



## **Hamilton Township (Mercer County) Hydrologic Model Report**

Developed by the Rutgers Cooperative Extension Water Resources Program  
Funded by Hamilton Township, Mercer County, New Jersey

May 29, 2014

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Cover photo credit: Courtney Sacco Photography

<http://courteysaccophotography.blogspot.com/2011/08/hamilton-nj-flooding.html>

## **Executive Summary**

To better manage stormwater runoff and flooding in Hamilton Township (Mercer County), the Rutgers Cooperative Extension (RCE) Water Resources Program developed hydrologic models for seven local watersheds: Miry Run, Pond Run, Shady Brook, Doctors Creek, Back Creek, Assunpink Creek, and Crosswicks Creek. ArcGIS and HEC-HMS were used to locate critical flooding areas in each of these watersheds for the 2-year, 10-year, and 100-year storm events.

Subbasins were delineated for each watershed, and critical subbasins were identified based on normalized direct runoff and drainage area. Pond Run and Doctors Creek have clear critical subbasins because those with the highest normalized direct runoffs also happen to be some of the largest in the watershed. For Miry Run, Shady Brook, and Back Creek, a balance between the two criteria determines which subbasins are critical.

Disconnection of impervious cover is recommended to alleviate flooding while also improving water quality. Back Creek should be the first priority for disconnection projects by the Township. Shady Brook is the second priority. Although Shady Brook is the smallest of the five watersheds, it exhibits the most flooding potential because it contains highly developed areas. Pond Run is the third priority. There is less of a priority for implementation in Miry Run and Doctors Creek, which both contain the least impervious cover of the five watersheds modeled and, therefore, the lowest normalized direct runoff.

## **Introduction**

In Spring 2011, Hamilton Township in Mercer County contacted the RCE Water Resources Program requesting assistance in evaluating water resources issues in the community. The Township, along with many other communities throughout New Jersey, is struggling to maintain aging infrastructure, address frequent flooding of local streets and properties, and understand the community-wide impacts of stormwater management strategies.

After the successful completion of this evaluation, the Township has chosen to move forward with the first phase of recommended actions. The recommended actions were identified to support a series of goals established for Hamilton Township in its ongoing efforts to address water resource issues. These goals include:

- Engage the community in water resource protection
- Manage water quality
- Minimize localized flooding
- Implement Phase II stormwater controls
- Improve stormwater facility maintenance

Historically, flooding has occurred in Hamilton Township primarily along the Delaware River, Assunpink Creek, and Crosswicks Creek. A stormwater model for Hamilton Township was developed to determine critical areas that create runoff that could lead to flooding issues and then use this information to estimate future scenarios (flood management, increased or decreased development, or implementation of flood controls) that can be assessed as to their impact on water quality and quantity. Models are mathematical representations of reality that allow researchers and resource managers the opportunity to perform trial-and-error scenarios on physical structures or environmental landscapes. The ability of models to vary different input parameters simulating and evaluating multiple scenarios is ideal for flood management. The method generally followed when modeling hydrology is to monitor a system to be modeled, model the system of interest, and alter the model in some way to represent/predict changes in the system.

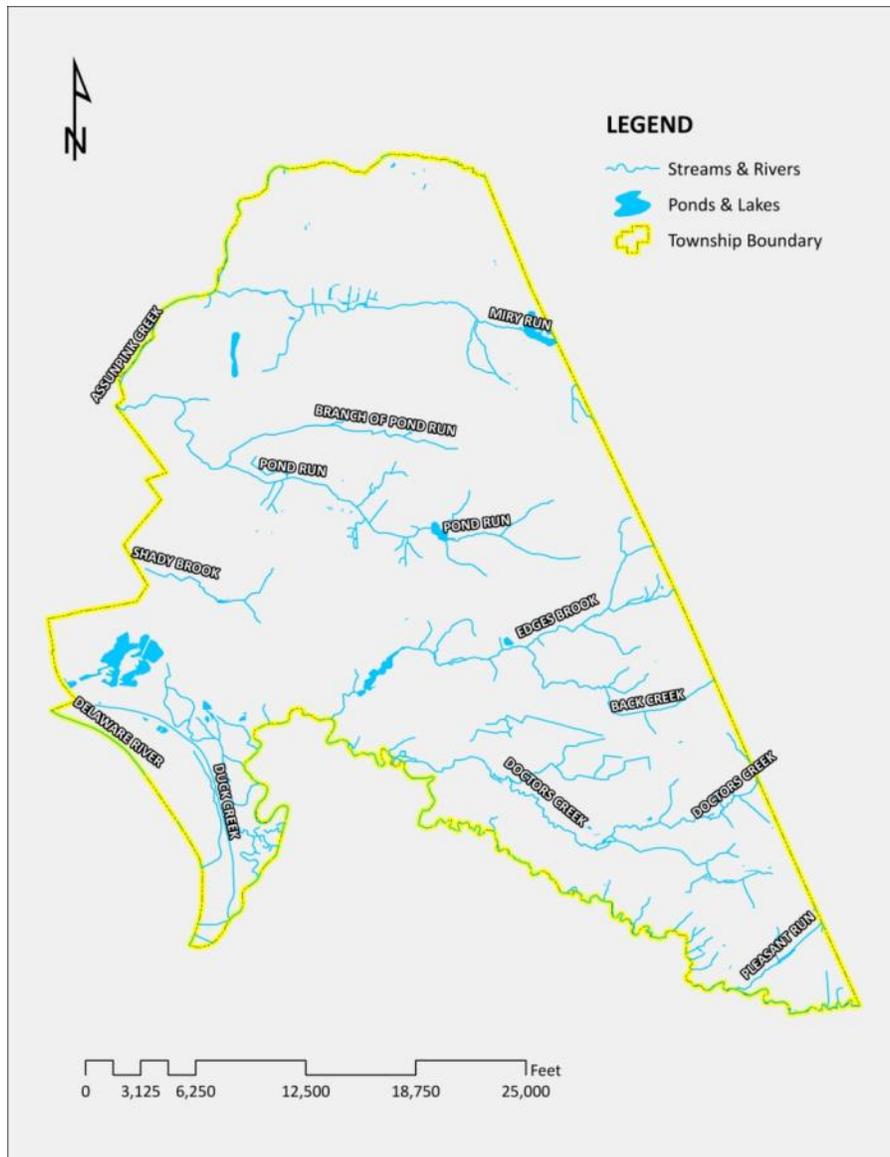
A hydrologic model will help decision-makers understand stormwater runoff volumes from subwatersheds within the Township contributing to flooding and allow for determinations of stream and flood responses to stormwater runoff under various storm conditions. The model predictions can be used to help guide future development and land preservation decisions, target specific areas for flood control projects or stormwater infrastructure upgrades, and manage emergency efforts during a flood event.

During the first phase of this project, the RCE Water Resources Program completed stormwater runoff and flood modeling for Miry Run, Pond Run, and Shady Brook (Figure 1). During the second phase of the project, Doctors Creek and Back Creek's stormwater runoff and flood modeling were completed (Figure 1). The third phase involved the modeling of Crosswicks Creek and Assunpink Creek (Figure 1). These seven watersheds face stormwater problems

associated with increased impervious cover due to urban and industrial development<sup>1</sup>. Impervious cover increases the rate and volume of stormwater runoff, which can cause flooding and degrade local water quality. The intention of the modeling effort is to utilize a rainfall-runoff model for each watershed to identify critical areas subject to flooding and evaluate various actions to alleviate flooding. The models under this project were developed by integrating a Geographic Information System (GIS) interface, ESRI's ArcGIS version 9.3, with the Hydrologic Engineering Center's Hydrologic Modeling System (HEC-HMS) version 3.5. The 2-year design storm, 10-year and 100-year storm events were modeled for each watershed.

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<sup>1</sup> FEMA, 2010



**Figure 1: Location of streams and rivers in Hamilton Township.**

### ***Model Overview***

A numerical hydrologic model of Hamilton Township (Mercer County) was built using the U.S. Army Corps of Engineers’ (USACOE) HEC-HMS model. HEC-HMS is a distributed hydrologic model developed in the late 1980s by the USACOE that can simulate runoff at points within a watershed given data on the physical characteristics of that watershed<sup>1</sup>. HEC-HMS has the advantage over other models in that it uses readily available data, can operate in large-scale basins, has the possibility of simulation for long periods of time, and has a history of successful

<sup>1</sup> Ogden et al., 2001

usage<sup>1</sup>. Models created using HEC-HMS also require a small number of parameters to simulate flooding effectively<sup>2</sup>.

Much of the input data for the model were downloaded directly from the New Jersey Department of Environmental Protection (NJDEP) Bureau of GIS website (<http://www.nj.gov/dep/gis/download.htm>). Data layers for elevation and topography, hydrography, soil types, and land use/land cover were selected for model input. These data were compiled using an ArcGIS graphical interface used to generate input files for the HEC-HMS model: HEC-GeoHMS. It allows the user to employ readily available GIS layers and easily create model parameters, especially for multiple watersheds.

## Engineering Methods

### *HEC-GeoHMS*

A GIS is a digital database that can relate different layers of geospatial information, or data referenced to a set of geographic coordinates.<sup>3</sup> The Geospatial Hydrologic Modeling Extension for HEC-HMS (HEC-GeoHMS) 5.0 and Spatial Analyst extension for ArcGIS 9.3 were utilized to combine different layers and extract new attributes from the data to be used as input into the HEC-HMS modeling software.

The approach used to determine critical flooding areas started with terrain preprocessing and basin processing. These processes delineate subbasins and allow for further hydrologic parameter estimation. Land use and land cover data from 2007 contains impervious cover data that were used to determine the impervious grid over each watershed and subbasin. The land use and land cover data were also combined with soil hydrologic soil group data to calculate curve numbers using the ArcCN-Runoff tool.<sup>4</sup> Initial abstraction for runoff calculation was calculated as:

$$0.2 * \frac{1,000}{CN - 10}$$

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<sup>1</sup> Ogden et al., 2001

<sup>2</sup> Ogden et al., 2001

<sup>3</sup> Folger, 2009

<sup>4</sup> Zhan and Huang, 2004

where  $CN$  is the curve number. Time of concentration (the amount of time it takes for water to flow through a subbasin) was calculated as 1.67 times the basin lag time.<sup>1</sup> GIS data was then exported into HEC-HMS as the basis of each subwatershed model.

## **HEC-HMS**

HEC-HMS simulates rainfall-runoff and routing processes using a mathematical model.<sup>2</sup> The outputs of the model are hydrographs and tables estimating peak discharge, time to peak, and runoff volume. Components of HEC-HMS are basin models, meteorological models, and control specifications. Subbasin characteristics generated in HEC-GeoHMS were imported into HEC-HMS prior to running the model.

Several component fields in the baseflow model required manual population. The recession constant was calculated using the equation:

$$Q_t = Q_0 K^t$$

where  $Q_t$  is the initial discharge,  $Q_0$  is the discharge at a later time,  $t$  is the time in days, and  $K$  is the recession constant. Instantaneous discharge data used in this calculation are from 3/29/2010 to 5/25/2010 for USGS 01464000 Assunpink Creek at Trenton NJ and USGS 01463620 Assunpink Creek near Clarksville NJ.<sup>3</sup> The value  $K=0.944566$  was calculated from these data.

The storage coefficient was calculated for each subbasin using the equation:

$$R = 16.4 * L^{0.342} * S^{-0.790}$$

where  $R$  is the storage coefficient,  $L$  is the stream length, and  $S$  is the slope.<sup>4</sup> The values of this parameter were then doubled to calibrate the models (see section on Calibration). Initial discharge was set at zero for each subbasin for simplification, and a default ratio to peak threshold of 0.2 was selected.

The Soil Conservation Service (SCS) hypothetical storm was selected as the precipitation type for the meteorological model. This synthetic precipitation was based on a Type 3 storm and the

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<sup>1</sup> Iowa DNR, 2008

<sup>2</sup> USACOE HEC, 2000

<sup>3</sup> USGS, 2012

<sup>4</sup> Straub et al., 2000

24 hour rainfall frequency per storm event. Control specifications were set at 15 minute time intervals over a period of 24 hours and 15 minutes.

The SCS curve number loss method was used to estimate precipitation using the equation:

$$P_e = \frac{(P - I_a)^2}{P - I_a + S}$$

where  $P_e$  is the accumulated precipitation excess at time  $t$ ,  $P$  is the accumulated rainfall depth at time  $t$ ,  $I_a$  is the initial abstraction, and  $S$  is the potential maximum retention.<sup>1</sup> This method is simple, well established and widely used, however its drawback is that rain intensity is not considered.<sup>2</sup> The Clark Unit Hydrograph transform model was employed. This method draws from the properties of the time-area histogram and the storage coefficient.<sup>3</sup> To model baseflow, the Recession model was analyzed based on initial discharge and the ratio to peak threshold.<sup>4</sup> The Lag model was utilized as a routing method because of its simplicity. Outflow is equal to the inflow, but the ordinates are lagged in time by a specified duration.<sup>5</sup>

For more information on the components and complete descriptions of their relationships within the model, see the *Hydrologic Modeling System (HMS) User's Manual Version 3.5 – August 2012* ([http://www.hec.usace.army.mil/software/hec-hms/documentation/HEC-HMS\\_Users\\_Manual\\_3.5.pdf](http://www.hec.usace.army.mil/software/hec-hms/documentation/HEC-HMS_Users_Manual_3.5.pdf)).

## Areas Studied

For the development of the HEC-HMS model for Hamilton Township, Miry Run, Pond Run, Shady Brook, Doctors Creek, Back Creek, Assunpink Creek and Crosswicks Creek were chosen for an estimation of runoff and flooding extent. All of these waterways flow through Hamilton Township in Mercer County, New Jersey (Figure 1; Figure 2). Hamilton Township's elevation ranges from 0 feet above mean sea level (AMSL) in the western region to 121 feet AMSL in the eastern region (Figure 2).<sup>6</sup> Annual rain accumulation for the area is 44 inches, and the total

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<sup>1</sup> USACOE HEC, 2000

<sup>2</sup> USACOE HEC, 2000

<sup>3</sup> USACOE HEC, 2000

<sup>4</sup> USACOE HEC, 2010

<sup>5</sup> USACOE HEC, 2000

<sup>6</sup> RCE Water Resources Program, 2011

storm peaks by storm event are as shown in Table 1.<sup>1</sup> The drainage area is 12.6 square miles for Miry Run, 10.1 square miles for Pond Run, 2.0 square miles for Shady Brook, 33.4 square miles for Doctors Creek, 5.8 square miles for Back Creek, 90.0 square miles for Assunpink Creek, and 134.1 square miles for Crosswicks Creek.<sup>2</sup>

**Table 1. 24 Hour Rainfall Frequency<sup>3</sup>**

<b>Storm Event</b>	<b>24 Hour Rainfall Frequency (inches)</b>
2 year	3.31
10 year	5.02
100 year	8.35

Areas surrounding Pond Run and Shady Brook are mostly developed, whereas Miry Run is surrounded by swampy floodplains with some development at the floodplain fringes.<sup>4</sup> There are several flood-protection dams and lakes that conjoin with the five areas studied (Figure 2). Assunpink #21 Dam reduces Miry Run’s discharges to Whitehead Pond Dam on Assunpink Creek. Pond Run has 2.4 miles of flood-control channel from its confluence with Assunpink Creek to Hamilton Avenue.<sup>5</sup> Hamilton Veterans Park Lake (Assunpink #8 Dam) is located on Pond Run east of White Horse Hamilton Square Road. Shady Brook has a stormwater diversion dam located approximately 500 feet upstream of Park Avenue.<sup>6</sup> This dam reduces discharges downstream by directing flood flows from a secondary spillway to a 72-inch storm sewer and through a 102-inch trunk sewer into Crosswicks Creek.<sup>7</sup> For simplification, dams were not included in the hydrologic models.

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<sup>1</sup> Office of the NJ State Climatologist, 2011

<sup>2</sup> FEMA, 2010

<sup>3</sup> NJ NRCS, 2011

<sup>4</sup> FEMA, 2010

<sup>5</sup> FEMA, 2010

<sup>6</sup> FEMA, 2010

<sup>7</sup> FEMA, 2010

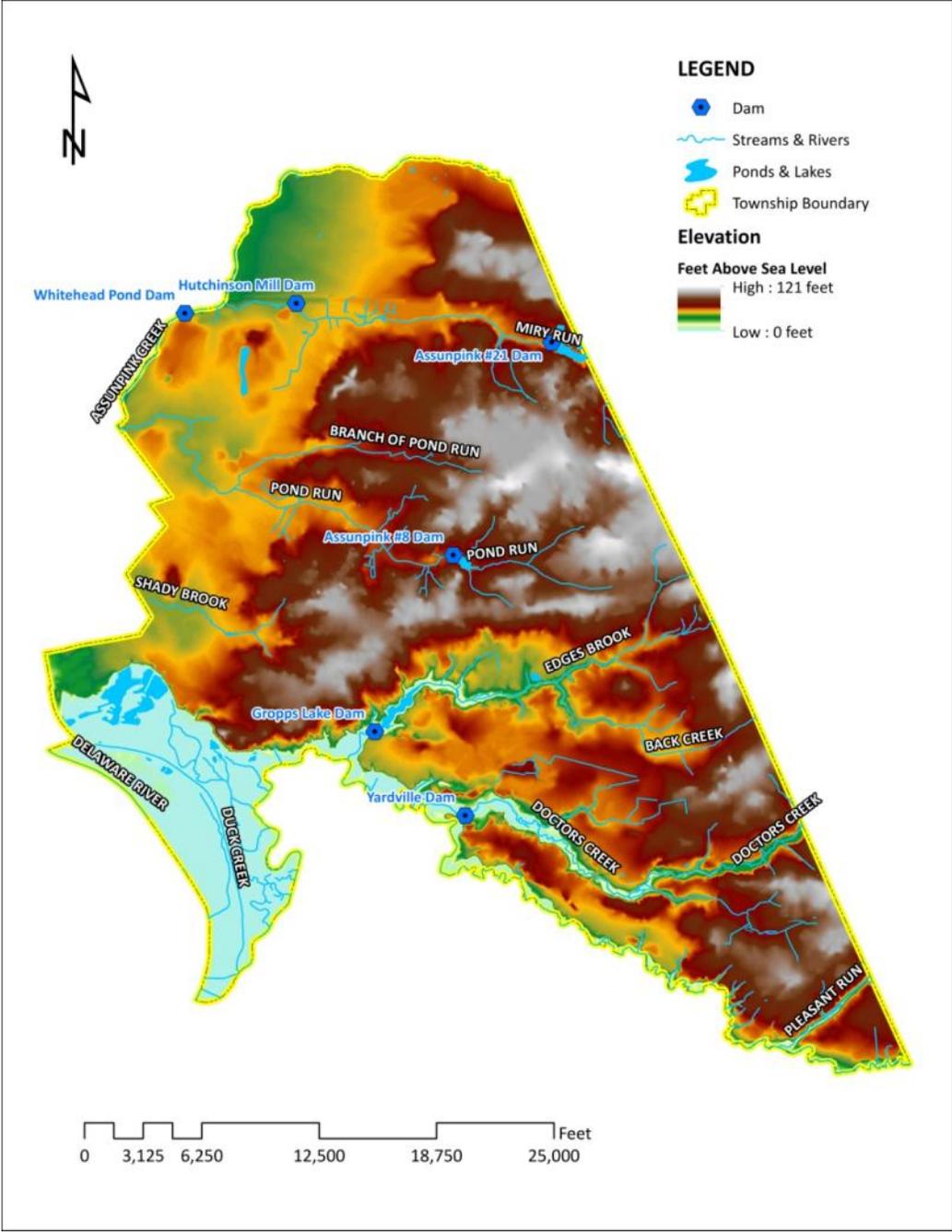


Figure 2. Elevation of Hamilton Township.

## Input Parameters

### ***Subbasin Delineation and Properties***

Subbasins were delineated during ArcGIS basin processing in HEC-GeoHMS. Note that the entire watersheds for Miry Run, Pond Run, Shady Brook, Doctors Creek, and Back Creek were included in the model regardless of whether or not there are portions in Hamilton Township or an adjacent municipality or county (Figure 3). While it is understood that Hamilton Township does not have jurisdiction over the portions of the modeled watersheds not contained within its borders, this model development was performed to represent a complete picture of the hydrology for each watershed. Only the portions of Assunpink Creek and Crosswicks Creeks located within Hamilton Township were modeled to obtain runoff values for those land uses under the Township's jurisdiction (Figure 3). This caused the model to split Crosswicks Creek into upper and lower subwatersheds (Figure 3).

Information compiled and derived as input parameters for the hydrologic models of seven watersheds in Hamilton Township include land use and impervious cover, hydrologic soil group, curve number, and time of concentration. Refer to Appendices I-XXI for detailed information regarding individual subbasins, the properties used and data input for each watershed modeled, and the model output.

### **Land Use and Impervious Cover**

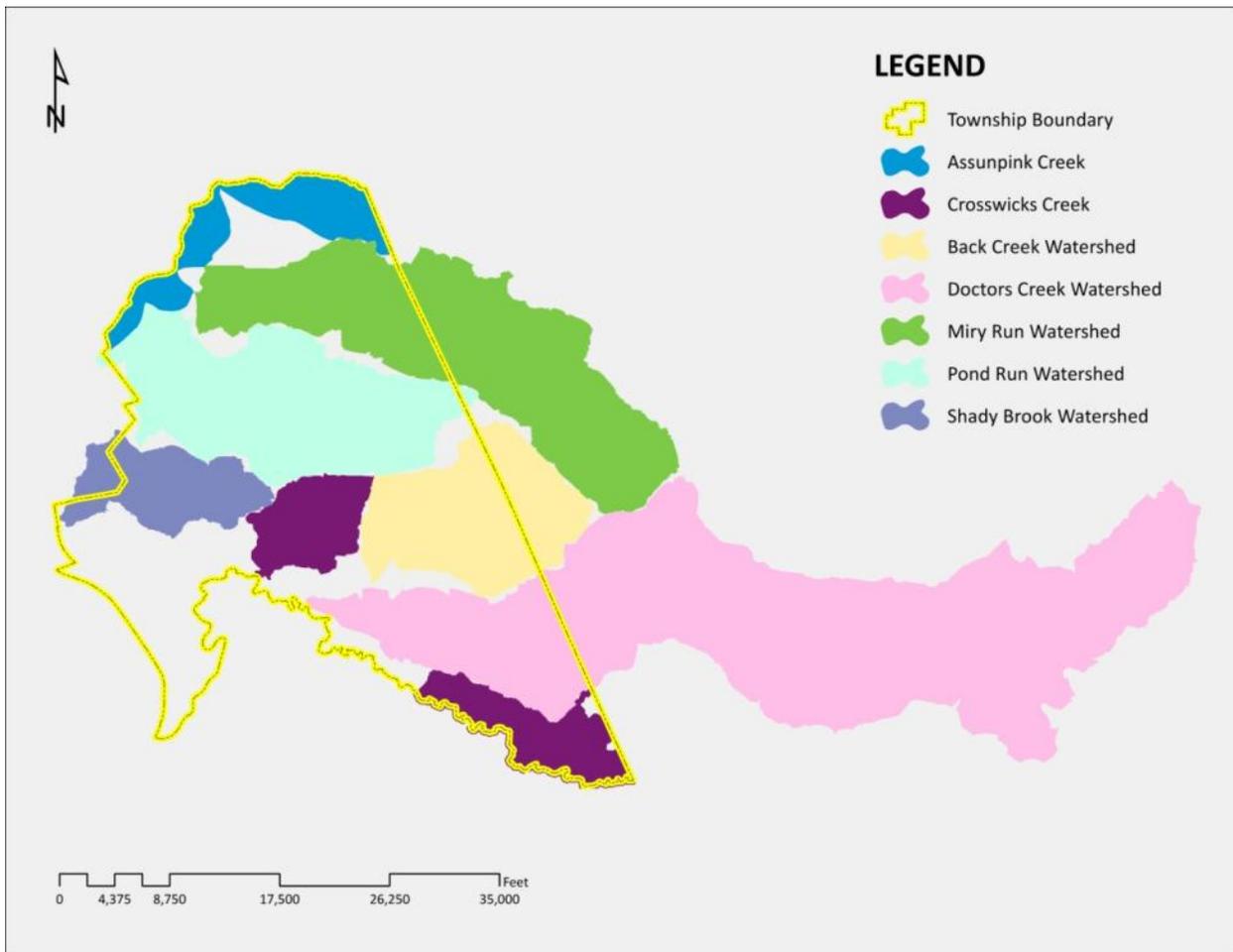
Land use and impervious cover directly affect the ability for stormwater to recharge aquifers and to prevent downstream flooding. Developed areas have a greater percentage of impervious surfaces, which increases the rate and volume of runoff.<sup>1</sup> Increasing impervious surfaces associated with urbanization account for many of the alterations to watershed hydrology. Urbanization converts natural habitats to land uses with impervious surfaces (such as asphalt and concrete) that reduce or prevent soil infiltration of precipitation. Large amounts of impervious surfaces have negative impacts by increasing the amount of water and associated contaminants and

*Impervious surfaces are defined as any surface that has been covered with a layer of material so that it is highly resistant to infiltration by water. Examples include but are not limited to paved roadways, paved parking areas, building roofs and greenhouses.*

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<sup>1</sup> RCE Water Resources Program, 2011

sediments that flow through the watershed. This runoff, when managed improperly, is a major pathway for the transportation of pollutants such as debris, fertilizer, bacteria, and/or petroleum products. Increased runoff causes flooding when flood control measures are exceeded. Many of the watersheds modeled for Hamilton Township exhibit high amounts of developed areas (Table 2). The land uses and impervious cover for Miry Run, Pond Run, Shady Brook, Doctors Creek, Back Creek, Assunpink Creek and Crosswicks Creek are spread out over large areas of each watershed (Figures 4-17).

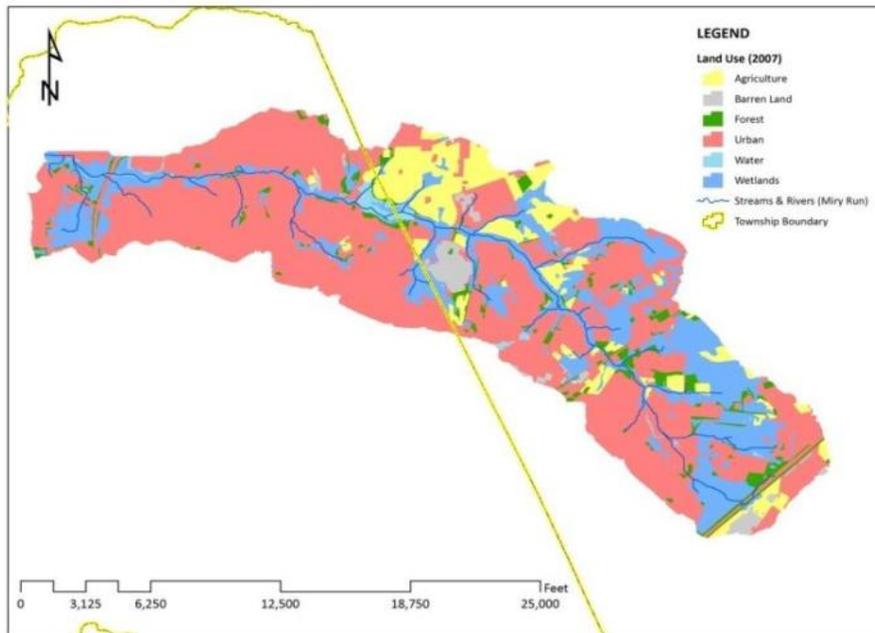


**Figure 3. Project subwatersheds delineated in HEC-GeoHMS.**

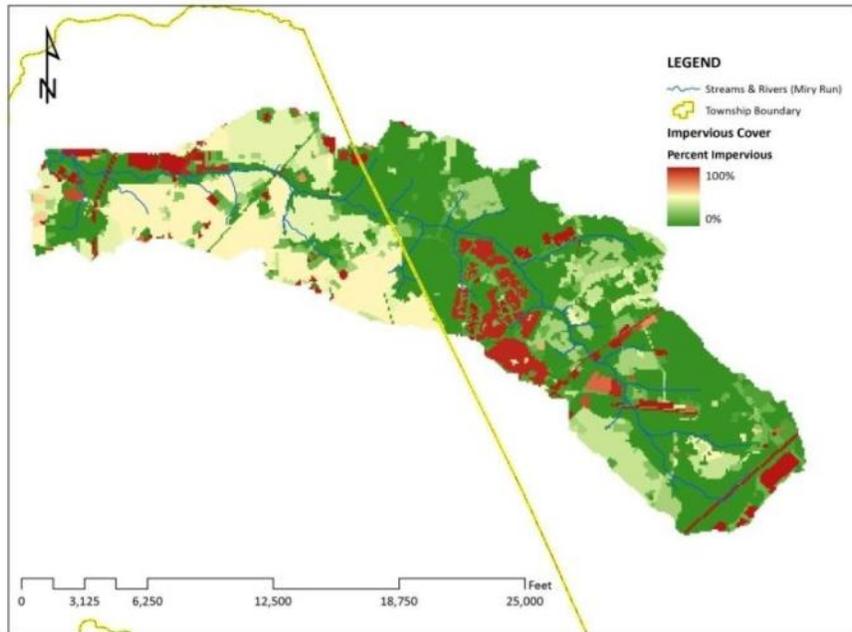
**Table 2. Land use percentages within modeled subwatersheds.**

Land Use	Percent in Watershed
<i>Miry Run</i>	
Water	1.25%
Wetlands	23.51%
Forest	4.70%
Agriculture	13.76%
Barren Land	1.26%
Urban	55.53%
<i>Pond Run</i>	
Water	0.57%
Wetlands	13.72%
Forest	7.37%
Agriculture	2.75%
Barren Land	1.55%
Urban	74.05%
<i>Shady Brook</i>	
Water	0.11%
Wetlands	2.37%
Forest	2.17%
Agriculture	0.00%
Barren Land	0.07%
Urban	95.27%
<i>Doctors Creek</i>	
Water	1.23%
Wetlands	14.60%
Forest	15.11%
Agriculture	49.34%
Barren Land	1.35%
Urban	18.37%
<i>Back Creek</i>	
Water	0.38%
Wetlands	31.84%
Forest	12.44%
Agriculture	12.41%
Barren Land	0.28%
Urban	42.66%
<i>Assumpink Creek</i>	
Water	1.43%
Wetlands	26.07%
Forest	9.91%
Agriculture	0.44%
Barren Land	3.56%
Urban	58.59%
<i>Crosswicks Creek</i>	
Water	2.78%
Wetlands	13.32%
Forest	11.85%
Agriculture	24.18%
Barren Land	1.32%
Urban	46.55%

The area directly buffering Miry Run is mostly wetlands with some urban areas upstream. A little over half of the watershed is urbanized, with wetlands at 23.51% of the watershed followed by agricultural land at 13.76% (Table 2; Figure 4). Most subbasins average less than 25% impervious cover, and none of the 65 exceeds 50% impervious cover (Figure 5). Of the five watersheds, Miry Run has the most favorable land cover for expediting groundwater recharge and minimizing flooding.

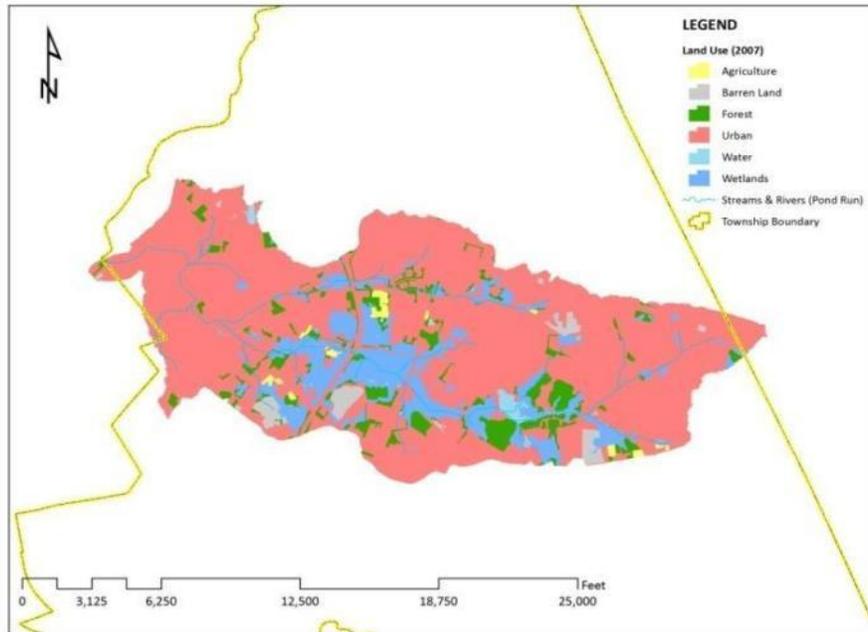


**Figure 4. Miry Run land use.**

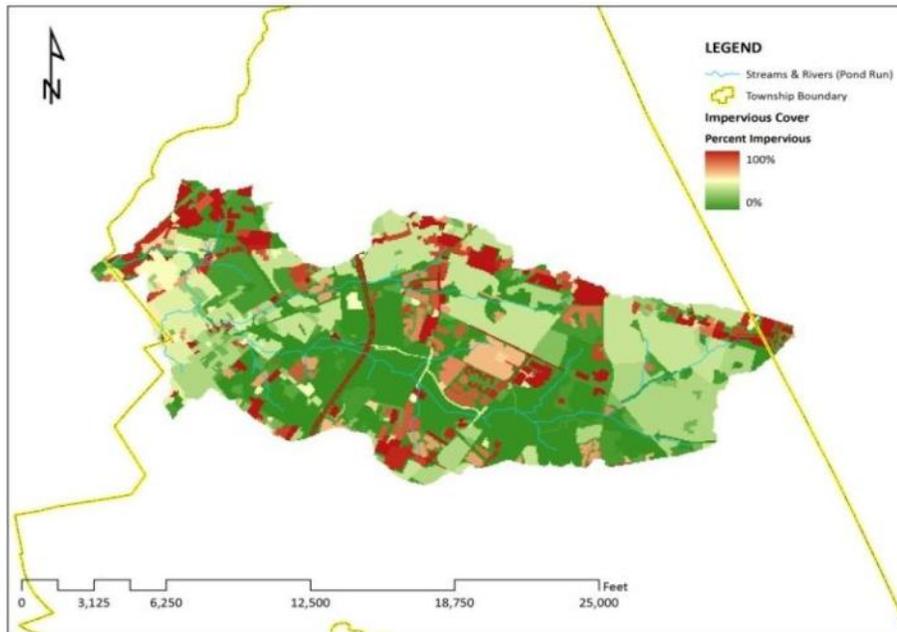


**Figure 5. Miry Run impervious cover.**

Pond Run is 74.05% urban with 13.72% wetlands and 7.37% forests (Table 2; Figure 6). Wetlands directly buffering Pond Run are found downstream of Assunpink #8 dam and around Pond Run's north branch. Over half of Pond Run's 45 subbasins contain more than 25% impervious surface (Figure 7).

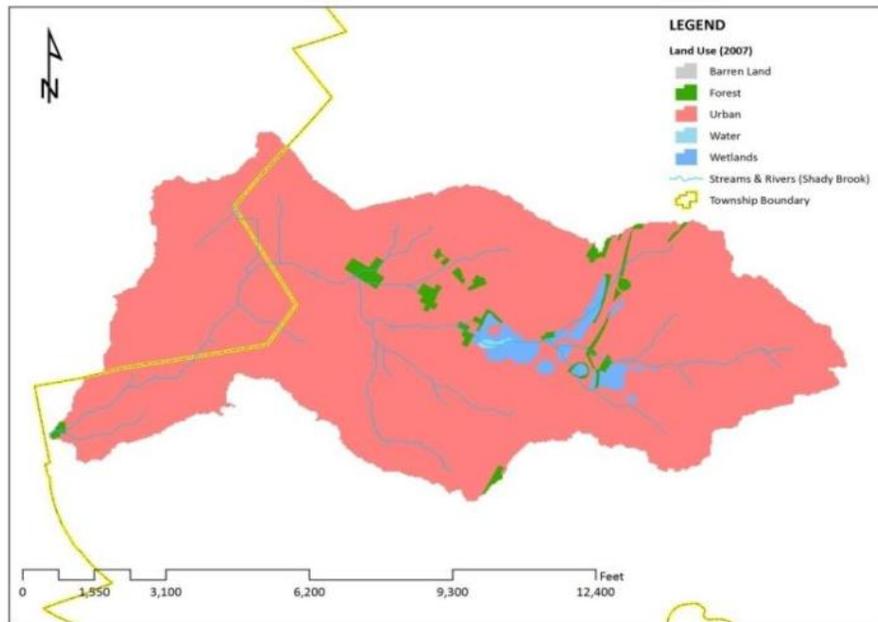


**Figure 6. Pond Run land use.**

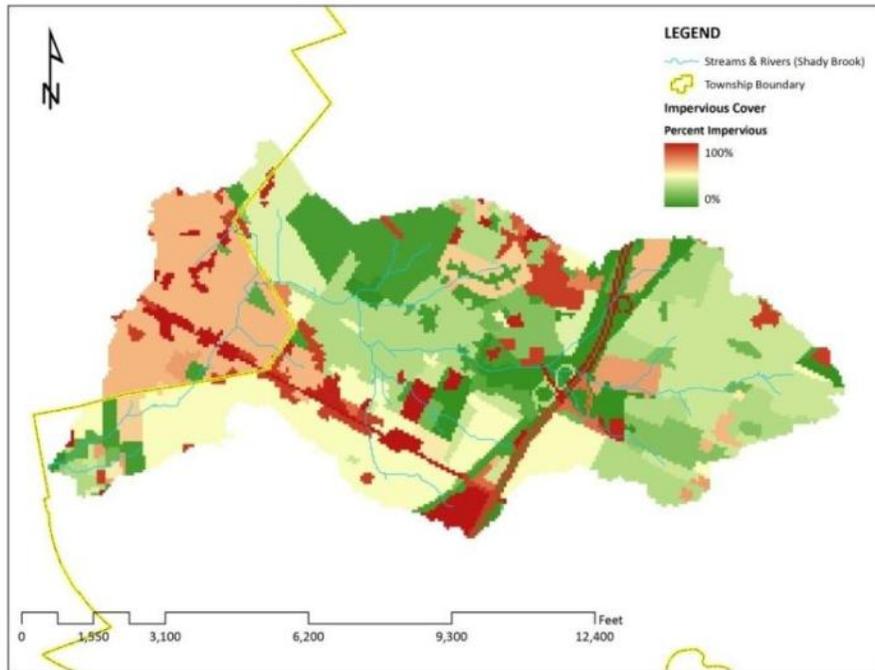


**Figure 7. Pond Run impervious cover.**

Shady Brook is highly urban (Figure 8) with roughly a quarter of its 55 subbasins exhibiting over 50% impervious cover (Figure 9). There are some wetlands surrounding Shady Brook, but most of it is buffered by urban land (Figure 8).

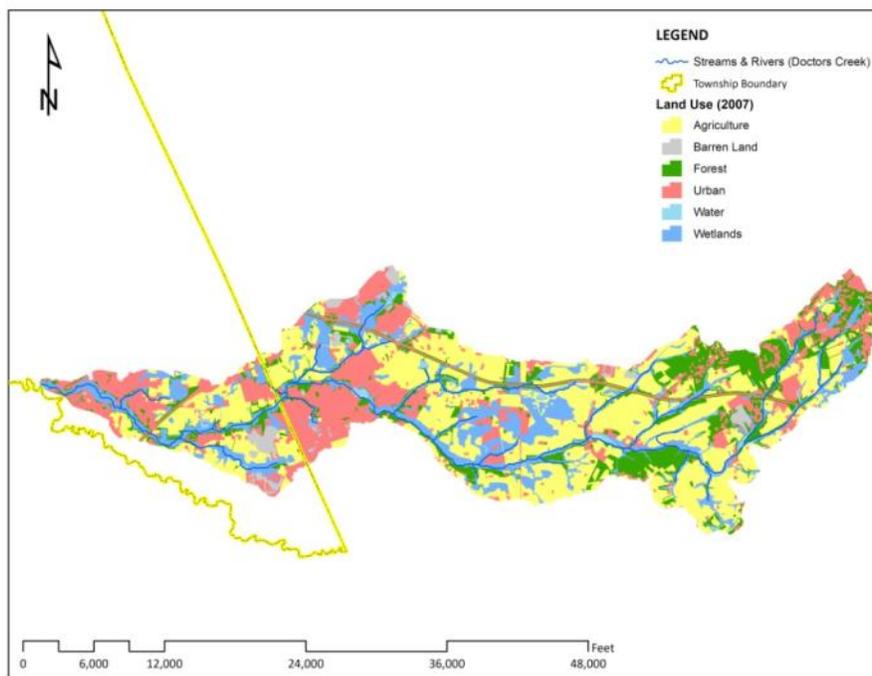


**Figure 8. Shady Brook land use.**

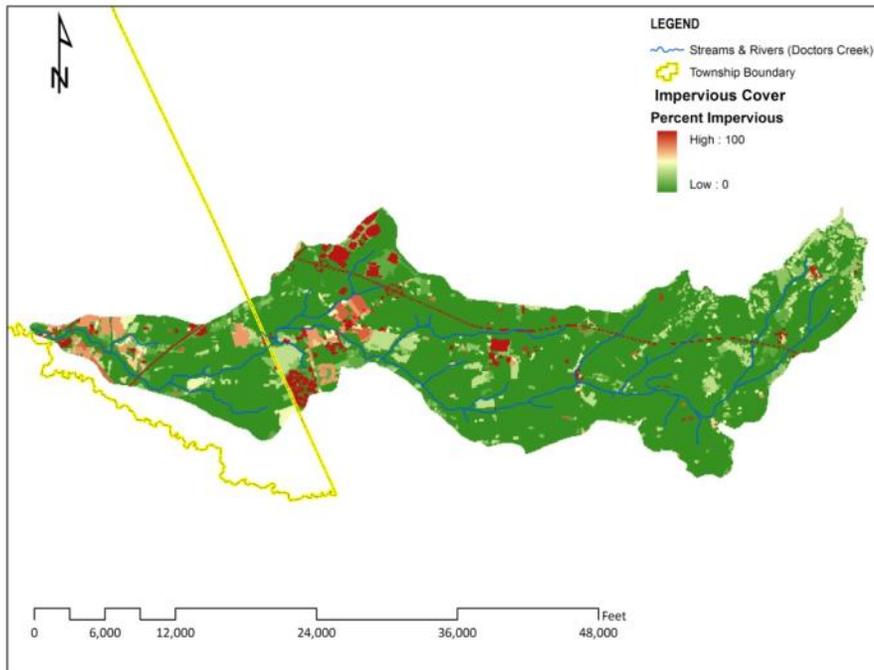


**Figure 9. Shady Brook impervious cover.**

Doctors Creek displays the lowest percent of urbanized land at only 18.37% (Table 2). It is highly agricultural with 49.34% of water land uses in agriculture (Table 2; Figure 10). It exhibits only 4.1% overall impervious cover (Figure 11).

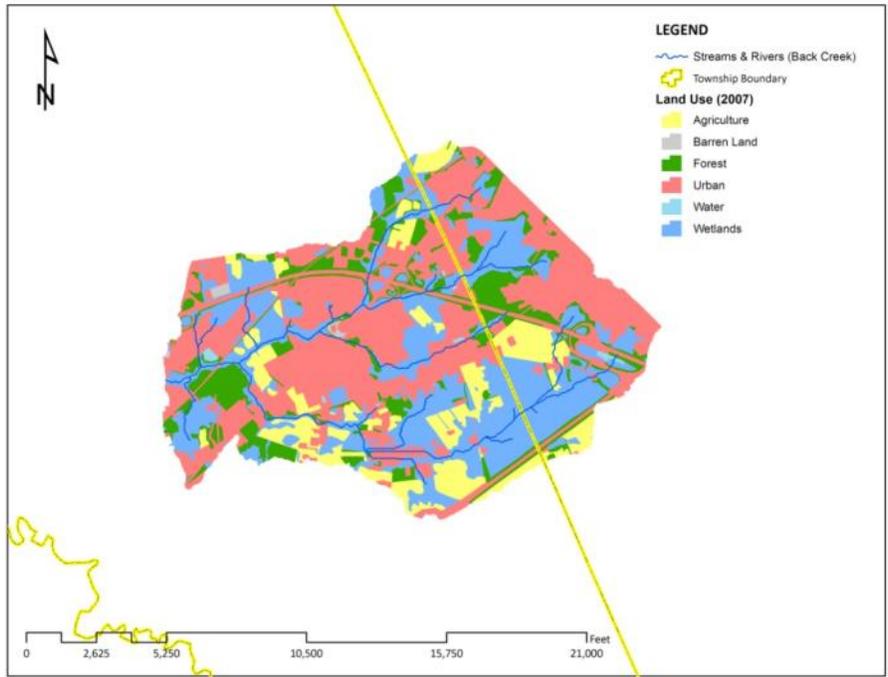


**Figure 10. Doctors Creek land use.**

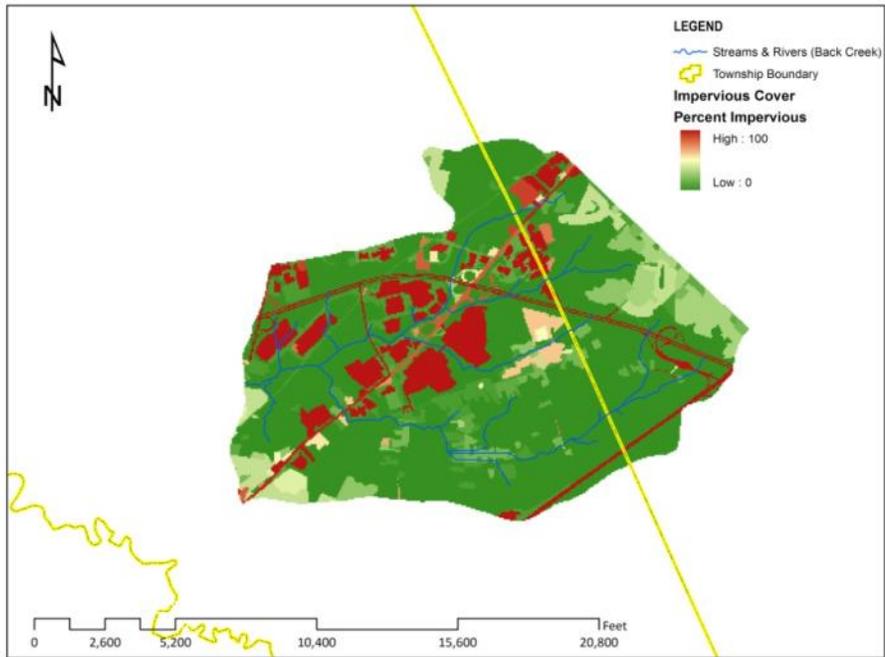


**Figure 11. Doctors Creek impervious cover.**

Back Creek consists primarily of urbanized and wetland land cover, at 42.66% and 31.84%, respectively (Table 2; Figure 12). It exhibits only 16.3% impervious cover (Figure 13).

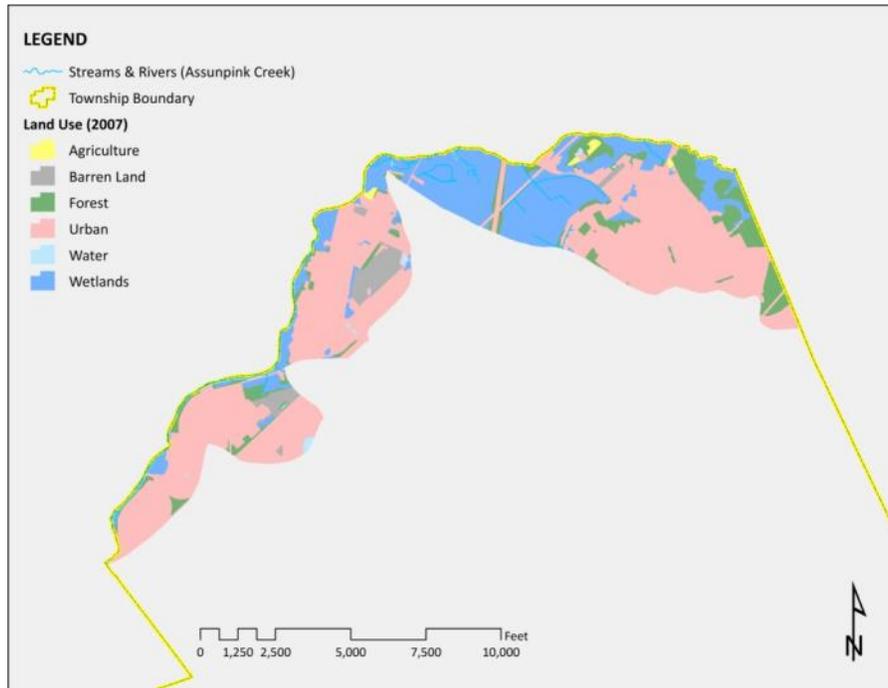


**Figure 12. Back Creek land use.**



**Figure 13. Back Creek impervious cover.**

Assumpink Creek consists primarily of urbanized and wetland land cover, at 58.59% and 26.07%, respectively (Table 2; Figure 14). The overall impervious cover is 23.7% (Figure 15).

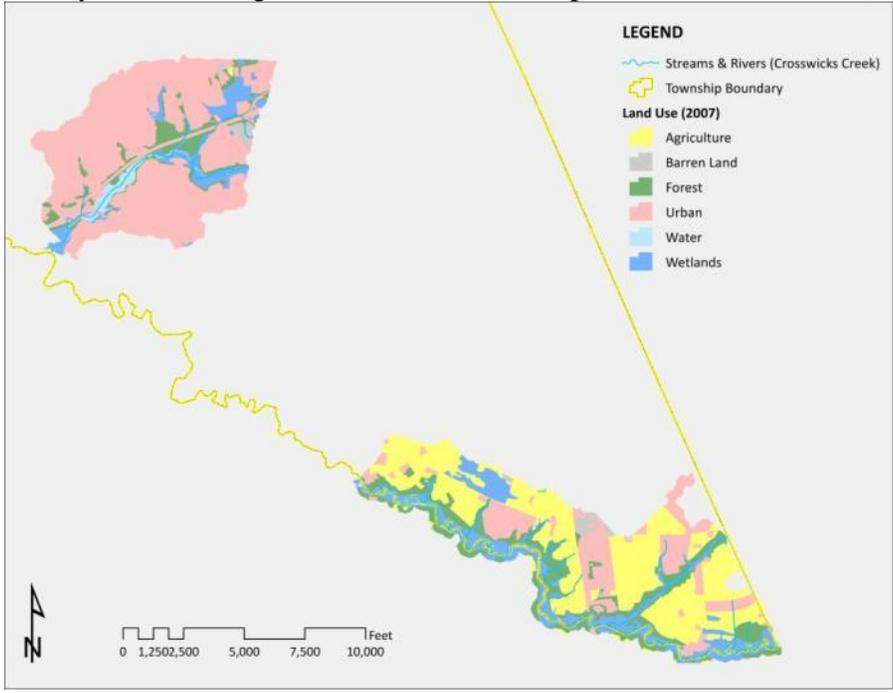


**Figure 14. Assumpink Creek land use.**

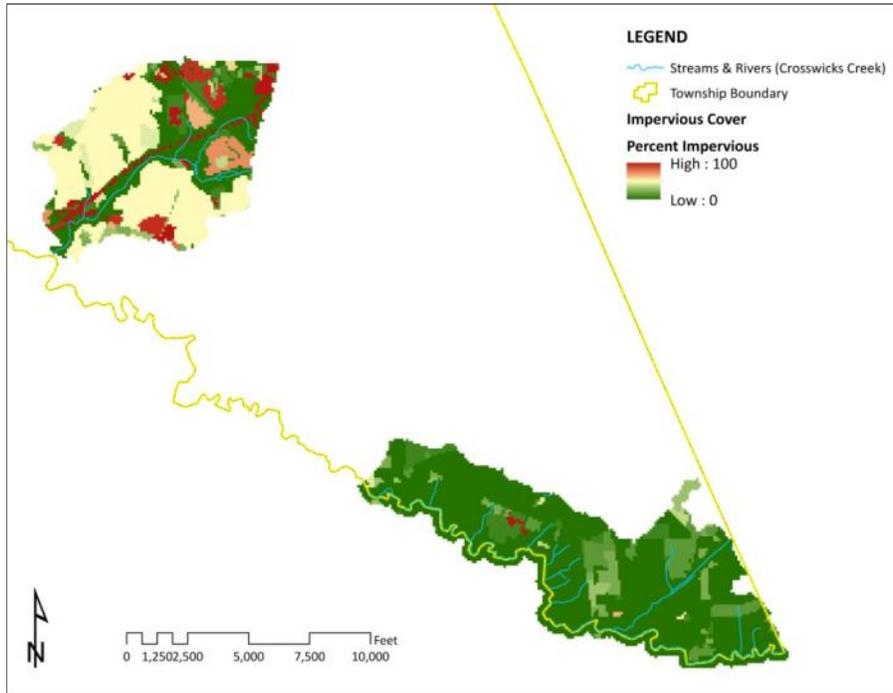


**Figure 15. Assunpink Creek impervious cover.**

Crosswicks Creek consists primarily of urbanized and agricultural land cover, at 46.55% and 24.18%, respectively (Table 2; Figure 16). The overall impervious cover is 14.5 (Figure 17).



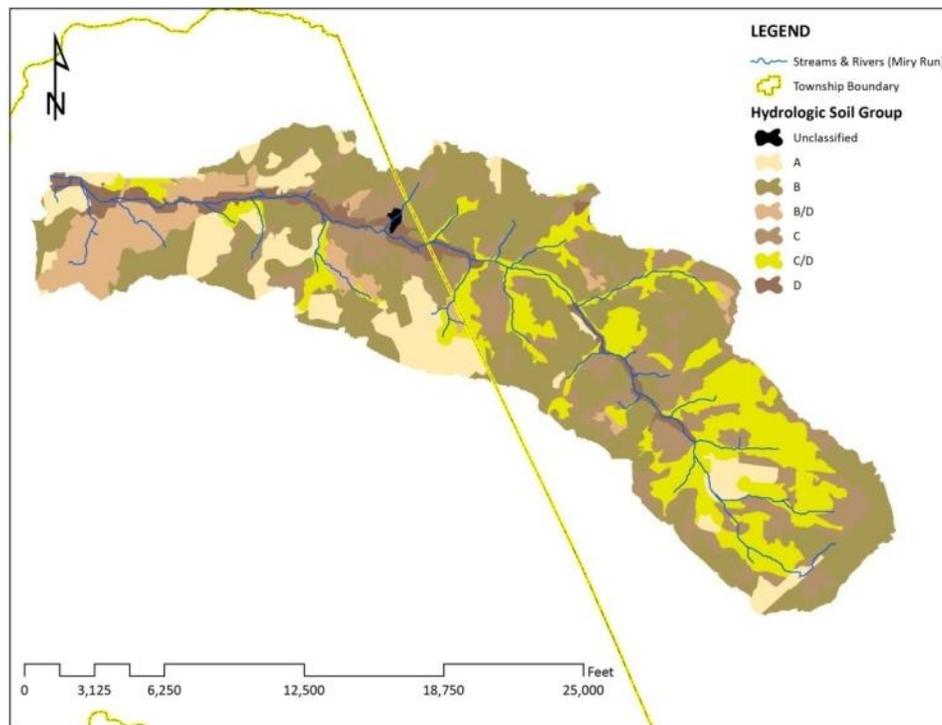
**Figure 16. Crosswicks Creek land use.**



**Figure 17. Crosswicks Creek impervious cover.**

## Hydrologic Soil Group

Hydrologic soil groups quantify a soil's ability to drain water.<sup>1</sup> It is important to recognize soil infiltration not only as a way to decrease flooding, but also as a way to improve water quality and quantity in local aquifers. Stormwater runoff volume decreases the more a soil provides infiltration. The hydrologic groups range from A, which has the highest infiltration rates, to D, which has the slowest infiltration rates. There are two dual hydrologic groups (B/D and C/D) in which the first letter applies to the drained condition and the second letter to the undrained condition.<sup>2</sup> Group A soils tend to be sandier, whereas Group D soils are denser clays or shallow layers over impervious surfaces.<sup>3</sup> Figures 14-31 show the locations and percentages of hydrologic soil groups found within Miry Run, Pond Run, Shady Brook, Doctors Creek, Back Creek, Assunpink Creek and Crosswicks Creek.

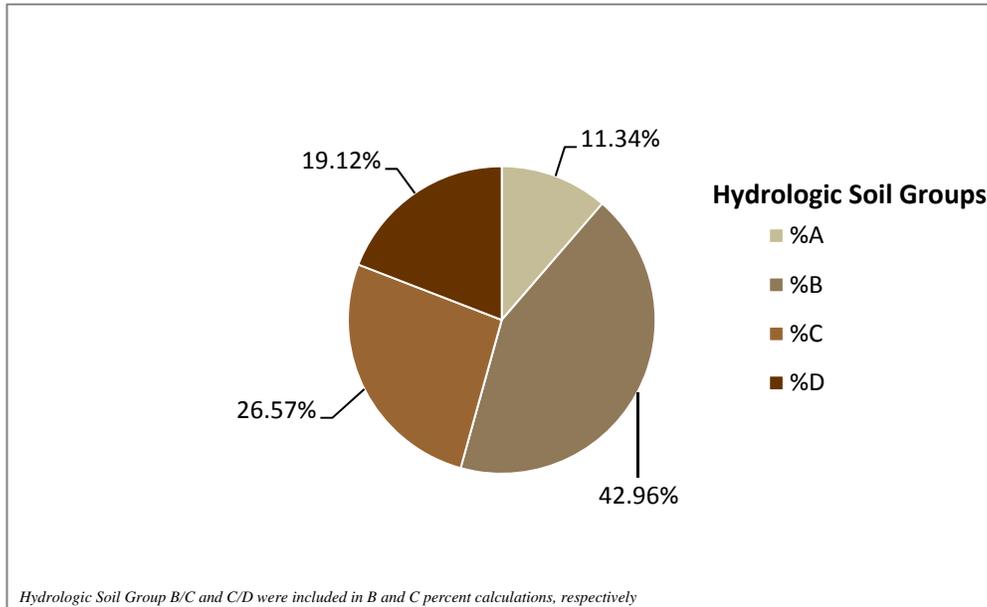


**Figure 18. Miry Run hydrologic soil groups**

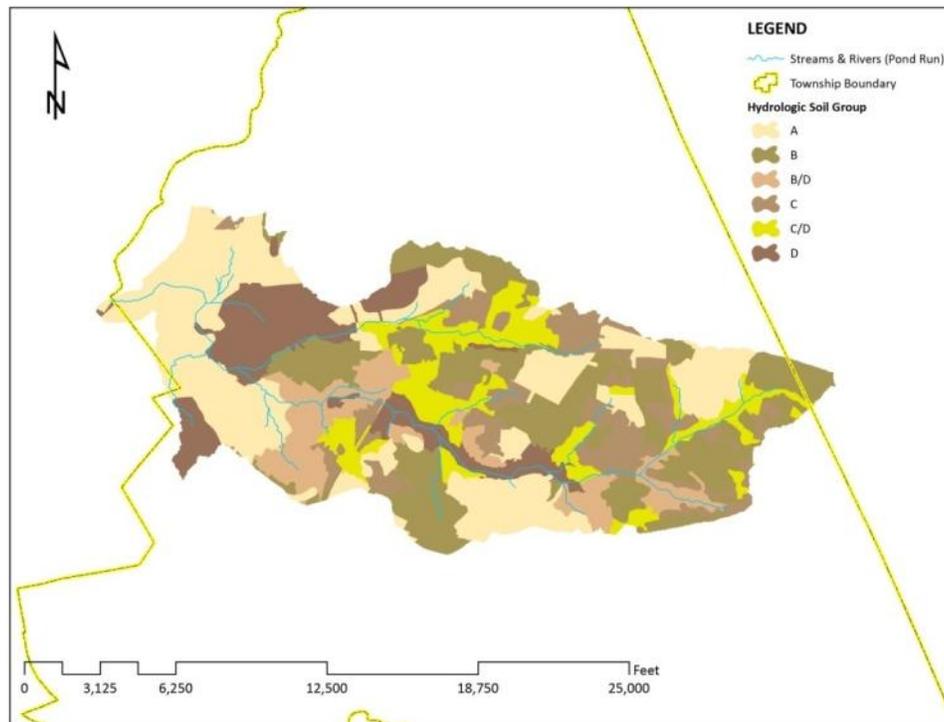
<sup>1</sup> RCE Water Resources Program, 2011

<sup>2</sup> RCE Water Resources Program, 2011

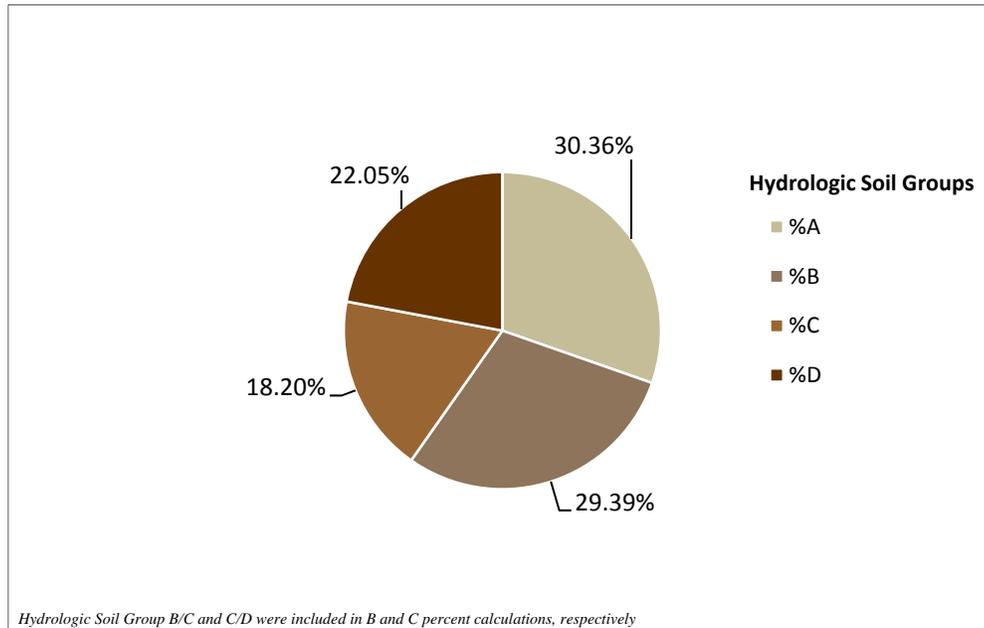
<sup>3</sup> RCE Water Resources Program, 2011



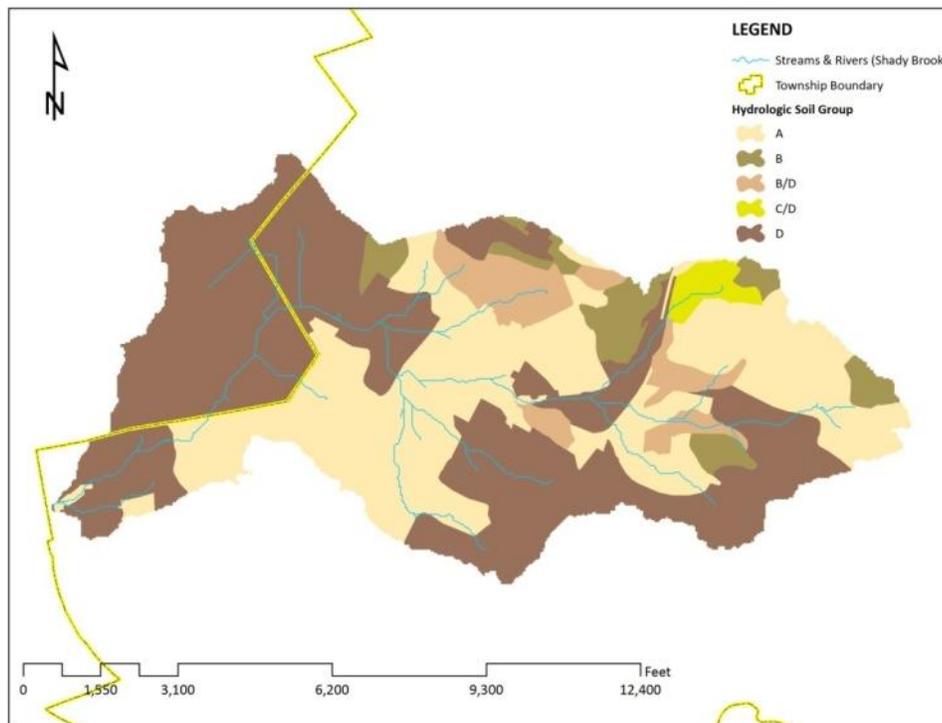
**Figure 19. Miry Run hydrologic soil groups.**



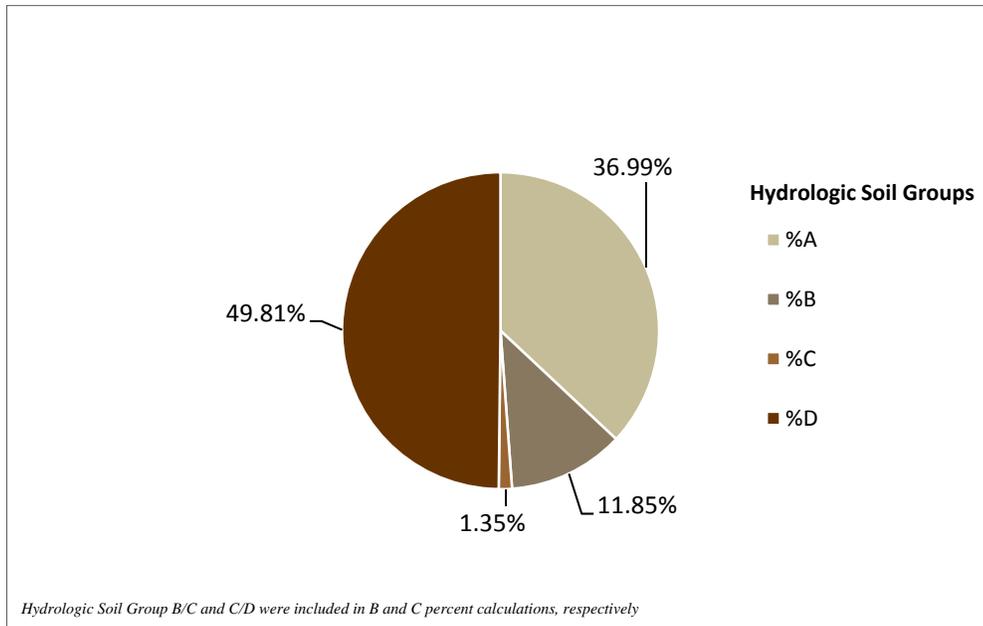
**Figure 20. Pond Run hydrologic soil groups.**



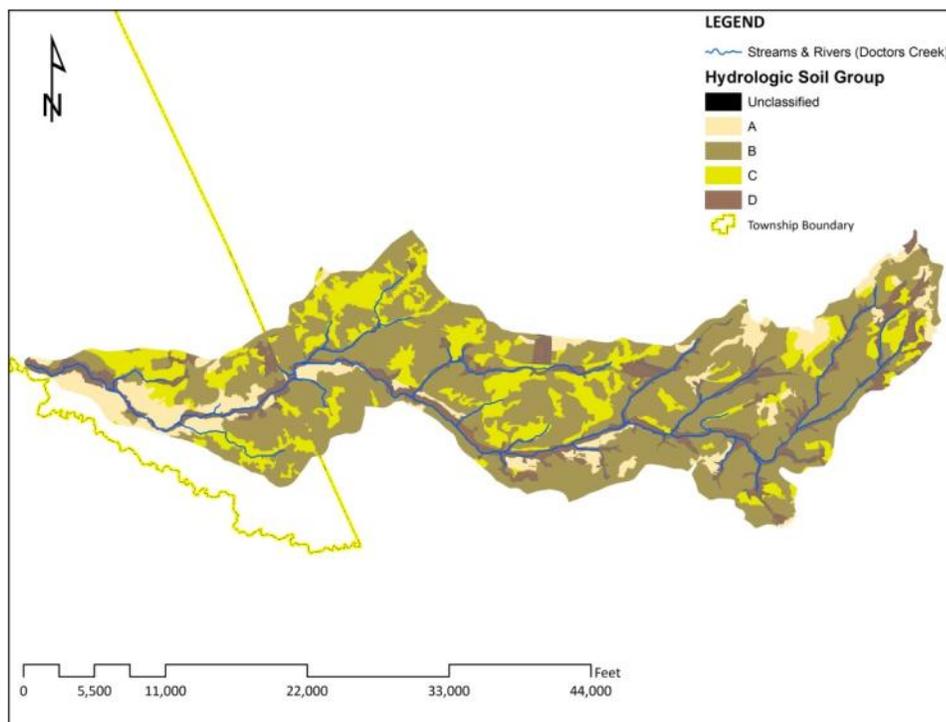
**Figure 21. Pond Run hydrologic soil groups.**



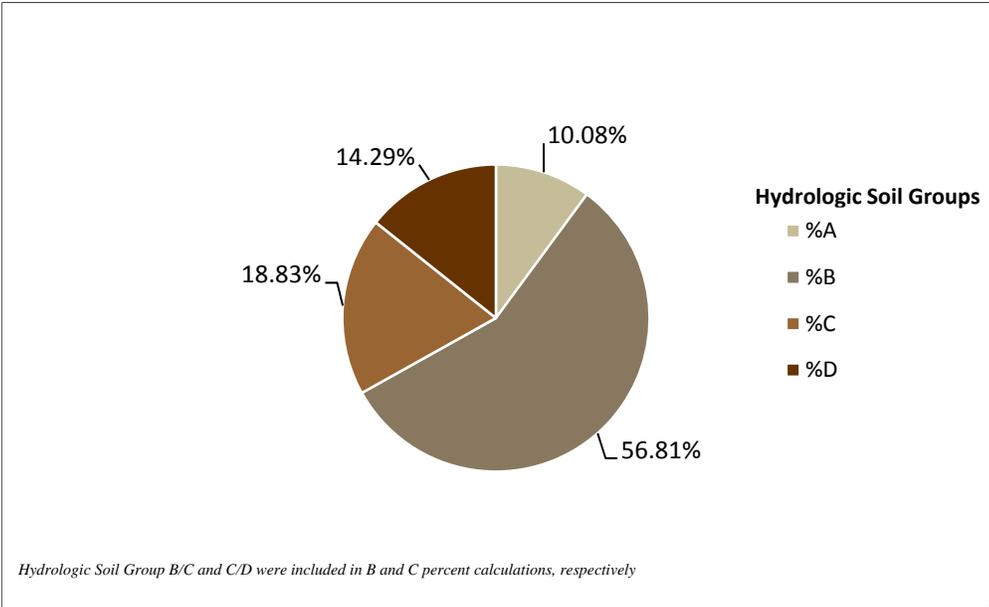
**Figure 22. Shady Brook hydrologic soil groups.**



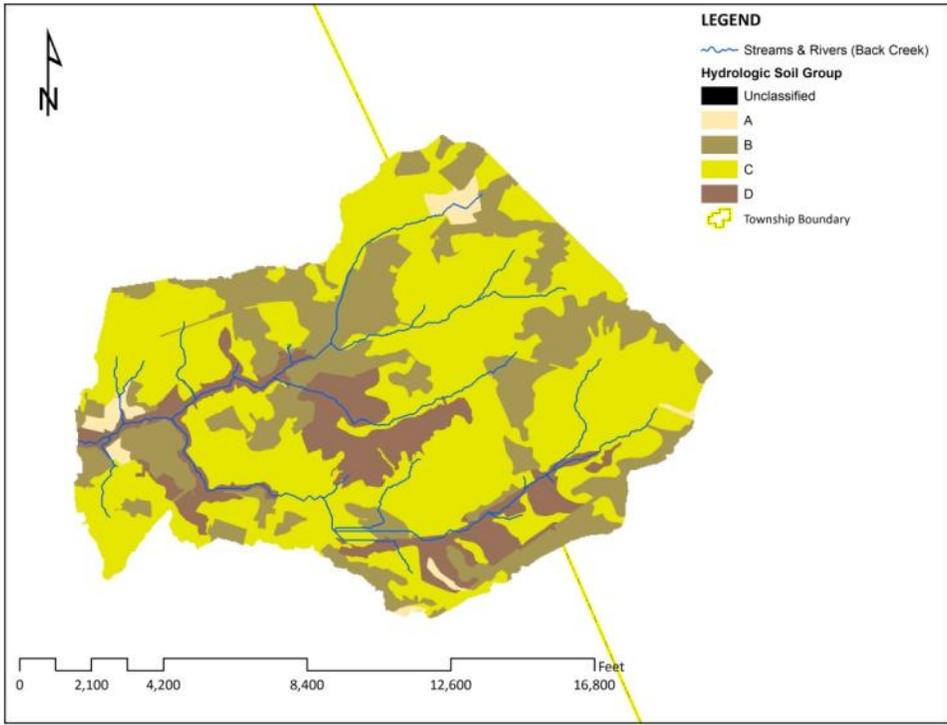
**Figure 23. Shady Brook hydrologic soil groups.**



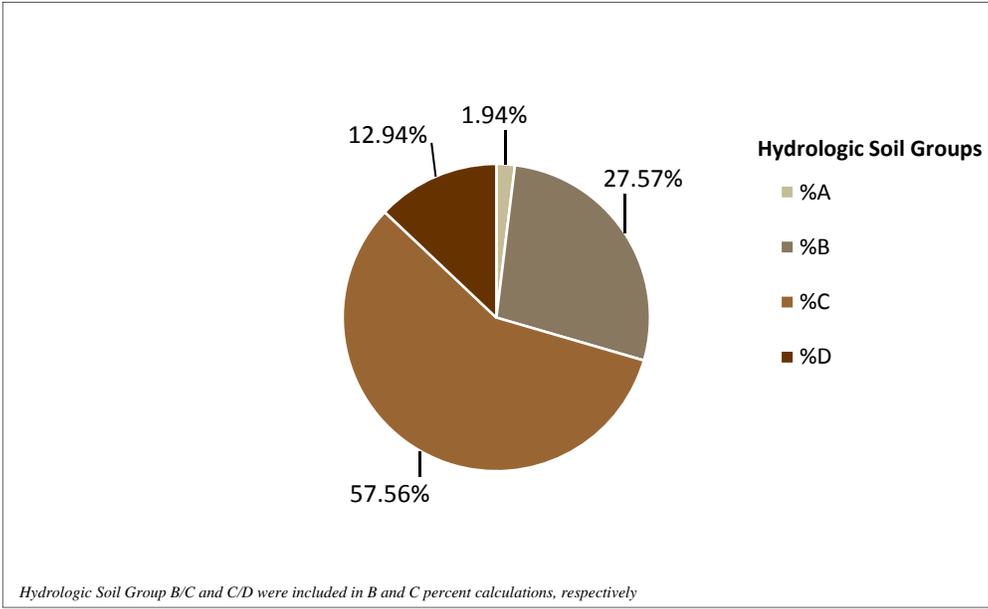
**Figure 24. Doctors Creek hydrologic soil groups.**



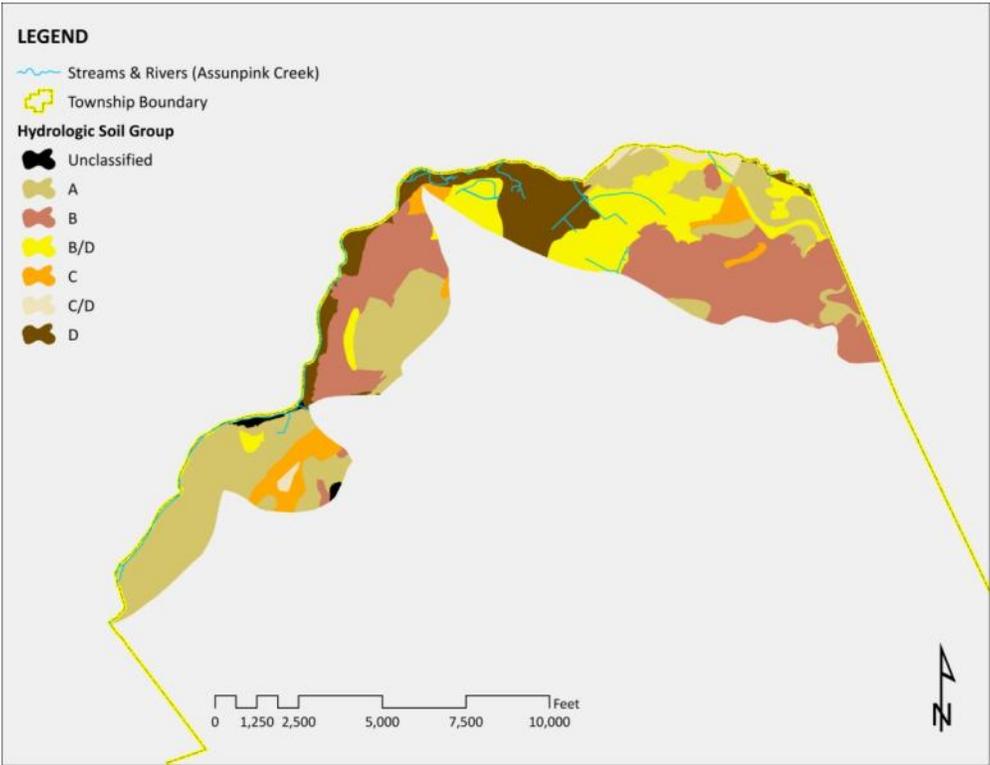
**Figure 25. Doctors Creek hydrologic soil groups.**



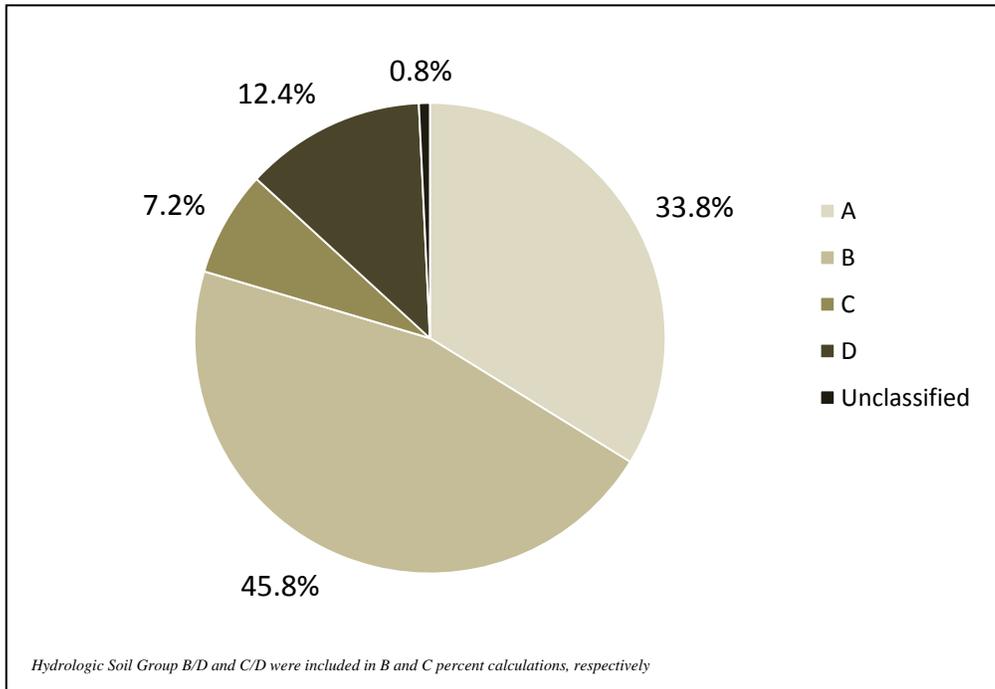
**Figure 26. Back Creek hydrologic soil groups.**



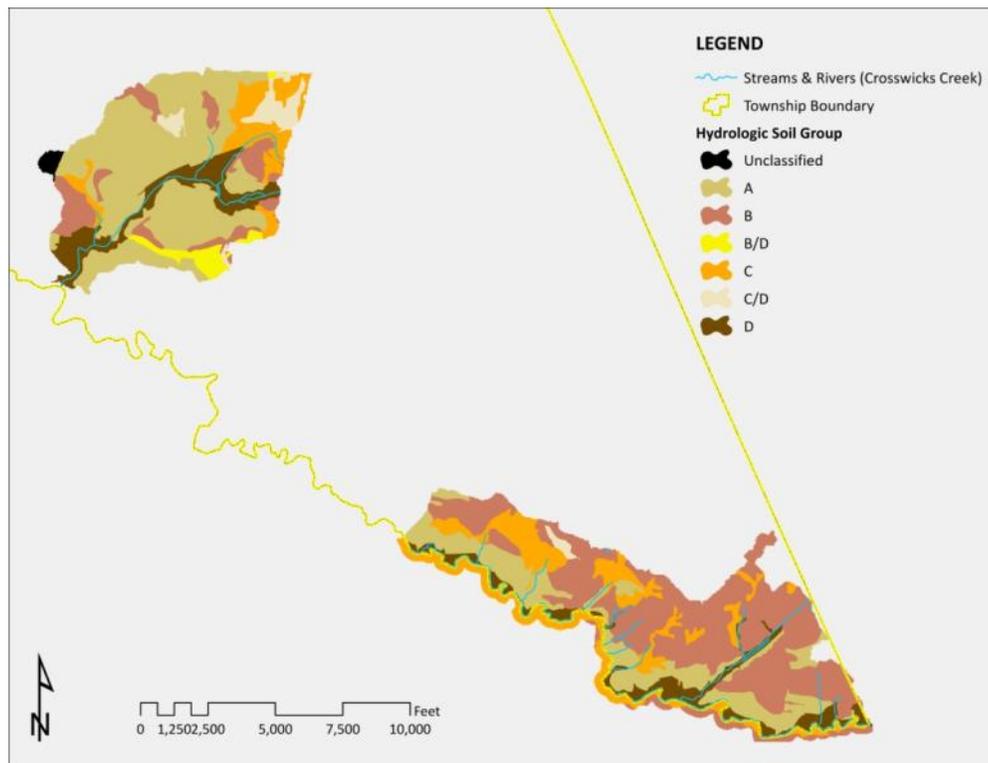
**Figure 27. Back Creek hydrologic soil groups.**



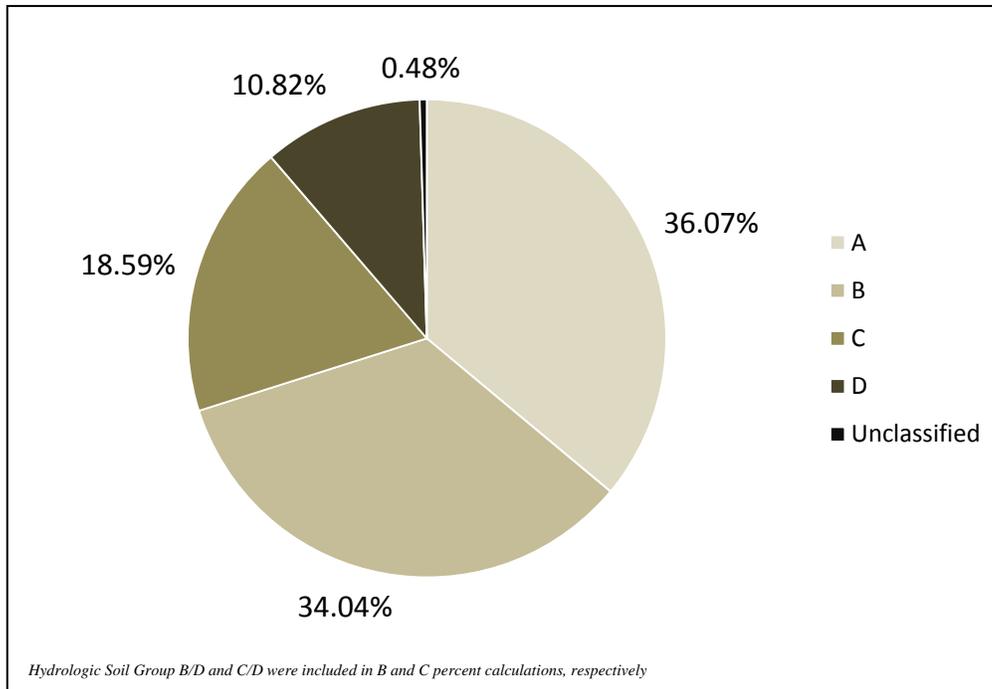
**Figure 28. Assunpink Creek hydrologic soil groups.**



**Figure 29. Assunpink Creek hydrologic soil groups.**



**Figure 30. Crosswicks Creek hydrologic soil groups.**



**Figure 31. Crosswicks Creek hydrologic soil groups.**

### Curve Number

Curve number is used in the SCS Curve Number Method to approximate runoff.<sup>1</sup> The main components for determining curve number are land use and hydrologic soil group.<sup>2</sup> Curve numbers range from 0 to 98, with higher numbers signifying increased likelihood of runoff.<sup>3</sup> Examples of how curve number is affected by land use and hydrologic soil group are found in Table 3. Curve number was calculated in ArcGIS 9.3 using the ArcCN-Runoff tool (<http://arcscripsts.esri.com/details.asp?dbid=13311>). This tool allows for manual matching of SCS classified land uses with state classified land uses. Appendix XII includes the final table showing the curve numbers used in the model and how the 2007 Land Use Labels were matched to the USDA NRCS land use categories for the SCS Method. After the land uses are defined in ArcCN-Runoff, they are joined to a table containing hydrologic soil groups for each watershed, and a curve number is calculated. Figures 32-38 show the curve numbers calculated for Miry Run, Pond Run, Shady Brook, Doctors Creek, Back Creek, Assunpink Creek and Crosswicks Creek.

<sup>1</sup> Purdue University, ND

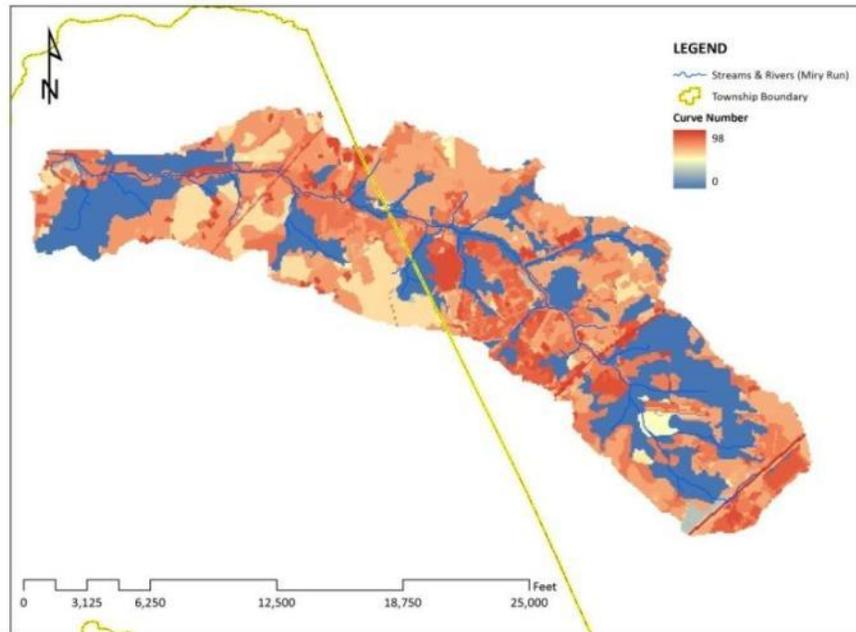
<sup>2</sup> Purdue University, ND

<sup>3</sup> Obropta, 2011

**Table 3. Example Curve Numbers.<sup>4</sup>**

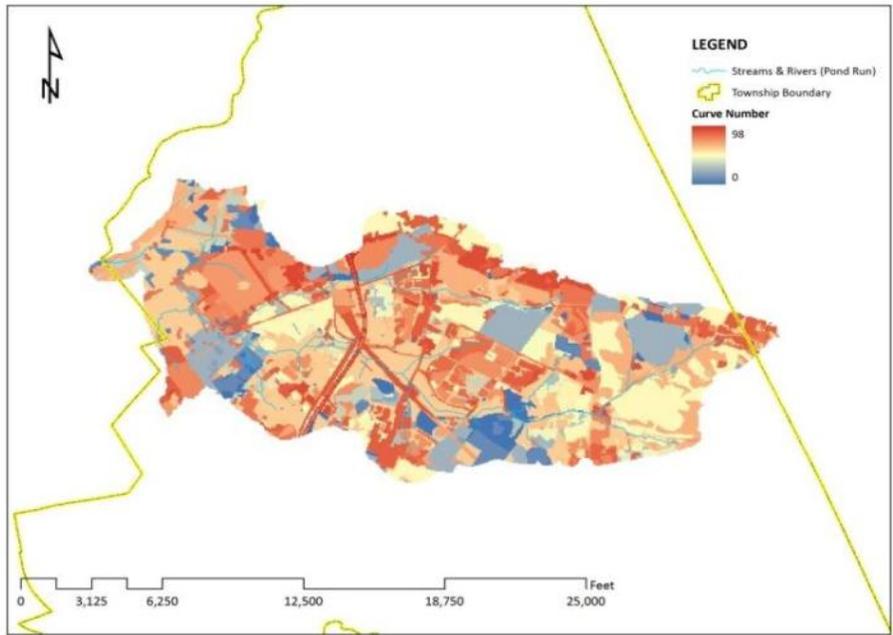
Land Use	Hydrologic Soil Group			
	A	B	C	D
Paved parking lots, roofs, driveways, etc.	98	98	98	98
Commercial and business districts	89	92	94	95
Industrial districts	81	88	91	93
Residential districts – 1 acre	51	68	79	84
Cultivated agricultural lands – Straight row crops, Good condition	67	78	85	89
Woods – Fair condition	36	60	73	79
Meadow	30	58	71	78
Open space – Fair condition	49	69	79	84

Miry Run exhibits lower curve numbers in the regions upstream and downstream of Assunpink Creek (Figure 32).



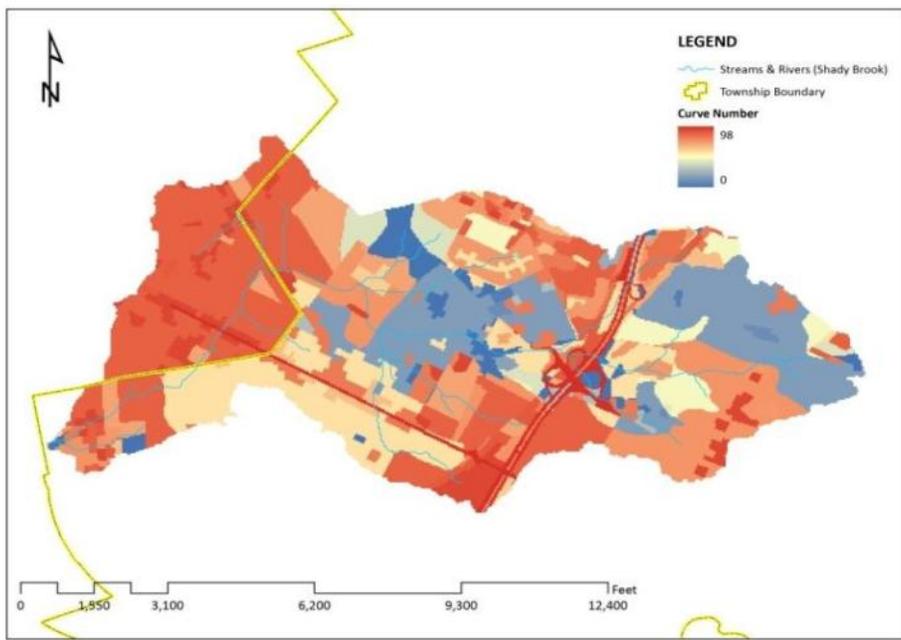
**Figure 32. Miry Run curve numbers calculated using ArcCN-Runoff.**

The lowest curve numbers in Pond Run are found just south of Assunpink #8 dam (Figure 33). This area is a mixture of forest and wetlands and has Hydrologic Soil Group A (Figure 20). There are other scattered areas of Hydrologic Soil Group A that also have low curve numbers.



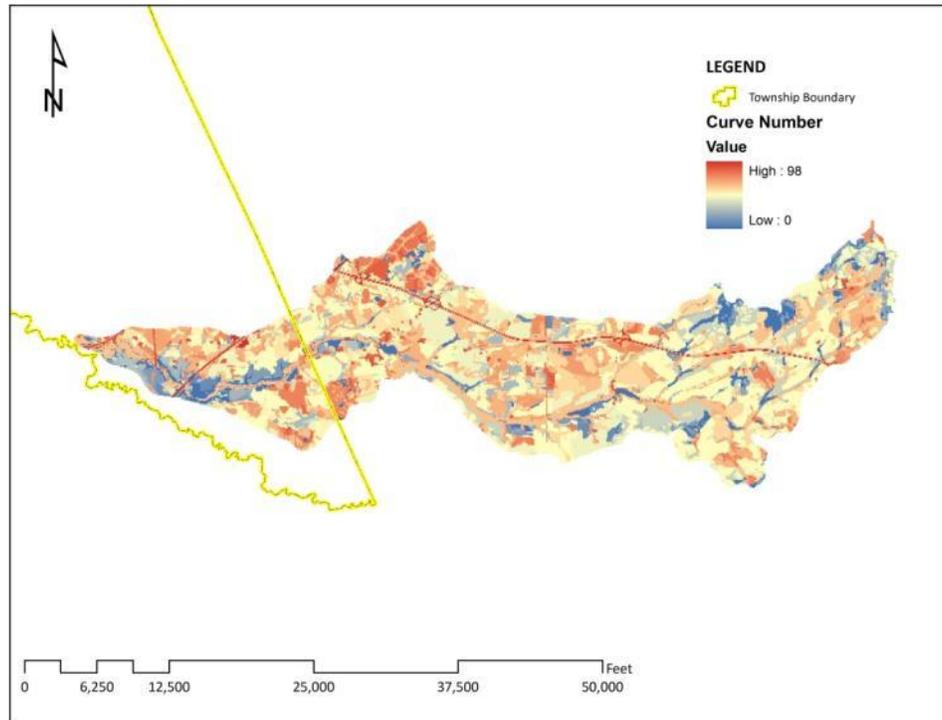
**Figure 33. Pond Run curve numbers calculated using ArcCN-Runoff.**

The lowest curve numbers in Shady Brook are found north of the upstream regions and in the central area of the watershed (Figure 34). This includes the areas with Hydrologic Soil Group A and most of the central wetland region (Figure 22).



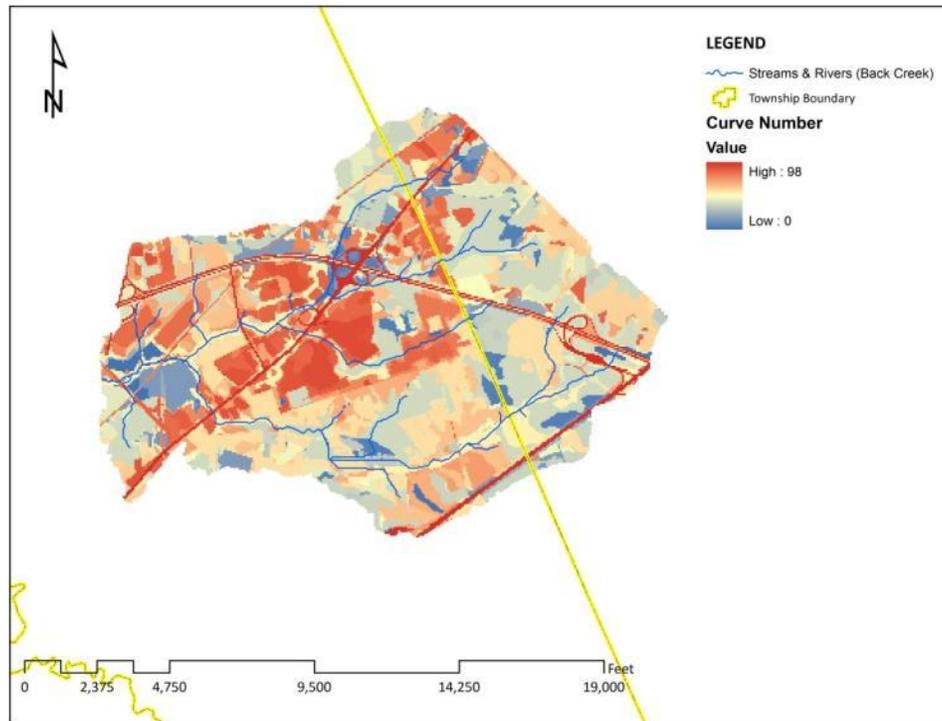
**Figure 34. Shady Brook curve numbers calculated using ArcCN-Runoff.**

The lowest curve numbers in Doctors Creek are found primarily along the stream and in the central area of the watershed (Figure 35). This includes areas with Hydrologic Soil Group A and most of the central wetland region (Figure 24).



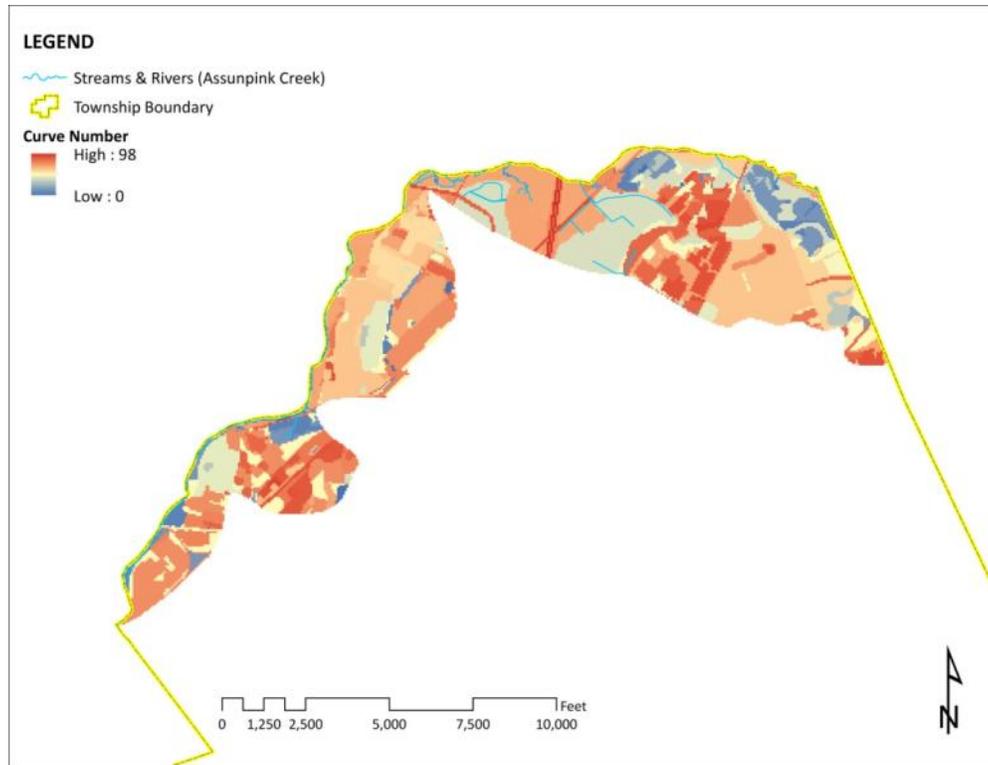
**Figure 35. Doctors Creek curve numbers calculated using ArcCN-Runoff.**

The lowest curve numbers in Back Creek include an area that is a mixture of forest and wetlands and has Hydrologic Soil Group A (Figure 26). They are found primarily along the stream and in the center of the watershed (Figure 36).



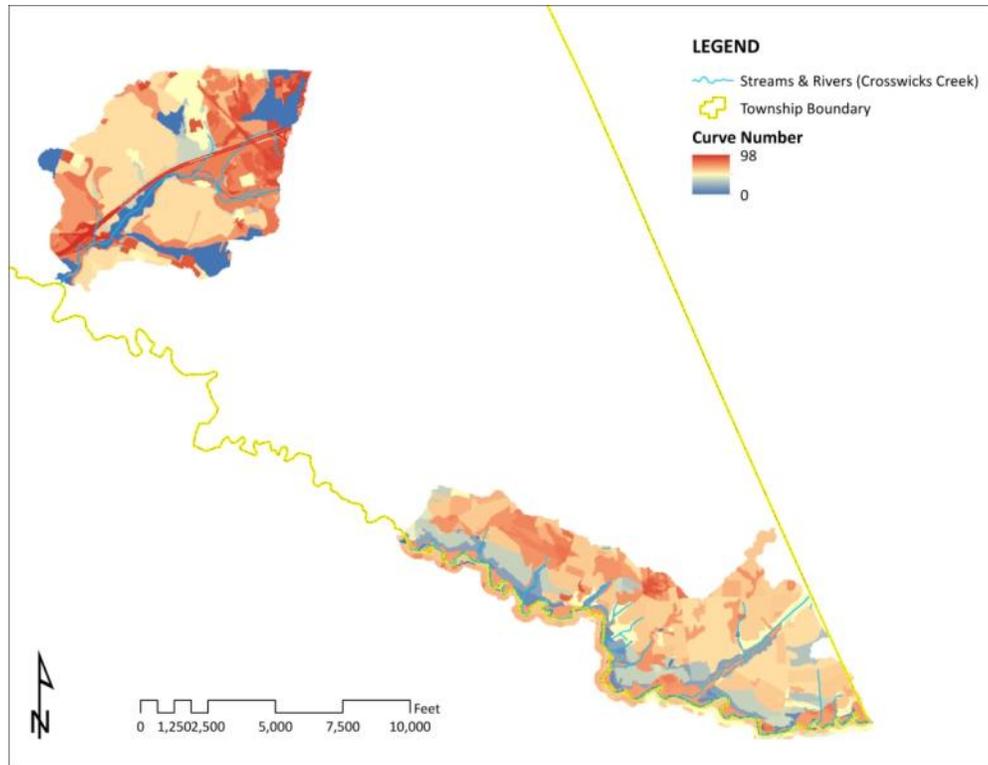
**Figure 36. Back Creek curve numbers calculated using ArcCN-Runoff.**

Assunpink Creek only has a few areas of low curve numbers, which include the northeastern portion of the watershed (Figure 37).



**Figure 37. Assunpink Creek curve numbers calculated using ArcCN-Runoff.**

The lowest curve numbers in Crosswicks Creek include the agricultural areas in the southern portion of town with Hydrologic Soil Groups A and B (Figure 16; Figure 30). They are found primarily along the streams in the lower of the two modeled subwatersheds (Figure 38).



**Figure 38. Crosswicks Creek curve numbers calculated using ArcCN-Runoff.**

### Time of Concentration

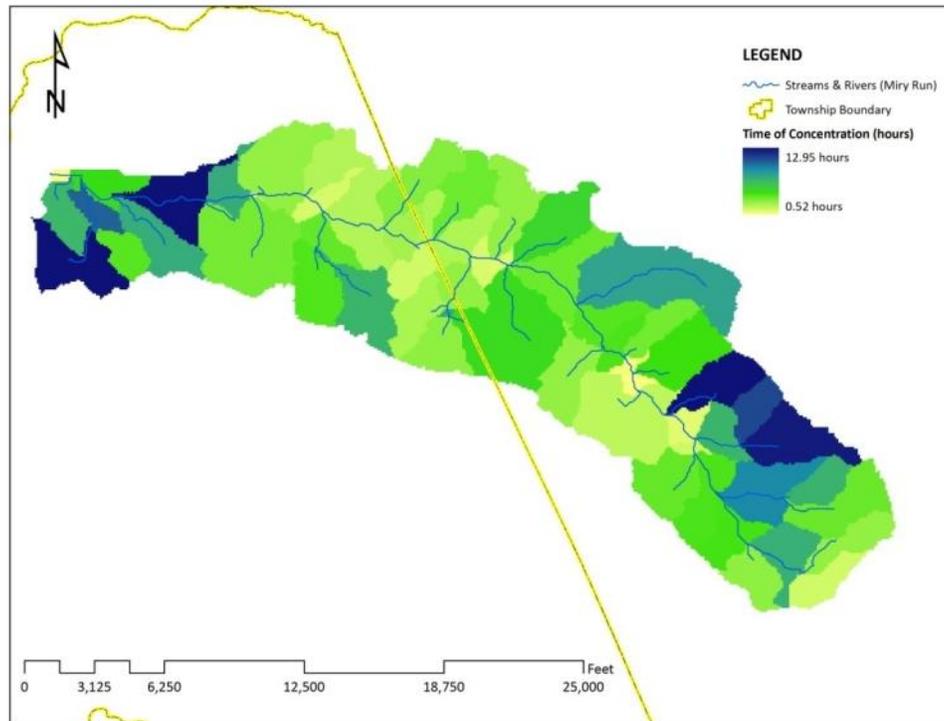
Time of concentration,  $t_c$ , represents the required time for runoff to move from the most hydraulically distant point in a watershed to the outlet, thereby influencing the shape and peak of the resultant hydrograph.<sup>1</sup> This parameter is affected by surface roughness, irregularity, length, and slope of the subbasin.<sup>2</sup> Time of concentration was calculated as 1.67 times the basin lag time. Shorter times of concentration correlate to higher peak runoff rates.<sup>3</sup> Figures 39-44 show the time of concentration for each subbasin in Miry Run, Pond Run, Shady Brook, Doctors Creek, Back Creek, and Crosswicks Creek.

Miry Run exhibits times of concentration approximately ranging from 30 minutes to 13 hours (Figure 39). Much of the watershed remains near the lower value, whereas the wetland areas upstream and downstream tend toward the higher.

<sup>1</sup> USDA NRCS, 2010

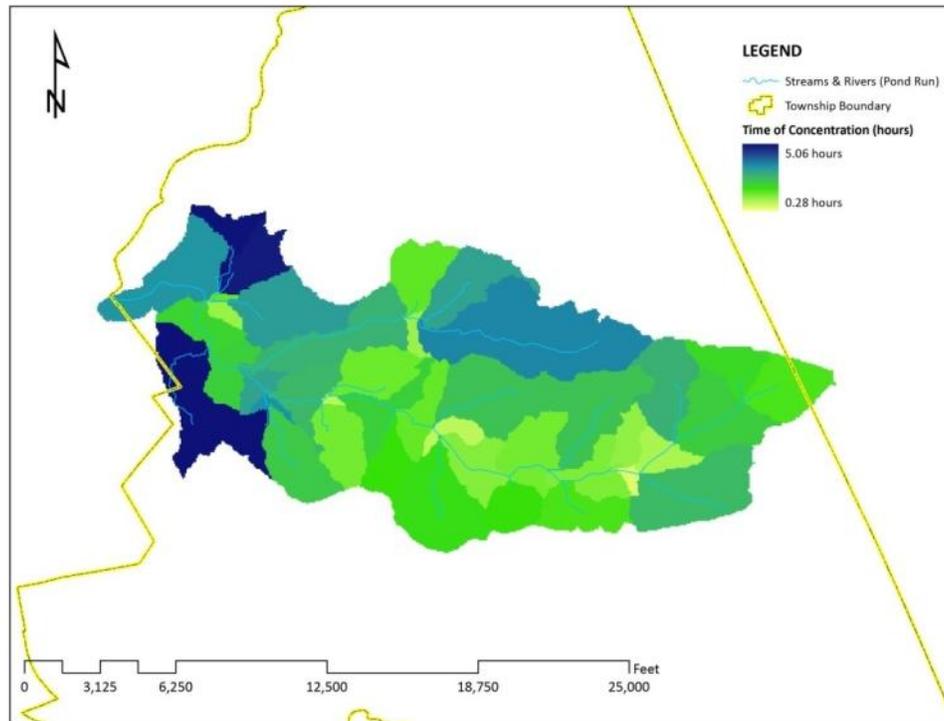
<sup>2</sup> NJDEP, 2004

<sup>3</sup> NJDEP, 2004



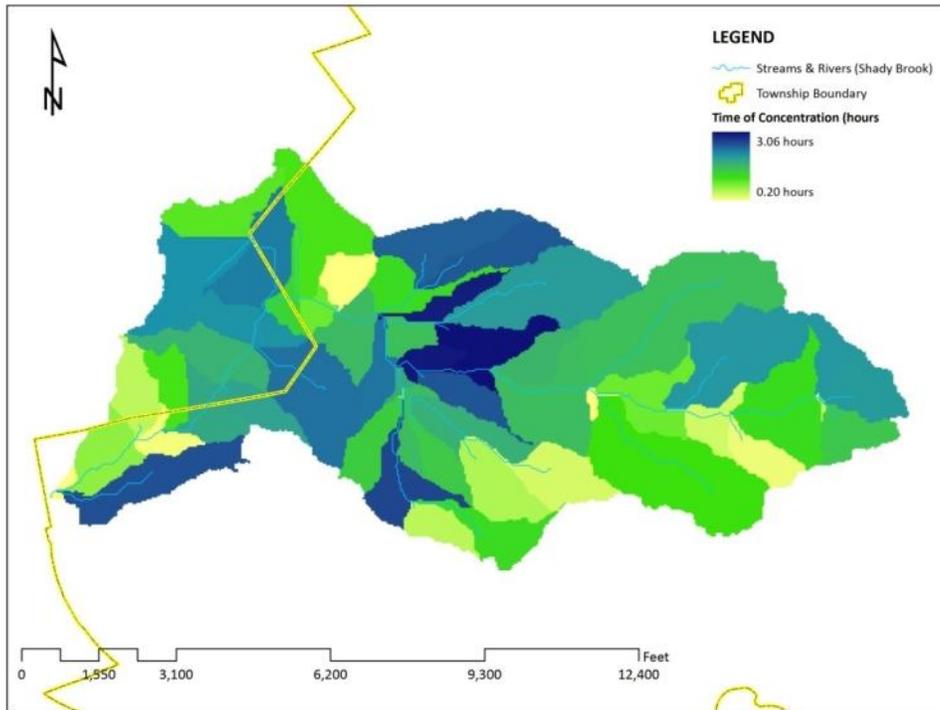
**Figure 39. Estimated time of concentration for Miry Run.**

Subbasins in Pond Run have times of concentration roughly ranging from 20 minutes to 5 hours (Figure 40). The north branch has higher times of concentration than the mainstem.



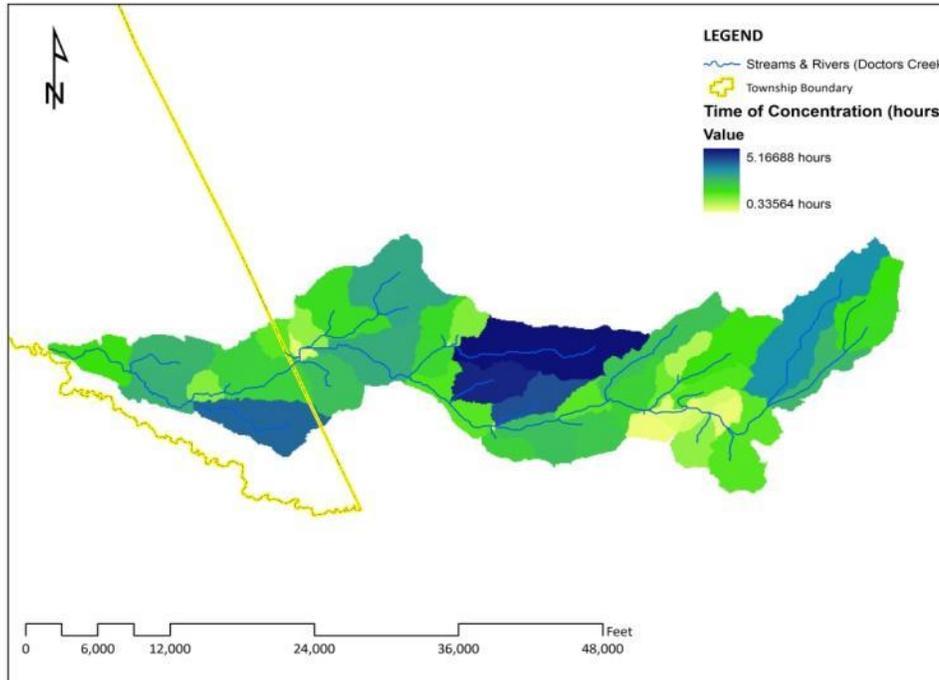
**Figure 40. Estimated time of concentration for Pond Run.**

Shady Brook's times of concentration range from about 10 minutes to 3 hours (Figure 41). Lower times of concentration are found at the outlet and the north western and south eastern parts of the watershed.



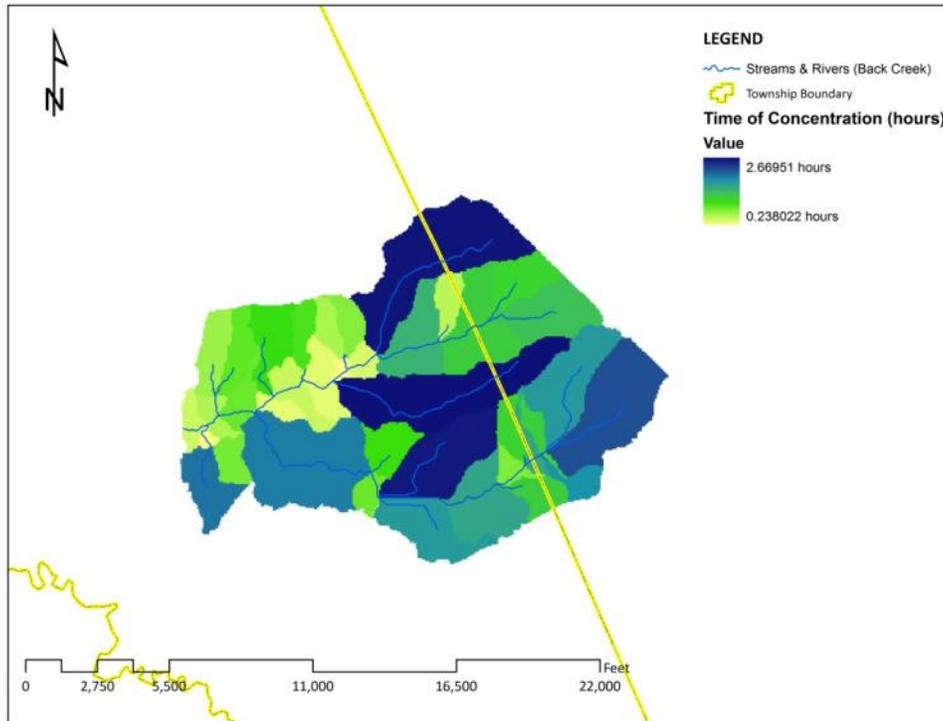
**Figure 41. Estimated time of concentrations for Shady Brook.**

Doctors Creek’s times of concentration range from about 20 minutes to 5 hours (Figure 42). Lower times of concentration are found near the center of the watershed.



**Figure 42. Estimated time of concentrations for Doctors Creek.**

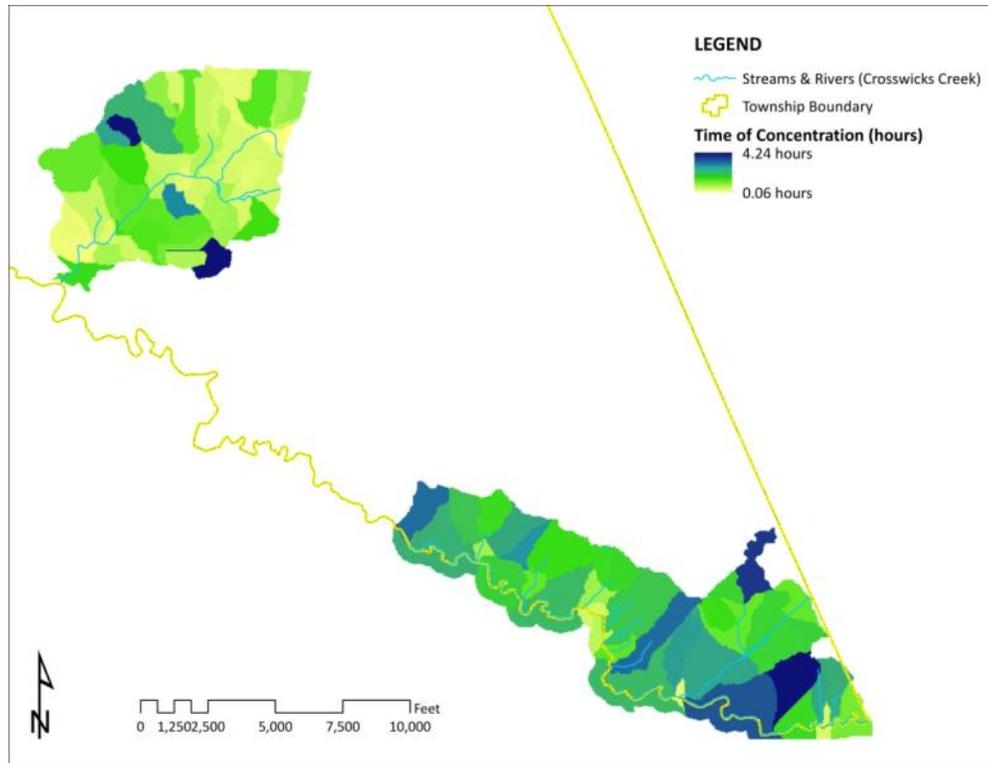
Back Creek's times of concentration range from about 14 minutes to about 2 hours and 40 minutes (Figure 43). The higher times of concentration occur near the north and south outskirts of the watershed.



**Figure 43. Estimated time of concentrations for Back Creek.**

The calculation of runoff for Assunpink Creek did not include times of concentration.

Crosswicks Creek's times of concentration range from about 3.5 minutes to about 4 hours and 15 minutes (Figure 44). The higher times of concentration occur in the northern of the two modeled watersheds where more of the urban lands are located (Figure 16).



**Figure 44. Estimated time of concentrations for Crosswicks Creek.**

## **Model Results**

Refer to Appendices XIV-XX for simulation results for the 2-, 10-, and 100-year storms for Miry Run, Pond Run, Shady Brook, Doctors Creek, Back Creek, Assunpink Creek and Crosswicks Creek. Values extracted from the model include drainage area, depth, baseflow, direct runoff, discharge, and peak discharge.

### **Definitions<sup>1</sup>**

**Baseflow** is “the sustained or fair weather flow in a channel due to subsurface runoff, usually composed largely of groundwater effluent.”

**Direct runoff** is “the runoff entering stream channels promptly after rainfall or snowmelt.”

**Discharge** is “the volume of water that passes through a given cross-section per unit time.”

**Drainage area** is “the area enclosed by a drainage divide measured in a horizontal plane.”

**Runoff** is “the part of precipitation that appears in surface streams.”

### **Model Calibration**

The models for Miry Run, Pond Run, and Shady were calibrated to the hydrologic models used in the Federal Emergency Management Agency (FEMA) 2010 Flood Insurance Study for the Township of Hamilton. The FEMA models for Miry Run and Pond Run were created using the SCS TR-20 method. These models were calibrated to USGS gage 01464000 at Trenton for storms including Hurricane Doria and the storm of July 20 and 21, 1975. Shady Brook was modeled using standard SCS techniques since no discharge data were available.

All models in this study were calibrated to the peak discharge values from FEMA by doubling the storage coefficient of each subbasin. Storage coefficient was chosen as the calibration factor because the original storage coefficient calculation was meant for small rural streams and also because of its high sensitivity. Results are shown in Table 4. Because Rutgers’ models do not yet include flood control measures at the time of this report, the FEMA model results were approximated to show unhindered stream flow. Calibration results were incorporated into the creation and execution of the Doctors Creek, Back Creek, Assunpink Creek, and Crosswicks Creek models.

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<sup>1</sup> USACOE HEC, 2000

**Table 4. Calibration results of HEC-HMS models with FEMA Flood Insurance Study data.**

Location	FEMA Cues	FEMA 2010 Model Peak Discharge (cfs)	FEMA 2010 Model Approximation (cfs)	Predicted Model Peak Discharge (cfs)	Calibrated Model (2x Storage Coefficient) (cfs)	% Difference from FEMA	% Difference from FEMA Approximation
<b>Miry Run (10 year)</b>							
W660	Upstream of confluence with Assunpink Creek	560.0	1,230.0	1,407.8	1,022.6	58.5%	18.4%
dam (W670)	Hutchinson Mill Dam						
W770	At Interstate 295	470.0	1,140.0	1,342.0	970.2	69.5%	16.1%
W840	At Hughes Drive	290.0	960.0	1,051.9	770.3	90.6%	21.9%
W840	Downstream of the dam in the Township of Hamilton	50.0	720.0	1,051.9	770.3	175.6%	6.8%
dam (W880)	Assunpink # 21 Dam						
W880	Upstream of the dam in the Township of Hamilton	670.0	670.0	959.5	703.7	4.9%	4.9%
W900	At the downstream corporate limit of the Township of Robbinsville	475.0	475.0	939.2	691.5	37.1%	37.1%
						<b>72.7%</b>	<b>17.5%</b>
<b>Miry Run (100 year)</b>							
W660	Upstream of confluence with Assunpink Creek	1,100.0	2,450.0	3,215.1	2,334.6	71.9%	4.8%
dam (W670)	Hutchinson Mill Dam						
W770	At Interstate 295	930.0	2,280.0	3,081.7	2,225.7	82.1%	2.4%
W840	At Hughes Drive	570.0	1,920.0	2,464.2	1,802.0	103.9%	6.3%
W840	Downstream of the dam in the Township of Hamilton	285.0	1,635.0	2,464.2	1,802.0	145.4%	9.7%
dam (W880)	Assunpink # 21 Dam						
W880	Upstream of the dam in the Township of Hamilton	1,350.0	1,350.0	2,262.0	1,659.2	20.6%	20.6%
W900	At the downstream corporate limit of the Township of Robbinsville	900.0	900.0	2,217.5	1,632.4	57.8%	57.8%
						<b>80.3%</b>	<b>16.9%</b>
<b>Pond Run (10 year)</b>							
W490	Upstream of confluence with Assunpink Creek	815.0	1,125.0	2,284.6	1,562.6	62.9%	32.6%
W550	Upstream of Greenwood Avenue	740.0	1,050.0	2,108.3	1,443.4	64.4%	31.6%

Location	FEMA Cues	FEMA 2010 Model Peak Discharge (cfs)	FEMA 2010 Model Approximation (cfs)	Predicted Model Peak Discharge (cfs)	Calibrated Model (2x Storage Coefficient) (cfs)	% Difference from FEMA	% Difference from FEMA Approximation
W610	Downstream of the confluence of North Branch Pond Run	640.0	950.0	2,042.2	1,399.9	74.5%	38.3%
W630	Upstream of the confluence of North Branch Pond Run	510.0	820.0	1,385.3	918.6	57.2%	11.3%
W840	At Whitehorse-Mercerville Road	420.0	730.0	793.1	530.4	23.2%	31.7%
dam (W820)	Assunpink # 8 Dam						
W870	At Veterans County Park Dam	310.0	310.0	584.2	390.5	23.0%	23.0%
						<b>50.9%</b>	<b>28.1%</b>
<b>Pond Run (100 year)</b>							
W490	Upstream of confluence with Assunpink Creek	1,490.0	2,055.0	4,464.1	3,052.8	68.8%	39.1%
W550	Upstream of Greenwood Avenue	1,345.0	1,910.0	4,137.9	2,831.8	71.2%	38.9%
W610	Downstream of the confluence of North Branch Pond Run	1,160.0	1,725.0	4,021.7	2,747.3	81.2%	45.7%
W630	Upstream of the confluence of North Branch Pond Run	930.0	1,495.0	2,779.5	1,846.3	66.0%	21.0%
W840	At Whitehorse-Mercerville Road	765.0	1,330.0	1,628.7	1,091.8	35.2%	19.7%
dam (W820)	Assunpink # 8 Dam						
W870	At Veterans County Park Dam	565.0	565.0	1,184.2	792.9	33.6%	33.6%
						<b>59.3%</b>	<b>33.0%</b>
<b>Shady Brook (10 year)</b>							
W1080	At downstream limit of detailed study	330.0	630.0	948.1	632.7	62.9%	0.4%
W720	Upstream of Lily Street	150.0	450.0	573.7	383.0	87.4%	16.1%
W840	Upstream of East Park Avenue	60.0	360.0	393.1	265.7	126.3%	30.1%
dam (W840)	Stormwater Diversion Dam						
W840	Upstream of diversion structure	300.0	300.0	393.1	265.7	12.1%	12.1%
						<b>72.2%</b>	<b>14.7%</b>
<b>Shady Brook (100 year)</b>							
W1080	At downstream limit of detailed study	560.0	1,110.0	1,760.5	1175.6	70.9%	5.7%

Location	FEMA Cues	FEMA 2010 Model Peak Discharge (cfs)	FEMA 2010 Model Approximation (cfs)	Predicted Model Peak Discharge (cfs)	Calibrated Model (2x Storage Coefficient) (cfs)	% Difference from FEMA	% Difference from FEMA Approximation
W720	Upstream of Lily Street	235.0	785.0	1,082.4	725.5	102.1%	7.9%
W840	Upstream of East Park Avenue	70.0	620.0	760.9	515.1	152.1%	18.5%
dam (W840)	Stormwater Diversion Dam						
W840	Upstream of diversion structure	550.0	550.0	760.9	515.1	6.6%	6.6%
						<b>82.9%</b>	<b>9.7%</b>

## Prioritization

The goal of this study is to identify the most critical subbasins in terms of flooding potential and prioritize them. To determine which subbasins best qualify for flood reduction projects, the subbasins are ranked by priority. For this purpose, priority is based on two factors: direct runoff and drainage area. The normalized direct runoff value (direct runoff by unit area) defines the subbasin's flooding potential. Drainage area affects the practicality of working on a subbasin. Implementation projects to reduce runoff will have the most benefit for their cost if larger subbasins are controlled.

## Miry Run Analysis

In Miry Run, the five subbasins with the greatest normalized direct runoff for all storm events are W1270, W740, W1070, W1140 and W720. Of these subbasins, only W1140 falls in the top 10 largest subbasins. The priority of each subbasin is analyzed based on its normalized direct runoff and size.

Subbasins W660 and W740 have high normalized direct runoffs (0.091 and 0.100 acre-ft/acre for the 2-year storm), but because they are two of the smallest subbasins in Miry Run, they do not qualify as critical subbasins. W720, W1270 and W1020 also have low priority due to size. Subbasin W1140 is the most critical subbasin because of its large normalized direct runoff as well as its size. Because W760 is so large, it is the second most critical subbasin despite its normalized direct runoff being lower than several other subbasins. The third most critical subbasin of Miry Run is W1070. Sizes and runoffs for critical subbasins are shown in Table 5.

**Table 5. Miry Run priority subbasins.**

Critical Subbasin	Drainage Area (acres)	2-year Runoff Volume (acre-ft)	2-year Normalized Direct Runoff (acre-ft/acre)	10-year Runoff Volume (acre-ft)	10-year Normalized Direct Runoff (acre-ft/acre)	100-year Runoff Volume (acre-ft)	100-year Normalized Direct Runoff (acre-ft/acre)
W1140	188.3	22.5	0.116	42.7	0.217	88.6	0.445
W760	222.9	22.8	0.102	42.5	0.191	87.6	0.393
W1070	154.3	20.7	0.134	36.0	0.233	69.5	0.450

### Pond Run Analysis

Pond Run has a clear-cut priority determination because many subbasins with the largest normalized direct runoffs also have the largest drainage areas. The five subbasins with the greatest normalized direct runoff for all storm events are W650, W590, W500, W800 and W670. These subbasins are all within the 15 largest. Therefore, all five subbasins with the largest normalized direct runoffs are critical subbasins. The most critical is W590 because of its size (529.2 acres) and large normalized direct runoff (0.176 acre-ft/acre for the 2-year storm). The prioritization of other flood-prone subbasins is based on size order: W670, W800, W500 and W650. Other subbasins to consider are W600, W570 and W490. Sizes and runoffs for critical subbasins are shown in Table 6.

**Table 6. Pond Run priority subbasins.**

Critical Subbasin	Drainage Area (acres)	2-year Runoff Volume (acre-ft)	2-year Normalized Direct Runoff (acre-ft/acre)	10-year Runoff Volume (acre-ft)	10-year Normalized Direct Runoff (acre-ft/acre)	100-year Runoff Volume (acre-ft)	100-year Normalized Direct Runoff (acre-ft/acre)
W590	529.2	93.5	0.176	158.1	0.296	291.4	0.545
W670	272.7	45.2	0.165	77.6	0.283	144.7	0.528
W800	254.7	42.2	0.166	71.4	0.280	132.1	0.518
W500	160.4	27.1	0.169	45.2	0.282	82.7	0.516
W650	155.7	27.3	0.175	45.7	0.294	82.9	0.532

## Shady Brook Analysis

The priority determination for Shady Brook is indistinct because the largest subbasins have only moderate direct runoffs. The five subbasins with the greatest normalized direct runoff for all storm events are W740, W1100, W570, W650 and W1010. Of these subbasins, only W740 falls in the top 15 largest subbasins.

Subbasin W740 is Shady Brook's most critical subbasin because it has the largest normalized direct runoff (0.253 acre-ft/acre for the 2-year storm) while still being in the top 15 largest subbasins. Even though W570 and W1100 are only mid-size subbasins, their high normalized direct runoffs (0.234 and 0.227 acre-ft/acre for the 2-year storm) qualify them as being critical. Subbasin W1060 is the fourth critical subbasin found in Shady Brook. Because of their sizes, W1050 and W630 were added despite their comparatively smaller normalized runoffs. Sizes and runoffs for critical subbasins are shown in Table 7.

**Table 7. Shady Brook priority subbasins.**

<b>Critical Subbasin</b>	<b>Drainage Area (acres)</b>	<b>2-year Runoff Volume (acre-ft)</b>	<b>2-year Normalized Direct Runoff (acre-ft/acre)</b>	<b>10-year Runoff Volume (acre-ft)</b>	<b>10-year Normalized Direct Runoff (acre-ft/acre)</b>	<b>100-year Runoff Volume (acre-ft)</b>	<b>100-year Normalized Direct Runoff (acre-ft/acre)</b>
W740	43.0	12.4	0.253	19.3	0.393	32.6	0.665
W570	34.6	9.0	0.234	14.2	0.373	24.5	0.642
W1100	32.2	7.3	0.227	11.4	0.354	19.4	0.602
W1060	41.7	9.1	0.216	14.6	0.348	25.5	0.607
W1050	120.3	21.3	0.173	36.7	0.296	68.5	0.549
W630	90.8	15.0	0.165	25.2	0.278	46.1	0.508

## Doctors Creek Analysis

Doctors Creek was relatively difficult to prioritize because the subbasins with the largest drainage areas only have moderately high normalized direct runoff. The seven subbasins with the greatest normalized direct runoff for all storm events are W500, W720, W540, W680, W690, W580, and W790.

Subbasin W500 is Doctors Creek most critical subbasin because it has the largest normalized direct runoff (0.1402 acre-ft/acre for the 2 year storm). Furthermore, it has one of the largest drainage areas and, thus, one of the largest subbasins in Doctors Creek. W720, W540, W680, and W790 also have large drainage areas and moderately high normalized direct runoff. W690 and W580 have relatively small drainage areas, but were included because of their proximity to Hamilton Township and their higher normalized direct runoff. Sizes and runoffs for critical subbasins are shown in Table 8.

**Table 8. Doctors Creek priority subbasins.**

<b>Critical Subbasin</b>	<b>Drainage Area (acres)</b>	<b>2-year Runoff Volume (acre-ft)</b>	<b>2-year Normalized Direct Runoff (acre-ft/acre)</b>	<b>10-year Runoff Volume (acre-ft)</b>	<b>10-year Normalized Direct Runoff (acre-ft/acre)</b>	<b>100-year Runoff Volume (acre-ft)</b>	<b>100-year Normalized Direct Runoff (acre-ft/acre)</b>
W500	563.6	79	0.1402	147.3	0.2614	296.7	0.5264
W720	454.2	60.6	0.1334	117.4	0.2585	244.6	0.5385
W540	387.8	48.8	0.1258	101.9	0.2627	220.5	0.5685
W680	436.7	53.8	0.1232	108.4	0.2482	229.5	0.5255
W690	181.7	22.2	0.1222	47.7	0.2625	106.1	0.5839
W580	194.2	21.8	0.1122	48	0.2471	107.9	0.5556
W790	258.8	26.8	0.1036	59.4	0.2295	136	0.5256

### **Back Creek Analysis**

Back Creek was relatively clear-cut for determining critical subbasins based on high normalized direct runoff. However, the drainage areas for Back Creek were all relatively small. The eight subbasins with the greatest normalized direct runoff are W540, W560, W520, W570, W590, W600, W460, and W580.

Subbasin W540 is the most critical subbasin in Back Creek because it has the largest normalized direct runoff (0.3026 acre-ft/acre). However, it has a relatively small drainage area. The rest of the subbasins within Back Creek follow suit. Therefore, Back Creek is not a critical area within the Hamilton Township, but does have areas of priority within the watershed, namely W540, W560, and W590. Sizes and runoffs for critical subbasins are shown in Table 9.

**Table 9. Back Creek priority subbasins.**

<b>Critical Subbasin</b>	<b>Drainage Area (acres)</b>	<b>2-year Runoff Volume (acre-ft)</b>	<b>2-year Normalized Direct Runoff (acre-ft/acre)</b>	<b>10-year Runoff Volume (acre-ft)</b>	<b>10-year Normalized Direct Runoff (acre-ft/acre)</b>	<b>100-year Runoff Volume (acre-ft)</b>	<b>100-year Normalized Direct Runoff (acre-ft/acre)</b>
W540	75.01	22.7	0.3026	37.8	0.5039	68	0.9065
W560	66.68	17.7	0.2654	30.5	0.4574	56.6	0.8488
W520	5.291	1.4	0.2646	2.4	0.4536	4.3	0.8127
W570	6.231	1.6	0.2568	3	0.4815	5.8	0.9309
W590	72.37	18.1	0.2501	29.7	0.4104	53	0.7323
W600	63.77	15.3	0.2399	27.2	0.4266	51.5	0.8076
W460	46.14	10.3	0.2232	17	0.3685	30.5	0.6611
W580	44.31	9.8	0.2212	18.6	0.4198	37.2	0.8396

### **Assunpink Creek Analysis**

Analysis of runoff from Assunpink Creek was performed differently than the other watersheds located within Hamilton Township. Since only a small portion of the Assunpink Creek Watershed is located within the municipal boundary (Figure 3) and Hamilton has control over the portion within that boundary, the runoff generated from only that portion was calculated. The Army Corps of Engineers has performed extensive modeling of the entire Assunpink Creek Watershed as part of its efforts to control and reduce flooding<sup>1</sup>.

The curve number was calculated for the land uses within the modeled area (Figure 37). Each land use was then assigned a runoff coefficient based upon the land use and the resulting curve number (Appendix XIX). The runoff coefficient represents the proportion of rainfall that becomes runoff based upon land usage and the curve number. The land use area was multiplied by this runoff coefficient and the three modeled storms (2-year, 10-year, and 100-year) to determine the amount of runoff generated. Examples of the runoff coefficients used in the calculations are shown in Table 10.

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<sup>1</sup>USACOE 2007

Priority basins have not been established for the Assunpink Creek watershed, but many of the areas with the highest runoff volumes are identified urban land uses and should be targeted with many of the recommended management measures.

**Table 10. Example runoff coefficients used in Assunpink Creek calculations.**

Land Use	Min. Coefficient	Max. Coefficient	Approximate CN Range	Percent Impervious
<b>Construction Sites, &lt;30% Slope</b>				
Bare packed soil, smooth	0.30	0.60	60-99	0
Bare packed soil, rough	0.20	0.50	66-77	0
<b>Residential</b>				
1 Acre Lots	0.15	0.40	68-79	20
½ Acre Lots	0.25	0.50	70-80	25
¼ Acre Lots	0.40	0.60	75-83	36
Multiunits (attached)	0.60	0.75	85-90	65
<b>Industrial Area</b>				
Light to Medium Density	0.50	0.80	88-91	70
High Density	0.60	0.95	92-94	70

## Crosswicks Creek Analysis

Crosswicks Creek was relatively clear-cut for determining critical subbasins based on high normalized direct runoff. The subbasins in Crosswicks Creek were all relatively small. The six subbasins with the greatest normalized direct runoff are W1080, W600, W1050, W480L, W520L, and W530L. Note the ‘L’ designation is for those subbasins located within the lower portion of Crosswicks Creek that was modeled.

Subbasin W1080 is the most critical subbasin in Crosswicks Creek due to it having the largest normalized direct runoff (0.157 acre-ft/acre). Even though subbasin W480L had larger normalized direct runoff (4.348 acre-feet/acre), it has a very small drainage area and consists of mostly wetland area (Table 11). The Crosswicks Creek priority areas are the three subbasins located within the upper watershed: W1080, W600, and W1050. These subbasins are composed of mostly urban land uses which are conducive to the many of the management measures outlined in the next report section. Sizes and runoffs for critical subbasins are shown in Table 11.

**Table 11. Crosswicks Creek priority subbasins.**

<b>Critical Subbasin</b>	<b>Drainage Area (acres)</b>	<b>2-year Runoff Volume (acre-ft)</b>	<b>2-year Normalized Direct Runoff (acre-ft/acre)</b>	<b>10-year Runoff Volume (acre-ft)</b>	<b>10-year Normalized Direct Runoff (acre-ft/acre)</b>	<b>100-year Runoff Volume (acre-ft)</b>	<b>100-year Normalized Direct Runoff (acre-ft/acre)</b>
W1080	19.11	3.0	0.157	4.7	0.246	8.4	0.440
W600	26.01	2.6	0.100	4.6	0.177	9.5	0.365
W1050	18.37	1.8	0.098	3.0	0.163	5.8	0.316
W480L	1.98	8.6	4.348	21.4	10.82	53.3	26.95
W520L	17.85	0.1	0.006	0.2	0.011	0.400	0.022
W530L	17.48	0.10	0.006	0.2	0.011	0.400	0.023

## **Recommended Management Measures**

The *Hamilton Township (Mercer County) Hydrologic Model Report* was developed to identify priority areas and programs designed to reduce flooding in various areas of the municipality. Implementation of the suggested projects listed below will aid in achieving the goals set up by Hamilton Township to help guide future development and land preservation decisions, target specific areas for flood control projects or stormwater infrastructure upgrades, and manage emergency efforts during a flood event.

The primary cause of many of the water resources problems is simple; there are too many impervious surfaces that drain directly to local waterways. We need to intercept stormwater runoff from going directly to local waterways by capturing and treating it, then infiltrating it, reusing it, or letting it out slowly, all in a cost-effective manner. By “disconnecting” these impervious surfaces from flowing directly into the local waterways, we can reduce flooding and improve the quality of New Jersey's water resources. Many of the projects discussed herein aim to disconnect impervious cover and improve stakeholder knowledge on the importance of stormwater management.

The RCE Water Resources Program recommends disconnecting impervious cover within the critical subbasins. In developed areas, stormwater runoff from parking lots, driveways, sidewalks, and rooftops flows to drainage pipes that discharge to the sewer system, then directly to the streams of Hamilton Township. The cumulative effect of these impervious surfaces and

thousands of connected downspouts reduces the amount of water that infiltrates into soils and greatly increases the volume and rate of runoff that flows to waterways. Disconnection is the process of diverting the first flush of stormwater runoff from impervious areas to: 1) pervious areas so it has an opportunity to infiltrate or 2) smaller distributed best management practices (BMPs) for stormwater control. By redirecting runoff from paving and rooftops to pervious areas in the landscape or these best management practices, the amount of directly connected impervious area in a drainage area can be greatly reduced.

The practice of disconnection also is referred to as implementing "Source Controls" or "controlling stormwater at the source." This is quite different than past stormwater management strategies that divert all the stormwater runoff to a centralized location such as a detention basin. These source control practices can be easily incorporated into existing landscapes and can have a high aesthetic value as well as a stormwater treatment benefit.

For disconnection to be safe and effective, runoff must flow onto a pervious surface as sheet flow or into a BMP without causing excessive erosion. Care needs to be taken so that stormwater does not flow toward building foundations or onto adjacent property. Typical receiving areas for disconnected runoff include lawns, landscaping, infiltration beds, gardens, and other BMPs. Soil amendments can be used to increase soil permeability if necessary. However, site constraints such as small or non-existent lawns may dictate that runoff be directed into a rain garden or another type of infiltration practice.

Volume reductions occur through infiltration and evapotranspiration in the receiving area. The potential exists for disconnected stormwater runoff to be completely taken "out of the system" by spreading out and infiltrating over pervious surfaces and BMPs. Stormwater that eventually flows onto an impervious surface and then into the storm sewer should at a minimum be initially detained by flowing over rough, pervious surfaces such as grass.

Disconnection decreases the peak discharge by reducing the volume of runoff that enters the sewer and by increasing the discharge time over which it enters. Also, paving and roofs are inherently distributed over a drainage area. Connected systems concentrate and centralize runoff, causing peak discharges from individual properties to accumulate in a relatively small number of

manmade conveyances. By contrast, individual on-lot disconnection helps to keep separate the peak discharge from each individual property.

Stormwater runoff contains deposited atmospheric pollutants, debris, petroleum hydrocarbons, sediment, particles of roofing material, nutrients, and wildlife droppings. The concentrations of these pollutants are reduced as stormwater infiltrates and is broken down into soils and is taken up into plant roots through a distributed and disconnected stormwater management approach.

All proposed recommendations described below will function to decrease stormwater flows, increase infiltration, and ultimately reduce runoff volume in the modeled watersheds and their tributaries.

### ***Depaving***

One method to reduce impervious cover is to "depave." Depaving is the act of removing paved impervious surfaces and replacing them with pervious soil and vegetation that will allow for infiltration of rainwater. Depaving leads to the re-creation of natural space that will help reduce flooding, increase wildlife habitat, and positively enhance water quality as well as beautify neighborhoods. Depaving also can bring communities together around a shared vision to work together to reconnect their neighborhood to the environment and nature.

### ***Permeable Pavement***

If the impervious surface cannot be eliminated, maybe it can be changed into a pervious surface by replacing it with permeable pavement. Reduction of impervious surfaces with the installation of permeable or pervious surfaces is another BMP that can help reduce stormwater flow, increase groundwater recharge, and improve water quality. Pervious concrete, porous asphalt, or even interlocking concrete blocks with soil and grass growing within the voids can be used to replace impervious pavement. These surfaces allow water to pass through the land surface into an underlying reservoir (stones or gravel) that provides temporary runoff storage until infiltration to the subsurface soils can occur. Primary applications for these surfaces are low traffic or parking areas that do not see a high volume of vehicular traffic but have significant areas of impervious surfaces.

### ***Simple Disconnection***

If an impervious surface cannot be eliminated or replaced with pervious materials, it should be disconnected from draining directly to a sewer system or a local waterway. Many structures have downspouts piped under their front lawn to the gutter in the roadway. This water travels down the gutter into a catch basin and is piped directly to the local waterway. Simply disconnecting this downspout and allowing it to drain onto the lawn is an easy method to reduce the flashy hydrology of the local streams, promote groundwater recharge and improve water quality. When discharging stormwater runoff onto a pervious surface, great care needs to be taken to ensure that the water passes onto the surface as sheet flow. As rain water moves across a parking lot, it travels as a sheet of water about one inch thick. When this sheet of water hits a 2 to 3 inch tall grassed areas, the water is slowed down, filtered and allowed to infiltrate. This is simple disconnection.

### ***Rain Barrels***

One tool to encourage homeowner to disconnect a downspout is offering them a rain barrel. While rain barrels come in all sizes, the act of disconnecting a downspout from draining directly to the road and diverting this water into a rain barrel provides several environmental benefits. The rain barrel serves as a stormwater management tool, storing water that would normally go to the local waterway. The rain barrel also is a water conservation tool; most people use the water from their rain barrel to water their gardens instead of using potable water. The bigger function of the rain barrel is that it encourages the homeowner to disconnect a piece of their rooftop. The barrel will quickly become filled during the storm event but the overflow from the barrel is often diverted to a pervious area. This disconnects the entire section of the rooftop from going directly to the stream.

Considering that a vast majority of the priority subbasins in Hamilton Township are occupied by residential properties (Figure 19), there is a large surface area of roofs that contribute to impervious surface runoff. While many gutter systems drain to lawns where infiltration can occur, a significant portion of typical drainage systems drain gutter runoff directly to street sewer systems. These are prime areas for rain barrel programs. Harvesting rain water will have many benefits to the residents in these areas including saving water, saving money on utility bills, and preventing flooding of basements. By collecting rain water, homeowners are also helping to

reduce flooding and pollution in local waterways. With education and implementation, it could become part of an overall approach for homeowner action.

### ***Rain Gardens***

An inexpensive but highly effective landscaped system for disconnection is a rain garden. Designating areas within the watershed for increased stormwater infiltration is one method to reduce stormwater flow and does not require setting aside large tracts of land for construction. The general theory is to provide portions of the landscape where stormwater typically flows overland and changing the nature of the surface such that some of the stormwater volume is allowed to infiltrate into the ground. This requires permeable soils that allow stormwater to quickly seep into the soils before becoming saturated to the point of inefficiency. This recommendation is different from a detention/retention basin as it could spread the load of stormwater control over a large number of smaller infiltration areas, including individually-owned properties in the form of rain gardens or infiltration strips. As discussed earlier, controlling stormwater at the source can be much more effective than constructing large stormwater basins.

Rain gardens can be a simple and easily implemented BMP for private land owners and could also be employed on property right-of-ways where stormwater overland flow occurs. A rain garden is a landscaped, shallow depression designed to capture, treat, and infiltrate stormwater at the source before it reaches a stormwater infrastructure system or a stream. Plants used in the rain garden help to slow down stormwater flows and retain pollutants that could otherwise degrade nearby waterways. Rain gardens are becoming popular in many suburban and urban areas. These systems not only improve water quality, but also help homeowners minimize the need for watering and applying fertilizer to large turf grass areas as well as promote groundwater recharge. If designed properly, these systems improve the aesthetics of neighborhoods through the use of flowering native plants and attractive trees and shrubs.

A typical rain garden is designed to capture, treat, and infiltrate the water quality design storm of 1.25 inches of rain from a 1,000 square foot impervious area from an individual lot (i.e., a 25 foot by 40 foot roof for a house or a 20 foot wide by 50 foot long driveway). By collecting runoff generated by the first 1.25 inches of rainfall, the rain garden prevents the “first flush” of

runoff from entering the stream, which characteristically has the highest concentration of contaminants. For the water quality design storm of 1.25 inches of rainfall, the rain garden needs to be 10 feet by 20 feet and six inches deep. Since 90% of all rainfall events are less than one inch, rain gardens are able to treat and recharge the majority of runoff from these storms. If designed correctly, rain gardens reduce stormwater runoff volumes and reduce the flashy hydrology of local streams. This reduction of flashy hydrology will minimize stream bank erosion and stream bed scour, thereby reducing pollutant loads to nearby waterways.

The RCE Water Resources Program has been designing rain gardens to control the two-year design storm, 3.3 inches of rainfall over 24 hours. While this typically results in a slightly larger or deeper rain garden, it rarely adds a significant increase in the cost. The benefits of designing to a larger storm is that the rain garden will be climate change resilient, increasing the life of the garden. As the climate continues to change in our region, more intense storms are expected. The rain gardens that are designed to manage the two-year design storm will be able to handle these more intense storm events.

Rain gardens can be installed almost anywhere. Ideally the best installation sites are those where the soils are well-drained so that an underdrain system is not required. However, any diversion of runoff and filtration through native vegetation in the watershed would help reduce pollutant loading to the stream.

### ***Green Streets***

Roadways cover a significant percentage of land in most urban communities, and thus offer a unique opportunity for stormwater management. Green streets can be a combination of eliminating pavement, replacing pavement with pervious surfaces, and disconnecting pavement. It often can include combinations of features such as vegetated curb extensions, flow-through planter boxes, and pervious paving to reduce stormwater flow and improve water quality.

A curb extension is an angled narrowing of a roadway with a concurrent widening of the sidewalk space. Rain gardens can be incorporated into these extensions to capture stormwater flow from streets. Flow-through planter boxes are long, narrow landscaped areas with vertical walls and flat bottoms open to the underlying soil. They allow for increased stormwater storage volume in minimal space. The plants and topsoil within the boxes contribute to stormwater

filtering and treatment for improved water quality. Planters can also be designed to incorporate street trees.

## **Conclusion**

Implementation plans to disconnect impervious surfaces should be focused on the critical flooding areas in each watershed. By disconnecting impervious cover, stormwater runoff will be detained or infiltrated, which reduces the rate and volume of runoff as well as improving local water quality.

Although Shady Brook and Back Creek are smaller in size compared to Pond Run, Miry Run, and Doctors Creek, they should be the first priority for any flood reduction implementation projects. Land surrounding both Shady Brook and Back Creek is overwhelmingly urban with a high percentage of impervious cover. Model results for both watersheds confirm land usage by showing normalized direct runoffs more than double that of Miry Run's and Doctor Creeks most critical subbasins.

Subbasin priority is well-defined for Pond Run, making it the third priority for flood prevention measures. The subbasins with the largest normalized direct runoffs also have the largest drainage areas in the watershed. Implementation projects will show greater benefit for their cost since a larger area will be influenced.

Miry Run, Doctors Creek, Assunpink Creek and Crosswicks Creek have distinct urban areas that may experience flooding; however, Miry Run and Doctors Creek have the most pervious cover of the five watersheds and therefore the lowest normalized direct runoffs. Both Assunpink and Crosswicks Creeks only had their portions contained within Hamilton Township modeled, and model results should be used with caution. Miry Run and Doctors Creek watersheds are prioritized last of all the watersheds modeled. While these areas could benefit from stormwater management practices, Shady Brook and Back Creek, both very urbanized watersheds, carry higher priority due to their high normalized direct runoff. Furthermore, the types of recommended management practices discussed in this report are more applicable to these urban watersheds.

## **Next Steps**

Looking forward, plans should focus on in-depth modeling of the priority subbasins described in this report. WinSLAMM (Source Loading and Management Models for Windows) is a modeling software used to identify sources of urban stormwater pollutants and to evaluate the efficiency of control practices, such as disconnection. WinSLAMM, unlike other models, is based on actual field data<sup>1</sup>. WinSLAMM modeling of priority subbasins will help identify pollution sources, and different stormwater management practices can be modeled to evaluate their effectiveness.

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<sup>1</sup> Agriculture and Environment Center (Penn State Extension), 2013

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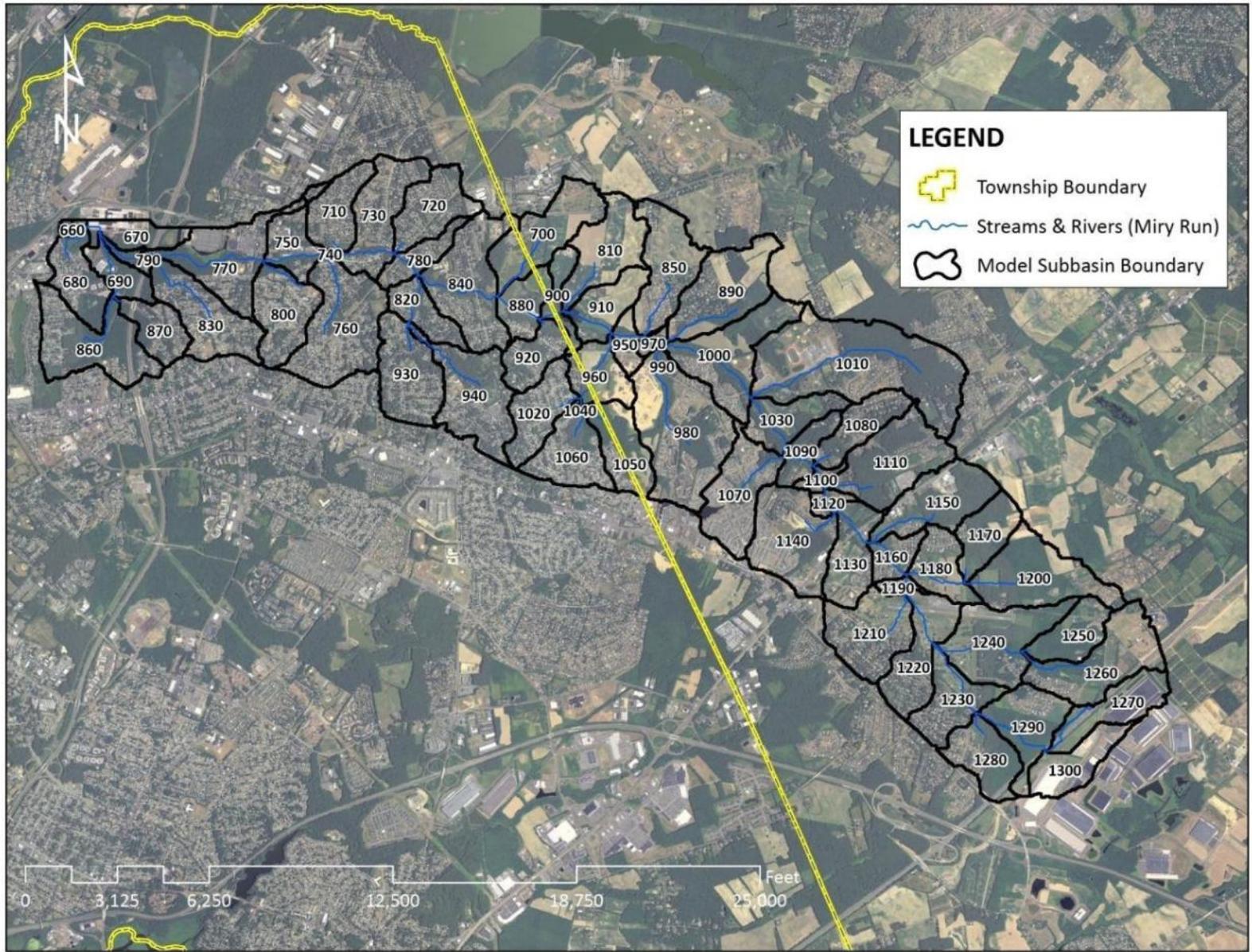
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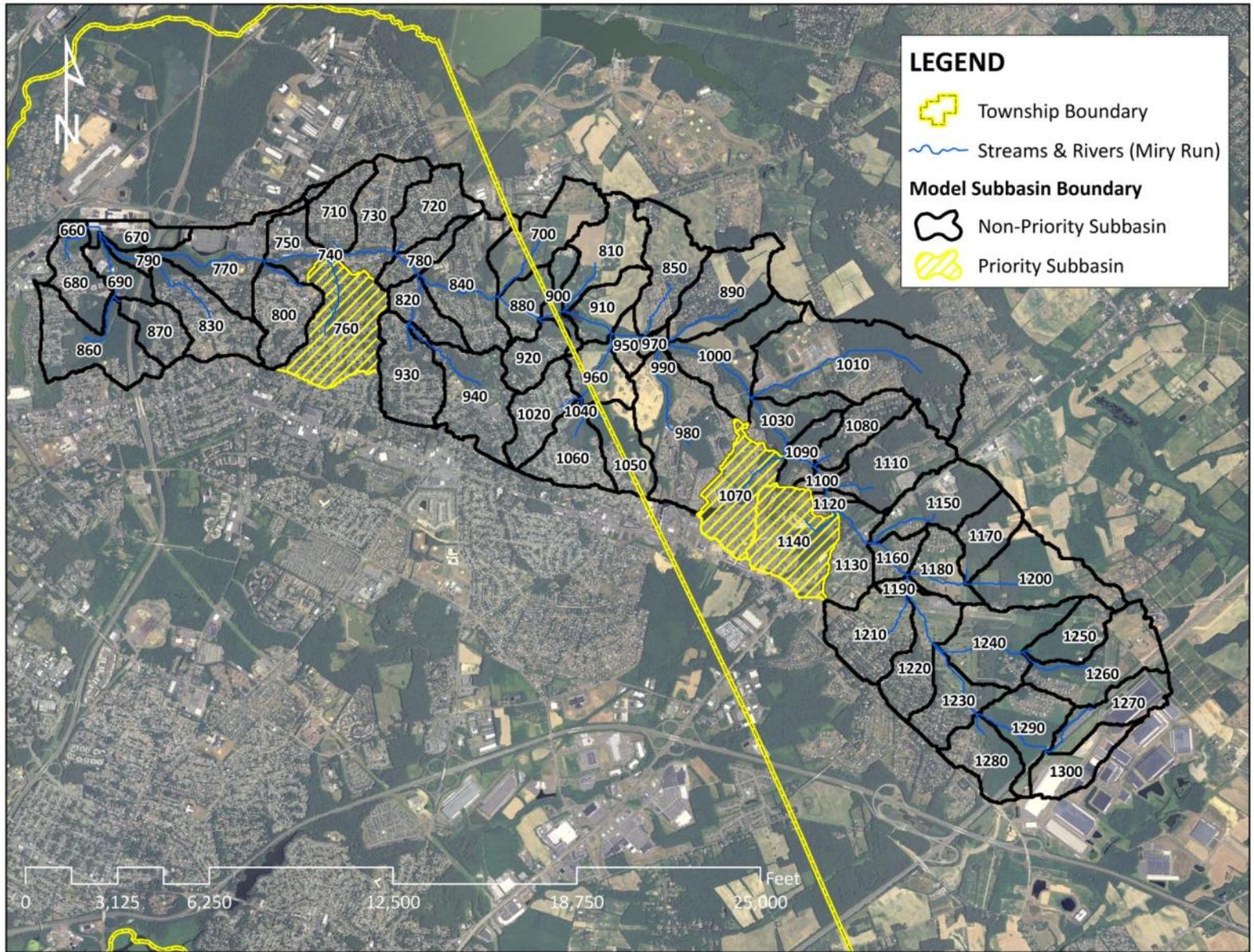
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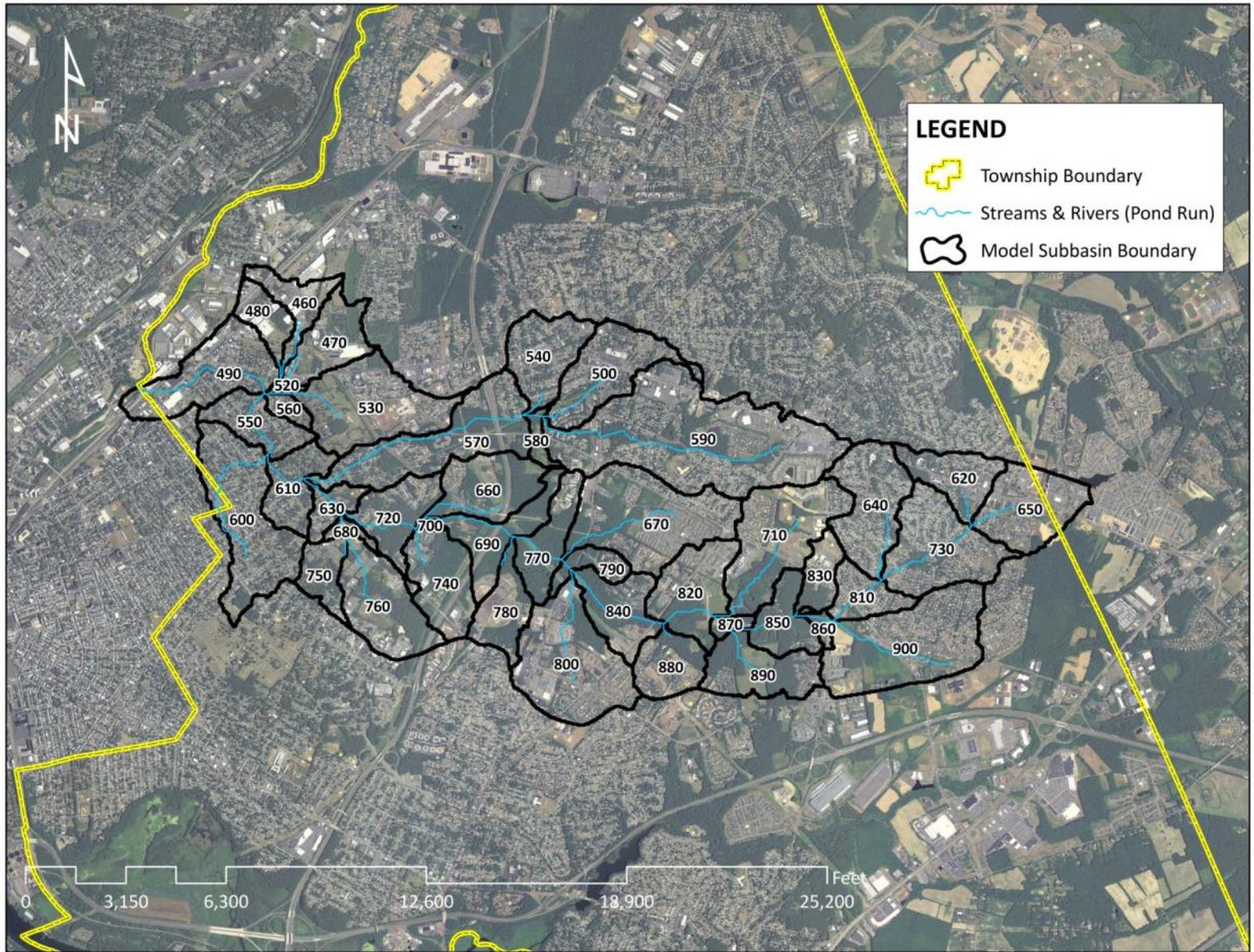
## **Appendix I. Miry Run Subbasin Delineation**



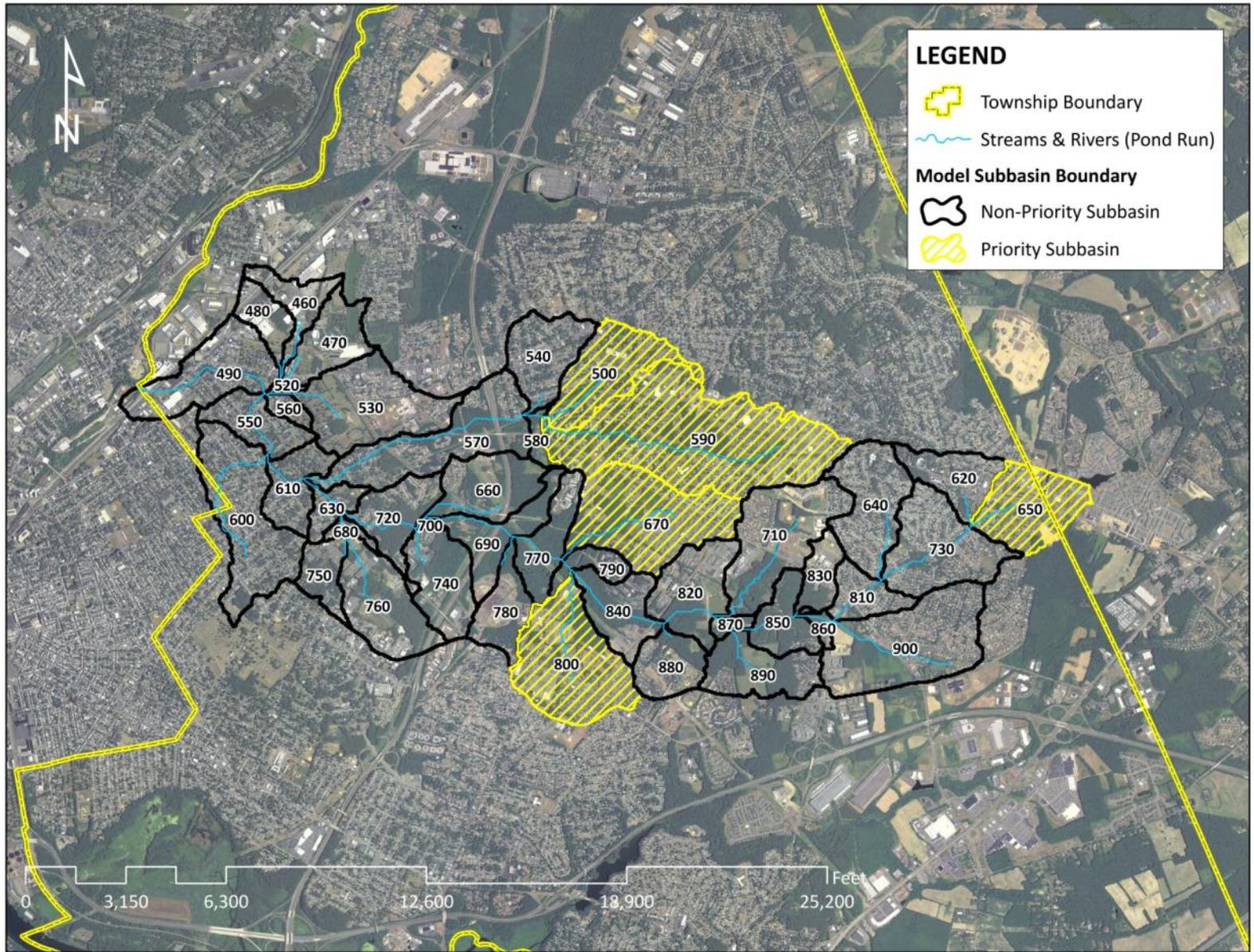
## **Appendix II. Miry Run Priority Subbasins**



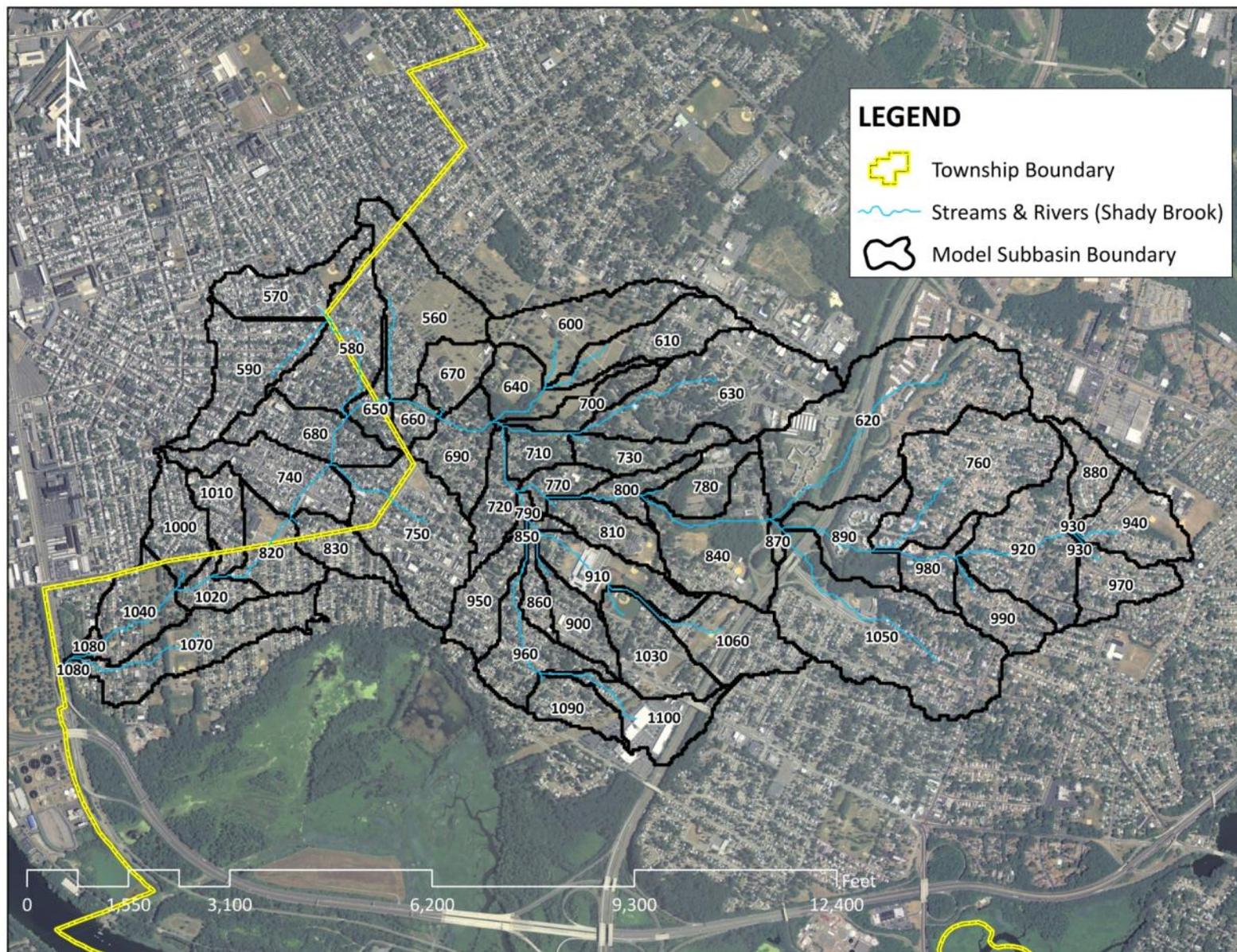
## **Appendix III. Pond Run Subbasin Delineation**



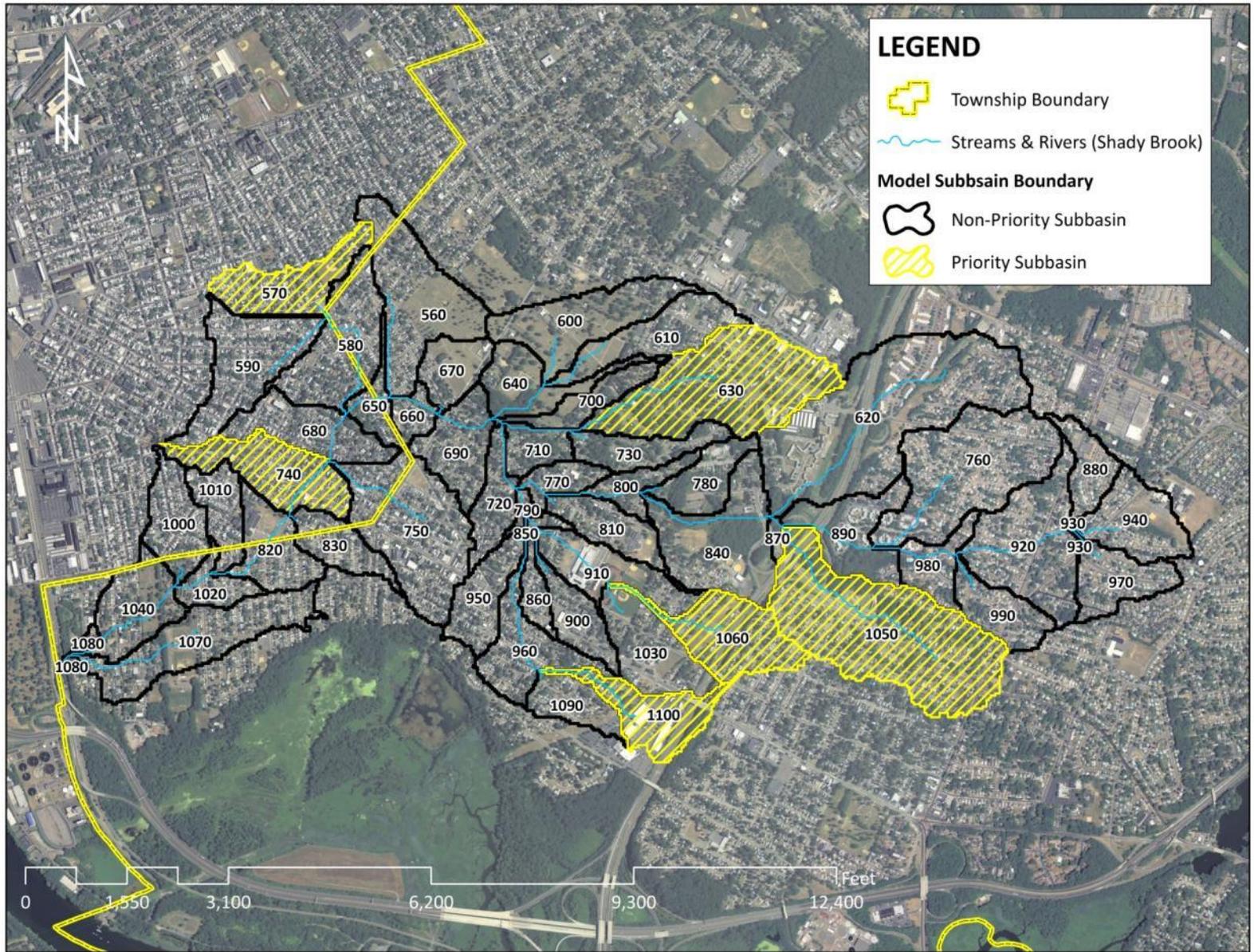
## **Appendix IV. Pond Run Priority Subbasins**



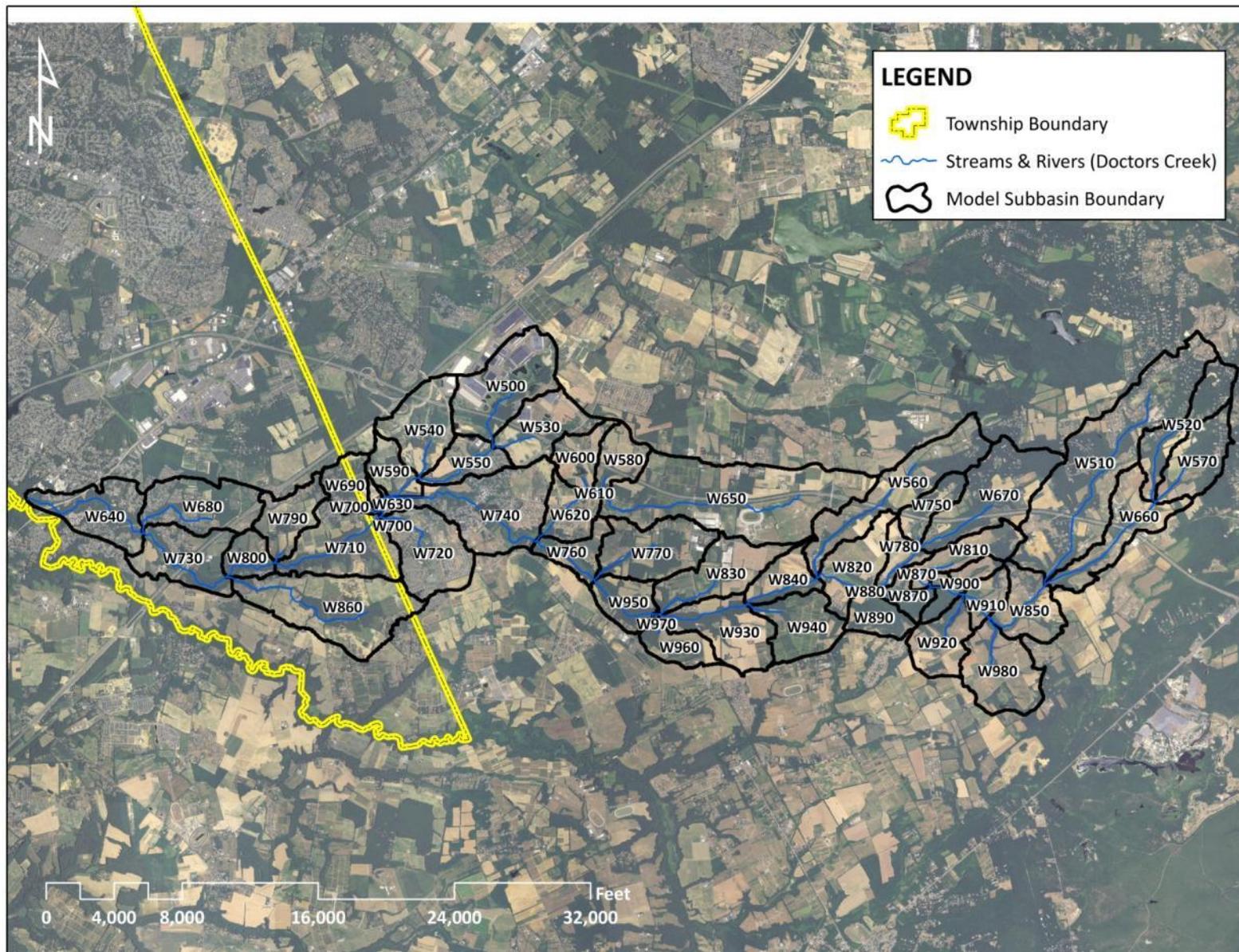
## **Appendix V. Shady Brook Subbasin Delineation**



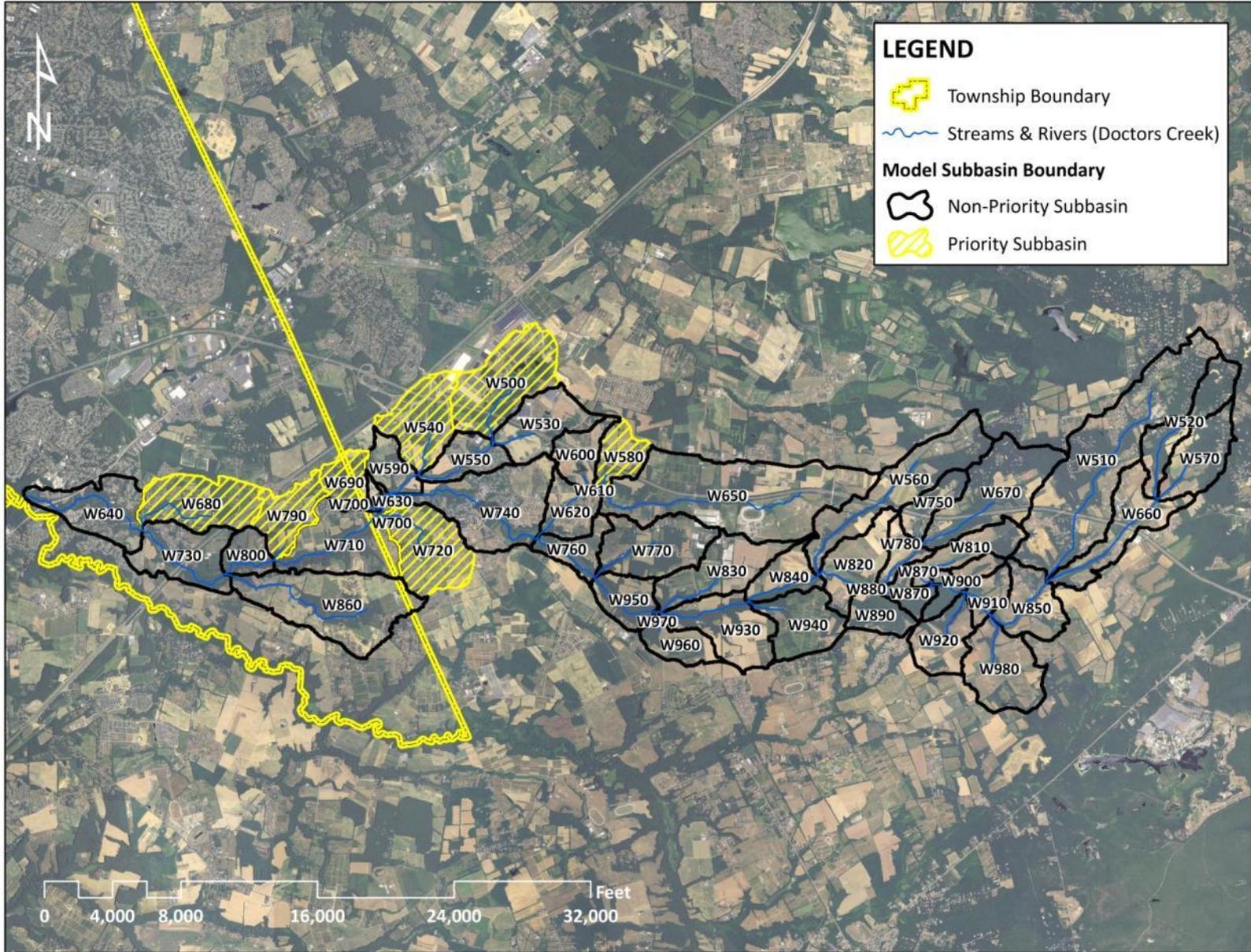
## **Appendix VI. Shady Brook Priority Subbasins**



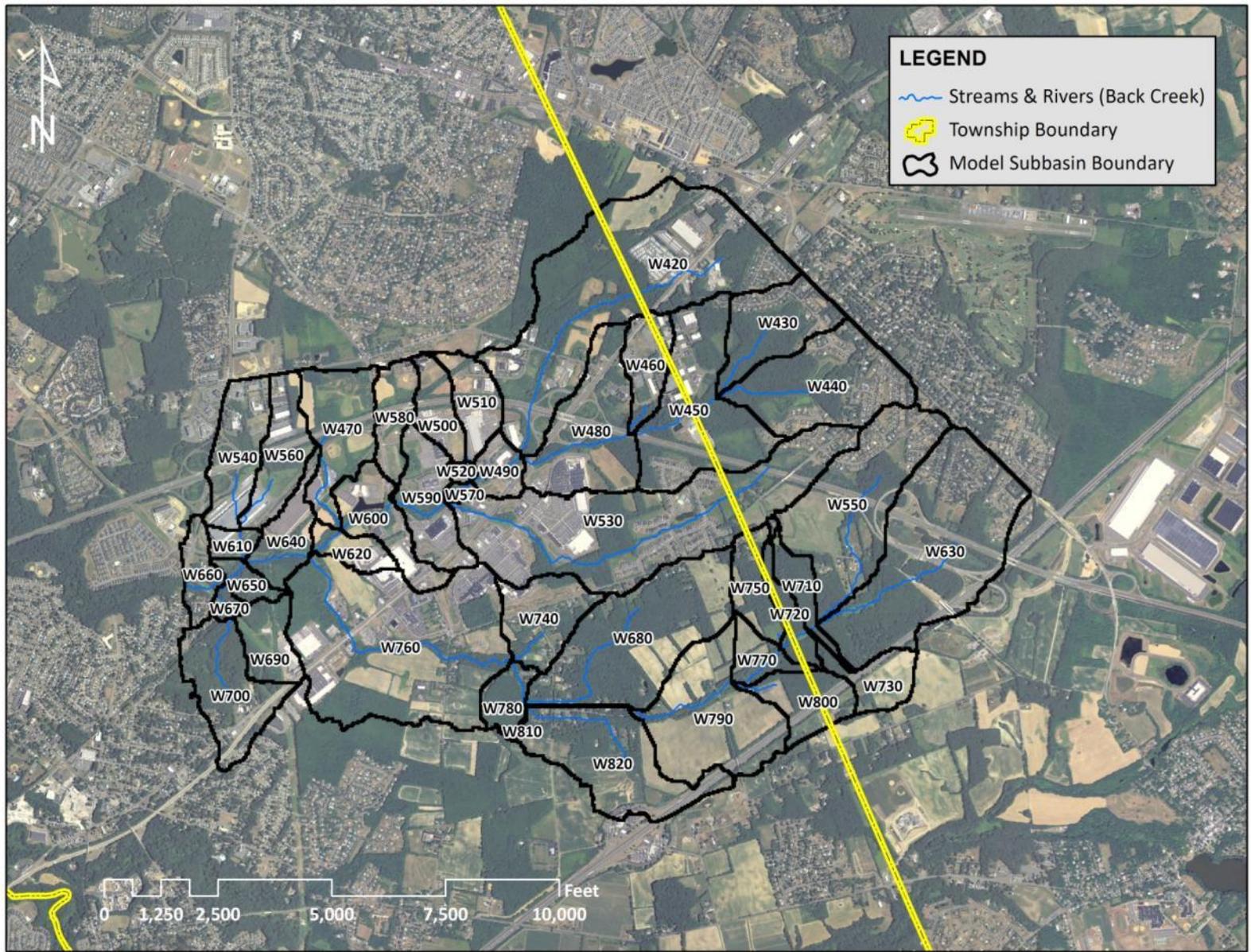
## **Appendix VII. Doctors Creek Subbasin Delineation**



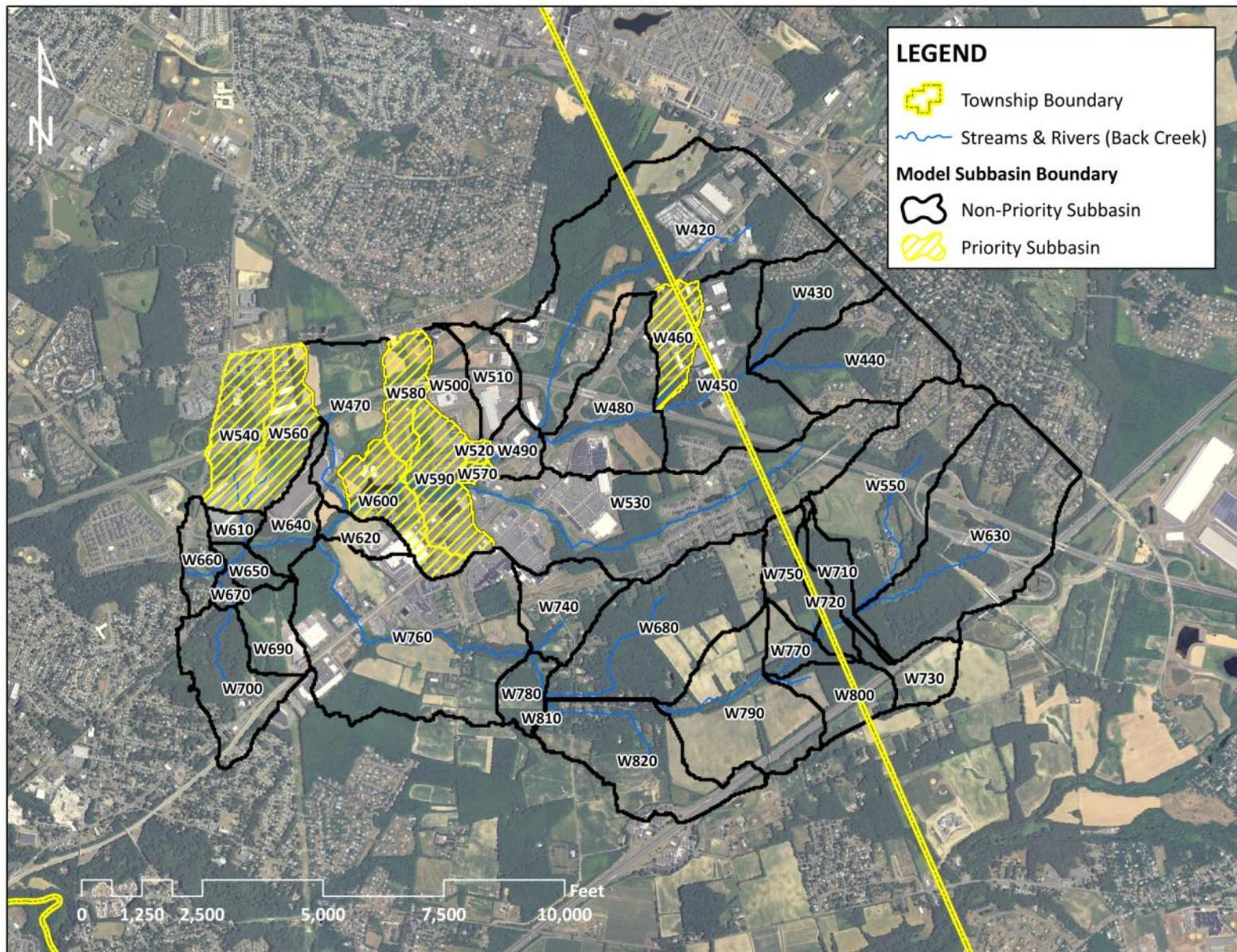
## **Appendix VIII. Doctors Creek Priority Subbasins**



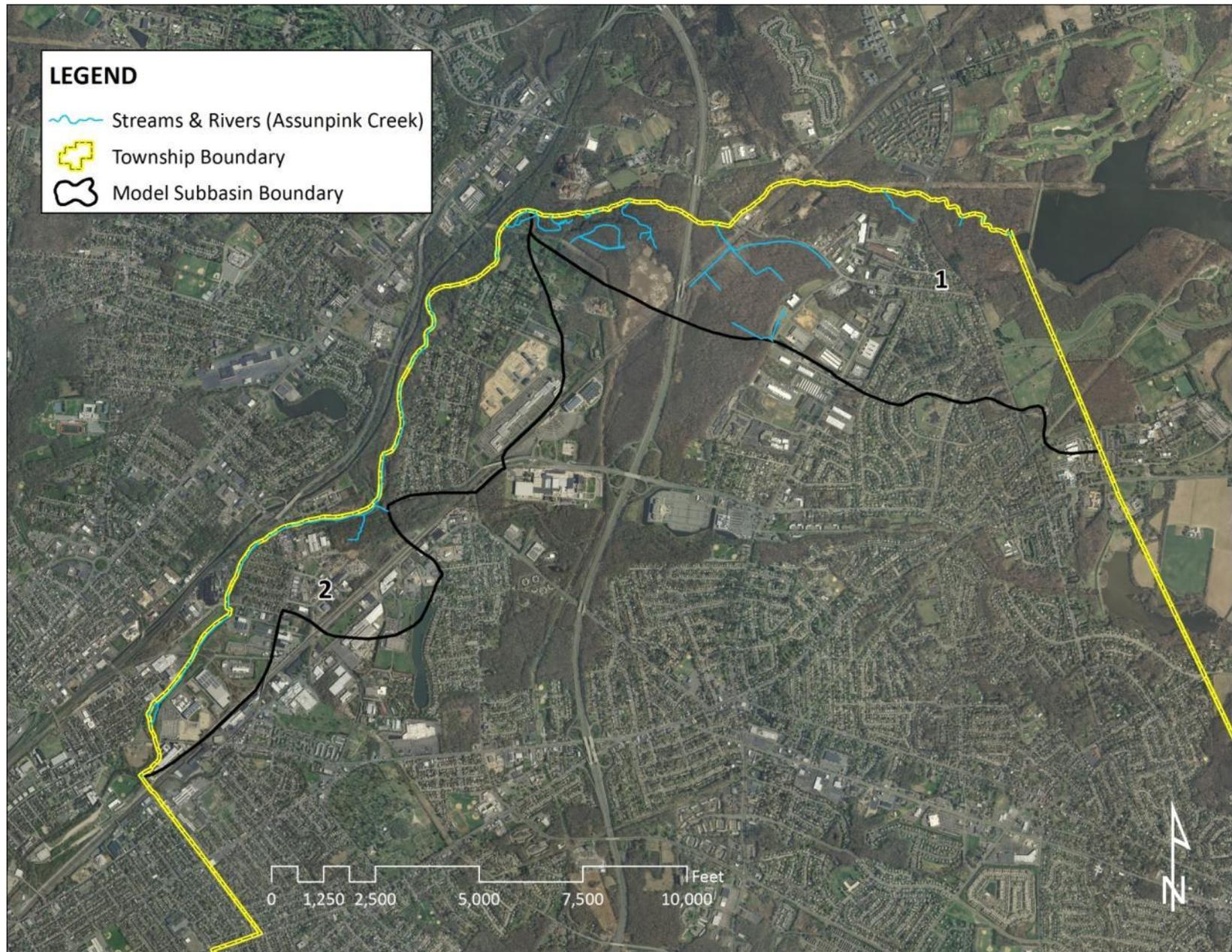
## **Appendix IX. Back Creek Subbasin Delineation**



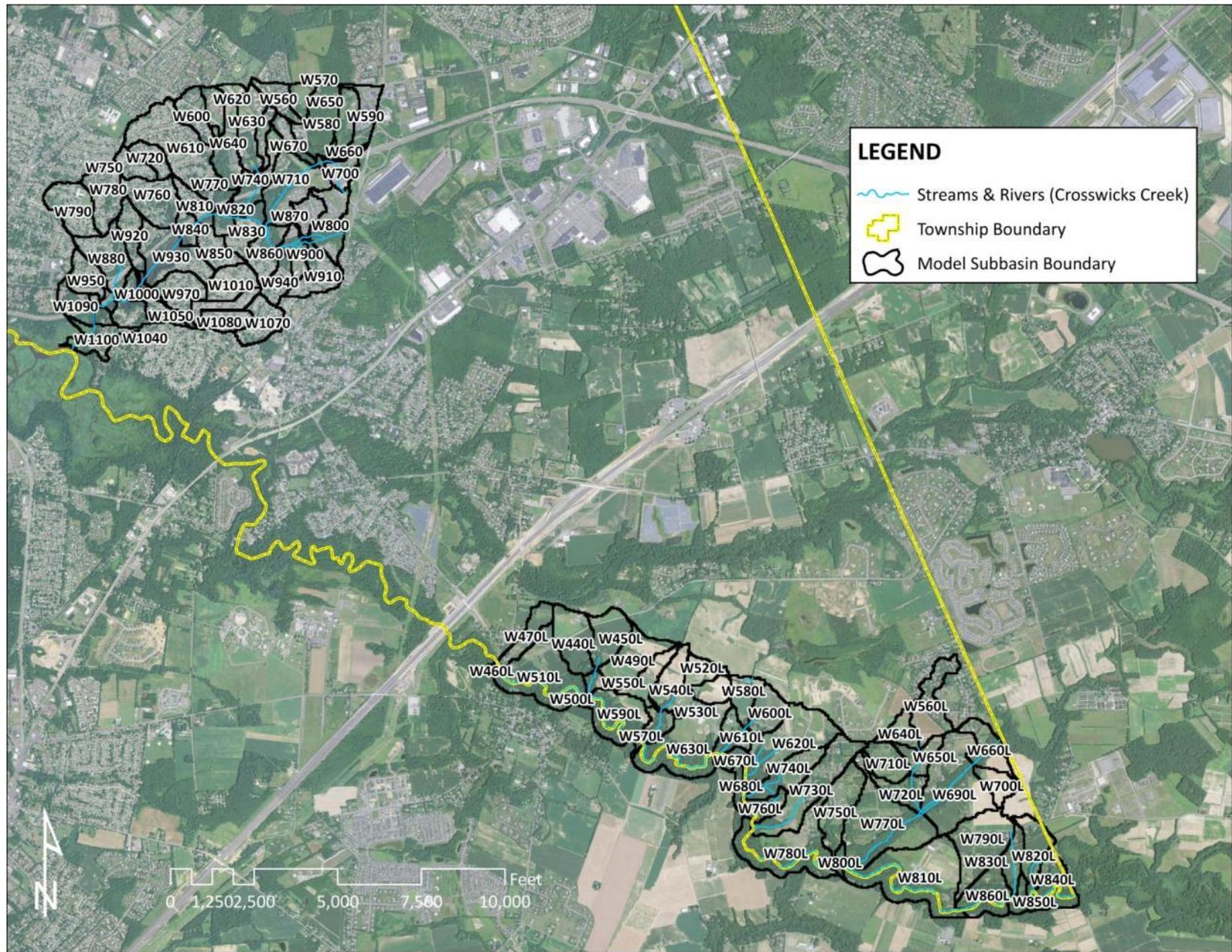
## **Appendix X. Back Creek Priority Subbasins**



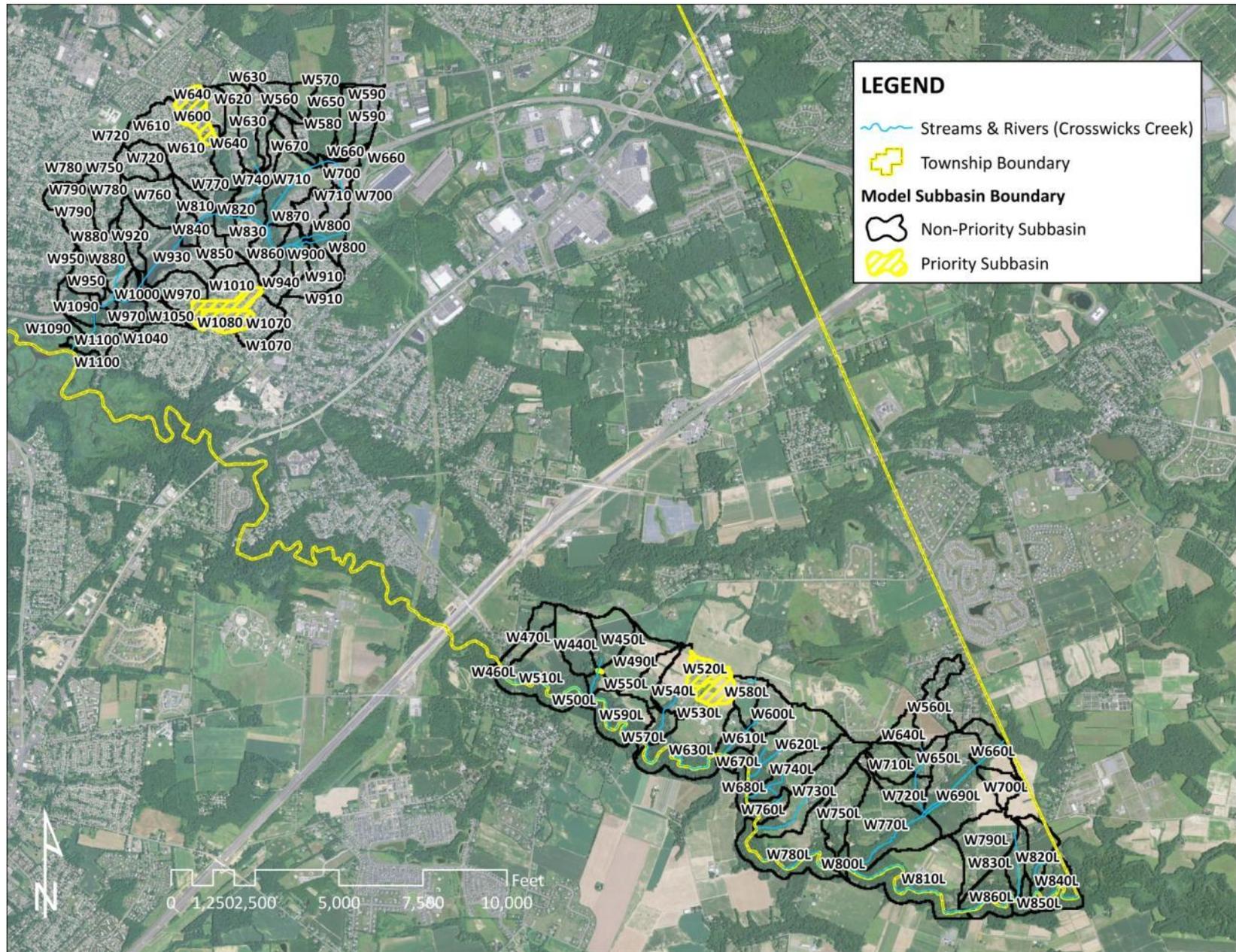
## **Appendix XI. Assunpink Creek Subbasin Delineation**



## **Appendix XII. Crosswicks Creek Subbasin Delineation**



## **Appendix XIII. Crosswicks Creek Priority Subbasins**



## **Appendix XIV. Miry Run Model Results**

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	Impervious %	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Miry Run	2 year	W660	9.9	2.7	0.9	0.091	1.2	76.8	5.9	21.7%	76.4%	0.0%	0.0%	0.0%	2.0%	0.6
Miry Run	2 year	W670	63.3	17.5	5.1	0.081	6.3	48.7	37.5	51.8%	37.8%	0.0%	5.9%	0.0%	4.6%	3.6
Miry Run	2 year	W680	97.1	26.8	5.3	0.055	7.0	44.6	23.4	65.8%	30.5%	0.0%	3.0%	0.0%	0.7%	5.1
Miry Run	2 year	W690	57.4	15.8	2.6	0.045	3.4	34.1	22.5	38.9%	45.8%	0.0%	13.2%	0.0%	2.1%	7.5
Miry Run	2 year	W700	153.9	42.5	14.3	0.093	30.4	71.8	7.3	44.4%	7.0%	37.8%	6.8%	0.0%	4.0%	2.5
Miry Run	2 year	W710	92.8	25.6	3.1	0.033	3.2	57.3	26.4	91.9%	7.6%	0.0%	0.5%	0.0%	0.0%	2.2
Miry Run	2 year	W720	112.9	31.1	10.9	0.097	13.1	72.1	27.9	95.4%	0.1%	0.0%	4.2%	0.0%	0.3%	1.7
Miry Run	2 year	W730	145.7	40.2	4.2	0.029	4.4	68.8	26.6	90.9%	5.7%	0.0%	2.4%	0.0%	1.0%	2.2
Miry Run	2 year	W740	2.0	0.6	0.2	0.100	0.3	74.2	28.1	46.4%	33.9%	0.0%	14.2%	0.0%	5.5%	0.5
Miry Run	2 year	W750	79.9	22.0	0.6	0.008	0.7	38.3	33.5	80.6%	15.1%	0.0%	2.8%	0.0%	1.6%	5.5
Miry Run	2 year	W760	222.9	61.5	22.8	0.102	34.5	64.4	28.6	92.1%	2.7%	2.7%	2.6%	0.0%	0.0%	2.7
Miry Run	2 year	W770	171.5	47.3	6.8	0.040	9.7	29.2	43.2	72.0%	22.3%	0.0%	0.7%	0.1%	4.8%	11.0
Miry Run	2 year	W780	57.5	15.9	2.2	0.038	2.3	76.6	21.8	79.0%	14.6%	1.9%	3.5%	0.0%	1.0%	1.2
Miry Run	2 year	W790	17.4	4.8	0.6	0.035	0.7	55.4	7.8	10.7%	76.8%	0.0%	1.2%	0.0%	11.4%	3.8
Miry Run	2 year	W800	127.9	35.3	13.2	0.103	19.1	62.3	31.9	94.6%	4.3%	0.0%	0.4%	0.6%	0.0%	2.6
Miry Run	2 year	W810	140.8	38.8	5.3	0.038	8.7	60.2	1.7	4.9%	16.2%	77.7%	0.0%	0.0%	1.1%	2.8
Miry Run	2 year	W820	70.8	19.5	5.2	0.073	8.0	45.0	28.5	90.1%	9.2%	0.7%	0.0%	0.0%	0.0%	2.9
Miry Run	2 year	W830	154.2	42.5	11.8	0.077	16.7	39.9	31.8	89.3%	9.4%	0.0%	1.2%	0.0%	0.0%	5.4
Miry Run	2 year	W840	198.3	54.7	1.8	0.009	2.1	72.8	21.6	73.5%	17.5%	1.4%	6.1%	0.0%	1.5%	1.7
Miry Run	2 year	W850	153.8	42.4	13.4	0.087	27.5	70.0	8.5	30.6%	0.4%	67.8%	1.0%	0.0%	0.2%	2.2
Miry Run	2 year	W860	186.6	51.5	0.2	0.001	0.4	21.6	19.0	56.1%	38.8%	0.0%	5.1%	0.0%	0.0%	11.1
Miry Run	2 year	W870	77.3	21.3	2.9	0.038	3.2	35.1	28.3	81.2%	17.1%	0.0%	1.7%	0.0%	0.0%	3.1
Miry Run	2 year	W880	73.6	20.3	0.1	0.001	0.2	48.2	5.9	27.3%	6.0%	21.6%	10.1%	0.0%	35.1%	2.0
Miry Run	2 year	W890	175.2	48.3	4.8	0.027	6.6	51.1	6.5	34.2%	23.3%	36.9%	5.3%	0.0%	0.3%	3.9
Miry Run	2 year	W900	47.9	13.2	0.7	0.015	0.8	56.9	3.4	13.8%	11.8%	50.5%	7.6%	0.0%	16.3%	1.8
Miry Run	2 year	W910	87.9	24.3	2.2	0.025	2.6	63.9	1.5	8.2%	16.2%	66.4%	2.7%	0.0%	6.6%	1.8
Miry Run	2 year	W920	76.9	21.2	5.4	0.070	6.0	67.9	21.0	77.8%	11.0%	0.0%	8.5%	0.0%	2.7%	1.3

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	Imperious %	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Miry Run	2 year	W930	149.4	41.2	5.4	0.036	5.6	48.4	29.4	92.2%	5.1%	0.9%	1.8%	0.0%	0.0%	3.2
Miry Run	2 year	W940	182.0	50.2	13.2	0.073	19.2	51.2	25.5	82.7%	12.6%	2.8%	1.6%	0.0%	0.4%	5.2
Miry Run	2 year	W950	37.3	10.3	0.2	0.005	0.2	59.5	0.7	13.7%	37.6%	40.9%	4.7%	0.0%	3.1%	1.1
Miry Run	2 year	W960	87.1	24.0	1.3	0.015	1.5	45.8	5.5	18.5%	42.6%	36.8%	2.2%	0.0%	0.0%	2.2
Miry Run	2 year	W970	13.1	3.6	0.0	0.000	0.0	44.1	0.2	0.3%	41.4%	46.0%	10.1%	0.0%	2.2%	1.1
Miry Run	2 year	W980	287.3	79.3	22.5	0.078	34.9	59.5	21.5	48.8%	18.8%	19.0%	6.5%	6.8%	0.1%	3.7
Miry Run	2 year	W990	1.3	0.4	0.0	0.000	0.0	11.3	0.0	17.2%	82.8%	0.0%	0.0%	0.0%	0.0%	2.2
Miry Run	2 year	W1000	181.1	50.0	4.8	0.026	5.1	55.2	14.6	33.2%	30.7%	33.2%	2.8%	0.0%	0.0%	2.8
Miry Run	2 year	W1010	410.9	113.4	18.7	0.046	28.0	54.2	11.7	34.9%	39.4%	24.2%	1.2%	0.0%	0.3%	5.8
Miry Run	2 year	W1020	108.5	29.9	12.4	0.114	21.5	61.9	33.6	99.5%	0.5%	0.0%	0.0%	0.0%	0.0%	1.9
Miry Run	2 year	W1030	93.5	25.8	2.1	0.022	3.3	43.5	7.9	25.9%	47.6%	21.5%	5.0%	0.0%	0.0%	3.2
Miry Run	2 year	W1040	4.1	1.1	0.0	0.000	0.0	4.6	3.5	35.4%	64.6%	0.0%	0.0%	0.0%	0.0%	5.7
Miry Run	2 year	W1050	105.5	29.1	2.4	0.023	3.6	40.9	8.9	32.8%	42.4%	21.0%	3.8%	0.0%	0.0%	3.7
Miry Run	2 year	W1060	115.5	31.9	8.5	0.074	13.0	48.0	27.2	83.0%	17.0%	0.0%	0.0%	0.0%	0.0%	2.3
Miry Run	2 year	W1070	154.3	42.6	20.7	0.134	32.7	65.6	41.6	52.0%	7.5%	3.2%	2.3%	32.5%	2.5%	2.2
Miry Run	2 year	W1080	89.5	24.7	7.0	0.078	10.2	64.2	17.5	75.2%	20.5%	0.9%	3.2%	0.0%	0.1%	2.7
Miry Run	2 year	W1090	57.1	15.7	0.3	0.005	0.3	36.2	8.1	45.9%	39.2%	6.6%	8.3%	0.0%	0.0%	3.2
Miry Run	2 year	W1100	19.4	5.3	0.5	0.026	0.6	74.6	15.4	65.4%	34.6%	0.0%	0.0%	0.0%	0.0%	0.7
Miry Run	2 year	W1110	181.5	50.1	8.9	0.049	12.7	57.5	11.3	45.8%	45.3%	0.6%	6.4%	1.8%	0.1%	3.5
Miry Run	2 year	W1120	21.0	5.8	0.9	0.043	0.9	77.6	9.7	65.9%	33.8%	0.0%	0.3%	0.0%	0.0%	0.6
Miry Run	2 year	W1130	111.2	30.7	9.7	0.087	13.9	66.6	18.8	50.6%	10.4%	27.3%	11.6%	0.0%	0.0%	1.6
Miry Run	2 year	W1140	188.3	51.9	22.5	0.119	46.0	68.5	25.3	43.2%	22.4%	25.6%	5.9%	2.0%	0.9%	1.6
Miry Run	2 year	W1150	149.2	41.2	3.9	0.026	4.9	20.1	13.5	30.7%	55.9%	2.2%	11.2%	0.0%	0.0%	13.0
Miry Run	2 year	W1160	49.9	13.8	2.8	0.056	2.9	76.0	17.9	68.0%	13.1%	3.4%	15.3%	0.0%	0.1%	1.0
Miry Run	2 year	W1170	87.1	24.0	0.2	0.002	0.3	27.1	2.5	7.3%	66.9%	14.5%	11.2%	0.0%	0.0%	8.1
Miry Run	2 year	W1180	86.5	23.9	1.8	0.021	2.6	26.8	8.9	37.1%	26.7%	17.4%	15.5%	3.3%	0.1%	5.1
Miry Run	2 year	W1190	16.5	4.5	0.6	0.036	0.5	45.2	30.8	73.2%	17.7%	9.1%	0.0%	0.0%	0.0%	1.3

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	Impervious %	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Miry Run	2 year	W1200	189.8	52.4	0.8	0.004	1.1	29.2	2.1	22.9%	58.1%	10.9%	7.8%	0.4%	0.0%	9.2
Miry Run	2 year	W1210	156.5	43.2	7.7	0.049	13.4	42.8	18.2	96.8%	1.8%	0.5%	0.6%	0.0%	0.4%	3.0
Miry Run	2 year	W1220	134.9	37.2	7.4	0.055	10.4	47.9	20.6	90.2%	7.2%	0.1%	0.8%	0.4%	1.3%	3.2
Miry Run	2 year	W1230	109.7	30.2	0.8	0.007	0.9	42.2	11.3	82.9%	12.1%	0.0%	4.6%	0.0%	0.5%	3.4
Miry Run	2 year	W1240	182.3	50.3	1.9	0.010	2.2	38.3	9.3	46.0%	45.3%	0.1%	7.6%	0.1%	1.0%	6.7
Miry Run	2 year	W1250	87.3	24.1	0.8	0.009	1.1	29.0	4.1	18.5%	67.5%	6.2%	6.4%	1.3%	0.1%	5.2
Miry Run	2 year	W1260	180.6	49.8	10.4	0.058	15.9	60.1	11.5	65.3%	19.7%	5.2%	8.8%	0.1%	0.8%	2.8
Miry Run	2 year	W1270	109.9	30.3	19.4	0.177	37.0	78.7	41.9	57.9%	4.4%	16.3%	15.2%	3.7%	2.6%	2.2
Miry Run	2 year	W1280	106.6	29.4	3.1	0.029	3.6	49.3	10.9	41.2%	47.8%	2.9%	8.2%	0.0%	0.0%	2.3
Miry Run	2 year	W1290	124.5	34.3	2.8	0.022	3.8	37.1	9.9	28.9%	53.4%	4.9%	12.8%	0.0%	0.0%	5.4
Miry Run	2 year	W1300	97.4	26.9	1.1	0.011	1.2	81.1	22.8	30.5%	2.0%	60.5%	2.0%	5.0%	0.0%	1.3
Miry Run	10 year	W660	9.9	4.1	1.8	0.182	2.4	76.8	5.9	21.7%	76.4%	0.0%	0.0%	0.0%	2.0%	0.6
Miry Run	10 year	W670	63.3	26.5	8.7	0.137	10.7	48.7	37.5	51.8%	37.8%	0.0%	5.9%	0.0%	4.6%	3.6
Miry Run	10 year	W680	97.1	40.6	9.5	0.098	12.6	44.6	23.4	65.8%	30.5%	0.0%	3.0%	0.0%	0.7%	5.1
Miry Run	10 year	W690	57.4	24.0	4.0	0.070	5.2	34.1	22.5	38.9%	45.8%	0.0%	13.2%	0.0%	2.1%	7.5
Miry Run	10 year	W700	153.9	64.4	30.4	0.198	67.1	71.8	7.3	44.4%	7.0%	37.8%	6.8%	0.0%	4.0%	2.5
Miry Run	10 year	W710	92.8	38.8	5.8	0.063	6.1	57.3	26.4	91.9%	7.6%	0.0%	0.5%	0.0%	0.0%	2.2
Miry Run	10 year	W720	112.9	47.2	20.0	0.177	24.4	72.1	27.9	95.4%	0.1%	0.0%	4.2%	0.0%	0.3%	1.7
Miry Run	10 year	W730	145.7	60.9	7.7	0.053	8.3	68.8	26.6	90.9%	5.7%	0.0%	2.4%	0.0%	1.0%	2.2
Miry Run	10 year	W740	2.0	0.8	0.4	0.200	0.5	74.2	28.1	46.4%	33.9%	0.0%	14.2%	0.0%	5.5%	0.5
Miry Run	10 year	W750	79.9	33.4	1.0	0.013	1.2	38.3	33.5	80.6%	15.1%	0.0%	2.8%	0.0%	1.6%	5.5
Miry Run	10 year	W760	222.9	93.2	42.5	0.191	66.7	64.4	28.6	92.1%	2.7%	2.7%	2.6%	0.0%	0.0%	2.7
Miry Run	10 year	W770	171.5	71.8	10.4	0.061	14.7	29.2	43.2	72.0%	22.3%	0.0%	0.7%	0.1%	4.8%	11.0
Miry Run	10 year	W780	57.5	24.1	4.0	0.070	4.2	76.6	21.8	79.0%	14.6%	1.9%	3.5%	0.0%	1.0%	1.2
Miry Run	10 year	W790	17.4	7.3	1.4	0.081	1.8	55.4	7.8	10.7%	76.8%	0.0%	1.2%	0.0%	11.4%	3.8
Miry Run	10 year	W800	127.9	53.5	24.0	0.188	36.0	62.3	31.9	94.6%	4.3%	0.0%	0.4%	0.6%	0.0%	2.6
Miry Run	10 year	W810	140.8	58.9	14.8	0.105	27.7	60.2	1.7	4.9%	16.2%	77.7%	0.0%	0.0%	1.1%	2.8

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	Impervious %	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Miry Run	10 year	W820	70.8	29.6	9.2	0.130	13.8	45.0	28.5	90.1%	9.2%	0.7%	0.0%	0.0%	0.0%	2.9
Miry Run	10 year	W830	154.2	64.5	19.3	0.125	26.7	39.9	31.8	89.3%	9.4%	0.0%	1.2%	0.0%	0.0%	5.4
Miry Run	10 year	W840	198.3	83.0	3.4	0.017	3.9	72.8	21.6	73.5%	17.5%	1.4%	6.1%	0.0%	1.5%	1.7
Miry Run	10 year	W850	153.8	64.3	28.8	0.187	61.7	70.0	8.5	30.6%	0.4%	67.8%	1.0%	0.0%	0.2%	2.2
Miry Run	10 year	W860	186.6	78.0	0.3	0.002	0.5	21.6	19.0	56.1%	38.8%	0.0%	5.1%	0.0%	0.0%	11.1
Miry Run	10 year	W870	77.3	32.3	4.6	0.060	4.8	35.1	28.3	81.2%	17.1%	0.0%	1.7%	0.0%	0.0%	3.1
Miry Run	10 year	W880	73.6	30.8	0.4	0.005	0.5	48.2	5.9	27.3%	6.0%	21.6%	10.1%	0.0%	35.1%	2.0
Miry Run	10 year	W890	175.2	73.3	13.1	0.075	20.4	51.1	6.5	34.2%	23.3%	36.9%	5.3%	0.0%	0.3%	3.9
Miry Run	10 year	W900	47.9	20.1	2.0	0.042	2.3	56.9	3.4	13.8%	11.8%	50.5%	7.6%	0.0%	16.3%	1.8
Miry Run	10 year	W910	87.9	36.8	5.8	0.066	6.8	63.9	1.5	8.2%	16.2%	66.4%	2.7%	0.0%	6.6%	1.8
Miry Run	10 year	W920	76.9	32.2	10.5	0.137	12.0	67.9	21.0	77.8%	11.0%	0.0%	8.5%	0.0%	2.7%	1.3
Miry Run	10 year	W930	149.4	62.5	9.4	0.063	10.1	48.4	29.4	92.2%	5.1%	0.9%	1.8%	0.0%	0.0%	3.2
Miry Run	10 year	W940	182.0	76.1	24.7	0.136	37.0	51.2	25.5	82.7%	12.6%	2.8%	1.6%	0.0%	0.4%	5.2
Miry Run	10 year	W950	37.3	15.6	0.6	0.016	0.7	59.5	0.7	13.7%	37.6%	40.9%	4.7%	0.0%	3.1%	1.1
Miry Run	10 year	W960	87.1	36.4	3.9	0.045	4.7	45.8	5.5	18.5%	42.6%	36.8%	2.2%	0.0%	0.0%	2.2
Miry Run	10 year	W970	13.1	5.5	0.0	0.000	0.1	44.1	0.2	0.3%	41.4%	46.0%	10.1%	0.0%	2.2%	1.1
Miry Run	10 year	W980	287.3	120.2	44.6	0.155	72.5	59.5	21.5	48.8%	18.8%	19.0%	6.5%	6.8%	0.1%	3.7
Miry Run	10 year	W990	1.3	0.6	0.0	0.000	0.0	11.3	0.0	17.2%	82.8%	0.0%	0.0%	0.0%	0.0%	2.2
Miry Run	10 year	W1000	181.1	75.8	10.2	0.056	11.4	55.2	14.6	33.2%	30.7%	33.2%	2.8%	0.0%	0.0%	2.8
Miry Run	10 year	W1010	410.9	171.9	43.1	0.105	69.4	54.2	11.7	34.9%	39.4%	24.2%	1.2%	0.0%	0.3%	5.8
Miry Run	10 year	W1020	108.5	45.4	22.5	0.207	40.3	61.9	33.6	99.5%	0.5%	0.0%	0.0%	0.0%	0.0%	1.9
Miry Run	10 year	W1030	93.5	39.1	5.2	0.056	7.8	43.5	7.9	25.9%	47.6%	21.5%	5.0%	0.0%	0.0%	3.2
Miry Run	10 year	W1040	4.1	1.7	0.0	0.000	0.0	4.6	3.5	35.4%	64.6%	0.0%	0.0%	0.0%	0.0%	5.7
Miry Run	10 year	W1050	105.5	44.1	5.1	0.048	7.0	40.9	8.9	32.8%	42.4%	21.0%	3.8%	0.0%	0.0%	3.7
Miry Run	10 year	W1060	115.5	48.3	15.5	0.134	23.5	48.0	27.2	83.0%	17.0%	0.0%	0.0%	0.0%	0.0%	2.3
Miry Run	10 year	W1070	154.3	64.6	36.0	0.233	58.3	65.6	41.6	52.0%	7.5%	3.2%	2.3%	32.5%	2.5%	2.2
Miry Run	10 year	W1080	89.5	37.4	14.1	0.158	21.7	64.2	17.5	75.2%	20.5%	0.9%	3.2%	0.0%	0.1%	2.7

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	Impervious %	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Miry Run	10 year	W1090	57.1	23.9	0.6	0.011	0.6	36.2	8.1	45.9%	39.2%	6.6%	8.3%	0.0%	0.0%	3.2
Miry Run	10 year	W1100	19.4	8.1	1.0	0.052	1.1	74.6	15.4	65.4%	34.6%	0.0%	0.0%	0.0%	0.0%	0.7
Miry Run	10 year	W1110	181.5	75.9	20.4	0.112	31.2	57.5	11.3	45.8%	45.3%	0.6%	6.4%	1.8%	0.1%	3.5
Miry Run	10 year	W1120	21.0	8.8	1.7	0.081	1.8	77.6	9.7	65.9%	33.8%	0.0%	0.3%	0.0%	0.0%	0.6
Miry Run	10 year	W1130	111.2	46.5	19.2	0.173	28.9	66.6	18.8	50.6%	10.4%	27.3%	11.6%	0.0%	0.0%	1.6
Miry Run	10 year	W1140	188.3	78.8	42.7	0.227	90.7	68.5	25.3	43.2%	22.4%	25.6%	5.9%	2.0%	0.9%	1.6
Miry Run	10 year	W1150	149.2	62.4	5.8	0.039	7.5	20.1	13.5	30.7%	55.9%	2.2%	11.2%	0.0%	0.0%	13.0
Miry Run	10 year	W1160	49.9	20.9	5.3	0.106	5.5	76.0	17.9	68.0%	13.1%	3.4%	15.3%	0.0%	0.1%	1.0
Miry Run	10 year	W1170	87.1	36.4	0.3	0.003	0.4	27.1	2.5	7.3%	66.9%	14.5%	11.2%	0.0%	0.0%	8.1
Miry Run	10 year	W1180	86.5	36.2	2.8	0.032	3.9	26.8	8.9	37.1%	26.7%	17.4%	15.5%	3.3%	0.1%	5.1
Miry Run	10 year	W1190	16.5	6.9	0.9	0.055	0.9	45.2	30.8	73.2%	17.7%	9.1%	0.0%	0.0%	0.0%	1.3
Miry Run	10 year	W1200	189.8	79.4	1.3	0.007	1.6	29.2	2.1	22.9%	58.1%	10.9%	7.8%	0.4%	0.0%	9.2
Miry Run	10 year	W1210	156.5	65.5	14.5	0.093	23.6	42.8	18.2	96.8%	1.8%	0.5%	0.6%	0.0%	0.4%	3.0
Miry Run	10 year	W1220	134.9	56.4	14.3	0.106	20.2	47.9	20.6	90.2%	7.2%	0.1%	0.8%	0.4%	1.3%	3.2
Miry Run	10 year	W1230	109.7	45.9	1.7	0.016	1.9	42.2	11.3	82.9%	12.1%	0.0%	4.6%	0.0%	0.5%	3.4
Miry Run	10 year	W1240	182.3	76.3	3.4	0.019	4.2	38.3	9.3	46.0%	45.3%	0.1%	7.6%	0.1%	1.0%	6.7
Miry Run	10 year	W1250	87.3	36.5	1.2	0.014	1.6	29.0	4.1	18.5%	67.5%	6.2%	6.4%	1.3%	0.1%	5.2
Miry Run	10 year	W1260	180.6	75.5	23.3	0.129	38.4	60.1	11.5	65.3%	19.7%	5.2%	8.8%	0.1%	0.8%	2.8
Miry Run	10 year	W1270	109.9	46.0	33.1	0.301	64.0	78.7	41.9	57.9%	4.4%	16.3%	15.2%	3.7%	2.6%	2.2
Miry Run	10 year	W1280	106.6	44.6	7.2	0.068	8.7	49.3	10.9	41.2%	47.8%	2.9%	8.2%	0.0%	0.0%	2.3
Miry Run	10 year	W1290	124.5	52.1	5.0	0.040	6.4	37.1	9.9	28.9%	53.4%	4.9%	12.8%	0.0%	0.0%	5.4
Miry Run	10 year	W1300	97.4	40.8	1.9	0.019	2.1	81.1	22.8	30.5%	2.0%	60.5%	2.0%	5.0%	0.0%	1.3
Miry Run	100 year	W660	9.9	6.9	3.8	0.384	5.2	76.8	5.9	21.7%	76.4%	0.0%	0.0%	0.0%	2.0%	0.6
Miry Run	100 year	W670	63.3	44.0	17.3	0.273	22.0	48.7	37.5	51.8%	37.8%	0.0%	5.9%	0.0%	4.6%	3.6
Miry Run	100 year	W680	97.1	67.6	21.3	0.219	29.5	44.6	23.4	65.8%	30.5%	0.0%	3.0%	0.0%	0.7%	5.1
Miry Run	100 year	W690	57.4	39.9	8.3	0.145	10.9	34.1	22.5	38.9%	45.8%	0.0%	13.2%	0.0%	2.1%	7.5
Miry Run	100 year	W700	153.9	107.1	67.5	0.439	150.7	71.8	7.3	44.4%	7.0%	37.8%	6.8%	0.0%	4.0%	2.5

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Miry Run	100 year	W710	92.8	64.6	12.4	0.134	13.3	57.3	26.4	91.9%	7.6%	0.0%	0.5%	0.0%	0.0%	2.2
Miry Run	100 year	W720	112.9	78.6	39.9	0.353	49.6	72.1	27.9	95.4%	0.1%	0.0%	4.2%	0.0%	0.3%	1.7
Miry Run	100 year	W730	145.7	101.4	15.8	0.108	16.9	68.8	26.6	90.9%	5.7%	0.0%	2.4%	0.0%	1.0%	2.2
Miry Run	100 year	W740	2.0	1.4	0.8	0.399	1.0	74.2	28.1	46.4%	33.9%	0.0%	14.2%	0.0%	5.5%	0.5
Miry Run	100 year	W750	79.9	55.6	1.9	0.024	2.4	38.3	33.5	80.6%	15.1%	0.0%	2.8%	0.0%	1.6%	5.5
Miry Run	100 year	W760	222.9	155.1	87.6	0.393	142.1	64.4	28.6	92.1%	2.7%	2.7%	2.6%	0.0%	0.0%	2.7
Miry Run	100 year	W770	171.5	119.3	17.9	0.104	25.8	29.2	43.2	72.0%	22.3%	0.0%	0.7%	0.1%	4.8%	11.0
Miry Run	100 year	W780	57.5	40.0	8.1	0.141	8.3	76.6	21.8	79.0%	14.6%	1.9%	3.5%	0.0%	1.0%	1.2
Miry Run	100 year	W790	17.4	12.1	3.7	0.213	5.2	55.4	7.8	10.7%	76.8%	0.0%	1.2%	0.0%	11.4%	3.8
Miry Run	100 year	W800	127.9	89.0	49.1	0.384	75.9	62.3	31.9	94.6%	4.3%	0.0%	0.4%	0.6%	0.0%	2.6
Miry Run	100 year	W810	140.8	98.0	40.3	0.286	80.6	60.2	1.7	4.9%	16.2%	77.7%	0.0%	0.0%	1.1%	2.8
Miry Run	100 year	W820	70.8	49.3	19.6	0.277	30.5	45.0	28.5	90.1%	9.2%	0.7%	0.0%	0.0%	0.0%	2.9
Miry Run	100 year	W830	154.2	107.3	39.0	0.253	55.4	39.9	31.8	89.3%	9.4%	0.0%	1.2%	0.0%	0.0%	5.4
Miry Run	100 year	W840	198.3	138.0	7.0	0.035	7.9	72.8	21.6	73.5%	17.5%	1.4%	6.1%	0.0%	1.5%	1.7
Miry Run	100 year	W850	153.8	107.0	64.6	0.420	140.7	70.0	8.5	30.6%	0.4%	67.8%	1.0%	0.0%	0.2%	2.2
Miry Run	100 year	W860	186.6	129.8	0.5	0.003	0.9	21.6	19.0	56.1%	38.8%	0.0%	5.1%	0.0%	0.0%	11.1
Miry Run	100 year	W870	77.3	53.8	9.0	0.116	9.7	35.1	28.3	81.2%	17.1%	0.0%	1.7%	0.0%	0.0%	3.1
Miry Run	100 year	W880	73.6	51.2	1.2	0.016	1.5	48.2	5.9	27.3%	6.0%	21.6%	10.1%	0.0%	35.1%	2.0
Miry Run	100 year	W890	175.2	121.9	38.0	0.217	64.6	51.1	6.5	34.2%	23.3%	36.9%	5.3%	0.0%	0.3%	3.9
Miry Run	100 year	W900	47.9	33.4	5.7	0.119	6.5	56.9	3.4	13.8%	11.8%	50.5%	7.6%	0.0%	16.3%	1.8
Miry Run	100 year	W910	87.9	61.2	15.2	0.173	17.5	63.9	1.5	8.2%	16.2%	66.4%	2.7%	0.0%	6.6%	1.8
Miry Run	100 year	W920	76.9	53.5	22.1	0.287	25.7	67.9	21.0	77.8%	11.0%	0.0%	8.5%	0.0%	2.7%	1.3
Miry Run	100 year	W930	149.4	103.9	19.8	0.133	21.9	48.4	29.4	92.2%	5.1%	0.9%	1.8%	0.0%	0.0%	3.2
Miry Run	100 year	W940	182.0	126.6	54.2	0.298	85.2	51.2	25.5	82.7%	12.6%	2.8%	1.6%	0.0%	0.4%	5.2
Miry Run	100 year	W950	37.3	26.0	1.7	0.046	1.9	59.5	0.7	13.7%	37.6%	40.9%	4.7%	0.0%	3.1%	1.1
Miry Run	100 year	W960	87.1	60.6	12.8	0.147	16.6	45.8	5.5	18.5%	42.6%	36.8%	2.2%	0.0%	0.0%	2.2
Miry Run	100 year	W970	13.1	9.1	0.2	0.015	0.2	44.1	0.2	0.3%	41.4%	46.0%	10.1%	0.0%	2.2%	1.1

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Miry Run	100 year	W980	287.3	199.9	98.5	0.343	167.7	59.5	21.5	48.8%	18.8%	19.0%	6.5%	6.8%	0.1%	3.7
Miry Run	100 year	W990	1.3	0.9	0.0	0.000	0.0	11.3	0.0	17.2%	82.8%	0.0%	0.0%	0.0%	0.0%	2.2
Miry Run	100 year	W1000	181.1	126.0	24.7	0.136	28.1	55.2	14.6	33.2%	30.7%	33.2%	2.8%	0.0%	0.0%	2.8
Miry Run	100 year	W1010	410.9	285.9	109.9	0.267	187.5	54.2	11.7	34.9%	39.4%	24.2%	1.2%	0.0%	0.3%	5.8
Miry Run	100 year	W1020	108.5	75.5	45.6	0.420	84.8	61.9	33.6	99.5%	0.5%	0.0%	0.0%	0.0%	0.0%	1.9
Miry Run	100 year	W1030	93.5	65.0	16.0	0.171	27.2	43.5	7.9	25.9%	47.6%	21.5%	5.0%	0.0%	0.0%	3.2
Miry Run	100 year	W1040	4.1	2.8	0.0	0.000	0.0	4.6	3.5	35.4%	64.6%	0.0%	0.0%	0.0%	0.0%	5.7
Miry Run	100 year	W1050	105.5	73.4	15.6	0.148	23.3	40.9	8.9	32.8%	42.4%	21.0%	3.8%	0.0%	0.0%	3.7
Miry Run	100 year	W1060	115.5	80.4	33.6	0.291	53.2	48.0	27.2	83.0%	17.0%	0.0%	0.0%	0.0%	0.0%	2.3
Miry Run	100 year	W1070	154.3	107.4	69.5	0.450	115.8	65.6	41.6	52.0%	7.5%	3.2%	2.3%	32.5%	2.5%	2.2
Miry Run	100 year	W1080	89.5	62.2	31.3	0.350	50.1	64.2	17.5	75.2%	20.5%	0.9%	3.2%	0.0%	0.1%	2.7
Miry Run	100 year	W1090	57.1	39.7	1.7	0.030	2.0	36.2	8.1	45.9%	39.2%	6.6%	8.3%	0.0%	0.0%	3.2
Miry Run	100 year	W1100	19.4	13.5	2.2	0.114	2.2	74.6	15.4	65.4%	34.6%	0.0%	0.0%	0.0%	0.0%	0.7
Miry Run	100 year	W1110	181.5	126.3	50.7	0.279	82.0	57.5	11.3	45.8%	45.3%	0.6%	6.4%	1.8%	0.1%	3.5
Miry Run	100 year	W1120	21.0	14.6	3.5	0.167	3.6	77.6	9.7	65.9%	33.8%	0.0%	0.3%	0.0%	0.0%	0.6
Miry Run	100 year	W1130	111.2	77.4	41.4	0.372	64.8	66.6	18.8	50.6%	10.4%	27.3%	11.6%	0.0%	0.0%	1.6
Miry Run	100 year	W1140	188.3	131.0	88.6	0.470	193.3	68.5	25.3	43.2%	22.4%	25.6%	5.9%	2.0%	0.9%	1.6
Miry Run	100 year	W1150	149.2	103.8	9.7	0.065	12.5	20.1	13.5	30.7%	55.9%	2.2%	11.2%	0.0%	0.0%	13.0
Miry Run	100 year	W1160	49.9	34.7	10.7	0.214	11.2	76.0	17.9	68.0%	13.1%	3.4%	15.3%	0.0%	0.1%	1.0
Miry Run	100 year	W1170	87.1	60.6	1.0	0.011	1.6	27.1	2.5	7.3%	66.9%	14.5%	11.2%	0.0%	0.0%	8.1
Miry Run	100 year	W1180	86.5	60.2	5.7	0.066	7.5	26.8	8.9	37.1%	26.7%	17.4%	15.5%	3.3%	0.1%	5.1
Miry Run	100 year	W1190	16.5	11.5	1.9	0.115	2.0	45.2	30.8	73.2%	17.7%	9.1%	0.0%	0.0%	0.0%	1.3
Miry Run	100 year	W1200	189.8	132.1	5.4	0.028	8.3	29.2	2.1	22.9%	58.1%	10.9%	7.8%	0.4%	0.0%	9.2
Miry Run	100 year	W1210	156.5	108.9	34.9	0.223	60.7	42.8	18.2	96.8%	1.8%	0.5%	0.6%	0.0%	0.4%	3.0
Miry Run	100 year	W1220	134.9	93.9	33.3	0.247	49.6	47.9	20.6	90.2%	7.2%	0.1%	0.8%	0.4%	1.3%	3.2
Miry Run	100 year	W1230	109.7	76.3	4.5	0.041	5.4	42.2	11.3	82.9%	12.1%	0.0%	4.6%	0.0%	0.5%	3.4
Miry Run	100 year	W1240	182.3	126.8	9.7	0.053	13.0	38.3	9.3	46.0%	45.3%	0.1%	7.6%	0.1%	1.0%	6.7

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	ImperVIOUS %	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Miry Run	100 year	W1250	87.3	60.7	3.8	0.044	4.8	29.0	4.1	18.5%	67.5%	6.2%	6.4%	1.3%	0.1%	5.2
Miry Run	100 year	W1260	180.6	125.6	56.2	0.311	97.7	60.1	11.5	65.3%	19.7%	5.2%	8.8%	0.1%	0.8%	2.8
Miry Run	100 year	W1270	109.9	76.5	61.4	0.559	119.6	78.7	41.9	57.9%	4.4%	16.3%	15.2%	3.7%	2.6%	2.2
Miry Run	100 year	W1280	106.6	74.2	19.5	0.183	24.8	49.3	10.9	41.2%	47.8%	2.9%	8.2%	0.0%	0.0%	2.3
Miry Run	100 year	W1290	124.5	86.6	14.3	0.115	19.6	37.1	9.9	28.9%	53.4%	4.9%	12.8%	0.0%	0.0%	5.4
Miry Run	100 year	W1300	97.4	67.8	3.6	0.037	3.9	81.1	22.8	30.5%	2.0%	60.5%	2.0%	5.0%	0.0%	1.3

## **Appendix XV. Pond Run Model Results**

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Pond Run	2 year	W460	70.1	19.3	8.6	0.123	10.7	74.4	48.4	94.7%	0.0%	0.0%	3.5%	1.8%	0.0%	4.2
Pond Run	2 year	W470	105.6	29.1	9.3	0.088	11.1	66.6	39.4	84.7%	0.0%	0.0%	5.9%	2.7%	6.7%	4.1
Pond Run	2 year	W480	59.1	16.3	5.4	0.091	5.8	71.3	52.2	87.8%	0.0%	0.0%	12.2%	0.0%	0.0%	3.0
Pond Run	2 year	W490	179.6	49.5	28.2	0.157	41.9	74.9	47.1	97.6%	0.0%	0.0%	2.4%	0.0%	0.0%	3.0
Pond Run	2 year	W500	160.4	44.2	27.1	0.169	41.5	78.2	48.2	91.2%	1.3%	0.0%	5.8%	1.7%	0.0%	2.8
Pond Run	2 year	W510	0.2	0.0	0.0	0.000	0.0	89.0	95.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3
Pond Run	2 year	W520	6.4	1.8	0.2	0.031	0.2	82.0	46.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Pond Run	2 year	W530	222.6	61.4	6.3	0.028	7.1	84.0	26.5	94.4%	2.5%	0.0%	3.1%	0.0%	0.0%	2.8
Pond Run	2 year	W540	125.1	34.5	20.0	0.160	30.4	76.2	44.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Pond Run	2 year	W550	89.9	24.8	2.4	0.027	2.5	78.0	34.8	98.4%	0.0%	0.0%	1.6%	0.0%	0.0%	2.0
Pond Run	2 year	W560	22.5	6.2	0.8	0.035	0.9	83.6	26.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3
Pond Run	2 year	W570	238.6	65.8	27.0	0.113	35.6	76.7	25.2	76.8%	12.4%	0.5%	10.3%	0.0%	0.0%	2.5
Pond Run	2 year	W580	21.0	5.8	1.5	0.071	2.0	71.6	6.6	32.7%	14.1%	45.1%	8.1%	0.0%	0.0%	1.2
Pond Run	2 year	W590	529.2	146.0	93.5	0.177	168.2	79.6	42.8	80.1%	7.3%	7.6%	4.6%	0.4%	0.1%	3.1
Pond Run	2 year	W600	248.2	68.5	28.5	0.115	37.1	77.6	36.8	98.2%	0.0%	0.0%	1.8%	0.0%	0.0%	5.1
Pond Run	2 year	W610	91.5	25.2	7.3	0.080	8.1	72.8	28.7	97.5%	0.8%	0.0%	1.4%	0.0%	0.2%	2.1
Pond Run	2 year	W620	98.4	27.1	6.3	0.064	6.5	68.7	42.8	89.0%	6.1%	0.0%	4.9%	0.0%	0.0%	1.9

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Pond Run	2 year	W630	44.6	12.3	3.5	0.079	4.0	67.4	27.5	90.6%	4.1%	0.0%	3.7%	0.0%	1.6%	2.8
Pond Run	2 year	W640	168.0	46.3	23.5	0.140	43.5	72.0	33.4	96.4%	0.3%	0.5%	2.7%	0.0%	0.0%	2.5
Pond Run	2 year	W650	155.7	43.0	27.3	0.175	42.4	82.9	42.6	86.7%	5.8%	0.0%	5.1%	2.5%	0.0%	1.7
Pond Run	2 year	W660	133.9	36.9	5.4	0.040	5.7	80.2	13.7	35.8%	49.5%	4.1%	9.7%	0.8%	0.1%	1.5
Pond Run	2 year	W670	272.7	75.2	45.2	0.166	79.5	79.2	38.0	75.5%	15.0%	3.4%	5.3%	0.8%	0.0%	2.3
Pond Run	2 year	W680	16.0	4.4	0.5	0.031	0.6	56.9	15.3	92.9%	6.5%	0.0%	0.6%	0.0%	0.0%	3.0
Pond Run	2 year	W690	109.3	30.1	3.7	0.034	4.1	79.4	9.7	19.3%	59.1%	3.9%	8.0%	8.9%	0.8%	2.1
Pond Run	2 year	W700	6.2	1.7	0.5	0.080	0.7	77.2	0.1	0.7%	99.3%	0.0%	0.0%	0.0%	0.0%	1.1
Pond Run	2 year	W710	220.1	60.7	25.8	0.117	47.8	73.4	19.4	61.0%	14.9%	10.8%	10.2%	1.7%	1.5%	2.3
Pond Run	2 year	W720	109.4	30.2	5.9	0.054	6.5	74.4	19.3	61.7%	21.2%	2.5%	14.5%	0.0%	0.1%	2.4
Pond Run	2 year	W730	198.1	54.6	22.9	0.116	34.0	70.2	28.6	95.4%	3.7%	0.0%	0.9%	0.0%	0.0%	2.1
Pond Run	2 year	W740	131.5	36.3	12.8	0.097	14.5	81.1	23.5	47.1%	41.1%	0.0%	8.4%	3.1%	0.3%	1.5
Pond Run	2 year	W750	62.5	17.2	0.8	0.013	1.0	58.4	19.8	76.4%	4.2%	0.0%	17.1%	2.3%	0.0%	5.0
Pond Run	2 year	W760	166.2	45.8	11.4	0.069	12.6	76.4	22.3	49.3%	23.3%	3.3%	8.2%	15.6%	0.3%	2.2
Pond Run	2 year	W770	95.8	26.4	5.4	0.056	5.9	74.3	12.4	24.1%	63.8%	0.0%	11.1%	0.0%	0.9%	1.6
Pond Run	2 year	W780	88.8	24.5	8.0	0.090	13.2	71.5	10.0	41.6%	23.4%	0.0%	13.6%	21.4%	0.0%	1.8
Pond Run	2 year	W790	43.0	11.9	4.7	0.109	5.4	81.0	26.2	51.9%	44.5%	0.0%	2.9%	0.0%	0.7%	1.0

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Pond Run	2 year	W800	254.7	70.3	42.2	0.166	69.0	76.4	45.2	83.5%	4.5%	0.0%	11.8%	0.0%	0.1%	1.9
Pond Run	2 year	W810	68.3	18.8	2.7	0.040	2.7	75.3	26.2	94.1%	3.8%	0.0%	2.1%	0.0%	0.0%	1.2
Pond Run	2 year	W820	141.7	39.1	9.1	0.064	9.6	67.9	27.4	59.9%	22.1%	0.0%	10.1%	2.8%	5.2%	1.5
Pond Run	2 year	W830	56.4	15.6	6.6	0.117	8.7	76.8	22.5	68.6%	11.5%	0.0%	19.9%	0.0%	0.0%	1.3
Pond Run	2 year	W840	111.3	30.7	6.4	0.058	6.7	76.5	22.1	50.3%	43.2%	0.0%	6.5%	0.0%	0.0%	1.4
Pond Run	2 year	W850	85.1	23.5	5.5	0.065	6.8	72.0	4.7	30.2%	16.2%	6.2%	45.5%	0.0%	1.9%	1.4
Pond Run	2 year	W860	14.7	4.1	1.1	0.075	1.5	70.4	6.3	41.5%	24.8%	14.3%	15.2%	0.0%	4.1%	0.8
Pond Run	2 year	W870	16.2	4.5	0.0	0.000	0.0	37.0	0.0	12.2%	25.1%	0.0%	24.5%	0.0%	38.1%	1.4
Pond Run	2 year	W880	89.6	24.7	5.5	0.061	8.1	52.9	19.1	71.2%	12.7%	0.0%	13.6%	2.6%	0.0%	1.8
Pond Run	2 year	W890	127.4	35.1	9.7	0.076	15.2	65.3	13.2	35.2%	31.7%	16.5%	16.3%	0.0%	0.3%	1.7
Pond Run	2 year	W900	283.7	78.2	32.8	0.116	48.8	76.6	18.4	68.4%	17.7%	7.5%	6.2%	0.0%	0.2%	2.4
Pond Run	10 year	W460	70.1	29.3	14.4	0.205	18.2	74.4	48.4	94.7%	0.0%	0.0%	3.5%	1.8%	0.0%	4.2
Pond Run	10 year	W470	105.6	44.2	16.3	0.154	19.7	66.6	39.4	84.7%	0.0%	0.0%	5.9%	2.7%	6.7%	4.1
Pond Run	10 year	W480	59.1	24.7	8.9	0.151	9.8	71.3	52.2	87.8%	0.0%	0.0%	12.2%	0.0%	0.0%	3.0
Pond Run	10 year	W490	179.6	75.1	47.5	0.265	71.9	74.9	47.1	97.6%	0.0%	0.0%	2.4%	0.0%	0.0%	3.0
Pond Run	10 year	W500	160.4	67.1	45.2	0.282	70.4	78.2	48.2	91.2%	1.3%	0.0%	5.8%	1.7%	0.0%	2.8
Pond Run	10 year	W510	0.2	0.1	0.0	0.000	0.0	89.0	95.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Pond Run	10 year	W520	6.4	2.7	0.3	0.047	0.4	82.0	46.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Pond Run	10 year	W530	222.6	93.1	11.0	0.049	12.2	84.0	26.5	94.4%	2.5%	0.0%	3.1%	0.0%	0.0%	2.8
Pond Run	10 year	W540	125.1	52.3	33.9	0.271	52.7	76.2	44.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Pond Run	10 year	W550	89.9	37.6	4.1	0.046	4.4	78.0	34.8	98.4%	0.0%	0.0%	1.6%	0.0%	0.0%	2.0
Pond Run	10 year	W560	22.5	9.4	1.5	0.067	1.5	83.6	26.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3
Pond Run	10 year	W570	238.6	99.8	49.0	0.205	65.9	76.7	25.2	76.8%	12.4%	0.5%	10.3%	0.0%	0.0%	2.5
Pond Run	10 year	W580	21.0	8.8	3.3	0.157	4.4	71.6	6.6	32.7%	14.1%	45.1%	8.1%	0.0%	0.0%	1.2
Pond Run	10 year	W590	529.2	221.4	158.1	0.299	287.9	79.6	42.8	80.1%	7.3%	7.6%	4.6%	0.4%	0.1%	3.1
Pond Run	10 year	W600	248.2	103.8	49.5	0.199	65.0	77.6	36.8	98.2%	0.0%	0.0%	1.8%	0.0%	0.0%	5.1
Pond Run	10 year	W610	91.5	38.3	13.2	0.144	14.9	72.8	28.7	97.5%	0.8%	0.0%	1.4%	0.0%	0.2%	2.1
Pond Run	10 year	W620	98.4	41.2	10.8	0.110	11.3	68.7	42.8	89.0%	6.1%	0.0%	4.9%	0.0%	0.0%	1.9
Pond Run	10 year	W630	44.6	18.6	6.4	0.144	7.7	67.4	27.5	90.6%	4.1%	0.0%	3.7%	0.0%	1.6%	2.8
Pond Run	10 year	W640	168.0	70.3	42.1	0.251	80.0	72.0	33.4	96.4%	0.3%	0.5%	2.7%	0.0%	0.0%	2.5
Pond Run	10 year	W650	155.7	65.2	45.7	0.293	71.7	82.9	42.6	86.7%	5.8%	0.0%	5.1%	2.5%	0.0%	1.7
Pond Run	10 year	W660	133.9	56.0	10.0	0.075	10.6	80.2	13.7	35.8%	49.5%	4.1%	9.7%	0.8%	0.1%	1.5
Pond Run	10 year	W670	272.7	114.1	77.6	0.285	138.7	79.2	38.0	75.5%	15.0%	3.4%	5.3%	0.8%	0.0%	2.3
Pond Run	10 year	W680	16.0	6.7	1.1	0.069	1.2	56.9	15.3	92.9%	6.5%	0.0%	0.6%	0.0%	0.0%	3.0

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Pond Run	10 year	W690	109.3	45.7	7.1	0.065	7.8	79.4	9.7	19.3%	59.1%	3.9%	8.0%	8.9%	0.8%	2.1
Pond Run	10 year	W700	6.2	2.6	1.1	0.177	1.5	77.2	0.1	0.7%	99.3%	0.0%	0.0%	0.0%	0.0%	1.1
Pond Run	10 year	W710	220.1	92.1	49.2	0.224	94.5	73.4	19.4	61.0%	14.9%	10.8%	10.2%	1.7%	1.5%	2.3
Pond Run	10 year	W720	109.4	45.8	11.2	0.102	12.4	74.4	19.3	61.7%	21.2%	2.5%	14.5%	0.0%	0.1%	2.4
Pond Run	10 year	W730	198.1	82.9	42.0	0.212	64.6	70.2	28.6	95.4%	3.7%	0.0%	0.9%	0.0%	0.0%	2.1
Pond Run	10 year	W740	131.5	55.0	22.9	0.174	26.0	81.1	23.5	47.1%	41.1%	0.0%	8.4%	3.1%	0.3%	1.5
Pond Run	10 year	W750	62.5	26.1	1.6	0.026	2.0	58.4	19.8	76.4%	4.2%	0.0%	17.1%	2.3%	0.0%	5.0
Pond Run	10 year	W760	166.2	69.5	21.0	0.126	23.4	76.4	22.3	49.3%	23.3%	3.3%	8.2%	15.6%	0.3%	2.2
Pond Run	10 year	W770	95.8	40.1	10.7	0.112	11.8	74.3	12.4	24.1%	63.8%	0.0%	11.1%	0.0%	0.9%	1.6
Pond Run	10 year	W780	88.8	37.1	16.4	0.185	28.6	71.5	10.0	41.6%	23.4%	0.0%	13.6%	21.4%	0.0%	1.8
Pond Run	10 year	W790	43.0	18.0	8.3	0.193	9.6	81.0	26.2	51.9%	44.5%	0.0%	2.9%	0.0%	0.7%	1.0
Pond Run	10 year	W800	254.7	106.6	71.4	0.280	118.9	76.4	45.2	83.5%	4.5%	0.0%	11.8%	0.0%	0.1%	1.9
Pond Run	10 year	W810	68.3	28.6	4.8	0.070	5.0	75.3	26.2	94.1%	3.8%	0.0%	2.1%	0.0%	0.0%	1.2
Pond Run	10 year	W820	141.7	59.3	16.8	0.119	18.1	67.9	27.4	59.9%	22.1%	0.0%	10.1%	2.8%	5.2%	1.5
Pond Run	10 year	W830	56.4	23.6	12.0	0.213	16.4	76.8	22.5	68.6%	11.5%	0.0%	19.9%	0.0%	0.0%	1.3
Pond Run	10 year	W840	111.3	46.5	11.7	0.105	12.4	76.5	22.1	50.3%	43.2%	0.0%	6.5%	0.0%	0.0%	1.4
Pond Run	10 year	W850	85.1	35.6	11.9	0.140	15.1	72.0	4.7	30.2%	16.2%	6.2%	45.5%	0.0%	1.9%	1.4

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Pond Run	10 year	W860	14.7	6.2	2.4	0.163	3.5	70.4	6.3	41.5%	24.8%	14.3%	15.2%	0.0%	4.1%	0.8
Pond Run	10 year	W870	16.2	6.8	0.0	0.000	0.0	37.0	0.0	12.2%	25.1%	0.0%	24.5%	0.0%	38.1%	1.4
Pond Run	10 year	W880	89.6	37.5	11.1	0.124	17.0	52.9	19.1	71.2%	12.7%	0.0%	13.6%	2.6%	0.0%	1.8
Pond Run	10 year	W890	127.4	53.3	20.4	0.160	34.2	65.3	13.2	35.2%	31.7%	16.5%	16.3%	0.0%	0.3%	1.7
Pond Run	10 year	W900	283.7	118.7	61.3	0.216	93.8	76.6	18.4	68.4%	17.7%	7.5%	6.2%	0.0%	0.2%	2.4
Pond Run	100 year	W460	70.1	48.8	26.7	0.381	34.0	74.4	48.4	94.7%	0.0%	0.0%	3.5%	1.8%	0.0%	4.2
Pond Run	100 year	W470	105.6	73.5	31.6	0.299	38.9	66.6	39.4	84.7%	0.0%	0.0%	5.9%	2.7%	6.7%	4.1
Pond Run	100 year	W480	59.1	41.1	16.4	0.278	18.2	71.3	52.2	87.8%	0.0%	0.0%	12.2%	0.0%	0.0%	3.0
Pond Run	100 year	W490	179.6	124.9	88.0	0.490	134.6	74.9	47.1	97.6%	0.0%	0.0%	2.4%	0.0%	0.0%	3.0
Pond Run	100 year	W500	160.4	111.6	82.7	0.516	129.8	78.2	48.2	91.2%	1.3%	0.0%	5.8%	1.7%	0.0%	2.8
Pond Run	100 year	W510	0.2	0.1	0.0	0.000	0.0	89.0	95.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3
Pond Run	100 year	W520	6.4	4.4	0.6	0.094	0.6	82.0	46.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Pond Run	100 year	W530	222.6	154.9	20.7	0.093	22.7	84.0	26.5	94.4%	2.5%	0.0%	3.1%	0.0%	0.0%	2.8
Pond Run	100 year	W540	125.1	87.1	62.9	0.503	99.4	76.2	44.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Pond Run	100 year	W550	89.9	62.6	7.8	0.087	8.3	78.0	34.8	98.4%	0.0%	0.0%	1.6%	0.0%	0.0%	2.0
Pond Run	100 year	W560	22.5	15.7	2.8	0.124	2.8	83.6	26.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3
Pond Run	100 year	W570	238.6	166.0	96.2	0.403	131.1	76.7	25.2	76.8%	12.4%	0.5%	10.3%	0.0%	0.0%	2.5

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Pond Run	100 year	W580	21.0	14.6	7.3	0.347	10.1	71.6	6.6	32.7%	14.1%	45.1%	8.1%	0.0%	0.0%	1.2
Pond Run	100 year	W590	529.2	368.3	291.4	0.551	533.3	79.6	42.8	80.1%	7.3%	7.6%	4.6%	0.4%	0.1%	3.1
Pond Run	100 year	W600	248.2	172.7	93.5	0.377	123.5	77.6	36.8	98.2%	0.0%	0.0%	1.8%	0.0%	0.0%	5.1
Pond Run	100 year	W610	91.5	63.7	26.2	0.286	29.7	72.8	28.7	97.5%	0.8%	0.0%	1.4%	0.0%	0.2%	2.1
Pond Run	100 year	W620	98.4	68.5	20.6	0.209	21.7	68.7	42.8	89.0%	6.1%	0.0%	4.9%	0.0%	0.0%	1.9
Pond Run	100 year	W630	44.6	31.0	13.1	0.294	16.0	67.4	27.5	90.6%	4.1%	0.0%	3.7%	0.0%	1.6%	2.8
Pond Run	100 year	W640	168.0	116.9	82.4	0.491	159.1	72.0	33.4	96.4%	0.3%	0.5%	2.7%	0.0%	0.0%	2.5
Pond Run	100 year	W650	155.7	108.4	82.9	0.532	130.9	82.9	42.6	86.7%	5.8%	0.0%	5.1%	2.5%	0.0%	1.7
Pond Run	100 year	W660	133.9	93.2	20.0	0.149	21.0	80.2	13.7	35.8%	49.5%	4.1%	9.7%	0.8%	0.1%	1.5
Pond Run	100 year	W670	272.7	189.8	144.7	0.531	260.7	79.2	38.0	75.5%	15.0%	3.4%	5.3%	0.8%	0.0%	2.3
Pond Run	100 year	W680	16.0	11.2	2.6	0.162	3.0	56.9	15.3	92.9%	6.5%	0.0%	0.6%	0.0%	0.0%	3.0
Pond Run	100 year	W690	109.3	76.0	14.4	0.132	15.6	79.4	9.7	19.3%	59.1%	3.9%	8.0%	8.9%	0.8%	2.1
Pond Run	100 year	W700	6.2	4.3	2.3	0.369	3.2	77.2	0.1	0.7%	99.3%	0.0%	0.0%	0.0%	0.0%	1.1
Pond Run	100 year	W710	220.1	153.1	101.0	0.459	197.2	73.4	19.4	61.0%	14.9%	10.8%	10.2%	1.7%	1.5%	2.3
Pond Run	100 year	W720	109.4	76.1	22.8	0.208	25.3	74.4	19.3	61.7%	21.2%	2.5%	14.5%	0.0%	0.1%	2.4
Pond Run	100 year	W730	198.1	137.9	84.2	0.425	133.0	70.2	28.6	95.4%	3.7%	0.0%	0.9%	0.0%	0.0%	2.1
Pond Run	100 year	W740	131.5	91.5	43.9	0.334	50.0	81.1	23.5	47.1%	41.1%	0.0%	8.4%	3.1%	0.3%	1.5

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Pond Run	100 year	W750	62.5	43.5	3.6	0.058	4.5	58.4	19.8	76.4%	4.2%	0.0%	17.1%	2.3%	0.0%	5.0
Pond Run	100 year	W760	166.2	115.6	41.9	0.252	46.6	76.4	22.3	49.3%	23.3%	3.3%	8.2%	15.6%	0.3%	2.2
Pond Run	100 year	W770	95.8	66.7	22.5	0.235	24.9	74.3	12.4	24.1%	63.8%	0.0%	11.1%	0.0%	0.9%	1.6
Pond Run	100 year	W780	88.8	61.8	35.7	0.402	64.1	71.5	10.0	41.6%	23.4%	0.0%	13.6%	21.4%	0.0%	1.8
Pond Run	100 year	W790	43.0	30.0	15.9	0.369	18.4	81.0	26.2	51.9%	44.5%	0.0%	2.9%	0.0%	0.7%	1.0
Pond Run	100 year	W800	254.7	177.3	132.1	0.519	223.0	76.4	45.2	83.5%	4.5%	0.0%	11.8%	0.0%	0.1%	1.9
Pond Run	100 year	W810	68.3	47.5	9.5	0.139	9.8	75.3	26.2	94.1%	3.8%	0.0%	2.1%	0.0%	0.0%	1.2
Pond Run	100 year	W820	141.7	98.6	34.4	0.243	37.5	67.9	27.4	59.9%	22.1%	0.0%	10.1%	2.8%	5.2%	1.5
Pond Run	100 year	W830	56.4	39.3	23.7	0.420	33.0	76.8	22.5	68.6%	11.5%	0.0%	19.9%	0.0%	0.0%	1.3
Pond Run	100 year	W840	111.3	77.4	23.3	0.209	24.6	76.5	22.1	50.3%	43.2%	0.0%	6.5%	0.0%	0.0%	1.4
Pond Run	100 year	W850	85.1	59.2	26.8	0.315	34.6	72.0	4.7	30.2%	16.2%	6.2%	45.5%	0.0%	1.9%	1.4
Pond Run	100 year	W860	14.7	10.2	5.3	0.360	8.1	70.4	6.3	41.5%	24.8%	14.3%	15.2%	0.0%	4.1%	0.8
Pond Run	100 year	W870	16.2	11.3	0.3	0.019	0.4	37.0	0.0	12.2%	25.1%	0.0%	24.5%	0.0%	38.1%	1.4
Pond Run	100 year	W880	89.6	62.3	25.8	0.288	42.6	52.9	19.1	71.2%	12.7%	0.0%	13.6%	2.6%	0.0%	1.8
Pond Run	100 year	W890	127.4	88.6	46.0	0.361	80.9	65.3	13.2	35.2%	31.7%	16.5%	16.3%	0.0%	0.3%	1.7
Pond Run	100 year	W900	283.7	197.4	123.0	0.434	191.4	76.6	18.4	68.4%	17.7%	7.5%	6.2%	0.0%	0.2%	2.4

## **Appendix XVI. Shady Brook Model Results**

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Shady Brook	2 year	W560	63.2	17.4	5.8	0.092	6.0	88.6	28.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	2 year	W570	34.6	9.5	9.0	0.260	19.8	91.5	54.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1
Shady Brook	2 year	W580	51.2	14.1	4.7	0.092	4.8	92.2	53.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9
Shady Brook	2 year	W590	49.7	13.7	0.8	0.016	0.8	92.3	65.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9
Shady Brook	2 year	W600	48.0	13.3	3.4	0.071	4.0	69.5	14.9	99.7%	0.0%	0.0%	0.3%	0.0%	0.0%	2.1
Shady Brook	2 year	W610	36.3	10.0	4.8	0.132	6.6	77.2	32.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1
Shady Brook	2 year	W620	139.5	38.5	22.4	0.161	43.2	78.5	32.0	87.0%	6.4%	0.0%	6.6%	0.0%	0.0%	1.5
Shady Brook	2 year	W630	90.8	25.0	15.0	0.165	22.2	78.3	47.1	91.1%	0.0%	0.0%	7.6%	1.4%	0.0%	1.8
Shady Brook	2 year	W640	28.3	7.8	1.3	0.046	1.4	72.8	9.7	83.1%	0.0%	0.0%	16.9%	0.0%	0.0%	1.3
Shady Brook	2 year	W650	13.2	3.6	3.2	0.242	6.8	90.8	46.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3
Shady Brook	2 year	W660	10.1	2.8	2.1	0.208	3.8	86.6	46.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0
Shady Brook	2 year	W670	20.5	5.7	1.2	0.058	1.2	83.9	18.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5
Shady Brook	2 year	W680	35.3	9.7	0.4	0.011	0.4	91.8	59.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	2 year	W690	31.3	8.6	0.1	0.003	0.1	75.2	33.8	99.0%	0.0%	0.0%	1.0%	0.0%	0.0%	1.5
Shady Brook	2 year	W700	18.1	5.0	1.4	0.077	1.7	70.8	20.0	86.1%	0.0%	0.0%	13.9%	0.0%	0.0%	2.4
Shady Brook	2 year	W710	14.9	4.1	0.7	0.047	0.8	76.9	27.4	92.7%	0.0%	0.0%	7.3%	0.0%	0.0%	1.5
Shady Brook	2 year	W720	20.8	5.7	1.2	0.058	1.2	78.6	37.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Shady Brook	2 year	W730	23.7	6.5	0.7	0.030	0.7	54.1	22.6	81.9%	0.0%	0.0%	18.1%	0.0%	0.0%	2.9
Shady Brook	2 year	W740	43.0	11.9	12.4	0.288	28.4	93.3	72.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	2 year	W750	74.0	20.4	6.1	0.082	6.3	82.9	62.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0
Shady Brook	2 year	W760	83.3	23.0	10.6	0.127	19.5	63.2	36.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	2 year	W770	13.1	3.6	0.6	0.046	0.7	56.7	29.7	98.2%	0.0%	0.0%	1.8%	0.0%	0.0%	2.5
Shady Brook	2 year	W780	23.0	6.3	1.7	0.074	1.9	69.8	29.5	64.9%	25.1%	0.0%	9.6%	0.0%	0.4%	1.5
Shady Brook	2 year	W790	3.8	1.0	0.2	0.053	0.2	57.2	30.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	2 year	W800	15.3	4.2	1.2	0.079	1.5	56.9	28.5	98.6%	0.0%	0.0%	1.4%	0.0%	0.0%	3.1
Shady Brook	2 year	W810	24.4	6.7	2.4	0.098	2.8	70.5	34.8	99.9%	0.0%	0.0%	0.1%	0.0%	0.0%	2.1
Shady Brook	2 year	W820	30.1	8.3	5.0	0.166	7.0	82.3	45.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7
Shady Brook	2 year	W830	21.5	5.9	1.9	0.089	2.0	81.2	52.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7
Shady Brook	2 year	W840	60.6	16.7	3.6	0.059	3.9	69.7	21.0	69.3%	24.2%	0.0%	3.1%	0.0%	3.4%	1.5
Shady Brook	2 year	W850	0.2	0.1	0.0	0.000	0.0	57.0	30.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9
Shady Brook	2 year	W860	13.3	3.7	2.1	0.158	2.6	75.4	56.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5
Shady Brook	2 year	W870	3.4	0.9	0.9	0.268	2.3	93.1	37.0	72.9%	27.1%	0.0%	0.0%	0.0%	0.0%	0.2
Shady Brook	2 year	W880	19.1	5.3	1.9	0.100	2.1	64.2	44.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	2 year	W890	36.6	10.1	3.4	0.093	3.7	74.4	33.3	68.6%	20.2%	0.0%	11.2%	0.0%	0.0%	1.0

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Shady Brook	2 year	W900	21.2	5.8	3.4	0.160	4.1	83.8	61.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	2 year	W910	33.5	9.2	5.5	0.164	8.2	80.8	41.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	2 year	W920	63.8	17.6	9.5	0.149	16.6	75.7	33.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	2 year	W930	0.9	0.2	0.0	0.000	0.0	57.0	35.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7
Shady Brook	2 year	W940	34.7	9.6	2.9	0.084	3.3	65.9	33.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	2 year	W950	26.4	7.3	4.6	0.174	6.3	78.9	55.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	2 year	W960	34.5	9.5	5.8	0.168	8.4	77.4	50.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2
Shady Brook	2 year	W970	27.4	7.5	2.3	0.084	2.6	61.4	33.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	2 year	W980	20.2	5.6	3.3	0.163	6.6	77.0	35.0	97.9%	2.1%	0.0%	0.0%	0.0%	0.0%	0.7
Shady Brook	2 year	W990	24.4	6.7	4.3	0.176	6.6	84.6	36.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6
Shady Brook	2 year	W1000	29.2	8.1	4.5	0.154	4.9	92.1	60.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	2 year	W1010	20.9	5.8	4.3	0.205	6.0	91.0	61.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	2 year	W1020	14.3	3.9	2.5	0.175	3.3	87.3	47.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6
Shady Brook	2 year	W1030	38.6	10.6	6.3	0.163	7.5	89.9	40.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	2 year	W1040	34.3	9.5	6.4	0.186	9.6	89.7	32.1	99.4%	0.0%	0.0%	0.6%	0.0%	0.0%	0.9
Shady Brook	2 year	W1050	120.3	33.2	21.3	0.177	42.0	81.0	35.1	93.4%	5.6%	0.0%	1.0%	0.0%	0.0%	1.2
Shady Brook	2 year	W1060	41.7	11.5	9.1	0.218	16.2	91.5	41.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Shady Brook	2 year	W1070	54.4	15.0	8.7	0.160	12.6	81.5	38.3	99.3%	0.0%	0.0%	0.5%	0.2%	0.0%	2.2
Shady Brook	2 year	W1080	3.2	0.9	0.3	0.094	0.4	69.9	16.7	56.4%	0.0%	0.0%	43.6%	0.0%	0.0%	0.5
Shady Brook	2 year	W1090	20.2	5.6	2.5	0.124	2.6	91.4	47.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	2 year	W1100	32.2	8.9	7.3	0.227	11.4	91.0	68.5	99.7%	0.0%	0.0%	0.3%	0.0%	0.0%	1.3
Shady Brook	10 year	W560	63.2	26.5	9.7	0.153	10.1	88.6	28.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	10 year	W570	34.6	14.5	14.2	0.411	31.2	91.5	54.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1
Shady Brook	10 year	W580	51.2	21.4	7.4	0.144	7.7	92.2	53.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9
Shady Brook	10 year	W590	49.7	20.8	1.2	0.024	1.3	92.3	65.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9
Shady Brook	10 year	W600	48.0	20.1	6.8	0.142	8.4	69.5	14.9	99.7%	0.0%	0.0%	0.3%	0.0%	0.0%	2.1
Shady Brook	10 year	W610	36.3	15.2	8.5	0.234	11.9	77.2	32.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1
Shady Brook	10 year	W620	139.5	58.4	39.4	0.282	77.7	78.5	32.0	87.0%	6.4%	0.0%	6.6%	0.0%	0.0%	1.5
Shady Brook	10 year	W630	90.8	38.0	25.2	0.278	37.7	78.3	47.1	91.1%	0.0%	0.0%	7.6%	1.4%	0.0%	1.8
Shady Brook	10 year	W640	28.3	11.8	2.6	0.092	2.8	72.8	9.7	83.1%	0.0%	0.0%	16.9%	0.0%	0.0%	1.3
Shady Brook	10 year	W650	13.2	5.5	5.1	0.386	11.0	90.8	46.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3
Shady Brook	10 year	W660	10.1	4.2	3.4	0.336	6.2	86.6	46.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0
Shady Brook	10 year	W670	20.5	8.6	2.1	0.102	2.1	83.9	18.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5
Shady Brook	10 year	W680	35.3	14.7	0.6	0.017	0.7	91.8	59.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Shady Brook	10 year	W690	31.3	13.1	0.2	0.006	0.2	75.2	33.8	99.0%	0.0%	0.0%	1.0%	0.0%	0.0%	1.5
Shady Brook	10 year	W700	18.1	7.6	2.7	0.149	3.3	70.8	20.0	86.1%	0.0%	0.0%	13.9%	0.0%	0.0%	2.4
Shady Brook	10 year	W710	14.9	6.2	1.3	0.087	1.4	76.9	27.4	92.7%	0.0%	0.0%	7.3%	0.0%	0.0%	1.5
Shady Brook	10 year	W720	20.8	8.7	2.0	0.096	2.1	78.6	37.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0
Shady Brook	10 year	W730	23.7	9.9	1.3	0.055	1.4	54.1	22.6	81.9%	0.0%	0.0%	18.1%	0.0%	0.0%	2.9
Shady Brook	10 year	W740	43.0	18.0	19.3	0.448	43.8	93.3	72.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	10 year	W750	74.0	31.0	9.8	0.132	10.1	82.9	62.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0
Shady Brook	10 year	W760	83.3	34.9	18.9	0.227	35.9	63.2	36.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	10 year	W770	13.1	5.5	1.2	0.092	1.2	56.7	29.7	98.2%	0.0%	0.0%	1.8%	0.0%	0.0%	2.5
Shady Brook	10 year	W780	23.0	9.6	3.2	0.139	3.5	69.8	29.5	64.9%	25.1%	0.0%	9.6%	0.0%	0.4%	1.5
Shady Brook	10 year	W790	3.8	1.6	0.4	0.106	0.4	57.2	30.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	10 year	W800	15.3	6.4	2.2	0.144	2.8	56.9	28.5	98.6%	0.0%	0.0%	1.4%	0.0%	0.0%	3.1
Shady Brook	10 year	W810	24.4	10.2	4.3	0.176	5.1	70.5	34.8	99.9%	0.0%	0.0%	0.1%	0.0%	0.0%	2.1
Shady Brook	10 year	W820	30.1	12.6	8.4	0.279	11.8	82.3	45.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7
Shady Brook	10 year	W830	21.5	9.0	3.2	0.149	3.3	81.2	52.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7
Shady Brook	10 year	W840	60.6	25.4	6.9	0.114	7.5	69.7	21.0	69.3%	24.2%	0.0%	3.1%	0.0%	3.4%	1.5
Shady Brook	10 year	W850	0.2	0.1	0.0	0.000	0.0	57.0	30.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Shady Brook	10 year	W860	13.3	5.6	3.4	0.256	4.3	75.4	56.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5
Shady Brook	10 year	W870	3.4	1.4	1.5	0.446	3.7	93.1	37.0	72.9%	27.1%	0.0%	0.0%	0.0%	0.0%	0.2
Shady Brook	10 year	W880	19.1	8.0	3.3	0.173	3.7	64.2	44.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	10 year	W890	36.6	15.3	6.0	0.164	6.6	74.4	33.3	68.6%	20.2%	0.0%	11.2%	0.0%	0.0%	1.0
Shady Brook	10 year	W900	21.2	8.9	5.5	0.260	6.6	83.8	61.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	10 year	W910	33.5	14.0	9.3	0.278	14.0	80.8	41.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	10 year	W920	63.8	26.7	16.7	0.262	30.1	75.7	33.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	10 year	W930	0.9	0.4	0.1	0.116	0.1	57.0	35.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7
Shady Brook	10 year	W940	34.7	14.5	5.3	0.153	6.1	65.9	33.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	10 year	W950	26.4	11.1	7.5	0.284	10.4	78.9	55.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	10 year	W960	34.5	14.4	9.6	0.278	14.2	77.4	50.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2
Shady Brook	10 year	W970	27.4	11.5	4.1	0.150	4.8	61.4	33.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	10 year	W980	20.2	8.5	5.8	0.287	11.9	77.0	35.0	97.9%	2.1%	0.0%	0.0%	0.0%	0.0%	0.7
Shady Brook	10 year	W990	24.4	10.2	7.2	0.295	11.2	84.6	36.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6
Shady Brook	10 year	W1000	29.2	12.2	7.1	0.243	7.6	92.1	60.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	10 year	W1010	20.9	8.8	6.8	0.325	9.5	91.0	61.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	10 year	W1020	14.3	6.0	4.1	0.287	5.4	87.3	47.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Shady Brook	10 year	W1030	38.6	16.1	10.2	0.264	12.2	89.9	40.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	10 year	W1040	34.3	14.4	10.6	0.309	15.9	89.7	32.1	99.4%	0.0%	0.0%	0.6%	0.0%	0.0%	0.9
Shady Brook	10 year	W1050	120.3	50.3	36.7	0.305	73.5	81.0	35.1	93.4%	5.6%	0.0%	1.0%	0.0%	0.0%	1.2
Shady Brook	10 year	W1060	41.7	17.4	14.6	0.350	26.0	91.5	41.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7
Shady Brook	10 year	W1070	54.4	22.8	14.7	0.270	21.8	81.5	38.3	99.3%	0.0%	0.0%	0.5%	0.2%	0.0%	2.2
Shady Brook	10 year	W1080	3.2	1.3	0.6	0.188	0.8	69.9	16.7	56.4%	0.0%	0.0%	43.6%	0.0%	0.0%	0.5
Shady Brook	10 year	W1090	20.2	8.4	4.0	0.198	4.2	91.4	47.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	10 year	W1100	32.2	13.5	11.4	0.354	17.9	91.0	68.5	99.7%	0.0%	0.0%	0.3%	0.0%	0.0%	1.3
Shady Brook	100 year	W560	63.2	44.0	17.5	0.277	18.1	88.6	28.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	100 year	W570	34.6	24.1	24.5	0.709	53.5	91.5	54.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1
Shady Brook	100 year	W580	51.2	35.6	12.8	0.250	13.2	92.2	53.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9
Shady Brook	100 year	W590	49.7	34.6	2.1	0.042	2.2	92.3	65.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9
Shady Brook	100 year	W600	48.0	33.4	14.7	0.306	18.5	69.5	14.9	99.7%	0.0%	0.0%	0.3%	0.0%	0.0%	2.1
Shady Brook	100 year	W610	36.3	25.3	16.2	0.446	23.0	77.2	32.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1
Shady Brook	100 year	W620	139.5	97.1	75.2	0.539	149.5	78.5	32.0	87.0%	6.4%	0.0%	6.6%	0.0%	0.0%	1.5
Shady Brook	100 year	W630	90.8	63.2	46.1	0.508	69.8	78.3	47.1	91.1%	0.0%	0.0%	7.6%	1.4%	0.0%	1.8
Shady Brook	100 year	W640	28.3	19.7	5.7	0.202	6.1	72.8	9.7	83.1%	0.0%	0.0%	16.9%	0.0%	0.0%	1.3

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Shady Brook	100 year	W650	13.2	9.2	9.0	0.682	19.0	90.8	46.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3
Shady Brook	100 year	W660	10.1	7.0	6.0	0.593	11.1	86.6	46.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0
Shady Brook	100 year	W670	20.5	14.3	3.9	0.190	3.9	83.9	18.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5
Shady Brook	100 year	W680	35.3	24.5	1.1	0.031	1.1	91.8	59.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	100 year	W690	31.3	21.8	0.4	0.013	0.5	75.2	33.8	99.0%	0.0%	0.0%	1.0%	0.0%	0.0%	1.5
Shady Brook	100 year	W700	18.1	12.6	5.6	0.309	7.0	70.8	20.0	86.1%	0.0%	0.0%	13.9%	0.0%	0.0%	2.4
Shady Brook	100 year	W710	14.9	10.4	2.6	0.174	2.7	76.9	27.4	92.7%	0.0%	0.0%	7.3%	0.0%	0.0%	1.5
Shady Brook	100 year	W720	20.8	14.5	3.8	0.183	4.0	78.6	37.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0
Shady Brook	100 year	W730	23.7	16.5	2.9	0.122	3.3	54.1	22.6	81.9%	0.0%	0.0%	18.1%	0.0%	0.0%	2.9
Shady Brook	100 year	W740	43.0	30.0	32.6	0.757	73.7	93.3	72.4	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	100 year	W750	74.0	51.5	17.2	0.232	17.7	82.9	62.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0
Shady Brook	100 year	W760	83.3	58.0	37.7	0.452	74.0	63.2	36.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	100 year	W770	13.1	9.1	2.4	0.183	2.7	56.7	29.7	98.2%	0.0%	0.0%	1.8%	0.0%	0.0%	2.5
Shady Brook	100 year	W780	23.0	16.0	6.4	0.279	7.1	69.8	29.5	64.9%	25.1%	0.0%	9.6%	0.0%	0.4%	1.5
Shady Brook	100 year	W790	3.8	2.6	0.7	0.185	0.8	57.2	30.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	100 year	W800	15.3	10.6	4.6	0.301	6.1	56.9	28.5	98.6%	0.0%	0.0%	1.4%	0.0%	0.0%	3.1
Shady Brook	100 year	W810	24.4	17.0	8.4	0.344	10.2	70.5	34.8	99.9%	0.0%	0.0%	0.1%	0.0%	0.0%	2.1

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Shady Brook	100 year	W820	30.1	21.0	15.1	0.501	21.5	82.3	45.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7
Shady Brook	100 year	W830	21.5	14.9	5.8	0.270	6.0	81.2	52.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7
Shady Brook	100 year	W840	60.6	42.2	14.5	0.239	15.9	69.7	21.0	69.3%	24.2%	0.0%	3.1%	0.0%	3.4%	1.5
Shady Brook	100 year	W850	0.2	0.2	0.0	0.000	0.0	57.0	30.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9
Shady Brook	100 year	W860	13.3	9.3	6.1	0.459	7.9	75.4	56.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5
Shady Brook	100 year	W870	3.4	2.3	2.6	0.773	6.4	93.1	37.0	72.9%	27.1%	0.0%	0.0%	0.0%	0.0%	0.2
Shady Brook	100 year	W880	19.1	13.3	6.2	0.325	7.2	64.2	44.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	100 year	W890	36.6	25.5	11.7	0.320	13.0	74.4	33.3	68.6%	20.2%	0.0%	11.2%	0.0%	0.0%	1.0
Shady Brook	100 year	W900	21.2	14.7	9.7	0.458	11.6	83.8	61.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	100 year	W910	33.5	23.3	17.1	0.510	26.0	80.8	41.7	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6
Shady Brook	100 year	W920	63.8	44.4	32.1	0.503	58.8	75.7	33.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	100 year	W930	0.9	0.6	0.2	0.231	0.2	57.0	35.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7
Shady Brook	100 year	W940	34.7	24.1	10.6	0.306	12.4	65.9	33.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8
Shady Brook	100 year	W950	26.4	18.4	13.4	0.507	18.7	78.9	55.9	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	100 year	W960	34.5	24.0	17.5	0.507	26.2	77.4	50.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2
Shady Brook	100 year	W970	27.4	19.0	8.4	0.307	10.0	61.4	33.1	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4
Shady Brook	100 year	W980	20.2	14.1	11.1	0.549	22.9	77.0	35.0	97.9%	2.1%	0.0%	0.0%	0.0%	0.0%	0.7

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Shady Brook	100 year	W990	24.4	17.0	13.1	0.536	20.5	84.6	36.2	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6
Shady Brook	100 year	W1000	29.2	20.4	12.1	0.414	13.1	92.1	60.0	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	100 year	W1010	20.9	14.6	11.7	0.559	16.3	91.0	61.3	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2
Shady Brook	100 year	W1020	14.3	9.9	7.3	0.511	9.5	87.3	47.5	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6
Shady Brook	100 year	W1030	38.6	26.8	17.9	0.464	21.4	89.9	40.8	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	100 year	W1040	34.3	23.9	18.8	0.548	28.2	89.7	32.1	99.4%	0.0%	0.0%	0.6%	0.0%	0.0%	0.9
Shady Brook	100 year	W1050	120.3	83.7	68.5	0.570	138.0	81.0	35.1	93.4%	5.6%	0.0%	1.0%	0.0%	0.0%	1.2
Shady Brook	100 year	W1060	41.7	29.0	25.5	0.612	45.2	91.5	41.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7
Shady Brook	100 year	W1070	54.4	37.9	27.1	0.498	40.5	81.5	38.3	99.3%	0.0%	0.0%	0.5%	0.2%	0.0%	2.2
Shady Brook	100 year	W1080	3.2	2.2	1.2	0.376	1.9	69.9	16.7	56.4%	0.0%	0.0%	43.6%	0.0%	0.0%	0.5
Shady Brook	100 year	W1090	20.2	14.0	7.1	0.352	7.3	91.4	47.6	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8
Shady Brook	100 year	W1100	32.2	22.4	19.4	0.603	30.5	91.0	68.5	99.7%	0.0%	0.0%	0.3%	0.0%	0.0%	1.3

## **Appendix XVII. Doctors Creek Model Results**

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	2 year	W500	563.6		172.1	79	0.1402	73.95	24.45	51.8%	17.8%	6.78%	9.44%	9.75%	4.35%	3.136
Doctors Creek	2 year	W510	1291		165.4	86.8	0.0672	66.67	5.61	29.3%	6.28%	26.4%	34.6%	2.14%	1.30%	3.544
Doctors Creek	2 year	W520	327.6		55.3	22.6	0.0690	66.61	3.57	22.18%	8.47%	33.8%	33.3%	0.55%	1.70%	2.163
Doctors Creek	2 year	W530	351.7		102.1	42.9	0.1220	73.62	13.79	28.65%	7.03%	57.4%	5.12%	1.19%	0.61%	3.150
Doctors Creek	2 year	W540	387.8		139.3	48.8	0.1258	74.98	6.18	25.47%	21.7%	41.1%	5.98%	5.74%	0.11%	2.238
Doctors Creek	2 year	W550	213.3		57.8	23.7	0.1111	71.14	13.34	24.53%	12.9%	49.9%	6.95%	4.29%	1.36%	2.240
Doctors Creek	2 year	W560	619.5		101.3	43.9	0.0709	68.19	2.68	10.15%	5.44%	54.9%	28.3%	1.05%	0.13%	2.667
Doctors Creek	2 year	W570	326.3		76.2	29.5	0.0904	71.34	3.03	17.89%	26.4%	28.7%	26.9%	0.00%	0.14%	2.241
Doctors Creek	2 year	W580	194.2		64.8	21.8	0.1122	73.18	3.59	21.72%	5.26%	61.8%	9.73%	0.00%	1.44%	1.685
Doctors Creek	2 year	W590	169.9		9.8	8.1	0.0477	70.61	0.56	3.70%	12.3%	68.9%	12.9%	0.32%	1.72%	1.535
Doctors Creek	2 year	W600	195.1		49.2	17.7	0.0907	69.19	5.43	18.42%	1.28%	71.1%	6.92%	0.43%	1.89%	2.274
Doctors Creek	2 year	W610	2.472		0.4	0.2	0.0809	75.50	0.00	0.00%	0.89%	93.6%	2.10%	0.00%	3.43%	0.340
Doctors Creek	2 year	W620	217.2		28.6	14.1	0.0649	65.71	5.33	18.73%	21.5%	55.1%	3.52%	0.00%	1.14%	2.338
Doctors Creek	2 year	W630	27.27		0.1	0.1	0.0037	58.05	3.26	7.06%	3.42%	78.2%	9.22%	1.01%	1.11%	1.003
Doctors Creek	2 year	W640	398.7		47.1	34.3	0.0860	68.60	17.50	61.04%	21.7%	8.22%	6.50%	0.33%	2.23%	2.133
Doctors Creek	2 year	W650	1247		166.7	103.5	0.0830	72.82	6.12	11.31%	21.2%	57.7%	7.42%	1.18%	1.23%	5.167
Doctors Creek	2 year	W660	399.2		47.3	26.6	0.066	67.87	3.97	27.60%	11.4%	49.30%	7.91%	0.12%	3.70%	2.840

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	2 year	W670	587.2		70.5	33.4	0.0569	64.30	3.43	19.12%	5.67%	33.1%	41.2%	0.00%	0.94%	2.120
Doctors Creek	2 year	W680	436.7		132	53.8	0.1232	75.35	9.88	46.64%	17.5%	29.9%	5.35%	0.00%	0.61%	2.888
Doctors Creek	2 year	W690	181.7		67.5	22.2	0.1222	73.09	6.05	27.67%	10.1%	55.5%	6.68%	0.00%	0.04%	1.951
Doctors Creek	2 year	W700	32.16		8.5	2.5	0.0777	64.94	2.53	9.93%	7.98%	76.3%	2.41%	0.00%	3.42%	0.955
Doctors Creek	2 year	W710	506.4		42.3	30.7	0.0606	67.40	6.09	37.00%	9.09%	36.7%	8.24%	7.68%	1.32%	2.416
Doctors Creek	2 year	W720	454.2		147.8	60.6	0.1334	71.81	20.81	82.04%	4.21%	3.49%	5.89%	1.10%	3.27%	2.735
Doctors Creek	2 year	W730	400.7		22.9	17.1	0.0427	56.95	9.55	28.38%	15.9%	42.8%	11.1%	0.00%	1.85%	2.967
Doctors Creek	2 year	W740	659.2		93.4	58.5	0.0887	69.32	14.36	45.38%	19.4%	22.0%	10.3%	0.35%	2.55%	3.057
Doctors Creek	2 year	W750	167.9		30.7	11.1	0.0661	63.58	4.97	15.25%	3.47%	36.7%	43.5%	0.12%	1.01%	1.359
Doctors Creek	2 year	W760	179.1		14.8	10.1	0.0564	67.38	1.62	5.42%	32.6%	46.1%	15.9%	0.00%	0.03%	2.005
Doctors Creek	2 year	W770	455.8		65.3	34.3	0.0752	68.81	5.98	11.03%	35.6%	49.6%	3.02%	0.00%	0.73%	4.643
Doctors Creek	2 year	W780	125.3		17.9	7.5	0.0599	65.51	1.68	3.84%	9.73%	74.8%	9.11%	0.00%	2.48%	1.820
Doctors Creek	2 year	W790	258.8		76.1	26.8	0.1036	70.33	7.18	32.40%	11.9%	50.9%	1.79%	1.79%	1.06%	2.440
Doctors Creek	2 year	W800	151.4		11	5.9	0.0390	60.25	1.36	10.80%	11.4%	67.9%	5.91%	2.17%	1.91%	1.638
Doctors Creek	2 year	W810	244.5		44	17.1	0.0699	68.32	0.52	3.08%	13.8%	69.9%	12.4%	0.29%	0.34%	1.993
Doctors Creek	2 year	W820	322.7		54.9	22.2	0.068	67.47	2.20	17.8%	4.78%	64.4%	10.9%	0.00%	2.07%	
Doctors Creek	2 year	W830	409.0		73.7	36.2	0.0885	73.33	2.95	10.17%	42.0%	46.92%	0.45%	0.00%	0.42%	4.165

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	2 year	W840	204.6		9.9	8.4	0.0411	70.60	1.24	4.09%	28.2%	63.70%	3.93%	0.00%	0.04%	1.932
Doctors Creek	2 year	W850	293.1		27.8	16.6	0.0566	65.79	2.57	5.71%	5.48%	76.73%	9.41%	0.00%	2.67%	1.951
Doctors Creek	2 year	W860	763.0		131.6	63.4	0.0831	71.68	3.37	26.81%	18.2%	35.64%	3.43%	14.3%	1.60%	3.967
Doctors Creek	2 year	W870	134.3		19.8	9.3	0.0693	69.17	0.81	1.02%	7.18%	69.15%	22.6%	0.00%	0.04%	1.000
Doctors Creek	2 year	W880	5192		881.8	480.6	0.0926	75.60	0.00	0.00%	100%	0.00%	0.00%	0.00%	0.00%	0.760
Doctors Creek	2 year	W890	173.4		36.1	10.3	0.0594	62.23	0.73	1.65%	3.36%	58.76%	36.0%	0.00%	0.20%	0.881
Doctors Creek	2 year	W900	142.6		2.4	2	0.0140	64.94	0.19	0.66%	6.03%	60.34%	32.9%	0.00%	0.12%	1.089
Doctors Creek	2 year	W910	137.2		25.5	11.5	0.0838	71.65	2.22	3.64%	5.65%	62.72%	27.1%	0.00%	0.86%	0.912
Doctors Creek	2 year	W920	270.3		38.2	13.5	0.0499	62.63	0.60	1.18%	6.89%	59.54%	31.3%	0.00%	1.08%	1.570
Doctors Creek	2 year	W930	415.8		45	26	0.0625	68.49	1.10	4.51%	24.1%	68.11%	3.00%	0.00%	0.32%	2.722
Doctors Creek	2 year	W940	335.1		32.9	14.4	0.0430	61.67	0.82	5.98%	15.1%	61.37%	16.8%	0.00%	0.78%	2.590
Doctors Creek	2 year	W950	215.1		26.2	15.8	0.0735	71.39	1.29	2.70%	48.4%	32.03%	16.7%	0.00%	0.21%	1.969
Doctors Creek	2 year	W960	179.8		38.3	13.9	0.0773	68.99	0.94	4.72%	36.2%	41.66%	17.3%	0.00%	0.16%	2.439
Doctors Creek	2 year	W970	3,560		0.4	0.2	0.0562	66.38	0.00	0.00%	87.7%	0.00%	11.9%	0.00%	0.49%	0.336
Doctors Creek	2 year	W980	432.1		81.6	33.1	0.0766	70.01	0.83	1.87%	13.0%	78.21%	4.92%	0.00%	2.00%	1.986
Doctors Creek	10 year	W500	563.6		328.6	147.3	0.2614	73.95	24.44	51.81%	17.9%	6.78%	9.44%	9.75%	4.35%	3.14
Doctors Creek	10 year	W510	1291		404.2	199.4	0.1543	66.7	5.61	29.28%	6.28%	26.45%	34.5%	2.14%	1.30%	3.54

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	10 year	W520	327.6		142.6	55.2	0.1685	66.6	3.56	22.18%	8.47%	33.86%	33.3%	0.55%	1.70%	2.16
Doctors Creek	10 year	W530	351.7		207.2	85.6	0.2434	73.6	13.78	28.65%	7.03%	57.39%	5.1%	1.19%	0.61%	3.15
Doctors Creek	10 year	W540	387.8		291.1	101.9	0.2627	74.9	6.18	25.47%	21.7%	41.06%	5.9%	5.74%	0.11%	2.24
Doctors Creek	10 year	W550	213.3		122.2	48.7	0.2283	71.1	13.34	24.53%	12.9%	49.98%	6.95%	4.29%	1.36%	2.24
Doctors Creek	10 year	W560	619.5		251.5	104.5	0.1687	68.2	2.68	10.15%	5.44%	54.90%	28.3%	1.05%	0.13%	2.67
Doctors Creek	10 year	W570	326.3		176.4	66.8	0.2047	71.3	3.03	17.89%	26.4%	28.67%	26.9%	0.00%	0.14%	2.24
Doctors Creek	10 year	W580	194.2		142.9	48	0.2471	73.2	3.58	21.72%	5.26%	61.84%	9.73%	0.00%	1.44%	1.69
Doctors Creek	10 year	W590	169.9		22.9	18.9	0.1112	70.6	0.56	3.70%	12.3%	68.99%	12.9%	0.32%	1.72%	1.53
Doctors Creek	10 year	W600	195.1		116.7	40.9	0.2097	69.2	5.43	18.42%	1.28%	71.06%	6.92%	0.43%	1.89%	2.27
Doctors Creek	10 year	W610	2.472		0.9	0.5	0.2022	75.5	0	0.00%	0.89%	93.58%	2.10%	0.00%	3.43%	0.34
Doctors Creek	10 year	W620	217.2		72.7	33.3	0.1533	65.7	5.33	18.73%	21.5%	55.13%	3.52%	0.00%	1.14%	2.34
Doctors Creek	10 year	W630	27.27		0.3	0.3	0.0110	58.1	3.27	7.06%	3.42%	78.19%	9.22%	1.01%	1.11%	1.00
Doctors Creek	10 year	W640	398.7		97.5	68	0.1705	68.6	17.0	61.04%	21.7%	8.22%	6.50%	0.33%	2.23%	2.13
Doctors Creek	10 year	W650	1247		358.8	217.9	0.1747	72.8	6.12	11.31%	21.2%	57.65%	7.42%	1.18%	1.23%	5.17
Doctors Creek	10 year	W660	399.2		115.9	61.1	0.1531	67.9	3.97	27.60%	11.4%	49.30%	7.91%	0.12%	3.70%	2.84
Doctors Creek	10 year	W670	587.2		192.1	83.7	0.1426	64.30	3.43	19.1%	5.67%	33.1%	41.2%	0.00%	0.94%	2.12
Doctors Creek	10 year	W680	436.7		269.6	108.4	0.2482	75.36	9.89	46.64%	17.5%	29.9%	5.35%	0.00%	0.61%	2.89

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	10 year	W690	181.7		145.5	47.7	0.2625	73.08	6.05	27.67%	10.3%	55.5%	6.68%	0.00%	0.04%	1.95
Doctors Creek	10 year	W700	32.17		24.3	6.8	0.2114	64.94	2.53	9.93%	7.9%	76.3%	2.41%	0.00%	3.42%	0.95
Doctors Creek	10 year	W710	506.4		100.4	69.4	0.1370	67.39	6.09	37.00%	9.1%	36.7%	8.24%	7.68%	1.32%	2.41
Doctors Creek	10 year	W720	454.2		293.6	117.4	0.2585	71.81	20.8	82.04%	4.21%	3.5%	5.89%	1.10%	3.27%	2.74
Doctors Creek	10 year	W730	400.7		58.8	40.8	0.1018	56.95	9.55	28.38%	15.8%	42.8%	11.1%	0.00%	1.85%	2.97
Doctors Creek	10 year	W740	659.2		198.2	118.4	0.1796	69.32	14.36	45.38%	19.4%	22.0%	10.3%	0.35%	2.55%	3.06
Doctors Creek	10 year	W750	167.9		85.3	28.7	0.1709	63.58	4.97	15.25%	3.47%	36.7%	43.5%	0.12%	1.01%	1.36
Doctors Creek	10 year	W760	179.11		38.2	24.2	0.1351	67.38	1.62	5.42%	32.6%	46.1%	15.9%	0.00%	0.03%	2.01
Doctors Creek	10 year	W770	455.83		151.3	76.3	0.1674	68.81	5.98	11.03%	35.6%	49.6%	3.02%	0.00%	0.73%	4.64
Doctors Creek	10 year	W780	125.3		49.9	19.3	0.1540	65.51	1.68	3.84%	9.73%	74.8%	9.11%	0.00%	2.48%	1.82
Doctors Creek	10 year	W790	258.8		171.2	59.4	0.2295	70.33	7.18	32.40%	11.9%	50.9%	1.79%	1.79%	1.06%	2.43
Doctors Creek	10 year	W800	151.4		36.6	16.7	0.1103	60.23	1.36	10.80%	11.4%	67.9%	5.91%	2.17%	1.91%	1.64
Doctors Creek	10 year	W810	244.6		114	42.6	0.1742	68.32	0.52	3.08%	13.9%	69.9%	12.4%	0.29%	0.34%	1.99
Doctors Creek	10 year	W820	322.8		140.1	54.6	0.1692	67.47	2.19	17.81%	4.8%	64.4%	10.9%	0.00%	2.07%	2.38
Doctors Creek	10 year	W830	409.0		162.1	78.1	0.1910	73.3	2.95	10.17%	42.0%	46.9%	0.45%	0.00%	0.42%	4.16
Doctors Creek	10 year	W840	204.6		22.8	19.4	0.0948	70.60	1.24	4.09%	28.2%	63.7%	3.93%	0.00%	0.04%	1.93
Doctors Creek	10 year	W850	293.07		74.2	40.3	0.1375	65.79	2.57	5.7%	5.48%	76.7%	9.41%	0.00%	2.67%	1.95

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	10 year	W860	763.01		297.5	139.9	0.1834	71.68	3.37	26%	18.2%	35.64%	3.43%	14.3%	1.60%	3.97
Doctors Creek	10 year	W870	134.29		51.1	22.4	0.1668	69.17	0.81	1.2%	7.18%	69.15%	22.6%	0.00%	0.04%	0.99
Doctors Creek	10 year	W880	5192		1966	1019	0.1963	75.59	0	0.0%	100%	0.00%	0.00%	0.00%	0.00%	0.76
Doctors Creek	10 year	W890	173.4		120.2	32.5	0.1875	62.23	0.73	1.6%	3.36%	58.76%	36.0%	0.00%	0.20%	0.88
Doctors Creek	10 year	W900	142.5		6	5.4	0.0379	64.94	0.19	0.6%	6.03%	60.34%	32.9%	0.00%	0.12%	1.09
Doctors Creek	10 year	W910	137.2		60.3	26	0.1895	71.65	2.22	3.4%	5.65%	62.72%	27.1%	0.00%	0.86%	0.91
Doctors Creek	10 year	W920	270.3		120.3	39.8	0.1473	62.63	0.60	1.18%	6.89%	59.54%	31.3%	0.00%	1.08%	1.57
Doctors Creek	10 year	W930	415.8		114	61.6	0.1481	68.49	1.09	4.51%	24.1%	68.11%	3.00%	0.00%	0.32%	2.72
Doctors Creek	10 year	W940	335.1		103.3	41.3	0.1232	61.67	0.82	5.98%	15.1%	61.37%	16.8%	0.00%	0.78%	2.59
Doctors Creek	10 year	W950	215.1		62.5	35.4	0.1646	71.39	1.29	2.70%	48.4%	32.03%	16.7%	0.00%	0.21%	1.97
Doctors Creek	10 year	W960	179.8		95.8	34	0.1892	68.99	0.94	4.72%	36.2%	41.66%	17.3%	0.00%	0.16%	2.44
Doctors Creek	10 year	W970	3.56		1.3	0.5	0.1404	66.38	0	0.00%	87.7%	0.00%	11.9%	0.00%	0.49%	0.34
Doctors Creek	10 year	W980	432.1		200	78.6	0.1819	70.01	0.83	1.87%	13.0%	78.21%	4.92%	0.00%	2.00%	1.99
Doctors Creek	100 year	W500	563.6		664.6	297	0.5264	73.95	24.44	51.81%	17.9%	6.78%	9.44%	9.75%	4.35%	3.14
Doctors Creek	100 year	W510	1291		980.5	475	0.3675	66.67	5.61	29.28%	6.28%	26.45%	34.6%	2.14%	1.30%	3.54
Doctors Creek	100 year	W520	327.6		352.3	135.8	0.4146	66.61	3.57	22.18%	8.47%	33.86%	33.3%	0.55%	1.70%	2.16
Doctors Creek	100 year	W530	351.74		436	181	0.5146	73.62	13.79	28.6%	7.03%	57.4%	5.12%	1.19%	0.61%	3.15

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	100 year	W540	387.84		616.8	220.5	0.5685	74.98	6.184	25.5%	21.7%	41.1%	5.98%	5.74%	0.11%	2.24
Doctors Creek	100 year	W550	213.33		265.8	105.9	0.4964	71.14	13.34	24.5%	12.9%	49.9%	6.95%	4.29%	1.36%	2.24
Doctors Creek	100 year	W560	619.5		612.4	252.6	0.4077	68.19	2.68	10.2%	5.44%	54.9%	28.3%	1.05%	0.13%	2.67
Doctors Creek	100 year	W570	326.35		402.5	154.1	0.4722	71.34	3.03	17.9%	26.4%	28.7%	26.9%	0.00%	0.14%	2.24
Doctors Creek	100 year	W580	194.2		316.1	107.9	0.5556	73.18	3.59	21.7%	5.26%	61.8%	9.73%	0.00%	1.44%	1.69
Doctors Creek	100 year	W590	169.9		54.3	44.5	0.2619	70.61	0.56	3.70%	12.3%	68.9%	12.9%	0.32%	1.72%	1.53
Doctors Creek	100 year	W600	195.08		271.3	95.9	0.4916	69.19	5.43	18.4%	1.28%	71.06%	6.92%	0.43%	1.89%	2.27
Doctors Creek	100 year	W610	2.47		2	1.1	0.4449	75.5	0	0.00%	0.89%	93.58%	2.10%	0.00%	3.43%	0.34
Doctors Creek	100 year	W620	217.21		181.6	80.9	0.3725	65.71	5.33	18.7%	21.5%	55.13%	3.52%	0.00%	1.14%	2.34
Doctors Creek	100 year	W630	27.27		0.9	0.8	0.0293	58.05	3.26	7.06%	3.42%	78.19%	9.22%	1.01%	1.11%	1.00
Doctors Creek	100 year	W640	398.74		215.3	145.5	0.3649	68.59	17.5	61.0%	21.7%	8.22%	6.50%	0.33%	2.23%	2.13
Doctors Creek	100 year	W650	1247		791.2	478.9	0.3840	72.82	6.12	11.3%	21.2%	57.65%	7.42%	1.18%	1.23%	5.17
Doctors Creek	100 year	W660	399.2		282.7	144.5	0.3620	67.87	3.97	27.6%	11.4%	49.30%	7.91%	0.12%	3.70%	2.84
Doctors Creek	100 year	W670	587.15		504.2	212.6	0.3621	64.30	3.43	19.1%	5.7%	33.08%	41.2%	0.00%	0.94%	2.12
Doctors Creek	100 year	W680	436.7		565.1	229.5	0.5255	75.35	9.89	46.6%	17.5%	29.88%	5.35%	0.00%	0.61%	2.89
Doctors Creek	100 year	W690	181.7		317.9	106.1	0.5839	73.09	6.05	27.7%	10.1%	55.48%	6.68%	0.00%	0.04%	1.95
Doctors Creek	100 year	W700	32.17		62.9	17.9	0.5565	64.94	2.53	9.93%	7.98%	76.26%	2.41%	0.00%	3.42%	0.955

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	100 year	W710	506.4		243.6	162.6	0.3211	67.39	6.09	37.0%	9.09%	36.68%	8.24%	7.68%	1.32%	2.42
Doctors Creek	100 year	W720	454.23		614.2	244.6	0.5385	71.81	20.8	82.04%	4.21%	3.49%	5.89%	1.10%	3.27%	2.74
Doctors Creek	100 year	W730	400.7		159.4	104.1	0.2598	56.95	9.55	28.38%	15.8%	42.81%	11.1%	0.00%	1.85%	2.97
Doctors Creek	100 year	W740	659.2		441.3	256.2	0.3887	69.32	14.36	45.38%	19.4%	22.02%	10.3%	0.35%	2.55%	3.06
Doctors Creek	100 year	W750	167.94		222	74	0.4406	63.58	4.97	15.25%	3.5%	36.65%	43.5%	0.12%	1.01%	1.36
Doctors Creek	100 year	W760	179.11		96.9	58.7	0.3277	67.38	1.62	5.42%	32.6%	46.08%	15.9%	0.00%	0.03%	2.01
Doctors Creek	100 year	W770	455.83		352.9	176.4	0.3870	68.81	5.98	11.03%	35.6%	49.61%	3.02%	0.00%	0.73%	4.64
Doctors Creek	100 year	W780	125.31		129.1	49.3	0.3934	65.51	1.68	3.84%	9.73%	74.84%	9.11%	0.00%	2.48%	1.82
Doctors Creek	100 year	W790	258.78		389.1	136	0.5256	70.33	7.18	32.40%	11.9%	50.96%	1.79%	1.79%	1.06%	2.44
Doctors Creek	100 year	W800	151.44		108.6	46.7	0.3084	60.3	1.35	10.80%	11.4%	67.86%	5.91%	2.17%	1.91%	1.64
Doctors Creek	100 year	W810	244.58		282	105.3	0.4305	68.32	0.52	3.08%	13.9%	69.99%	12.4%	0.29%	0.34%	1.99
Doctors Creek	100 year	W820	322.78		347.4	134.4	0.4164	67.5	2.19	17.81%	4.78%	64.43%	10.9%	0.00%	2.07%	2.39
Doctors Creek	100 year	W830	409.01		359.7	174.2	0.4259	73.3	2.95	10.17%	42.3%	46.92%	0.45%	0.00%	0.42%	4.16
Doctors Creek	100 year	W840	204.55		53.4	45.6	0.2229	70.6	1.24	4.09%	28.2%	63.70%	3.93%	0.00%	0.04%	1.94
Doctors Creek	100 year	W850	293.07		191.6	99.1	0.3381	65.8	2.57	5.71%	5.48%	76.73%	9.41%	0.00%	2.67%	1.95
Doctors Creek	100 year	W860	763.01		676.5	318.2	0.4170	71.68	3.37	26.81%	18.2%	35.64%	3.43%	14.3%	1.60%	3.97
Doctors Creek	100 year	W870	134.28		126.1	54	0.4021	69.171	0.806	1.02%	7.18%	69.15%	22.6%	0.00%	0.04%	0.999

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Doctors Creek	100 year	W880	5192		4397	2234	0.4303	75.6	0	0.00%	100%	0.00%	0.00%	0.00%	0.00%	0.759
Doctors Creek	100 year	W890	173.37		331.6	91.5	0.5278	62.23	0.733	1.65%	3.36%	58.76%	36.0%	0.00%	0.20%	0.881
Doctors Creek	100 year	W900	142.52		15.2	14	0.0982	64.94	0.188	0.66%	6.03%	60.34%	32.9%	0.00%	0.12%	1.09
Doctors Creek	100 year	W910	137.2		140.5	59.9	0.4365	71.65	2.219	3.64%	5.65%	62.72%	27.1%	0.00%	0.86%	0.912
Doctors Creek	100 year	W920	270.3		334.8	110.1	0.4074	62.63	0.603	1.18%	6.89%	59.54%	31.3%	0.00%	1.08%	1.57
Doctors Creek	100 year	W930	415.8		281.1	147.3	0.3543	68.49	1.098	4.51%	24.1%	68.11%	3.0%	0.00%	0.32%	2.72
Doctors Creek	100 year	W940	335.1		292.7	114.2	0.3408	61.67	0.819	5.98%	15.1%	61.37%	16.8%	0.00%	0.78%	2.59
Doctors Creek	100 year	W950	215.1		147.5	81	0.3766	71.39	1.293	2.70%	48.4%	32.03%	16.7%	0.00%	0.21%	1.97
Doctors Creek	100 year	W960	179.8		230.6	82.8	0.4606	68.99	0.936	4.72%	36.2%	41.66%	17.3%	0.00%	0.16%	2.44
Doctors Creek	100 year	W970	3.56		3.4	1.4	0.3932	66.38	0	0.00%	87.7%	0.00%	11.9%	0.00%	0.49%	0.34
Doctors Creek	100 year	W980	432.1		481.4	188.3	0.4358	70.01	0.826	1.87%	13.0%	78.21%	4.92%	0.00%	2.00%	1.99

## **Appendix XVIII. Back Creek Model Results**

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Back Creek	2 year	W420	371.9		125.7	53.1	0.1428	75.92	18.91	58.16%	20.7%	7.95%	13.2%	0.00%	0.00%	2.634
Back Creek	2 year	W430	84.5		33.4	10.8	0.1278	71.82	9.44	65.62%	29.0%	0.00%	5.3%	0.00%	0.00%	1.305
Back Creek	2 year	W440	143.5		57.9	19.6	0.1366	73.32	12.06	65.83%	23.6%	0.00%	10.5%	0.00%	0.00%	1.491
Back Creek	2 year	W450	165.7		83.7	31	0.1871	79.57	23.55	54.36%	25.6%	2.43%	17.4%	0.00%	0.23%	1.382
Back Creek	2 year	W460	46.14		22.8	10.3	0.2232	85.26	45.54	82.36%	4.10%	0.00%	13.3%	0.00%	0.29%	0.742
Back Creek	2 year	W470	91.85		55	17.5	0.1905	79.85	12.16	47.70%	35.5%	12.24%	4.6%	0.00%	0.00%	1.226
Back Creek	2 year	W480	133.1		62.2	25.2	0.1893	79.97	29.99	66.29%	20.2%	6.29%	7.20%	0.00%	0.00%	1.627
Back Creek	2 year	W490	27.94		2.8	2.7	0.0966	83.76	41.10	88.51%	8.2%	0.00%	1.38%	1.85%	0.07%	0.620
Back Creek	2 year	W500	38.92		20.6	8.5	0.2184	82.59	41.44	85.00%	1.32%	0.00%	13.7%	0.00%	0.00%	0.815
Back Creek	2 year	W510	44.95		26.8	10.3	0.2291	81.94	39.99	82.26%	1.39%	0.00%	16.4%	0.00%	0.00%	0.952
Back Creek	2 year	W520	5.29		4.1	1.4	0.2646	89.89	19.36	75.00%	25.0%	0.00%	0.00%	0.00%	0.00%	0.238
Back Creek	2 year	W530	327.8		143.2	62.8	0.1916	82.15	31.52	69.73%	8.8%	13.20%	7.63%	0.48%	0.15%	2.670
Back Creek	2 year	W540	75.01		70.2	22.7	0.3026	85.20	42.63	79.73%	10.0%	0.00%	8.84%	1.41%	0.00%	0.862
Back Creek	2 year	W550	182.3		66.7	24.9	0.1366	75.87	11.32	47.41%	33.9%	13.38%	5.21%	0.00%	0.04%	1.868
Back Creek	2 year	W560	66.7		54.8	17.7	0.2654	83.29	31.45	69.92%	18.2%	4.03%	2.57%	3.09%	2.21%	1.079
Back Creek	2 year	W570	6.23		5.7	1.6	0.2568	82.17	12.96	43.76%	39.7%	0.00%	2.92%	13.6%	0.00%	0.388
Back Creek	2 year	W580	44.31		33.4	9.8	0.2212	78.25	17.95	76.3	9.44%	4.47%	9.81%	0.00%	0.00%	1.140

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Back Creek	2 year	W590	72.4		45	18.1	0.2501	86.62	45.08	91.21	8.48%	0.00%	0.31%	0.00%	0.00%	0.598
Back Creek	2 year	W600	63.76		47.6	15.3	0.2399	83.98	19.68	71.46	15.8%	9.44%	3.26%	0.00%	0.00%	0.701
Back Creek	2 year	W610	15.73		8	2.7	0.1717	63.57	32.94	72.71	8.05%	0.00%	11.6%	0.00%	7.67%	0.779
Back Creek	2 year	W620	27.69		13.5	5.6	0.2022	83.81	28.68	32.07	23.9%	32.8%	9.87%	0.00%	1.30%	0.581
Back Creek	2 year	W630	266.9		88.4	35.6	0.1334	74.64	15.65	46.54	37.9%	4.69%	10.2%	0.00%	0.73%	2.288
Back Creek	2 year	W640	48.61		13.7	6.9	0.1419	72.95	29.58	48.99	17.3%	2.45%	27.9%	0.00%	3.29%	1.045
Back Creek	2 year	W650	18.54		1.2	0.7	0.0377	59.32	0.65	48.99	17.3%	2.45%	27.9%	0.00%	3.29%	0.802
Back Creek	2 year	W660	32.27		5.9	3.7	0.1147	75.12	15.44	82.61	9.78%	0.00%	5.10%	1.13%	1.38%	0.677
Back Creek	2 year	W670	9.52		3.6	1	0.1051	66.85	6.97	40.31	18.6%	0.00%	37.5%	0.00%	3.62%	0.449
Back Creek	2 year	W680	200.5		42.9	18.8	0.0938	73.71	2.49	27.89	49.3%	17.8%	4.90%	0.00%	0.03%	2.618
Back Creek	2 year	W690	46.33		31.8	9.2	0.1986	75.74	14.69	35.71	26.3%	2.76%	35.2%	0.00%	0.00%	0.997
Back Creek	2 year	W700	96.29		41.6	15.3	0.1589	77.18	16.43	63.01	24.5%	1.74%	10.8%	0.00%	0.00%	2.098
Back Creek	2 year	W710	29.05		5.2	2	0.0688	68.66	0.00	13.51	60.5%	21.6%	4.45%	0.00%	0.00%	1.371
Back Creek	2 year	W720	29.45		2.4	1.7	0.0577	68.53	0.48	0.79	73.9%	25.3%	0.00%	0.00%	0.00%	1.743
Back Creek	2 year	W730	41.44		17.7	5.7	0.1376	74.15	8.59	15.70	52.8%	18.9%	12.6%	0.00%	0.00%	1.938
Back Creek	2 year	W740	71.63		38.8	13.7	0.1913	82.73	13.01	53.01	37.8%	3.72%	5.37%	0.00%	0.13%	1.205
Back Creek	2 year	W750	42.28		8.2	3.5	0.0828	70.76	2.41	4.59%	46.8%	47.58%	1.00%	0.00%	0.00%	1.322

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Back Creek	2 year	W760	334.85		104.7	48.9	0.1460	79.00	18.29	47.10%	21.2%	18.75%	12.7%	0.00%	0.29%	2.043
Back Creek	2 year	W770	29.29		14.2	4.4	0.1502	78.05	0.00	0.00%	97.1%	1.93%	0.96%	0.00%	0.00%	0.960
Back Creek	2 year	W780	30.73		2.4	1.9	0.0618	72.19	0.40	3.59%	30.3%	59.85%	0.00%	6.15%	0.14%	1.050
Back Creek	2 year	W790	155.8		43.9	19.3	0.1239	79.02	4.17	15.37%	55.4%	24.05%	5.15%	0.00%	0.00%	1.761
Back Creek	2 year	W800	54.67		24.7	8	0.1463	75.58	8.72	15.26%	63.5%	9.72%	11.5%	0.00%	0.00%	1.385
Back Creek	2 year	W810	0.74		0.1	0	0.0000	64.33	0.00	0.00%	14.4%	81.25%	4.39%	0.00%	0.00%	0.425
Back Creek	2 year	W820	141.1		45.8	18.5	0.1311	77.47	8.50	23.22%	33.9%	36.99%	5.90%	0.00%	0.00%	1.860
Back Creek	10 year	W420	371.96		241.9	100.7	0.2707	75.92	18.9	58.16%	20.7%	7.95%	13.2%	0.00%	0.00%	2.633
Back Creek	10 year	W430	84.54		72.9	23.2	0.2744	71.82	9.4	65.62%	29.0%	0.00%	5.34%	0.00%	0.00%	1.305
Back Creek	10 year	W440	143.51		120.4	40.3	0.2808	73.32	12.1	65.83%	23.6%	0.00%	10.5%	0.00%	0.00%	1.491
Back Creek	10 year	W450	165.71		152.9	56.3	0.3398	79.57	23.5	54.36%	25.6%	2.43%	17.4%	0.00%	0.23%	1.382
Back Creek	10 year	W460	46.14		37.7	17	0.3685	85.26	45.5	82.36%	4.10%	0.00%	13.3%	0.00%	0.29%	0.742
Back Creek	10 year	W470	91.85		104.2	33.4	0.3636	79.85	12.2	47.70%	35.5%	12.24%	4.59%	0.00%	0.00%	1.226
Back Creek	10 year	W480	133.09		110.9	44.4	0.3336	79.97	29.9	66.29%	20.2%	6.29%	7.20%	0.00%	0.00%	1.63
Back Creek	10 year	W490	27.94		4.7	4.6	0.1646	83.76	41.1	88.51%	8.18%	0.00%	1.38%	1.85%	0.07%	0.619
Back Creek	10 year	W500	38.92		35	14.4	0.3700	82.59	41.4	85.00%	1.32%	0.00%	13.7%	0.00%	0.00%	0.816
Back Creek	10 year	W510	44.95		45.8	17.5	0.3893	81.94	39.99	82.26%	1.39%	0.00%	16.4%	0.00%	0.00%	0.9518

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Back Creek	10 year	W520	5.29		6.7	2.4	0.4536	89.89	19.35	75.00%	25.0%	0.00%	0.00%	0.00%	0.00%	0.238
Back Creek	10 year	W530	327.78		249	108.9	0.3322	82.15	31.51	69.73%	8.81%	13.20%	7.63%	0.48%	0.15%	2.67
Back Creek	10 year	W540	75.01		116.4	37.8	0.5039	85.20	42.63	79.73%	10.0%	0.00%	8.84%	1.41%	0.00%	0.862
Back Creek	10 year	W550	182.35		134.2	49.7	0.2726	75.87	11.32	47.41%	33.9%	13.38%	5.21%	0.00%	0.04%	1.868
Back Creek	10 year	W560	66.68		93.8	30.5	0.4574	83.29	31.45	69.92%	18.2%	4.03%	2.57%	3.09%	2.21%	1.079
Back Creek	10 year	W570	6.23		10.4	3	0.4815	82.17	12.96	43.76%	39.7%	0.00%	2.92%	13.6%	0.00%	0.388
Back Creek	10 year	W580	44.31		63	18.6	0.4198	78.25	17.95	76.27%	9.44%	4.47%	9.81%	0.00%	0.00%	1.139
Back Creek	10 year	W590	72.37		74	29.7	0.4104	86.62	45.08	91.21%	8.48%	0.00%	0.31%	0.00%	0.00%	0.598
Back Creek	10 year	W600	63.77		83.8	27.2	0.4266	83.98	19.68	71.46%	15.8%	9.44%	3.26%	0.00%	0.00%	0.701
Back Creek	10 year	W610	15.73		15.4	5	0.3180	63.57	32.94	72.71%	8.05%	0.00%	11.6%	0.00%	7.67%	0.779
Back Creek	10 year	W620	27.69		23.6	9.7	0.3503	83.81	28.68	32.07%	23.9%	32.79%	9.87%	0.00%	1.30%	0.581
Back Creek	10 year	W630	266.93		175.7	69.7	0.2611	74.64	15.65	46.54%	37.9%	4.69%	10.2%	0.00%	0.73%	2.289
Back Creek	10 year	W640	48.61		25.8	12.5	0.2572	72.95	29.58	48.99%	17.3%	2.45%	27.9%	0.00%	3.29%	1.045
Back Creek	10 year	W650	18.54		4.4	2	0.1079	59.32	0.653	48.99%	17.3%	2.45%	27.9%	0.00%	3.29%	0.801
Back Creek	10 year	W660	32.27		11.8	7	0.2169	75.12	15.44	82.61%	9.78%	0.00%	5.10%	1.13%	1.38%	0.677
Back Creek	10 year	W670	9.52		9	2.5	0.2626	66.85	6.967	40.31%	18.6%	0.00%	37.5%	0.00%	3.62%	0.449
Back Creek	10 year	W680	200.47		94.6	40.8	0.2035	73.71	2.49	27.89%	49.3%	17.84%	4.90%	0.00%	0.03%	2.617

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Back Creek	10 year	W690	46.33		62.6	18.1	0.3906	75.74	14.69	35.71%	26.34 %	2.76%	35.2%	0.00%	0.00%	0.997
Back Creek	10 year	W700	96.28		79.6	29.2	0.3033	77.18	16.43	63.01%	24.5%	1.74%	10.8%	0.00%	0.00%	2.098
Back Creek	10 year	W710	29.05		13.5	5.1	0.1755	68.66	0	13.51%	60.5%	21.57%	4.5%	0.00%	0.00%	1.370
Back Creek	10 year	W720	29.45		6	4	0.1358	68.53	0.48	0.79%	73.9%	25.32%	0.00%	0.00%	0.00%	1.743
Back Creek	10 year	W730	41.44		37.1	12	0.2896	74.15	8.59	15.70%	52.8%	18.92%	12.6%	0.00%	0.00%	1.937
Back Creek	10 year	W740	71.63		70.6	25.2	0.3518	82.73	13.01	53.01%	37.8%	3.72%	5.4%	0.00%	0.13%	1.205
Back Creek	10 year	W750	42.28		19.6	8	0.1892	70.76	2.41	4.59%	46.8%	47.58%	1.00%	0.00%	0.00%	1.322
Back Creek	10 year	W760	334.85		196.6	90.4	0.2700	79.00	18.29	47.10%	21.2%	18.75%	12.7%	0.00%	0.29%	2.043
Back Creek	10 year	W770	29.30		29.2	9.1	0.3106	78.05	0	0.00%	97.1%	1.93%	0.96%	0.00%	0.00%	0.960
Back Creek	10 year	W780	30.73		5.5	4.3	0.1399	72.19	0.4	3.59%	30.3%	59.85%	0.00%	6.15%	0.14%	1.050
Back Creek	10 year	W790	155.80		88.2	38.4	0.2465	79.02	4.17	15.37%	55.4%	24.05%	5.15%	0.00%	0.00%	1.761
Back Creek	10 year	W800	54.67		50.2	16.3	0.2982	75.58	8.72	15.26%	63.5%	9.72%	11.5%	0.00%	0.00%	1.385
Back Creek	10 year	W810	0.74		0.4	0.1	0.1348	64.33	0	0.00%	14.4%	81.25%	4.39%	0.00%	0.00%	0.425
Back Creek	10 year	W820	141.13		91.8	36.7	0.2600	77.47	8.49	23.22%	33.9%	36.99%	5.90%	0.00%	0.00%	1.860
Back Creek	100 year	W420	371.96		487.8	204.1	0.5487	75.92	18.91	58.16%	20.7%	7.95%	13.2%	0.00%	0.00%	2.633
Back Creek	100 year	W430	84.54		161	51.6	0.6104	71.83	9.44	65.62%	29.0%	0.00%	5.34%	0.00%	0.00%	1.305
Back Creek	100 year	W440	143.51		256.4	86.6	0.6035	73.32	12.05	65.83%	23.6%	0.00%	10.5%	0.00%	0.00%	1.491

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Back Creek	100 year	W450	165.71		295	109.5	0.6608	79.57	23.54	54.36%	25.6%	2.43%	17.4%	0.00%	0.23%	1.382
Back Creek	100 year	W460	46.14		67.3	30.5	0.6611	85.26	45.54	82.36%	4.10%	0.00%	13.3%	0.00%	0.29%	0.742
Back Creek	100 year	W470	91.85		205.4	66.9	0.7283	79.85	12.16	47.70%	35.5%	12.24%	4.59%	0.00%	0.00%	1.226
Back Creek	100 year	W480	133.09		210.1	84.7	0.6364	79.97	29.99	66.29%	20.2%	6.29%	7.20%	0.00%	0.00%	1.627
Back Creek	100 year	W490	27.94		8.6	8.4	0.3007	83.76	41.11	88.51%	8.18%	0.00%	1.38%	1.85%	0.07%	0.619
Back Creek	100 year	W500	38.92		63.8	26.4	0.6784	82.59	41.44	85.00%	1.32%	0.00%	13.7%	0.00%	0.00%	0.815
Back Creek	100 year	W510	44.95		83.9	32.1	0.7141	81.94	39.99	82.26%	1.39%	0.00%	16.4%	0.00%	0.00%	0.952
Back Creek	100 year	W520	5.2912		11.9	4.3	0.8127	89.89	19.36	75.00%	25.0%	0.00%	0.00%	0.00%	0.00%	0.238
Back Creek	100 year	W530	327.8		461.9	203.6	0.6211	82.15	31.52	69.73%	8.81%	13.20%	7.63%	0.48%	0.15%	2.669
Back Creek	100 year	W540	75.014		207.3	68	0.9065	85.19	42.63	79.73%	10.0%	0.00%	8.84%	1.41%	0.00%	0.862
Back Creek	100 year	W550	182.3		279.9	104.3	0.5720	75.87	11.32	47.41%	33.9%	13.38%	5.21%	0.00%	0.04%	1.868
Back Creek	100 year	W560	66.68		172.4	56.6	0.8488	83.29	31.45	69.92%	18.2%	4.03%	2.57%	3.09%	2.21%	1.079
Back Creek	100 year	W570	6.23		19.8	5.8	0.9309	82.17	12.96	43.76%	39.7%	0.00%	2.92%	13.6%	0.00%	0.388
Back Creek	100 year	W580	44.31		124.2	37.2	0.8396	78.25	17.95	76.27%	9.44%	4.47%	9.81%	0.00%	0.00%	1.139
Back Creek	100 year	W590	72.37		131.1	53	0.7323	86.62	45.09	91.21%	8.48%	0.00%	0.31%	0.00%	0.00%	0.598
Back Creek	100 year	W600	63.77		155.9	51.5	0.8076	83.98	19.68	71.46%	15.8%	9.44%	3.26%	0.00%	0.00%	0.701
Back Creek	100 year	W610	15.73		32.5	10.4	0.6614	63.57	32.9	72.71%	8.05%	0.00%	11.6%	0.00%	7.67%	0.778

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Back Creek	100 year	W620	27.69		43.7	18.2	0.6572	83.81	28.7	32.07%	23.9%	32.79%	9.87%	0.00%	1.30%	0.581
Back Creek	100 year	W630	266.9		363.2	144.9	0.5428	74.6	15.6	46.54%	37.9%	4.69%	10.2%	0.00%	0.73%	2.289
Back Creek	100 year	W640	48.61		52	24.8	0.5102	72.9	29.6	48.99%	17.3%	2.45%	27.9%	0.00%	3.29%	1.045
Back Creek	100 year	W650	18.544		13.7	5.7	0.3074	59.3	0.65	48.99%	17.3%	2.45%	27.9%	0.00%	3.29%	0.802
Back Creek	100 year	W660	32.27		24.8	14.4	0.4463	75.12	15.44	82.61%	9.78%	0.00%	5.10%	1.13%	1.38%	0.677
Back Creek	100 year	W670	9.52		21.7	6.2	0.6513	66.9	6.97	40.31%	18.5%	0.00%	37.5%	0.00%	3.62%	0.449
Back Creek	100 year	W680	200.4		211.3	91.1	0.4544	73.7	2.49	27.89%	49.3%	17.84%	4.90%	0.00%	0.03%	2.617
Back Creek	100 year	W690	46.33		127.4	37.4	0.8072	75.7	14.7	35.71%	26.3%	2.76%	35.2%	0.00%	0.00%	0.997
Back Creek	100 year	W700	96.28		159.3	59.1	0.6138	77.2	16.4	63.01%	24.5%	1.74%	10.8%	0.00%	0.00%	2.098
Back Creek	100 year	W710	29.05		33.5	12.5	0.4303	68.6	0	13.51%	60.5%	21.57%	4.45%	0.00%	0.00%	1.370
Back Creek	100 year	W720	29.45		15	9.6	0.3260	68.5	0.48	0.79%	73.9%	25.32%	0.00%	0.00%	0.00%	1.743
Back Creek	100 year	W730	41.44		79.1	26	0.6274	74.15	8.59	15.70%	52.8%	18.92%	12.6%	0.00%	0.00%	1.937
Back Creek	100 year	W740	71.63		135.8	49.1	0.6855	82.7	13.0	53.01%	37.8%	3.72%	5.37%	0.00%	0.13%	1.205
Back Creek	100 year	W750	42.28		46.1	18.7	0.4423	70.76	2.41	4.59%	46.8%	47.58%	1.00%	0.00%	0.00%	1.322
Back Creek	100 year	W760	334.8		388.2	179	0.5346	78.99	18.3	47.10%	21.2%	18.75%	12.7%	0.00%	0.29%	2.043
Back Creek	100 year	W770	29.29		60.4	19.4	0.6621	78.05	0	0.00%	97.1%	1.93%	0.96%	0.00%	0.00%	0.960
Back Creek	100 year	W780	30.7		12.9	9.8	0.3189	72.19	0.4	3.59%	30.3%	59.9%	0.00%	6.15%	0.14%	1.050

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Discharge (acre-ft)	Normalized Discharge (acre-ft/acre)	Peak Discharge (cfs)	Curve Number	% Impervious	Urban %	Wetlands %	Agriculture %	Forest %	Barren Land %	Water %	Tc (hours)
Back Creek	100 year	W790	155.8		181.8	79.8	0.5122	79.02	4.17	15.37%	55.4%	24.05%	5.15%	0.00%	0.00%	1.761
Back Creek	100 year	W800	54.7		104.5	34.7	0.6347	75.58	8.72	15.26%	63.5%	9.72%	11.5%	0.00%	0.00%	1.385
Back Creek	100 year	W810	0.742		1	0.3	0.4044	64.3	0	0.00%	14.4%	81.25%	4.39%	0.00%	0.00%	0.425
Back Creek	100 year	W820	141.1		189.1	76.4	0.5413	77.5	8.49	23.22%	33.9%	36.99%	5.90%	0.00%	0.00%	1.860

## **Appendix XIX. Assunpink Creek Model Results**

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	D	Major Roadway	3.47	98	0.99	0.949	1.439	2.393	0.273	0.414	0.689
Assunpink Creek (1)	D	Major Roadway	0.27	98	0.99	0.074	0.113	0.188	0.273	0.414	0.689
Assunpink Creek (1)	B	Streams And Canals	0.10	98	0.99	0.027	0.042	0.069	0.273	0.414	0.689
Assunpink Creek (1)	A	Bridge Over Water	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689
Assunpink Creek (1)	D	Major Roadway	0.03	98	0.99	0.008	0.013	0.021	0.273	0.414	0.689
Assunpink Creek (1)	D	Major Roadway	1.93	98	0.99	0.527	0.800	1.330	0.273	0.414	0.689
Assunpink Creek (1)	D	Major Roadway	0.98	98	0.99	0.267	0.405	0.673	0.273	0.414	0.689
Assunpink Creek (1)	D	Major Roadway	0.05	98	0.99	0.015	0.022	0.037	0.273	0.414	0.689
Assunpink Creek (1)	A	Natural Lakes	1.01	98	0.99	0.275	0.417	0.694	0.273	0.414	0.689
Assunpink Creek (1)	A	Natural Lakes	0.21	98	0.99	0.056	0.085	0.142	0.273	0.414	0.689
Assunpink Creek (1)	B	Natural Lakes	0.08	98	0.99	0.021	0.032	0.054	0.273	0.414	0.689
Assunpink Creek (1)	D	Natural Lakes	0.12	98	0.99	0.034	0.052	0.086	0.273	0.414	0.689
Assunpink Creek (1)	A	Streams And Canals	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689
Assunpink Creek (1)	A	Streams And Canals	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689
Assunpink Creek (1)	C	Streams And Canals	0.01	98	0.99	0.001	0.002	0.004	0.273	0.414	0.689
Assunpink Creek (1)	D	Streams And Canals	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689
Assunpink Creek (1)	D	Streams And Canals	0.81	98	0.99	0.220	0.334	0.556	0.273	0.414	0.689
Assunpink Creek (1)	D	Streams And Canals	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (1)	D	Natural Lakes	0.65	98	0.99	0.177	0.268	0.446	0.273	0.414	0.689
Assunpink Creek (1)	D	Streams And Canals	0.33	98	0.99	0.090	0.137	0.228	0.273	0.414	0.689
Assunpink Creek (1)	D	Streams And Canals	0.33	98	0.99	0.090	0.137	0.228	0.273	0.414	0.689
Assunpink Creek (1)	C	Commercial/Services	3.03	94	0.93	0.777	1.178	1.960	0.257	0.389	0.647
Assunpink Creek (1)	C	Commercial/Services	0.69	94	0.93	0.176	0.267	0.444	0.257	0.389	0.647
Assunpink Creek (1)	D	Industrial	0.34	93	0.92	0.086	0.130	0.216	0.254	0.385	0.640
Assunpink Creek (1)	B	Commercial/Services	0.39	92	0.9	0.096	0.145	0.242	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.02	92	0.9	0.253	0.384	0.639	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.03	92	0.9	0.255	0.387	0.643	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.85	92	0.9	0.210	0.319	0.531	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.37	92	0.9	0.341	0.517	0.860	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.04	92	0.9	0.258	0.392	0.652	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.04	92	0.9	0.010	0.015	0.025	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.02	92	0.9	0.005	0.007	0.011	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	4.51	92	0.9	1.119	1.696	2.822	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.72	92	0.9	0.180	0.272	0.453	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.04	92	0.9	0.009	0.014	0.023	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.87	92	0.9	0.465	0.706	1.174	0.248	0.376	0.626

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (1)	B	Commercial/Services	1.03	92	0.9	0.256	0.389	0.646	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.05	92	0.9	0.012	0.019	0.031	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.43	92	0.9	0.106	0.161	0.269	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.35	92	0.9	0.086	0.131	0.217	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.06	92	0.9	0.014	0.021	0.035	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.38	92	0.9	0.094	0.143	0.237	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.01	92	0.9	0.001	0.002	0.004	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.32	92	0.9	0.078	0.119	0.198	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.46	92	0.9	0.113	0.172	0.286	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.16	92	0.9	0.041	0.061	0.102	0.248	0.376	0.626
Assunpink Creek (1)	D	Railroads	1.25	93	0.9	0.311	0.471	0.784	0.248	0.376	0.626
Assunpink Creek (1)	D	Transportation/Communication/Utilities	0.00	93	0.9	0.000	0.000	0.000	0.248	0.376	0.626
Assunpink Creek (1)	D	Transportation/Communication/Utilities	0.03	93	0.9	0.008	0.013	0.021	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.39	92	0.9	0.344	0.522	0.869	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.54	92	0.9	0.133	0.202	0.336	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.03	92	0.9	0.009	0.013	0.022	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.07	92	0.9	0.018	0.028	0.047	0.248	0.376	0.626

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Commercial/Services	3.73	92	0.9	0.926	1.404	2.335	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.46	92	0.9	0.362	0.550	0.914	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	7.28	92	0.9	1.807	2.740	4.558	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.04	92	0.9	0.009	0.014	0.023	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.22	92	0.9	0.304	0.461	0.766	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	7.83	92	0.9	1.945	2.949	4.906	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.04	92	0.9	0.009	0.014	0.023	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.03	92	0.9	0.007	0.011	0.019	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.09	92	0.9	0.023	0.035	0.058	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.16	92	0.9	0.039	0.060	0.099	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.20	92	0.9	0.051	0.077	0.128	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.04	92	0.9	0.011	0.017	0.028	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.05	92	0.9	0.012	0.018	0.030	0.248	0.376	0.626
Assunpink Creek (1)	D	Railroads	0.46	93	0.9	0.115	0.175	0.291	0.248	0.376	0.626
Assunpink Creek (1)	D	Transportation/Communication/Utilities	0.38	93	0.9	0.095	0.144	0.239	0.248	0.376	0.626
Assunpink Creek (1)	D	Transportation/Communication/Utilities	0.23	93	0.9	0.056	0.085	0.142	0.248	0.376	0.626
Assunpink Creek (1)	D	Transportation/Communication/Utilities	0.37	93	0.9	0.093	0.141	0.234	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	2.25	92	0.9	0.558	0.846	1.407	0.248	0.376	0.626

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Commercial/Services	8.90	92	0.9	2.209	3.351	5.573	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	2.04	92	0.9	0.507	0.769	1.278	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	1.74	92	0.9	0.432	0.655	1.089	0.248	0.376	0.626
Assunpink Creek (1)	B	Commercial/Services	4.81	92	0.9	1.195	1.812	3.014	0.248	0.376	0.626
Assunpink Creek (1)	D	Railroads	2.81	93	0.9	0.698	1.058	1.760	0.248	0.376	0.626
Assunpink Creek (1)	C	Transportation/Communication/Utilities	0.12	92	0.88	0.029	0.044	0.073	0.243	0.368	0.612
Assunpink Creek (1)	C	Stormwater Basin	1.22	92	0.88	0.297	0.450	0.749	0.243	0.368	0.612
Assunpink Creek (1)	C	Transportation/Communication/Utilities	0.08	92	0.88	0.020	0.031	0.051	0.243	0.368	0.612
Assunpink Creek (1)	C	Wetland Rights-Of-Way	0.77	92	0.88	0.188	0.284	0.473	0.243	0.368	0.612
Assunpink Creek (1)	C	Wetland Rights-Of-Way	0.04	92	0.88	0.010	0.015	0.025	0.243	0.368	0.612
Assunpink Creek (1)	C	Wetland Rights-Of-Way	0.00	92	0.88	0.000	0.000	0.000	0.243	0.368	0.612
Assunpink Creek (1)	C	Industrial	0.15	91	0.88	0.038	0.057	0.095	0.243	0.368	0.612
Assunpink Creek (1)	C	Transportation/Communication/Utilities	0.79	92	0.88	0.192	0.291	0.484	0.243	0.368	0.612
Assunpink Creek (1)	C	Upland Rights-Of-Way Undeveloped	0.05	92	0.88	0.012	0.019	0.031	0.243	0.368	0.612
Assunpink Creek (1)	C	Upland Rights-Of-Way Undeveloped	0.00	92	0.88	0.000	0.000	0.000	0.243	0.368	0.612
Assunpink Creek (1)	C	Upland Rights-Of-Way Undeveloped	0.90	92	0.88	0.219	0.331	0.551	0.243	0.368	0.612
Assunpink Creek (1)	C	Wetland Rights-Of-Way	0.36	92	0.88	0.089	0.134	0.223	0.243	0.368	0.612

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	C	Wetland Rights-Of-Way	1.67	92	0.88	0.406	0.615	1.024	0.243	0.368	0.612
Assunpink Creek (1)	C	Industrial	0.01	91	0.88	0.004	0.005	0.009	0.243	0.368	0.612
Assunpink Creek (1)	C	Wetland Rights-Of-Way	0.03	92	0.88	0.008	0.012	0.020	0.243	0.368	0.612
Assunpink Creek (1)	A	Commercial/Services	0.14	89	0.84	0.033	0.050	0.083	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	3.69	89	0.84	0.856	1.297	2.158	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.05	89	0.84	0.012	0.019	0.031	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	3.72	89	0.84	0.862	1.307	2.174	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.02	89	0.84	0.004	0.006	0.009	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.74	89	0.84	0.171	0.259	0.431	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	3.09	89	0.84	0.716	1.086	1.807	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.17	89	0.84	0.040	0.060	0.101	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.01	89	0.84	0.001	0.002	0.003	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	2.24	89	0.84	0.519	0.786	1.308	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	1.87	89	0.84	0.432	0.656	1.090	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.19	89	0.84	0.044	0.067	0.112	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	1.13	89	0.84	0.261	0.396	0.659	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.01	89	0.84	0.002	0.003	0.006	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	1.41	89	0.84	0.326	0.494	0.822	0.232	0.351	0.584

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	A	Commercial/Services	1.06	89	0.84	0.245	0.371	0.617	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.232	0.351	0.584
Assunpink Creek (1)	A	Commercial/Services	0.85	89	0.84	0.197	0.299	0.497	0.232	0.351	0.584
Assunpink Creek (1)	D	Other Urban Or Built-Up Land	2.60	88	0.84	0.603	0.914	1.520	0.232	0.351	0.584
Assunpink Creek (1)	B	Stormwater Basin	2.34	89	0.81	0.524	0.795	1.322	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	1.56	88	0.81	0.349	0.529	0.880	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	0.02	89	0.81	0.005	0.007	0.012	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	0.22	89	0.81	0.049	0.074	0.124	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.43	89	0.81	0.095	0.144	0.240	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.71	89	0.81	0.159	0.242	0.402	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.32	89	0.81	0.071	0.108	0.180	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Undeveloped	0.00	89	0.81	0.000	0.000	0.000	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Undeveloped	2.11	89	0.81	0.472	0.716	1.191	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Undeveloped	0.00	89	0.81	0.000	0.000	0.000	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	0.31	88	0.81	0.070	0.107	0.177	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	2.17	88	0.81	0.486	0.737	1.226	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	3.72	88	0.81	0.830	1.259	2.094	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	0.50	88	0.81	0.112	0.169	0.281	0.223	0.339	0.564

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (1)	B	Industrial	6.70	88	0.81	1.498	2.272	3.779	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	4.79	89	0.81	1.070	1.622	2.698	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	1.10	89	0.81	0.246	0.372	0.619	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	1.86	89	0.81	0.416	0.631	1.050	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	1.26	89	0.81	0.282	0.428	0.711	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	0.00	89	0.81	0.000	0.000	0.000	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.18	89	0.81	0.041	0.062	0.104	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	2.77	89	0.81	0.619	0.939	1.562	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.65	89	0.81	0.144	0.219	0.364	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	3.01	89	0.81	0.673	1.020	1.697	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.29	89	0.81	0.065	0.099	0.165	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	3.50	89	0.81	0.782	1.187	1.974	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	4.21	89	0.81	0.941	1.428	2.375	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.03	89	0.81	0.006	0.009	0.014	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Developed	0.00	89	0.81	0.000	0.000	0.000	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Undeveloped	0.01	89	0.81	0.002	0.003	0.005	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	0.03	88	0.81	0.006	0.009	0.015	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	1.71	88	0.81	0.382	0.580	0.965	0.223	0.339	0.564

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (1)	B	Industrial	0.40	88	0.81	0.089	0.136	0.225	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	0.97	88	0.81	0.216	0.328	0.546	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	0.00	89	0.81	0.000	0.000	0.000	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	0.28	89	0.81	0.062	0.094	0.156	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	5.30	89	0.81	1.184	1.795	2.986	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	0.04	89	0.81	0.009	0.014	0.023	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.77	89	0.81	0.172	0.260	0.433	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.55	89	0.81	0.122	0.186	0.309	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.00	89	0.81	0.000	0.000	0.000	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.97	89	0.81	0.216	0.327	0.544	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Developed	0.34	89	0.81	0.076	0.116	0.193	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Undeveloped	1.22	89	0.81	0.273	0.414	0.688	0.223	0.339	0.564
Assunpink Creek (1)	B	Wetland Rights-Of-Way	3.06	89	0.81	0.683	1.036	1.724	0.223	0.339	0.564
Assunpink Creek (1)	B	Industrial	1.21	88	0.81	0.271	0.410	0.682	0.223	0.339	0.564
Assunpink Creek (1)	B	Stormwater Basin	0.17	89	0.81	0.038	0.058	0.097	0.223	0.339	0.564
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.03	89	0.81	0.007	0.011	0.017	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Developed	0.00	89	0.81	0.000	0.000	0.000	0.223	0.339	0.564
Assunpink Creek (1)	B	Upland Rights-Of-Way Undeveloped	0.00	89	0.81	0.000	0.000	0.000	0.223	0.339	0.564

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	D	Residential, Single Unit, Low Density	0.24	85	0.78	0.051	0.077	0.128	0.215	0.326	0.543
Assunpink Creek (1)	C	Other Urban Or Built-Up Land	0.00	85	0.78	0.000	0.000	0.000	0.215	0.326	0.543
Assunpink Creek (1)	B	Residential, High Density Or Multiple Dwelling	5.79	85	0.76	1.213	1.840	3.060	0.210	0.318	0.529
Assunpink Creek (1)	D	Mixed Deciduous/Coniferous Brush/Shrubland	1.99	82	0.7	0.384	0.583	0.969	0.193	0.293	0.487
Assunpink Creek (1)	D	Mixed Deciduous/Coniferous Brush/Shrubland	0.01	82	0.7	0.002	0.004	0.006	0.193	0.293	0.487
Assunpink Creek (1)	D	Mixed Deciduous/Coniferous Brush/Shrubland	0.84	82	0.7	0.163	0.247	0.411	0.193	0.293	0.487
Assunpink Creek (1)	D	Mixed Deciduous/Coniferous Brush/Shrubland	1.20	82	0.7	0.233	0.353	0.587	0.193	0.293	0.487
Assunpink Creek (1)	C	Agricultural Wetlands (Modified)	0.00	82	0.69	0.000	0.000	0.000	0.190	0.289	0.480
Assunpink Creek (1)	C	Agricultural Wetlands (Modified)	1.30	82	0.69	0.247	0.374	0.622	0.190	0.289	0.480
Assunpink Creek (1)	A	Railroads	4.50	83	0.68	0.843	1.279	2.127	0.188	0.284	0.473
Assunpink Creek (1)	A	Railroads	0.00	83	0.68	0.000	0.000	0.000	0.188	0.284	0.473
Assunpink Creek (1)	A	Stormwater Basin	0.93	83	0.68	0.174	0.265	0.440	0.188	0.284	0.473
Assunpink Creek (1)	A	Transportation/Communication/Utilities	0.49	83	0.68	0.091	0.138	0.230	0.188	0.284	0.473
Assunpink Creek (1)	A	Transportation/Communication/Utilities	0.00	83	0.68	0.000	0.000	0.000	0.188	0.284	0.473
Assunpink Creek (1)	A	Transportation/Communication/Utilities	0.19	83	0.68	0.036	0.055	0.092	0.188	0.284	0.473
Assunpink Creek (1)	A	Transportation/Communication/Utilities	0.00	83	0.68	0.000	0.000	0.000	0.188	0.284	0.473

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Assunpink Creek (1)	A	Transportation/Communication/Utilities	0.17	83	0.68	0.032	0.048	0.080	0.188	0.284	0.473
Assunpink Creek (1)	A	Upland Rights-Of-Way Developed	0.01	83	0.68	0.001	0.001	0.002	0.188	0.284	0.473
Assunpink Creek (1)	A	Upland Rights-Of-Way Undeveloped	0.00	83	0.68	0.000	0.000	0.000	0.188	0.284	0.473
Assunpink Creek (1)	A	Industrial	2.18	81	0.67	0.403	0.611	1.016	0.185	0.280	0.466
Assunpink Creek (1)	C	Residential, Single Unit, Low Density	0.01	80	0.67	0.002	0.003	0.004	0.185	0.280	0.466
Assunpink Creek (1)	A	Industrial	3.71	81	0.67	0.686	1.040	1.730	0.185	0.280	0.466
Assunpink Creek (1)	A	Industrial	0.04	81	0.67	0.007	0.010	0.017	0.185	0.280	0.466
Assunpink Creek (1)	A	Industrial	0.07	81	0.67	0.012	0.019	0.031	0.185	0.280	0.466
Assunpink Creek (1)	A	Industrial	0.15	81	0.67	0.027	0.042	0.069	0.185	0.280	0.466
Assunpink Creek (1)	C	Residential, Single Unit, Medium Density	16.14	81	0.67	2.982	4.523	7.524	0.185	0.280	0.466
Assunpink Creek (1)	C	Residential, Single Unit, Medium Density	5.05	81	0.67	0.933	1.415	2.354	0.185	0.280	0.466
Assunpink Creek (1)	A	Industrial	0.90	81	0.67	0.166	0.252	0.420	0.185	0.280	0.466
Assunpink Creek (1)	A	Industrial	0.00	81	0.67	0.001	0.001	0.002	0.185	0.280	0.466
Assunpink Creek (1)	A	Industrial	0.55	81	0.67	0.102	0.155	0.258	0.185	0.280	0.466
Assunpink Creek (1)	D	Deciduous Brush/Shrubland	0.00	79	0.65	0.000	0.000	0.001	0.179	0.272	0.452
Assunpink Creek (1)	D	Deciduous Brush/Shrubland	0.79	79	0.65	0.142	0.216	0.359	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.03	77	0.65	0.006	0.009	0.015	0.179	0.272	0.452

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.02	77	0.65	0.003	0.004	0.007	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.70	77	0.65	0.126	0.191	0.317	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	2.70	77	0.65	0.484	0.734	1.221	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.51	77	0.65	0.091	0.138	0.230	0.179	0.272	0.452
Assunpink Creek (1)	D	Deciduous Brush/Shrubland	0.23	79	0.65	0.041	0.062	0.104	0.179	0.272	0.452
Assunpink Creek (1)	D	Deciduous Forest (>50% Crown Closure)	0.00	79	0.65	0.000	0.000	0.000	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.06	77	0.65	0.010	0.016	0.026	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.09	77	0.65	0.016	0.024	0.041	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	1.50	77	0.65	0.270	0.409	0.680	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	1.63	77	0.65	0.292	0.443	0.737	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.01	77	0.65	0.001	0.002	0.003	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.60	77	0.65	0.108	0.163	0.272	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	2.41	77	0.65	0.432	0.654	1.089	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.96	77	0.65	0.172	0.261	0.434	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.08	77	0.65	0.014	0.021	0.034	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	2.03	77	0.65	0.363	0.551	0.917	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.56	77	0.65	0.101	0.153	0.255	0.179	0.272	0.452

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.03	77	0.65	0.005	0.007	0.012	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	2.96	77	0.65	0.531	0.805	1.339	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.001	0.001	0.002	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	5.17	77	0.65	0.927	1.406	2.339	0.179	0.272	0.452
Assunpink Creek (1)	D	Deciduous Brush/Shrubland	1.66	79	0.65	0.298	0.453	0.753	0.179	0.272	0.452
Assunpink Creek (1)	D	Deciduous Brush/Shrubland	2.13	79	0.65	0.382	0.580	0.965	0.179	0.272	0.452
Assunpink Creek (1)	D	Deciduous Forest (>50% Crown Closure)	0.20	79	0.65	0.037	0.056	0.092	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	1.99	77	0.65	0.357	0.541	0.900	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.07	77	0.65	0.013	0.019	0.032	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.53	77	0.65	0.095	0.144	0.239	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.72	77	0.65	0.129	0.196	0.326	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.83	77	0.65	0.149	0.226	0.376	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.66	77	0.65	0.119	0.181	0.300	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	3.91	77	0.65	0.702	1.064	1.770	0.179	0.272	0.452

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	6.63	77	0.65	1.189	1.803	2.999	0.179	0.272	0.452
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.001	0.001	0.179	0.272	0.452
Assunpink Creek (1)	B	Agricultural Wetlands (Modified)	0.13	74	0.63	0.023	0.035	0.057	0.174	0.264	0.438
Assunpink Creek (1)	C	Old Field (< 25% Brush Covered)	1.03	79	0.63	0.178	0.271	0.450	0.174	0.264	0.438
Assunpink Creek (1)	C	Residential, Rural, Single Unit	0.69	79	0.63	0.120	0.182	0.302	0.174	0.264	0.438
Assunpink Creek (1)	B	Agricultural Wetlands (Modified)	0.03	74	0.63	0.006	0.008	0.014	0.174	0.264	0.438
Assunpink Creek (1)	C	Old Field (< 25% Brush Covered)	0.00	79	0.63	0.000	0.000	0.000	0.174	0.264	0.438
Assunpink Creek (1)	D	Herbaceous Wetlands	0.09	78	0.6	0.015	0.022	0.037	0.165	0.251	0.417
Assunpink Creek (1)	D	Herbaceous Wetlands	0.12	78	0.6	0.020	0.030	0.050	0.165	0.251	0.417
Assunpink Creek (1)	D	Herbaceous Wetlands	5.04	78	0.6	0.834	1.265	2.104	0.165	0.251	0.417
Assunpink Creek (1)	D	Herbaceous Wetlands	1.04	78	0.6	0.172	0.261	0.434	0.165	0.251	0.417
Assunpink Creek (1)	D	Herbaceous Wetlands	1.65	78	0.6	0.274	0.415	0.690	0.165	0.251	0.417
Assunpink Creek (1)	D	Herbaceous Wetlands	0.65	78	0.6	0.108	0.163	0.272	0.165	0.251	0.417
Assunpink Creek (1)	D	Herbaceous Wetlands	1.85	78	0.6	0.307	0.465	0.774	0.165	0.251	0.417
Assunpink Creek (1)	D	Herbaceous Wetlands	1.04	78	0.6	0.172	0.261	0.435	0.165	0.251	0.417
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	5.60	77	0.59	0.912	1.383	2.300	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.163	0.247	0.411

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.07	77	0.59	0.012	0.018	0.029	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.80	77	0.59	0.130	0.197	0.327	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.08	77	0.59	0.013	0.020	0.033	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	11.23	77	0.59	1.828	2.772	4.611	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	1.08	77	0.59	0.176	0.267	0.444	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.02	77	0.59	0.003	0.005	0.008	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.08	77	0.59	0.013	0.019	0.032	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	7.62	77	0.59	1.240	1.881	3.129	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	2.14	77	0.59	0.348	0.528	0.878	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	3.17	77	0.59	0.516	0.783	1.302	0.163	0.247	0.411
Assunpink Creek (1)	D	Phragmites Dominate Interior Wetlands	0.92	78	0.59	0.150	0.227	0.378	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.001	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.94	77	0.59	0.152	0.231	0.385	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.06	77	0.59	0.010	0.015	0.025	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	17.79	77	0.59	2.895	4.391	7.303	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.02	77	0.59	0.003	0.004	0.007	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.49	77	0.59	0.080	0.121	0.201	0.163	0.247	0.411

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.25	77	0.59	0.041	0.062	0.103	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	6.11	77	0.59	0.994	1.508	2.508	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	5.89	77	0.59	0.959	1.454	2.418	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.36	77	0.59	0.059	0.089	0.149	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	2.39	77	0.59	0.389	0.590	0.982	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.95	77	0.59	0.155	0.235	0.391	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	14.72	77	0.59	2.395	3.632	6.042	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	13.62	77	0.59	2.216	3.360	5.590	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	1.04	77	0.59	0.169	0.256	0.426	0.163	0.247	0.411
Assunpink Creek (1)	C	Orchards/Vineyards/Nurseries/Horticultural Areas	0.12	77	0.59	0.020	0.031	0.051	0.163	0.247	0.411
Assunpink Creek (1)	D	Phragmites Dominate Interior Wetlands	0.69	78	0.59	0.113	0.171	0.285	0.163	0.247	0.411
Assunpink Creek (1)	D	Phragmites Dominate Interior Wetlands	0.55	78	0.59	0.089	0.135	0.224	0.163	0.247	0.411
Assunpink Creek (1)	D	Phragmites Dominate Interior Wetlands	22.53	78	0.59	3.667	5.561	9.250	0.163	0.247	0.411
Assunpink Creek (1)	A	Residential, High Density Or Multiple Dwelling	0.43	77	0.59	0.070	0.107	0.178	0.163	0.247	0.411
Assunpink Creek (1)	D	Deciduous Scrub/Shrub Wetlands	0.83	77	0.59	0.135	0.205	0.341	0.163	0.247	0.411
Assunpink Creek (1)	B	Altered Lands	1.93	77	0.56	0.298	0.452	0.751	0.154	0.234	0.390
Assunpink Creek (1)	B	Altered Lands	0.04	77	0.56	0.007	0.010	0.017	0.154	0.234	0.390

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Assunpink Creek (1)	B	Disturbed Wetlands (Modified)	0.65	77	0.56	0.100	0.151	0.252	0.154	0.234	0.390
Assunpink Creek (1)	C	Deciduous Forest (>50% Crown Closure)	0.00	73	0.51	0.000	0.000	0.000	0.141	0.213	0.355
Assunpink Creek (1)	C	Deciduous Forest (10-50% Crown Closure)	0.00	73	0.51	0.000	0.000	0.000	0.141	0.213	0.355
Assunpink Creek (1)	C	Mixed Forest (>50% Deciduous With >50% Crown Closure)	0.36	73	0.51	0.050	0.076	0.126	0.141	0.213	0.355
Assunpink Creek (1)	C	Deciduous Forest (>50% Crown Closure)	0.86	73	0.51	0.121	0.183	0.304	0.141	0.213	0.355
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	12.06	72	0.49	1.630	2.472	4.112	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	5.06	72	0.49	0.684	1.037	1.725	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	1.53	72	0.49	0.206	0.313	0.521	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	7.68	72	0.49	1.039	1.575	2.620	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	100.2	72	0.49	13.546	20.544	34.172	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.11	72	0.49	0.015	0.022	0.037	0.135	0.205	0.341

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Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.07	72	0.49	0.010	0.015	0.025	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	7.15	72	0.49	0.967	1.466	2.439	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	7.86	72	0.49	1.062	1.611	2.679	0.135	0.205	0.341
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	3.20	72	0.49	0.433	0.656	1.091	0.135	0.205	0.341
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	9.29	70	0.45	1.154	1.749	2.910	0.124	0.188	0.313
Assunpink Creek (1)	B	Old Field (< 25% Brush Covered)	0.10	69	0.45	0.013	0.019	0.032	0.124	0.188	0.313
Assunpink Creek (1)	B	Residential, Single Unit, Low Density	0.13	70	0.45	0.016	0.025	0.041	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	5.27	70	0.45	0.655	0.993	1.652	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	3.84	70	0.45	0.477	0.724	1.204	0.124	0.188	0.313
Assunpink Creek (1)	B	Old Field (< 25% Brush Covered)	0.12	69	0.45	0.015	0.023	0.039	0.124	0.188	0.313
Assunpink Creek (1)	B	Old Field (< 25% Brush Covered)	0.00	69	0.45	0.000	0.000	0.000	0.124	0.188	0.313
Assunpink Creek (1)	B	Old Field (< 25% Brush Covered)	0.99	69	0.45	0.123	0.187	0.310	0.124	0.188	0.313
Assunpink Creek (1)	B	Residential, Single Unit, Low Density	1.46	70	0.45	0.181	0.274	0.457	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	0.74	70	0.45	0.092	0.139	0.232	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	0.21	70	0.45	0.026	0.039	0.066	0.124	0.188	0.313

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Assunpink Creek (1)	C	Deciduous Wooded Wetlands	3.02	70	0.45	0.374	0.568	0.945	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	0.01	70	0.45	0.001	0.001	0.002	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	0.04	70	0.45	0.005	0.008	0.013	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	1.16	70	0.45	0.145	0.219	0.365	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	0.09	70	0.45	0.011	0.017	0.028	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	0.00	70	0.45	0.000	0.000	0.000	0.124	0.188	0.313
Assunpink Creek (1)	B	Old Field (< 25% Brush Covered)	0.31	69	0.45	0.038	0.058	0.097	0.124	0.188	0.313
Assunpink Creek (1)	B	Residential, Single Unit, Low Density	1.17	70	0.45	0.145	0.220	0.366	0.124	0.188	0.313
Assunpink Creek (1)	B	Residential, Single Unit, Low Density	0.09	70	0.45	0.011	0.017	0.028	0.124	0.188	0.313
Assunpink Creek (1)	B	Athletic Fields (Schools)	0.19	69	0.45	0.024	0.036	0.060	0.124	0.188	0.313
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	0.24	70	0.45	0.030	0.045	0.076	0.124	0.188	0.313
Assunpink Creek (1)	B	Old Field (< 25% Brush Covered)	0.73	69	0.45	0.091	0.138	0.230	0.124	0.188	0.313
Assunpink Creek (1)	B	Recreational Land	11.48	69	0.42	1.330	2.017	3.354	0.116	0.176	0.292
Assunpink Creek (1)	B	Recreational Land	1.52	69	0.42	0.176	0.268	0.445	0.116	0.176	0.292
Assunpink Creek (1)	B	Recreational Land	0.10	69	0.42	0.012	0.018	0.029	0.116	0.176	0.292
Assunpink Creek (1)	B	Recreational Land	23.31	69	0.42	2.701	4.096	6.813	0.116	0.176	0.292
Assunpink Creek (1)	B	Recreational Land	3.22	69	0.42	0.373	0.566	0.942	0.116	0.176	0.292
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.02	68	0.41	0.002	0.003	0.005	0.113	0.172	0.285

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.17	68	0.41	0.019	0.029	0.048	0.113	0.172	0.285
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.65	68	0.41	0.074	0.112	0.186	0.113	0.172	0.285
Assunpink Creek (1)	B	Residential, Rural, Single Unit	1.41	68	0.41	0.160	0.243	0.404	0.113	0.172	0.285
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.12	68	0.41	0.013	0.020	0.034	0.113	0.172	0.285
Assunpink Creek (1)	A	Altered Lands	2.35	63	0.28	0.182	0.275	0.458	0.077	0.117	0.195
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	0.67	63	0.28	0.052	0.078	0.130	0.077	0.117	0.195
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	0.46	63	0.28	0.036	0.054	0.090	0.077	0.117	0.195
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	1.48	63	0.28	0.115	0.174	0.289	0.077	0.117	0.195
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	1.38	63	0.28	0.107	0.162	0.269	0.077	0.117	0.195
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	0.12	63	0.28	0.009	0.014	0.024	0.077	0.117	0.195
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	0.09	63	0.28	0.007	0.010	0.017	0.077	0.117	0.195
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	0.29	63	0.28	0.022	0.034	0.056	0.077	0.117	0.195
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	1.47	63	0.26	0.105	0.160	0.266	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	63	0.26	0.000	0.000	0.000	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	3.71	63	0.26	0.266	0.403	0.671	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	63	0.26	0.000	0.000	0.000	0.072	0.109	0.181

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.71	63	0.26	0.051	0.077	0.128	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	1.12	63	0.26	0.081	0.122	0.203	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	4.97	63	0.26	0.357	0.541	0.900	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	63	0.26	0.000	0.000	0.000	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	5.99	63	0.26	0.430	0.651	1.084	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.03	63	0.26	0.002	0.004	0.006	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	1.09	63	0.26	0.078	0.119	0.197	0.072	0.109	0.181
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.01	63	0.26	0.001	0.001	0.001	0.072	0.109	0.181
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.20	60	0.25	0.014	0.021	0.036	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	1.45	60	0.25	0.100	0.152	0.253	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.58	60	0.25	0.040	0.061	0.101	0.069	0.105	0.174
Assunpink Creek (1)	B	Mixed Forest (>50% Deciduous With >50% Crown Closure)	1.01	60	0.25	0.070	0.106	0.176	0.069	0.105	0.174

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Coniferous Forest (>50% Crown Closure)	1.06	60	0.25	0.073	0.111	0.185	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.18	60	0.25	0.013	0.019	0.032	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.01	60	0.25	0.001	0.001	0.002	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	1.09	60	0.25	0.075	0.114	0.190	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	5.64	60	0.25	0.389	0.590	0.981	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	3.44	60	0.25	0.237	0.360	0.599	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	5.14	60	0.25	0.354	0.538	0.894	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	2.62	60	0.25	0.181	0.274	0.456	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.001	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.02	60	0.25	0.001	0.002	0.003	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.24	60	0.25	0.016	0.025	0.041	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	2.64	60	0.25	0.182	0.276	0.459	0.069	0.105	0.174

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	2.47	60	0.25	0.170	0.258	0.429	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.25	60	0.25	0.018	0.027	0.044	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	3.10	60	0.25	0.214	0.324	0.540	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	1.08	60	0.25	0.075	0.113	0.188	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.03	60	0.25	0.002	0.003	0.005	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	2.79	60	0.25	0.192	0.292	0.485	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.95	60	0.25	0.066	0.100	0.166	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.38	60	0.25	0.026	0.039	0.065	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.23	60	0.25	0.016	0.024	0.041	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.01	60	0.25	0.000	0.001	0.001	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (10-50% Crown Closure)	0.59	60	0.25	0.041	0.062	0.103	0.069	0.105	0.174

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Mixed Forest (>50% Coniferous With >50% Crown Closure)	0.20	60	0.25	0.014	0.021	0.034	0.069	0.105	0.174
Assunpink Creek (1)	B	Mixed Forest (>50% Deciduous With >50% Crown Closure)	1.66	60	0.25	0.114	0.174	0.289	0.069	0.105	0.174
Assunpink Creek (1)	B	Mixed Forest (>50% Deciduous With >50% Crown Closure)	1.36	60	0.25	0.094	0.142	0.237	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.64	60	0.25	0.044	0.066	0.111	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.001	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.02	60	0.25	0.001	0.002	0.003	0.069	0.105	0.174
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.31	55	0.15	0.013	0.019	0.032	0.041	0.063	0.104
Assunpink Creek (1)	B	Herbaceous Wetlands	0.00	58	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Scrub/Shrub Wetlands	0.54	55	0.15	0.022	0.034	0.057	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Scrub/Shrub Wetlands	0.48	55	0.15	0.020	0.030	0.050	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Scrub/Shrub Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	4.71	55	0.15	0.195	0.295	0.491	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	9.28	55	0.15	0.384	0.582	0.969	0.041	0.063	0.104

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	5.80	55	0.15	0.240	0.364	0.606	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.14	55	0.15	0.006	0.009	0.015	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	1.53	55	0.15	0.063	0.096	0.159	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.15	55	0.15	0.006	0.010	0.016	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	3.80	55	0.15	0.157	0.238	0.397	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	5.89	55	0.15	0.244	0.369	0.614	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Herbaceous Wetlands	0.00	58	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Herbaceous Wetlands	0.44	58	0.15	0.018	0.027	0.046	0.041	0.063	0.104
Assunpink Creek (1)	B	Managed Wetland In Maintained Lawn Greenspace	1.76	58	0.15	0.073	0.110	0.183	0.041	0.063	0.104
Assunpink Creek (1)	A	Residential, Single Unit, Medium Density	6.20	57	0.15	0.257	0.389	0.647	0.041	0.063	0.104
Assunpink Creek (1)	A	Residential, Single Unit, Medium Density	0.00	57	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	A	Residential, Single Unit, Medium Density	0.00	57	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Scrub/Shrub Wetlands	2.99	55	0.15	0.124	0.188	0.312	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.01	55	0.15	0.001	0.001	0.002	0.041	0.063	0.104

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Assunpink Creek (1)	B	Deciduous Wooded Wetlands	15.91	55	0.15	0.658	0.998	1.660	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	2.50	55	0.15	0.104	0.157	0.261	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	1.26	55	0.15	0.052	0.079	0.132	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	8.04	55	0.15	0.333	0.505	0.839	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.07	55	0.15	0.003	0.004	0.007	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.10	55	0.15	0.004	0.006	0.010	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	27.64	55	0.15	1.144	1.734	2.885	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.39	55	0.15	0.016	0.025	0.041	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	91.66	55	0.15	3.792	5.752	9.567	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	5.55	55	0.15	0.230	0.348	0.579	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	1.62	55	0.15	0.067	0.101	0.169	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.74	55	0.15	0.031	0.047	0.078	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.37	55	0.15	0.015	0.023	0.039	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.44	55	0.15	0.018	0.028	0.046	0.041	0.063	0.104
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.04	55	0.15	0.002	0.002	0.004	0.041	0.063	0.104
Assunpink Creek (1)	B	Herbaceous Wetlands	0.00	58	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Herbaceous Wetlands	0.63	58	0.15	0.026	0.040	0.066	0.041	0.063	0.104

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Assunpink Creek (1)	B	Managed Wetland In Maintained Lawn Greenspace	0.00	58	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (1)	B	Phragmites Dominate Interior Wetlands	0.25	58	0.15	0.010	0.015	0.026	0.041	0.063	0.104
Assunpink Creek (1)	A	Residential, Single Unit, Medium Density	0.01	57	0.15	0.000	0.000	0.001	0.041	0.063	0.104
Assunpink Creek (1)	A	Residential, Single Unit, Medium Density	10.45	57	0.15	0.433	0.656	1.091	0.041	0.063	0.104
Assunpink Creek (1)	A	Residential, Single Unit, Medium Density	5.66	57	0.15	0.234	0.355	0.591	0.041	0.063	0.104
Assunpink Creek (1)	A	Residential, Single Unit, Medium Density	0.01	57	0.15	0.001	0.001	0.001	0.041	0.063	0.104
Assunpink Creek (1)	A	Residential, Single Unit, Low Density	0.03	54	0.12	0.001	0.001	0.002	0.033	0.050	0.083
Assunpink Creek (1)	B	Mixed Wooded Wetlands (Deciduous Dom.)	1.53	55	0.12	0.051	0.077	0.128	0.033	0.050	0.083
Assunpink Creek (1)	A	Residential, Rural, Single Unit	1.27	51	0.12	0.042	0.064	0.106	0.033	0.050	0.083
Assunpink Creek (1)	A	Residential, Rural, Single Unit	0.58	51	0.12	0.019	0.029	0.049	0.033	0.050	0.083
Assunpink Creek (1)	A	Residential, Rural, Single Unit	0.59	51	0.12	0.020	0.030	0.049	0.033	0.050	0.083
Assunpink Creek (1)	A	Residential, Single Unit, Low Density	0.11	54	0.12	0.004	0.006	0.009	0.033	0.050	0.083
Assunpink Creek (1)	A	Residential, Single Unit, Low Density	1.14	54	0.12	0.038	0.057	0.096	0.033	0.050	0.083
Assunpink Creek (1)	A	Residential, Single Unit, Low Density	0.74	54	0.12	0.025	0.037	0.062	0.033	0.050	0.083
Assunpink Creek (1)	A	Cropland And Pastureland	3.08	49	0.1	0.085	0.129	0.214	0.028	0.042	0.070
Assunpink Creek (1)	A	Other Agriculture	1.43	59	0.1	0.039	0.060	0.100	0.028	0.042	0.070

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Assunpink Creek (1)	A	Recreational Land	0.00	49	0.1	0.000	0.000	0.000	0.028	0.042	0.070
Assunpink Creek (1)	A	Recreational Land	12.01	49	0.1	0.331	0.503	0.836	0.028	0.042	0.070
Assunpink Creek (1)	A	Old Field (< 25% Brush Covered)	2.00	49	0.1	0.055	0.084	0.139	0.028	0.042	0.070
Assunpink Creek (1)	A	Old Field (< 25% Brush Covered)	0.13	49	0.1	0.004	0.006	0.009	0.028	0.042	0.070
Assunpink Creek (1)	B	Altered Lands	0.00	77	0.56	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Athletic Fields (Schools)	0.00	69	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Commercial/Services	0.00	92	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Coniferous Forest (>50% Crown Closure)	3.49	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Coniferous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Coniferous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	2.88	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	0.16	36	0	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	3.87	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	6.97	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	0.85	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Brush/Shrubland	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Deciduous Brush/Shrubland	0.00	79	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	6.21	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.95	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	16.41	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000

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Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	1.43	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	6.96	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	1.05	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.04	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.12	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Scrub/Shrub Wetlands	0.33	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Deciduous Scrub/Shrub Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.15	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000

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Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.64	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	5.85	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.09	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	6.37	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.09	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.14	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	1.71	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	0.02	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Deciduous Wooded Wetlands	1.23	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000

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Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	C	Deciduous Wooded Wetlands	0.00	70	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Disturbed Wetlands (Modified)	0.00	77	0.56	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Herbaceous Wetlands	0.17	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Herbaceous Wetlands	0.01	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Herbaceous Wetlands	0.00	78	0.6	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Industrial	0.00	88	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Industrial	0.00	88	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Industrial	0.00	88	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Mixed Deciduous/Coniferous Brush/Shrubland	1.13	38	0	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	A	Mixed Deciduous/Coniferous Brush/Shrubland	1.32	38	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Mixed Deciduous/Coniferous Brush/Shrubland	3.41	38	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	63	0.26	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	63	0.26	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	63	0.26	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	63	0.26	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	63	0.26	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Mixed Deciduous/Coniferous Brush/Shrubland	0.00	82	0.7	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Mixed Forest (>50% Coniferous With >50% Crown Closure)	0.39	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Mixed Forest (>50% Coniferous With >50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Mixed Forest (>50% Deciduous With >50% Crown Closure)	2.55	36	0	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	A	Mixed Forest (>50% Deciduous With >50% Crown Closure)	0.89	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Mixed Forest (>50% Deciduous With >50% Crown Closure)	0.05	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Mixed Wooded Wetlands (Deciduous Dom.)	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Mixed Wooded Wetlands (Deciduous Dom.)	0.00	55	0.12	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Old Field (< 25% Brush Covered)	0.00	69	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Orchards/Vineyards/Nurseries/Horticultural Areas	1.08	45	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Orchards/Vineyards/Nurseries/Horticultural Areas	0.00	45	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Agriculture	0.00	74	0.63	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Other Urban Or Built-Up Land	0.00	77	0.65	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Other Urban Or Built-Up Land	0.00	88	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Phragmites Dominate Interior Wetlands	0.00	78	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Phragmites Dominate Interior Wetlands	0.00	78	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Railroads	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	C	Railroads	0.00	92	0.88	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	C	Railroads	0.00	92	0.88	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Railroads	0.00	93	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Railroads	0.00	93	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	D	Railroads	0.00	93	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Recreational Land	0.00	49	0.1	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Recreational Land	0.00	69	0.42	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (1)	B	Recreational Land	0.00	69	0.42	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Recreational Land	0.00	69	0.42	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Recreational Land	0.00	69	0.42	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Recreational Land	0.00	69	0.42	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Recreational Land	0.00	69	0.42	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, High Density Or Multiple Dwelling	0.00	85	0.76	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, High Density Or Multiple Dwelling	0.00	85	0.76	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Residential, Rural, Single Unit	0.00	51	0.12	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Residential, Single Unit, Low Density	0.00	54	0.12	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	A	Residential, Single Unit, Medium Density	0.00	57	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.000	0.000	0.000

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	C	Residential, Single Unit, Medium Density	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Stormwater Basin	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Stormwater Basin	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Stormwater Basin	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Stormwater Basin	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Stormwater Basin	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Stormwater Basin	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Transportation/Communication/Utilities	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	B	Upland Rights-Of-Way Developed	0.00	89	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (1)	C	Wetland Rights-Of-Way	0.00	92	0.88	0.000	0.000	0.000	0.000	0.000	0.000

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Artificial Lakes	0.33	98	0.99	0.091	0.138	0.229	0.273	0.414	0.689
Assunpink Creek (2)	D	Artificial Lakes	2.61	98	0.99	0.711	1.079	1.795	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.01	98	0.99	0.003	0.005	0.008	0.273	0.414	0.689
Assunpink Creek (2)	D	Streams And Canals	0.00	98	0.99	0.001	0.002	0.003	0.273	0.414	0.689
Assunpink Creek (2)	A	Artificial Lakes	1.08	98	0.99	0.294	0.446	0.742	0.273	0.414	0.689
Assunpink Creek (2)	A	Artificial Lakes	0.40	98	0.99	0.108	0.164	0.273	0.273	0.414	0.689
Assunpink Creek (2)	B	Artificial Lakes	0.09	98	0.99	0.025	0.038	0.064	0.273	0.414	0.689
Assunpink Creek (2)	B	Artificial Lakes	0.04	98	0.99	0.011	0.016	0.027	0.273	0.414	0.689
Assunpink Creek (2)	C	Artificial Lakes	0.32	98	0.99	0.087	0.131	0.218	0.273	0.414	0.689
Assunpink Creek (2)	C	Artificial Lakes	0.28	98	0.99	0.077	0.116	0.194	0.273	0.414	0.689
Assunpink Creek (2)	A	Bridge Over Water	0.08	98	0.99	0.021	0.032	0.053	0.273	0.414	0.689
Assunpink Creek (2)	A	Bridge Over Water	0.02	98	0.99	0.005	0.007	0.012	0.273	0.414	0.689
Assunpink Creek (2)	A	Bridge Over Water	0.01	98	0.99	0.001	0.002	0.004	0.273	0.414	0.689
Assunpink Creek (2)	A	Bridge Over Water	0.04	98	0.99	0.012	0.018	0.030	0.273	0.414	0.689
Assunpink Creek (2)	D	Bridge Over Water	0.05	98	0.99	0.015	0.022	0.037	0.273	0.414	0.689
Assunpink Creek (2)	D	Bridge Over Water	0.02	98	0.99	0.006	0.009	0.015	0.273	0.414	0.689
Assunpink Creek (2)	A	Major Roadway	0.00	98	0.99	0.000	0.001	0.001	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.02	98	0.99	0.005	0.007	0.011	0.273	0.414	0.689

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Streams And Canals	0.02	98	0.99	0.005	0.007	0.012	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.06	98	0.99	0.016	0.024	0.040	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.07	98	0.99	0.020	0.030	0.049	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	2.31	98	0.99	0.630	0.956	1.590	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.25	98	0.99	0.068	0.103	0.171	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.00	98	0.99	0.001	0.002	0.003	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.15	98	0.99	0.041	0.062	0.103	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	1.92	98	0.99	0.525	0.797	1.325	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.13	98	0.99	0.034	0.052	0.086	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	3.34	98	0.99	0.912	1.383	2.301	0.273	0.414	0.689
Assunpink Creek (2)	D	Streams And Canals	0.03	98	0.99	0.007	0.011	0.018	0.273	0.414	0.689
Assunpink Creek (2)	D	Streams And Canals	0.20	98	0.99	0.055	0.084	0.140	0.273	0.414	0.689
Assunpink Creek (2)	D	Streams And Canals	0.00	98	0.99	0.001	0.001	0.002	0.273	0.414	0.689
Assunpink Creek (2)	D	Streams And Canals	3.53	98	0.99	0.964	1.462	2.432	0.273	0.414	0.689
Assunpink Creek (2)	D	Streams And Canals	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689
Assunpink Creek (2)	D	Streams And Canals	0.05	98	0.99	0.014	0.022	0.036	0.273	0.414	0.689
Assunpink Creek (2)	A	Artificial Lakes	0.01	98	0.99	0.002	0.003	0.006	0.273	0.414	0.689
Assunpink Creek (2)	A	Artificial Lakes	0.04	98	0.99	0.010	0.015	0.025	0.273	0.414	0.689

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Artificial Lakes	0.17	98	0.99	0.046	0.070	0.116	0.273	0.414	0.689
Assunpink Creek (2)	A	Bridge Over Water	0.02	98	0.99	0.005	0.007	0.011	0.273	0.414	0.689
Assunpink Creek (2)	A	Bridge Over Water	0.04	98	0.99	0.012	0.019	0.031	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689
Assunpink Creek (2)	A	Streams And Canals	0.00	98	0.99	0.000	0.000	0.000	0.273	0.414	0.689
Assunpink Creek (2)	D	Streams And Canals	4.37	98	0.99	1.192	1.808	3.007	0.273	0.414	0.689
Assunpink Creek (2)	C	Commercial/Services	1.70	94	0.93	0.437	0.663	1.102	0.257	0.389	0.647
Assunpink Creek (2)	D	Transportation/Communication/Utilities	0.12	93	0.92	0.029	0.044	0.074	0.254	0.385	0.640
Assunpink Creek (2)	D	Transportation/Communication/Utilities	0.78	93	0.92	0.197	0.299	0.497	0.254	0.385	0.640
Assunpink Creek (2)	D	Transportation/Communication/Utilities	0.05	93	0.92	0.013	0.020	0.034	0.254	0.385	0.640
Assunpink Creek (2)	D	Wetland Rights-Of-Way	0.55	93	0.92	0.140	0.212	0.353	0.254	0.385	0.640
Assunpink Creek (2)	D	Wetland Rights-Of-Way	0.69	93	0.92	0.175	0.266	0.443	0.254	0.385	0.640
Assunpink Creek (2)	B	Commercial/Services	0.08	92	0.9	0.019	0.029	0.049	0.248	0.376	0.626
Assunpink Creek (2)	B	Commercial/Services	0.57	92	0.9	0.142	0.215	0.357	0.248	0.376	0.626
Assunpink Creek (2)	B	Commercial/Services	1.32	92	0.9	0.327	0.496	0.825	0.248	0.376	0.626
Assunpink Creek (2)	D	Industrial	0.00	93	0.9	0.000	0.000	0.000	0.248	0.376	0.626
Assunpink Creek (2)	C	Industrial	0.18	91	0.88	0.044	0.066	0.110	0.243	0.368	0.612

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	C	Industrial	1.16	91	0.88	0.280	0.425	0.707	0.243	0.368	0.612
Assunpink Creek (2)	C	Upland Rights-Of-Way Undeveloped	0.00	92	0.88	0.000	0.000	0.000	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.25	91	0.88	0.062	0.093	0.155	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.12	91	0.88	0.028	0.043	0.071	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.94	91	0.88	0.229	0.347	0.577	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	9.02	91	0.88	2.190	3.322	5.526	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.03	91	0.88	0.007	0.010	0.017	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.96	91	0.88	0.232	0.352	0.585	0.243	0.368	0.612
Assunpink Creek (2)	C	Railroads	1.83	92	0.88	0.444	0.674	1.121	0.243	0.368	0.612
Assunpink Creek (2)	C	Stormwater Basin	0.33	92	0.88	0.080	0.121	0.201	0.243	0.368	0.612
Assunpink Creek (2)	C	Transitional Areas	0.12	91	0.88	0.029	0.043	0.072	0.243	0.368	0.612
Assunpink Creek (2)	C	Transportation/Communication/Utilities	0.12	92	0.88	0.029	0.044	0.074	0.243	0.368	0.612
Assunpink Creek (2)	C	Transportation/Communication/Utilities	1.04	92	0.88	0.253	0.384	0.639	0.243	0.368	0.612
Assunpink Creek (2)	C	Upland Rights-Of-Way Undeveloped	0.00	92	0.88	0.000	0.000	0.000	0.243	0.368	0.612
Assunpink Creek (2)	C	Wetland Rights-Of-Way	0.16	92	0.88	0.040	0.060	0.100	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.04	91	0.88	0.009	0.013	0.022	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.18	91	0.88	0.043	0.065	0.109	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.00	91	0.88	0.000	0.000	0.000	0.243	0.368	0.612

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	C	Industrial	0.16	91	0.88	0.038	0.057	0.096	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.43	91	0.88	0.105	0.159	0.265	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.72	91	0.88	0.175	0.265	0.441	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	10.36	91	0.88	2.516	3.815	6.346	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	1.07	91	0.88	0.261	0.396	0.658	0.243	0.368	0.612
Assunpink Creek (2)	C	Railroads	4.22	92	0.88	1.023	1.552	2.581	0.243	0.368	0.612
Assunpink Creek (2)	C	Stormwater Basin	0.03	92	0.88	0.008	0.012	0.020	0.243	0.368	0.612
Assunpink Creek (2)	C	Transportation/Communication/Utilities	0.10	92	0.88	0.025	0.037	0.062	0.243	0.368	0.612
Assunpink Creek (2)	C	Transportation/Communication/Utilities	0.65	92	0.88	0.158	0.240	0.399	0.243	0.368	0.612
Assunpink Creek (2)	C	Transportation/Communication/Utilities	1.70	92	0.88	0.412	0.625	1.039	0.243	0.368	0.612
Assunpink Creek (2)	C	Railroads	0.00	92	0.88	0.000	0.000	0.000	0.243	0.368	0.612
Assunpink Creek (2)	C	Transportation/Communication/Utilities	0.10	92	0.88	0.025	0.038	0.062	0.243	0.368	0.612
Assunpink Creek (2)	C	Industrial	0.51	91	0.88	0.123	0.187	0.311	0.243	0.368	0.612
Assunpink Creek (2)	D	Other Urban Or Built-Up Land	0.13	88	0.84	0.030	0.046	0.077	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	0.04	89	0.84	0.009	0.013	0.022	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	1.57	89	0.84	0.364	0.552	0.918	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	1.90	89	0.84	0.439	0.666	1.108	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	0.23	89	0.84	0.054	0.082	0.136	0.232	0.351	0.584

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Commercial/Services	1.47	89	0.84	0.342	0.518	0.862	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	1.45	89	0.84	0.335	0.508	0.845	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	2.07	89	0.84	0.480	0.728	1.211	0.232	0.351	0.584
Assunpink Creek (2)	D	Other Urban Or Built-Up Land	0.00	88	0.84	0.000	0.001	0.001	0.232	0.351	0.584
Assunpink Creek (2)	D	Other Urban Or Built-Up Land	0.91	88	0.84	0.210	0.319	0.530	0.232	0.351	0.584
Assunpink Creek (2)	D	Other Urban Or Built-Up Land	0.00	88	0.84	0.001	0.001	0.002	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	2.01	89	0.84	0.465	0.705	1.173	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	0.75	89	0.84	0.174	0.264	0.439	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	0.07	89	0.84	0.015	0.023	0.039	0.232	0.351	0.584
Assunpink Creek (2)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.232	0.351	0.584
Assunpink Creek (2)	D	Other Urban Or Built-Up Land	0.00	88	0.84	0.000	0.000	0.000	0.232	0.351	0.584
Assunpink Creek (2)	D	Other Urban Or Built-Up Land	0.03	88	0.84	0.006	0.009	0.015	0.232	0.351	0.584
Assunpink Creek (2)	B	Industrial	0.02	88	0.81	0.004	0.007	0.011	0.223	0.339	0.564
Assunpink Creek (2)	B	Industrial	0.53	88	0.81	0.118	0.179	0.298	0.223	0.339	0.564
Assunpink Creek (2)	B	Industrial	5.97	88	0.81	1.333	2.022	3.364	0.223	0.339	0.564
Assunpink Creek (2)	B	Industrial	0.00	88	0.81	0.000	0.000	0.000	0.223	0.339	0.564
Assunpink Creek (2)	B	Industrial	0.01	88	0.81	0.002	0.004	0.006	0.223	0.339	0.564
Assunpink Creek (2)	B	Transportation/Communication/Utilities	1.50	89	0.81	0.336	0.510	0.848	0.223	0.339	0.564

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	B	Industrial	0.01	88	0.81	0.001	0.002	0.003	0.223	0.339	0.564
Assunpink Creek (2)	B	Industrial	5.65	88	0.81	1.262	1.914	3.184	0.223	0.339	0.564
Assunpink Creek (2)	B	Stormwater Basin	0.03	89	0.81	0.006	0.009	0.016	0.223	0.339	0.564
Assunpink Creek (2)	B	Stormwater Basin	0.11	89	0.81	0.024	0.036	0.060	0.223	0.339	0.564
Assunpink Creek (2)	B	Stormwater Basin	0.13	89	0.81	0.028	0.043	0.071	0.223	0.339	0.564
Assunpink Creek (2)	B	Transportation/Communication/Utilities	1.03	89	0.81	0.230	0.349	0.581	0.223	0.339	0.564
Assunpink Creek (2)	C	Disturbed Wetlands (Modified)	0.08	85	0.78	0.017	0.027	0.044	0.215	0.326	0.543
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	0.21	85	0.78	0.045	0.069	0.114	0.215	0.326	0.543
Assunpink Creek (2)	D	Residential, Single Unit, Medium Density	0.00	86	0.78	0.000	0.000	0.001	0.215	0.326	0.543
Assunpink Creek (2)	C	Altered Lands	1.46	85	0.78	0.315	0.478	0.795	0.215	0.326	0.543
Assunpink Creek (2)	C	Disturbed Wetlands (Modified)	0.03	85	0.78	0.006	0.009	0.015	0.215	0.326	0.543
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	0.00	85	0.78	0.000	0.000	0.000	0.215	0.326	0.543
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	0.10	85	0.78	0.021	0.032	0.053	0.215	0.326	0.543
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	2.97	85	0.78	0.639	0.968	1.611	0.215	0.326	0.543
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	0.80	85	0.78	0.173	0.262	0.435	0.215	0.326	0.543
Assunpink Creek (2)	D	Residential, Single Unit, Medium Density	0.23	86	0.78	0.049	0.074	0.123	0.215	0.326	0.543
Assunpink Creek (2)	D	Residential, Single Unit, Medium Density	0.06	86	0.78	0.012	0.018	0.030	0.215	0.326	0.543

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	D	Agricultural Wetlands (Modified)	0.03	86	0.78	0.007	0.011	0.019	0.215	0.326	0.543
Assunpink Creek (2)	C	Altered Lands	9.55	85	0.78	2.056	3.117	5.185	0.215	0.326	0.543
Assunpink Creek (2)	C	Altered Lands	0.00	85	0.78	0.000	0.000	0.000	0.215	0.326	0.543
Assunpink Creek (2)	C	Altered Lands	0.00	85	0.78	0.000	0.000	0.000	0.215	0.326	0.543
Assunpink Creek (2)	C	Disturbed Wetlands (Modified)	0.22	85	0.78	0.048	0.073	0.122	0.215	0.326	0.543
Assunpink Creek (2)	C	Disturbed Wetlands (Modified)	0.53	85	0.78	0.115	0.175	0.290	0.215	0.326	0.543
Assunpink Creek (2)	C	Disturbed Wetlands (Modified)	0.34	85	0.78	0.073	0.111	0.185	0.215	0.326	0.543
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	0.08	85	0.78	0.018	0.027	0.046	0.215	0.326	0.543
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	1.95	85	0.78	0.420	0.637	1.060	0.215	0.326	0.543
Assunpink Creek (2)	D	Residential, Single Unit, Medium Density	0.00	86	0.78	0.000	0.000	0.000	0.215	0.326	0.543
Assunpink Creek (2)	D	Residential, Single Unit, Medium Density	0.00	86	0.78	0.001	0.001	0.001	0.215	0.326	0.543
Assunpink Creek (2)	B	Transitional Areas	0.15	86	0.77	0.031	0.047	0.079	0.212	0.322	0.536
Assunpink Creek (2)	B	Transitional Areas	2.27	86	0.77	0.483	0.732	1.217	0.212	0.322	0.536
Assunpink Creek (2)	B	Transitional Areas	0.21	86	0.77	0.046	0.069	0.115	0.212	0.322	0.536
Assunpink Creek (2)	B	Transitional Areas	0.46	86	0.77	0.098	0.149	0.248	0.212	0.322	0.536
Assunpink Creek (2)	B	Transitional Areas	0.08	86	0.77	0.018	0.027	0.046	0.212	0.322	0.536
Assunpink Creek (2)	B	Transitional Areas	0.80	86	0.77	0.169	0.257	0.428	0.212	0.322	0.536

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	B	Transitional Areas	0.27	86	0.77	0.057	0.086	0.143	0.212	0.322	0.536
Assunpink Creek (2)	D	Residential, Single Unit, Low Density	0.15	85	0.76	0.032	0.048	0.081	0.210	0.318	0.529
Assunpink Creek (2)	D	Residential, Single Unit, Low Density	0.01	85	0.76	0.001	0.002	0.003	0.210	0.318	0.529
Assunpink Creek (2)	D	Residential, Single Unit, Low Density	0.25	85	0.76	0.052	0.078	0.130	0.210	0.318	0.529
Assunpink Creek (2)	D	Residential, Single Unit, Low Density	3.55	85	0.76	0.743	1.127	1.875	0.210	0.318	0.529
Assunpink Creek (2)	D	Residential, Single Unit, Low Density	0.04	85	0.76	0.007	0.011	0.019	0.210	0.318	0.529
Assunpink Creek (2)	D	Residential, Rural, Single Unit	0.19	84	0.74	0.038	0.058	0.096	0.204	0.310	0.515
Assunpink Creek (2)	D	Residential, Rural, Single Unit	1.11	84	0.74	0.226	0.343	0.570	0.204	0.310	0.515
Assunpink Creek (2)	D	Residential, Rural, Single Unit	0.01	84	0.74	0.003	0.004	0.007	0.204	0.310	0.515
Assunpink Creek (2)	D	Residential, Rural, Single Unit	0.00	84	0.74	0.001	0.001	0.002	0.204	0.310	0.515
Assunpink Creek (2)	D	Residential, Rural, Single Unit	0.05	84	0.74	0.011	0.017	0.028	0.204	0.310	0.515
Assunpink Creek (2)	D	Residential, Rural, Single Unit	0.87	84	0.74	0.178	0.270	0.450	0.204	0.310	0.515
Assunpink Creek (2)	A	Railroads	0.78	83	0.68	0.146	0.221	0.367	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.53	83	0.68	0.100	0.151	0.251	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.12	83	0.68	0.023	0.035	0.058	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	1.59	83	0.68	0.298	0.453	0.753	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	1.10	83	0.68	0.206	0.312	0.520	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.27	83	0.68	0.051	0.077	0.128	0.188	0.284	0.473

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Transportation/Communication/Utilities	1.08	83	0.68	0.203	0.308	0.513	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	1.80	83	0.68	0.338	0.512	0.852	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.90	83	0.68	0.168	0.255	0.425	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	6.87	83	0.68	1.289	1.955	3.251	0.188	0.284	0.473
Assunpink Creek (2)	C	Agricultural Wetlands (Modified)	0.12	82	0.68	0.023	0.034	0.057	0.188	0.284	0.473
Assunpink Creek (2)	C	Agricultural Wetlands (Modified)	0.12	82	0.68	0.022	0.034	0.056	0.188	0.284	0.473
Assunpink Creek (2)	A	Railroads	0.32	83	0.68	0.061	0.092	0.153	0.188	0.284	0.473
Assunpink Creek (2)	A	Railroads	0.00	83	0.68	0.000	0.000	0.000	0.188	0.284	0.473
Assunpink Creek (2)	A	Railroads	2.12	83	0.68	0.398	0.603	1.003	0.188	0.284	0.473
Assunpink Creek (2)	A	Railroads	0.55	83	0.68	0.103	0.156	0.259	0.188	0.284	0.473
Assunpink Creek (2)	A	Railroads	1.72	83	0.68	0.322	0.489	0.813	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.12	83	0.68	0.022	0.033	0.055	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.23	83	0.68	0.043	0.065	0.107	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.84	83	0.68	0.158	0.239	0.398	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.03	83	0.68	0.005	0.008	0.013	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.06	83	0.68	0.011	0.017	0.029	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.67	83	0.68	0.126	0.191	0.318	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.06	83	0.68	0.011	0.017	0.028	0.188	0.284	0.473

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Stormwater Basin	0.50	83	0.68	0.094	0.143	0.238	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.40	83	0.68	0.075	0.113	0.188	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.47	83	0.68	0.089	0.134	0.223	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.69	83	0.68	0.130	0.198	0.329	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.02	83	0.68	0.003	0.005	0.008	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	1.51	83	0.68	0.283	0.430	0.715	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	2.44	83	0.68	0.458	0.695	1.155	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.31	83	0.68	0.058	0.088	0.146	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.13	83	0.68	0.025	0.038	0.063	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	3.87	83	0.68	0.726	1.101	1.831	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.02	83	0.68	0.003	0.004	0.007	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	1.85	83	0.68	0.348	0.527	0.877	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.20	83	0.68	0.037	0.057	0.095	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.03	83	0.68	0.005	0.008	0.013	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.05	83	0.68	0.009	0.014	0.023	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.30	83	0.68	0.056	0.085	0.142	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.42	83	0.68	0.078	0.118	0.197	0.188	0.284	0.473
Assunpink Creek (2)	A	Railroads	2.35	83	0.68	0.441	0.670	1.114	0.188	0.284	0.473

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Railroads	0.32	83	0.68	0.060	0.091	0.152	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	1.29	83	0.68	0.242	0.366	0.610	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.26	83	0.68	0.048	0.073	0.122	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.01	83	0.68	0.001	0.002	0.003	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.03	83	0.68	0.005	0.008	0.013	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.25	83	0.68	0.046	0.070	0.117	0.188	0.284	0.473
Assunpink Creek (2)	A	Stormwater Basin	0.80	83	0.68	0.150	0.228	0.380	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.51	83	0.68	0.095	0.144	0.240	0.188	0.284	0.473
Assunpink Creek (2)	A	Transportation/Communication/Utilities	1.01	83	0.68	0.190	0.288	0.479	0.188	0.284	0.473
Assunpink Creek (2)	A	Industrial	0.54	81	0.67	0.101	0.152	0.254	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.06	81	0.67	0.012	0.018	0.029	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	12.09	81	0.67	2.234	3.388	5.635	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.09	81	0.67	0.016	0.024	0.041	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.14	81	0.67	0.026	0.039	0.065	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.50	81	0.67	0.093	0.141	0.234	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	2.57	81	0.67	0.474	0.719	1.196	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	4.99	81	0.67	0.922	1.398	2.326	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	3.93	81	0.67	0.727	1.103	1.834	0.185	0.280	0.466

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Industrial	0.79	81	0.67	0.145	0.220	0.367	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.01	81	0.67	0.003	0.004	0.007	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	4.66	81	0.67	0.860	1.305	2.170	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	9.41	81	0.67	1.739	2.637	4.386	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	1.24	81	0.67	0.230	0.349	0.580	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.15	81	0.67	0.028	0.043	0.072	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.08	81	0.67	0.015	0.023	0.038	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.19	81	0.67	0.035	0.053	0.088	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.39	81	0.67	0.072	0.109	0.182	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	2.37	81	0.67	0.439	0.665	1.107	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.13	81	0.67	0.024	0.037	0.061	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.001	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.38	81	0.67	0.071	0.107	0.178	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.02	81	0.67	0.004	0.007	0.011	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.51	81	0.67	0.094	0.143	0.237	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.02	81	0.67	0.003	0.004	0.007	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.49	81	0.67	0.090	0.137	0.228	0.185	0.280	0.466

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Industrial	0.64	81	0.67	0.118	0.179	0.298	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	6.18	81	0.67	1.142	1.732	2.881	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.03	81	0.67	0.005	0.008	0.013	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	4.95	81	0.67	0.915	1.388	2.309	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	5.66	81	0.67	1.046	1.587	2.639	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.41	81	0.67	0.075	0.114	0.189	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.23	81	0.67	0.043	0.065	0.109	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	2.68	81	0.67	0.495	0.751	1.249	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.59	81	0.67	0.108	0.164	0.273	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.21	81	0.67	0.039	0.059	0.098	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.39	81	0.67	0.071	0.108	0.180	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.01	81	0.67	0.002	0.002	0.004	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	3.77	81	0.67	0.697	1.057	1.758	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	4.11	81	0.67	0.759	1.152	1.916	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.17	81	0.67	0.031	0.047	0.078	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.27	81	0.67	0.051	0.077	0.128	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	3.28	81	0.67	0.606	0.918	1.527	0.185	0.280	0.466

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Industrial	0.87	81	0.67	0.161	0.244	0.406	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.001	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.93	81	0.67	0.172	0.261	0.434	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.08	81	0.67	0.016	0.024	0.039	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	1.51	81	0.67	0.280	0.424	0.706	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.80	81	0.67	0.148	0.225	0.374	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.04	81	0.67	0.007	0.011	0.019	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.03	81	0.67	0.005	0.008	0.013	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	30.19	81	0.67	5.579	8.462	14.075	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.33	81	0.67	0.061	0.093	0.154	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.10	81	0.67	0.019	0.028	0.047	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.22	81	0.67	0.041	0.062	0.104	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.20	81	0.67	0.038	0.057	0.095	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.78	81	0.67	0.145	0.219	0.365	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	17.02	81	0.67	3.145	4.770	7.934	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.02	81	0.67	0.003	0.005	0.008	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.50	81	0.67	0.093	0.141	0.235	0.185	0.280	0.466

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Industrial	4.08	81	0.67	0.754	1.144	1.903	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	7.80	81	0.67	1.442	2.187	3.638	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.11	81	0.67	0.020	0.031	0.051	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	1.66	81	0.67	0.306	0.464	0.772	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.96	81	0.67	0.178	0.270	0.449	0.185	0.280	0.466
Assunpink Creek (2)	A	Industrial	0.05	81	0.67	0.009	0.013	0.022	0.185	0.280	0.466
Assunpink Creek (2)	C	Residential, Rural, Single Unit	0.79	79	0.63	0.137	0.208	0.347	0.174	0.264	0.438
Assunpink Creek (2)	D	Deciduous Forest (>50% Crown Closure)	0.14	79	0.62	0.024	0.037	0.061	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Forest (>50% Crown Closure)	0.14	79	0.62	0.024	0.036	0.060	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Brush/Shrubland	0.23	79	0.62	0.040	0.060	0.101	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Forest (>50% Crown Closure)	0.79	79	0.62	0.135	0.204	0.340	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Forest (>50% Crown Closure)	0.11	79	0.62	0.019	0.029	0.048	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Forest (>50% Crown Closure)	0.00	79	0.62	0.000	0.000	0.000	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Forest (>50% Crown Closure)	0.00	79	0.62	0.000	0.000	0.000	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Forest (>50% Crown Closure)	1.51	79	0.62	0.259	0.393	0.654	0.171	0.259	0.431

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	D	Deciduous Forest (>50% Crown Closure)	0.01	79	0.62	0.002	0.002	0.004	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Forest (10-50% Crown Closure)	0.19	79	0.62	0.032	0.049	0.081	0.171	0.259	0.431
Assunpink Creek (2)	D	Deciduous Forest (10-50% Crown Closure)	1.23	79	0.62	0.210	0.318	0.529	0.171	0.259	0.431
Assunpink Creek (2)	D	Herbaceous Wetlands	0.89	78	0.61	0.150	0.227	0.377	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	1.42	78	0.61	0.239	0.362	0.602	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.07	78	0.61	0.012	0.019	0.031	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	1.63	78	0.61	0.275	0.417	0.693	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	1.02	78	0.61	0.171	0.259	0.431	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.21	78	0.61	0.036	0.054	0.090	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.59	78	0.61	0.099	0.150	0.249	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.15	78	0.61	0.026	0.039	0.065	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.21	78	0.61	0.035	0.053	0.088	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.06	78	0.61	0.010	0.015	0.025	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.92	78	0.61	0.154	0.234	0.389	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.01	78	0.61	0.001	0.002	0.004	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.30	78	0.61	0.050	0.076	0.127	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.16	78	0.61	0.028	0.042	0.070	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.12	78	0.61	0.021	0.031	0.052	0.168	0.255	0.424

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Assunpink Creek (2)	D	Herbaceous Wetlands	0.07	78	0.61	0.012	0.019	0.031	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.08	78	0.61	0.013	0.020	0.033	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.97	78	0.61	0.163	0.247	0.411	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.20	78	0.61	0.034	0.052	0.086	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.13	78	0.61	0.021	0.032	0.053	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	5.71	78	0.61	0.961	1.457	2.424	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.86	78	0.61	0.145	0.220	0.366	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.00	78	0.61	0.000	0.000	0.000	0.168	0.255	0.424
Assunpink Creek (2)	D	Herbaceous Wetlands	0.88	78	0.61	0.149	0.226	0.375	0.168	0.255	0.424
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	1.27	77	0.6	0.211	0.320	0.532	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	2.97	77	0.6	0.492	0.747	1.242	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.58	77	0.6	0.096	0.145	0.241	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	1.00	77	0.6	0.165	0.250	0.416	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.03	77	0.6	0.005	0.008	0.013	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.00	77	0.6	0.000	0.000	0.000	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.79	77	0.6	0.131	0.199	0.332	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.96	77	0.6	0.158	0.240	0.399	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	4.58	77	0.6	0.758	1.150	1.913	0.165	0.251	0.417

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Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.00	77	0.6	0.000	0.000	0.000	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.34	77	0.6	0.056	0.085	0.142	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.60	77	0.6	0.099	0.151	0.251	0.165	0.251	0.417
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	4.25	77	0.6	0.703	1.066	1.772	0.165	0.251	0.417
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	2.20	77	0.59	0.358	0.543	0.903	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Scrub/Shrub Wetlands	0.89	77	0.59	0.145	0.221	0.367	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Scrub/Shrub Wetlands	0.21	77	0.59	0.035	0.053	0.088	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Scrub/Shrub Wetlands	2.11	77	0.59	0.344	0.521	0.867	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Scrub/Shrub Wetlands	0.04	77	0.59	0.007	0.011	0.018	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	1.42	77	0.59	0.231	0.350	0.582	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	1.15	77	0.59	0.188	0.285	0.473	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.97	77	0.59	0.158	0.239	0.398	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.42	77	0.59	0.069	0.104	0.173	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.11	77	0.59	0.017	0.027	0.044	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.13	77	0.59	0.022	0.033	0.054	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.17	77	0.59	0.028	0.042	0.070	0.163	0.247	0.411

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.35	77	0.59	0.057	0.086	0.144	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.04	77	0.59	0.006	0.009	0.015	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.13	77	0.59	0.021	0.031	0.052	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.03	77	0.59	0.005	0.007	0.012	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.03	77	0.59	0.004	0.007	0.011	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.10	77	0.59	0.017	0.025	0.042	0.163	0.247	0.411
Assunpink Creek (2)	D	Mixed Scrub/Shrub Wetlands (Deciduous Dom.)	0.20	77	0.59	0.033	0.050	0.082	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	1.59	77	0.59	0.259	0.393	0.654	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	1.72	77	0.59	0.281	0.425	0.708	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.06	77	0.59	0.010	0.015	0.025	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.67	77	0.59	0.109	0.165	0.275	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.38	77	0.59	0.061	0.093	0.154	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	22.60	77	0.59	3.678	5.578	9.278	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.70	77	0.59	0.113	0.172	0.286	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.26	77	0.59	0.043	0.065	0.108	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	1.31	77	0.59	0.213	0.323	0.537	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	1.74	77	0.59	0.283	0.429	0.714	0.163	0.247	0.411

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Assunpink Creek (2)	A	Transitional Areas	0.03	77	0.59	0.005	0.008	0.014	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Scrub/Shrub Wetlands	0.20	77	0.59	0.033	0.050	0.084	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Scrub/Shrub Wetlands	0.01	77	0.59	0.001	0.001	0.002	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	4.38	77	0.59	0.712	1.080	1.796	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	1.77	77	0.59	0.288	0.437	0.727	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.06	77	0.59	0.009	0.014	0.024	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.39	77	0.59	0.064	0.097	0.161	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.79	77	0.59	0.128	0.194	0.323	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.02	77	0.59	0.003	0.005	0.009	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	9.08	77	0.59	1.478	2.242	3.729	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.77	77	0.59	0.126	0.191	0.317	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	2.41	77	0.59	0.393	0.596	0.991	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	2.14	77	0.59	0.348	0.527	0.877	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.82	77	0.59	0.133	0.202	0.335	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.09	77	0.59	0.015	0.023	0.039	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.163	0.247	0.411
Assunpink Creek (2)	C	Orchards/Vineyards/Nurseries/Horticultural Areas	0.00	77	0.59	0.000	0.000	0.000	0.163	0.247	0.411

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	C	Orchards/Vineyards/Nurseries/Horticultural Areas	0.09	77	0.59	0.014	0.021	0.035	0.163	0.247	0.411
Assunpink Creek (2)	D	Phragmites Dominate Interior Wetlands	0.91	78	0.59	0.147	0.223	0.372	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.83	77	0.59	0.135	0.205	0.340	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	3.42	77	0.59	0.556	0.843	1.403	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.04	77	0.59	0.006	0.010	0.016	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.02	77	0.59	0.003	0.005	0.008	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.42	77	0.59	0.069	0.104	0.173	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	1.78	77	0.59	0.290	0.440	0.732	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	1.07	77	0.59	0.174	0.263	0.438	0.163	0.247	0.411
Assunpink Creek (2)	A	Transitional Areas	0.00	77	0.59	0.000	0.000	0.000	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.58	77	0.59	0.094	0.143	0.237	0.163	0.247	0.411
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.66	77	0.59	0.108	0.163	0.272	0.163	0.247	0.411
Assunpink Creek (2)	B	Agricultural Wetlands (Modified)	0.16	74	0.53	0.023	0.035	0.059	0.146	0.222	0.369
Assunpink Creek (2)	B	Agricultural Wetlands (Modified)	0.91	74	0.53	0.132	0.201	0.334	0.146	0.222	0.369
Assunpink Creek (2)	C	Deciduous Forest (>50% Crown Closure)	0.01	73	0.51	0.001	0.002	0.003	0.141	0.213	0.355
Assunpink Creek (2)	C	Deciduous Forest (10-50% Crown Closure)	3.70	73	0.51	0.521	0.790	1.314	0.141	0.213	0.355
Assunpink Creek (2)	C	Deciduous Forest (10-50% Crown Closure)	0.00	73	0.51	0.000	0.000	0.000	0.141	0.213	0.355

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Assunpink Creek (2)	C	Coniferous Forest (>50% Crown Closure)	0.00	73	0.51	0.000	0.000	0.000	0.141	0.213	0.355
Assunpink Creek (2)	C	Coniferous Forest (>50% Crown Closure)	0.23	73	0.51	0.033	0.049	0.082	0.141	0.213	0.355
Assunpink Creek (2)	C	Cropland And Pastureland	0.14	79	0.51	0.020	0.030	0.049	0.141	0.213	0.355
Assunpink Creek (2)	C	Deciduous Brush/Shrubland	0.75	73	0.51	0.105	0.159	0.265	0.141	0.213	0.355
Assunpink Creek (2)	C	Deciduous Brush/Shrubland	0.13	73	0.51	0.018	0.027	0.045	0.141	0.213	0.355
Assunpink Creek (2)	C	Deciduous Brush/Shrubland	0.86	73	0.51	0.120	0.182	0.304	0.141	0.213	0.355
Assunpink Creek (2)	C	Deciduous Forest (>50% Crown Closure)	0.03	73	0.51	0.005	0.007	0.012	0.141	0.213	0.355
Assunpink Creek (2)	C	Deciduous Forest (10-50% Crown Closure)	1.06	73	0.51	0.149	0.227	0.377	0.141	0.213	0.355
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	4.36	72	0.49	0.589	0.893	1.486	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	0.87	72	0.49	0.118	0.178	0.297	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	0.02	72	0.49	0.003	0.005	0.008	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	4.32	72	0.49	0.584	0.886	1.473	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	7.57	72	0.49	1.023	1.552	2.582	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	3.08	72	0.49	0.417	0.632	1.052	0.135	0.205	0.341

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Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	2.39	72	0.49	0.323	0.490	0.815	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	1.53	72	0.49	0.207	0.315	0.523	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	1.89	72	0.49	0.255	0.387	0.643	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	0.02	72	0.49	0.003	0.004	0.007	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	7.61	72	0.49	1.029	1.561	2.596	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	1.21	72	0.49	0.163	0.247	0.411	0.135	0.205	0.341
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	53.05	72	0.49	7.171	10.875	18.089	0.135	0.205	0.341
Assunpink Creek (2)	C	Deciduous Wooded Wetlands	0.03	70	0.45	0.003	0.005	0.008	0.124	0.188	0.313
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	3.55	70	0.45	0.440	0.668	1.111	0.124	0.188	0.313
Assunpink Creek (2)	B	Cropland And Pastureland	2.08	69	0.45	0.258	0.391	0.651	0.124	0.188	0.313
Assunpink Creek (2)	C	Deciduous Wooded Wetlands	0.29	70	0.45	0.036	0.054	0.090	0.124	0.188	0.313
Assunpink Creek (2)	C	Deciduous Wooded Wetlands	1.85	70	0.45	0.229	0.348	0.578	0.124	0.188	0.313
Assunpink Creek (2)	B	Recreational Land	1.56	69	0.45	0.194	0.294	0.489	0.124	0.188	0.313
Assunpink Creek (2)	C	Deciduous Scrub/Shrub Wetlands	2.69	70	0.45	0.334	0.506	0.841	0.124	0.188	0.313
Assunpink Creek (2)	C	Deciduous Wooded Wetlands	0.02	70	0.45	0.002	0.003	0.005	0.124	0.188	0.313

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Assunpink Creek (2)	C	Deciduous Wooded Wetlands	0.19	70	0.45	0.023	0.035	0.059	0.124	0.188	0.313
Assunpink Creek (2)	C	Herbaceous Wetlands	0.10	71	0.45	0.013	0.020	0.033	0.124	0.188	0.313
Assunpink Creek (2)	B	Recreational Land	0.82	69	0.45	0.101	0.153	0.255	0.124	0.188	0.313
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	6.65	70	0.45	0.825	1.252	2.082	0.124	0.188	0.313
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	2.79	70	0.45	0.347	0.526	0.875	0.124	0.188	0.313
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	0.01	70	0.45	0.002	0.003	0.004	0.124	0.188	0.313
Assunpink Creek (2)	C	Deciduous Wooded Wetlands	0.13	70	0.45	0.016	0.024	0.041	0.124	0.188	0.313
Assunpink Creek (2)	C	Deciduous Wooded Wetlands	0.52	70	0.45	0.065	0.098	0.163	0.124	0.188	0.313
Assunpink Creek (2)	C	Herbaceous Wetlands	0.37	71	0.45	0.046	0.070	0.117	0.124	0.188	0.313
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	1.30	70	0.45	0.161	0.245	0.407	0.124	0.188	0.313
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	0.00	70	0.45	0.000	0.000	0.000	0.124	0.188	0.313
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.13	68	0.41	0.014	0.021	0.036	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	5.32	68	0.41	0.602	0.913	1.518	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	2.75	68	0.41	0.311	0.472	0.785	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	8.73	68	0.41	0.987	1.497	2.490	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	5.89	68	0.41	0.666	1.010	1.679	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.35	68	0.41	0.040	0.060	0.100	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	27.41	68	0.41	3.100	4.701	7.820	0.113	0.172	0.285

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Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.02	68	0.41	0.003	0.004	0.007	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.45	68	0.41	0.050	0.076	0.127	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.11	68	0.41	0.012	0.018	0.031	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.12	68	0.41	0.013	0.020	0.034	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	1.27	68	0.41	0.143	0.217	0.362	0.113	0.172	0.285
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.113	0.172	0.285
Assunpink Creek (2)	A	Disturbed Wetlands (Modified)	0.02	63	0.28	0.001	0.002	0.004	0.077	0.117	0.195
Assunpink Creek (2)	A	Disturbed Wetlands (Modified)	0.01	63	0.28	0.001	0.001	0.002	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.04	63	0.28	0.003	0.005	0.009	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.09	63	0.28	0.007	0.010	0.017	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.17	63	0.28	0.013	0.020	0.033	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.19	63	0.28	0.015	0.022	0.037	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	6.44	63	0.28	0.497	0.754	1.254	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	2.02	63	0.28	0.156	0.237	0.394	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.98	63	0.28	0.076	0.115	0.191	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.86	63	0.28	0.066	0.100	0.167	0.077	0.117	0.195

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Assunpink Creek (2)	A	Other Urban Or Built-Up Land	1.22	63	0.28	0.094	0.143	0.238	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.25	63	0.28	0.019	0.029	0.048	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.08	63	0.28	0.006	0.010	0.016	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	3.66	63	0.28	0.282	0.428	0.712	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.85	63	0.28	0.066	0.100	0.166	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	1.52	63	0.28	0.117	0.178	0.296	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.48	63	0.28	0.037	0.057	0.094	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	3.29	63	0.28	0.254	0.386	0.641	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	1.10	63	0.28	0.085	0.129	0.215	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.89	63	0.28	0.069	0.105	0.174	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.04	63	0.28	0.003	0.005	0.008	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.05	63	0.28	0.004	0.006	0.011	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	1.96	63	0.28	0.151	0.229	0.381	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	1.50	63	0.28	0.116	0.176	0.292	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.18	63	0.28	0.014	0.021	0.035	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.76	63	0.28	0.059	0.089	0.148	0.077	0.117	0.195

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Assunpink Creek (2)	A	Other Urban Or Built-Up Land	4.17	63	0.28	0.322	0.488	0.812	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.01	63	0.28	0.001	0.002	0.003	0.077	0.117	0.195
Assunpink Creek (2)	A	Altered Lands	5.94	63	0.28	0.459	0.696	1.157	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.74	63	0.28	0.057	0.086	0.144	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.03	63	0.28	0.002	0.003	0.005	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.12	63	0.28	0.010	0.014	0.024	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.02	63	0.28	0.002	0.003	0.004	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.03	63	0.28	0.002	0.003	0.006	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.02	63	0.28	0.002	0.002	0.004	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.33	63	0.28	0.025	0.038	0.064	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.05	63	0.28	0.004	0.006	0.010	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.01	63	0.28	0.001	0.001	0.002	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.03	63	0.28	0.002	0.004	0.006	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	1.06	63	0.28	0.082	0.124	0.206	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.40	63	0.28	0.031	0.047	0.078	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.72	63	0.28	0.055	0.084	0.140	0.077	0.117	0.195

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.06	63	0.28	0.004	0.007	0.011	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.40	63	0.28	0.031	0.047	0.078	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	4.29	63	0.28	0.331	0.502	0.835	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	1.92	63	0.28	0.148	0.225	0.374	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	5.71	63	0.28	0.441	0.669	1.113	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.46	63	0.28	0.035	0.054	0.089	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.17	63	0.28	0.013	0.019	0.032	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.09	63	0.28	0.007	0.010	0.017	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.27	63	0.28	0.020	0.031	0.052	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	1.37	63	0.28	0.106	0.161	0.267	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.07	63	0.28	0.005	0.008	0.013	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.60	63	0.28	0.047	0.071	0.118	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.40	63	0.28	0.031	0.046	0.077	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.32	63	0.28	0.025	0.037	0.062	0.077	0.117	0.195

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.07	63	0.28	0.006	0.009	0.014	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.60	63	0.28	0.046	0.070	0.116	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.14	63	0.28	0.011	0.016	0.027	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.12	63	0.28	0.009	0.014	0.023	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.84	63	0.28	0.065	0.099	0.164	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.65	63	0.28	0.050	0.076	0.126	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	5.61	63	0.28	0.433	0.657	1.093	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.08	63	0.28	0.006	0.009	0.015	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	2.88	63	0.28	0.223	0.338	0.561	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.21	63	0.28	0.016	0.025	0.041	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.13	63	0.28	0.010	0.015	0.024	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	4.61	63	0.28	0.356	0.540	0.899	0.077	0.117	0.195
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.53	63	0.28	0.041	0.062	0.104	0.077	0.117	0.195
Assunpink Creek (2)	B	Deciduous Brush/Shrubland	0.81	60	0.25	0.056	0.085	0.141	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.53	60	0.25	0.037	0.056	0.093	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (10-50% Crown Closure)	1.38	60	0.25	0.095	0.144	0.240	0.069	0.105	0.174

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	B	Deciduous Brush/Shrubland	1.46	60	0.25	0.100	0.152	0.253	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Brush/Shrubland	0.06	60	0.25	0.004	0.006	0.011	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.001	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.08	60	0.25	0.006	0.009	0.014	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.01	60	0.25	0.000	0.001	0.001	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	1.06	60	0.25	0.073	0.111	0.184	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.36	60	0.25	0.025	0.038	0.063	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (10-50% Crown Closure)	0.11	60	0.25	0.007	0.011	0.019	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (10-50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.09	60	0.25	0.006	0.010	0.016	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.069	0.105	0.174
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.04	55	0.15	0.002	0.002	0.004	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Scrub/Shrub Wetlands	0.04	55	0.15	0.001	0.002	0.004	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.67	55	0.15	0.028	0.042	0.070	0.041	0.063	0.104

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.09	55	0.15	0.004	0.006	0.010	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.57	55	0.15	0.024	0.036	0.060	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.11	55	0.15	0.004	0.007	0.011	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.01	55	0.15	0.000	0.000	0.001	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.04	55	0.15	0.002	0.002	0.004	0.041	0.063	0.104
Assunpink Creek (2)	B	Herbaceous Wetlands	0.09	58	0.15	0.004	0.005	0.009	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Scrub/Shrub Wetlands	0.27	55	0.15	0.011	0.017	0.029	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Scrub/Shrub Wetlands	0.20	55	0.15	0.008	0.013	0.021	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.15	55	0.15	0.006	0.009	0.016	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.75	55	0.15	0.031	0.047	0.078	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.04	55	0.15	0.002	0.002	0.004	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.55	55	0.15	0.023	0.035	0.058	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.47	55	0.15	0.019	0.029	0.049	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.04	55	0.15	0.002	0.003	0.004	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.18	55	0.15	0.007	0.011	0.018	0.041	0.063	0.104

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.04	55	0.15	0.002	0.002	0.004	0.041	0.063	0.104
Assunpink Creek (2)	B	Herbaceous Wetlands	0.00	58	0.15	0.000	0.000	0.000	0.041	0.063	0.104
Assunpink Creek (2)	A	Residential, Single Unit, Low Density	1.30	54	0.15	0.054	0.082	0.136	0.041	0.063	0.104
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	1.03	57	0.12	0.034	0.052	0.086	0.033	0.050	0.083
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	25.91	57	0.12	0.857	1.300	2.163	0.033	0.050	0.083
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	0.03	57	0.12	0.001	0.001	0.002	0.033	0.050	0.083
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	19.57	57	0.12	0.648	0.983	1.634	0.033	0.050	0.083
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	0.33	57	0.12	0.011	0.017	0.028	0.033	0.050	0.083
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	0.09	57	0.12	0.003	0.005	0.008	0.033	0.050	0.083
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	16.41	57	0.12	0.543	0.824	1.370	0.033	0.050	0.083
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	0.01	57	0.12	0.000	0.001	0.001	0.033	0.050	0.083
Assunpink Creek (2)	A	Residential, Rural, Single Unit	0.02	51	0.11	0.001	0.001	0.002	0.030	0.046	0.077
Assunpink Creek (2)	A	Recreational Land	0.97	49	0.1	0.027	0.041	0.068	0.028	0.042	0.070
Assunpink Creek (2)	A	Recreational Land	0.56	49	0.1	0.015	0.023	0.039	0.028	0.042	0.070
Assunpink Creek (2)	A	Recreational Land	0.75	49	0.1	0.021	0.031	0.052	0.028	0.042	0.070

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Recreational Land	1.55	49	0.1	0.043	0.065	0.108	0.028	0.042	0.070
Assunpink Creek (2)	A	Altered Lands	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Altered Lands	0.00	85	0.78	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Altered Lands	0.00	85	0.78	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Bridge Over Water	0.00	98	0.99	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Commercial/Services	0.00	89	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Commercial/Services	0.00	94	0.93	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Commercial/Services	0.00	95	0.96	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Cropland And Pastureland	0.00	69	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Brush/Shrubland	0.54	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Brush/Shrubland	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Brush/Shrubland	1.53	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Brush/Shrubland	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Deciduous Brush/Shrubland	0.16	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Brush/Shrubland	3.89	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Brush/Shrubland	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	2.34	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	0.11	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	0.01	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	2.10	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	2.61	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	0.02	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	0.04	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	4.12	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	0.31	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	0.19	36	0	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	2.46	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (>50% Crown Closure)	0.00	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Forest (>50% Crown Closure)	0.00	60	0.25	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (10-50% Crown Closure)	3.06	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (10-50% Crown Closure)	0.56	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (10-50% Crown Closure)	0.52	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Forest (10-50% Crown Closure)	0.15	36	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Deciduous Forest (10-50% Crown Closure)	0.00	73	0.51	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Scrub/Shrub Wetlands	1.60	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Scrub/Shrub Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Scrub/Shrub Wetlands	0.95	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Scrub/Shrub Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Deciduous Scrub/Shrub Wetlands	0.00	70	0.45	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	D	Deciduous Scrub/Shrub Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Deciduous Scrub/Shrub Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.03	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	2.27	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	10.84	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.40	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.01	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.08	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.02	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.74	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Deciduous Wooded Wetlands	0.52	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Deciduous Wooded Wetlands	0.00	55	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Deciduous Wooded Wetlands	0.00	70	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Deciduous Wooded Wetlands	0.00	70	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Deciduous Wooded Wetlands	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Disturbed Wetlands (Modified)	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Herbaceous Wetlands	0.06	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Herbaceous Wetlands	0.05	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Herbaceous Wetlands	0.26	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000



Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Industrial	0.00	81	0.67	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Industrial	0.00	88	0.81	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Industrial	0.00	91	0.88	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Industrial	0.00	91	0.88	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Industrial	0.00	91	0.88	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.23	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	4.43	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.13	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	2.25	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000

<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.03	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Managed Wetland In Maintained Lawn Greenspace	0.00	30	0	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Other Urban Or Built-Up Land	0.00	63	0.28	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.00	77	0.6	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.00	77	0.6	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Other Urban Or Built-Up Land	0.00	77	0.6	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	0.00	85	0.78	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	C	Other Urban Or Built-Up Land	0.00	85	0.78	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Other Urban Or Built-Up Land	0.00	88	0.84	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Railroads	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Railroads	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Railroads	0.00	93	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Railroads	0.00	93	0.9	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000

Watershed	HSG	Land Use Category	Acres	CN	Runoff Coefficient	2 yr Discharge (acre-ft)	10 yr Discharge (acre-ft)	100 yr Discharge (acre-ft)	Normalized 2 yr Discharge (acre-ft/acres)	Normalized 10 yr Discharge (acre-ft/acres)	Normalized 100 yr Discharge (acre-ft/acres)
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Rural, Single Unit	0.00	68	0.41	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Residential, Rural, Single Unit	0.00	84	0.74	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Residential, Single Unit, Low Density	0.00	54	0.15	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	0.00	70	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	0.00	70	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Single Unit, Low Density	0.00	70	0.45	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Residential, Single Unit, Low Density	0.00	85	0.76	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	0.00	57	0.12	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Residential, Single Unit, Medium Density	0.00	57	0.12	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Residential, Single Unit, Medium Density	0.00	72	0.49	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Stormwater Basin	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Stormwater Basin	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Stormwater Basin	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000



<b>Watershed</b>	<b>HSG</b>	<b>Land Use Category</b>	<b>Acres</b>	<b>CN</b>	<b>Runoff Coefficient</b>	<b>2 yr Discharge (acre-ft)</b>	<b>10 yr Discharge (acre-ft)</b>	<b>100 yr Discharge (acre-ft)</b>	<b>Normalized 2 yr Discharge (acre-ft/acres)</b>	<b>Normalized 10 yr Discharge (acre-ft/acres)</b>	<b>Normalized 100 yr Discharge (acre-ft/acres)</b>
Assunpink Creek (2)	A	Transitional Areas	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Transitional Areas	0.00	77	0.59	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Transitional Areas	0.00	86	0.77	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Transitional Areas	0.00	86	0.77	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Transitional Areas	0.00	86	0.77	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	B	Transitional Areas	0.00	86	0.77	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	A	Transportation/Communication/Utilities	0.00	83	0.68	0.000	0.000	0.000	0.000	0.000	0.000
Assunpink Creek (2)	D	Transportation/Communication/Utilities	0.00	93	0.92	0.000	0.000	0.000	0.000	0.000	0.000

## **Appendix XX. Crosswicks Creek Model Results**

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	2 year	W560	19.56	1.30	1.20	0.066
Crosswicks Creek	2 year	W570	13.33	0.90	1.00	0.068
Crosswicks Creek	2 year	W580	48.51	1.10	1.20	0.023
Crosswicks Creek	2 year	W590	25.79	2.80	3.20	0.109
Crosswicks Creek	2 year	W600	26.01	2.60	3.60	0.100
Crosswicks Creek	2 year	W610	85.60	4.10	4.20	0.048
Crosswicks Creek	2 year	W620	16.44	1.10	1.20	0.067
Crosswicks Creek	2 year	W630	37.19	1.90	1.90	0.051
Crosswicks Creek	2 year	W640	43.89	1.60	1.70	0.036
Crosswicks Creek	2 year	W650	23.19	1.10	1.40	0.047
Crosswicks Creek	2 year	W660	5.64	0.10	0.20	0.018
Crosswicks Creek	2 year	W670	14.69	1.00	1.00	0.068
Crosswicks Creek	2 year	W680	1.11	0.10	0.10	0.090
Crosswicks Creek	2 year	W690	2.40	0.10	0.10	0.042
Crosswicks Creek	2 year	W700	15.16	1.40	1.50	0.092
Crosswicks Creek	2 year	W710	60.21	2.00	2.00	0.033
Crosswicks Creek	2 year	W720	17.51	1.30	1.50	0.074
Crosswicks Creek	2 year	W730	13.18	1.10	1.20	0.083
Crosswicks Creek	2 year	W740	32.27	1.10	1.20	0.034
Crosswicks Creek	2 year	W750	16.47	1.20	1.30	0.073
Crosswicks Creek	2 year	W760	45.10	2.10	2.10	0.047
Crosswicks Creek	2 year	W770	10.56	0.50	0.50	0.047
Crosswicks Creek	2 year	W780	39.24	2.00	2.10	0.051
Crosswicks Creek	2 year	W790	40.94	2.60	2.80	0.064
Crosswicks Creek	2 year	W800	38.27	1.50	1.50	0.039
Crosswicks Creek	2 year	W810	19.78	1.20	1.20	0.061
Crosswicks Creek	2 year	W820	11.62	0.50	0.50	0.043
Crosswicks Creek	2 year	W830	26.75	1.40	1.40	0.052
Crosswicks Creek	2 year	W840	13.05	0.60	0.70	0.046
Crosswicks Creek	2 year	W850	22.80	1.40	1.50	0.061

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	2 year	W860	29.97	1.40	1.40	0.047
Crosswicks Creek	2 year	W870	17.31	1.30	1.30	0.075
Crosswicks Creek	2 year	W880	43.32	2.00	2.00	0.046
Crosswicks Creek	2 year	W890	1.58	0.10	0.10	0.063
Crosswicks Creek	2 year	W900	19.46	0.90	0.90	0.046
Crosswicks Creek	2 year	W910	32.66	1.70	1.70	0.052
Crosswicks Creek	2 year	W920	23.59	1.40	1.40	0.059
Crosswicks Creek	2 year	W930	58.97	2.70	3.00	0.046
Crosswicks Creek	2 year	W940	19.90	1.40	1.60	0.070
Crosswicks Creek	2 year	W950	24.68	1.40	1.40	0.057
Crosswicks Creek	2 year	W960	2.23	0.00	0.10	0.000
Crosswicks Creek	2 year	W970	33.33	1.90	1.90	0.057
Crosswicks Creek	2 year	W980	2.99	0.20	0.30	0.067
Crosswicks Creek	2 year	W990	8.75	0.60	0.60	0.069
Crosswicks Creek	2 year	W1000	15.18	1.10	1.10	0.072
Crosswicks Creek	2 year	W1010	29.65	1.90	1.90	0.064
Crosswicks Creek	2 year	W1020	5.69	0.30	0.30	0.053
Crosswicks Creek	2 year	W1030	0.69	0.00	0.00	0.000
Crosswicks Creek	2 year	W1040	18.12	1.20	1.40	0.066
Crosswicks Creek	2 year	W1050	18.37	1.80	2.10	0.098
Crosswicks Creek	2 year	W1060	8.33	0.50	0.50	0.060
Crosswicks Creek	2 year	W1070	29.84	2.50	3.70	0.084
Crosswicks Creek	2 year	W1080	19.11	3.00	4.40	0.157
Crosswicks Creek	2 year	W1090	21.04	1.40	1.40	0.067
Crosswicks Creek	2 year	W1100	27.54	0.90	1.10	0.033
Crosswicks Creek	2 year	W440L	42.70	0.10	0.10	0.002
Crosswicks Creek	2 year	W450L	35.38	0.10	0.10	0.003
Crosswicks Creek	2 year	W460L	1.43	0.00	0.00	0.000
Crosswicks Creek	2 year	W470L	24.85	0.10	0.10	0.004
Crosswicks Creek	2 year	W480L	1.98	8.60	10.50	4.348

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	2 year	W490L	44.01	0.10	0.10	0.002
Crosswicks Creek	2 year	W500L	8.04	0.00	0.00	0.000
Crosswicks Creek	2 year	W510L	84.78	0.10	0.10	0.001
Crosswicks Creek	2 year	W520L	17.85	0.10	0.10	0.006
Crosswicks Creek	2 year	W530L	17.48	0.10	0.10	0.006
Crosswicks Creek	2 year	W540L	41.17	0.10	0.10	0.002
Crosswicks Creek	2 year	W550L	23.84	0.00	0.10	0.000
Crosswicks Creek	2 year	W560L	43.94	0.10	0.10	0.002
Crosswicks Creek	2 year	W570L	16.02	0.00	0.00	0.000
Crosswicks Creek	2 year	W580L	21.98	0.10	0.10	0.005
Crosswicks Creek	2 year	W590L	53.11	0.00	0.00	0.000
Crosswicks Creek	2 year	W600L	27.67	0.10	0.10	0.004
Crosswicks Creek	2 year	W610L	22.92	0.00	0.00	0.000
Crosswicks Creek	2 year	W620L	74.92	0.10	0.10	0.001
Crosswicks Creek	2 year	W630L	85.55	0.10	0.10	0.001
Crosswicks Creek	2 year	W640L	18.32	0.10	0.10	0.005
Crosswicks Creek	2 year	W650L	19.16	0.00	0.10	0.000
Crosswicks Creek	2 year	W660L	31.75	0.10	0.10	0.003
Crosswicks Creek	2 year	W670L	10.76	0.00	0.00	0.000
Crosswicks Creek	2 year	W680L	9.94	0.00	0.00	0.000
Crosswicks Creek	2 year	W690L	96.97	0.10	0.20	0.001
Crosswicks Creek	2 year	W700L	19.51	0.10	0.10	0.005
Crosswicks Creek	2 year	W710L	26.48	0.10	0.10	0.004
Crosswicks Creek	2 year	W720L	26.11	0.00	0.10	0.000
Crosswicks Creek	2 year	W730L	68.19	0.10	0.10	0.001
Crosswicks Creek	2 year	W740L	35.58	0.00	0.10	0.000
Crosswicks Creek	2 year	W750L	45.79	0.10	0.10	0.002
Crosswicks Creek	2 year	W760L	18.22	0.00	0.00	0.000
Crosswicks Creek	2 year	W770L	100.95	0.10	0.10	0.001
Crosswicks Creek	2 year	W780L	86.73	0.10	0.10	0.001

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	2 year	W790L	64.70	0.10	0.10	0.002
Crosswicks Creek	2 year	W800L	6.43	0.00	0.00	0.000
Crosswicks Creek	2 year	W810L	114.16	0.00	0.10	0.000
Crosswicks Creek	2 year	W820L	32.56	0.10	0.10	0.003
Crosswicks Creek	2 year	W830L	20.72	0.00	0.10	0.000
Crosswicks Creek	2 year	W840L	37.80	0.00	0.10	0.000
Crosswicks Creek	2 year	W850L	9.74	0.00	0.00	0.000
Crosswicks Creek	2 year	W860L	39.66	0.00	0.00	0.000
Crosswicks Creek	10 year	W560	19.56	2.20	2.10	0.112
Crosswicks Creek	10 year	W570	13.33	1.80	2.10	0.135
Crosswicks Creek	10 year	W580	48.51	2.20	2.30	0.045
Crosswicks Creek	10 year	W590	25.79	4.40	5.00	0.171
Crosswicks Creek	10 year	W600	26.01	4.60	6.70	0.177
Crosswicks Creek	10 year	W610	85.60	7.20	7.60	0.084
Crosswicks Creek	10 year	W620	16.44	2.00	2.30	0.122
Crosswicks Creek	10 year	W630	37.19	3.60	3.60	0.097
Crosswicks Creek	10 year	W640	43.89	2.80	3.00	0.064
Crosswicks Creek	10 year	W650	23.19	2.00	2.40	0.086
Crosswicks Creek	10 year	W660	5.64	0.20	0.30	0.035
Crosswicks Creek	10 year	W670	14.69	1.80	1.80	0.123
Crosswicks Creek	10 year	W680	1.11	0.20	0.20	0.180
Crosswicks Creek	10 year	W690	2.40	0.20	0.20	0.083
Crosswicks Creek	10 year	W700	15.16	2.50	2.60	0.165
Crosswicks Creek	10 year	W710	60.21	3.60	3.60	0.060
Crosswicks Creek	10 year	W720	17.51	2.20	2.60	0.126
Crosswicks Creek	10 year	W730	13.18	2.00	2.10	0.152
Crosswicks Creek	10 year	W740	32.27	2.30	2.40	0.071
Crosswicks Creek	10 year	W750	16.47	2.10	2.40	0.128
Crosswicks Creek	10 year	W760	45.10	3.80	3.90	0.084
Crosswicks Creek	10 year	W770	10.56	0.90	1.00	0.085

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	10 year	W780	39.24	3.70	3.90	0.094
Crosswicks Creek	10 year	W790	40.94	4.50	4.90	0.110
Crosswicks Creek	10 year	W800	38.27	2.80	2.70	0.073
Crosswicks Creek	10 year	W810	19.78	2.20	2.30	0.111
Crosswicks Creek	10 year	W820	11.62	1.00	1.00	0.086
Crosswicks Creek	10 year	W830	26.75	2.70	2.70	0.101
Crosswicks Creek	10 year	W840	13.05	1.10	1.20	0.084
Crosswicks Creek	10 year	W850	22.80	2.50	2.70	0.110
Crosswicks Creek	10 year	W860	29.97	2.70	2.80	0.090
Crosswicks Creek	10 year	W870	17.31	2.20	2.20	0.127
Crosswicks Creek	10 year	W880	43.32	3.60	3.60	0.083
Crosswicks Creek	10 year	W890	1.58	0.20	0.20	0.126
Crosswicks Creek	10 year	W900	19.46	1.70	1.70	0.087
Crosswicks Creek	10 year	W910	32.66	3.10	3.20	0.095
Crosswicks Creek	10 year	W920	23.59	2.50	2.50	0.106
Crosswicks Creek	10 year	W930	58.97	4.60	4.90	0.078
Crosswicks Creek	10 year	W940	19.90	2.70	3.00	0.136
Crosswicks Creek	10 year	W950	24.68	2.50	2.40	0.101
Crosswicks Creek	10 year	W960	2.23	0.00	0.10	0.000
Crosswicks Creek	10 year	W970	33.33	3.30	3.40	0.099
Crosswicks Creek	10 year	W980	2.99	0.40	0.60	0.134
Crosswicks Creek	10 year	W990	8.75	1.00	1.10	0.114
Crosswicks Creek	10 year	W1000	15.18	2.00	2.20	0.132
Crosswicks Creek	10 year	W1010	29.65	3.40	3.50	0.115
Crosswicks Creek	10 year	W1020	5.69	0.60	0.60	0.106
Crosswicks Creek	10 year	W1030	0.69	0.00	0.00	0.000
Crosswicks Creek	10 year	W1040	18.12	2.20	2.60	0.121
Crosswicks Creek	10 year	W1050	18.37	3.00	3.50	0.163
Crosswicks Creek	10 year	W1060	8.33	0.90	0.90	0.108
Crosswicks Creek	10 year	W1070	29.84	3.80	5.50	0.127

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	10 year	W1080	19.11	4.70	6.70	0.246
Crosswicks Creek	10 year	W1090	21.04	2.50	2.60	0.119
Crosswicks Creek	10 year	W1100	27.54	1.70	1.90	0.062
Crosswicks Creek	10 year	W440L	42.70	0.20	0.20	0.005
Crosswicks Creek	10 year	W450L	35.38	0.20	0.30	0.006
Crosswicks Creek	10 year	W460L	1.43	0.00	0.00	0.000
Crosswicks Creek	10 year	W470L	24.85	0.10	0.20	0.004
Crosswicks Creek	10 year	W480L	1.98	21.40	25.00	10.819
Crosswicks Creek	10 year	W490L	44.01	0.20	0.20	0.005
Crosswicks Creek	10 year	W500L	8.04	0.00	0.00	0.000
Crosswicks Creek	10 year	W510L	84.78	0.20	0.30	0.002
Crosswicks Creek	10 year	W520L	17.85	0.20	0.20	0.011
Crosswicks Creek	10 year	W530L	17.48	0.20	0.20	0.011
Crosswicks Creek	10 year	W540L	41.17	0.20	0.20	0.005
Crosswicks Creek	10 year	W550L	23.84	0.10	0.10	0.004
Crosswicks Creek	10 year	W560L	43.94	0.20	0.20	0.005
Crosswicks Creek	10 year	W570L	16.02	0.00	0.00	0.000
Crosswicks Creek	10 year	W580L	21.98	0.10	0.10	0.005
Crosswicks Creek	10 year	W590L	53.11	0.10	0.10	0.002
Crosswicks Creek	10 year	W600L	27.67	0.20	0.20	0.007
Crosswicks Creek	10 year	W610L	22.92	0.10	0.10	0.004
Crosswicks Creek	10 year	W620L	74.92	0.20	0.30	0.003
Crosswicks Creek	10 year	W630L	85.55	0.20	0.30	0.002
Crosswicks Creek	10 year	W640L	18.32	0.10	0.20	0.005
Crosswicks Creek	10 year	W650L	19.16	0.10	0.10	0.005
Crosswicks Creek	10 year	W660L	31.75	0.10	0.20	0.003
Crosswicks Creek	10 year	W670L	10.76	0.00	0.00	0.000
Crosswicks Creek	10 year	W680L	9.94	0.00	0.00	0.000
Crosswicks Creek	10 year	W690L	96.97	0.30	0.40	0.003
Crosswicks Creek	10 year	W700L	19.51	0.20	0.20	0.010

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	10 year	W710L	26.48	0.20	0.30	0.008
Crosswicks Creek	10 year	W720L	26.11	0.10	0.10	0.004
Crosswicks Creek	10 year	W730L	68.19	0.20	0.30	0.003
Crosswicks Creek	10 year	W740L	35.58	0.10	0.20	0.003
Crosswicks Creek	10 year	W750L	45.79	0.20	0.20	0.004
Crosswicks Creek	10 year	W760L	18.22	0.00	0.00	0.000
Crosswicks Creek	10 year	W770L	100.95	0.20	0.30	0.002
Crosswicks Creek	10 year	W780L	86.73	0.20	0.30	0.002
Crosswicks Creek	10 year	W790L	64.70	0.20	0.30	0.003
Crosswicks Creek	10 year	W800L	6.43	0.00	0.00	0.000
Crosswicks Creek	10 year	W810L	114.16	0.10	0.30	0.001
Crosswicks Creek	10 year	W820L	32.56	0.10	0.20	0.003
Crosswicks Creek	10 year	W830L	20.72	0.10	0.10	0.005
Crosswicks Creek	10 year	W840L	37.80	0.10	0.20	0.003
Crosswicks Creek	10 year	W850L	9.74	0.00	0.10	0.000
Crosswicks Creek	10 year	W860L	39.66	0.10	0.10	0.003
Crosswicks Creek	100 year	W560	19.56	4.20	4.10	0.215
Crosswicks Creek	100 year	W570	13.33	4.00	4.80	0.300
Crosswicks Creek	100 year	W580	48.51	6.10	6.80	0.126
Crosswicks Creek	100 year	W590	25.79	8.00	9.00	0.310
Crosswicks Creek	100 year	W600	26.01	9.50	14.30	0.365
Crosswicks Creek	100 year	W610	85.60	14.80	15.70	0.173
Crosswicks Creek	100 year	W620	16.44	4.40	5.20	0.268
Crosswicks Creek	100 year	W630	37.19	7.50	7.70	0.202
Crosswicks Creek	100 year	W640	43.89	6.60	7.20	0.150
Crosswicks Creek	100 year	W650	23.19	4.60	5.60	0.198
Crosswicks Creek	100 year	W660	5.64	0.70	0.90	0.124
Crosswicks Creek	100 year	W670	14.69	3.50	3.50	0.238
Crosswicks Creek	100 year	W680	1.11	0.30	0.30	0.270
Crosswicks Creek	100 year	W690	2.40	0.50	0.50	0.208

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	100 year	W700	15.16	4.70	4.90	0.310
Crosswicks Creek	100 year	W710	60.21	6.90	6.90	0.115
Crosswicks Creek	100 year	W720	17.51	4.50	5.50	0.257
Crosswicks Creek	100 year	W730	13.18	3.80	4.00	0.288
Crosswicks Creek	100 year	W740	32.27	5.10	5.20	0.158
Crosswicks Creek	100 year	W750	16.47	4.30	5.00	0.261
Crosswicks Creek	100 year	W760	45.10	8.00	8.40	0.177
Crosswicks Creek	100 year	W770	10.56	2.10	2.30	0.199
Crosswicks Creek	100 year	W780	39.24	7.70	8.10	0.196
Crosswicks Creek	100 year	W790	40.94	9.20	10.10	0.225
Crosswicks Creek	100 year	W800	38.27	5.30	5.30	0.138
Crosswicks Creek	100 year	W810	19.78	4.70	5.10	0.238
Crosswicks Creek	100 year	W820	11.62	2.30	2.40	0.198
Crosswicks Creek	100 year	W830	26.75	5.60	5.80	0.209
Crosswicks Creek	100 year	W840	13.05	2.50	2.80	0.191
Crosswicks Creek	100 year	W850	22.80	5.00	5.60	0.219
Crosswicks Creek	100 year	W860	29.97	5.90	6.20	0.197
Crosswicks Creek	100 year	W870	17.31	4.30	4.30	0.248
Crosswicks Creek	100 year	W880	43.32	7.00	6.90	0.162
Crosswicks Creek	100 year	W890	1.58	0.40	0.50	0.253
Crosswicks Creek	100 year	W900	19.46	3.60	3.70	0.185
Crosswicks Creek	100 year	W910	32.66	6.40	6.80	0.196
Crosswicks Creek	100 year	W920	23.59	4.90	5.10	0.208
Crosswicks Creek	100 year	W930	58.97	10.10	11.10	0.171
Crosswicks Creek	100 year	W940	19.90	5.60	6.30	0.281
Crosswicks Creek	100 year	W950	24.68	4.60	4.50	0.186
Crosswicks Creek	100 year	W960	2.23	0.10	0.20	0.045
Crosswicks Creek	100 year	W970	33.33	6.80	7.20	0.204
Crosswicks Creek	100 year	W980	2.99	0.90	1.30	0.301
Crosswicks Creek	100 year	W990	8.75	2.10	2.30	0.240

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	100 year	W1000	15.18	4.10	4.60	0.270
Crosswicks Creek	100 year	W1010	29.65	6.80	7.10	0.229
Crosswicks Creek	100 year	W1020	5.69	1.20	1.20	0.211
Crosswicks Creek	100 year	W1030	0.69	0.00	0.10	0.000
Crosswicks Creek	100 year	W1040	18.12	4.80	6.10	0.265
Crosswicks Creek	100 year	W1050	18.37	5.80	6.80	0.316
Crosswicks Creek	100 year	W1060	8.33	1.90	1.90	0.228
Crosswicks Creek	100 year	W1070	29.84	6.30	9.20	0.211
Crosswicks Creek	100 year	W1080	19.11	8.40	12.00	0.440
Crosswicks Creek	100 year	W1090	21.04	4.90	5.00	0.233
Crosswicks Creek	100 year	W1100	27.54	4.20	4.70	0.152
Crosswicks Creek	100 year	W440L	42.70	0.40	0.50	0.009
Crosswicks Creek	100 year	W450L	35.38	0.50	0.60	0.014
Crosswicks Creek	100 year	W460L	1.43	0.00	0.00	0.000
Crosswicks Creek	100 year	W470L	24.85	0.40	0.50	0.016
Crosswicks Creek	100 year	W480L	1.98	53.30	59.70	26.947
Crosswicks Creek	100 year	W490L	44.01	0.40	0.50	0.009
Crosswicks Creek	100 year	W500L	8.04	0.10	0.10	0.012
Crosswicks Creek	100 year	W510L	84.78	0.50	0.70	0.006
Crosswicks Creek	100 year	W520L	17.85	0.40	0.50	0.022
Crosswicks Creek	100 year	W530L	17.48	0.40	0.50	0.023
Crosswicks Creek	100 year	W540L	41.17	0.40	0.40	0.010
Crosswicks Creek	100 year	W550L	23.84	0.20	0.30	0.008
Crosswicks Creek	100 year	W560L	43.94	0.40	0.50	0.009
Crosswicks Creek	100 year	W570L	16.02	0.10	0.20	0.006
Crosswicks Creek	100 year	W580L	21.98	0.30	0.30	0.014
Crosswicks Creek	100 year	W590L	53.11	0.30	0.40	0.006
Crosswicks Creek	100 year	W600L	27.67	0.40	0.50	0.014
Crosswicks Creek	100 year	W610L	22.92	0.20	0.30	0.009
Crosswicks Creek	100 year	W620L	74.92	0.50	0.70	0.007

Watershed	Storm Event	Subbasin	Drainage Area (acres)	Total Depth (acre-ft)	Peak Discharge (cfs)	Normalized Depth (acre-ft/acre)
Crosswicks Creek	100 year	W630L	85.55	0.50	0.70	0.006
Crosswicks Creek	100 year	W640L	18.32	0.30	0.40	0.016
Crosswicks Creek	100 year	W650L	19.16	0.20	0.30	0.010
Crosswicks Creek	100 year	W660L	31.75	0.40	0.50	0.013
Crosswicks Creek	100 year	W670L	10.76	0.10	0.10	0.009
Crosswicks Creek	100 year	W680L	9.94	0.10	0.10	0.010
Crosswicks Creek	100 year	W690L	96.97	0.80	1.00	0.008
Crosswicks Creek	100 year	W700L	19.51	0.50	0.60	0.026
Crosswicks Creek	100 year	W710L	26.48	0.50	0.60	0.019
Crosswicks Creek	100 year	W720L	26.11	0.30	0.30	0.011
Crosswicks Creek	100 year	W730L	68.19	0.50	0.60	0.007
Crosswicks Creek	100 year	W740L	35.58	0.30	0.40	0.008
Crosswicks Creek	100 year	W750L	45.79	0.40	0.50	0.009
Crosswicks Creek	100 year	W760L	18.22	0.10	0.20	0.005
Crosswicks Creek	100 year	W770L	100.95	0.60	0.90	0.006
Crosswicks Creek	100 year	W780L	86.73	0.50	0.70	0.006
Crosswicks Creek	100 year	W790L	64.70	0.60	0.70	0.009
Crosswicks Creek	100 year	W800L	6.43	0.10	0.10	0.016
Crosswicks Creek	100 year	W810L	114.16	0.40	0.80	0.004
Crosswicks Creek	100 year	W820L	32.56	0.30	0.40	0.009
Crosswicks Creek	100 year	W830L	20.72	0.30	0.30	0.014
Crosswicks Creek	100 year	W840L	37.80	0.30	0.50	0.008
Crosswicks Creek	100 year	W850L	9.74	0.10	0.10	0.010
Crosswicks Creek	100 year	W860L	39.66	0.30	0.40	0.008

## **Appendix XXI. Curve Numbers**

LABEL FROM 2007 NJ DEP LANDUSE LAYER	LANDUSE FROM USDA NRCS	A	B	C	D
Agricultural Wetlands (Modified)	24Other Agricultural Land	59	74	82	86
Airport Facilities	14Transportation Communications and Utilities	83	89	92	93
Altered Lands	17Other Urban or Built-up Land	63	77	85	88
Artificial Lakes	53Reservoirs	0	0	0	0
Athletic Fields (Schools)	Open Space (Fair)	49	69	79	84
Bridge Over Water	Roads (Paved)	98	98	98	98
Cemetery	Open Space (Fair)	49	69	79	84
Commercial/Services	12Commercial and Services	89	92	94	95
Confined Feeding Operations	23Confined Feeding Operations	68	79	86	89
Coniferous Brush/Shrubland	Evergreen Forest42	40	66	77	85
Coniferous Forest (>50% Crown Closure)	42Evergreen Forest Land	36	60	73	79
Coniferous Forest (10-50% Crown Closure)	42Evergreen Forest Land	36	60	73	79
Coniferous Wooded Wetland	61Forested Wetland	30	55	70	77
Coniferous Wooded Wetland	61Forested Wetland	30	55	70	77
Cropland And Pastureland	21Cropland and Pasture	49	69	79	84
Deciduous Brush/Shrubland	Deciduous Forest41	36	60	73	79
Deciduous Forest (>50% Crown Closure)	Deciduous Forest41	36	60	73	79
Deciduous Forest (10-50% Crown Closure)	Deciduous Forest41	36	60	73	79
Deciduous Scrub/Shrub Wetlands	61Forested Wetland	30	55	70	77
Deciduous Wooded Wetlands	61Forested Wetland	30	55	70	77
Disturbed Wetlands (Modified)	17Other Urban or Built-up Land	63	77	85	88
Extractive Mining	75 Strip Mines, Quarries, and Gravel	77	86	91	94
Former Agricultural Wetland (Becoming Shrubby, Not Built-Up)	24Other Agricultural Land	59	74	82	86
Herbaceous Wetlands	62Nonforested Wetland	30	58	71	78
Industrial	13Industrial	81	88	91	93
Industrial And Commercial Complexes	15Industrial and Commercial Complexes	84	90	92	94
Major Roadway	Roads (Paved)	98	98	98	98
Managed Wetland In Built-Up Maintained Rec Area	62Nonforested Wetland	30	58	71	78
Managed Wetland In Maintained Lawn Greenspace	62Nonforested Wetland	30	58	71	78
Military Installations	12Commercial and Services	89	92	94	95
Mixed Deciduous/Coniferous Brush/Shrubland	Mixed Forest43	38	63	75	82
Mixed Forest (>50% Coniferous With >50% Crown Closure)	43Mixed Forest Land	36	60	73	79
Mixed Forest (>50% Deciduous With >50% Crown Closure)	43Mixed Forest Land	36	60	73	79
Mixed Forest (>50% Deciduous With 10-50% Crown Closure)	43Mixed Forest Land	36	60	73	79
Mixed Residential	Residential11	61	75	83	87
Mixed Scrub/Shrub Wetlands (Coniferous Dom.)	61Forested Wetland	30	55	70	77
Mixed Scrub/Shrub Wetlands (Deciduous Dom.)	61Forested Wetland	30	55	70	77
Mixed Urban Or Built-Up Land	16Mixed Urban or Built-up Land	81	88	91	93
Mixed Wooded Wetlands (Coniferous Dom.)	61Forested Wetland	30	55	70	77

Natural Lakes	52Lakes	0	0	0	0
Old Field (< 25% Brush Covered)	Open Space (Fair)	49	69	79	84
Orchards/Vineyards/Nurseries/Horticultural Areas	22Orchards Groves Vineyards Nurseries and Ornamental Ho	45	66	77	83
Other Agriculture	24Other Agricultural Land	59	74	82	86
Other Urban Or Built-Up Land	17Other Urban or Built-up Land	63	77	85	88
Phragmites Dominate Interior Wetland	62Nonforested Wetland	30	58	71	78
Phragmites Dominate Old Field	31Herbaceous Rangeland	49	69	79	84
Plantation	42Evergreen Forest Land	36	60	73	79
Railroads	14Transportation Communications and Utilities	83	89	92	93
Recreational Land	Open Space (Fair)	49	69	79	84
Residential, High Density Or Multiple Dwelling	Residential (65% imp)	77	85	90	92
Residential, Rural, Single Unit	Residential (20% imp)	51	68	79	84
Residential, Single Unit, Low Density	Residential (25% imp)	54	70	80	85
Residential, Single Unit, Medium Density	Residential (30% imp)	57	72	81	86
Stormwater Basin	14Transportation Communications and Utilities	83	89	92	93
Streams And Canals	51Streams and Canals	0	0	0	0
Transitional Areas	76Transitional Areas	77	86	91	94
Transportation/Communication/Utilities	14Transportation Communications and Utilities	83	89	92	93
Upland Rights-Of-Way Developed	14Transportation Communications and Utilities	83	89	92	93
Upland Rights-Of-Way Undeveloped	14Transportation Communications and Utilities	83	89	92	93
Wetland Rights-Of-Way	14Transportation Communications and Utilities	83	89	92	93