

# NHDPlus Stream Segment (Reach) Attributes

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Attribute	Description
Accounting	Hydrologic accounting unit (6-digit HUC) of a stream gage
AboveComID	Common identifier of feature that is above another (see BelowComID)
Address	Metadata Address
AddressTyp	Metadata Address Type
Agency_Cd	Gov. Agency responsible for a stream gage
ArbolateSu	An estimate of miles of stream upstream of a flowline. Not populated.
AreaSqKm	Feature area in square kilometers
AreaWtMAP	Area Weighted Mean Annual Precipitation at bottom of flowline in mm
AreaWtMAT	Area Weighted Mean Annual Temperature at bottom of flowline in degree C *10
AttributeA	Metadata Attribute Accuracy
Ave	Average daily flow for the period of record for a stream gage
BCF	Vogel flow estimate bias correction factor
BeginningD	Metadata Beginning Date
BelowComID	Common identifier of feature that is below another (see AboveComID)
BFIYrs	Number of years used in the base-flow index computation for a stream gage
BFI_Ave	Average annual base-flow index value for a stream gage
BFI_StDev	Standard deviation of annual base-flow index for a stream gage
CalendarDa	Metadata Calendar Date
CanalDitch	Canal Ditch Type
Cat_Area	Area of catchment in square kilometers
City	Metadata City Name
ComID	Common identifier of an NHD feature or relationship
Completeness	Metadata Completeness
Constructi	Construction status
ContactIns	Metadata Contact Instructions
ContactOrg	Metadata Contact Organization
ContactVoi	Metadata Contact Voice Telephone
Count	Number of cells with a particular value in the Value field of a grid
CumDrainag	Cumulative drainage area in square kilometers
CUMHILC_1	% of cumulative drainage area classified as Unclassified in NOAA C-CAP
CUMHILC_2	% of cumulative drainage area classified as High Intensity Developed in NOAA C-CAP
CUMHILC_3	% of cumulative drainage area classified as Low Intensity Developed in NOAA C-CAP
CUMHILC_4	% of cumulative drainage area classified as Cultivated Land in NOAA C-CAP
CUMHILC_5	% of cumulative drainage area classified as Grassland in NOAA C-CAP
CUMHILC_6	% of cumulative drainage area classified as Deciduous Forest in NOAA C-CAP
CUMHILC_7	% of cumulative drainage area classified as Evergreen Forest in NOAA C-CAP
CUMHILC_8	% of cumulative drainage area classified as Mixed Forest in NOAA C-CAP
CUMHILC_9	% of cumulative drainage area classified as Scrub/Shrub in NOAA C-CAP
CUMHILC_10	% of cumulative drainage area classified as Palustrine Forested Wetland in NOAA C-CAP

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Attribute	Description
CUMHILC_11	% of cumulative drainage area classified as Palustrine Scrub/Shrub Wetland in NOAA C-CAP
CUMHILC_12	% of cumulative drainage area classified as Palustrine Emergent Wetland in NOAA C-CAP
CUMHILC_13	% of cumulative drainage area classified as Estuarine Forested Wetland in NOAA C-CAP
CUMHILC_14	% of cumulative drainage area classified as Estuarine Scrub/Shrub Wetland in NOAA C-CAP
CUMHILC_15	% of cumulative drainage area classified as Estuarine Emergent Wetland in NOAA C-CAP
CUMHILC_16	% of cumulative drainage area classified as Unconsolidated Shore in NOAA CCAP
CUMHILC_17	% of cumulative drainage area classified as Bare Land in NOAA C-CAP
CUMHILC_18	% of cumulative drainage area classified as Water in NOAA C-CAP
CUMHILC_19	% of cumulative drainage area classified as Palustrine Aquatic Bed in NOAA C-CAP
CUMHILC_20	% of cumulative drainage area classified as Estuarine Aquatic Bed in NOAA C-CAP
CUMHILC_21	% of cumulative drainage area classified as Tundra in NOAA C-CAP
CUMHILC_22	% of cumulative drainage area classified as Snow/Ice in NOAA C-CAP
CumNLCD_11	% of cumulative drainage area classified as Open Water in NLCD
CumNLCD_12	% of cumulative drainage area classified as Perennial Ice/Snow in NLCD
CumNLCD_21	% of cumulative drainage area classified as Low Intensity Residential in NLCD
CumNLCD_22	% of cumulative drainage area classified as High Intensity Residential in NLCD
CumNLCD_23	Commercial/Industrial/Transportation in NLCD
CumNLCD_31	% of cumulative drainage area classified as Bare Rock/Sand/Clay in NLCD
CumNLCD_32	% of cumulative drainage area classified as Quarries/Strip Mines/Gravel Pits in NLCD
CumNLCD_33	% of cumulative drainage area classified as Transitional in NLCD
CumNLCD_41	% of cumulative drainage area classified as Deciduous Forest in NLCD
CumNLCD_42	% of cumulative drainage area classified as Evergreen Forest in NLCD
CumNLCD_43	% of cumulative drainage area classified as Mixed Forest in NLCD
CumNLCD_51	% of cumulative drainage area classified as Shrubland in NLCD
CumNLCD_61	% of cumulative drainage area classified as Orchards/Vineyards/Other in NLCD
CumNLCD_71	% of cumulative drainage area classified as Grasslands/Herbaceous in NLCD
CumNLCD_81	% of cumulative drainage area classified as Pasture/Hay in NLCD
CumNLCD_82	% of cumulative drainage area classified as Row Crops in NLCD
CumNLCD_83	% of cumulative drainage area classified as Small Grains in NLCD
CumNLCD_84	% of cumulative drainage area classified as Fallow in NLCD
CumNLCD_85	% of cumulative drainage area classified as Urban/Recreational Grasses in NLCD
CumNLCD_91	% of cumulative drainage area classified as Woody Wetlands in NLCD
CumNLCD_92	% of cumulative drainage area classified as Emergent Herbaceous Wetlands in NLCD
Cumpct_CN	% of cumulative drainage area in Canada and not classified in NLCD

# NHDPlus Stream Segment (Reach) Attributes

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Attribute	Description
Cumpct_MX	% of cumulative drainage area in Mexico and not classified in NLCD
Cumsum_pct	Sum of the % cumulative drainage areas
DA_Sq_Mile	Reported drainage area in square miles of a stream gage. Stations with drainage area of -999999 means there is no reported drainage area in National Water Information System
DataSetCre	Metadata Dataset Credit
Day1	First date of flow data (yyyymmdd) for a stream gage
DayN	Last date of flow data (yyyymmdd) for a stream gage
DeltaLevel	Numerical difference between stream level for FromComID and stream level for ToComID in the NHDFlow table
Descriptio	Text description of feature type and the encoded attributes
Direction	714 for coastal connection, 709 for flowing connection, 712 for network starts, 713 for network ends
Divergence	0 if flowline is not part of a divergence, 1 if flowline is the main path of a divergence, 2 if flowline is a minor path of a divergence
DnDrainCou	Number of flowlines immediately downstream
DnLevel	Stream level of mainstem downstream flowline
DnLevelPat	Downstream mainstem level path identifier
DnMinHydro	Downstream minor path hydrologic sequence number
DUUID	Metadata identifier
Elevation	Feature elevation in feet
Enabled	Always "True"
EndingDate	Metadata Ending Date
EventDate	Date an event was created
EventType	Type of entity in an event
FCode	Numeric code that contains the feature type and its attributes as found in the NHDFFCode lookup table
FDate	Feature Currency Date
FeatureCom	Reserved for future use
FeatureCla	Reserved for future use
FeatureDet	URL where detailed event entity data can be found
Flowdir	Flow direction is "WithDigitized" or "Uninitialized"
FromComID	The common identifier for a flowline in a flow relationship from which water flows (see ToComID)
FromNode	A unique number assigned to the implied node at the upstream end of an NHD Flowline
FType	NHD feature type
GNIS_ID	Geographic Names Information System ID for the value in GNIS_Name
GNIS_Name	Feature Name as found in the Geographic Names Information System
GOTBFI	Flag indicating BFI data (1) or no BFI data (2) for a stream gage
GOTQ	Flag indicating flow data (1) or no flow data (0) for a stream gage
Grid_code	Value stored in grid cells; a unique identification number for each catchment(compressed numbering system)

# NHDPlus Stream Segment (Reach) Attributes

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Attribute	Description
Grid_count	Number of cells with a particular value in the value field; equals the number of 30x30 meter grid cells in each catchment; catchment area can be computed from this field
HILC_1	% of catchment area classified as Unclassified in NOAA C-CAP
HILC_2	% of catchment area classified as High Intensity Developed in NOAA C-CAP
HILC_3	% of catchment area classified as Low Intensity Developed in NOAA C-CAP
HILC_4	% of catchment area classified as Cultivated Land in NOAA C-CAP
HILC_5	% of catchment area classified as Grassland in NOAA C-CAP
HILC_6	% of catchment area classified as Deciduous Forest in NOAA C-CAP
HILC_7	% of catchment area classified as Evergreen Forest in NOAA C-CAP
HILC_8	% of catchment area classified as Mixed Forest in NOAA C-CAP
HILC_9	% of catchment area classified as Scrub/Shrub in NOAA C-CAP
HILC_10	% of catchment area classified as Palustrine Forested Wetland in NOAA C-CAP
HILC_11	% of catchment area classified as Palustrine Scrub/Shrub Wetland in NOAA C-CAP
HILC_12	% of catchment area classified as Palustrine Emergent Wetland in NOAA C-CAP
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HILC_19	% of catchment area classified as Palustrine Aquatic Bed in NOAA C-CAP
HILC_20	% of catchment area classified as Estuarine Aquatic Bed in NOAA C-CAP
HILC_21	% of catchment area classified as Tundra in NOAA C-CAP
HILC_22	% of catchment area classified as Snow/Ice in NOAA C-CAP
HorizPosit	Metadata Horizontal Positional Accuracy
HU_8_Name	Text name of Subbasin
HUC	Hydrologic Cataloging Unit (8-digit HUC) of the gage
HUC_8	8-digit Hydrologic Unit Code, also known as Subbasin code (formerly known as catalog unit code)
HUC_REG	Hydrologic Region (2-digit HUC) of the gage
HwNodesqkm	Catchment area in square kilometers that drains to the headwater node of the flowline indicated by ComID
Hydrograph	hydrographic category, Intermittent or perennial
Hydroseq	Hydrologic sequence number
IncrFlowU	Incremental Flow (cfs) for Flowline as computed by the Unit Runoff Method
Inundation	Inundation Area Type
Lat_NHD	Latitude of the NHD location in decimal degrees, NAD83
Lat_Site	Latitude of the streamgage (site) location - gage house in decimal degrees, NAD83
LengthKM	Feature Length in kilometers

# NHDPlus Stream Segment (Reach) Attributes

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Attribute	Description
LevelPathi	Hydrologic sequence number of most downstream flowline in level path
LogicalCon	Metadata Logical Consistency
Lon_NHD	Longitude of the NHD location in decimal degrees, NAD83
Lon_Site	Longitude of the streamgage (site) location - gage house in decimal degrees, NAD83
MAFlowU	Mean Annual Flow (cfs) at bottom of flowline as computed by Unit Runoff Method
MAFlowV	Mean Annual Flow (cfs) at bottom of flowline as computed by Vogel Method
MAVelU	Mean Annual Velocity (fps) at bottom of flowline as computed by Unit Runoff Method
MAVelV	Mean Annual Velocity (fps) at bottom of flowline as computed by Vogel Method
MaxElevRaw	Maximum elevation (unsmoothed) in meters
MaxElevSmo	Maximum elevation (smoothed) in meters
Measure	Measure along reach where a point event is located, in percent from downstream end
Metadata_1	Metadata Standard Version
Max_	Maximum daily flow for the period of record for a stream gage
MetadataDa	Metadata Date
MetadataSt	Metadata Standard Name
Min_	Minimum daily flow for the period of record for a stream gage
MinElevRaw	Minimum elevation (unsmoothed) in meters
MinElevSmo	Minimum elevation (smoothed) in meters
NewHUCode	Substr(NewReachCo,1,8)
NewReachCo	New Reach Code in a Reach cross reference entry
NewReachDa	New Reach date in a Reach cross reference entry
NewUPMI	not used
NDays	Number of days of flow data for a stream gage
NDaysGT0	Number of days of non-zero flow for a stream gage
NHD2Gage_D	Distance between a Stream Gage and the NHD Reach to which it is linked
NLCD_11	% of catchment area classified as Open Water in National Land Cover Dataset 1992 (NLCD)
NLCD_12	% of catchment area classified as Perennial Ice/Snow in NLCD
NLCD_21	% of catchment area classified as Low Intensity Residential in NLCD
NLCD_22	% of catchment area classified as High Intensity Residential in NLCD
NLCD_23	% of catchment area classified as Commercial/Industrial/Transportation in NLCD
NLCD_31	% of catchment area classified as Bare Rock/Sand/Clay in NLCD
NLCD_32	% of catchment area classified as Quarries/Strip Mines/Gravel Pits in NLCD
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NLCD_61	% of catchment area classified as Orchards/Vineyards/Other in NLCD

# NHDPlus Stream Segment (Reach) Attributes

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Attribute	Description
NLCD_71	% of catchment area classified as Grasslands/Herbaceous in NLCD
NLCD_81	% of catchment area classified as Pasture/Hay in NLCD
NLCD_82	% of catchment area classified as Row Crops in NLCD
NLCD_83	% of catchment area classified as Small Grains in NLCD
NLCD_84	% of catchment area classified as Fallow in NLCD
NLCD_85	% of catchment area classified as Urban/Recreational Grasses in NLCD
NLCD_91	% of catchment area classified as Woody Wetlands in NLCD
NLCD_92	% of catchment area classified as Emergent Herbaceous Wetlands in NLCD
Offset	Display offset for an event
OID	Internal ESRI Table row ID
OldHUCode	Substr(OldReachCo,1,8)
OldReachCo	Old Reach Code in a reach cross reference entry
OldReachDa	Old Reach Date in a Reach cross reference entry
OldUpMI	Not used
Operationa	Operational status
Originator	Metadata Originator
P1	1st percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P5	5th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P10	10th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P20	20th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P25	25th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P30	30th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P40	40th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P50	50th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P60	60th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P70	70th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P75	75th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P80	80th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P90	90th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater

# NHDPlus Stream Segment (Reach) Attributes

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Attribute	Description
P95	95th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
P99	99th percentile of daily flow for the period of record of a stream gage. Negative values indicate reverse flow; tidal or backwater
PathLength	Distance to terminal flowline
Pct_CN	% of catchment area in Canada and not classified in NLCD
Pct_MX	% of catchment area in Mexico and not classified in NLCD
PipelineTy	Pipeline type
Positional	Metadata Positional accuracy
PostalCode	Metadata Postal Code
Precip	Mean annual precipitation in mm
Process	In a Reach cross reference entry, the name of the process that created the Reach Code change
ProcessDes	Metadata Process Description
Prod_unit	Production unit identifier
ProssDat	Metadata Process Date
Publicatio	Metadata Publication Date
ReachCode	Reach Code assigned to feature or reach on which an event is located
ReachFileV	Reach file version in a Reach cross reference entry
ReachsmDat	Reach Version Date
ReachResol	Reach Resolution
Relationsh	Relationship to surface
ReservoirT	Reservoir type
Resolution	Always "Medium"
Reviewed	Flag to indicate review status - Y or N of an event location.
Shape_Area	ESRI feature area in square decimal degrees
Shape_Leng	ESRI feature length in decimal degrees
SiteStatus	Active (A) or Inactive (I) where active StreamGageEvents have streamflow data in water year(s) 2003 and/or 2004
Slope	Slope of flowline (cm/cm)
Source	Source of boundary;, 0 = Watershed Boundary Dataset, 1 = NHD, 2 = Other
SourceCita	Metadata Source Citation Abbreviation
SourceCont	Metadata Source Contribution
SourceCurr	Metadata Source Currentness Reference
SourceScal	Metadata Source Scale Denominator
Source_Ori	Originator of an event
Source_Dat	Description of event entity
Source_Fea	Unique Identifier of event entity, link to external data about entity
SpecialUse	Special use category
Stage	Elevation stage
StartFlag	0 if a flowline is not a headwater flowline, 1 if a flowline is a headwater flowline
State	2 char. state postal abbreviation of the USGS Water Science Center maintaining the gage. Puerto Rico is listed as a state.

# NHDPlus Stream Segment (Reach) Attributes

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Attribute	Description
State_Cd	2-digit state FIPS code of the WSC maintaining the gage. Puerto Rico is listed as a state
Station_NM	Station name
StateorPro	Metadata State or Province
StDev	Standard deviation of daily flow for the period of record
StreamLeve	Stream level (dimensionless)
StreamOrde	Strahler stream order. Not populated. See NHDPlus data extension table SOSC.dbf.
SubRegion	Hydrologic sub-region (4-digit HUC)
Sum_pct	Sum of the % catchment areas
Temp	Mean annual temperature in degrees centigrade * 10
TerminalFI	0 if a flowline is not a network terminus, 1 if a flowline is a network terminus
TerminalPa	Hydrologic sequence number of terminal flowline
ThinnerCod	Ordinal value used to display various network densities
Title	Metadata title of source data used as input for creating or updating NHD
ToComID	Common identifier for a flowline which is receiving flow in a flow relationship (see FromComID)
ToComIDMea	Not valued
ToNode	A unique number assigned to the implied node at the downstream end of a flowline
TypeofSour	Metadata type of Source Media
UpHydroSeq	Upstream mainstem hydrologic sequence number
UpLevelPat	Upstream mainstem level path identifier
UpMinHydro	Upstream minimum hydrologic sequence number
Value	The value stored in grid cells; also known as Grid_code in related tables
VertPositi	Metadata Vertical Positional Accuracy
WBAreaComI	ComID of an NHD polygonal water feature through which an NHD "Artificial Path" flowline flows