

PTMApp-Desktop Data Catalog

Revised October 2019

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 (2012)	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed
assstrm	MPCA Assessed Streams (2012)	Shapefile - Line	MPCA	Ingest Data	Clip Watershed
asswet	MPCA Assesed Wetlands (2012)	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed
bdrkgeo	Bedrock Geology	Shapefile - Polygon	MGC	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_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 (2012)	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed
impstrm	MPCA Impaired streams (2012)	Shapefile - Line	MPCA	Ingest Data	Clip Watershed
impwet	MPCA Impaired wetlands (2012)	Shapefile - Polygon	MPCA	Ingest Data	Clip Watershed
lakes_DNR_auto	MnDNR Autocatchment Lakes	Shapefile - Polygon	MGC	Ingest Data	Clip Watershed
landuse	2011 National Land Cover Database (8 Bit signed integer)	Raster	MRLC	Ingest Data	Clip Watershed

Data Name	Description	Data Type	Source	Module	Processed in
mn_rainfall_10	Minnesota Statewide Rainfall - 10yr 24-hr Atlas 14 (32 Bit floating point; Inches X 1000)	Raster	NOAA	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
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
roads	Minnesota Trunk Highway system	Shapefile - Line	MnDOT	Ingest Data	Clip Watershed
rroads	Railroads	Shapefile - Line	MnDOT	Ingest Data	Clip Watershed
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 polygons with SSURGO and RUSLE Kw attributes for all MN HUC8 watersheds	Shapefile - Polygon	NRCS	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 in 2015 and is subject to periodic updates. PTMApp users should check with data source for most current data

** Source 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 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
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
ral	Regional Assessment Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
rarespc	Rare Species Habitat Locations	Shapefile - Point	User	Ingest Data	Clip Watershed
resconlnd	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
biofiltration	Locations suitable for biofiltration practices.	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
bmp_biofilt	Locations suitable for biofiltration practices. Areas not suitable are nulled. Each suitable location has a unique integer value generated from the binary grid using region groups. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bmp_filtration	Locations suitable for filtration practices. Areas not suitable are nulled. Each suitable location has a unique integer value generated from the binary grid using region groups. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bmp_implementation	User provided input for treatment train analysis.	Shapefile - Polygon	User	BMP Suitability	BMP Suitability
bmp_infiltration	Locations suitable for infiltration practices. Areas not suitable are nulled. Each suitable location has a unique integer value generated from the binary grid using region groups. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bmp_null	User provided input for screen BMP.	Shapefile - Polygon	User	BMP Suitability	BMP Suitability
bmp_prot	Locations suitable for protection practices. Areas not suitable are nulled. Each suitable location has a unique integer value generated from the binary grid using region groups. (8 bit signed integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bmp_sred	Locations suitable for source reduction practices. Areas not suitable are nulled. Each suitable location has a unique integer value generated from the binary grid using region groups. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
bmp_storage	Locations suitable for storage practices. Areas not suitable are nulled. Each suitable location has a unique integer value generated from the binary grid using region groups. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed in
bound_1w1p	Boundary for 1W1P planning area.	Shapefile - Polygon	PTMApp	Ingest Data	Clip Watershed
catchment	Individual hydrologic catchment boundaries.	Shapefile - Polygon	PTMApp	Catchments and Loading	Generate Catchments
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
CovCrop_bin	Locations suitable for cover crop BMPs. Areas not suitable are nulled. This BMP raster is in the source reduction treatment group and is used to create BMP_sred. (8 bit signed integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
crit_plant_bin	Locations suitable for critical area planting BMPs. Areas not suitable are nulled. This BMP raster is in the protection treatment group and is used to create BMP_prot. (8 bit signed integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
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
denit_bin	Locations suitable for denitrifying bioreactor BMPs. Areas not suitable are nulled. This BMP raster is in the biofiltration treatment group and is used to create BMP_biofilt. (8 bit signed integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
ditch2s_bin	Locations suitable for multi-stage ditch BMPs. Areas not suitable are nulled. This BMP raster is in the infiltration treatment group and is used to create BMP_infiltration. (8 bit signed integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
drain_bin	Locations suitable for drainage water management/controlled drainage BMPs. Areas not suitable are nulled. This BMP raster is in the storage treatment group and is used to create BMP_storage. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
ds_fl	Downstream flow length in meters. (32 bit unsigned integer)	Raster	PTMApp	Ingest Data	preprocessing

Data Name	Description	Data Type	Source	Module	Processed in
ds_tt	Accumulated downstream travel time in hours. (32 bit floating point)	Raster	PTMApp	User Input	User Input
fac_surf	Flow accumulation from surface contributing area only. (32 bit signed integer)	Raster	User	User Input	User Input
fac_total	Flow accumulation from fill all. (32 bit signed integer)	Raster	User	User Input	User Input
fdr_surf	Flow direction raster from surface contributing area only. (8 bit unsigned integer)	Raster	User	User Input	User Input
fdr_total	Flow direction raster from fill all. (8 bit unsigned integer)	Raster	User	User Input	User Input
filtration	Locations suitable for filtration practices.	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
filtst_bin	Locations suitable for filtration strip BMPs. Areas not suitable are nulled. This BMP raster is in the filtration treatment group and is used to create BMP_filtration. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
Gwater_bin	Locations suitable for grassed waterway BMPs. Areas not suitable are nulled. This BMP raster is in both the filtration and protection treatment groups and is used to create BMP_filtration and BMP_prot, respectively. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
hyd_dem	Hydrologically conditioned digital elevation model in meters. (32 bit floating point)	Raster	PTMApp	User Input	User Input
infiltration	Locations suitable for infiltration practices.	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
InfTrench_bin	Locations suitable for infiltration trenches and small infiltration basin BMPs. Areas not suitable are nulled. This BMP raster is in the infiltration treatment group and is used to create BMP_infiltration. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
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. 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
NO3_bin	Locations suitable for BMPs that promote nutrient management of groundwater. Areas not suitable are nulled. This BMP raster is in the source reduction treatment group and is used to create BMP_sred. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
Nutr_wet_bin	Locations suitable for large wetland restorations targeted for nutrient reductions. Areas not suitable are nulled. This BMP raster is in the storage treatment group and is used to create BMP_storage. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
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, with water quality goals in attributes.	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_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
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
peren_bin	Locations suitable for perennial crop BMPs. Areas not suitable are nulled. This BMP raster is in the source reduction treatment group and is used to create BMP_sred. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
pond_bin	Locations suitable for farm pond/wetland BMPs. Areas not suitable are nulled. This BMP raster is in	Raster	PTMApp	BMP Suitability	BMP Suitability

Data Name	Description	Data Type	Source	Module	Processed in
	the storage treatment group and is used to create BMP_storage. (8 bit unsigned integer)				
pp_catchment	Outlet pour points for catchments. Values represent Catch_ID. (32 bit unsigned integer).	Raster	PTMApp	Catchments and Loading	Generate Catchments
protect_bin	Locations suitable for grade stabilization BMPs. Areas not suitable are nulled. This BMP raster is in the protection treatment group and is used to create BMP_prot. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
protection	Locations suitable for protection practices.	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
raw_dem	Non-conditioned digital elevation model in meters. (32 bit floating point)	Raster	PTMApp	User Input	User Input
reg_wet_bin	Locations suitable for regional wetland/pond BMPs. Areas not suitable are nulled. This BMP raster is in the storage treatment group and is used to create BMP_storage. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
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
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
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
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
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

Data Name	Description	Data Type	Source	Module	Processed in
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
SatBuff_bin	Locations suitable for saturated buffer BMPs. Areas not suitable are nulled. This BMP raster is in the biofiltration treatment group and is used to create BMP_biofilt. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
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 to the catchment outlet (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
Shore_bin	Locations suitable for restoration practices along lake and wetland shorelines. Areas not suitable are nulled. This BMP raster is in the protection treatment group and is used to create BMP_prot. (8 bit unsigned integer)	Raster	PTMApp	BMP Suitability	BMP Suitability
slope	Slope of the raw DEM as a percent. (32 bit floating point)	Raster	PTMApp	Ingest Data	preprocessing
sourcreduction	Locations suitable for Source Reduction practices.	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
spi	Stream power index. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	SPI Calculator

Data Name	Description	Data Type	Source	Module	Processed in
spi_ranks	Rank of the SPI file. (32 bit floating point).	Raster	PTMApp	Ranking	SPI Ranking
ssurgo_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
storage	Locations suitable for Storage practices.	Shapefile - Polygon	PTMApp	BMP Suitability	BMP Suitability
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
table_ba_bmp_all	Benefits analysis BMP table for all BMPs.	Table	PTMApp	Benefits Analysis	Generate Benefits Tables
table_BA_BMP_All Catchment	Table showing one set of values per BMP treatment group for each catchment.	Table	PTMApp	Benefits Analysis	Attach to Catchments
table_ba_load_red	Table with loading reductions at the resource of concern.	Table	PTMApp	Benefits Analysis	Generate Benefits Tables
table_ca_bmp_costeff	Table with BMP cost effectiveness data.	Table	PTMApp	Cost Analysis	Cost Analysis
table_catchment	Catchment table.	Table	PTMApp	Catchments and Loading	Summarize Catchment Loadings
table_p_res_catchment	Loading priority resource catchment and/or plan regions table.	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.	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.	Table	PTMApp	Benefits Analysis	Treatment Trains
table_treat_train_p_res	Table with results of treatment train analysis. Loads are relative to priority resources	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 to the catchment outlet (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
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 to the catchment outlet (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
tt_overland	Travel time in hours to the flow line. (32 bit floating point)	Raster	PTMApp	Catchments and Loading	Travel Time to Catchment Outlet

Data Name	Description	Data Type	Source	Module	Processed in
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
wascob_bin	Locations suitable for water and sediment control basin (WASCOB) BMPs. Areas not suitable are nulled. This BMP raster is in the storage treatment group and is used to create BMP_storage.	Raster	PTMApp	BMP Suitability	BMP Suitability
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

** Abbreviations: 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