

United States National Vegetation Classification Database

Release of the USNVC 2.031 for the U.S.!



In June 2021 U.S. National Vegetation Classification Version 2.031 is being made available through the USNVC.org website. This release contains information on vegetation types for all levels of the new USNVC Hierarchy and is based on the FGDC Vegetation Subcommittee's 2008 Standard (FGDC 2008). Table 1 below provides the status of the classification by hierarchy level and geography. Most of the levels are complete across the U.S., but lowest levels are comprehensive for the lower 48 states.

How often will the NVC be updated?

The NVC upper levels (L1-L5) will not change (except due to minor concept edits) more frequently than every five years. Lower levels (L6-L8) will change on a rolling basis. Starting in 2016, accepted revisions to the USNVC are being published through the [USNVC Proceedings – ESA Vegetation Classification Panel](#). Users will always be able to access the official published version on the web (usnvc.org). This updating approach will hopefully strike the right balance between making available ongoing improvements (dynamic content) and provide stable and robust versions of the national classification.

To cite the USNVC Database:

USNVC (United States National Vegetation Classification) Database [Version]. [Year] Federal Geographic Data Committee, Vegetation Subcommittee. Washington D.C. Date Month Year Accessed.

E.g. USNVC (United States National Vegetation Classification) Database Ver 2.031. 2021 Federal Geographic Data Committee, Vegetation Subcommittee. Washington D.C. 28 June 2021.

To cite a specific type description:

Author(s). PublicationYear. Description Title [last revised revisionDate]. United States National Vegetation Classification [version]. Federal Geographic Data Committee, Washington, D.C.

E.g. Simon, S. and D. Zollner. 2002. *Quercus stellata* / *Forestiera ligustrina* - *Symphoricarpos orbiculatus* / *Carex cherokeensis* - *Schizachyrium scoparium* Woodland (CEGL007777). United States National Vegetation Classification. Federal Geographic Data Committee, Washington, D.C.
Date Accessed: 02/05/2016.

About spatial standards

The United States Federal Geographic Data Committee (hereafter called the FGDC) is tasked to develop geospatial data standards that will enable sharing of spatial data among producers and users and support the growing National Spatial Data Infrastructure (NSDI), acting under the Office of Management Budget (OMB) Circular A-16 (OMB 1990, 2000) and Executive Order #12906 (Clinton 1994) as amended by Executive Order #13286 (Bush 2003). FGDC subcommittees and working groups, in consultation and cooperation with state, local, tribal, private, academic, and international communities, develop standards for the content, quality, and transferability of geospatial data. FGDC standards are developed through a structured process, integrated with one another to the extent possible, supportable by the current vendor community (but are independent of specific technologies), and publicly available.

Table 1. Status of the USNVC Natural Vegetation Hierarchy , July 2021

Upper Levels				
Formation Class	Concepts & descriptions written by the Hierarchy Revisions Working Group (HRWG), reviewed by ESA Panel and international experts. <i>Completed FY2014. Publication in press.</i>			
Formation Subclass				
Formation				
	Conterminous U.S.	Alaska	Hawai'i	Caribbean
Middle Levels				
Division	Concepts & descriptions written by HRWG and ESA Peer Review Board Regional Associate Editors. <i>Completed FY2016</i>			
Macrogroup	Concepts & descriptions completed by NVC partners; Reviewed by ESA panel <i>Completed FY2015</i>	Concepts drafted; by NVC partners; Reviewed by ESA Panel. <i>Completed FY2020</i>	Concepts drafted by NVC partners; Descriptions needed.	Concepts drafted by NatureServe; <i>Descriptions in progress</i>
Group	Concepts & Descriptions drafted by NVC partners; Reviewed by ESA Panel; <i>Completed FY2016</i>	Concepts drafted by NVC partners and Alaska Heritage Program; Reviewed by ESA Panel; <i>Completed FY2020</i>	Concepts & Descriptions completed by NVC partners; <i>Completed 2016.</i>	Concepts drafted by NVC partners; <i>Descriptions in progress</i>
Lower Levels				
Alliance	Concepts & Descriptions completed by NatureServe; Reviewed by ESA Panel; <i>Completed FY2016</i>	Concepts in draft form by Alaska Heritage Program; Review and integration with USNVC needed.	Concepts incomplete; Review and integration work needed.	Concepts incomplete; Review and integration work needed.
Association	Concepts & Descriptions completed by NatureServe, Screening criteria developed by ESA Panel, applied by NatureServe. <i>Completed FY2016</i>	Concepts in draft form by Alaska Heritage Program; Review and integration with USNVC needed.	Concepts and Descriptions drafted by state partners; Review and integration with USNVC needed.	Concepts incomplete; integration work needed.

About this database

This database contains type descriptions for natural vegetation at all levels of the U.S. National Vegetation Classification. Upper formation descriptions were written by the Hierarchy Revisions Working Group, mid-levels by NatureServe staff and ESA Peer Review Board members, and lower levels by NatureServe staff. The process was conducted in collaboration with Federal Geographic Data Committee Vegetation Subcommittee and a wide variety of state, federal and private partners as a part of the implementation of the National Vegetation Classification. The descriptions are based on consultation with natural resource professionals, published literature, summaries of vegetation plot data, and other vegetation classification systems. The Ecological Society of America's Panel on Vegetation Classification is responsible for managing the review and formal adoption of these types into the National Vegetation Classification. Partners involved in the implementation of the USNVC include:

U.S. Government

- Department of Agriculture (USDA)
- Department of Commerce (DOC)
- Department of Defense (DOD)
- Department of the Interior (USDI)
- Forest Service (FS) - Chair
- National Agriculture Statistical Service (NASS)
- Natural Resources Conservation Service (NRCS)
- National Oceanic and Atmospheric Administration (NOAA)
- National Marine Fisheries Service (NMFS)
- U.S. Army Corps of Engineers (USACE)
- U.S. Navy (NAVY)
- Bureau of Land Management (BLM)
- Fish and Wildlife Service (FWS)
- National Park Service (NPS)
- U.S. Geological Survey (USGS)
- Environmental Protection Agency (EPA)
- National Aeronautics and Space Administration (NASA)

Non U.S. Government

- NatureServe (NS)
- Ecological Society of America (ESA)

Disclaimer

Given the dynamic nature of the standard, it is possible a type description is incomplete or in revision at the time of download; therefore, users of the data should track the date of access and read the revisions section of the USNVC.org website to understand the current status of the classification. While USNVC data have undergone substantial review prior to posting, it is possible that some errors or inaccuracies have remained undetected.

For information on the concepts of vegetation classification and processes used to develop these descriptions see:

ESA Panel. 2015. How can a national vegetation classification help ecological research and management? *Frontiers in Ecology and the Environment* 13: 185-186.

Faber-Langendoen, D., T. Keeler-Wolf, D. Meidinger, D. Tart, B. Hoagland, C. Josse, G. Navarro, S. Ponomarenko, J.-P. Saucier, A. Weakley, P. Comer. 2014. EcoVeg: A New Approach to Vegetation Description and Classification. *Ecological Monographs* 84:533-561).

Franklin, S., D. Faber-Langendoen, M. Jennings, T. Keeler-Wolf, O. Loucks, A. McKerrrow, R.K. Peet, and D. Roberts. 2012. Building the United States National Vegetation Classification. *Annali di Botanica* 2: 1-9.

Jennings, M. D., D. Faber-Langendoen, O. L. Loucks, R. K. Peet, and D. Roberts. 2009. Standards for associations and alliances of the U.S. National Vegetation Classification. *Ecological Monographs* 79(2):173-199.

FGDC [Federal Geographic Data Committee]. 2008. Vegetation Classification Standard, FGDC-STD-005, Version 2. Washington, DC., USA. [http://www.fgdc.gov/standards/projects/FGDC-standards-projects/vegetation/NVCS_V2_FINAL_2008-02.pdf]

For additional information contact:

- Implementation of the U.S. National Vegetation Classification Standard - Alexa McKerrrow (amckerrrow@usgs.gov)
- Development of NVC Type Descriptions - Don Faber-Langendoen (don_faber-langendoen@natureserve.org)
- Ecological Society of America's Review of Type Descriptions – Scott Franklin (Scott.Franklin@unco.edu)
- Federal Geographic Data Committee – Vegetation Subcommittee's Activities – Carol Spurrier (cspurrier@fs.fed.us)