

# Riparian vegetation % cover (DP1.20191.001)

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## Measurement

Percent cover of riparian vegetation at wadeable streams

## Collection methodology

Riparian vegetation percent cover is measured once annually during sampling windows designed to capture peak-greenness (at least 90% NDVI greenness) at wadeable stream and river sites. Measurements are taken using a convex spherical densiometer to count points of riparian cover and calculate vegetation percent cover at each of ten equally spaced riparian sampling transects throughout the 1 km reach at wadeable stream sites, and 0.3 meters out from the shore at the 5 plots nearest the thalweg at river sites. At wadeable stream sites, at each transect six densiometer measurements are taken: four measurements from the center of the stream facing upstream, downstream, left, and right; and two measurements standing 0.3 m from the left and right banks facing out from the stream. At river sites four densiometer measurements are taken 0.3 meters in river from the bank at the five plots nearest the rivers thalweg: facing upstream, downstream, facing the left bank, and facing the right bank.

For information about disturbances, land management activities, and other incidents that may impact data at NEON sites, see the [Site management and event reporting \(DP1.10111.001\)](#) data product.

## Data package contents

rip\_percentComposition: Assessment of riparian vegetation percent cover in wadeable streams

variables: Description and units for each column of data in data tables

readme: Data product description, issue log, and other metadata about the data product

validation: Description of data validation applied at the points of collection and ingest

## Data quality

As described in Collection Methodology, cover is measured at several points, which can be used to estimate a site-level mean and variance.

## Documentation



[NEON Aquatic Sampling Strategy](#)

NEON.DOC.001152vB | 931.8 KiB | PDF



[AOS Protocol and Procedure: RIP – Riparian Habitat Assessment](#)

NEON.DOC.003826vF | 1.7 MiB | PDF



[NEON User Guide to Riparian Composition and Structure \(NEON.DP1.20275\)](#)

NEON\_riparianCompStruct\_userGuide\_vC | 1.2 MiB | PDF



[NEON User Guide to Riparian Vegetation Percent Cover \(NEON.DP1.20191\)](#)

NEON\_riparianCover\_userGuide\_vC | 1.1 MiB | PDF

For more information on data product documentation, see:

<https://data.neonscience.org/data-products/DP1.20191.001>

## Citation

To cite data from Riparian vegetation % cover (DP1.20191.001), see citation here:

<https://data.neonscience.org/data-products/DP1.20191.001>

For general guidance in citing NEON data and documentation, see the citation guidelines page:

<https://www.neonscience.org/data-samples/guidelines-policies/citing>