
Forest Health Monitoring Program
December Monthly Update
December 10, 2009

Upcoming Events (items beginning with * indicate a new listing or new information added)

***January 25-28, 2010.** Albuquerque, NM. **Mark your calendars** for the 2010 Forest Health Monitoring Work Group Meeting to be held at the Hyatt in Albuquerque, NM on January 25 – 28, 2010. The chair of this year's Meeting Planning Committee is Rob Cruz (USDA Forest Service, R4) (rcruz@fs.fed.us). The meeting includes an orientation session for attendees new to the FHM program; a panel discussion on climate change and current and projected effects on southwestern forests; a presentation about the revision of the national insect and disease risk map; five focus/discussion groups; time for regional breakout discussions; an optional field trip near Albuquerque focusing on two areas – Rio Grande bosque and East Mountain pine forests; an excellent poster session featuring posters from Evaluation Monitoring projects; an awards reception; and ample time to meet and talk with colleagues. The five focus/discussion groups are: Aerial survey/disturbance tracking; Detection of invasive species; Climate change – monitoring effects on forests; National insect and disease risk map; and Communicating FHM successes. The focus groups are important opportunities to learn what FHM is currently doing, to share ideas, and to contribute to the future direction of the FHM program. Complete information about the meeting including the invitation letter, draft agenda, registration, lodging, and posters is now available on the FHM website: www.fs.fed.us/foresthealth/fhm/. Please note that rooms at the Hyatt Regency Albuquerque are being held for the meeting at the federal per diem rate of \$81 per night until **January 8, 2010**. Registration forms and payment are due by **January 8, 2010**. Registration for poster presentations is also due by **January 8, 2010**.

March 9-11, 2010. West Lafayette, IN. A Symposium on Ash Trees in North America. The USDA Forest Service and Purdue University are sponsoring this symposium to explore the value and preservation of ash (*Fraxinus sp.*) in North America. The symposium is open to all, but will be of special interest to researchers, industries and businesses that use ash, nursery growers, urban resource specialists, community leaders, educators, forest managers, and regulators. The symposium brings together experts on the many facets of the ash resource to highlight the overall significance of ash trees to life in North America. The meeting will feature a versatile agenda that addresses the distribution of ash throughout North America, the role of ash species in natural areas, forest management both before and after the arrival of emerald ash borer (EAB), ash in today's hardwood markets, novel methods of ash utilization, resistance mechanisms in ash to EAB, climate change as a threat to the resource, the role of ash in Native American culture, and management of ash in the presence of EAB. Students and professionals may also exhibit posters on work addressing ash utilization, research, education, or extension work in North America. Poster abstracts submitted before the December 1 deadline and accepted for publication will be published in the symposium proceedings. For more information including registering for the meeting and submitting poster abstracts, please visit: <http://www.fnr.purdue.edu/ashsymposium/index.htm> .

Publications of Interest

Clarke, S.R.; Nowak, J.T. 2009. Southern pine beetle. Forest Insect & Disease Leaflet 49. FS-R6-RO-FIDL#49/007-2010. Portland, OR: US Department of Agriculture Forest Service, Pacific Northwest Region (R6). 8 p. available online: www.fs.fed.us/r6/nr/fid/wo-fidls

Worrall, J.J.; Nakasone, K.K. 2009. Decays of Engelmann spruce and subalpine fir in the Rocky Mountains. Forest Insect & Disease Leaflet 150. FS-R6-RO-FIDL#150/006-2009. Portland, OR: US Department of Agriculture Forest Service, Pacific Northwest Region (R6). 12 p. www.fs.fed.us/r6/nr/fid/wo-fidls

The Fall 2009 issue of Forest ThreatNet, the newsletter of the Eastern Forest Environmental Threat Assessment Center is now available on the following web site: www.forestthreats.org.

Job Announcements

The USDA Forest Service Southwestern Region, Forest Health staff anticipates advertising one Forest Entomologist position at the GS-9, GS-11, or GS-12 level. A career ladder opportunity may be possible if the position is filled below GS-12. Response to this outreach will determine if the advertisement is open to the public or will be limited to current federal or Forest Service employees. This is a permanent full-time position on the New Mexico Zone staff with a non-negotiable duty station located at the Regional Office in Albuquerque, New Mexico. The position is within the Forestry, Forest Health, Cooperative, and International Forestry staff area of the Regional Office. It reports to the Forest Health New Mexico Zone Leader. The incumbent serves as the New Mexico Zone staff entomologist with responsibility for providing technical assistance to all federal land management agencies in New Mexico. Sufficient entomological knowledge to identify, assess the impact, and propose management strategies for forest insects is required. The most competitive candidates will have an advanced degree and a strong background in entomology and forestry. A brief description of duties follows: provides entomological technical assistance to National Forests, other federal land management agencies and Tribes; writes reports, technical papers, and articles on forest health subjects, writes biological assessments of forest insect impacts and is able to design management options that support land manager objectives; makes oral presentations on insect and disease incidence, identification, and management as a trainer or as a presenter at professional meetings; conducts field visits that may require long periods of driving, frequent over-night travel, and on occasion, aerial reconnaissance in a small fixed-wing aircraft; develops and maintains professional working relationships with Forest Service colleagues as well as with external cooperators, land managers, and partners; and uses scientific literature and participates in pilot projects, field tests and demonstrations which promote technology transfer. The process of applying will take place on the AVUE Digital Services website: <http://www.avuedigitalservices.com>. By setting up your profile in AVUE Digital Services and marking interested vacancies, you should receive an e-mail when the announcement is actually posted. Please note that the purpose of this Outreach Notice is to determine the potential applicant pool for this position and to establish the appropriate recruitment method and area of consideration for the advertisement (e.g., target grade or multi-grade and service-wide, region-wide, government-wide, or DEMO). Responses received from this outreach notice will be relied upon to make these determinations. If you are interested in this position, please complete the attached outreach form (Attachment 1 of this Update) and send to Debra Allen-Reid (dallenreid@fs.fed.us) by **January 15, 2010**. For further information, contact Debra Allen-Reid, Forest Health New Mexico Zone Leader, at 505-842-3286. When the position is advertised, the announcement will be posted on the Office of Personnel Management web site: www.usajobs.opm.gov. The USDA is an equal opportunity employer.

The Minnesota Division of Forestry is currently advertising for a Research Scientist 3 / Forest Modeler – stand yield, stand structure and growth, and distribution modeling. **MINIMUM QUALIFICATIONS:** a bachelor of science or masters degree in forest science / management (or a closely related natural science) from a program accredited by the Society of American Foresters, or a similar accrediting organization, is required. An advanced degree in forest mensuration (or a closely related field of study) is required. Two years of demonstrated operational research and analysis experience in the areas of stand yield, stand structure and growth, and distribution models is required. A Ph.D. in forest mensuration with operational research and analysis experience in the areas of stand yield, stand structure and growth, and distribution models is preferred. For detailed position information, contact David Heinzen at 218-327-4449 #222 or David.Heinzen@state.mn.us; or contact David Schipper at 218-327-4450 or David.Schipper@state.mn.us. Apply on-line by accessing the State of Minnesota Jobs Website at: <http://www.careers.state.mn.us> / Posting number: 09DNR000315.

The Missouri Department of Conservation has a position available for a Resource Scientist (Forest Pathologist) in Columbia, Missouri. **DUTIES AND RESPONSIBILITIES:** Monitors forest disease-related disturbances on a statewide basis through ground and aerial surveys and assessment of field staff reports and samples; maintains diagnostic laboratory and provides diagnostic and consultant services to Department field staff, federal and state agencies, and private organizations and individuals; identifies training needs and produces forest health training for Department field staff; presents forest health seminars and workshops for federal, State and green industry staff; develops and facilitates distribution of forest health educational materials, diagnostic tools, and management

guidelines; functions in a leadership role in Department response to emerging forest health issues related to diseases such as thousand cankers disease of walnut, sudden oak death, and forest decline complexes; develops and reviews Department policies concerning forest health; conducts research on forest pathology concerns relating to forest health monitoring and resource management; and designs research studies, analyzes and interprets data, and writes scientific articles, professional reports and popular articles. **QUALIFICATIONS:** Graduation from an accredited college or university with a Master's Degree in Forestry or closely related field, and two (2) years of progressively responsible professional experience in forest pathology work; or an equivalent combination of education and experience. Experience with ArcGIS software and GPS is desirable. **CLOSING DATE: January 15, 2010.** For a complete job description and to apply online, visit the website at <http://www.mdc.mo.gov/about/jobs> (job number 2009-004). If you are unable to apply online, you may apply by contacting the Missouri Department of Conservation in Jefferson City, Missouri at 573-751-4115, ext. 3694. The Missouri Department of Conservation is an equal opportunity employer.

The Pennsylvania Department of Conservation and Natural Resources (DCNR) and Pennsylvania Community Forests are accepting applications until **January 15, 2010** for the position of Chesapeake Bay Forester – Urban Forestry. A Chesapeake Bay Forester (Forester) will be hired through PA Community Forests and housed with the DCNR Bureau of Forestry, Rural and Community Forestry Section in Harrisburg. The individual will establish a replicable method for communities to proceed through the urban canopy assessments (UTC) process. This will include information on how to obtain imagery data, how to get those data analyzed, how to set UTC goals, and how to develop a management plan using the information from the imagery along with the goals that have been set. This includes: Creating a process to look at the entirety of Pennsylvania's portion of the Chesapeake Bay Watershed and identifying areas that the state needs to target in the UTC effort (this effort will include items such as an analysis of need and community capacity); obtaining commitments from all communities preceding commencement of any work; establishing open lines of communication with all communities involved; working as a liaison between the Bureau of Forestry and the University of Vermont spatial analysis lab, or other facilities involved in conducting the analyses for communities; assisting the communities and spatial analysis labs in obtaining the necessary imagery; assisting in the analysis of the imagery, and in interpreting the results; communicating the results of the analysis to the communities and local Bureau of Forestry and PSU staff where the community is located; providing technical assistance to communities and local forestry staff in setting UTC goals, and in establishing management plans to reach the goals; preparing reports of accomplishments made to the USDA Forest Service semi-annually and at the end of the grant period or end of the Federal fiscal year, as appropriate, if the grant period is longer. **REQUIRED QUALIFICATIONS:** Graduation from an accredited college or university with a bachelor's degree in forestry, urban forestry, environmental resources management, or another natural resource management field; or in environmental, regional, urban, or city planning. Good communication skills, computer skills, and organizational ability are a must. Expertise in the use of geographic information systems (GIS) is highly desirable. **LICENSES AND CERTIFICATES:** Possession of a valid Pennsylvania driver's license will be required within 30 days of employment. Arborist Certification by the International Society of Arboriculture will be required within 6 months of employment. **PHYSICAL AND ENVIRONMENTAL CONDITIONS:** The position is housed in Harrisburg at 400 Market Street and primarily involves office work at a computer. It will require frequent communication and occasional travel to communities where tree canopy assessments are underway, and to meet with partners involved in the process. City driving for on-site meetings will be necessary. Ground proofing of data or other work in the process of developing management plans may involve field work in varied weather conditions. **CONDITIONS OF EMPLOYMENT:** This position is funded through grants from the USDA Forest Service to the DCNR Bureau of Forestry on a year to year basis, and will be renewed depending on the availability of funds to support it. Salary is \$41,000 annually for a 37.5 hour work week. Benefits are not provided. **DESIRED START DATE:** February 10, 2010. **HOW TO APPLY:** Please submit a resume and written statement, including the dates, duties, and responsibilities of past and present employment relevant to the position. Please limit your submission to no more than three pages. Depending on the number of applications received, all or some applicants will be interviewed for the position. Application materials should be mailed to: DCNR Bureau of Forestry; Rural & Community Forestry Section; Chesapeake Bay Forester Position Vacancy; PO Box 8552; Harrisburg, PA 17105-8552

The University of North Carolina at Charlotte, Department of Geography and Earth Sciences is recruiting a tenure-track, Assistant Professor in landscape ecology and human-environment interaction for appointment in

August 2010. Required qualifications include (1) a doctoral degree in geography, ecology, environmental science or a related field at the time of appointment; (2) the ability to develop and maintain an externally funded research program; (3) the ability to teach geographical and environmental science courses at the graduate and undergraduate level; and (4) the ability to contribute to the department's interdisciplinary mission. The successful candidate will play a major role in the human-environmental component of the rapidly growing Ph.D. in Geography and Urban-Regional Analysis. Candidates with research interests in global change and ecological sustainability of urban environments are especially encouraged to apply. Desired qualifications also include modeling of ecological processes in heterogeneous landscapes, particularly urban ecosystems, with technical expertise in the integration of field and GIS analytical methods. Preference will be given to candidates who strengthen bridges across Geographical and Earth Sciences curricula and research collaborations. Review of applications will begin **January 4, 2010** and continue until the position is filled. Applications must be made electronically at <https://jobs.uncc.edu> and must include (1) letter of application describing teaching and research interests along with the applicant's ability to contribute to the department's mission, (2) a full curriculum vita, and (3) the names of three references. The full job ad is available at www.geoeearth.uncc.edu. UNC at Charlotte is an AA/EOE. For additional information, contact Dr. Ross Meentemeyer at rkmeente@uncc.edu.

A two-year Postdoctoral Scholar position is immediately available at the University of Missouri-Columbia in the field of **Forest Resource Bioenergy Analysis**. The selected candidate will have the opportunity to work as part of a multidisciplinary team of researchers as part of the "Northern Forest Futures Project (NFFP)" led by the USDA Forest Service, Northern Research Station. NFFP is a window on tomorrow's forests, revealing how today's trends and choices can change the future landscape of the Northeast and Midwest. The Postdoctoral Scholar will develop the capacity to estimate physical availability of woody biomass for bioenergy in the Northern U.S. using USDA Forest Service Forest Inventory and Analysis (FIA) data as a primary source, develop and implement analytical relationships and tools to summarize and map the quantity of available forest biomass for bioenergy. Assessment will incorporate information on quantities of logging residue, manufacturing residue, and other materials for bioenergy generation. The Postdoctoral Scholar will develop methods to filter and modify results based on tree species, size class, location, management practices, owner preferences, and proximity to energy infrastructure. Analysis will also include the estimation of future availability of biomass for energy in the U.S. Northern region. A Ph.D. in forestry or natural resource economics, forestry, wildlife biology, ecology or related discipline is required. The postdoctoral position requires strong modeling, quantitative, analytical, and writing skills, and ability to work with large datasets (including spatially referenced information). Strong technical background in statistical analysis is necessary and familiarity with statistical packages is required. The candidate needs to have good organizational and project management skills. The candidate is also expected to present at national conferences, write peer-reviewed journal manuscripts, and assist with the preparation of grant proposals. A competitive salary commensurate with experience and fringe benefits are offered as part of this position. Applications will be accepted until the position is filled with initial review beginning no later than February, 2010. Candidates should submit: a one-page letter (email is satisfactory) describing qualifications and experience; an up-to-date curriculum vitae; copies of graduate transcripts; and names, phone numbers, and email addresses of three professional references. This material should be submitted to: Dr. Francisco X. Aguilar, Assistant Professor, Department of Forestry, 203L ABNR Building, Columbia, MO 65211 (phone: 573-882-6304; fax: 573-882-1977; email: aguilarf@missouri.edu) AND Dr. Stephen Shifley, Research Forester, USDA Forest Service, 202 ABNR Building, Columbia, MO 65211 (phone: 573-875-5341 x232; fax: 573-882-1977; email: sshifley@fs.fed.us).

A two-year Postdoctoral Scholar position is immediately available at the University of Missouri-Columbia in the field of **Threats to Northern Forest Resources Analyst**. The selected candidate will be stationed at the USDA Forest Service Northern Research Station in St. Paul, Minnesota. The selected candidate will have the opportunity to work as part of a multidisciplinary team of researchers as part of the "Northern Forest Futures Project (NFFP)" led by the USDA Forest Service, Northern Research Station. NFFP is a window on tomorrow's forests, revealing how today's trends and choices can change the future landscape of the Northeast and Midwest. The Postdoctoral Scholar will develop a wide-ranging assessment of biotic, abiotic, and anthropogenic threats to the structure, composition, and health of forests in the Northern U.S. Using USDA Forest Service Forest Inventory and Analysis (FIA) data as a primary source, the Postdoctoral Scholar will select a subset of these threats and develop and implement analytical relationships and tools to summarize and map probabilities and impacts of these threats. The Postdoctoral Scholar will develop methods to filter and modify results based on tree species, size class,

location, management practices, owner preferences, fragmentation, and proximity to urban or developed environments. Analysis will also include the estimation of the impacts these forest-health modified forest ecosystems have upon the economy and ecosystem services of the region, as well as other analysis opportunities that arise and duties as assigned. A Ph.D. in forestry, wildlife biology, ecology or related discipline is required. The postdoctoral position requires strong modeling, quantitative, analytical, and writing skills, and ability to work with large datasets (including spatially referenced information). Strong technical background in statistical analysis is necessary and familiarity with statistical packages is required. The candidate needs to have good organizational and project management skills. The candidate is also expected to present at national conferences, write peer-reviewed journal manuscripts, and assist with the preparation of grant proposals. A competitive salary commensurate with experience and fringe benefits are offered as part of this position. Applications will be accepted until the position is filled with initial review beginning no later than February, 2010. Candidates should submit: a one-page letter (email is satisfactory) describing qualifications and experience; an up-to-date curriculum vitae; copies of graduate transcripts; and names, phone numbers, and email addresses of three professional references. This material should be submitted to: Dr. Francisco X. Aguilar, Assistant Professor, Department of Forestry, 203L ABNR Building, Columbia, MO 65211 (phone: 573-882-6304; fax: 573-882-1977; email: aguilarf@missouri.edu) AND Dr. Keith Moser, Research Forester, USDA Forest Service, 1992 Folwell Avenue, St. Paul, MN 55108 (phone: 651-649-5155; fax: 651-649-5140; email: wkmoser@fs.fed.us).

A two-year Postdoctoral Scholar position is immediately available at the University of Missouri-Columbia in the field of **Forest Ecosystem Services Analysis**. The selected candidate will be stationed at the USDA Forest Service Northern Research Station in St. Paul, Minnesota. The selected candidate will have the opportunity to work as part of a multidisciplinary team of researchers as part of the “Northern Forest Futures Project (NFFP)” led by the USDA Forest Service, Northern Research Station. NFFP is a window on tomorrow’s forests, revealing how today’s trends and choices can change the future landscape of the Northeast and Midwest. The Postdoctoral Scholar will estimate quantitative and/or qualitative levels of ecosystem services as a function of USDA Forest Service Forest Inventory and Analysis (FIA) data and auxiliary spatial and non-spatial data. These relationships are necessary for a fuller understanding of the range of commodities, services, and processes afforded by forest ecosystems and the tradeoffs among ecosystem services associated with alternative management scenarios. Common ecosystem services from forests include products such as wood, wildlife, energy, water yield, recreation, as well as processes such as carbon sequestration, climate modification, water purification, nutrient cycling, and sustaining biological diversity. Emphasis will be placed on assessing abundance and distribution of present and future wildlife habitats and water services. A Ph.D. in forestry, natural resource science, wildlife biology, ecology, or related disciplines is required. The postdoctoral position requires strong modeling, quantitative, analytical, and writing skills and ability to work with large datasets (including spatially referenced information). Strong technical background in statistical and geospatial analysis is necessary and familiarity with associated software packages (e.g. SAS, R, ArcGIS) is required. The candidate needs to have good organizational and project management skills. The candidate is also expected to present at national conferences, write peer-reviewed journal manuscripts, and assist with grant proposals. A competitive salary commensurate with experience and fringe benefits are offered as part of this position. Applications will be accepted until position is filled with initial review beginning no later than February 2010. Candidates should submit: a one-page letter (email is satisfactory) describing qualifications and experience; an up-to-date curriculum vitae; copies of graduate and undergraduate college transcripts; names, phone numbers, and e-mail addresses of three professional references. This material should be submitted to: Dr. Francisco X. Aguilar, Assistant Professor, Department of Forestry, 203L ABNR Building, Columbia, MO 65211 (phone: 573-882-6304; email: aguilarf@missouri.edu) AND Dr. Mark D. Nelson, Research Forester, USDA Forest Service, 1992 Folwell Avenue, St. Paul, MN 55108 (phone: 651-649-5104; email: mdnelson@fs.fed.us).

FHM Homepage : www.fs.fed.us/foresthealth/fhm/
or access via the USDA Forest Service homepage at www.fs.fed.us

OUTREACH RESPONSE FORM
Forest Entomologist
GS-0414-9/11/12

If you are interested in this position, please complete this outreach form and send via e-mail to dallenreid@fs.fed.us or by surface mail to: Debra Allen-Reid, FFH, Southwestern Region, 333 Broadway Blvd SE, Albuquerque, NM 87102 **by January 15, 2010**. Additional questions may be directed to Debra Allen-Reid, Forest Health New Mexico Zone Leader, at 505-842-3286.

PERSONAL INFORMATION:

Name:

Address:

E-Mail Address:

Phone:

Are you currently a Federal employee?

If yes: Current Agency and location:

Type of Appointment: ___Permanent ___Term ___Temporary

Current title/series/grade:

If you are not a current permanent (career or career conditional) employee, are you eligible for appointment under any of the following special authorities?

___ Yes ___ No

- Person with Disabilities
- Veterans Readjustment Act
- Former Peace Corps Volunteer
- Disabled Veteran w/30% Compensable Disability
- Student Career Experience Program
- Veterans Employment Opportunities Act of 1998
- Spouse of a member of the armed forces serving on active duty who has orders specifying a permanent change of station (not for training)
- Spouse of a 100 percent disabled service member injured while on active duty
- Un-remarried widow or widower of a service member who was killed while performing active duty

Thank you for your interest in this Forest Service Outreach Notice.