

USA-NPN Partners

Ameriflux

USA-NPN and Ameriflux sites are working together to develop phenology monitoring protocols for individual plants at the ground level to be coupled with eddy flux measurements (e.g., CO₂, H₂O). Ameriflux is also contributing to the development of a canopy cam network.

Appalachian Mountain Club

Members of the Appalachian Mountain Club (AMC) and hikers along the Appalachian Trail are monitoring flowering times of alpine and woodland plants along the famous trail. AMC is also contributing to the development of plant phenology protocols for the northeastern US.

Arbor Day Foundation

Arbor Day Foundation members are monitoring phenological development in six species of woody plants. These observations will be archived in the national phenology database maintained by the USA-NPN.

Bureau of Land Management

The Bureau of Land Management provided partial support for the initiation of Project Budburst.

Clean Air - Cool Planet

Clean Air - Cool Planet provided support for phenology monitoring training workshops.

CoCoRaHS (Community Collaborative Rain, Hail, & Snow Network)

Members of CoCoRaHS are monitoring phenological events in plants and animals at their weather monitoring sites.

Ecological Society of America

The USA-NPN is partnering with the Strategies for Ecology Education, Diversity, and Sustainability (SEEDS) program of the Ecological Society of America to engage high school and college students in plant and animal life cycle event monitoring at secondary schools and colleges across the United States.

Environment for the Americas

The Environment for the Americas is promoting phenology monitoring and the USA-NPN in their outreach and education efforts.

Freshwater Society

The Freshwater Society has highlighted the USA-NPN in their 2010 Minnesota Weatherguide Environment calendar.

Great Sunflower Project

Great Sunflower Project observers are documenting the life cycle events of sunflowers. These observations will be archived in the national phenology database maintained by the USA-NPN.

HoneyBeeNet

Participants in HoneyBeeNet are documenting the life cycle events of key nectar plants. These observations will be archived in the national phenology database maintained by the USA-NPN.

Hummingbird Monitoring Network

Hummingbird Monitoring Network and USA-NPN are working together to establish monitoring of hummingbird nectar plant phenology.

Long Term Ecological Research Network

Long-Term Ecological Research Network (LTER) sites are collecting, sharing, and disseminating phenological data; collaborating in scientific research; and coordinating in education, outreach, and training activities related to phenology in cooperation with the USA-NPN. USA-NPN and LTER have established a formal agreement for operation in the form of a Memorandum of Understanding.

Monarch Watch

Monarch Watch observers are collecting life cycle events of key nectar plants for monarch and other butterflies. These observations are contained in the national phenology database maintained by the USA-NPN.

National Aeronautical Space Administration

The National Aeronautical Space Administration provided support for the 2006 USA-NPN Implementation Workshop. NASA is collaborating with USA-NPN to develop remote sensing tools and technology for monitoring phenology.

National Ecological Observatory Network (NEON)

National Ecological Observatory Network (NEON) and the USA-NPN are working together to develop standardized plant and animal observation protocols for all NEON core sites.

National Oceanic and Atmospheric Administration

The NCDC Climate Data Modernization Program is providing support for the digitization of historical datasets. Additionally, National Weather Service Cooperative Observers are participating in the USA-

NPN monitoring program. Historical lilac phenology datasets are housed with the NOAA Paleoclimate Program.

National Park Service

The National Park Service (NPS) provided support for the 2005 USA-NPN Implementation Workshop. In addition, NPS and USA-NPN together have developed a strategy for making plant, animal, and landscape phenology observations in a large number of its park units, by both park scientists and visitors alike. Pilot phenology monitoring programs are underway in parks in northeastern states and California.

National Science Foundation

The National Science Foundation (NSF) provided support in the form of a 5-year Research Coordination Network grant (grant # 0639794). The NSF also provided support for USA-NPN planning and implementation workshops.

NatureServe

NatureServe is providing scientific assistance in the development and review of USA-NPN species lists, monitoring protocols, and procedures.

New York Botanical Garden

The New York Botanical Garden has developed and hosted training workshops on USA-NPN methods and protocols.

North American Pollinator Protection Campaign

The North American Pollinator Protection Campaign and the USA-NPN are working together to identify ways to address pollination issues through the collection of phenology information. Through their 'Take Action for Pollinators' project, NAPPCC is promoting Nature's Notebook. The USA-NPN is formally recognized as a NAPPCC partner.

Oak Ridge National Laboratory

Oak Ridge National Laboratory (ORNL) has provided significant collaboration to develop the cyberinfrastructure and information management system for the USA-NPN. ORNL continues to work with USA-NPN and the USGS to enhance the database and data model functionality. An ORNL Laboratory-Directed Research and Development grant to the Environmental Sciences Division funded this work in part.

Project BudBurst

Project BudBurst is an opportunity for citizen scientists including individuals, school or other groups to track the phenology of plants. Representatives of Project BudBurst contributed significantly to the development of the USA-NPN Plant Phenology Program and overall program development.

University of Arizona

The Office of Arid Lands Studies (OALS) and the College of Agriculture and Life Sciences provide support to the USA-NPN in the form of logistical and administrative support and office space. OALS is the physical home for the USA-NPN National Coordinating Office.

University of California – Santa Barbara Phenology Stewardship Program

Researchers at University of California, Santa Barbara are contributing to USA-NPN education and outreach program development as well as to the USA-NPN Plant Phenology Program development.

University of Wisconsin-Milwaukee

Dr. Mark D. Schwartz of the University of Wisconsin-Milwaukee (UWM) leads the long-running research program based on a network of cloned lilacs <http://www.usanpn.org/?q=node/30> and is the Principal Investigator of the Research Coordination Network grant. In addition, Dr. Schwartz and UWM have contributed greatly to the development of the USA-NPN program and to coordinating activities related to the USA-NPN.

US Environmental Protection Agency

The US Environmental Protection Agency provided support for a USA-NPN planning and implementation workshop.

US Fish and Wildlife Service

The US Fish and Wildlife Service (USFWS) has provided partial support for a 2-year Wildlife Phenology Program Coordinator. USFWS is also working with the USA-NPN to develop regional pilot programs for connecting people to nature and scoping the potential for incorporating phenology into national education and outreach and science programs, monitoring, and management. USFWS provided support for a USA-NPN planning and implementation workshop.

US Forest Service

US Forest Service (USFS) Research and Development is working with USA-NPN to develop plant phenology observation protocols for USFS Experimental Forest and Range Network sites. USFS R&D is also developing education and outreach opportunities centered on phenology, with the intent to get kids into the woods. The US Forest Service provided support for a USA-NPN planning and implementation workshop.

United States Geological Survey

The Executive Director for the National Phenology Network is a United States Geological Survey (USGS) scientist. The USGS provides base stable support for the USA-NPN National Coordinating Office and continues to provide substantial programmatic support for the development of education and outreach opportunities, cyberinfrastructure, and other activities. The USGS also provided support for a USA-NPN planning and implementation workshop.

The Wilderness Society

Members of the Wilderness Society are tracking plant phenology on wild lands.

The Wildlife Society

The Wildlife Society has partnered with the USA-NPN to develop a Wildlife Phenology Program. They have provided a full-time coordinator for the program and additional funding for travel, cyber-infrastructure development, and other programmatic support. Their membership is also assisting with the selection of focal species for the program and the development of monitoring protocols.

YourGardenShow.com

Members and participants of YourGardenShow.com are encouraged to observe the phenology of plants in their gardens and yards following Nature's Notebook protocols.