biologist, Quail Forever) Creating and maintaining upland habitat for wildlife is important to many landowners. This presentation will cover the habitat requirements of many upland wildlife species and how forestry practices can be used to improve their habitat. Financial and technical resources, that are available to landowners, will also be reviewed. Habitat loss is the greatest threat to wildlife conservation. Landowners can manage forestland to maintain and even create essential habitat for various species of wildlife. Understanding the relationship between wildlife and your woodlands is critical to learning the necessary steps to improve habitat on your property. With planning and appropriate management, you can favor the animals and plants you most desire on your property. Pre-registration is not required! CEU available: Certificate of participation. Plan to **join the webinar** 15 minutes early.

***Webinars offered by the U.S Forest Service Geospatial Technology and Applications Center (GTAC)** include three varieties. The lightning talks (**Lightning Talk**) are very short presentations that will last approximately 15-30 minutes; they will focus on specific geoprocessing tasks and are designed to provide concise and useful information in a very efficient manner. The Awareness Sessions (**Awareness**) are designed to build your knowledge base on the particular topic and enable you to further explore the technology with realistic expectations. The Technical Training Webcasts (**Technical**) are designed to provide you with the technical skills and tools to complete geospatial tasks. The courses are also divided into five categories. The categories are indicated after each web link in the list below as follows: **GIS-Desktop; GIS-Web; GIS-Mobile; Remote Sensing; and Data management**.

All class registrations can be accessed via the CATALOG WEBPAGE.

Note: If you don't have access to the Forest Service Intranet, the registration links will not work. Please email what class you want to take to (SM.FS.geotraining@usda.gov) and they will register you manually.

- **June 16, 2020 at 10:00am – 4:00pm (Mountain Time). Collector for ArcGIS in the Forest Service** (**Technical - GIS-Mobile**) **Forest Service Only** This introductory webinar covers GPS data collection using the Collector app on a tablet or cell phone. The GIS data and online map setup for Collector are also introduced.
- **June 17, 2020 at 10:00am – 4:00pm (Mountain Time). ArcGIS 10.5 – Editing** (**Technical - GIS-Desktop**) This class demonstrates editing environment in ArcMap. You will be exposed to the new editing

environment. The course covers editing attribute data, performing spatial edits, and creating new data (digitizing). The hands-on exercises teach basic editing functionality.

- **June 23, 2020 at 10:00am – 4:00pm (Mountain Time). ArcGIS Pro for ArcMap Users** (**Technical - GIS-Desktop**). **Forest Service Only** A general understanding of GIS and a working knowledge of ArcGIS Desktop is required. This course is designed as a crosswalk between using ArcMap to ArcGIS Pro. This course provides a hands-on introduction to participants of Pro's new user interface and project platform. Participants will walk through common workflows previously performed in ArcMap/Catalog such as navigation, editing, analysis, sharing, symbolizing, creating a layout, geoprocessing, querying and importing maps and data.
- **June 24, 2020 at 10:00am – 1:00 pm (Mountain Time). Forest Service Geospatial Resources (Awareness – Data Management) Forest Service Only.**
- **June 25, 2020 at 10:00am – 4:00pm (Mountain Time). Intermediate ArcGIS Online** (**Technical - GIS-Web**) **Forest Service Only** A general understanding of ArcGIS Online and ArcMap is assumed for this course. This course will look at some of the more advanced options available in AGOL. A closer look at map and feature services will be explored. An examination and exploration of the Living Atlas will be conducted. Lastly, an overview of the analysis tools and geocoding will be covered.
- **June 30, 2020 at 10:00am – 4:00pm (Mountain Time). Collector for ArcGIS in the Forest Service** (**Technical - GIS-Mobile**) **Forest Service Only** This introductory webinar covers GPS data collection using the Collector app on a tablet or cell phone. The GIS data and online map setup for Collector are also introduced.
- **July 7-8, 2020 at 10:00am – 4:00pm (Mountain Time). ArcGIS 10.5 – Quick Start** (**Technical - GIS-Desktop**) Participants will learn to get started using ArcGIS Desktop's primary applications, ArcMap and ArcCatalog. The course covers fundamental GIS concepts and basic functionality to view and manipulate display properties. The hands-on exercises teach basic viewing functionality and GIS data types and their properties.
- **July 8, 2020 at 10:00am – 4:00pm (Mountain Time). Collector for ArcGIS in the Forest Service** (**Technical - GIS-Mobile**) **Forest Service Only** This introductory webinar covers GPS data collection using the Collector app on a tablet or cell phone. The GIS data and online map setup for Collector are also introduced.
- **July 16, 2020 at 10:00am – 4:00pm (Mountain Time). Introduction to ArcGIS Online** (**Technical - GIS-Web**) **Forest Service Only** This course covers the basics of using ArcGIS Online (AGOL). Students will learn how to make a map in AGOL, how to work in groups, what roles are, and then how to take a map offline to use in a mobile app like collector. Finally we will create a web app to view our completed map. The

objectives of this course are to understand the role of ArcGIS Online as a component of the US Forest Service's implementation of web-based services; and to gain an understanding of the administration of ArcGIS Online, publishing of map services, and the process to create web maps and web applications that we can share with others.

- **July 22, 2020 at 10:00am – 1:00 pm (Mountain Time). Forest Service Geospatial Resources (Awareness – Data Management) Forest Service Only.**

PUBLICATIONS OF INTEREST

1. **Joyce, Linda A.; Coulson, David**. 2020. Climate scenarios and projections: A technical document supporting the USDA Forest Service 2020 RPA Assessment. Gen. Tech. Rep. RMRS-GTR-413. Forest Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 85 p. Available **online**. (https://doi.org/10.2737/RMRS-GTR-413)

   Note: More information about the Research Planning Act (RPA) Assessment is available on the **RPA Assessment website**. (https://www.fs.fed.us/research/rpa/)

2. **Langner, Linda L.; Joyce, Linda A.; Wear, David N.; Prestemon, Jeffery P.; Coulson, David; O'Dea, Claire B.** 2020.Future scenarios: A technical document supporting the USDA Forest Service 2020 RPA Assessment. Gen. Tech. Rep. RMRS-GTR-412. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 34 p. Available **online**. (https://doi.org/10.2737/RMRS-GTR-412)

3. **Nelson, Mark D.; Riitters, Kurt H.; Coulston, John W.; Domke, Grant M.; Greenfield, Eric J; Langner, Linda L.; Nowak, David J.; O'Dea, Claire B.; Oswalt, Sonja N.; Reeves, Matthew C.; Wear, David N.** 2020. Defining the United States land base: a technical document supporting the USDA Forest Service 2020 RPA assessment. Gen. Tech. Rep. NRS-191. Madison, WI: U.S. Department of Agriculture, Forest Service, Northern Research Station. 70 p. Available **online**. (https://doi.org/10.2737/NRS-GTR-191.)

FOR MORE FHM INFORMATION

Visit the FHM homepage and Forest Health Assessment and Applied Sciences or access both via the **USDA Forest Service homepage**