Welcome to StreamStats

Basin Characteristic Definitions

The values in the "StatLabel", "StatisticLabel", and "Definition" fields in the table below appear in the outputs for user-selected sites in columns with headings of "Parameter Code", "Parameter Name", and "Parameter Description", respectively. In reports for USGS streamgages, the "StatisticLabel" values below appear in the "Characteristic Name" column of the Physical Characteristics tables.

StatLabel	Statistic Label	Definition	English	Metric
ACRSDFT	Area_of_Coarse_Stratified_Drift	Area underlain by stratified drift	square miles	km2
ACTIVE	Active_station	Station is currently active	Yes or No	Yes or No
AGMD97	Percent_Agricultural_MDOP97	Percent area of agricultural land use from Maryland Dept of Planning 1997 land-use data	percent	percent
AG_OF_DA	Ag_Land_Percentage	Agricultural Land in Percentage of Drainage Area (Idaho Logistic Regression Equations SIR 2006-5035)	percent	percent
ALAKE	Area_of_Lakes_and_Ponds	Area of Lakes and Ponds	square miles	km2
ALVM	Percent_Quaternary_Alluvium	Percentage of the basin covered by Quaternary alluvial deposits from Reed & Bush (2005)	percent	percent
AOS	Average_Maximum_Overland_Slope	Average Maximum Overland Slope	percent	percent
APRAVPRE	Mean_April_Precipitation	Mean April Precipitation	inches	mm
APRAVTMP	Mean_April_Temperature	Mean April Temperature	degrees F	degrees C
ASANDGRAV	Area_Underlain_By_Sand_And_Gravel	Area of land surface underlain by sand and gravel deposits	square miles	km2
ASPECT	Basin_Average_Aspect	Basin average of topographic slope compass directions from elevation grid	degrees C	degrees
ATILL	Area_of_Till	Surface area covered by till deposits	square miles	km2
AUGAVPRE	Mean_August_Precipitation	Mean August Precipitation	inches	mm
AUGAVTMP	Mean_August_Temperature	Mean August Temperature	degrees F	degrees C
AVMXSS	Average_Maximum_Soil_Slope	Average Maximum Soil Slope	percent	percent
AWETLAND	Area_of_Wetlands	Area of Wetlands	square miles	km2
AWETSG	Wetland_Area_Underlain_By_Sand_Gravel	Area of lakes and wetlands underlain by sand and gravel deposits	square miles	km2
AZIMUTH	Azimuth	Decimal degrees from north of a straight line connecting the points 10- and 85-percent of distance along main stream channel	decimal degrees	decimal degrees
BASELNDPTH	Baseline_Depth	Depth of the 50-percent flow duration in feet above the zero-flow point.	feet	m
BASINPERIM	Basin_Perimeter	Perimeter of the drainage basin as defined in SIR 2004-5262	miles	km
BASLENAH	Basin_Length_ArcHydro_Method	Basin length from outlet to basin divide determined using the method in the ArcHydro Toolset	miles	km
BASSTRMORD	Basin_Stream_Order	Strahler stream order of the main channel at the basin outlet	dimensionless	dimensionless
BASWIDTH	Effective_Basin_Width	Effective basin width computed as drainage area (DRNAREA) divided by basin length (BASLENAH)	miles	km
BDF	Basin_Development_Factor	Urbanization index described by Sauer and others (1981) - Also called Urbanization Index in Texas	dimensionless	dimensionless
BEGIN_REC	Begin_date_of_record	First day of record	days	days
BFREG	Bankfull_Flow_Region	Bankfull-flow region code	dimensionless	dimensionless
BSHAPE	Basin_Shape_Factor	Basin Shape Factor for Area	dimensionless	dimensionless
BSHAPELFP	Basin_Shape_Factor_LFP_Method	Basin Shape Factor computed as the square of the longest flow path divided by drainage area	dimensionless	dimensionless
BSLDEM10ff	Mean_Basin_Slope_from_10m_DEM_ft_per_ft	Mean basin slope computed from 10 m DEM in feet per foot	feet per foot	m per m
BSLDEM10M	Mean_Basin_Slope_from_10m_DEM	Mean basin slope computed from 10 m DEM	percent	percent
BSLDEM250	Mean_Basin_Slope_from_250K_DEM	Mean basin slope computed from 1:250K DEM	percent	percent
BSLDEM30ff	Mean_Basin_Slope_from_30m_DEM_ft_per_ft	Mean basin slope computed from 30 m DEM in feet per foot	feet per foot	m per m
BSLDEM30M	Mean_Basin_Slope_from_30m_DEM	Mean basin slope computed from 30 m DEM	percent	percent
BSLOPCM	Mean_Basin_Slope_ft_per_mi	Mean basin slope determined by summing lengths of all contours in basin mulitplying by contour interval and dividing product by drainage area	feet per mi	m per km
BSLOPD	Mean_Basin_Slope_degrees	Mean basin slope measured in degrees	degrees C	degrees
BSLOPGM	Mean_Basin_Slope_ft_per_ft	Mean basin slope determined using the grid-sampling method	feet per foot	m per m
CANOPY_PCT	Percent_Area_Under_Canopy	Percentage of drainage area covered by canopy comprised of classes 41-43 from 2001 National Land Cover Dataset	percent	percent
CARBON	Percent_Carbonate	Percentage of area of carbonate rock	percent	percent
CCM	Constant_of_Channel_Maintenance	Constant of channel maintenance computed as drainage area divided by total stream length	square mile per mile	km2 per km
CELVBLUE	Average_Channel_Elevation	Average of outlet elevation and the elevation at the upstream extent of the mapped stream	feet	m
CELVMEAN	Mean_Main_Channel_Elevation	Mean elevation along the main channel	feet	m
CENTROIDX	Basin_Centroid_X	Basin centroid horizontal (x) location in state plane coordinates	State plane coordinates	State plane coordinates
CENTROIDY	Basin_Centroid_Y	Basin centroid vertical (y) location in state plane units	State plane coordinates	State plane coordinates
CENTROXRI	Basin_Centroid_X_RI	Basin centroid horizontal (x) location in Rhode Island state plane coordinates	State plane coordinates	State plane coordinates
CENTROYRI	Basin_Centroid_Y_RI	Basin centroid vertical (y) location in Rhode Island state plane coordinates	State plane coordinates	State plane coordinates
CENTRXUTM	Basin_Centroid_X_UTM	Basin centroid horizontal (x) location in UTM meters	UTM meters	UTM meters

CENTRYUTM	Basin_Centroid_Y_UTM	Basin centroid horizontal (x) location in UTM meters	UTM meters	UTM meters
CF	Climate_Factor	Climate factor for area	dimensionless	dimensionless
CHANCOND	Average_Channel_Condition	Condition between points 100- 75- 50- and 25-percent along main channel - 2 if entirely paved - 1 if unpaved	dimensionless	dimensionless
CIRC_RATIO	Circularity_Ratio	Circularity Ratio	dimensionless	dimensionless
CLENBLUE	Main_Channel_Blue_Line_Length	Length of main channel shown as blue line on a topographic map	miles	km
CLIMFAC2YR	2_Yr_climate_factor_LK1990	Two-year climate factor from Litchy and Karlinger (1990)	dimensionless	dimensionless
COASTDIST	Distance_From_Coast_To_Basin_Centroid	Shortest distance from the coastline to the basin centroid	miles	km
COMMD97	Percent_Commercial_MDOP97	Percent area of commercial land use from Maryland Dept of Planning 1997 land-use data	percent	percent
COMPRAT	Compactness_Ratio	A measure of basin shape related to basin perimeter and drainage area	dimensionless	dimensionless
CONIF	Percent_Coniferous_Forest	Percentage of land surface covered by coniferous forest	percent	percent
CONTDA	Contributing_Drainage_Area	Area that contributes flow to a point on a stream (total drainage area minus non-contributing areas within basin)	square miles	km2
CONVEY	Bank_Full_Channel_Conveyance	Conveyance of main stream channel at bank-full conditions	cubic feet per second	m3 per second
CROPS	Percent_Agricultural_Land	Percent of basin area covered by agricultural land	percent	percent
CRSDFT	Percent_Coarse_Stratified_Drift	Percentage of area of coarse-grained stratified drift	percent	percent
CRSTILL	Percent_Coarse_Till	Percentage of area of coarse till	percent	percent
CSL100	Channel_Slope_from_All_Elevations	Main channel slope determined from elevations along 100 percent of the longest flow path extended to the basin divide	feet per mi	m per km
CSL10_85	Stream_Slope_10_and_85_Method	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	feet per mi	m per km
CSL10_85fm	Stream_Slope_10_and_85_Method_ft_per_mi	Change in elevation between points 10 and 85 percent of length along main channel to basin divide divided by length between points ft per mi	feet per mi	m per km
CSL1085LFP	Stream_Slope_10_and_85_Longest_Flow_Path	Change in elevation divided by length between points 10 and 85 percent of distance along the longest flow path to the basin divide, LFP from 2D grid	feet per mi	m per km
CSL1085LO	Stream_Slope_10_and_85_Lower_Half	Change in elevation between points 10 and 85 percent of length along the lower half of the longest flow path divided by length between the points	feet per mi	m per km
CSL1085UP	Stream_Slope_10_and_85_Upper_Half	Change in elevation between points 10 and 85 percent of length along the upper half of the longest flow path divided by length between the points	feet per mi	m per km
CSLArc10	Stream_Slope_ArcHydro_Method_10m_DEM	Average stream slope determined using ArcHydro Tools and 10 meter DEM - computes average of slopes from all elevation grid cells along the blue line	feet per mi	m per km
CSLBlue	Stream_Slope_Blue_Line_Method	Change in elevation of the longest blue-line stream (not extended to the boundary) divided by stream length	feet per mi	m per km
CSLBlue_ff	Main_Channel_Slope_ft_per_ft	Change in elevation of the longest blue-line stream divided by stream length	feet per foot	m per m
DACTCH	Average_Depth_of_Active_Channel	Average depth of the active channel of a stream	feet	m
DATUM	Datum_of_Latitude_Longitude	Datum used to determine the site coordinates	dimensionless	dimensionless
DAUNREG	Unregulated_Drainage_Area	Unregulated drainage area used in OK regulated equations	square miles	km2
DBANKFULL	Average_Depth_at_Bankfull_Stage	Average depth of a stream at bankfull level	feet	m
DECAVPRE	Mean_December_Precipitation	Mean December Precipitation	inches	mm
DECAVTMP	Mean_December_Temperature	Mean December Temperature	degrees F	degrees C
DESMOIN	Des_Moines_Lobe	Area underlain by Des Moines Lobe	percent	percent
DETEN	Percent_Lake_and_Detention_Basin	Percentage of area of lakes and detention basins	percent	percent
DEVNLCD01	Percent_developed_from_NLCD2001	Percentage of land-use categories 21-24 from NLCD 2001	percent	percent
DINTNLCD01	Development_Intensity_from_NLCD2001	Impervious percentage computed as ((.10*A21+.25*A22+.65*A23+.90*A24)/DA)*100 from NLCD 2001	percent	percent
DISTRICT	District_Code	Code of the state where the station is located.	dimensionless	dimensionless
DRAININD	Drainage_Index	Drainage index from STATSGO soil properties computed as in SIR 2014-5177	dimensionless	dimensionless
DRFTPERSTR	Stratified_Drift_per_Stream_Length	Area of stratified drift per unit of stream length	square mile per mile	km2 per km
DRNAREA	Drainage_Area	Area that drains to a point on a stream	square miles	km2
DRNDENSITY	Basin_Drainage_Density	Basin drainage density defined as total stream length divided by drainage area.	miles per square mile	km per km2
DRNFREQ	Drainage_Frequency	Number of first order streams per square mile of drainage area	1st-order streams per square mile	1st-order streams per km2
DURREG	Flow_Duration_Region_Code	Flow-Duration Hydrologic Region code	dimensionless	dimensionless
DV_OF_DA	Dev_Land_percentage	Developed Land in Percentage of Drainage Area (Idaho Logistic Regression Equations SIR 2006-5035)	percent	percent
EL1200	Percentage_of_Basin_Above_1200_ft	Percentage of basin at or above 1200 ft elevation	percent	percent
EL2000	Percent_Area_Above_2000_ft	Percent of basin area that is above 2000 feet elevation	percent	percent
EL5000	Percent_above_5000_ft	Percent of area above 5000 ft	percent	percent
EL5500	Percent_above_5500_ft	Percent of area above 5500 ft	feet	m
EL6000	Percent_above_6000_ft	Percent of area above 6000 ft	percent	percent
EL6500	Percent_above_6500_ft	Percent of area above 6500 ft	feet	m
EL7000	Percent_Above_7000_ft	Percent of area above 7000 ft	feet	m
EL7500	Percent_above_7500_ft	Percent of area above 7500 ft	percent	percent
ELEV	Mean_Basin_Elevation	Mean Basin Elevation	feet	m
ELEV1000	Elevation_in_Thousands	Elevation in Thousands	thousand feet	kilometer
ELEV10FT	Elev_10pct_LFP_from_DEM	Elevation at 10 percent from outlet along longest flow path slope using DEM	feet	m
ELEV10FT3D	Elev_10pct_LFP_from_3Dline	Elevation at 10 percent from outlet along longest flow path slope using 3D line	feet	m
ELEV85FT	Elev_85pct_LFP_from_DEM	Elevation at 85 percent from outlet along longest flow path slope using DEM	feet	m

ELEV85FT3D	Elev_85pct_LFP_from_3Dline	Elevation at 85 percent from outlet along longest flow path slope using 3D line	feet	m
END_REC	End_date_of_record	Last day of record	days	days
ET0306MOD	Mean_Monthly_EvapTrans_Mar_to_Jun_MODIS	Spring (March-June) mean monthly evapotranspiration (2001-2011), MODIS	inches	mm
ET0710MOD	Mean_Monthly_EvapTrans_Jul_to_Oct_MODIS	Summer (July-October) mean monthly evapotranspiration (2001-2011), MODIS	inches	mm
EVAP	Mean_Annual_Lake_Evaporation	Mean Annual Lake Evaporation	inches	mm
EVAPAN	Mean_Annual_Pan_Evaporation	Mean Annual Pan Evaporation	inches	mm
FEBAVPRE	Mean_February_Precipitation	Mean February Precipitation	inches	mm
FEBAVTMP	Mean_February_Temperature	Mean February Temperature	degrees F	degrees C
FIRSTYEAR	First_Year_of_Record	Year in which record was first collected or used for analysis	years	years
FLC11DVLMH	Frac_Lo_Med_Hi_Developed_from_NLCD2011	Fraction of drainage area that is in low to high developed land-use classes 22-24 from NLCD 2011	decimal fraction	decimal fraction
FOREST	Percent_Forest	Percentage of area covered by forest	percent	percent
FOREST_MD	Percent_forest_from_MD_2010_land_use	Percent forest from Maryland 2010 land-use data	percent	percent
FORESTp1	Percent_Forest_add_1_ID_ROI_Parm	Percent Forest plus 1 (ID ROI Parm)	percent	percent
FORMD97	Percent_Forest_MDOP97	Percent area of forest from Maryland Dept of Planning 1997 land-use data	percent	percent
FORWET	Percent_Forested_Wetlands	Percentage of land covered by forested wetlands - source not specified	percent	percent
FOSTREAM	Number_of_First_Order_Streams	Number of first order streams determined using the Strahler stream ordering system	dimensionless	dimensionless
FROST	Mean_February_28_Frost_Depth	Mean frost depth on February 28	inches	mm
FSSURGDC78	Fraction_SSURGO_Drainage_Classes_7_and_8	Fraction of land area that is in very poorly drained and unknown likely water drainage classes 7 and 8 from SSURGO	decimal fraction	decimal fraction
GENRO	Generalized_Runoff	Generalized mean annual runoff in Minnesota 1951-85	inches	mm
GEOFACTVT	Geographic_Factor_for_VT	Northing of the centroid of the drainage basin in the Vermont State Plane coordinate system divided by 100000 then increased by 1	dimensionless	dimensionless
GLACIATED	Percent_of_Glaciation	Percentage of basin area that was historically covered by glaciers	percent	percent
GLACIER	Percent_Glaciers	Percentage of area of Glaciers	percent	percent
GRUN01	Mean_January_Groundwater_Runoff	Mean January groundwater runoff	inches	mm
GRUN02	Mean_February_Groundwater_Runoff	Mean February groundwater runoff	inches	mm
GRUN03	Mean_March_Groundwater_Runoff	Mean March groundwater runoff	inches	mm
GRUN04	Mean_April_Groundwater_Runoff	Mean April groundwater runoff	inches	mm
GRUN05	Mean_May_Groundwater_Runoff	Mean May groundwater runoff	inches	mm
GRUN06	Mean_June_Groundwater_Runoff	Mean June groundwater runoff	inches	mm
GRUN0611	Mean_Groundwater_Runoff_Jun_to_Nov	Mean annual dry season groundwater runoff, June through November	inches	mm
GRUN07	Mean_July_Groundwater_Runoff	Mean July groundwater runoff	inches	mm
GRUN08	Mean_August_Groundwater_Runoff	Mean August groundwater runoff	inches	mm
GRUN09	Mean_September_Groundwater_Runoff	Mean September groundwater runoff	inches	mm
GRUN10	Mean_October_Groundwater_Runoff	Mean October groundwater runoff	inches	mm
GRUN11	Mean_November_Groundwater_Runoff	Mean November groundwater runoff	inches	mm
GRUN12	Mean_December_Groundwater_Runoff	Mean December groundwater runoff	inches	mm
GRUN1205	Mean_Groundwater_Runoff_Dec_to_May	Mean annual wet season groundwater runoff, December through May	inches	mm
GRUNMS	Mean_Annual_GW_Runoff_Monthly_Sums	Mean annual froundwater runoff computed from monthly sums	inches	mm
GUTTER	Gutter_Length	Length of gutters per square mile of drainage area	miles per square mile	km per km2
HIELONGRAT	Hawaii_Elongation_Ratio	Ratio of (1)diameter of circle with equal area as basin to (2)basin length, as defined in SIR 2004-5262	dimensionless	dimensionless
HIGHEQU	High_Flow_Regression_Equation	Indicates whether the site was used to develop high-flow regression equations	Yes or No	Yes or No
HIGHREG	High_Flow_Region_Code	High-Flow Hydrologic Region code	dimensionless	dimensionless
HIMARRATE	Hawaii_Mean_Rainfall_Rate	Mean annual rainfall rate determined based on the method described in SIR 2004-5262	cubic feet per second	m3 per second
HOMDEN2000	Housing_Density_during_2000	Housing density from 2000 census data	homes per acre	homes per km2
HOMDENCYR	Housing_Density_of_Centroid_Year	Housing density for centroid year of streamflow data collection	homes per acre	homes per km2
HOMEDENS	Housing_Density	Average homes per acre in watershed	homes per acre	homes per km2
HYPSO	Hypsometric_Area_Ratio	Single-valued index equal to the ratio of the area under the normalized hypsometric curve	dimensionless	dimensionless
I24H100Y	24_Hour_100_Year_Precipitation	Maximum 24-hour precipitation that occurs on average once in 100 years	inches	mm
I24H100YA2	24_Hour_100_Year_Precipitation_Atlas2	Maximum 24-hour precipitation that occurs on average once in 100 years from NOAA Atlas 2	inches	mm
I24H10Y	24_Hour_10_Year_Precipitation	Maximum 24-hour precipitation that occurs on average once in 10 years	inches	mm
I24H25Y	24_Hour_25_Year_Precipitation	Maximum 24-hour precipitation that occurs on average once in 25 years	inches	mm
I24H2Y	24_Hour_2_Year_Precipitation	Maximum 24-hour precipitation that occurs on average once in 2 years - Equivalent to precitation intensity index	inches	mm
I24H500Y	24_Hour_500_Year_Precipitation	Maximum 24-hour precipitation that occurs on average once in 500 years	inches	mm
I24H50Y	24_Hour_50_Year_Precipitation	Maximum 24-hour precipitation that occurs on average once in 50 years	inches	mm
I24H5Y	24_Hour_5_Year_Precipitation	Maximum 24-hour precipitation that occurs on average once in 5 years	inches	mm
I2H2Y	2_Hour_2_Year_Precipitation	Maximum 2-hour precipitation that occurs on average once in 2 years	inches	mm
I48H100Y	48_Hour_100_Year_Precipitation	Maximum 48-hour precipitation that occurs on average once in 100 years	inches	mm

I48H10Y	48_Hour_10_Year_Precipitation	Maximum 48-hour precipitation that occurs on average once in 10 years	inches	mm
I48H25Y	48_Hour_25_Year_Precipitation	Maximum 48-hour precipitation that occurs on average once in 25 years	inches	mm
I48H2Y	48_Hour_2_Year_Precipitation	Maximum 48-hour precipitation that occurs on average once in 2 years	inches	mm
I48H500Y	48_Hour_500_Year_Precipitation	Maximum 48-hour precipitation that occurs on average once in 500 years	inches	mm
I48H50Y	48_Hour_50_Year_Precipitation	Maximum 48-hour precipitation that occurs on average once in 50 years	inches	mm
I48H5Y	48_Hour_5_Year_Precipitation	Maximum 48-hour precipitation that occurs on average once in 5 years	inches	mm
I60M100Y	60_Min_100_Year_Precipitation	Maximum 60-min precipitation that occurs on average once in 100 years	inches	mm
I60M10Y	60_Min_10_Year_Precipitation	Maximum 60-min precipitation that occurs on average once in 10 years	inches	mm
I60M25Y	60_Min_25_Year_Precipitation	Maximum 60-min precipitation that occurs on average once in 25 years	inches	mm
I60M2Y	60_Min_2_Year_Precipitation	Maximum 60-min precipitation that occurs on average once in 2 years	inches	mm
I60M500Y	60_Min_500_Year_Precipitation	Maximum 60-min precipitation that occurs on average once in 500 years	inches	mm
I60M50Y	60_Min_50_Year_Precipitation	Maximum 60-min precipitation that occurs on average once in 50 years	inches	mm
I60M5Y	60_Min_5_Year_Precipitation	Maximum 60-min precipitation that occurs on average once in 5 years	inches	mm
I6H100Y	6_Hour_100_Year_Precipitation	6-hour precipitation that is expected to occur on average once in 100 years	inches	mm
I6H10Y	6_Hour_10_Year_Precipitation	Maximum 6-hour precipitation that occurs on average once in 10 years	inches	mm
I6H25Y	6_Hour_25_Year_Precipitation	Maximum 6-hour precipitation that occurs on average once in 25 years	inches	mm
I6H2Y	6_Hour_2_Year_Precipitation	Maximum 6-hour precipitation that occurs on average once in 2 years	inches	mm
I6H500Y	6_Hour_500_Year_Precipitation	Maximum 6-hour precipitation that occurs on average once in 500 years	inches	mm
I6H50Y	6_Hour_50_Year_Precipitation	Maximum 6-hour precipitation that occurs on average once in 50 years	inches	mm
I6H5Y	6_Hour_5_Year_Precipitation	Maximum 6-hour precipitation that occurs on average once in 5 years	inches	mm
ILREG1	Region_1_Indicator__enter_1	Indicator variable for IL region 1, enter 1 if site is in region 1 else 0	dimensionless	dimensionless
ILREG3	Region_3_Indicator__enter_1	Indicator variable for IL region 3, enter 1 if site is in region 3 else 0	dimensionless	dimensionless
ILREG5	Region_5_Indicator__enter_1	Indicator variable for IL region 5, enter 1 if site is in region 5 else 0	dimensionless	dimensionless
ILREG6	Region_6_Indicator__enter_1	Indicator variable for IL region 6, enter 1 if site is in region 6 else 0	dimensionless	dimensionless
ILREG7	Region_7_Indicator__enter_1	Indicator variable for IL region 7, enter 1 if site is in region 7 else 0	dimensionless	dimensionless
IMPERV	Percent_Impervious	Percentage of impervious area	percent	percent
IMPMD97	Percent_Impervious_MDOP97	Percent area of impervious surfaces from Maryland Dept of Planning 1997 land-use data	percent	percent
IMPNLCD01	Percent_Impervious_NLCD2001	Average percentage of impervious area determined from NLCD 2001 impervious dataset	percent	percent
INSINKHOLE	Percent_Sinkhole_Drainage_Area	Percent Sinkhole drainage area per basin from Indiana Geological Survey.	percent	percent
INSINKING	Percent_Sinking_Stream_Drainage_Area	Percent Sinking stream drainage area from Indiana Geological Survey.	percent	percent
IRRIGAT_MT	Percent_Irrigated_in_Montana	Percent of basin that is irrigated based on Montana Final Land Unit (FLU) classification	percent	percent
JANAVPRE	Mean_January_Precipitation	Mean January Precipitation	inches	mm
JANAVPRE2K	Mean_January_Precipitation_2kRes	Mean January Precipitation from 2k resolution	inches	mm
JANAVTMP	Mean_January_Temperature	Mean January Temperature	degrees F	degrees C
JANMAXT2K	Mean_Maximum_January_Temperature_2Kres	Mean Maximum January Temperature from 2K resolution PRISM 1961-1990 data	degrees F	degrees C
JANMAXTMP	Mean_Maximum_January_Temperature	Mean Maximum January Temperature	degrees F	degrees C
JANMINT2K	Mean_Minimum_January_Temperature_2Kres	Mean Minimum January Temperature from 2K resolution PRISM 1961-1990 data	degrees F	degrees C
JANMINTMP	Mean_Min_January_Temperature	Mean Minimum January Temperature	degrees F	degrees C
JULAVPRE	Mean_July_Precipitation	Mean July Precipitation	inches	mm
JULAVPRE2K	Mean_July_Precipitation_2kRes	Mean July Precipitation from 2k resolution	inches	mm
JULYAVTMP	Mean_July_Temperature	Mean July Temperature	degrees F	degrees C
JULYMAXTMP	Mean_Max_July_Temperature	Mean Maximum July Temperature	degrees F	degrees C
JULYMINTMP	Mean_Minimum_July_Temperature	Mean Minumum July Temperature	degrees F	degrees C
JUNAVPRE	Mean_June_Precipitation	Mean June Precipitation	inches	mm
JUNEAVTMP	Mean_June_Temperature	Mean June Temperature	degrees F	degrees C
JUNMAXTMP	Mean_Max_June_Temperature	Mean Maximum June Temperature	degrees F	degrees C
K1INDNR	Avg_Hydraulic_Conductivity_Upper_70ft	Average hydraulic conductivity (ft/d) for the top 70 ft of unconsolidated deposits from InDNR well database.	ft per day	m per day
K2INDNR	Avg_Hydraulic_Conductivity_Full_Depth	Average hydraulic conductivity (ft/d) for the full depth of unconsolidated deposits from InDNR well database.	ft per day	m per day
KYVARIND10	KY_Streamflow_Variability_Index_2010	Mapped streamflow-variability index as defined in SIR 2010-5217	dimensionless	dimensionless
KYVARIND93	KY_Streamflow_Variability_Index_1993	Mapped streamflow variability index as defined in WRIR 92-4173	dimensionless	dimensionless
LAGFACTOR	Lag_Factor	Lag Factor as defined in SIR 2006-5112	dimensionless	dimensionless
LAKEAREA	Percent_Lakes_and_Ponds	Percentage of Lakes and Ponds	percent	percent
LAKESNHDH	Percent_Lakes_from_NHDH	Percent of basin in lakes, ponds, and reservoirs fom high resolution National Hydrography Dataset	percent	percent
LAKESp1	Percent_Lakes_add_1_MN_ROI_Parm	Percent Lakes plus 1 (MN ROI Parm)	percent	percent
LAT_CENT	Latitude_of_Basin_Centroid	Latitude of Basin Centroid	decimal degrees	decimal degrees
LAT_GAGE	Latitude	Latitude	decimal degrees	decimal degrees
LAT_NHD	Latitude_on_NHD	Latitude of station location on National Hydrography Dataset	degrees C	degrees
LAT_OUT	Latitude_of_Basin_Outlet	Latitude of Basin Outlet	degrees C	degrees
LC01BARE	Barren_Land_NLCD_2001	Percentage of area barren land, NLCD 2001 category 31	percent	percent
LC01CANOPY	Percent_Tree_Canopy_NLCD2001	Percentage of drainage area covered by tree canopy from NLCD 2001	percent	percent
LC01CROP	Cultivated_Crops_NLCD_2001	Percentage of area cultivated crops, NLCD 2001 category 82	percent	percent
LC01CRPHAY	Percent_Crops_and_Hay_from_NLCD2001	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2001	percent	percent
LC01DEV	Percent_Developed_from_NLCD2001	Percentage of land-use from NLCD 2001 classes 21-24	percent	percent

LC01DEVHI	High_developed_NLCD_2001	Percentage of area developed, high intensity, NLCD 2001 category 24	percent	percent
LC01DEVMD	Medium_developed_NLCD_2001	Percentage of area developed, medium intensity, NLCD 2001 category 23	percent	percent
LC01EVERG	Evergreen_Forest_NLCD_2001	Percentage of area evergreen forest, NLCD 2001 category 42	percent	percent
LC01FOREST	Percent_Forest_from_NLCD2001	Percentage of forest from NLCD 2001 classes 41-43	percent	percent
LC01IMP	Percent_Impervious_NLCD2001	Average percentage of impervious land cover from NLCD 2001	percent	percent
LC01OPNLO	Open_and_Low_NLCD_2001	Percentage of area developed, open space and low intensity combined, NLCD2001 cat. 21 and 22	percent	percent
LC01SHRUB	Percent_Shrub_from_NLCD2001	Percentage of shrub scrub from NLCD 2001 class 52	percent	percent
LC01WETLND	Percent_Wetlands_from_NLCD2001	Percentage of wetlands, classes 90 and 95, from NLCD 2001	percent	percent
LC06AGRI	Percent_Agriculture_from_NLCD_2006	Percent agriculture computed as total of grass, pasture, and crops, NLCD classes 71, 81 and 82	percent	percent
LC06ALTFOR	Alternate_Forest_Percentage	Percentage of forested land area from NLCD2006 classes 22, 41-43 and 90	percent	percent
LC06BARE	Percent_Barren_from_NLCD2006	Percentage of barren from NLCD 2006 class 31	percent	percent
LC06BARSCB	Percent_Barren_and_Scrub_from_NLCD_2006	Percentage of barren and scrub land from NLCD classes 31, 51, and 52	percent	percent
LC06CROP	Percent_Cultivated_Crops_from_NLCD2006	Percentage of area of cultivated crops from NLCD 2006 class 82	percent	percent
LC06DECID	Percent_Deciduous_from_NLCD2006	Percentage of deciduous forest from NLCD 2006 class 41	percent	percent
LC06DEV	Percent_Developed_from_NLCD2006	Percentage of land-use from NLCD 2006 classes 21-24	percent	percent
LC06DEVHI	Percent_High_Developed_from_NLCD2006	Percentage of area developed, high intensity, NLCD 2006 class 24	percent	percent
LC06DVLO	Percent_Low_Developed_from_NLCD2006	Percentage of developed area, low intensity, from NLCD 2006 class 22	percent	percent
LC06DVMD	Percent_Medium_developed_NLCD_2006	Percentage of area developed, medium intensity, NLCD 2006 class 23	percent	percent
LC06DVMDHI	Percent_Medium_High_developed_NLCD_2006	Percentage of area developed, medium and high intensity, NLCD 2006 classes 23 and 24	percent	percent
LC06DVOPN	Percent_Open_Developed_from_NLCD2006	Percentage of developed open area from NLCD 2006 class 21	percent	percent
LC06EMWET	Percent_Emergent_Wetlands_from_NLCD2006	Percentage of area of emergent herbaceous wetlands from NLCD 2006 class 95	percent	percent
LC06EVERG	Percent_Evergreen_Forest_NLCD_2006	Percentage of evergreen forest from NLCD 2006 class 42	percent	percent
LC06FOREST	Percent_Forest_from_NLCD2006	Percentage of forest from NLCD 2006 classes 41-43	percent	percent
LC06GRASS	Percent_Grassland_from_NLCD2006	Percentage of grassland from NLCD 2006 class 71	percent	percent
LC06IMP	Percent_Impervious_NLCD2006	Average percentage of impervious area determined from NLCD 2006 impervious dataset	percent	percent
LC06MIXFOR	Percent_Mixed_Forest_from_NLCD2006	Percentage of mixed deciduous and evergreen forest from NLCD 2006 class 43	percent	percent
LC06PAST	Percent_Pasture_from_NLCD2006	Percentage of area of pasture area from NLCD 2006 class 81	percent	percent
LC06SHRUB	Percent_Shrub_from_NLCD2006	Percentage of shrub scrub from NLCD 2006 class 52	percent	percent
LC06STOR	Percent_Storage_from_NLCD2006	Percentage of water bodies and wetlands determined from the NLCD 2006	percent	percent
LC06WATER	Percent_Water_from_NLCD2006	Percent of open water, class 11, from NLCD 2006	percent	percent
LC06WDWET	Percent_Woody_Wetlands_from_NLCD2006	Percentage of area of wooded wetlands from NLCD 2006 class 90	percent	percent
LC11CRPHAY	Percent_Crops_and_Hay_from_NLCD2011	Percentage of cultivated crops and hay, classes 81 and 82, from NLCD 2011	percent	percent
LC11DEV	Percent_Developed_from_NLCD2011	Percentage of developed (urban) land from NLCD 2011 classes 21-24	percent	percent
LC11DVOPN	Percent_Open_Developed_from_NLCD2011	Percentage of developed open area from NLCD 2011 class 21	percent	percent
LC11FOREST	Percent_Forest_from_NLCD2011	Percentage of forest from NLCD 2011 classes 41-43	percent	percent
LC11IMP	Percent_Impervious_NLCD2011	Average percentage of impervious area determined from NLCD 2011 impervious dataset	percent	percent
LC11PAST	Percent_Pasture_from_NLCD2011	Percentage of area of pasture area from NLCD 2011 class 81	percent	percent
LC92STOR	Percent_Storage_from_NLCD1992	Percentage of water bodies and wetlands determined from the NLCD	percent	percent
LENGTH	Main_Channel_Length	Length along the main channel from the measuring location extended to the basin divide	miles	km
LFPLENGTH	LFP_length	Length of longest flow path	miles	km
LIME	Percent_Limestone	Percentage of area of limestone geology	percent	percent
LNG_GAGE	Longitude	Longitude	decimal degrees	decimal degrees
LOESSDEP	Loess_Depth	Depth of loess deposits	feet	m
LOGDA	Log_of_Drainage_Area	Logarithm base 10 of drainage area	Log base 10	Log base 10
LONG_CENT	Longitude_of_Basin_Centroid	Longitude Basin Centroid	decimal degrees	decimal degrees
LONGESTFP	Longest_Flow_Path	Longest distance along stream from site of interest to top of basin	miles	km
LONG_OUT	Longitude_of_Basin_Outlet	Longitude of Basin Outlet	degrees C	degrees
LON_NHD	Longitude_on_NHD	Longitude of station location on National Hydrography Dataset	degrees C	degrees
LOWEQU	Low_Flow_Regression_Equation	Indicates whether the site was used to develop low-flow regression equations	Yes or No	Yes or No
LOWREG	Low_Flow_Region_Code	Low-Flow Hydrologic Region code	dimensionless	dimensionless
LSTPERM	Least_Permeable_Layer_Permeability	Permeability of least permeable layer	inches per hour	mm per hr
LU92BARE	Percent_Barren_from_NLCD1992	Percent Barren from NLCD1992	percent	percent
LU92DEV	Percent_Developed_from_NLCD92	Percentage of developed land-use categories 21-24 from NLCD 1992	percent	percent
LU92FORUP	Percent_Forested_Upland_from_NLCD1992	Percent Forested Upland from NLCD1992	percent	percent
LU92HRBC	Percent_Cult_Herb_Upland_from_NLCD1992	Percent Cultivated Herbaceous Upland from NLCD1992	percent	percent
LU92HRBN	Percent_Nat_Herb_Upland_from_NLCD1992	Percent Natural Herbaceous Upland from NLCD1992	percent	percent
LU92PLANT	Percent_Planted_from_NLCD1992	Percentage of planted area from NLCD 1992 classes 81 to 85	percent	percent
LU92WATER	Percent_Water_from_NLCD1992	Percent Water from NLCD1992	percent	percent
LU92WETLN	Percent_Wetland_from_NLCD1992	Percent Wetland from NLCD1992	percent	percent
MAPM	Mean_Annual_Precip_Basin_Average	Mean Annual Precip Basin Average	inches	mm
MAR	Mean_Annual_Runoff_in_inches	Mean annual runoff for the period of record in inches	inches	mm
MARAVPRE	Mean_March_Precipitation	Mean March Precipitation	inches	mm
MARAVTMP	Mean_March_Temperature	Mean March Temperature	degrees F	degrees C

MARCFSM	Mean_Annual_Runoff_in_cfsm	Mean annual runoff for the period of record in cubic feet persecond	cubic feet per second per square mile	cubic meters per second per square kilometer
MAREGION	Massachusetts_Region	Region of Massachusetts 0 for Eastern 1 for Western	dimensionless	dimensionless
MAXBSLOPD	Maximum_Basin_Slope_in_deg	Maximum basin slope, in degrees, using ArcInfo Grid with NHDPlus 30-m resolution elevation data.	degrees C	degrees
MAXTEMP	Mean_Annual_Max_Temperature	Mean annual maximum air temperature over basin area from PRISM 1971-2000 800-m grid	degrees F	degrees C
MAYAVPRE	Mean_May_Precipitation	Mean May Precipitation	inches	mm
MAYAVTMP	Mean_May_Temperature	Mean May Temperature	degrees F	degrees C
MCSP	Main_Channel_Slope_Proportion	Main channel slope proportion computed by Basinsoft as main channel length divided by the square root of the main channel slope	dimensionless	dimensionless
MCSRBSFT	Main_Channel_Sinuosity_Ratio	Main-channel sinuosity ratio computed by Basinsoft as main channel length divided by basin length	dimensionless	dimensionless
MDAREA	Drainage_Area_in_Maryland	Drainage area of the basin within the State of Maryland	square miles	km2
MEDTILL	Percent_Medium_Till	Percentage of area of medium-textured glacial till	percent	percent
MINBELEV	Minimum_Basin_Elevation	Minimum basin elevation	feet	m
MINBSLOPD	Minimum_Basin_Slope_in_deg	Minimum basin slope, in degrees, using ArcInfo Grid with NHDPlus 30-m resolution elevation data.	degrees C	degrees
MINTEMP	Mean_Annual_Min_Temperature	Mean annual minimum air temperature over basin area from PRISM 1971-2000 800-m grid	degrees F	degrees C
MINTEMP_W	Mean_Winter_Min_Temperature	Mean winter minimum air temperature over basin surface area	degrees F	degrees C
MIXFOR	Percent_Mixed_Forest	Percentage of land area covered by mixed deciduous and coniferous forest	percent	percent
MONREG	Monthly_and_Annual_Region_Code	Monthly and Annual Hydrologic Region code	dimensionless	dimensionless
MORTILL	End_Moraines_of_Fine_Textured_Till	Percentage of End Moraines of Fine-Textured Till	percent	percent
MSTPERM	Most_Permeable_Layer_Permeability	Permeability of the most permeable layer	inches per hour	mm per hr
MUCK	Percent_Peat_and_Muck	Percentage of area of peat and muck	percent	percent
MXSNO	Median_Seasonal_Maximum_Snow_Depth	50th percentile of seasonal maximum snow depth from Northeast Regional Climate Center atlas by Cember and Wilks, 1993	inches	mm
NCMR	North_Carolina_Mean_Annual_Runoff	North Carolina mean annual runoff	cubic feet per second per square mile	cubic meters per second per square kilometer
NDAY_REC	Number_of_days_of_record	Number of days of record	days	days
NDAYSGT0	Number_of_days_GT_0	Number of days with flow greater than zero	days	days
NFSL30_30M	N_Facing_Slopes_gt_30pct_from_30m_DEM	Percent area with north-facing slopes greater than 30 percent from 30-meter DEM.	percent	percent
NOFORWET	Percent_Nonforested_Wetlands	Percentage of land area covered by non-forested wetlands - source not specified	percent	percent
NOVAVPRE	Mean_November_Precipitation	Mean November Precipitation	inches	mm
NOVAVTMP	Mean_November_Temperature	Mean November Temperature	degrees F	degrees C
NYMAR	New_York_Mean_Annual_Runoff	New York mean annual runoff from Randall (1996)	inches	mm
NY_UNDFLOW	NY_Underflow_Factor	Rate of underflow downvalley through sand and gravel according to NY 2010-5063	dimensionless	dimensionless
OCTAVPRE	Mean_October_Precipitation	Mean October Precipitation	inches	mm
OCTAVTMP	Mean_October_Temperature	Mean October Temperature	degrees F	degrees C
OHCLFAC100	Ohio_Climate_Factor_100_Year	Ohio Climate Factor 100 Year	dimensionless	dimensionless
OHCLFAC2	Ohio_Climate_Factor_2_Year	Ohio Climate Factor 2 Year	dimensionless	dimensionless
OHCLFAC25	Ohio_Climate_Factor_25_Year	Ohio Climate Factor 25 Year	dimensionless	dimensionless
OH_INF_IND	Ohio_Infiltration_Index	Index of relative infiltration from Koltun(1986)	dimensionless	dimensionless
OHPHYSSECT	Ohio_Physiographic_Sections	Ohio Physiographic Sections	dimensionless	dimensionless
OHREGA	Ohio_Region_A_Indicator_1_if_in_A_else_0	Ohio Region A Indicator	dimensionless	dimensionless
OHREGC	Ohio_Region_C_Indicator_1_if_in_C_else_0	Ohio Region C Indicator	dimensionless	dimensionless
OHREG_CODE	Ohio_Flood_Region_Letter_Code	Ohio Flood Region Letter Code	dimensionless	dimensionless
OmegaEM	OmegaEM_residual_from_2009_5087	Generalized regression residual as defined in TX SIR 2009-5087	dimensionless	dimensionless
ORDOMISS	Percent_SurficialGeology_Ordo_and_Miss	Percent Surficial Geology as Ordovician and Mississippian Rocks	percent	percent
OR_HIPERMA	OR_Percent_HighPerm_Aquifer	Percent basin surface area containing high permeability aquifer units as defined in SIR 2008-5126	percent	percent
OR_HIPERMG	OR_Percent_HighPerm_Geologic	Percent basin surface area containing high permeability geologic units as defined in SIR 2008-5126	percent	percent
OTHEQU	Other_Regression_Equation	Indicates whether the site was used to develop regression equations for other than high or low flows	Yes or No	Yes or No
OUTLETELEV	Elevation_at_Outlet	Elevation of the stream outlet in feet above NAVD88.	feet	m
OUTLETX	Basin_Outlet_X	Basin outlet horizontal (x) location in state plane coordinates	State plane coordinates	State plane coordinates
OUTLETXRI	Basin_Outlet_X_RI	Basin outlet horizontal (x) location in Rhode Island state plane coordinates	State plane coordinates	State plane coordinates
OUTLETY	Basin_Outlet_Y	Basin outlet vertical (y) location in state plane coordinates	State plane coordinates	State plane coordinates
OUTLETYRI	Basin_Outlet_Y_RI	Basin outlet vertical (y) location in Rhode Island state plane coordinates	State plane coordinates	State plane coordinates
OUTWASH	Percent_Outwash	Percentage of area of outwash	percent	percent
PCLAY	Percent_Lacustrine_Clay_and_Silt	Percentage of lacustrine clay and silt	percent	percent
PCTREG1	Percent_Area_in_Region_1	Percentage of drainage area located in Region 1	percent	percent
PCTREG2	Percent_Area_in_Region_2	Percentage of drainage area located in Region 2	percent	percent
PCTREG2011	Percent_Upstream_Reservoirs_2011	Percent of the basin which lies upstream from reservoirs in 2011	percent	percent

PCTREG3	Percent_Area_in_Region_3	Percentage of drainage area located in Region 3	percent	percent
PCTREG4	Percent_Area_in_Region_4	Percentage of drainage area located in Region 4	percent	percent
PCTREG5	Percent_Area_in_Region_5	Percentage of drainage area located in Region 5	percent	percent
PCTSNDGRV	Percent_Underlain_By_Sand_And_Gravel	Percentage of land surface underlain by sand and gravel deposits	percent	percent
PERENNIAL	Perennial_Stream_Flag_1_if_peren_else_0	Stream characterized as having flow at all times	dimensionless	dimensionless
PERM12IN	Soil_permeability_top_12_in	Area-weighted average soil permeability for top 12 inches of soil	inches per hour	mm per hr
PERM24IN	Soil_permeability_top_24_in	Area-weighted average soil permeability for top 24 inches of soil	inches per hour	mm per hr
PERMGTE2IN	Percent_permeability_gte_2_in_per_hr	Percent of area underlain by soils with permeability greater than or equal to 2 inches per hour	percent	percent
PERMSSUR	Average_Soil_Permeability_from_SSURGO	Area-weighted average soil permeability from NRCS SSURGO database	inches per hour	mm per hr
PFLATLOW	Flat_Lands_Below_Median_Elevation	Flat lands lower than median elevation from Wolock 2003 unpublished data	percent	percent
PII_SD	S_Dakota_Precipitation_Intensity_Index	Maximum 24-hour precipitation that occurs on average once in 2 years minus 1.5 inches	inches	mm
PKDPTH10	Ten_Year_Flood_Depth	Depth of the 10-year flood discharge in feet above the baseline_depth.	feet	m
PKDPTH100	One_Hundred_Year_Flood_Depth	Depth of the 100-year flood discharge in feet above the baseline_depth.	feet	m
PKDPTH2	Two_Year_Flood_Depth	Depth of the 2-year flood discharge in feet above the baseline_depth.	feet	m
PKDPTH25	Twenty_Five_Year_Flood_Depth	Depth of the 25-year flood discharge in feet above the baseline_depth.	feet	m
PKDPTH50	Fifty_Year_Flood_Depth	Depth of the 50-year flood discharge in feet above the baseline_depth.	feet	m
PKDPTH500	Five_Hundred_Year_Flood_Depth	Depth of the 500-year flood discharge in feet above the baseline_depth.	feet	m
PLCHSWAMP	Percent_Length_of_Main_Channel_Swamps	Percentage of the main channel length that flows through swamps	percent	percent
PMPE	Precip_Minus_Potential_Evap	Precipitation minus potential evaporation from Wolock 2003 unpublished data	millimeters (non-converting)	millimeters (non-converting)
POPDENS	Basin_Population_Density	Basin Population Density	persons per square mile	persons per km2
PRCWINTER	Mean_Annual_Winter_Precipitation	Mean annual precipitation for December through February	inches	mm
PRDECFEB00	Basin_Ave_Precip_Dec_Feb_PRISM_2000	Basin average mean precipitation for December to February from PRISM 1971-2000	inches	mm
PRDECFEB90	Basin_Ave_Precip_Dec_Feb_PRISM_1990	Basin average mean precipitation for December to February from PRISM 1961-1990	inches	mm
PRE0611	Mean_Annual_Precipitation_Jun_to_Nov	Mean precipitation for June through November	inches	mm
PRE1205	Mean_Annual_Precipitation_Dec_to_May	Mean precipitation for December through May	inches	mm
PREBC0103	Jan_to_Mar_Basin_Centroid_Precip	Mean annual precipitation of basin centroid for January 1 to March 15 winter period	inches	mm
PREBC_1112	Nov_to_Dec_Basin_Centroid_Precip	Mean annual precipitation of basin centroid for November 1 to December 31 period	inches	mm
PREC10to4	Mean_Oct_to_Apr_Precipitation	Mean precipitation for winter period defined as October to April	inches	mm
PRECIP	Mean_Annual_Precipitation	Basinwide mean annual precipitation	inches	mm
PRECIPCENT	Mean_Annual_Precip_at_Basin_Centroid	Mean Annual Precip at Basin Centroid	inches	mm
PRECIPMS	Mean_Annual_Precipitation_Monthly_Sums	Mean annual precipitation computed from monthly sums	inches	mm
PRECIPOUT	Mean_Annual_Precip_at_Gage	Mean annual precip at the stream outlet (based on annual PRISM precip data in inches from 1971-2000)	inches	mm
PRECless35	Mean_Annual_Precip_less_35_LA_ROI_Parm	Mean Annual Precip - 35 (LA ROI Parm)	inches	mm
PRECPRIS00	Mean_Annual_Precip_PRISM_1971_2000	Basin average mean annual precipitation for 1971 to 2000 from PRISM	inches	mm
PRECPRIS10	Mean_Annual_Precip_PRISM_1981_2010	Basin average mean annual precipitation for 1981 to 2010 from PRISM	inches	mm
PREG_03_05	Mar_to_May_Gage_Precipitation	Mean precipitation at gaging station location for March 16 to May 31 spring period	inches	mm
PREG_06_10	Jun_to_Oct_Gage_Precipitation	Mean precipitation at gaging station location for June to October summer period	inches	mm
PREG_11_05	Nov_to_May_Gage_Precipitation	Mean monthly precipitation for November through May at the stream outlet	inches	mm
PREMARAPR	Basin_Ave_Rainfall_Mar_Apr	Precipitation March-April basin average, mean monthly as defined in SIR 2008-5065	inches	mm
PRENOVDEC	Basin_Ave_Rainfall_Nov_Dec	Precipitation November-December basin average, mean monthly as defined in SIR 2008-5065	inches	mm
PRJULDEC10	Basin_Ave_Precip_Jul_Dec_PRISM_2010	Basin average mean precipitation for July to December from PRISM 1981-2010	inches	mm
PRJUNAUG00	Basin_Ave_Rainfall_June_Aug_PRISM_2000	Mean seasonal precipitation June to August, basin average from PRISM 1971-2000	inches	mm
PRNOVAPR00	Basin_Ave_Rainfall_Nov_Apr_PRISM_2000	Precipitation November-April basin average, mean seasonal from PRISM 1971-2000	inches	mm
PRNOVAPR90	Basin_Ave_Rainfall_Nov_Apr_PRISM_1990	Precipitation November-April basin average, mean seasonal from PRISM 1961-1990	inches	mm
PRSEPNOV00	Basin_Ave_Precip_Sept_Nov_PRISM_2000	Basin average mean precipitation for September to November from PRISM 1971-2000	inches	mm
PSFSLp1	Pct_South_Facing_Slopes_add_1_ID_ROI	Pct. South Facing Slopes plus 1 (ID ROI Parm)	percent	percent
QSSPERMTHK	Permeability_Index	Index of the permeability of surficial Quaternary sediments computed as in SIR 2014-5177	dimensionless	dimensionless
RCHRG_ANN	GW_Recharge_Ann	Annual ground water recharge rate	inches	mm
RCHRG_FAL	GW_Recharge_Nov_to_Dec	Ground water recharge rate during fall season November 1 to December 31	inches	mm
RCHRG_SPR	GW_Recharge_Mar16_to_May	Ground water recharge rate during spring season March 16 to May 31	inches	mm
RCHRG_SUM	GW_Recharge_Jun_to_Oct	Ground water recharge rate during summer season June 1 to October 31	inches	mm
RCHRG_WIN	GW_Recharge_Jan_to_Mar15	Ground water recharge rate during winter season January 1 to March 15	inches	mm
RELIEF	Relief	Maximum - minimum elevation	feet	m
RELRELF	Relative_Relief	Basin relief divided by basin perimeter	feet per mi	m per km
RELRELFff	Relative_Relief_ft_per_ft	Basin relief divided by basin perimeter in ft per ft	dimensionless	dimensionless
RESMD97	Percent_Residential_MDOP97	Percent area of residential land use from Maryland Dept of Planning 1997 land-use data	percent	percent
ROCKDEP	Depth_to_Rock	Depth to rock	feet	m
ROIREGN	ROI_Region_ID	ID for the radius of Influence region	dimensionless	dimensionless
ROTUND	Rotundity	Rotundity computed as 0.785 times shape factor (SHAPE)	dimensionless	dimensionless
ROTUNDBSFT	Rotundity_of_Basin_from_Basinsoft	Rotundity of basin from Basinsoft computed as 0.785 times shape factor	dimensionless	dimensionless
RRMEAN	Relief_Ratio_Mean	Relief ratio defined as (ELEV-MINBELEV)/(ELEVMAX-MINBELEV)	dimensionless	dimensionless
RSD	Relative_Stream_Density	Relative stream density first defined in SIR 2012_5171	dimensionless	dimensionless

RUGGED	Ruggedness_Number	Ruggedness number computed as stream density times basin relief	feet per mi	m per km
SANDGRAV	Fraction_Underlain_By_Sand_And_Gravel	Fraction of land surface underlain by sand and gravel deposits	dimensionless	dimensionless
SANDGRAVAF	Fraction_of_Sand_and_Gravel_Aquifers	Fraction of land surface underlain by sand and gravel aquifers	dimensionless	dimensionless
SANDGRAVAP	Percentage_of_Sand_and_Gravel_Aquifers	Percentage of land surface underlain by sand and gravel aquifers	percent	percent
SEPAVPRE	Mean_September_Precipitation	Mean September Precipitation	inches	mm
SEPAVTMP	Mean_September_Temperature	Mean September Temperature	degrees F	degrees C
SHAPEBSFT	Shape_Factor_from_Basinsoft	Shape factor from Basinsoft computed as basin length divided by basin width	dimensionless	dimensionless
SLENRAT	Slenderness_Ratio	Main channel length - squared - divided by the contributing drainage area	dimensionless	dimensionless
SLOP30_10M	Slopes_gt_30pct_from_10m_NED	Percent area with slopes greater than 30 percent from 10-meter NED	percent	percent
SLOP30_30M	Slopes_gt_30pct_from_30m_DEM	Percent area with slopes greater than 30 percent from 30-meter DEM.	percent	percent
SLOP50	Slopes_Greater_Than_50_Percent	Slopes Greater Than 50 Percent as percent of drainage area	percent	percent
SLOP50_30M	Slopes_gt_50pct_from_30m_DEM	Percent area with slopes greater than 50 percent from 30-meter DEM.	percent	percent
SLOPERAT	Slope_Ratio	Slope ratio computed as main channel slope divided by basin slope	dimensionless	dimensionless
SLOPERATIO	Slope_Ratio_NY	Ratio of main channel slope to basin slope as defined in SIR 2006-5112	dimensionless	dimensionless
SLPFM3D	LFP_slope_3Dline	Change in elevation divided by length between points 10 and 85 percent of distance along the longest flow path to the basin divide, LFP from 3D grid	feet per mi	m per km
SN10	10_Yr_Max_Mar_15_Snow_Water_Equiv	Maximum March 15 Water Equivalent of Snow Cover at 10-Year Recurrence Interval	inches	mm
SN100	100_Yr_Max_Mar_15_Snow_Water_Equiv	Maximum March 15 Water Equivalent of Snow Cover at 100-Year Recurrence Interval	inches	mm
SN2	2_Yr_Max_Mar_15_Snow_Water_Equiv	Maximum March 15 Water Equivalent of Snow Cover at 2-Year Recurrence Interval	inches	mm
SN25	25_Yr_Max_Mar_15_Snow_Water_Equiv	Maximum March 15 Water Equivalent of Snow Cover at 25-Year Recurrence Interval	inches	mm
SNOAPR	April_Mean_Snow_Water_Equiv	Mean Water Equivalent of Snow Cover in April	inches	mm
SNOFALL	Mean_Annual_Snowfall	Mean Annual Snowfall	inches	mm
SNOMAR	March_Snow_Water_Equivalent	Mean Water Equivalent of Snow Cover in March	inches	mm
SOILA	Percent_Hydrologic_Soil_Type_A	Percentage of area of Hydrologic Soil Type A	percent	percent
SOILCorD	Percent_SSURGO_Soil_Type_C_or_D	Percentage of area of Hydrologic Soil Type C or D from SSURGO	percent	percent
SOILD	Percent_Hydrologic_Soil_Type_D	Percentage of area of Hydrologic Soil Type D	percent	percent
SOILINDEX	Mean_Basin_Hydrologic_Soils_Index	Mean STATSGO Hydrologic Soils Index (from PL. 2 WRIR 03-4107 for WY)	dimensionless	dimensionless
SOIL_INF	Soil_Infiltration	Soil infiltration index from NRCS	inches	mm
SOILPERM	Average_Soil_Permeability	Average Soil Permeability	inches per hour	mm per hr
SRUN01	Mean_January_Surface_Water_Runoff	Mean January surface-water runoff	inches	mm
SRUN02	Mean_February_Surface_Water_Runoff	Mean February surface-water runoff	inches	mm
SRUN03	Mean_March_Surface_Water_Runoff	Mean March surface-water runoff	inches	mm
SRUN04	Mean_April_Surface_Water_Runoff	Mean April surface-water runoff	inches	mm
SRUN05	Mean_May_Surface_Water_Runoff	Mean May surface-water runoff	inches	mm
SRUN06	Mean_June_Surface_Water_Runoff	Mean June surface-water runoff	inches	mm
SRUN0611	Mean_Surface_Runoff_Jun_to_Nov	Mean annual dry season surface runoff, June through November	inches	mm
SRUN07	Mean_July_Surface_Water_Runoff	Mean July surface-water runoff	inches	mm
SRUN08	Mean_August_Surface_Water_Runoff	Mean August surface-water runoff	inches	mm
SRUN09	Mean_September_Surface_Water_Runoff	Mean September surface-water runoff	inches	mm
SRUN10	Mean_October_Surface_Water_Runoff	Mean October surface-water runoff	inches	mm
SRUN11	Mean_November_Surface_Water_Runoff	Mean November surface-water runoff	inches	mm
SRUN12	Mean_December_Surface_Water_Runoff	Mean December surface-water runoff	inches	mm
SRUN1205	Mean_Surface_Runoff_Dec_to_May	Mean annual wet season surface runoff, December through May	inches	mm
SRUNMS	Mean_Annual_SW_Runoff_Monthly_Sums	Mean annual surface-water runoff computed from monthly sums	inches	mm
SSURGINDEX	SSURGO_Soil_Index	Soil index determined from the propostion of soil types A through D and infiltration capacity from SSURGO	dimensionless	dimensionless
SSURGOA	SSURGO_Percent_Hydrologic_Soil_Type_A	Percentage of area of Hydrologic Soil Type A from SSURGO	percent	percent
SSURGOB	SSURGO_Percent_Hydrologic_Soil_Type_B	Percentage of area of Hydrologic Soil Type B from SSURGO	percent	percent
SSURGOC	SSURGO_Percent_Hydrologic_Soil_Type_C	Percentage of area of Hydrologic Soil Type C from SSURGO	percent	percent
SSURGOD	SSURGO_Percent_Hydrologic_Soil_Type_D	Percentage of area of Hydrologic Soil Type D from SSURGO	percent	percent
SSURGOKSAT	SSURGO_Saturated_Hydraulic_Conductivity	Saturated hydraulic conductivity in micrometers per second from NRCS SSURGO database	micrometers per second	micrometers per second
SSURGOM	Percent_SSURGO_Soil_Organic_Matter	Percentage of organic matter in soils from SSURGO	percent	percent
SSURGWDRN	Percent_Well_Drained_Soil_from_SSURGO	Percentage of well drained soil, from SSURGO	percent	percent
ST2INDNR	Avg_Transmissivity_Near_Channel	Average transmissivity (ft2/d) for the full depth of unconsolidated deposits within 1000 ft of stream channel from IN DNR well database.	square feet per day	square meters per day
STATE	State_Code	State code	dimensionless	dimensionless
STATSCLAY	STATSGO_Percentage_of_Clay_Soils	Percentage of clay soils from STATSGO	percent	percent
STATSDQUAL	Drainage_Quality_Index_from_STATSGO	Drainage quality index from STATSGO, see http://water.usgs.gov/GIS/metadata/usgswrd/XML/ussoils.xml#Entity_and_Attribute_Information	dimensionless	dimensionless
STATSGOA	STATSGO_Percent_Hydrologic_Soil_Type_A	Percentage of area of Hydrologic Soil Type A from STATSGO	percent	percent
STATSGOD	STATSGO_Percent_Hydrologic_Soil_Type_D	Percentage of area of Hydrologic Soil Type D from STATSGO	percent	percent
STATSGODEP	Average_Soil_Depth_from_STATSGO	Area-weighted average soil depth from NRCS STATSGO database	inches	mm
STATSGORO	Drainage_Runoff_Number_STATSGO	Drainage runoff number from STATSGO database where 1 is well and 7 is poor	dimensionless	dimensionless
STATSPERM	Average_Soil_Permeability_from_STATSGO	Area-weighted average soil permeability from NRCS STATSGO database	inches per hour	mm per hr
STORAGE	Percent_Storage	Percentage of area of storage (lakes ponds reservoirs wetlands)	percent	percent

STORAGEp1	Percent_Storage_add_1_MN_ROI_Parm	Percent Storage plus 1 (MN ROI Parm)	percent	percent
STORDELU	Percent_Storage_from_DE_Dataset	Percentage of wetlands and water bodies determined from 2003 Delaware land-use dataset	percent	percent
STORMD97	Percent_Storage_MDOP97	Percent area of storage (wetlands and water bodies) from Maryland Dept of Planning 1997 land-use data	percent	percent
STORNHD	Percent_Storage_from_NHD	Percent storage (wetlands and waterbodies) determined from 1:24K NHD	percent	percent
STORNWI	Percentage_of_Storage_from_NWI	Percentage of storage (combined water bodies and wetlands) from the National Wetlands Inventory	percent	percent
STRDEN	Stream_Density	Stream Density -- total length of streams divided by drainage area	miles per square mile	km per km2
STRDENED	Stream_Density_Edited	Stream Density -- total length of streams divided by drainage area, edited from NHD	miles per square mile	km per km2
STREAM_VARG	Streamflow_Variability_Index_from_Grid	Streamflow variability index as defined in WRIR 02-4068, computed from regional grid	dimensionless	dimensionless
STRMTOT	Total_Stream_Length	Total length of mapped streams in basin	miles	km
T2INDNR	Avg_Transmissivity	Average transmissivity (ft2/d) for the full depth of unconsolidated deposits from IN DNR well database.	square feet per day	square meters per day
TAU_ANN_G	Tau_Annual_from_Grid	Tau, Average annual base-flow recession time constant as defined in SIR 2008-5065, estimated from a grid	days	days
TAU_SPR_G	Tau_Mar_Apr_from_Grid	Tau, Average base-flow recession time constant for March through April as defined in SIR 2008-5065, estimated from a grid	days	days
TAU_WIN_G	Tau_Nov_Dec_from_Grid	Tau, Average base-flow recession time constant for November through December as defined in SIR 2008-5065, estimated from a grid	days	days
TEMP	Mean_Annual_Temperature	Mean Annual Temperature	degrees F	degrees C
TEMP_06_10	Jun_to_Oct_Mean_Basinwide_Temp	Basinwide average temperature for June to October summer period	degrees F	degrees C
TILL	Percent_area_of_till	Percent surface area covered by till deposits	percent	percent
TILROCK	Percent_Thin_Till_over_Bedrock	Percentage of area of thin glacial till over bedrock	percent	percent
TIMETOPK	TimeToPeak	TimeToPeak	hours	hours
TNPHYSFAC	Tennessee_Physiographic_Factor	Tenessee physiographic factor, computed as described in WRIR 03-4176, p. 14	dimensionless	dimensionless
TNSOILFAC	Tennessee_Soil_Factor	Tennessee soil factor, percentage of area underlain by a soil permeability greater than or equal to 2 inches per hour	percent	percent
TRUN	Mean_Annual_Total_Runoff	Mean annual total runoff	inches	mm
TRUN01	Mean_January_Total_Runoff	Mean January total runoff	inches	mm
TRUN02	Mean_February_Total_Runoff	Mean February total runoff	inches	mm
TRUN03	Mean_March_Total_Runoff	Mean March total runoff	inches	mm
TRUN04	Mean_April_Total_Runoff	Mean April total runoff	inches	mm
TRUN05	Mean_May_Total_Runoff	Mean May total runoff	inches	mm
TRUN06	Mean_June_Total_Runoff	Mean June total runoff	inches	mm
TRUN0611	Mean_Total_Runoff_Jun_to_Nov	Mean annual dry season total runoff, June through November	inches	mm
TRUN07	Mean_July_Total_Runoff	Mean July total runoff	inches	mm
TRUN0711	Dry_Season_Total_Runoff	Mean annual dry season total runoff, July through November	inches	mm
TRUN08	Mean_August_Total_Runoff	Mean August total runoff	inches	mm
TRUN09	Mean_September_Total_Runoff	Mean September total runoff	inches	mm
TRUN10	Mean_October_Total_Runoff	Mean October total runoff	inches	mm
TRUN11	Mean_November_Total_Runoff	Mean November total runoff	inches	mm
TRUN12	Mean_December_Total_Runoff	Mean December total runoff	inches	mm
TRUN1205	Mean_Total_Runoff_Dec_to_May	Mean annual wet season total runoff, December through May	inches	mm
TRUNMS	Mean_Annual_Total_Runoff_Monthly_Sums	Mean annual total runoff computed from monthly sums	inches	mm
TXURBINDEX	Texas_Urbanization_Index	Urbanization index defined in WRIR 82-18	dimensionless	dimensionless
UPZ	Percent_Upper_Paleozoic	Percentage of the basin covered by upper Paleozoic strata from Reed & Bush (2005)	percent	percent
URBAN	Percent_Urban	Percentage of basin with urban development	percent	percent
URBAN15	Percent_Urban_Greater_Than_15_Percent	Basin with urban development greater than 15 percent	Yes or No	Yes or No
URBTHE2010	Fraction_of_Urban_Land_Theobald_2010	Fraction of drainage area that is in urban classes 7 to 10 from Theobald 2010	decimal fraction	decimal fraction
VALLEN	Valley_Length	Valley length measured along general path of floodplane from the outlet to the basin divide	miles	km
VOLCANIC	Percent_Volcanic	Percent of drainage area as surficial volcanic rocks as defined in SIR 2006-5035	percent	percent
WACTCH	Width_Of_Active_Channel	Width of active channel	feet	m
WATCAP	Available_Water_Capacity	Available water capacity of the top 60 inches of soil - determined from STATSGO data	in per in	mm per mm
WATCAPINIL	Available_Water_Capacity_for_IN_and_IL	Available water capacity from Miller and White 1998 in cm per 100 cm	percent	percent
WATCAPORC	Available_Water_Capacity_OR_Cooper	Available water capacity from STATSGO data using methods from SIR 2005-5116	inches	mm
WATCAPORR	Available_Water_Capacity_OR_Risley	Available water capacity from STATSGO data using methods from SIR 2008-5126	in per in	mm per mm
WATER	Percent_Water_Bodies	Percentage of land area covered by open water - source not specified	percent	percent
WATWET	Percent_Open_Water_&_Herb_Wetland	Percent open water and herbaceous wetland from NLCD	percent	percent
WBANKFULL	Width_Of_Bankfull_Channel	Width of channel at bankfull	feet	m
WE_MAR2	March_water_equivalent_2_year_RI	Water equivalent of snow cover as of the first week in March - 2-year recurrence interval	inches	mm
WETLAND	Percent_Wetlands	Percentage of Wetlands	percent	percent
WETLNDLU06	Percent_Wetlands_from_NLCD2006	Percentage of wetlands from NLCD 2006 classes 90 and 95	percent	percent

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