BOARD OF WATER AND SOIL RESOURCES

PTMApp-Desktop Data Catalog

Revised March 2021

Table 1 PTMApp-Desktop Base Data Geodatabase catalog developed for Minnesota

Data Name	Description	Data Type	Source	Module	Processed In
annual_runoff_depth	Annual runoff depth (inches/year) at HUC-8 scale	Shapefile - Polygon	USGS	Ingest Data	Clip Watershed
asslake	MPCA Assessed Lakes (2018)	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed
assstrm	MPCA Assessed Streams (2018)	Shapefile - Line	MPCA	Ingest Data	Clip Watershed
asswet	MPCA Assessed Wetlands (2018)	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed
bmpstats_web_template	Lookup table for generating default values for PTMApp - Web Scenario Builder	Table	PTMApp	Ingest Data	Clip Watershed
bound_cnty	County Boundaries	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
bound_huc10	HUC10 Watershed Boundary	Shapefile - Polygon	USDA	Ingest Data	Clip Watershed
bound_huc12	HUC12 Watershed Boundary	Shapefile - Polygon	USDA	Ingest Data	Clip Watershed
bound_ms4	MS4 boundaries	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed
bound_muni	Municipality Boundaries	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
bound_sect	PLSS Township, Range, Section Boundaries	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed

Data Name	Description	Data Type	Source	Module	Processed In
bound_state	Minnesota State Boundary	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
bound_tnshp	Township Boundaries	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
bound_wtrdist	Watershed District Boundaries	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
ecoldtyp	Ecological Land Types	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
ecoreg	Ecoregions	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
feedlots	Feedlots in Minnesota	Shapefile - Point	MPCA	Ingest Data	Clip Watershed
flow_dnr	Flow monitoring gages (MnDNR)	Shapefile - Point	MGC	Ingest Data	Clip Watershed
flow_mpca	Flow monitoring gages (MPCA)	Shapefile - Point	MPCA	Ingest Data	Clip Watershed
flow_usgs	Flow monitoring gages within HUC10 (USGS)	Shapefile - Point	USGS	Ingest Data	Clip Watershed
gwsus	Groundwater Susceptibility	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
implake	MPCA Impaired lakes (2018)	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed
impstrm	MPCA Impaired streams (2018)	Shapefile - Line	MPCA	Ingest Data	Clip Watershed
impwet	MPCA Impaired wetlands (2018)	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed

Data Name	Description	Data Type	Source	Module	Processed In
lakes_DNR_auto	MnDNR Autocatchment Lakes	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
landuse	2016 National Land Cover Database (8 Bit signed integer)	Raster	MRLC	Ingest Data	Clip Watershed
mn_rainfall_2	Minnesota Statewide Rainfall - 2yr 24-hr Atlas 14 (32 Bit floating point; Inches X 1000)	Raster	NOAA	Ingest Data	Clip Watershed
mn_rainfall_10	Minnesota Statewide Rainfall - 10yr 24-hr Atlas 14 (32 Bit floating point; Inches X 1000)	Raster	NOAA	Ingest Data	Clip Watershed
nhd_flow	NHD Flowline Data	Shapefile - Line	USGS	Ingest Data	Clip Watershed
nhd_wtrbd	NHD Waterbodies Data	Shapefile - Polygon	USGS	Ingest Data	Clip Watershed
nwi	National Wetland Inventory	Shapefile - Polygon	USFWS	Ingest Data	Clip Watershed
PLSS_Quarter_Quarter_Sections	PLSS Quarter Quarter sections	Shapefile - Polygon	PLSS	Ingest Data	Clip Watershed
poll_sens_ns	Pollution Sensitivity of Near-Surface Materials. (8 bit unsigned integer)	Raster	DNR	Ingest Data	Clip Watershed
roads	Minnesota Trunk Highway system	Shapefile - Line	MnDOT	Ingest Data	Clip Watershed
rroads	Railroads	Shapefile - Line	MnDOT	Ingest Data	Clip Watershed

Data Name	Description	Data Type	Source	Module	Processed In
samp_bio	MPCA Biological Assessment Sites	Shapefile - Point	MPCA	Ingest Data	Clip Watershed
samp_wq	MPCA Water Quality Sampling Locations (Rivers, Streams, and Lakes)	Shapefile - Point	MPCA	Ingest Data	Clip Watershed
soils	US General Soil Map (STATSGO2)	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
ssurgo_polygons	Soil Survey Geographic Data Base	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
surfgeo	Surficial Geology	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
table_treat	Lookup table to match BMP groups and efficiencies	Table	PTMApp	Ingest Data	Clip Watershed
topo	Topography (8 Bit unsigned integer; meter)	Raster	MGC	Ingest Data	Clip Watershed
wellprtct	Wellhead Protection Areas	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
wldrfg	Wildlife Refuge Inventory	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
wma	Wildlife Management Areas	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
wpa	Waterfowl Production Areas	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed

All data was gathered prior to 2020 and is subject to periodic updates. PTMApp users should check with data source for most current data

Abbreviations: HUC – Hydrologic Unit Code; MGC – Minnesota Geospatial Commons; MnDNR – Minnesota Department of Natural Resources; MnDOT – Minnesota Department of Transportation; MPCA – Minnesota Pollution Control Agency; MRLC – Multi-Resolution Land Characteristics Consortium; NOAA – National Oceanic and Atmospheric Administration; PLSS – Public Land Survey System; USDA – United States Department of Agriculture; USFWS – United States Fish and Wildlife Service; USGS – United States Geological Survey

Table 2 PTMApp-Desktop Planning Data Geodatabase catalog. These shapefiles are optional for running PTMApp-Desktop. Please review the PTMApp-Desktop User Guide on the PTMApp Documentation website to know which shapefiles are mandatory for running PTMApp-Desktop

Data Name	Description	Data Type	Source	Module	Processed In
existproj	Existing Project Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
floodext	Known Flooding Extents	Shapefile - Polygon	User	Ingest Data	Clip Watershed
flow_local	Flow Monitoring (Local Entities)	Shapefile - Point	User	Ingest Data	Clip Watershed
futureproj	Future Project Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
keyhabitat	Key Habitat Locations	Shapefile - Polygon	User	Ingest Data	Clip Watershed
npc	Locations of Native Plant Communities	Shapefile - Polygon	User	Ingest Data	Clip Watershed
npdes	NPDES Permit Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
pollutsrce	Potential Pollution Source Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
precipgage	Precipitation Gage Locations	Shapefile - Point	User	Ingest Data	Clip Watershed

Data Name	Description	Data Type	Source	Module	Processed In
primeag	Locations of Prime Agricultural Land	Shapefile - Polygon	User	Ingest Data	Clip Watershed
primefarm	Locations of Prime Farmland	Shapefile - Polygon	User	Ingest Data	Clip Watershed
probareas	Known Problem Areas (Flooding, Erosion, Etc.)	Shapefile - Polygon	User	Ingest Data	Clip Watershed
rals	Regional Assessment Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
rarespc	Rare Species Habitat Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
resconslnd	Locations of Existing Resources and Conservation Lands	Shapefile - Polygon	User	Ingest Data	Clip Watershed
scaleload_point	Location of one known scaling load point, preferably 1W1P boundary pour point	Shapefile - Point	User	Ingest Data	Clip Watershed
sgcn	Species in Greatest Conservation Need Habitat Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
sna	Locations of Scientific and Natural Areas	Shapefile - Polygon	User	Ingest Data	Clip Watershed

*Planning data listed is suggested, along with naming convention. User may wish to add additional planning data.

Table 3 PTMApp-Desktop Processing Data Geodatabase catalog

Data Name	Description	Data Type	Source	Module	Processed In
adj_catchment	Adjoint hydrologic catchment boundaries.	Shapefile - Polygon	PTMApp	Catchments and Loading	Generate Catchments
bin_covcrop	Locations suitable for Cover Crops practices (NRCS code 340). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_crit_plant	Locations suitable for Critical Area Planting practices (NRCS code 342). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_denit	Locations suitable for Denitrifying Bioreactor practices (NRCS code 605). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_ditch2s	Locations suitable for Multi-stage Ditch (open channel) practices (NRCS code 582). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed In
bin_drain	Locations suitable for Drainage Water Management practices (NRCS code 554). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_filtst	Locations suitable for Filtration Strip practices (NRCS code 393). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_forage	Locations suitable for Forage / Biomass Planting practices (NRCS code 512). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_grazing	Locations suitable for Prescribed Grazing practices (NRCS code 528). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_gwater	Locations suitable for Grassed Waterway practices (NRCS code 412). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed In
bin_inftrech	Locations suitable for Infiltration Trench/Small Infiltration Basin practices (NRCS code 350). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_n_mgmt	Locations suitable for Nutrient Management for Nitrogen practices (NRCS code 590_3). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_no_till	Locations suitable for No till practices (NRCS code 329). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_no3	Locations suitable for Nutrient Management of Groundwater practices (NRCS code 590_1). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_nut_wet	Locations suitable for Large Wetland Restoration practices (NRCS code 656_2). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed In
bin_p_mgmt	Locations suitable for Nutrient Management for Phosphorus practices (NRCS code 590_2). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_peren	Locations suitable for Perennial Crops practices (NRCS code 327). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_pond	Locations suitable for Farm Pond/Wetland practices (NRCS code 378). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_protect	Locations suitable for Grade Stabilization practices (NRCS code 410). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_red_till	Locations suitable for Reduced till practices (NRCS code 345). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed In
bin_reg_wet	Locations suitable for Regional Wetland/Pond practices (NRCS code 656_1). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_riparian	Locations suitable for Riparian Buffer practices (NRCS code 390). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_satbuff	Locations suitable for Saturated Buffer practices (NRCS code 604). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_shore	Locations suitable for Lake and Wetland Shoreline Restoration practices (NRCS code 580). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bin_wascob	Locations suitable for Water and Sediment Control Basin practices (NRCS code 638). Areas not suitable are nulled. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed In
bmp_implementation	User provided input for treatment train analysis.	Shapefile - Polygon	User	BMP Suitability	BMP Suitability
bmp_covcrop	Locations suitable for Cover Crops practices (NRCS code 340).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_crit_plant	Locations suitable for Critical Area Planting practices (NRCS code 342).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_denit	Locations suitable for Denitrifying Bioreactor practices (NRCS code 605).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_ditch2s	Locations suitable for Multi-stage Ditch (open channel) practices (NRCS code 582).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_drain	Locations suitable for Drainage Water Management practices (NRCS code 554).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_filtst	Locations suitable for Filtration Strip practices (NRCS code 393).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed In
bmp_forage	Locations suitable for Prescribed Grazing practices (NRCS code 528).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_grazing	Locations suitable for Forage / Biomass Planting practices (NRCS code 512).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_gwater	Locations suitable for Grassed Waterway practices (NRCS code 412).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_inftrech	Locations suitable for Infiltration Trench/Small Infiltration Basin practices (NRCS code 350).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_n_mgmt	Locations suitable for Nutrient Management for Nitrogen practices (NRCS code 590_3).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_no_till	Locations suitable for No till practices (NRCS code 329).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_no3	Locations suitable for Nutrient Management of Groundwater practices (NRCS code 590_1).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed In
bmp_nut_wet	Locations suitable for Regional Wetland/Pond practices (NRCS code 656_1).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_p_mgmt	Locations suitable for Nutrient Management for Phosphorus practices (NRCS code 590_2).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_peren	Locations suitable for Perennial Crops practices (NRCS code 327).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_pond	Locations suitable for Farm Pond/Wetland practices (NRCS code 378).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_protect	Locations suitable for Grade Stabilization practices (NRCS code 410).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_red_till	Locations suitable for Reduced till practices (NRCS code 345).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_reg_wet	Locations suitable for Large Wetland Restoration practices (NRCS code 656_2).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed In
bmp_riparian	Locations suitable for Riparian Buffer practices (NRCS code 390).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_satbuff	Locations suitable for Saturated Buffer practices (NRCS code 604).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_shore	Locations suitable for Lake and Wetland Shoreline Restoration practices (NRCS code 580).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_wascob	Locations suitable for Water and Sediment Control Basin practices (NRCS code 638).	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmpstats_web_template	Lookup table for generating default values for PTMApp - Web Scenario Builder, populated for each p_res_catchment	Table	PTMApp	Ingest Data	Clip Watershed
bound_1w1p	Boundary for 1W1P planning area or watershed to be analyzed.	Shapefile - Polygon	PTMApp	Ingest Data	Clip Watershed
catchment	Individual hydrologic catchment boundaries.	Shapefile - Polygon	PTMApp	Catchments and Loading	Generate Catchments

Data Name	Description	Data Type	Source	Module	Processed In
catchmentraster	Grid representing the location of catchments with cell values equal to the catch_id attribute. (32 bit unsigned integer)	Raster	PTMApp	Catchments and Loading	Generate Catchments
cn_fac	Weighted flow accumulation grid, using the curve_num raster as the weighting grid. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Runoff Volume and Peak Flow
cti	Compound topographic index. Cells are relative dimensionless values. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	SPI Calculator
curve_num	Curve number raster. (8 bit signed integer)	Raster	PTMApp	User Input	User Input
ds_fl	Downstream flow length in meters. (32 bit unsigned integer)	Raster	PTMApp	Ingest Data	preprocessing
ds_tt	Accumulated downstream travel time in hours. (32 bit floating point)	Raster	PTMApp	User Input	User Input
fac_surf	Flow accumulation from the hydroconditioned DEM based only on surface contributing area. (32 bit signed integer)	Raster	User	User Input	User Input

Data Name	Description	Data Type	Source	Module	Processed In
fac_total	Flow accumulation from the hydroconditioned DEM. (32 bit signed integer)	Raster	User	User Input	User Input
fdr_surf	Flow direction raster from the hydroconditioned DEM based only on surface contributing area. (8 bit unsigned integer)	Raster	User	User Input	User Input
fdr_total	Flow direction raster from the hydroconditioned DEM. (8 bit unsinged integer)	Raster	User	User Input	User Input
fill_dem	Precursor to the hyd_dem. (32 bit floating point)	Raster	PTMApp	Ingest Data	preprocessing
hyd_dem	Hydrologically conditioned digital elevation model in meters. (32 bit floating point)	Raster	PTMApp	User Input	User Input
lakes_route	Lake polygons to be included for lake routing.	Shapefile - Polygon	User	Catchments and Loading	Lake Routing
landseg_polygon	User provided input for scale loads (only output if scale loads is run). Distribution of land segments with yields data attached.	Shapefile - Polygon	User	User Input	User Input

Data Name	Description	Data Type	Source	Module	Processed In
ls_factor	Length-Slope factor calculated and used in RUSLE. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	RUSLE Calculator
overland_sdr	Delivery ratio of sediment to the flow line as a percent of sediment delivered to a concentrated flowpath; 1 = 100%. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	SDR to Catchment Outlet
p_res_catchment	Priority resource hydrologic catchment boundaries and/or plan regions.	Shapefile - Polygon	PTMApp	Catchments and Loading	Generate Catchments
p_res_pts	Point locations of priority resources and/or plan regions where PTMApp data is summarized	Shapefile - Point	User	User Input	User Input
p_res_snap	Watershed outlet point of priority resource and/or plan regions. (8 bit signed integer)	Raster	PTMApp	Ingest Data	preprocessing
PeakQ_2yr	Peak flow from upstream contributing drainage area for 2-yr 24-hour event in cubic feet per second. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Runoff Volume and Peak Flow

Data Name	Description	Data Type	Source	Module	Processed In
PeakQ_10yr	Peak flow from upstream contributing drainage area for 10-yr 24-hour event in cubic feet per second. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Runoff Volume and Peak Flow
pp_catchment	Outlet pour points for catchments. Values represent Catch_ID. (32 bit unsigned integer).	Raster	PTMApp	Catchments and Loading	Generate Catchments
raw_dem	Non-conditioned digital elevation model in meters. (32 bit floating point)	Raster	PTMApp	User Input	User Input
RO_vol_2yr	Runoff volume from upstream contributing drainage area for 2-yr 24-hour event in cubic feet. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Runoff Volume and Peak Flow
RO_vol_10yr	Runoff volume from upstream contributing drainage area for 10-yr 24-hour event in cubic feet. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Runoff Volume and Peak Flow
runoff_depth_2	Runoff depth associated with the 2-yr 24-hour event in inches. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Runoff Volume and Peak Flow

Data Name	Description	Data Type	Source	Module	Processed In
runoff_depth_10	Runoff depth associated with the 10-yr 24-hour event in inches. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Runoff Volume and Peak Flow
rusle_c	RUSLE - Cover management factor. Values typically 0.002 to 0.2 (32 bit floating point)	Raster	User	User Input	User Input
rusle_kw	RUSLE - Soil erodibility factor. Values typically 0.05 to 0.4 (32 bit floating point)	Raster	User	User Input	User Input
rusle_m	RUSLE - m-weight factor. Typically assigned to a value of 1 unless local knowledge available (8 bit signed integer)	Raster	User	User Input	User Input
rusle_p	RUSLE - Support practice factor. Typically assigned to a value of 1 unless local knowledge available (8 bit signed integer)	Raster	User	User Input	User Input
rusle_r	RUSLE - rainfall-runoff erosivity factor. (32 bit floating point)	Raster	User	User Input	User Input

Data Name	Description	Data Type	Source	Module	Processed In
Sed_mass	Sediment mass leaving the landscape adjusted by calibration factor (tons/acre/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Sediment Routing to Catchment Outlet
Sed_mass_fl	Sediment mass delivered to the catchment outlet (tons/acre/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Sediment Routing to Catchment Outlet
Sed_mass_fl_acc	Sediment mass delivered to the catchment outlet and accumulated from all upstream cells (tons/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Sediment Routing to Catchment Outlet
Sed_mass_fl_rank	Rank of sediment reaching the flow line. (32 bit floating point)	Raster	PTMApp	Ranking	Delivered to the Catchment Outlet
Sed_mass_rank	Rank of sediment leaving the landscape. (32 bit floating point)	Raster	PTMApp	Ranking	Leaving the Landscape
Sed_mass_raw	Sediment mass leaving the landscape (tons/acre/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	RUSLE Calculator
slope	Slope of the raw DEM as a percent. (32 bit floating point)	Raster	PTMApp	Ingest Data	preprocessing

Data Name	Description	Data Type	Source	Module	Processed In
spi	Stream power index. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	SPI Calculator
spi_ranks	Rank of the SPI file. (32 bit floating point).	Raster	PTMApp	Ranking	SPI Ranking
sssurgo_cpi	SSURGO - Crop Productivity Index. (8 bit signed integer)	Raster	User	User Input	User Input
ssurgo_dtgw	SSURGO - Depth to groundwater. (8 bit signed integer)	Raster	User	User Input	User Input
ssurgo_hs	SSURGO - Hydric Soils (binary). (8 bit signed integer)	Raster	User	User Input	User Input
ssurgo_hsg	SSURGO - Hydrologic Soil Group. (8 bit signed integer)	Raster	User	User Input	User Input
table_adj_catchment	Adjoint catchment table.	Table	PTMApp	Catchments and Loading	Sediment, TP and TN Channel Routing
table_adj_catchment_route	Routing calculation table for adjoint catchments.	Table	PTMApp	Catchments and Loading	Sediment, TP and TN Channel Routing

Data Name	Description	Data Type	Source	Module	Processed In
table_ba_bmp_all	Benefits analysis table containing loading reduction, cost, and cost-effectiveness estimates for all BMPs, as measured at the catchment outlets.	Table	PTMApp	Benefits Analysis	Generate Benefits Tables
table_BA_BMP_All Catchment	Table showing one set of values per BMP type (NRCS value) for each catchment.	Table	PTMApp	Benefits Analysis	Attach to Catchments
table_ba_load_red	Benefits analysis table containing with loading reduction, cost, and cost-effectiveness estimates for all BMPs, as measured at the priority resource outlets.	Table	PTMApp	Benefits Analysis	Generate Benefits Tables
table_ca_bmp_costeff	Table with cost index data, representing one set of values per BMP type (NRCS value) for each catchment.	Table	PTMApp	Cost Analysis	Cost Analysis
table_catchment	Table with catchment information, including water volume and sediment, TP and TN mass information.	Table	PTMApp	Catchments and Loading	Summarize Catchment Loadings
table_metadata_project	General project information.	Table	PTMApp	Ingest Data	Clip Watershed

Data Name	Description	Data Type	Source	Module	Processed In
table_metadata_tool	General toolbar processing information, error log, and user input log.	Table	PTMApp	Ingest Data	Clip Watershed
table_p_res_catchment	Table with loading information for priority resource catchment and/or plan regions.	Table	PTMApp	Catchments and Loading	Sediment, TP and TN Channel Routing
table_p_res_catchment_route	Routing calculation table for priority resource catchments.	Table	PTMApp	Catchments and Loading	Sediment, TP and TN Channel Routing
table_r_catchment	Ranking catchment table (sediment, TP, TN, WQI), ranking based on 1W1P boundary.	Table	PTMApp	Ranking	Delivered to the Catchment Outlet
table_r_p_res_catchment	Ranking catchment table (sediment, TP, TN, WQI), ranking based on priority resource boundaries.	Table	PTMApp	Ranking	Priority Resource Delivery
table_scaled_load	Lookup table to scale yields based on HSPF/SWAT/etc. models. (only output if scale loading was run)	Table	PTMApp	Catchments and Loading	Scale Loads

Data Name	Description	Data Type	Source	Module	Processed In
table_treat_train_catch	Table with results of treatment train analysis. Loads are relative to catchment outlet. (only output if treatment train was run)	Table	PTMApp	Benefits Analysis	Treatment Trains
table_treat_train_p_res	Table with results of treatment train analysis. Loads are relative to priority resource outlets. (only output if treatment train was run)	Table	PTMApp	Benefits Analysis	Treatment Trains
TN_mass	TN mass leaving the landscape (lbs/acre/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Total Nitrogen Loads and Routing to Catchment Outlet
TN_mass_fl	TN mass delivered to the catchment outlet (lbs/acre/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Total Nitrogen Loads and Routing to Catchment Outlet
TN_mass_fl_acc	TN mass delivered to the catchment outlet and accumulated from all upstream cells (lbs/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Total Nitrogen Loads and Routing to Catchment Outlet
TN_mass_fl_rank	Rank of nitrogen reaching the flow line. (32 bit floating point)	Raster	PTMApp	Ranking	Delivered to the Catchment Outlet

Data Name	Description	Data Type	Source	Module	Processed In
TN_mass_rank	Rank of nitrogen leaving the landscape. (32 bit floating point)	Raster	PTMApp	Ranking	Leaving the Landscape
TP_mass	TP mass leaving the landscape (lbs/acre/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Total Phosphorus Loads and Routing to Catchment Outlet
TP_mass_fl	TP mass delivered to the catchment outlet (lbs/acre/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Total Phosphorus Loads and Routing to Catchment Outlet
TP_mass_fl_acc	TP mass delivered to the catchment outlet and accumulated from all upstream cells (lbs/year). (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Total Phosphorus Loads and Routing to Catchment Outlet
TP_mass_fl_rank	Rank of phosphorus reaching the flow line. (32 bit floating point)	Raster	PTMApp	Ranking	Delivered to the Catchment Outlet
TP_mass_rank	Rank of phosphorus leaving the landscape. (32 bit floating point)	Raster	PTMApp	Ranking	Leaving the Landscape
tt_grid	Cell to cell travel time in seconds. (32 bit floating point)	Raster	PTMApp	User Input	User Input

Data Name	Description	Data Type	Source	Module	Processed In
tt_overland	Travel time in hours to the flow line. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Travel Time to Catchment Outlet
us_fl	Upstream flow length in meters. (32 bit unsigned integer)	Raster	PTMApp	Ingest Data	preprocessing
us_tt	Accumulated upstream travel time in hours. (32 bit floating point)	Raster	PTMApp	User Input	User Input
usr_rank_weight	User provided optional input for custom weighting.	Shapefile - Polygon	User	User Input	User Input
WQI_mass_fl_rank	Rank of the Water Quality Index reaching the flow line. (32 bit floating point)	Raster	PTMApp	Ranking	Delivered to the Catchment Outlet
WQI_mass_rank	Rank of the Water Quality Index leaving the landscape. (32 bit floating point)	Raster	PTMApp	Ranking	Leaving the Landscape

1W1P – One Watershed One Plan; BMP – Best Management Practice; DEM – Digital Elevation Model; RUSLE – Revised Universal Soil Loss Equation; SSURGO – Soil Survey Geographic Database; TN – Total Nitrogen; TP – Total Phosphorus; NRCS – Natural Resources Conservation Service