



North Central Texas
Council of Governments

Integrating Transportation and Stormwater Infrastructure

Hydrology Modeling Updates for the West Fork of the Trinity River Watershed

June 2026



*This study was funded by the Texas Water Development Board and
Texas Department of Transportation.*



Integrating Transportation and Stormwater Infrastructure (TSI)

HEC-HMS Modeling for the West Fork of the Trinity River Watershed

U.S. Army Corps of Engineers

1 Executive Summary

An agreement between the Department of the Army represented by the US Army Corps of Engineers (USACE), Fort Worth District, and the North Central Texas Council of Governments (NCTCOG) in connection with the Integrated Watershed Based Planning for Regional Transportation and Stormwater Management in the Upper Trinity River Basin, Texas, was established to perform a study in the West Fork of the Trinity River area. The hydrologic study for the West Fork of the Trinity River Watershed will be to add detail to the Interagency Flood Risk Management (InFRM) Trinity Watershed Hydrologic Assessment (WHA) Hydrologic Engineering Center-Hydrologic Modeling System (HEC-HMS) model by adding additional subbasin and reach locations where flows will be developed with the additional subbasins and calibrated to match the InFRM WHA HEC-HMS results at their common locations. Then, the existing conditions basin model will be updated to match 2020 impervious conditions and one future condition basin model will be created representing the year 2070, based on future conditions data provided by the NCTCOG and Environmental Protection Agency Integrated Climate and Land use Scenarios (EPA ICLUS). These models will be used for two purposes: (1) to feed flows into the TSI Hydrologic Engineering Center-River Analysis System (HEC-RAS) models, and (2) to optimize project alternatives such as possible detention locations. The alternatives analysis will be performed by the University of Texas Arlington (UTA).

2 Data Sources

This section describes the data that was collected /reviewed for the hydrologic study effort, including geospatial and climatic information, field observations and previous reports for the study area.

2.1 GIS Data

Data from different sources were gathered and processed using the latest Geographic Information System (GIS) tool.

Table 2-1. GIS Data Sources

Data Type	Description
Study Area	Polygon of the TSI West Study Area
InFRM WHA Subbasins	Subbasins from the Trinity InFRM WHA HEC-HMS model
DEM	DEM of the West TSI study area with a 30-ft cell size that was generated from the 2021 TWDB seamless statewide LiDAR data.
Approximate Subbasin Outlet Locations	Point shapefile of the approximate locations of the proposed HMS subbasin outlets that have been reviewed and agreed upon by the TSI team.
Stream Centerlines FFRD	A terrain derived stream centerline layer from the Trinity FFRD study.
Stream Centerlines NHD	NHD flow lines. Use this layer to find stream names.
Existing Bridge Locations	Locations of existing TXDOT bridges
Future Road Locations (2045)	Locations of future TXDOT roads
WHA Percent Impervious (2016)	Percent impervious raster that was used in the InFRM WHA
Current Percent Impervious (2020)	Percent impervious raster for the year 2020 provided by NCTCOG for the TSI project.
Future Percent Impervious (2070)	Percent impervious raster for the year 2070 made the Combined Land Use data from the NCTCOG and EPA ICLUS
Future Percent Urban (2070)	Percent Urban raster for the year 2070 made from the Combined Land Use data from the NCTCOG and EPA ICLUS
Existing Dam Locations	Dam locations from the National Inventory of Dams
Reservoirs from the Trinity WHA	A polygon shapefile of the major lakes and reservoirs in the Trinity River basin.

2.2 HEC-HMS data from Existing models

A watershed model was built for the Trinity River Basin with input parameters that represented the physical characteristics of the watershed. The rainfall-runoff model for the West Fork of the Trinity River area was completed using the basin-wide HEC-HMS model developed for the 2021 Interagency Flood Risk Management (InFRM) Watershed Hydrology Assessment (WHA) for the Trinity River as a starting point. The InFRM model was calibrated to multiple recent flood events, including those similar in magnitude to a 1% annual chance (100-yr) storm. Finally, frequency storms were incorporated into the InFRM HEC-HMS model using the latest published frequency rainfall depths from the National Oceanic and Atmospheric Administration (NOAA) Atlas 14 (NOAA, 2018). These frequency storms were run through the verified model, yielding

consistent estimates of the 1% annual chance (100-yr) and other frequency peak flows at various locations throughout the basin (InFRM, WHA for the Trinity River Basin, July 2021).

3 HEC-HMS Initial Model Development

For this study, additional detail was added to the InFRM Trinity WHA HEC-HMS model by adding additional subbasins and reach locations, where flows will be calculated for the TSI hydraulic modeling. First, an existing conditions (2016) basin model was developed with the additional subbasins and “calibrated” to match the InFRM WHA HEC-HMS results at their common locations. Then, the existing conditions basin model was updated to match 2020 impervious conditions and one future condition basin model was created representing the year 2070, based on future conditions data provided by the NCTCOG. These models will be used for two purposes: (1) to feed flows into the TSI HEC-RAS models, and (2) to optimize project alternatives such as possible detention locations. The alternatives analysis will be performed by UTA.

3.1 HEC-HMS Subbasin Locations

Approximate points for subbasin outlet locations were developed prior to the initiation of the West Fork of the Trinity River modeling. These subbasin locations were reviewed and approved by the rest of the TSI H&H team, including UTA, Tarrant Regional Water District (TRWD) and the NCTCOG. The guidelines and priorities for placing subbasin outlet locations are described below.

A subbasin outlet point was placed where each of the features listed below intersected with the stream centerlines layer. Engineering judgment was applied to keep the relative drainage areas and number of subbasins reasonable. An attempt was made to keep the subbasin areas in the range of 1 to 5 square miles with subbasins at the smaller end of that range being used in the areas with more urban development for existing or future conditions.

1. USGS Gages and/or WHA subbasin outlets
2. Above Significant Stream Confluences – points were placed on each stream just above the confluences, according to the stream centerlines file.
3. At Existing Dams – points were placed at the locations of existing dams, according to the NID layer, unless the dam did not appear to significantly impact flow or the NID attributes showed negligible flood storage capacity.
4. At Existing Bridges - points were placed where the streams intersected with the Existing TxDOT bridge layer. Engineering judgement was used to select bridge locations with the potential for upstream detention.
5. At Future Roads - points were placed where the streams intersected with the Future Road locations 2045 layer. Engineering judgement was used to select bridge locations with the potential for upstream detention.

The resulting points shapefile of subbasin outlets was used as a guide for the approximate number and desired locations of the subbasin outlets for the West Fork of the Trinity River area, as shown in Figure 3-1.

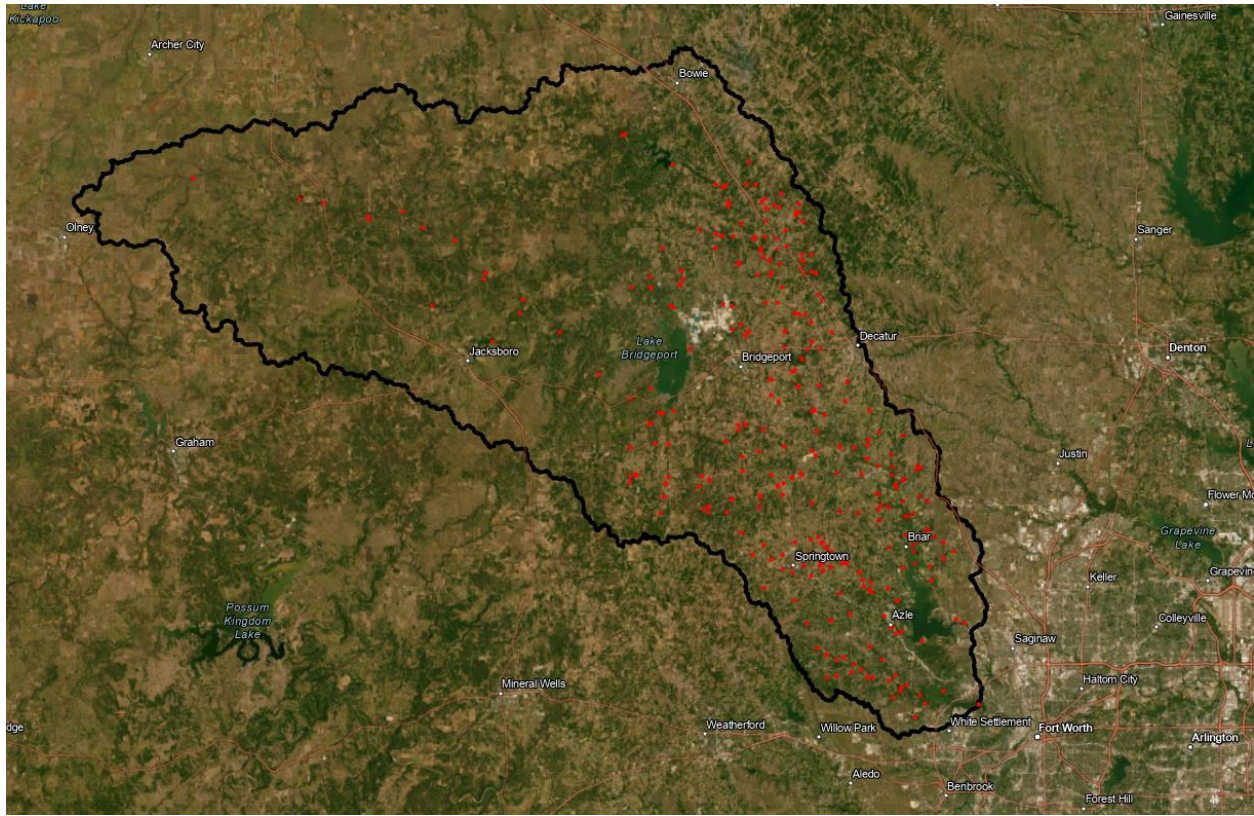


Figure 3-1. HEC-HMS Subbasin Location for TSI West Fork of the Trinity River Area.

3.2 HEC-HMS Subbasin Delineations

HEC-HMS version 4.11 was used to delineate the West Fork of the Trinity River Watershed from a 30-ft cell size DEM layer to 378 subbasins. HEC-HMS is provided with several capabilities such as terrain reconditioning, Preprocess sinks and drainage, and identify stream, as well as, the use of break points, which can be placed at locations of downstream outlets. They are also used to split basins at bridges and detention basins. The goal is to refine the WHA larger basins to smaller subbasins and capture critical infrastructure in the model and assess impacts during flood events. The delineated West Fork of the Trinity River subbasins are shown in Figure 3-2.



Figure 3-2. HEC-HMS Final Subbasin Delineation for TSI West Fork of the Trinity River Area.

Table 3-1. HEC-HMS Subbasins

Subbasin	Area (sq. mi.)	Subbasin	Area (sq. mi.)
West Fork S010	60.464	Rush Ck S030	5.700
West Fork S020	67.784	Rush Ck S040	1.038
West Fork S030	62.265	Rush Ck S060	3.326
West Fork S040	40.534	Rush Ck S070	1.282
West Fork S050	31.980	Garrett Ck S009	1.379
West Fork S060	69.082	Garrett Ck S031	5.781
West Fork S070	50.366	Garrett Ck S032	3.302
West Fork S080	19.510	Garrett Ck S033	4.229
West Fork S090	37.130	Salt Ck S001	2.815
West Fork S100	37.697	Salt Ck S002	0.268
West Fork S120	50.137	Salt Ck S003	1.847
West Fork S110	22.332	Salt Ck S004	0.165
Big Cleveland S010	51.285	Salt Ck S005	2.769
Big Cleveland S020	47.287	Salt Ck S006	5.642
West Fork S130	20.914	Salt Ck S007	0.891
Lost Ck S010	28.784	Salt Ck S008	3.042
Lost Ck S020	13.536	Salt Ck S009	3.520
West Fork S140	39.524	Gonzollas Ck S010	2.842
West Fork S150	41.333	Gonzollas Ck S020	3.680
West Fork S160	35.660	Gonzollas Ck S030	0.472
Beans Ck S010	35.683	Salt Ck S011	3.182
Beans Ck S020	11.326	Pecan Br S010	2.607
Big Ck S010	50.623	Salt Ck S012	0.328
Big Ck S021	3.162	Salt Ck S013	4.054
Big Ck S022	3.594	Salt Ck S014	0.916
Big Ck S023	1.107	Salt Ck S015	0.175
Big Ck S024	5.734	Salt Ck S016	1.478
Big Ck S031	4.359	Salt Ck S017	1.532
Big Ck S032	4.265	Salt Ck S018	2.799
Big Ck S033	2.376	Cottonwood Ck S010	1.323
Big Ck S034	1.379	Cottonwood Ck S020	4.260
Big Ck S035	2.099	Salt Ck S019	2.040
Big Ck S036	0.343	Salt Ck S021	2.193
Big Ck S037	4.600	Garrett Ck S034	1.675
Boons Ck S010	15.692	Salt Ck S022	1.771
Boons Ck S020	1.977	West Fork S201	0.612
Boons Ck S030	0.780	Lola Ck S010	4.611

Subbasin	Area (sq. mi.)	Subbasin	Area (sq. mi.)
Boons Ck S040	4.588	Lola Ck S020	4.378
Boons Ck S050	6.299	West Fork S202	0.687
Boons Ck S060	2.348	West Fork S203	6.189
Boons Ck S070	2.909	West Fork S204	4.048
Boons Ck S080	5.178	West Fork S205	2.128
Boons Ck S090	3.827	West Fork S206	0.869
Willow Ck S010	5.323	West Fork S207	0.408
Willow Ck S020	1.411	West Fork S208	0.834
Willow Ck S030	2.443	Walker Ck S010	2.953
Willow Ck S040	1.584	Walker Ck S020	1.742
Willow Ck S050	4.879	West Fork S209	2.571
Willow Ck S060	0.153	West Fork S211	1.568
Willow Ck S070	1.365	Deep Ck S10	2.696
Willow Ck S080	5.363	Deep Ck S20	3.885
Willow Ck S090	3.224	Deep Ck S30	1.517
Coal Bed Br S010	5.124	West Fork S212	1.177
Boons Ck S100	1.691	Blue Ck S10	3.281
Jasper Ck S010	20.027	Blue Ck S20	2.074
Jasper Ck S020	4.839	Blue Ck S25	0.921
Bridgeport S002	21.837	Blue Ck S40	1.295
Bridgeport S001	14.936	Blue Ck S30	2.379
West Fork S162	11.839	Blue Ck S50	0.123
West Fork S161	1.699	Blue Ck S60	0.771
West Fork S163	8.895	West Fork S213	1.038
West Fork S164	2.693	West Fork S214	4.150
West Fork S165	4.971	West Fork S215	2.786
West Fork S166	9.184	Hog Branch S10	1.799
Dry Ck S010	5.740	Hog Branch S20	4.601
Dry Ck S020	0.794	Hog Brach S30	3.946
Dry Ck S030	3.805	Hog Branch S40	0.185
Dry Ck S040	2.275	West Fork S216	0.849
Dry Ck S050	0.468	West Fork S217	0.218
Dry Ck S060	2.030	Dry Fork S10	0.821
Dry Ck S070	1.452	Dry Fork S20	0.983
Dry Ck S080	0.582	Eagle Mountain S001	0.304
Dry Ck S090	3.805	Oates Branch S10	1.669
Dry Ck S100	2.138	Oates Brannch S30	1.566
Dry Ck S110	4.178	Oates Branch S20	0.848

Subbasin	Area (sq. mi.)	Subbasin	Area (sq. mi.)
West Fork S171	2.616	Oates Branch S40	1.028
West Fork S172	1.892	Oates Branch S50	1.079
Amon G Carter S030	40.338	Oates Branch S60	2.513
Amon G Carter S010	38.597	Oates Branch S70	0.311
Amon G Carter S020	30.566	Eagle Mountain S002	4.166
Big Sandy Ck S010	41.997	Eagle Mountain S003	2.178
Big Sandy Ck S011	1.405	Derrett Ck S30	3.418
Big Sandy Ck S012	1.020	Derrett Ck S40	0.638
Big Sandy Ck S013	1.042	Derrett Ck S50	0.775
Big Sandy Ck S014	1.767	Derrett Ck S60	1.506
Big Sandy Ck S015	4.273	Eagle Mountain S004	1.045
Big Sandy Ck S016	3.346	Briar Ck S10	5.482
Big Sandy Ck S017	4.691	Briar Ck S20	2.499
Pringle Ck S010	7.792	Eagle Mountain S005	0.791
Pringle Ck S020	5.605	Eagle Mountain S006	1.408
Pringle Ck S030	3.038	Indian Ck S010	5.115
Pringle Ck S040	1.458	Indian Ck S020	2.800
Pringle Ck S050	2.869	Indian Ck S030	1.402
Pringle Ck S060	1.459	Moss Branch S010	2.760
Big Sandy Ck S018	1.532	Moss Branch S020	0.884
Brushy Ck S010	30.684	Indian Ck S040	3.447
Brushy Ck S021	7.238	Indian Ck S050	2.526
Brushy Ck S022	0.875	Gilmore Branch S010	5.439
Brushy Ck S023	4.307	Eagle Mountain S031	1.938
Brushy Ck S024	1.313	Swift Branch S010	1.683
Brushy Ck S025	1.808	Walnut Ck S001	1.799
Brushy Ck S026	1.182	Walnut Ck S002	0.552
Grapevine Ck S010	4.463	Walnut Ck S003	1.997
Grapevine Ck S020	1.163	Walnut Ck S004	2.465
Grapevine Ck S030	0.999	Goshen Ck S010	2.998
Grapevine Ck S040	0.287	Goshen Ck S020	0.879
Brushy Ck S027	2.371	Walnut Ck S005	1.364
Brushy Ck S028	0.631	Walnut Ck S006	1.877
Brushy Ck S029	1.389	Walnut Ck S007	0.376
Dry Hollow Br S010	2.325	Walnut Ck S008	1.133
Dry Hollow Br S020	1.264	Browders Ck S010	1.980
Dry Hollow Br S030	0.556	Browders Ck S020	4.289
Dry Hollow Br S040	1.370	Browders Ck S030	0.797

Subbasin	Area (sq. mi.)	Subbasin	Area (sq. mi.)
Dry Hollow Br S050	0.390	Walnut Ck S009	1.200
Dry Hollow Br S060	3.053	Dry Br S010	3.120
Dry Hollow Br S070	1.479	Dry Br S020	3.119
Dry Hollow Br S080	0.765	Dry Br S030	0.863
Big Sandy Ck S021	0.697	Woody Ck S010	3.890
Chicken Ck S010	1.587	Woody Ck S020	4.450
Chicken Ck S020	1.032	Woody Ck S030	0.698
Chicken Ck S030	2.656	Walnut Ck S010	0.359
Big Sandy Ck S022	0.703	Walnut Ck S011	0.225
Big Sandy Ck Trib S010	1.244	Walnut Ck S012	2.364
Big Sandy Ck Trib S020	0.650	Walnut Ck S013	1.349
Big Sandy Ck Trib S030	0.698	Walnut Ck S014	1.212
Big Sandy Ck S023	0.418	Walnut Ck Trib S010	2.839
Big Sandy Ck S024	2.006	Walnut Ck Trib S020	0.373
Big Sandy Ck S025	1.316	Walnut Ck Trib S030	1.946
Mudhole Br S010	2.588	Walnut Ck Trib S040	0.320
Mudhole Br S020	1.097	Walnut Ck Trib S050	1.137
Big Sandy Ck S026	3.434	Walnut Ck Trib S060	1.606
Big Sandy Ck S027	1.397	Walnut Ck Trib S070	0.597
Big Sandy Ck S028	1.842	Walnut Ck Trib S080	1.176
Briar Br S010	3.638	Walnut Ck S015	0.117
Briar Br S020	1.647	Walnut Ck S016	3.119
Briar Br S030	0.746	Walnut Ck S017	0.901
Briar Br S040	0.299	Walnut Ck S018	1.670
Walkers Br S010	2.740	Walnut Ck S019	1.300
Walkers Br S020	1.196	Walnut Ck S021	0.117
Walkers Br S030	1.167	Cottonwood Br S010	1.890
Walkers Br S040	0.284	Cottonwood Br S020	3.576
Briar Br S050	1.616	Walnut Ck S022	0.974
Briar Br S060	2.719	Walnut Ck S023	1.570
Big Sandy Ck S031	3.923	Walnut Ck S024	0.753
Big Sandy Ck S032	2.227	Walnut Ck S025	1.660
Big Sandy Ck S033	0.893	Walnut Ck S026	3.287
Big Sandy Ck S034	3.328	Walnut Ck S027	2.043
Watson Br S010	4.107	Walnut Ck S028	1.277
Watson Br S020	2.704	Dosier Ck S010	5.463
Watson Br S030	2.100	Little Dosier Ck S010	2.100
Watson Br S040	0.190	Eagle Mountain S032	24.280

Subbasin	Area (sq. mi.)	Subbasin	Area (sq. mi.)
Twin Pond CK S010	3.764	Ash Ck S010	2.876
Twin Pond CK S020	2.790	Ash Ck S020	2.596
Watson Br S050	0.634	Ash Ck S030	3.860
Big Sandy Ck S035	5.220	Ash Ck S040	3.897
Big Sandy Ck S041	1.908	Ash Ck S050	6.379
Waggoner Br S010	3.304	Ash Ck S060	2.209
Waggoner Br S020	3.902	Ash Ck S070	1.904
Waggoner Br S030	2.187	Ash Ck S080	0.642
Rosebud Br S010	0.756	Ash Ck S090	1.879
Rosebud Br S020	0.902	Eagle Mountain S033	3.431
Rosebud Br S030	0.368	Lake Worth S010	21.253
Waggoner Br S040	1.108	Silver Ck S010	2.514
Big Sandy Ck S042	1.754	Silver Ck S020	1.943
Big Sandy Ck S043	3.180	Silver Ck S030	3.721
West Fork S181	1.507	Silver Ck S040	1.794
West Fork S182	0.129	Silver Ck S050	1.328
West Fork S183	2.394	Silver Ck S060	1.893
West Fork S184	4.524	Silver Ck S070	1.879
Martin Br S010	4.134	Silver Ck S080	0.361
Martin Br S020	3.707	Little Silver Ck S010	1.832
Martin Br S030	3.426	Little Silver Ck S020	2.149
Martin Br S040	0.162	Little Silver Ck S030	1.838
Martin Br S050	5.325	Little Silver Ck S040	1.229
Martin Br S060	4.994	Little Silver Ck S050	0.686
West Fork S185	0.157	Silver Ck S090	4.349
West Fork S191	4.071	Silver Ck S100	2.849
West Fork S192	6.714	Silver Ck S110	3.749
Garrett Ck S001	2.841	Silver Ck S120	1.232
Garrett Ck S002	1.563	Silver Ck S130	1.613
Garrett Ck S003	2.673	Silver Ck S140	1.985
Garrett Ck S004	0.361	Mill Ck S010	1.785
Garrett Ck S005	5.923	Mill Ck S020	1.368
Garrett Ck S006	1.728	Mill Ck S030	1.904
Garrett Ck S007	3.811	Mill Ck S040	1.776
Garrett Ck S008	3.621	Silver Ck S150	2.160
Rush Ck S010	7.661	Live Oak Ck S010	5.568
Rush Ck S020	1.594	Live Oak Ck S020	2.387
Rush Ck S050	0.656	Lake Worth S020	16.573

3.3 HEC-HMS Initial Parameters

First, an existing conditions (2016) basin model was developed with the new subbasin delineation and “calibrated” to match the InFRM WHA HEC-HMS results at their common locations. The 1% Annual Chace of Exceedance (ACE) or 100-year HEC-HMS initial hydrologic parameters were copied from the calibrated WHA HEC-HMS models and presented in the below tables. The WHA larger basins were overlayed on top of the delineated subbasins to validate the use of copied parameters for the new model. The following parameter tables in this section reflect 2016 conditions that coincide with the 100-yr WHA HEC-HMS model. These parameters were later updated for 2020 and 2070 conditions.

3.3.1 Initial Subbasin Parameters

Percent Imperviousness

Imperviousness for the entire watershed was extracted from the NLCD database for 2016 conditions, which was the same dataset used in the InFRM WHA. then applied to the individual subbasins. Table 3-2 shows the calculated subbasin impervious values for 2016.

Initial and Constant Losses

The initial losses and loss rate parameters were assumed the same for the delineated basins that coincided with the WHA basins.

Table 3-2. HEC-HMS Subbasin 100-yr Loss Parameters for 2016 (WHA) conditions

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
West Fork S010	1.05	0.09	0
West Fork S020	0.85	0.09	0
West Fork S030	0.86	0.09	0
West Fork S040	0.85	0.09	0
West Fork S050	0.85	0.09	0
West Fork S060	0.85	0.09	0
West Fork S070	0.86	0.09	0
West Fork S080	0.85	0.09	0
West Fork S090	0.86	0.09	0
West Fork S100	0.84	0.09	0
West Fork S120	2.41	0.09	1
West Fork S110	0.87	0.09	0
Big Cleveland S010	3.49	0.09	0
Big Cleveland S020	2.29	0.09	1
West Fork S130	0.84	0.09	0

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Lost Ck S010	0.85	0.09	3
Lost Ck S020	0.84	0.09	0
West Fork S140	1.81	0.09	1
West Fork S150	0.85	0.09	0
West Fork S160	0.86	0.09	2
Beans Ck S010	0.89	0.09	1
Beans Ck S020	0.86	0.09	1
Big Ck S010	0.90	0.09	0
Big Ck S021	0.87	0.09	0
Big Ck S022	0.87	0.09	0
Big Ck S023	0.87	0.09	0
Big Ck S024	0.87	0.09	8
Big Ck S031	0.88	0.10	1
Big Ck S032	0.88	0.10	0
Big Ck S033	0.88	0.10	1
Big Ck S034	0.88	0.10	1
Big Ck S035	0.88	0.10	0
Big Ck S036	0.88	0.10	0
Big Ck S037	0.88	0.10	9
Boons Ck S010	0.89	0.10	0
Boons Ck S020	0.89	0.10	3
Boons Ck S030	0.89	0.10	1
Boons Ck S040	0.89	0.10	1
Boons Ck S050	0.89	0.10	0
Boons Ck S060	0.89	0.10	0
Boons Ck S070	0.89	0.10	1
Boons Ck S080	0.89	0.10	1
Boons Ck S090	0.89	0.10	5
Willow Ck S010	0.88	0.10	1
Willow Ck S020	0.88	0.10	1
Willow Ck S030	0.88	0.10	0
Willow Ck S040	0.88	0.10	0
Willow Ck S050	0.88	0.10	1
Willow Ck S060	0.88	0.10	4
Willow Ck S070	0.88	0.10	1
Willow Ck S080	0.88	0.10	1
Willow Ck S090	0.88	0.10	3

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Coal_Bed_Br_S010	0.88	0.10	0
Boons_Ck_S100	0.88	0.10	29
Jasper_Ck_S010	0.86	0.09	1
Jasper_Ck_S020	0.86	0.09	4
Bridgeport_S002	0.80	0.08	61
Bridgeport_S001	0.80	0.08	20
West_Fork_S162	0.87	0.09	2
West_Fork_S161	0.87	0.09	3
West_Fork_S163	0.87	0.09	3
West_Fork_S164	0.87	0.09	1
West_Fork_S165	0.87	0.09	19
West_Fork_S166	0.87	0.09	3
Dry_Ck_S010	1.01	0.10	6
Dry_Ck_S020	1.01	0.10	2
Dry_Ck_S030	1.01	0.10	2
Dry_Ck_S040	1.01	0.10	1
Dry_Ck_S050	1.01	0.10	1
Dry_Ck_S060	1.01	0.10	1
Dry_Ck_S070	1.01	0.10	1
Dry_Ck_S080	1.01	0.10	0
Dry_Ck_S090	1.01	0.10	2
Dry_Ck_S100	1.01	0.10	4
Dry_Ck_S110	1.01	0.10	5
West_Fork_S171	0.90	0.10	1
West_Fork_S172	0.90	0.10	1
Amon_G_Carter_S030	1.50	0.09	8
Amon_G_Carter_S010	2.87	0.09	1
Amon_G_Carter_S020	1.15	0.09	0
Big_Sandy_Ck_S010	1.37	0.09	3
Big_Sandy_Ck_S011	1.00	0.10	1
Big_Sandy_Ck_S012	1.00	0.10	6
Big_Sandy_Ck_S013	1.00	0.10	0
Big_Sandy_Ck_S014	1.00	0.10	1
Big_Sandy_Ck_S015	1.00	0.10	1
Big_Sandy_Ck_S016	1.00	0.10	0
Big_Sandy_Ck_S017	1.00	0.10	1
Pringle_Ck_S010	1.00	0.10	1

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Pringle Ck S020	1.00	0.10	1
Pringle Ck S030	1.00	0.10	1
Pringle Ck S040	1.00	0.10	1
Pringle Ck S050	1.00	0.10	0
Pringle Ck S060	1.00	0.10	0
Big Sandy Ck S018	1.00	0.10	0
Brushy Ck S010	1.05	0.10	3
Brushy Ck S021	1.26	0.10	1
Brushy Ck S022	1.26	0.10	2
Brushy Ck S023	1.26	0.10	0
Brushy Ck S024	1.26	0.10	1
Brushy Ck S025	1.26	0.10	1
Brushy Ck S026	1.26	0.10	2
Grapevine Ck S010	1.26	0.10	1
Grapevine Ck S020	1.26	0.10	1
Grapevine Ck S030	1.26	0.10	1
Grapevine Ck S040	1.26	0.10	1
Brushy Ck S027	1.26	0.10	2
Brushy Ck S028	1.26	0.10	3
Brushy Ck S029	1.26	0.10	2
Dry Hollow Br S010	1.74	0.10	0
Dry Hollow Br S020	1.74	0.10	1
Dry Hollow Br S030	1.74	0.10	1
Dry Hollow Br S040	1.74	0.10	1
Dry Hollow Br S050	1.74	0.10	1
Dry Hollow Br S060	1.74	0.10	1
Dry Hollow Br S070	1.74	0.10	7
Dry Hollow Br S080	1.74	0.10	3
Big Sandy Ck S021	1.26	0.10	1
Chicken Ck S010	1.26	0.10	1
Chicken Ck S020	1.26	0.10	1
Chicken Ck S030	1.26	0.10	1
Big Sandy Ck S022	1.26	0.10	1
Big Sandy Ck Trib S010	1.26	0.10	3
Big Sandy Ck Trib S020	1.26	0.10	22
Big Sandy Ck Trib S030	1.26	0.10	4
Big Sandy Ck S023	1.26	0.10	0

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Big Sandy Ck S024	1.26	0.10	5
Big Sandy Ck S025	1.26	0.10	1
Mudhole Br S010	1.26	0.10	0
Mudhole Br S020	1.26	0.10	0
Big Sandy Ck S026	1.26	0.10	1
Big Sandy Ck S027	1.26	0.10	0
Big Sandy Ck S028	1.26	0.10	2
Briar Br S010	1.08	0.10	0
Briar Br S020	1.08	0.10	0
Briar Br S030	1.08	0.10	2
Briar Br S040	1.08	0.10	6
Walkers Br S010	1.08	0.10	1
Walkers Br S020	1.08	0.10	1
Walkers Br S030	1.08	0.10	2
Walkers Br S040	1.08	0.10	7
Briar Br S050	1.08	0.10	1
Briar Br S060	1.08	0.10	0
Big Sandy Ck S031	1.08	0.10	1
Big Sandy Ck S032	1.08	0.10	3
Big Sandy Ck S033	1.08	0.10	1
Big Sandy Ck S034	1.08	0.10	1
Watson Br S010	1.08	0.10	1
Watson Br S020	1.08	0.10	1
Watson Br S030	1.08	0.10	4
Watson Br S040	1.08	0.10	1
Twin Pond CK S010	1.08	0.10	2
Twin Pond CK S020	1.08	0.10	1
Watson Br S050	1.08	0.10	0
Big Sandy Ck S035	1.08	0.10	1
Big Sandy Ck S041	1.06	0.10	2
Waggoner Br S010	1.06	0.10	11
Waggoner Br S020	1.06	0.10	7
Waggoner Br S030	1.06	0.10	1
Rosebud Br S010	1.06	0.10	1
Rosebud Br S020	1.06	0.10	1
Rosebud Br S030	1.06	0.10	2
Waggoner Br S040	1.06	0.10	1

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Big Sandy Ck S042	1.06	0.10	1
Big Sandy Ck S043	1.06	0.10	1
West Fork S181	1.05	0.10	1
West Fork S182	1.05	0.10	0
West Fork S183	1.05	0.10	1
West Fork S184	1.05	0.10	1
Martin Br S010	1.05	0.10	22
Martin Br S020	1.05	0.10	2
Martin Br S030	1.05	0.10	1
Martin Br S040	1.05	0.10	0
Martin Br S050	1.05	0.10	2
Martin Br S060	1.05	0.10	1
West Fork S185	1.05	0.10	0
West Fork S191	0.89	0.10	3
West Fork S192	0.89	0.10	1
Garrett Ck S001	2.29	0.10	0
Garrett Ck S002	2.29	0.10	0
Garrett Ck S003	2.29	0.10	0
Garrett Ck S004	2.29	0.10	1
Garrett Ck S005	2.29	0.10	1
Garrett Ck S006	2.29	0.10	1
Garrett Ck S007	2.29	0.10	1
Garrett Ck S008	2.29	0.10	0
Rush Ck S010	2.20	0.10	0
Rush Ck S020	2.20	0.10	2
Rush Ck S050	2.20	0.10	1
Rush Ck S030	2.20	0.10	1
Rush Ck S040	2.20	0.10	1
Rush Ck S060	2.20	0.10	1
Rush Ck S070	2.20	0.10	0
Garrett Ck S009	2.20	0.10	1
Garrett Ck S031	0.89	0.10	1
Garrett Ck S032	0.89	0.10	2
Garrett Ck S033	0.89	0.10	1
Salt Ck S001	3.62	0.10	0
Salt Ck S002	3.62	0.10	1
Salt Ck S003	3.62	0.10	1

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Salt Ck S004	3.62	0.10	0
Salt Ck S005	3.62	0.10	1
Salt Ck S006	3.62	0.10	1
Salt Ck S007	3.62	0.10	0
Salt Ck S008	3.62	0.10	0
Salt Ck S009	3.62	0.10	1
Gonzollas Ck S010	3.62	0.10	0
Gonzollas Ck S020	3.62	0.10	1
Gonzollas Ck S030	3.62	0.10	1
Salt Ck S011	2.14	0.10	1
Pecan Br S010	2.14	0.10	1
Salt Ck S012	2.14	0.10	2
Salt Ck S013	2.14	0.10	0
Salt Ck S014	2.14	0.10	1
Salt Ck S015	2.14	0.10	0
Salt Ck S016	2.14	0.10	1
Salt Ck S017	2.14	0.10	1
Salt Ck S018	2.14	0.10	1
Cottonwood Ck S010	2.14	0.10	1
Cottonwood Ck S020	2.14	0.10	1
Salt Ck S019	2.14	0.10	2
Salt Ck S021	0.89	0.10	1
Garrett Ck S034	0.89	0.10	1
Salt Ck S022	0.89	0.10	0
West Fork S201	0.90	0.10	1
Lola Ck S010	0.90	0.10	1
Lola Ck S020	0.90	0.10	1
West Fork S202	0.90	0.10	1
West Fork S203	0.90	0.10	4
West Fork S204	0.90	0.10	1
West Fork S205	0.90	0.10	1
West Fork S206	0.90	0.10	2
West Fork S207	0.90	0.10	2
West Fork S208	0.90	0.10	2
Walker Ck S010	0.90	0.10	1
Walker Ck S020	0.90	0.10	1
West Fork S209	0.90	0.10	3

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
West Fork S211	1.41	0.10	5
Deep Ck S10	1.41	0.10	2
Deep Ck S20	1.41	0.10	1
Deep Ck S30	1.41	0.10	1
West Fork S212	1.41	0.10	0
Blue Ck S10	1.41	0.10	3
Blue Ck S20	1.41	0.10	8
Blue Ck S25	1.41	0.10	3
Blue Ck S40	1.41	0.10	1
Blue Ck S30	1.41	0.10	1
Blue Ck S50	1.41	0.10	6
Blue Ck S60	1.41	0.10	5
West Fork S213	1.41	0.10	5
West Fork S214	1.41	0.10	5
West Fork S215	1.41	0.10	1
Hog Branch S10	1.41	0.10	0
Hog Branch S20	1.41	0.10	1
Hog Branch S30	1.41	0.10	1
Hog Branch S40	1.41	0.10	2
West Fork S216	1.41	0.10	2
West Fork S217	1.41	0.10	1
Dry Fork S10	0.88	0.10	1
Dry Fork S20	0.88	0.10	1
Eagle Mountain S001	0.88	0.10	4
Oates Branch S10	0.88	0.10	9
Oates Branch S30	0.88	0.10	2
Oates Branch S20	0.88	0.10	14
Oates Branch S40	0.88	0.10	2
Oates Branch S50	0.88	0.10	4
Oates Branch S60	0.88	0.10	2
Oates Branch S70	0.88	0.10	1
Eagle Mountain S002	0.88	0.10	12
Eagle Mountain S003	0.88	0.10	15
Derrett Ck S30	0.88	0.10	3
Derrett Ck S40	0.88	0.10	7
Derrett Ck S50	0.88	0.10	2
Derrett Ck S60	0.88	0.10	7

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Eagle Mountain S004	0.88	0.10	45
Briar Ck S10	0.88	0.10	2
Briar Ck S20	0.88	0.10	6
Eagle Mountain S005	0.88	0.10	54
Eagle Mountain S006	0.88	0.10	43
Indian Ck S010	0.83	0.09	13
Indian Ck S020	0.83	0.09	6
Indian Ck S030	0.83	0.09	5
Moss Branch S010	0.83	0.09	5
Moss Branch S020	0.83	0.09	2
Indian Ck S040	0.83	0.09	3
Indian Ck S050	0.83	0.09	26
Gilmore Branch S010	0.84	0.09	3
Eagle Mountain S031	0.84	0.09	38
Swift Branch S010	0.84	0.09	1
Walnut Ck S001	0.89	0.10	4
Walnut Ck S002	0.89	0.10	1
Walnut Ck S003	0.89	0.10	1
Walnut Ck S004	0.89	0.10	2
Goshen Ck S010	0.89	0.10	1
Goshen Ck S020	0.89	0.10	2
Walnut Ck S005	0.89	0.10	8
Walnut Ck S006	0.89	0.10	1
Walnut Ck S007	0.89	0.10	5
Walnut Ck S008	0.89	0.10	21
Browders Ck S010	0.89	0.10	2
Browders Ck S020	0.89	0.10	1
Browders Ck S030	0.89	0.10	10
Walnut Ck S009	0.89	0.10	2
Dry Br S010	0.89	0.10	1
Dry Br S020	0.89	0.10	3
Dry Br S030	0.89	0.10	2
Woody Ck S010	0.90	0.10	1
Woody Ck S020	0.90	0.10	2
Woody Ck S030	0.90	0.10	1
Walnut Ck S010	0.89	0.10	0
Walnut Ck S011	0.90	0.10	0

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Walnut Ck S012	0.90	0.10	3
Walnut Ck S013	0.90	0.10	5
Walnut Ck S014	0.90	0.10	1
Walnut Ck Trib S010	0.90	0.10	1
Walnut Ck Trib S020	0.90	0.10	0
Walnut Ck Trib S030	0.90	0.10	1
Walnut Ck Trib S040	0.90	0.10	0
Walnut Ck Trib S050	0.90	0.10	1
Walnut Ck Trib S060	0.90	0.10	0
Walnut Ck Trib S070	0.90	0.10	1
Walnut Ck Trib S080	0.90	0.10	1
Walnut Ck S015	0.90	0.10	0
Walnut Ck S016	0.90	0.10	2
Walnut Ck S017	0.90	0.10	1
Walnut Ck S018	0.90	0.10	1
Walnut Ck S019	0.90	0.10	1
Walnut Ck S021	0.90	0.10	10
Cottonwood Br S010	0.90	0.10	10
Cottonwood Br S020	0.90	0.10	3
Walnut Ck S022	0.90	0.10	1
Walnut Ck S023	0.90	0.10	1
Walnut Ck S024	0.90	0.10	4
Walnut Ck S025	0.90	0.10	7
Walnut Ck S026	0.90	0.10	5
Walnut Ck S027	0.90	0.10	3
Walnut Ck S028	0.90	0.10	7
Dosier Ck S010	0.84	0.09	6
Little Dosier Ck S010	0.84	0.09	7
Eagle Mountain S032	0.84	0.09	46
Ash Ck S010	0.88	0.10	1
Ash Ck S020	0.88	0.10	1
Ash Ck S030	0.88	0.10	2
Ash Ck S040	0.88	0.10	2
Ash Ck S050	0.88	0.10	6
Ash Ck S060	0.88	0.10	16
Ash Ck S070	0.88	0.10	6
Ash Ck S080	0.88	0.10	16

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Ash Ck S090	0.88	0.10	5
Eagle Mountain S033	0.84	0.09	37
Lake Worth S010	0.87	0.09	19
Silver Ck S010	1.17	0.10	1
Silver Ck S020	1.17	0.10	1
Silver Ck S030	1.17	0.10	1
Silver Ck S040	1.17	0.10	1
Silver Ck S050	1.17	0.10	2
Silver Ck S060	1.17	0.10	3
Silver Ck S070	1.17	0.10	3
Silver Ck S080	1.17	0.10	1
Little Silver Ck S010	1.17	0.10	1
Little Silver Ck S020	1.17	0.10	3
Little Silver Ck S030	1.17	0.10	0
Little Silver Ck S040	1.17	0.10	2
Little Silver Ck S050	1.17	0.10	4
Silver Ck S090	1.17	0.10	3
Silver Ck S100	1.15	0.09	3
Silver Ck S110	1.15	0.09	4
Silver Ck S120	1.15	0.09	3
Silver Ck S130	1.15	0.09	4
Silver Ck S140	1.15	0.09	1
Mill Ck S010	1.15	0.09	5
Mill Ck S020	1.15	0.09	3
Mill Ck S030	1.15	0.09	4
Mill Ck S040	1.15	0.09	6
Silver Ck S150	1.15	0.09	2
Live Oak Ck S010	1.15	0.09	5
Live Oak Ck S020	1.15	0.09	7
Lake Worth S020	0.85	0.09	43

Snyder's Transform Parameters

The Snyder's Unit Hydrograph method was used to route excess precipitation to the outlet of each subbasin. Initial estimates for unit hydrograph parameters for the subbasins were made using a Snyder's lag time equation which utilizes measured watershed characteristics in addition to a calibrated coefficient (C_t). The below equation from the Texas Commission on Environmental Quality (TCEQ), Hydrologic and Hydraulic Guidelines for Dams in Texas, was used to estimate the Snyder lag time based on measurable watershed characteristics and the coefficient C_t that is assumed to be consistent for a watershed and can thus be used to develop lag times for any additional subbasins within the watershed.

$$T_L = C_t(L \cdot L_{CA}/S^{0.5})^{0.38}$$

T_L = Lag Time (hr)
 C_t = coefficient
 L = hydraulic length of watershed along the longest flow path (mi)
 L_{CA} = hydraulic length along the longest water course from the point under consideration to a point opposite the centroid of the drainage basin (mi)
 S = weighted slope of the basin (ft/mi), measured from the 85% to the 10% points along the longest stream path in the basin (EM 1110-2-1405)

Equation 1 – Snyder Unit Hydrograph Equation

The calibrated C_t and peaking coefficient for this watershed were back calculated from the InFRM WHA calibrated HEC-HMS model for the Trinity River Basin. The Snyder Unit Hydrograph (UH) parameters were transformed from the WHA basins by utilizing the calibrated C_t coefficient values to recompute lag time for each delineated subbasin with the new physical hydrologic parameters (L , L_{cs} and S) for each new subbasin.

Table 3-3. HEC-HMS Subbasin Snyder's Transform Parameters

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
West Fork S010	5.50	0.72
West Fork S020	7.20	0.72
West Fork S030	8.00	0.72
West Fork S040	6.80	0.72
West Fork S050	5.80	0.72
West Fork S060	8.40	0.72
West Fork S070	6.70	0.72
West Fork S080	4.00	0.69
West Fork S090	6.80	0.70
West Fork S100	6.00	0.70

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
West Fork S120	7.80	0.65
West Fork S110	6.60	0.66
Big Cleveland S010	7.30	0.65
Big Cleveland S020	6.70	0.64
West Fork S130	3.60	0.63
Lost Ck S010	4.00	0.53
Lost Ck S020	4.30	0.71
West Fork S140	5.30	0.71
West Fork S150	6.00	0.71
West Fork S160	5.20	0.71
Beans Ck S010	4.90	0.71
Beans Ck S020	2.70	0.71
Big Ck S010	5.60	0.71
Big Ck S021	2.12	0.71
Big Ck S022	1.42	0.71
Big Ck S023	1.04	0.71
Big Ck S024	2.27	0.71
Big Ck S031	1.60	0.71
Big Ck S032	2.33	0.71
Big Ck S033	1.62	0.71
Big Ck S034	1.20	0.71
Big Ck S035	1.49	0.71
Big Ck S036	0.92	0.71
Big Ck S037	1.92	0.71
Boons Ck S010	2.61	0.70
Boons Ck S020	1.24	0.70
Boons Ck S030	1.03	0.70
Boons Ck S040	1.72	0.70
Boons Ck S050	2.61	0.70
Boons Ck S060	2.22	0.70
Boons Ck S070	1.74	0.70
Boons Ck S080	1.92	0.70
Boons Ck S090	1.65	0.70
Willow Ck S010	1.05	0.70
Willow Ck S020	0.82	0.70
Willow Ck S030	1.35	0.70
Willow Ck S040	0.84	0.70
Willow Ck S050	2.15	0.70

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Willow Ck S060	0.47	0.70
Willow Ck S070	0.93	0.70
Willow Ck S080	1.96	0.70
Willow Ck S090	2.22	0.70
Coal Bed Br S010	2.05	0.70
Boons Ck S100	0.77	0.70
Jasper Ck S010	5.06	0.71
Jasper Ck S020	1.50	0.71
Bridgeport S002	3.03	0.71
Bridgeport S001	2.11	0.71
West Fork S162	3.21	0.65
West Fork S161	2.90	0.65
West Fork S163	2.44	0.65
West Fork S164	1.42	0.65
West Fork S165	2.05	0.65
West Fork S166	2.94	0.65
Dry Ck S010	2.47	0.66
Dry Ck S020	0.72	0.66
Dry Ck S030	2.21	0.66
Dry Ck S040	1.12	0.66
Dry Ck S050	0.96	0.66
Dry Ck S060	2.06	0.66
Dry Ck S070	1.66	0.66
Dry Ck S080	0.91	0.66
Dry Ck S090	2.17	0.66
Dry Ck S100	1.67	0.66
Dry Ck S110	2.17	0.66
West Fork S171	1.22	0.66
West Fork S172	1.73	0.66
Amon G Carter S030	5.20	0.62
Amon G Carter S010	5.60	0.63
Amon G Carter S020	5.30	0.63
Big Sandy Ck S010	5.80	0.66
Big Sandy Ck S011	0.72	0.66
Big Sandy Ck S012	1.31	0.66
Big Sandy Ck S013	1.55	0.66
Big Sandy Ck S014	1.63	0.66
Big Sandy Ck S015	2.85	0.66

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Big Sandy Ck S016	3.70	0.66
Big Sandy Ck S017	3.27	0.66
Pringle Ck S010	3.03	0.66
Pringle Ck S020	3.20	0.66
Pringle Ck S030	1.53	0.66
Pringle Ck S040	1.80	0.66
Pringle Ck S050	1.50	0.66
Pringle Ck S060	1.81	0.66
Big Sandy Ck S018	1.89	0.66
Brushy Ck S010	6.80	0.71
Brushy Ck S021	4.38	0.66
Brushy Ck S022	1.25	0.66
Brushy Ck S023	2.98	0.66
Brushy Ck S024	2.02	0.66
Brushy Ck S025	1.89	0.66
Brushy Ck S026	1.25	0.66
Grapevine Ck S010	2.34	0.66
Grapevine Ck S020	1.25	0.66
Grapevine Ck S030	1.41	0.66
Grapevine Ck S040	1.49	0.66
Brushy Ck S027	1.56	0.66
Brushy Ck S028	1.88	0.66
Brushy Ck S029	3.17	0.66
Dry Hollow Br S010	1.74	0.65
Dry Hollow Br S020	1.38	0.65
Dry Hollow Br S030	0.90	0.65
Dry Hollow Br S040	1.39	0.65
Dry Hollow Br S050	1.11	0.65
Dry Hollow Br S060	1.72	0.65
Dry Hollow Br S070	1.38	0.65
Dry Hollow Br S080	1.96	0.65
Big Sandy Ck S021	1.13	0.65
Chicken Ck S010	1.61	0.65
Chicken Ck S020	1.30	0.65
Chicken Ck S030	2.04	0.65
Big Sandy Ck S022	1.42	0.65
Big Sandy Ck Trib S010	1.33	0.65
Big Sandy Ck Trib S020	1.13	0.65

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Big Sandy Ck Trib S030	1.14	0.65
Big Sandy Ck S023	1.48	0.65
Big Sandy Ck S024	1.71	0.65
Big Sandy Ck S025	1.09	0.65
Mudhole Br S010	2.06	0.65
Mudhole Br S020	1.60	0.65
Big Sandy Ck S026	4.13	0.65
Big Sandy Ck S027	1.24	0.65
Big Sandy Ck S028	1.95	0.65
Briar Br S010	2.18	0.63
Briar Br S020	1.81	0.63
Briar Br S030	0.96	0.63
Briar Br S040	1.01	0.63
Walkers Br S010	2.15	0.63
Walkers Br S020	1.03	0.63
Walkers Br S030	0.95	0.63
Walkers Br S040	0.88	0.63
Briar Br S050	1.83	0.63
Briar Br S060	2.54	0.63
Big Sandy Ck S031	2.23	0.63
Big Sandy Ck S032	1.92	0.63
Big Sandy Ck S033	1.56	0.63
Big Sandy Ck S034	2.32	0.63
Watson Br S010	2.18	0.63
Watson Br S020	1.58	0.63
Watson Br S030	1.55	0.63
Watson Br S040	1.54	0.63
Twin Pond CK S010	2.27	0.63
Twin Pond CK S020	2.02	0.63
Watson Br S050	1.29	0.63
Big Sandy Ck S035	1.97	0.63
Big Sandy Ck S041	1.98	0.68
Waggoner Br S010	1.75	0.68
Waggoner Br S020	1.72	0.68
Waggoner Br S030	1.83	0.68
Rosebud Br S010	0.92	0.68
Rosebud Br S020	0.71	0.68
Rosebud Br S030	0.90	0.68

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Waggoner Br S040	2.17	0.68
Big Sandy Ck S042	1.77	0.68
Big Sandy Ck S043	2.48	0.68
West Fork S181	1.97	0.68
West Fork S182	1.72	0.68
West Fork S183	1.31	0.68
West Fork S184	2.73	0.68
Martin Br S010	1.90	0.68
Martin Br S020	1.24	0.68
Martin Br S030	1.52	0.68
Martin Br S040	0.82	0.68
Martin Br S050	1.76	0.68
Martin Br S060	2.35	0.68
West Fork S185	0.98	0.68
West Fork S191	2.40	0.69
West Fork S192	2.19	0.69
Garrett Ck S001	1.28	0.65
Garrett Ck S002	1.15	0.65
Garrett Ck S003	1.22	0.65
Garrett Ck S004	0.73	0.65
Garrett Ck S005	2.31	0.65
Garrett Ck S006	0.90	0.65
Garrett Ck S007	1.98	0.65
Garrett Ck S008	2.51	0.65
Rush Ck S010	2.39	0.66
Rush Ck S020	1.21	0.66
Rush Ck S050	0.83	0.66
Rush Ck S030	1.87	0.66
Rush Ck S040	1.01	0.66
Rush Ck S060	1.14	0.66
Rush Ck S070	1.65	0.66
Garrett Ck S009	1.37	0.66
Garrett Ck S031	1.89	0.67
Garrett Ck S032	1.39	0.67
Garrett Ck S033	2.64	0.69
Salt Ck S001	1.35	0.66
Salt Ck S002	0.65	0.66
Salt Ck S003	1.63	0.66

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Salt Ck S004	0.45	0.66
Salt Ck S005	1.94	0.66
Salt Ck S006	2.52	0.66
Salt Ck S007	0.96	0.66
Salt Ck S008	2.23	0.66
Salt Ck S009	2.40	0.66
Gonzollas Ck S010	1.90	0.66
Gonzollas Ck S020	2.07	0.66
Gonzollas Ck S030	1.18	0.66
Salt Ck S011	2.07	0.69
Pecan Br S010	2.96	0.69
Salt Ck S012	0.97	0.69
Salt Ck S013	2.06	0.69
Salt Ck S014	1.44	0.69
Salt Ck S015	1.15	0.69
Salt Ck S016	1.15	0.69
Salt Ck S017	1.37	0.69
Salt Ck S018	2.74	0.69
Cottonwood Ck S010	0.98	0.69
Cottonwood Ck S020	2.57	0.69
Salt Ck S019	2.53	0.69
Salt Ck S021	1.91	0.69
Garrett Ck S034	2.58	0.69
Salt Ck S022	3.08	0.69
West Fork S201	1.57	0.68
Lola Ck S010	1.94	0.68
Lola Ck S020	3.32	0.68
West Fork S202	1.07	0.68
West Fork S203	2.30	0.68
West Fork S204	2.00	0.68
West Fork S205	1.60	0.68
West Fork S206	1.26	0.68
West Fork S207	0.55	0.68
West Fork S208	1.32	0.68
Walker Ck S010	1.68	0.68
Walker Ck S020	1.32	0.68
West Fork S209	1.74	0.68
West Fork S211	1.75	0.71

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Deep Ck S10	1.17	0.71
Deep Ck S20	1.46	0.71
Deep Ck S30	1.19	0.71
West Fork S212	1.00	0.71
Blue Ck S10	1.76	0.71
Blue Ck S20	1.32	0.71
Blue Ck S25	0.97	0.71
Blue Ck S40	1.09	0.71
Blue Ck S30	1.85	0.71
Blue Ck S50	0.46	0.71
Blue Ck S60	1.34	0.71
West Fork S213	0.95	0.71
West Fork S214	1.88	0.71
West Fork S215	1.35	0.71
Hog Branch S10	0.77	0.71
Hog Branch S20	1.18	0.71
Hog Brach S30	1.41	0.71
Hog Branch S40	0.43	0.71
West Fork S216	1.17	0.71
West Fork S217	0.70	0.71
Dry Fork S10	0.69	0.72
Dry Fork S20	0.82	0.72
Eagle Mountain S001	2.57	0.72
Oates Branch S10	1.15	0.72
Oates Brannch S30	1.41	0.72
Oates Branch S20	0.60	0.72
Oates Branch S40	1.05	0.72
Oates Branch S50	0.86	0.72
Oates Branch S60	1.68	0.72
Oates Branch S70	0.79	0.72
Eagle Mountain S002	1.79	0.72
Eagle Mountain S003	1.30	0.72
Derrett Ck S30	1.50	0.72
Derrett Ck S40	0.35	0.72
Derrett Ck S50	0.88	0.72
Derrett Ck S60	1.03	0.72
Eagle Mountain S004	1.21	0.72
Briar Ck S10	1.30	0.72

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Briar Ck S20	1.23	0.72
Eagle Mountain S005	0.57	0.72
Eagle Mountain S006	0.73	0.72
Indian Ck S010	1.71	0.72
Indian Ck S020	1.63	0.72
Indian Ck S030	1.42	0.72
Moss Branch S010	1.66	0.72
Moss Branch S020	1.02	0.72
Indian Ck S040	1.57	0.72
Indian Ck S050	1.61	0.72
Gilmore Branch S010	1.30	0.71
Eagle Mountain S031	0.83	0.71
Swift Branch S010	0.65	0.71
Walnut Ck S001	0.81	0.77
Walnut Ck S002	0.65	0.77
Walnut Ck S003	1.06	0.77
Walnut Ck S004	1.19	0.77
Goshen Ck S010	1.21	0.77
Goshen Ck S020	0.92	0.77
Walnut Ck S005	1.13	0.77
Walnut Ck S006	1.22	0.77
Walnut Ck S007	0.46	0.77
Walnut Ck S008	1.08	0.77
Browders Ck S010	0.64	0.77
Browders Ck S020	1.56	0.77
Browders Ck S030	0.81	0.77
Walnut Ck S009	1.30	0.77
Dry Br S010	1.19	0.77
Dry Br S020	1.38	0.77
Dry Br S030	0.91	0.77
Woody Ck S010	1.20	0.77
Woody Ck S020	1.70	0.77
Woody Ck S030	0.88	0.77
Walnut Ck S010	0.41	0.77
Walnut Ck S011	0.50	0.77
Walnut Ck S012	1.28	0.77
Walnut Ck S013	0.85	0.77
Walnut Ck S014	0.71	0.77

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Walnut Ck Trib S010	0.98	0.77
Walnut Ck Trib S020	0.49	0.77
Walnut Ck Trib S030	1.13	0.77
Walnut Ck Trib S040	0.58	0.77
Walnut Ck Trib S050	0.70	0.77
Walnut Ck Trib S060	1.05	0.77
Walnut Ck Trib S070	0.47	0.77
Walnut Ck Trib S080	1.12	0.77
Walnut Ck S015	0.28	0.77
Walnut Ck S016	1.23	0.77
Walnut Ck S017	0.98	0.77
Walnut Ck S018	1.04	0.77
Walnut Ck S019	0.75	0.77
Walnut Ck S021	0.38	0.72
Cottonwood Br S010	0.64	0.72
Cottonwood Br S020	1.28	0.72
Walnut Ck S022	0.75	0.72
Walnut Ck S023	0.94	0.72
Walnut Ck S024	0.59	0.72
Walnut Ck S025	1.25	0.72
Walnut Ck S026	1.26	0.72
Walnut Ck S027	0.95	0.72
Walnut Ck S028	0.79	0.72
Dosier Ck S010	1.17	0.71
Little Dosier Ck S010	0.99	0.71
Eagle Mountain S032	2.36	0.71
Ash Ck S010	0.85	0.72
Ash Ck S020	0.97	0.72
Ash Ck S030	1.32	0.72
Ash Ck S040	1.04	0.72
Ash Ck S050	1.64	0.72
Ash Ck S060	0.99	0.72
Ash Ck S070	0.90	0.72
Ash Ck S080	0.67	0.72
Ash Ck S090	0.70	0.72
Eagle Mountain S033	1.07	0.71
Lake Worth S010	4.50	0.59
Silver Ck S010	1.70	0.59

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Silver Ck S020	2.15	0.59
Silver Ck S030	2.33	0.59
Silver Ck S040	1.51	0.59
Silver Ck S050	2.08	0.59
Silver Ck S060	1.39	0.59
Silver Ck S070	1.59	0.59
Silver Ck S080	0.78	0.59
Little Silver Ck S010	1.45	0.59
Little Silver Ck S020	1.80	0.59
Little Silver Ck S030	1.89	0.59
Little Silver Ck S040	1.40	0.59
Little Silver Ck S050	1.38	0.59
Silver Ck S090	1.93	0.59
Silver Ck S100	1.85	0.59
Silver Ck S110	2.36	0.59
Silver Ck S120	1.45	0.59
Silver Ck S130	1.50	0.59
Silver Ck S140	1.44	0.59
Mill Ck S010	1.62	0.59
Mill Ck S020	1.04	0.59
Mill Ck S030	1.68	0.59
Mill Ck S040	1.48	0.59
Silver Ck S150	1.43	0.59
Live Oak Ck S010	2.05	0.59
Live Oak Ck S020	1.57	0.59
Lake Worth S020	3.30	0.59

Baseflows

Baseflows were assumed the same for the delineated basins that coincided with the WHA basins.

Table 3-4. HEC-HMS Subbasin Baseflow Parameters

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
West Fork S010	8.79	0.75	0.01
West Fork S020	9.28	0.74	0.01
West Fork S030	8.78	0.74	0.01
West Fork S040	9.29	0.72	0.01

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
West Fork S050	8.19	0.71	0.01
West Fork S060	9.44	0.70	0.01
West Fork S070	8.52	0.72	0.01
West Fork S080	8.42	0.67	0.02
West Fork S090	8.24	0.70	0.01
West Fork S100	7.68	0.66	0.02
West Fork S120	6.84	0.64	0.01
West Fork S110	7.55	0.61	0.01
Big Cleveland S010	6.88	0.64	0.02
Big Cleveland S020	5.34	0.61	0.02
West Fork S130	6.97	0.60	0.02
Lost Ck S010	6.92	0.76	0.04
Lost Ck S020	6.63	0.72	0.03
West Fork S140	0.00	0.69	0.03
West Fork S150	0.00	0.72	0.03
West Fork S160	0.00	0.67	0.04
Beans Ck S010	0.00	0.70	0.04
Beans Ck S020	0.00	0.71	0.05
Big Ck S010	0.00	0.68	0.04
Big Ck S021	0.00	0.70	0.04
Big Ck S022	0.00	0.70	0.04
Big Ck S023	0.00	0.70	0.04
Big Ck S024	0.00	0.70	0.04
Big Ck S031	0.00	0.72	0.05
Big Ck S032	0.00	0.72	0.05
Big Ck S033	0.00	0.72	0.05
Big Ck S034	0.00	0.72	0.05
Big Ck S035	0.00	0.72	0.05
Big Ck S036	0.00	0.72	0.05
Big Ck S037	0.00	0.72	0.05
Boons Ck S010	0.00	0.74	0.05
Boons Ck S020	0.00	0.74	0.05
Boons Ck S030	0.00	0.74	0.05
Boons Ck S040	0.00	0.74	0.05
Boons Ck S050	0.00	0.74	0.05
Boons Ck S060	0.00	0.74	0.05
Boons Ck S070	0.00	0.74	0.05
Boons Ck S080	0.00	0.74	0.05

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Boons Ck S090	0.00	0.74	0.05
Willow Ck S010	0.00	0.76	0.05
Willow Ck S020	0.00	0.76	0.05
Willow Ck S030	0.00	0.76	0.05
Willow Ck S040	0.00	0.76	0.05
Willow Ck S050	0.00	0.76	0.05
Willow Ck S060	0.00	0.76	0.05
Willow Ck S070	0.00	0.76	0.05
Willow Ck S080	0.00	0.76	0.05
Willow Ck S090	0.00	0.76	0.05
Coal Bed Br S010	0.00	0.76	0.05
Boons Ck S100	0.00	0.76	0.05
Jasper Ck S010	0.00	0.71	0.05
Jasper Ck S020	0.00	0.71	0.05
Bridgeport S002	0.00	0.73	0.05
Bridgeport S001	0.00	0.73	0.05
West Fork S162	2.00	0.70	0.02
West Fork S161	2.00	0.70	0.02
West Fork S163	2.00	0.70	0.02
West Fork S164	2.00	0.70	0.02
West Fork S165	2.00	0.70	0.02
West Fork S166	2.00	0.70	0.02
Dry Ck S010	1.02	0.70	0.01
Dry Ck S020	1.02	0.70	0.01
Dry Ck S030	1.02	0.70	0.01
Dry Ck S040	1.02	0.70	0.01
Dry Ck S050	1.02	0.70	0.01
Dry Ck S060	1.02	0.70	0.01
Dry Ck S070	1.02	0.70	0.01
Dry Ck S080	1.02	0.70	0.01
Dry Ck S090	1.02	0.70	0.01
Dry Ck S100	1.02	0.70	0.01
Dry Ck S110	1.02	0.70	0.01
West Fork S171	0.00	0.70	0.02
West Fork S172	0.00	0.70	0.02
Amon G Carter S030	0.00	0.74	0.05
Amon G Carter S010	0.00	0.73	0.05
Amon G Carter S020	0.00	0.74	0.05

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Big Sandy Ck S010	0.00	0.66	0.03
Big Sandy Ck S011	0.00	0.63	0.03
Big Sandy Ck S012	0.00	0.63	0.03
Big Sandy Ck S013	0.00	0.63	0.03
Big Sandy Ck S014	0.00	0.63	0.03
Big Sandy Ck S015	0.00	0.63	0.03
Big Sandy Ck S016	0.00	0.63	0.03
Big Sandy Ck S017	0.00	0.63	0.03
Pringle Ck S010	0.00	0.63	0.03
Pringle Ck S020	0.00	0.63	0.03
Pringle Ck S030	0.00	0.63	0.03
Pringle Ck S040	0.00	0.63	0.03
Pringle Ck S050	0.00	0.63	0.03
Pringle Ck S060	0.00	0.63	0.03
Big Sandy Ck S018	0.00	0.63	0.03
Brushy Ck S010	0.00	0.65	0.04
Brushy Ck S021	0.00	0.63	0.04
Brushy Ck S022	0.00	0.63	0.04
Brushy Ck S023	0.00	0.63	0.04
Brushy Ck S024	0.00	0.63	0.04
Brushy Ck S025	0.00	0.63	0.04
Brushy Ck S026	0.00	0.63	0.04
Grapevine Ck S010	0.00	0.63	0.04
Grapevine Ck S020	0.00	0.63	0.04
Grapevine Ck S030	0.00	0.63	0.04
Grapevine Ck S040	0.00	0.63	0.04
Brushy Ck S027	0.00	0.63	0.04
Brushy Ck S028	0.00	0.63	0.04
Brushy Ck S029	0.00	0.63	0.04
Dry Hollow Br S010	0.00	0.64	0.07
Dry Hollow Br S020	0.00	0.64	0.07
Dry Hollow Br S030	0.00	0.64	0.07
Dry Hollow Br S040	0.00	0.64	0.07
Dry Hollow Br S050	0.00	0.64	0.07
Dry Hollow Br S060	0.00	0.64	0.07
Dry Hollow Br S070	0.00	0.64	0.07
Dry Hollow Br S080	0.00	0.64	0.07
Big Sandy Ck S021	0.00	0.64	0.03

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Chicken Ck S010	0.00	0.64	0.03
Chicken Ck S020	0.00	0.64	0.03
Chicken Ck S030	0.00	0.64	0.03
Big Sandy Ck S022	0.00	0.64	0.03
Big Sandy Ck Trib S010	0.00	0.64	0.03
Big Sandy Ck Trib S020	0.00	0.64	0.03
Big Sandy Ck Trib S030	0.00	0.64	0.03
Big Sandy Ck S023	0.00	0.64	0.03
Big Sandy Ck S024	0.00	0.64	0.03
Big Sandy Ck S025	0.00	0.64	0.03
Mudhole Br S010	0.00	0.64	0.03
Mudhole Br S020	0.00	0.64	0.03
Big Sandy Ck S026	0.00	0.64	0.03
Big Sandy Ck S027	0.00	0.64	0.03
Big Sandy Ck S028	0.00	0.64	0.03
Briar Br S010	0.00	0.67	0.03
Briar Br S020	0.00	0.67	0.03
Briar Br S030	0.00	0.67	0.03
Briar Br S040	0.00	0.67	0.03
Walkers Br S010	0.00	0.67	0.03
Walkers Br S020	0.00	0.67	0.03
Walkers Br S030	0.00	0.67	0.03
Walkers Br S040	0.00	0.67	0.03
Briar Br S050	0.00	0.67	0.03
Briar Br S060	0.00	0.67	0.03
Big Sandy Ck S031	0.00	0.67	0.03
Big Sandy Ck S032	0.00	0.67	0.03
Big Sandy Ck S033	0.00	0.67	0.03
Big Sandy Ck S034	0.00	0.67	0.03
Watson Br S010	0.00	0.67	0.03
Watson Br S020	0.00	0.67	0.03
Watson Br S030	0.00	0.67	0.03
Watson Br S040	0.00	0.67	0.03
Twin Pond CK S010	0.00	0.67	0.03
Twin Pond CK S020	0.00	0.67	0.03
Watson Br S050	0.00	0.67	0.03
Big Sandy Ck S035	0.00	0.67	0.03
Big Sandy Ck S041	0.76	0.70	0.01

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Waggoner Br S010	0.76	0.70	0.01
Waggoner Br S020	0.76	0.70	0.01
Waggoner Br S030	0.76	0.70	0.01
Rosebud Br S010	0.76	0.70	0.01
Rosebud Br S020	0.76	0.70	0.01
Rosebud Br S030	0.76	0.70	0.01
Waggoner Br S040	0.76	0.70	0.01
Big Sandy Ck S042	0.76	0.70	0.01
Big Sandy Ck S043	0.76	0.70	0.01
West Fork S181	0.65	0.70	0.01
West Fork S182	0.65	0.70	0.01
West Fork S183	0.65	0.70	0.01
West Fork S184	0.65	0.70	0.01
Martin Br S010	0.65	0.70	0.01
Martin Br S020	0.65	0.70	0.01
Martin Br S030	0.65	0.70	0.01
Martin Br S040	0.65	0.70	0.01
Martin Br S050	0.65	0.70	0.01
Martin Br S060	0.65	0.70	0.01
West Fork S185	0.65	0.70	0.01
West Fork S191	0.00	0.70	0.01
West Fork S192	0.00	0.70	0.01
Garrett Ck S001	0.57	0.70	0.01
Garrett Ck S002	0.57	0.70	0.01
Garrett Ck S003	0.57	0.70	0.01
Garrett Ck S004	0.57	0.70	0.01
Garrett Ck S005	0.57	0.70	0.01
Garrett Ck S006	0.57	0.70	0.01
Garrett Ck S007	0.57	0.70	0.01
Garrett Ck S008	0.57	0.70	0.01
Rush Ck S010	0.52	0.70	0.02
Rush Ck S020	0.52	0.70	0.02
Rush Ck S050	0.52	0.70	0.02
Rush Ck S030	0.52	0.70	0.02
Rush Ck S040	0.52	0.70	0.02
Rush Ck S060	0.52	0.70	0.02
Rush Ck S070	0.52	0.70	0.02
Garrett Ck S009	0.52	0.70	0.02

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Garrett Ck S031	0.00	0.70	0.01
Garrett Ck S032	0.00	0.70	0.01
Garrett Ck S033	0.00	0.70	0.01
Salt Ck S001	1.02	0.70	0.02
Salt Ck S002	1.02	0.70	0.02
Salt Ck S003	1.02	0.70	0.02
Salt Ck S004	1.02	0.70	0.02
Salt Ck S005	1.02	0.70	0.02
Salt Ck S006	1.02	0.70	0.02
Salt Ck S007	1.02	0.70	0.02
Salt Ck S008	1.02	0.70	0.02
Salt Ck S009	1.02	0.70	0.02
Gonzollas Ck S010	1.02	0.70	0.02
Gonzollas Ck S020	1.02	0.70	0.02
Gonzollas Ck S030	1.02	0.70	0.02
Salt Ck S011	0.00	0.70	0.01
Pecan Br S010	0.00	0.70	0.01
Salt Ck S012	0.00	0.70	0.01
Salt Ck S013	0.00	0.70	0.01
Salt Ck S014	0.00	0.70	0.01
Salt Ck S015	0.00	0.70	0.01
Salt Ck S016	0.00	0.70	0.01
Salt Ck S017	0.00	0.70	0.01
Salt Ck S018	0.00	0.70	0.01
Cottonwood Ck S010	0.00	0.70	0.01
Cottonwood Ck S020	0.00	0.70	0.01
Salt Ck S019	0.00	0.70	0.01
Salt Ck S021	0.00	0.70	0.01
Garrett Ck S034	0.00	0.70	0.01
Salt Ck S022	0.00	0.70	0.01
West Fork S201	0.00	0.70	0.01
Lola Ck S010	0.00	0.70	0.01
Lola Ck S020	0.00	0.70	0.01
West Fork S202	0.00	0.70	0.01
West Fork S203	0.00	0.70	0.01
West Fork S204	0.00	0.70	0.01
West Fork S205	0.00	0.70	0.01
West Fork S206	0.00	0.70	0.01

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
West Fork S207	0.00	0.70	0.01
West Fork S208	0.00	0.70	0.01
Walker Ck S010	0.00	0.70	0.01
Walker Ck S020	0.00	0.70	0.01
West Fork S209	0.00	0.70	0.01
West Fork S211	0.00	0.50	0.03
Deep Ck S10	0.00	0.50	0.03
Deep Ck S20	0.00	0.50	0.03
Deep Ck S30	0.00	0.50	0.03
West Fork S212	0.00	0.50	0.03
Blue Ck S10	0.00	0.50	0.03
Blue Ck S20	0.00	0.50	0.03
Blue Ck S25	0.00	0.50	0.03
Blue Ck S40	0.00	0.50	0.03
Blue Ck S30	0.00	0.50	0.03
Blue Ck S50	0.00	0.50	0.03
Blue Ck S60	0.00	0.50	0.03
West Fork S213	0.00	0.50	0.03
West Fork S214	0.00	0.50	0.03
West Fork S215	0.00	0.50	0.03
Hog Branch S10	0.00	0.50	0.03
Hog Branch S20	0.00	0.50	0.03
Hog Brach S30	0.00	0.50	0.03
Hog Branch S40	0.00	0.50	0.03
West Fork S216	0.00	0.50	0.03
West Fork S217	0.00	0.50	0.03
Dry Fork S10	0.00	0.50	0.03
Dry Fork S20	0.00	0.50	0.03
Eagle Mountain S001	0.00	0.50	0.03
Oates Branch S10	0.00	0.50	0.03
Oates Brannch S30	0.00	0.50	0.03
Oates Branch S20	0.00	0.50	0.03
Oates Branch S40	0.00	0.50	0.03
Oates Branch S50	0.00	0.50	0.03
Oates Branch S60	0.00	0.50	0.03
Oates Branch S70	0.00	0.50	0.03
Eagle Mountain S002	0.00	0.50	0.03
Eagle Mountain S003	0.00	0.50	0.03

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Derrett Ck S30	0.00	0.50	0.03
Derrett Ck S40	0.00	0.50	0.03
Derrett Ck S50	0.00	0.50	0.03
Derrett Ck S60	0.00	0.50	0.03
Eagle Mountain S004	0.00	0.50	0.03
Briar Ck S10	0.00	0.50	0.03
Briar Ck S20	0.00	0.50	0.03
Eagle Mountain S005	0.00	0.50	0.03
Eagle Mountain S006	0.00	0.50	0.03
Indian Ck S010	0.00	0.50	0.03
Indian Ck S020	0.00	0.50	0.03
Indian Ck S030	0.00	0.50	0.03
Moss Branch S010	0.00	0.50	0.03
Moss Branch S020	0.00	0.50	0.03
Indian Ck S040	0.00	0.50	0.03
Indian Ck S050	0.00	0.50	0.03
Gilmore Branch S010	0.00	0.50	0.02
Eagle Mountain S031	0.00	0.50	0.02
Swift Branch S010	0.00	0.50	0.02
Walnut Ck S001	0.04	0.66	0.02
Walnut Ck S002	0.04	0.66	0.02
Walnut Ck S003	0.04	0.66	0.02
Walnut Ck S004	0.04	0.66	0.02
Goshen Ck S010	0.04	0.66	0.02
Goshen Ck S020	0.04	0.66	0.02
Walnut Ck S005	0.04	0.66	0.02
Walnut Ck S006	0.04	0.66	0.02
Walnut Ck S007	0.04	0.66	0.02
Walnut Ck S008	0.04	0.66	0.02
Browders Ck S010	0.04	0.66	0.02
Browders Ck S020	0.04	0.66	0.02
Browders Ck S030	0.04	0.66	0.02
Walnut Ck S009	0.04	0.66	0.02
Dry Br S010	0.04	0.66	0.02
Dry Br S020	0.04	0.66	0.02
Dry Br S030	0.04	0.66	0.02
Woody Ck S010	0.02	0.66	0.02
Woody Ck S020	0.02	0.66	0.02

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Woody Ck S030	0.02	0.66	0.02
Walnut Ck S010	0.04	0.66	0.02
Walnut Ck S011	0.02	0.66	0.02
Walnut Ck S012	0.02	0.66	0.02
Walnut Ck S013	0.02	0.66	0.02
Walnut Ck S014	0.02	0.66	0.02
Walnut Ck Trib S010	0.02	0.66	0.02
Walnut Ck Trib S020	0.02	0.66	0.02
Walnut Ck Trib S030	0.02	0.66	0.02
Walnut Ck Trib S040	0.02	0.66	0.02
Walnut Ck Trib S050	0.02	0.66	0.02
Walnut Ck Trib S060	0.02	0.66	0.02
Walnut Ck Trib S070	0.02	0.66	0.02
Walnut Ck Trib S080	0.02	0.66	0.02
Walnut Ck S015	0.02	0.66	0.02
Walnut Ck S016	0.02	0.66	0.02
Walnut Ck S017	0.02	0.66	0.02
Walnut Ck S018	0.02	0.66	0.02
Walnut Ck S019	0.02	0.66	0.02
Walnut Ck S021	0.00	0.50	0.03
Cottonwood Br S010	0.00	0.50	0.03
Cottonwood Br S020	0.00	0.50	0.03
Walnut Ck S022	0.00	0.50	0.03
Walnut Ck S023	0.00	0.50	0.03
Walnut Ck S024	0.00	0.50	0.03
Walnut Ck S025	0.00	0.50	0.03
Walnut Ck S026	0.00	0.50	0.03
Walnut Ck S027	0.00	0.50	0.03
Walnut Ck S028	0.00	0.50	0.03
Dosier Ck S010	0.00	0.50	0.02
Little Dosier Ck S010	0.00	0.50	0.02
Eagle Mountain S032	0.00	0.50	0.02
Ash Ck S010	0.00	0.50	0.03
Ash Ck S020	0.00	0.50	0.03
Ash Ck S030	0.00	0.50	0.03
Ash Ck S040	0.00	0.50	0.03
Ash Ck S050	0.00	0.50	0.03
Ash Ck S060	0.00	0.50	0.03

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Ash Ck S070	0.00	0.50	0.03
Ash Ck S080	0.00	0.50	0.03
Ash Ck S090	0.00	0.50	0.03
Eagle Mountain S033	0.00	0.50	0.02
Lake Worth S010	0.00	0.64	0.03
Silver Ck S010	0.00	0.65	0.03
Silver Ck S020	0.00	0.65	0.03
Silver Ck S030	0.00	0.65	0.03
Silver Ck S040	0.00	0.65	0.03
Silver Ck S050	0.00	0.65	0.03
Silver Ck S060	0.00	0.65	0.03
Silver Ck S070	0.00	0.65	0.03
Silver Ck S080	0.00	0.65	0.03
Little Silver Ck S010	0.00	0.65	0.03
Little Silver Ck S020	0.00	0.65	0.03
Little Silver Ck S030	0.00	0.65	0.03
Little Silver Ck S040	0.00	0.65	0.03
Little Silver Ck S050	0.00	0.65	0.03
Silver Ck S090	0.00	0.65	0.03
Silver Ck S100	0.00	0.66	0.04
Silver Ck S110	0.00	0.66	0.04
Silver Ck S120	0.00	0.66	0.04
Silver Ck S130	0.00	0.66	0.04
Silver Ck S140	0.00	0.66	0.04
Mill Ck S010	0.00	0.66	0.04
Mill Ck S020	0.00	0.66	0.04
Mill Ck S030	0.00	0.66	0.04
Mill Ck S040	0.00	0.66	0.04
Silver Ck S150	0.00	0.66	0.04
Live Oak Ck S010	0.00	0.66	0.04
Live Oak Ck S020	0.00	0.66	0.04
Lake Worth S020	0.00	0.65	0.04

3.3.2 Initial Routing Parameters

The initial routing parameters for all the HEC-HMS reaches were estimated using the modified Puls method.

Modified Puls Routing

The storage-discharge curves were calculated from 1D and 2D HEC-RAS models. A stepped inflow hydrograph that covers the range of expected flows were applied as an inflow boundary condition at the upstream end of each reach, and the storage-discharge curves were extracted for the reaches of interest. The number of sub-reaches for each reach were determined using the reach type criteria that is stream slope dependent. In the case of this study, the number of sub reaches was between 1 and 4. 4 subreach was assigned for the steep reaches, and 1 subreach was assigned for the average and flatter reaches.

Table 3-5. HEC-HMS Modified Puls Routing Parameters

Reach Name	Subreach	Reach Name	Subreach
West Fork R010	4	Garrett Ck R030	2
West Fork R020	1	Garrett Ck R040	1
West Fork R030	2	Garrett Ck R050	1
West Fork R040	1	Garrett Ck R060	1
West Fork R050	2	Garrett Ck R070	1
West Fork R060	2	Rush Ck R010	2
West Fork R070	2	Rush Ck R020	1
Big Cleveland R010	3	Rush Ck R030	1
West Fork R080	1	Rush Ck R040	1
West Fork R090	1	Rush Ck R050	1
Lost Ck R010	5	Garrett Ck R080	1
West Fork R100	2	Garrett Ck R090	1
West Fork R110	4	Garrett Ck R100	1
Beans Ck R010	1	Garrett Ck R110	1
Big Ck R010	1	Garrett Ck R120	1
Big Ck R020	2	Salt Ck R010	1
Big Ck R030	2	Salt Ck R020	1
Big Ck R040	2	Salt Ck R030	2
Big Ck R050	1	Salt Ck R040	2
Big Ck R060	1	Salt Ck R050	2
Big Ck R070	1	Gonzollas Ck R010	2
Big Ck R080	1	Gonzollas Ck R020	2
Boons Ck R010	1	Salt Ck R060	1
Boons Ck R020	2	Salt Ck R070	1
Boons Ck R030	2	Salt Ck R080	2
Boons Ck R040	2	Salt Ck R090	1
Boons Ck R050	1	Salt Ck R100	3
Willow Ck R010	1	Salt Ck R110	1

Reach Name	Subreach	Reach Name	Subreach
Willow Ck R020	1	Cottonwood Ck R010	2
Willow Ck R030	1	Salt Ck R120	1
Willow Ck R040	1	Salt Ck R130	2
Willow Ck R050	2	Salt Ck R140	1
Boons Ck R060	1	West Fork R260	1
Coal Bed Br R010	1	Lola Ck R010	1
Jasper Ck R010	1	West Fork R270	1
West Fork R120	2	West Fork R280	2
West Fork R130	1	West Fork R290	1
West Fork R140	1	West Fork R300	1
West Fork R150	1	West Fork R310	1
West Fork R160	2	West Fork R320	1
Dry Ck R010	2	Walker Ck R010	1
Dry Ck R020	1	West Fork R330	1
Dry Ck R030	1	West Fork R340	1
Dry Ck R040	1	Deep Ck R10	2
Dry Ck R050	2	Deep Ck R20	1
Dry Ck R060	1	West Fork R350	1
Dry Ck R070	1	West Fork R360	1
Dry Ck R080	1	Blue Ck R10	1
Dry Ck R090	1	Blue Ck R20	1
West Fork R170	1	Blue Ck R30	1
West Fork R180	1	Blue Ck R40	1
West Fork R190	1	Blue Ck R50	1
Big Sandy Ck R010	4	West Fork R370	1
Big Sandy Ck R020	1	West Fork R380	2
Big Sandy Ck R030	1	West Fork R390	1
Big Sandy Ck R040	1	Hog Branch R10	1
Big Sandy Ck R050	1	Hog Branch R20	2
Big Sandy Ck R060	3	Hog Branch R30	1
Big Sandy Ck R070	2	West Fork R400	1
Pringle Ck R010	1	Dry Fork R10	1
Pringle Ck R020	1	West Fork R410	1
Pringle Ck R030	1	Oates Branch R10	1
Pringle Ck R040	1	Oates Branch R20	2
Big Sandy Ck R080	1	Oates Branch R30	1
Brushy Ck R010	2	Oates Branch R40	1
Brushy Ck R020	1	Derrett Ck R30	1

Reach Name	Subreach	Reach Name	Subreach
Brushy Ck R030	1	Derrett Ck R50	1
Brushy Ck R040	1	Derrett Ck R60	2
Brushy Ck R050	1	Derrett Ck R80	1
Grapevine Ck R010	1	Briar Ck R10	2
Grapevine Ck R020	1	Indian Ck R010	1
Grapevine Ck R030	1	Moss Branch R010	2
Brushy Ck R060	1	Indian Ck R020	1
Brushy Ck R070	1	Gilmore Branch R010	1
Brushy Ck R080	1	Walnut Ck R010	2
Dry Hollow Br R010	1	Walnut Ck R020	1
Dry Hollow Br R020	1	Goshen Ck R010	2
Dry Hollow Br R030	1	Walnut Ck R030	1
Dry Hollow Br R040	1	Walnut Ck R040	1
Dry Hollow Br R050	1	Walnut Ck R050	1
Dry Hollow Br R060	1	Browders Ck R010	2
Big Sandy Ck R090	1	Browders Ck R020	1
Chicken Ck R010	1	Walnut Ck R060	1
Chicken Ck R020	1	Dry Br R010	1
Big Sandy Ck R100	1	Dry Br R020	1
Big Sandy Ck Trib R010	2	Walnut Ck R070	1
Big Sandy Ck Trib R020	1	Woody Ck R010	2
Big Sandy Ck R110	1	Woody Ck R020	1
Big Sandy Ck R115	1	Walnut Ck R080	1
Big Sandy Ck R120	1	Walnut Ck R090	1
Mudhole Br R010	1	Walnut Ck R100	1
Big Sandy Ck R130	2	Walnut Ck Trib R010	1
Big Sandy Ck R140	1	Walnut Ck Trib R020	2
Big Sandy Ck R150	1	Walnut Ck Trib R030	1
Briar Br R010	1	Walnut Ck Trib R040	1
Briar Br R020	1	Walnut Ck Trib R050	1
Walkers Br R010	1	Walnut Ck R110	1
Walkers Br R020	1	Walnut Ck R120	1
Walkers Br R030	1	Walnut Ck R130	1
Briar Br R030	1	Walnut Ck R140	1
Briar Br R040	1	Cottonwood Br R010	2
Big Sandy Ck R160	1	Walnut Ck R150	1
Big Sandy Ck R170	1	Walnut Ck R160	1
Big Sandy Ck R180	1	Walnut Ck R170	1

Reach Name	Subreach	Reach Name	Subreach
Big Sandy Ck R190	1	Walnut Ck R180	2
Watson Br R010	1	Walnut Ck R190	1
Watson Br R020	1	Ash Ck R010	2
Watson Br R030	1	Ash Ck R020	1
Watson Br R040	1	Ash Ck R030	2
Twin Pond Ck R010	1	Ash Ck R040	1
Watson Br R050	1	Ash Ck R050	1
Big Sandy Ck R200	1	West Fork R500	2
Big Sandy Ck R210	1	Silver Ck R010	2
Waggoner Br R010	1	Silver Ck R020	1
Waggoner Br R020	2	Silver Ck R030	1
Rosebud Br R010	1	Silver Ck R040	2
Rosebud Br R020	1	Silver Ck R050	1
Waggoner Br R030	1	Little Silver Ck R010	2
Big Sandy Ck R220	1	Little Silver Ck R020	1
Big Sandy Ck R230	1	Little Silver Ck R030	2
West Fork R200	1	Silver Ck R060	1
West Fork R210	1	Silver Ck R070	1
West Fork R220	1	Silver Ck R080	1
West Fork R230	1	Silver Ck R090	2
Martin Br R010	2	Silver Ck R100	1
Martin Br R020	1	Mill Ck R010	2
Martin Br R030	1	Mill Ck R020	2
Martin Br R040	1	Mill Ck R030	1
West Fork R240	1	Silver Ck R110	1
West Fork R250	1	Silver Ck R120	1
Garrett Ck R010	2	Live Oak Ck R010	1
Garrett Ck R020	2		

4 HEC-HMS Model Calibration

After calculating initial model parameters, the calibration analyses were performed to assess whether adjustments were necessary so that the results of the detailed HEC-HMS model match the results of the original InFRM WHA HEC-HMS model as closely as possible.

4.1 Calibration Methodology

The calibration criteria for the West Fork of the Trinity River Watershed are satisfied once model parameters produced the best matching results between the detailed WHA model and the InFRM WHA HEC-HMS model. A performance rating of statistics was also used as an indicator of how well the model performed during calibration. The following calibration performance metrics from the WHA was used as a guide to give results the appropriate rating.

Performance Rating	NSE	RSR	PBIAS
Very Good	$0.80 \leq \text{NSE} < 1.00$	$0 \leq \text{RSR} \leq 0.50$	$0 \leq \text{PBIAS} \leq \pm 5$
Good	$0.70 \leq \text{NSE} < 0.80$	$0.50 < \text{RSR} \leq 0.60$	$\pm 5 < \text{PBIAS} < \pm 10$
Satisfactory	$0.50 \leq \text{NSE} < 0.70$	$0.60 < \text{RSR} \leq 0.70$	$\pm 10 \leq \text{PBIAS} \leq \pm 25$
Unsatisfactory	$\text{NSE} < 0.50$	$\text{RSR} > 0.70$	$\text{PBIAS} > \pm 25$

4.2 Calibration Results

The best 1%ACE (100-year) calibration results at West Fork of the Trinity River flow are shown in Figure 4-1 to Figure 4-12 below.

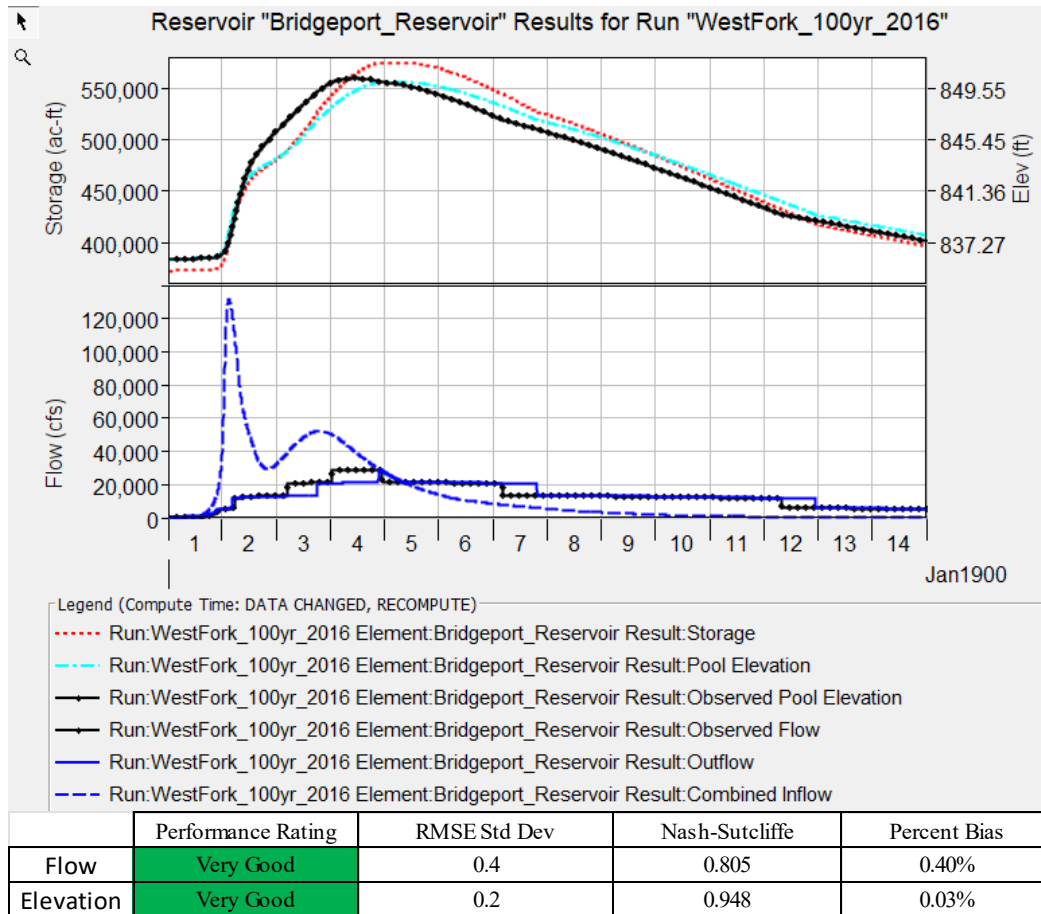


Figure 4-1 Calibrated hydrograph at Bridgeport Reservoir

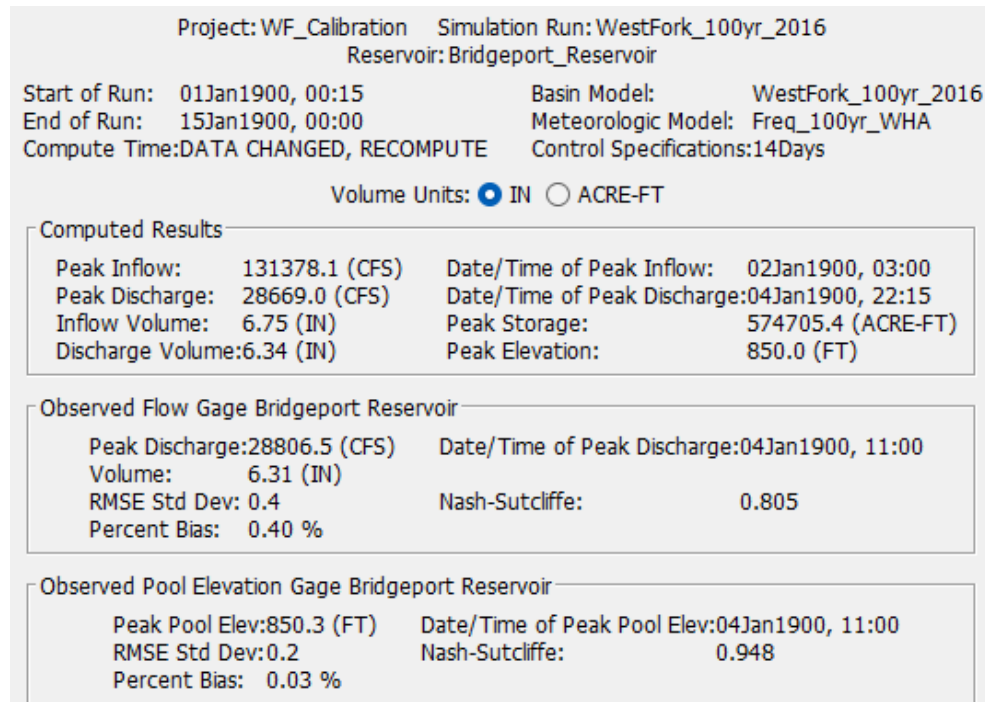


Figure 4-2 HMS results at Bridgeport Reservoir

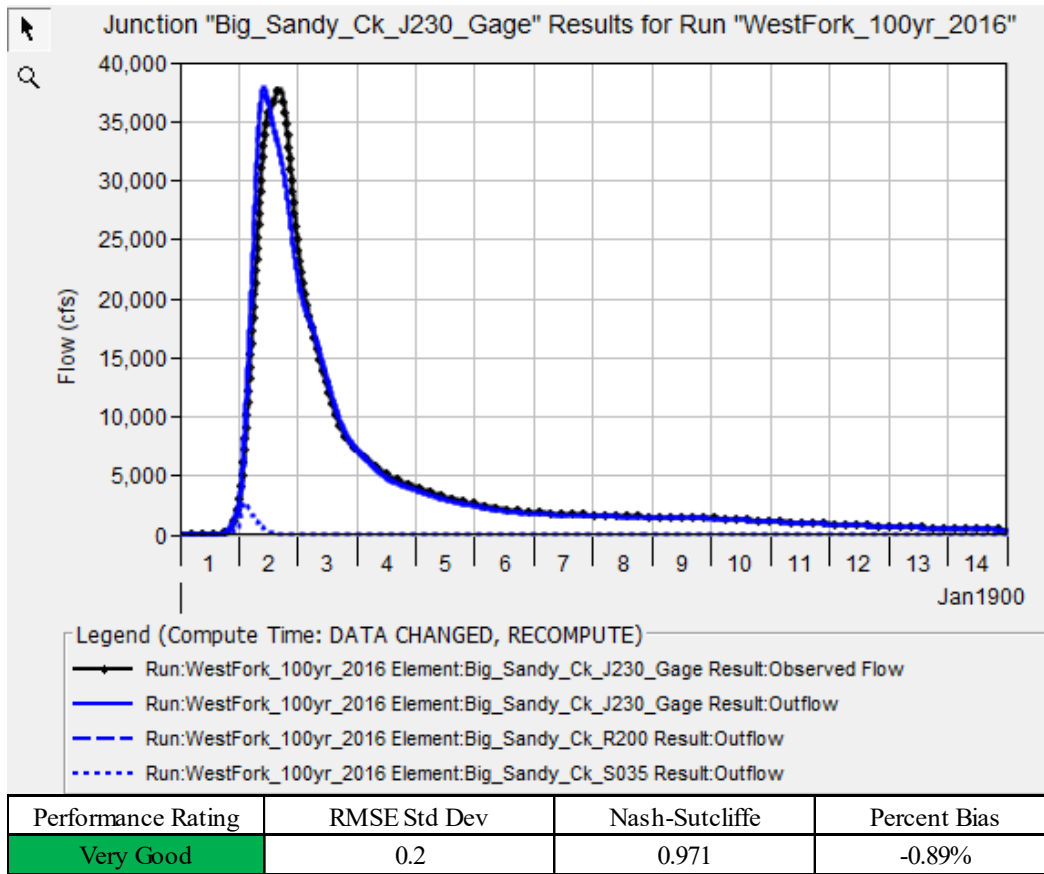


Figure 4-3 Calibrated hydrograph at Big_Sandy_Ck_J230_Gage

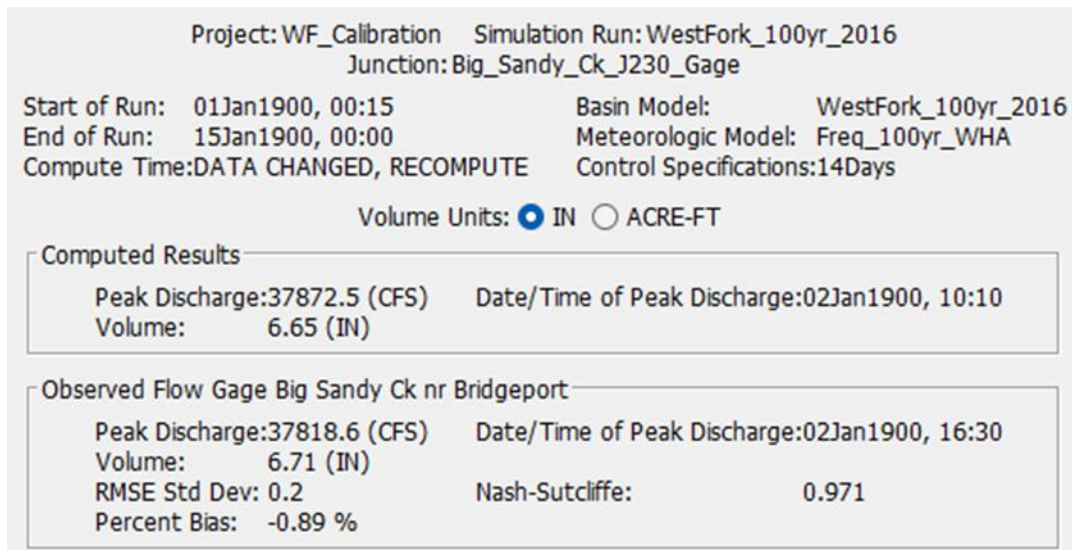


Figure 4-4 HMS results at Big_Sandy_Ck_J230_Gage

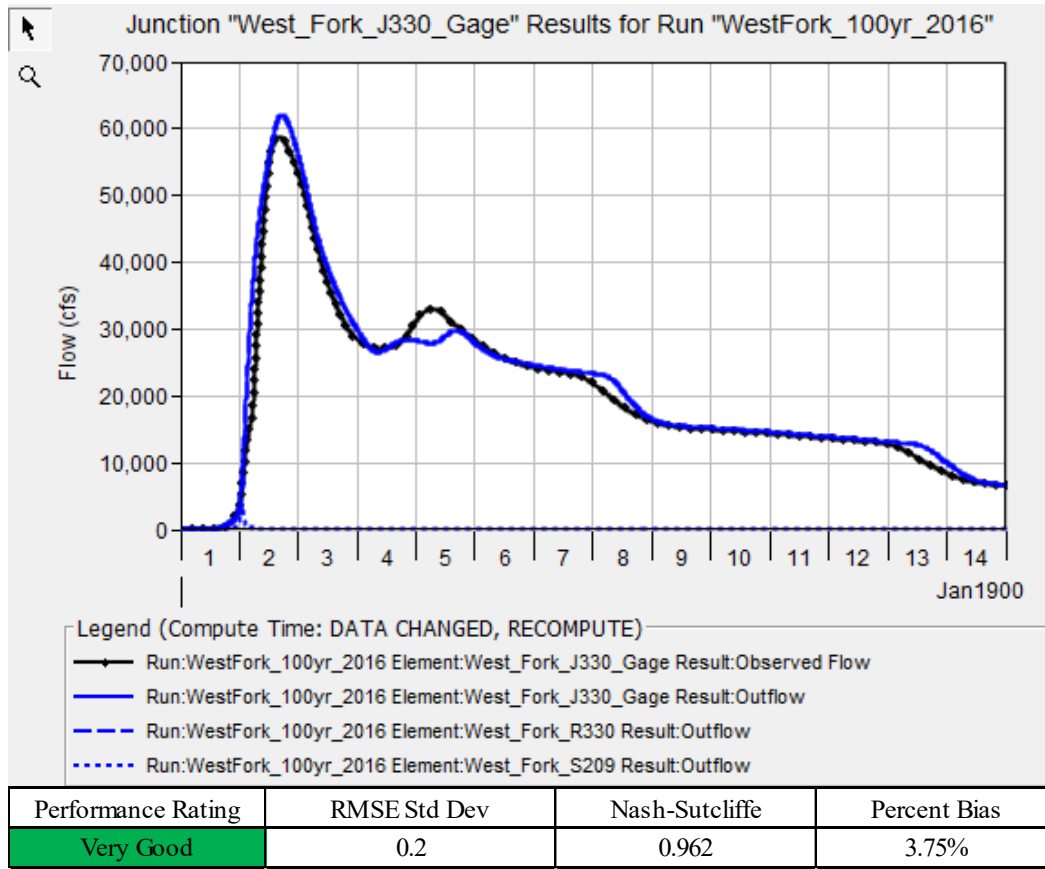


Figure 4-5 Calibrated hydrograph at West_Fork_J330_Gage

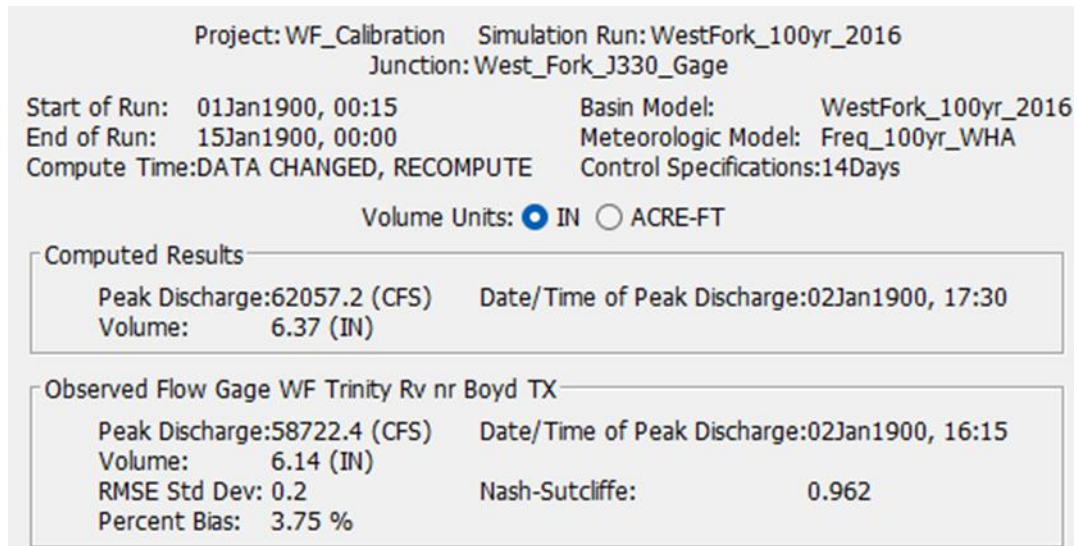


Figure 4-6 HMS results at West_Fork_J330_Gage

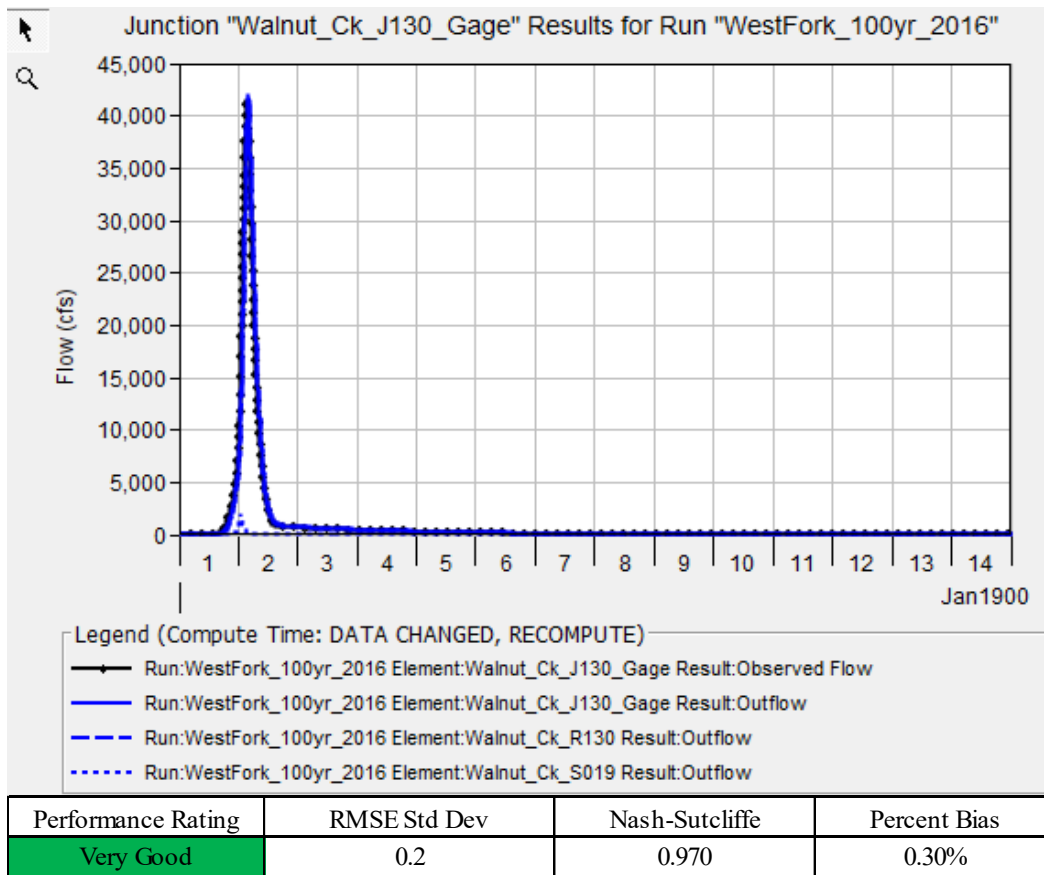


Figure 4-7 Calibrated hydrograph at Walnut_Ck_J130_Gage

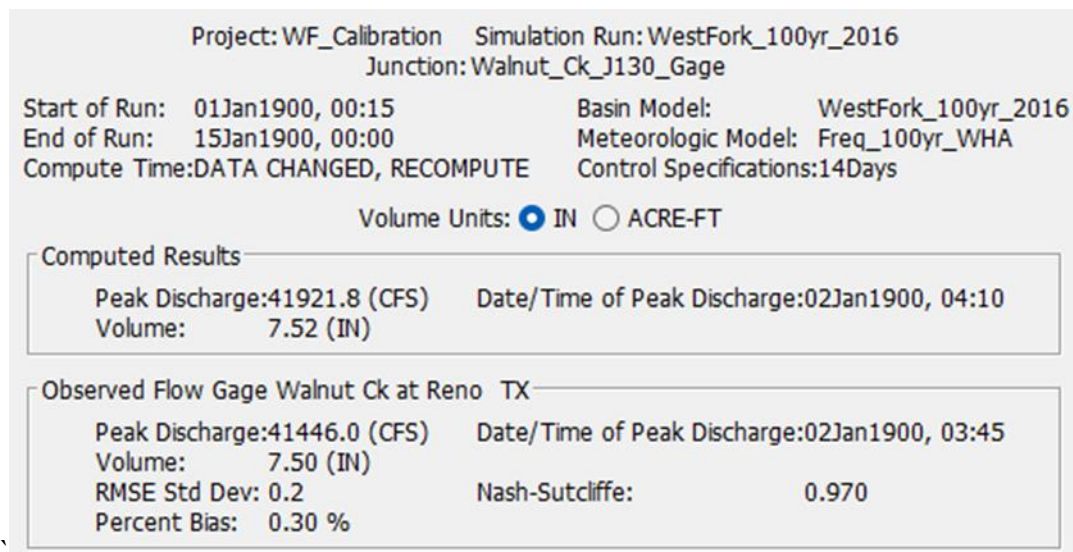


Figure 4-8 HMS results at Walnut_Ck_J130_Gage

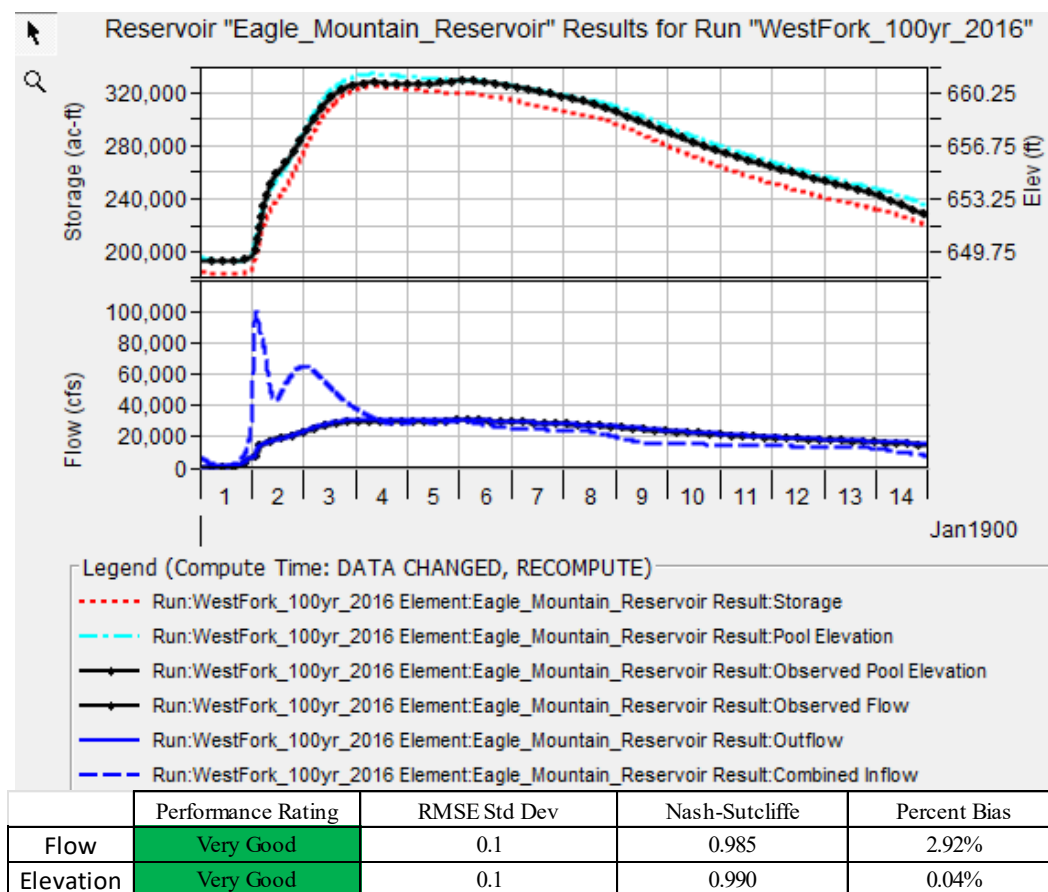


Figure 4-9 Calibrated hydrograph at Eagle_Mountain_Reservoir

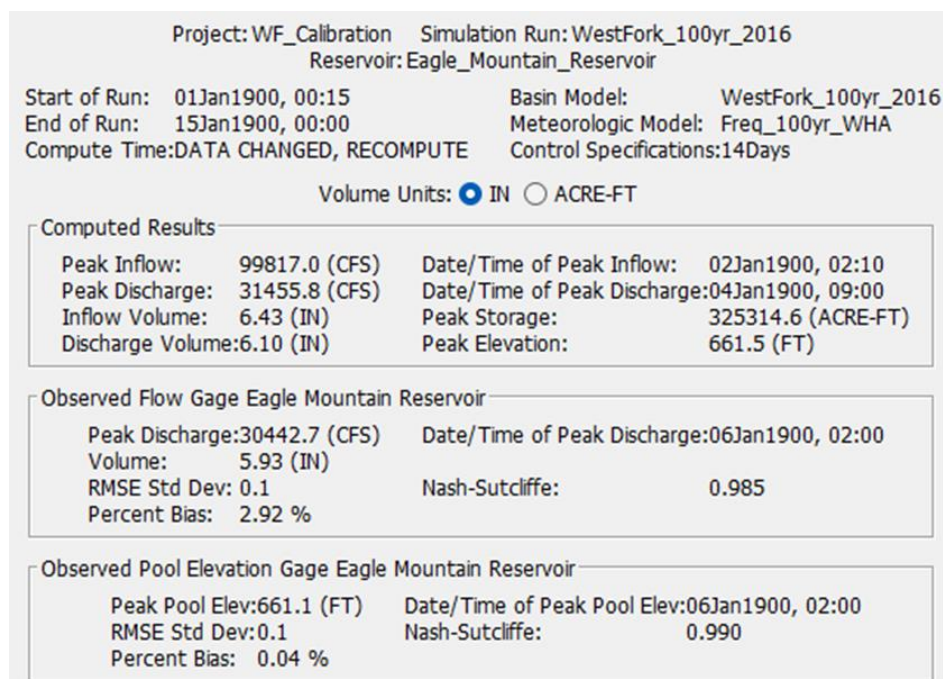


Figure 4-10 HMS results at Eagle_Mountain_Reservoir

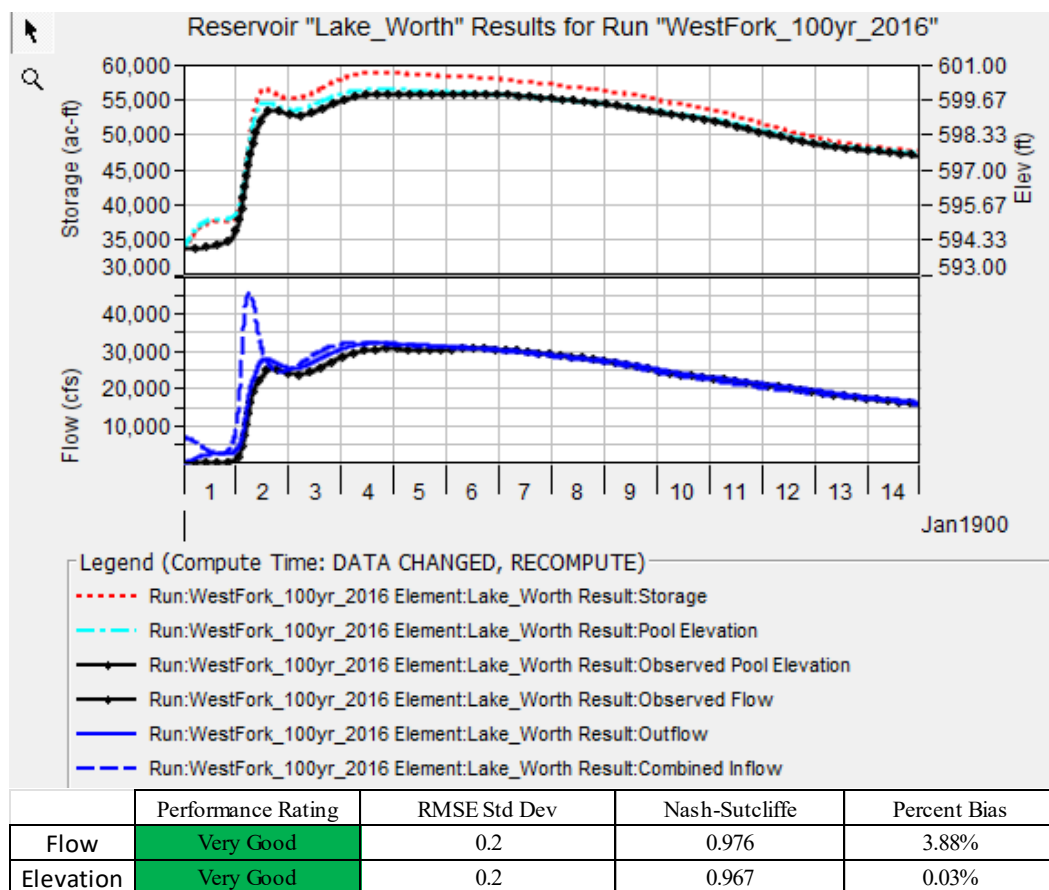


Figure 4-11 Calibrated hydrograph at Lake Worth Outlet

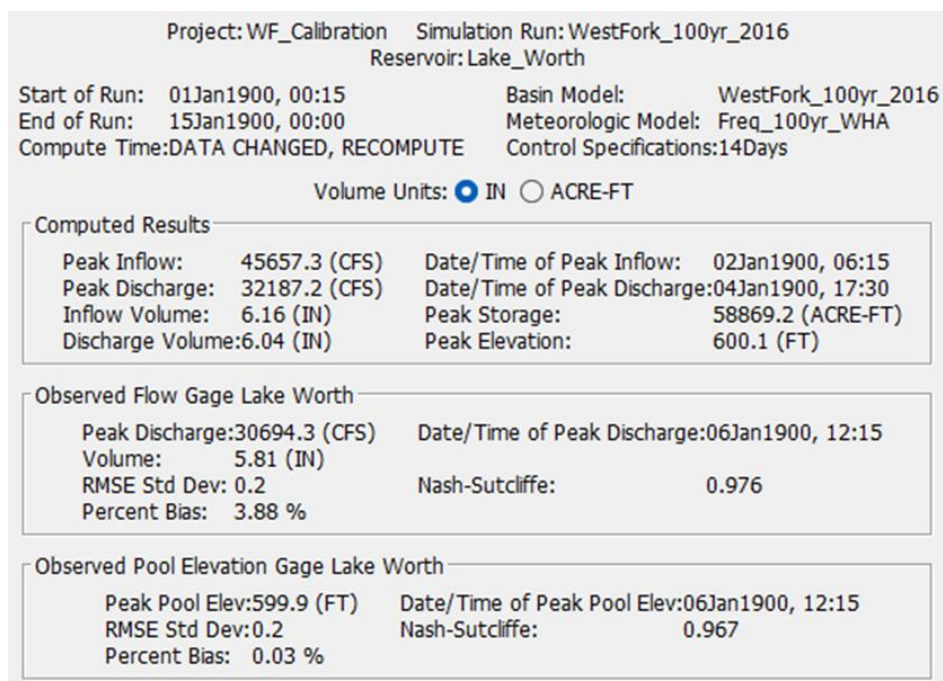


Figure 4-12 HMS results at Lake Worth Outlet

4.3 Calibrated HEC-HMS Parameters

After calculating initial model parameters, the model was calibrated. The model's parameters were then adjusted so that the final results of the detailed HEC-HMS model match the results of the original InFRM WHA HEC-HMS model as closely as possible. For this effort, the 100-yr uniform rain storm event from the InFRM model was used as the basis of comparison. Subbasin parameters were adjusted during calibration included the lag time, baseflow, loss rate and routing parameters.

The calibrated parameters that were adjusted can be seen in Tables 4.1 to Table 4.4.

Table 4-1. HEC-HMS Calibrated Loss Parameters

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
West Fork S010	1.05	0.09	0
West Fork S020	0.85	0.09	0
West Fork S030	0.86	0.09	0
West Fork S040	0.85	0.09	0
West Fork S050	0.85	0.09	0
West Fork S060	0.85	0.09	0
West Fork S070	0.86	0.09	0
West Fork S080	0.85	0.09	0
West Fork S090	0.86	0.09	0
West Fork S100	0.84	0.09	0
West Fork S120	2.41	0.09	1
West Fork S110	0.87	0.09	0
Big Cleveland S010	3.49	0.09	0
Big Cleveland S020	2.29	0.09	1
West Fork S130	0.84	0.09	0
Lost Ck S010	0.85	0.09	3
Lost Ck S020	0.84	0.09	0
West Fork S140	1.81	0.09	1
West Fork S150	0.85	0.09	0
West Fork S160	0.86	0.09	2
Beans Ck S010	0.89	0.09	1
Beans Ck S020	0.86	0.09	1
Big Ck S010	0.90	0.09	0
Big Ck S021	0.87	0.09	0

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Big Ck S022	0.87	0.09	0
Big Ck S023	0.87	0.09	0
Big Ck S024	0.87	0.09	8
Big Ck S031	0.88	0.10	1
Big Ck S032	0.88	0.10	0
Big Ck S033	0.88	0.10	1
Big Ck S034	0.88	0.10	1
Big Ck S035	0.88	0.10	0
Big Ck S036	0.88	0.10	0
Big Ck S037	0.88	0.10	9
Boons Ck S010	0.89	0.10	0
Boons Ck S020	0.89	0.10	3
Boons Ck S030	0.89	0.10	1
Boons Ck S040	0.89	0.10	1
Boons Ck S050	0.89	0.10	0
Boons Ck S060	0.89	0.10	0
Boons Ck S070	0.89	0.10	1
Boons Ck S080	0.89	0.10	1
Boons Ck S090	0.89	0.10	5
Willow Ck S010	0.88	0.10	1
Willow Ck S020	0.88	0.10	1
Willow Ck S030	0.88	0.10	0
Willow Ck S040	0.88	0.10	0
Willow Ck S050	0.88	0.10	1
Willow Ck S060	0.88	0.10	4
Willow Ck S070	0.88	0.10	1
Willow Ck S080	0.88	0.10	1
Willow Ck S090	0.88	0.10	3
Coal Bed Br S010	0.88	0.10	0
Boons Ck S100	0.88	0.10	29
Jasper Ck S010	0.86	0.09	1
Jasper Ck S020	0.86	0.09	4
Bridgeport S002	0.80	0.08	61
Bridgeport S001	0.80	0.08	20
West Fork S162	0.87	0.09	2
West Fork S161	0.87	0.09	3
West Fork S163	0.87	0.09	3

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
West Fork S164	0.87	0.09	1
West Fork S165	0.87	0.09	19
West Fork S166	0.87	0.09	3
Dry Ck S010	1.01	0.10	6
Dry Ck S020	1.01	0.10	2
Dry Ck S030	1.01	0.10	2
Dry Ck S040	1.01	0.10	1
Dry Ck S050	1.01	0.10	1
Dry Ck S060	1.01	0.10	1
Dry Ck S070	1.01	0.10	1
Dry Ck S080	1.01	0.10	0
Dry Ck S090	1.01	0.10	2
Dry Ck S100	1.01	0.10	4
Dry Ck S110	1.01	0.10	5
West Fork S171	0.90	0.10	1
West Fork S172	0.90	0.10	1
Amon G Carter S030	1.50	0.09	8
Amon G Carter S010	2.87	0.09	1
Amon G Carter S020	1.15	0.09	0
Big Sandy Ck S010	1.37	0.09	3
Big Sandy Ck S011	1.00	0.10	1
Big Sandy Ck S012	1.00	0.10	6
Big Sandy Ck S013	1.00	0.10	0
Big Sandy Ck S014	1.00	0.10	1
Big Sandy Ck S015	1.00	0.10	1
Big Sandy Ck S016	1.00	0.10	0
Big Sandy Ck S017	1.00	0.10	1
Pringle Ck S010	1.00	0.10	1
Pringle Ck S020	1.00	0.10	1
Pringle Ck S030	1.00	0.10	1
Pringle Ck S040	1.00	0.10	1
Pringle Ck S050	1.00	0.10	0
Pringle Ck S060	1.00	0.10	0
Big Sandy Ck S018	1.00	0.10	0
Brushy Ck S010	1.05	0.10	3
Brushy Ck S021	1.26	0.10	1
Brushy Ck S022	1.26	0.10	2

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Brushy Ck S023	1.26	0.10	0
Brushy Ck S024	1.26	0.10	1
Brushy Ck S025	1.26	0.10	1
Brushy Ck S026	1.26	0.10	2
Grapevine Ck S010	1.26	0.10	1
Grapevine Ck S020	1.26	0.10	1
Grapevine Ck S030	1.26	0.10	1
Grapevine Ck S040	1.26	0.10	1
Brushy Ck S027	1.26	0.10	2
Brushy Ck S028	1.26	0.10	3
Brushy Ck S029	1.26	0.10	2
Dry Hollow Br S010	1.74	0.10	0
Dry Hollow Br S020	1.74	0.10	1
Dry Hollow Br S030	1.74	0.10	1
Dry Hollow Br S040	1.74	0.10	1
Dry Hollow Br S050	1.74	0.10	1
Dry Hollow Br S060	1.74	0.10	1
Dry Hollow Br S070	1.74	0.10	7
Dry Hollow Br S080	1.74	0.10	3
Big Sandy Ck S021	1.26	0.10	1
Chicken Ck S010	1.26	0.10	1
Chicken Ck S020	1.26	0.10	1
Chicken Ck S030	1.26	0.10	1
Big Sandy Ck S022	1.26	0.10	1
Big Sandy Ck Trib S010	1.26	0.10	3
Big Sandy Ck Trib S020	1.26	0.10	22
Big Sandy Ck Trib S030	1.26	0.10	4
Big Sandy Ck S023	1.26	0.10	0
Big Sandy Ck S024	1.26	0.10	5
Big Sandy Ck S025	1.26	0.10	1
Mudhole Br S010	1.26	0.10	0
Mudhole Br S020	1.26	0.10	0
Big Sandy Ck S026	1.26	0.10	1
Big Sandy Ck S027	1.26	0.10	0
Big Sandy Ck S028	1.26	0.10	2
Briar Br S010	1.08	0.10	0
Briar Br S020	1.08	0.10	0

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Briar Br S030	1.08	0.10	2
Briar Br S040	1.08	0.10	6
Walkers Br S010	1.08	0.10	1
Walkers Br S020	1.08	0.10	1
Walkers Br S030	1.08	0.10	2
Walkers Br S040	1.08	0.10	7
Briar Br S050	1.08	0.10	1
Briar Br S060	1.08	0.10	0
Big Sandy Ck S031	1.08	0.10	1
Big Sandy Ck S032	1.08	0.10	3
Big Sandy Ck S033	1.08	0.10	1
Big Sandy Ck S034	1.08	0.10	1
Watson Br S010	1.08	0.10	1
Watson Br S020	1.08	0.10	1
Watson Br S030	1.08	0.10	4
Watson Br S040	1.08	0.10	1
Twin Pond CK S010	1.08	0.10	2
Twin Pond CK S020	1.08	0.10	1
Watson Br S050	1.08	0.10	0
Big Sandy Ck S035	1.08	0.10	1
Big Sandy Ck S041	1.06	0.10	2
Waggoner Br S010	1.06	0.10	11
Waggoner Br S020	1.06	0.10	7
Waggoner Br S030	1.06	0.10	1
Rosebud Br S010	1.06	0.10	1
Rosebud Br S020	1.06	0.10	1
Rosebud Br S030	1.06	0.10	2
Waggoner Br S040	1.06	0.10	1
Big Sandy Ck S042	1.06	0.10	1
Big Sandy Ck S043	1.06	0.10	1
West Fork S181	1.05	0.10	1
West Fork S182	1.05	0.10	0
West Fork S183	1.05	0.10	1
West Fork S184	1.05	0.10	1
Martin Br S010	1.05	0.10	22
Martin Br S020	1.05	0.10	2
Martin Br S030	1.05	0.10	1

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Martin Br S040	1.05	0.10	0
Martin Br S050	1.05	0.10	2
Martin Br S060	1.05	0.10	1
West Fork S185	1.05	0.10	0
West Fork S191	0.89	0.10	3
West Fork S192	0.89	0.10	1
Garrett Ck S001	2.29	0.10	0
Garrett Ck S002	2.29	0.10	0
Garrett Ck S003	2.29	0.10	0
Garrett Ck S004	2.29	0.10	1
Garrett Ck S005	2.29	0.10	1
Garrett Ck S006	2.29	0.10	1
Garrett Ck S007	2.29	0.10	1
Garrett Ck S008	2.29	0.10	0
Rush Ck S010	2.20	0.10	0
Rush Ck S020	2.20	0.10	2
Rush Ck S050	2.20	0.10	1
Rush Ck S030	2.20	0.10	1
Rush Ck S040	2.20	0.10	1
Rush Ck S060	2.20	0.10	1
Rush Ck S070	2.20	0.10	0
Garrett Ck S009	2.20	0.10	1
Garrett Ck S031	0.89	0.10	1
Garrett Ck S032	0.89	0.10	2
Garrett Ck S033	0.89	0.10	1
Salt Ck S001	3.62	0.10	0
Salt Ck S002	3.62	0.10	1
Salt Ck S003	3.62	0.10	1
Salt Ck S004	3.62	0.10	0
Salt Ck S005	3.62	0.10	1
Salt Ck S006	3.62	0.10	1
Salt Ck S007	3.62	0.10	0
Salt Ck S008	3.62	0.10	0
Salt Ck S009	3.62	0.10	1
Gonzollas Ck S010	3.62	0.10	0
Gonzollas Ck S020	3.62	0.10	1
Gonzollas Ck S030	3.62	0.10	1

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Salt Ck S011	2.14	0.10	1
Pecan Br S010	2.14	0.10	1
Salt Ck S012	2.14	0.10	2
Salt Ck S013	2.14	0.10	0
Salt Ck S014	2.14	0.10	1
Salt Ck S015	2.14	0.10	0
Salt Ck S016	2.14	0.10	1
Salt Ck S017	2.14	0.10	1
Salt Ck S018	2.14	0.10	1
Cottonwood Ck S010	2.14	0.10	1
Cottonwood Ck S020	2.14	0.10	1
Salt Ck S019	2.14	0.10	2
Salt Ck S021	0.89	0.10	1
Garrett Ck S034	0.89	0.10	1
Salt Ck S022	0.89	0.10	0
West Fork S201	0.90	0.10	1
Lola Ck S010	0.90	0.10	1
Lola Ck S020	0.90	0.10	1
West Fork S202	0.90	0.10	1
West Fork S203	0.90	0.10	4
West Fork S204	0.90	0.10	1
West Fork S205	0.90	0.10	1
West Fork S206	0.90	0.10	2
West Fork S207	0.90	0.10	2
West Fork S208	0.90	0.10	2
Walker Ck S010	0.90	0.10	1
Walker Ck S020	0.90	0.10	1
West Fork S209	0.90	0.10	3
West Fork S211	1.41	0.10	5
Deep Ck S10	1.41	0.10	2
Deep Ck S20	1.41	0.10	1
Deep Ck S30	1.41	0.10	1
West Fork S212	1.41	0.10	0
Blue Ck S10	1.41	0.10	3
Blue Ck S20	1.41	0.10	8
Blue Ck S25	1.41	0.10	3
Blue Ck S40	1.41	0.10	1

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Blue Ck S30	1.41	0.10	1
Blue Ck S50	1.41	0.10	6
Blue Ck S60	1.41	0.10	5
West Fork S213	1.41	0.10	5
West Fork S214	1.41	0.10	5
West Fork S215	1.41	0.10	1
Hog Branch S10	1.41	0.10	0
Hog Branch S20	1.41	0.10	1
Hog Brach S30	1.41	0.10	1
Hog Branch S40	1.41	0.10	2
West Fork S216	1.41	0.10	2
West Fork S217	1.41	0.10	1
Dry Fork S10	0.88	0.10	1
Dry Fork S20	0.88	0.10	1
Eagle Mountain S001	0.88	0.10	4
Oates Branch S10	0.88	0.10	9
Oates Brannch S30	0.88	0.10	2
Oates Branch S20	0.88	0.10	14
Oates Branch S40	0.88	0.10	2
Oates Branch S50	0.88	0.10	4
Oates Branch S60	0.88	0.10	2
Oates Branch S70	0.88	0.10	1
Eagle Mountain S002	0.88	0.10	12
Eagle Mountain S003	0.88	0.10	15
Derrett Ck S30	0.88	0.10	3
Derrett Ck S40	0.88	0.10	7
Derrett Ck S50	0.88	0.10	2
Derrett Ck S60	0.88	0.10	7
Eagle Mountain S004	0.88	0.10	45
Briar Ck S10	0.88	0.10	2
Briar Ck S20	0.88	0.10	6
Eagle Mountain S005	0.88	0.10	54
Eagle Mountain S006	0.88	0.10	43
Indian Ck S010	0.83	0.09	13
Indian Ck S020	0.83	0.09	6
Indian Ck S030	0.83	0.09	5
Moss Branch S010	0.83	0.09	5

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Moss Branch S020	0.83	0.09	2
Indian Ck S040	0.83	0.09	3
Indian Ck S050	0.83	0.09	26
Gilmore Branch S010	0.84	0.09	3
Eagle Mountain S031	0.84	0.09	38
Swift Branch S010	0.84	0.09	1
Walnut Ck S001	0.89	0.10	4
Walnut Ck S002	0.89	0.10	1
Walnut Ck S003	0.89	0.10	1
Walnut Ck S004	0.89	0.10	2
Goshen Ck S010	0.89	0.10	1
Goshen Ck S020	0.89	0.10	2
Walnut Ck S005	0.89	0.10	8
Walnut Ck S006	0.89	0.10	1
Walnut Ck S007	0.89	0.10	5
Walnut Ck S008	0.89	0.10	21
Browders Ck S010	0.89	0.10	2
Browders Ck S020	0.89	0.10	1
Browders Ck S030	0.89	0.10	10
Walnut Ck S009	0.89	0.10	2
Dry Br S010	0.89	0.10	1
Dry Br S020	0.89	0.10	3
Dry Br S030	0.89	0.10	2
Woody Ck S010	0.90	0.10	1
Woody Ck S020	0.90	0.10	2
Woody Ck S030	0.90	0.10	1
Walnut Ck S010	0.89	0.10	0
Walnut Ck S011	0.90	0.10	0
Walnut Ck S012	0.90	0.10	3
Walnut Ck S013	0.90	0.10	5
Walnut Ck S014	0.90	0.10	1
Walnut Ck Trib S010	0.90	0.10	1
Walnut Ck Trib S020	0.90	0.10	0
Walnut Ck Trib S030	0.90	0.10	1
Walnut Ck Trib S040	0.90	0.10	0
Walnut Ck Trib S050	0.90	0.10	1
Walnut Ck Trib S060	0.90	0.10	0

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Walnut Ck Trib S070	0.90	0.10	1
Walnut Ck Trib S080	0.90	0.10	1
Walnut Ck S015	0.90	0.10	0
Walnut Ck S016	0.90	0.10	2
Walnut Ck S017	0.90	0.10	1
Walnut Ck S018	0.90	0.10	1
Walnut Ck S019	0.90	0.10	1
Walnut Ck S021	0.90	0.10	10
Cottonwood Br S010	0.90	0.10	10
Cottonwood Br S020	0.90	0.10	3
Walnut Ck S022	0.90	0.10	1
Walnut Ck S023	0.90	0.10	1
Walnut Ck S024	0.90	0.10	4
Walnut Ck S025	0.90	0.10	7
Walnut Ck S026	0.90	0.10	5
Walnut Ck S027	0.90	0.10	3
Walnut Ck S028	0.90	0.10	7
Dosier Ck S010	0.84	0.09	6
Little Dosier Ck S010	0.84	0.09	7
Eagle Mountain S032	0.84	0.09	46
Ash Ck S010	0.88	0.10	1
Ash Ck S020	0.88	0.10	1
Ash Ck S030	0.88	0.10	2
Ash Ck S040	0.88	0.10	2
Ash Ck S050	0.88	0.10	6
Ash Ck S060	0.88	0.10	16
Ash Ck S070	0.88	0.10	6
Ash Ck S080	0.88	0.10	16
Ash Ck S090	0.88	0.10	5
Eagle Mountain S033	0.84	0.09	37
Lake Worth S010	0.87	0.09	19
Silver Ck S010	1.17	0.10	1
Silver Ck S020	1.17	0.10	1
Silver Ck S030	1.17	0.10	1
Silver Ck S040	1.17	0.10	1
Silver Ck S050	1.17	0.10	2
Silver Ck S060	1.17	0.10	3

Subbasin	Initial Loss (in)	Constant Loss (in/hr)	Percent Impervious (%)
Silver Ck S070	1.17	0.10	3
Silver Ck S080	1.17	0.10	1
Little Silver Ck S010	1.17	0.10	1
Little Silver Ck S020	1.17	0.10	3
Little Silver Ck S030	1.17	0.10	0
Little Silver Ck S040	1.17	0.10	2
Little Silver Ck S050	1.17	0.10	4
Silver Ck S090	1.17	0.10	3
Silver Ck S100	1.15	0.09	3
Silver Ck S110	1.15	0.09	4
Silver Ck S120	1.15	0.09	3
Silver Ck S130	1.15	0.09	4
Silver Ck S140	1.15	0.09	1
Mill Ck S010	1.15	0.09	5
Mill Ck S020	1.15	0.09	3
Mill Ck S030	1.15	0.09	4
Mill Ck S040	1.15	0.09	6
Silver Ck S150	1.15	0.09	2
Live Oak Ck S010	1.15	0.09	5
Live Oak Ck S020	1.15	0.09	7
Lake Worth S020	0.85	0.09	43

Table 4-2. HEC-HMS Calibrated Snyder's Transform Parameters

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
West Fork S010	5.50	0.72
West Fork S020	7.20	0.72
West Fork S030	8.00	0.72
West Fork S040	6.80	0.72
West Fork S050	5.80	0.72
West Fork S060	8.40	0.72
West Fork S070	6.70	0.72
West Fork S080	4.00	0.69
West Fork S090	6.80	0.70
West Fork S100	6.00	0.70
West Fork S120	7.80	0.65
West Fork S110	6.60	0.66
Big Cleveland S010	7.30	0.65
Big Cleveland S020	6.70	0.64
West Fork S130	3.60	0.63
Lost Ck S010	4.00	0.53
Lost Ck S020	3.01	0.71
West Fork S140	3.71	0.71
West Fork S150	4.20	0.71
West Fork S160	3.64	0.71
Beans Ck S010	3.43	0.71
Beans Ck S020	1.89	0.71
Big Ck S010	3.92	0.71
Big Ck S021	1.48	0.71
Big Ck S022	0.99	0.71
Big Ck S023	0.73	0.71
Big Ck S024	1.59	0.71
Big Ck S031	1.12	0.71
Big Ck S032	1.63	0.71
Big Ck S033	1.13	0.71
Big Ck S034	0.84	0.71
Big Ck S035	1.04	0.71
Big Ck S036	0.64	0.71
Big Ck S037	1.34	0.71
Boons Ck S010	1.83	0.70
Boons Ck S020	0.87	0.70
Boons Ck S030	0.72	0.70

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Boons Ck S040	1.20	0.70
Boons Ck S050	1.83	0.70
Boons Ck S060	1.55	0.70
Boons Ck S070	1.22	0.70
Boons Ck S080	1.34	0.70
Boons Ck S090	1.16	0.70
Willow Ck S010	0.74	0.70
Willow Ck S020	0.57	0.70
Willow Ck S030	0.95	0.70
Willow Ck S040	0.59	0.70
Willow Ck S050	1.51	0.70
Willow Ck S060	0.33	0.70
Willow Ck S070	0.65	0.70
Willow Ck S080	1.37	0.70
Willow Ck S090	1.55	0.70
Coal Bed Br S010	1.44	0.70
Boons Ck S100	0.54	0.70
Jasper Ck S010	3.54	0.71
Jasper Ck S020	1.05	0.71
Bridgeport S002	2.12	0.71
Bridgeport S001	1.48	0.71
West Fork S162	1.61	0.85
West Fork S161	1.45	0.85
West Fork S163	1.22	0.85
West Fork S164	0.71	0.85
West Fork S165	1.03	0.85
West Fork S166	1.47	0.85
Dry Ck S010	1.24	0.85
Dry Ck S020	0.36	0.85
Dry Ck S030	1.11	0.85
Dry Ck S040	0.56	0.85
Dry Ck S050	0.48	0.85
Dry Ck S060	1.03	0.85
Dry Ck S070	0.83	0.85
Dry Ck S080	0.46	0.85
Dry Ck S090	1.09	0.85
Dry Ck S100	0.84	0.85
Dry Ck S110	1.09	0.85

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
West Fork S171	0.61	0.85
West Fork S172	0.87	0.85
Amon G Carter S030	5.20	0.62
Amon G Carter S010	5.60	0.63
Amon G Carter S020	5.30	0.63
Big Sandy Ck S010	6.96	0.66
Big Sandy Ck S011	0.86	0.66
Big Sandy Ck S012	1.57	0.66
Big Sandy Ck S013	1.86	0.66
Big Sandy Ck S014	1.96	0.66
Big Sandy Ck S015	3.42	0.66
Big Sandy Ck S016	4.44	0.66
Big Sandy Ck S017	3.92	0.66
Pringle Ck S010	3.64	0.66
Pringle Ck S020	3.84	0.66
Pringle Ck S030	1.84	0.66
Pringle Ck S040	2.16	0.66
Pringle Ck S050	1.80	0.66
Pringle Ck S060	2.17	0.66
Big Sandy Ck S018	2.27	0.66
Brushy Ck S010	8.16	0.71
Brushy Ck S021	5.26	0.65
Brushy Ck S022	1.50	0.65
Brushy Ck S023	3.58	0.65
Brushy Ck S024	2.42	0.65
Brushy Ck S025	2.27	0.65
Brushy Ck S026	1.50	0.65
Grapevine Ck S010	2.81	0.65
Grapevine Ck S020	1.50	0.65
Grapevine Ck S030	1.69	0.65
Grapevine Ck S040	1.79	0.65
Brushy Ck S027	1.87	0.65
Brushy Ck S028	2.26	0.65
Brushy Ck S029	3.80	0.65
Dry Hollow Br S010	2.09	0.65
Dry Hollow Br S020	1.66	0.65
Dry Hollow Br S030	1.08	0.65
Dry Hollow Br S040	1.67	0.65

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Dry Hollow Br S050	1.33	0.65
Dry Hollow Br S060	2.06	0.65
Dry Hollow Br S070	1.66	0.65
Dry Hollow Br S080	2.35	0.65
Big Sandy Ck S021	1.36	0.65
Chicken Ck S010	1.93	0.65
Chicken Ck S020	1.56	0.65
Chicken Ck S030	2.45	0.65
Big Sandy Ck S022	1.70	0.65
Big Sandy Ck Trib S010	1.60	0.65
Big Sandy Ck Trib S020	1.36	0.65
Big Sandy Ck Trib S030	1.37	0.65
Big Sandy Ck S023	1.78	0.65
Big Sandy Ck S024	2.05	0.65
Big Sandy Ck S025	1.31	0.65
Mudhole Br S010	2.47	0.65
Mudhole Br S020	1.92	0.65
Big Sandy Ck S026	4.96	0.65
Big Sandy Ck S027	1.49	0.65
Big Sandy Ck S028	2.34	0.65
Briar Br S010	2.62	0.50
Briar Br S020	2.17	0.50
Briar Br S030	1.15	0.50
Briar Br S040	1.21	0.50
Walkers Br S010	2.58	0.50
Walkers Br S020	1.24	0.50
Walkers Br S030	1.14	0.50
Walkers Br S040	1.06	0.50
Briar Br S050	2.20	0.50
Briar Br S060	3.05	0.50
Big Sandy Ck S031	2.68	0.50
Big Sandy Ck S032	2.30	0.50
Big Sandy Ck S033	1.87	0.50
Big Sandy Ck S034	2.78	0.50
Watson Br S010	2.62	0.50
Watson Br S020	1.90	0.50
Watson Br S030	1.86	0.50
Watson Br S040	1.85	0.50

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Twin Pond CK S010	2.72	0.50
Twin Pond CK S020	2.42	0.50
Watson Br S050	1.55	0.50
Big Sandy Ck S035	2.36	0.50
Big Sandy Ck S041	0.99	0.85
Waggoner Br S010	0.88	0.85
Waggoner Br S020	0.86	0.85
Waggoner Br S030	0.92	0.85
Rosebud Br S010	0.46	0.85
Rosebud Br S020	0.36	0.85
Rosebud Br S030	0.45	0.85
Waggoner Br S040	1.09	0.85
Big Sandy Ck S042	0.89	0.85
Big Sandy Ck S043	1.24	0.85
West Fork S181	0.99	0.85
West Fork S182	0.86	0.85
West Fork S183	0.66	0.85
West Fork S184	1.37	0.85
Martin Br S010	0.95	0.85
Martin Br S020	0.62	0.85
Martin Br S030	0.76	0.85
Martin Br S040	0.41	0.85
Martin Br S050	0.88	0.85
Martin Br S060	1.18	0.85
West Fork S185	0.49	0.85
West Fork S191	1.20	0.85
West Fork S192	1.10	0.85
Garrett Ck S001	0.64	0.85
Garrett Ck S002	0.58	0.85
Garrett Ck S003	0.61	0.85
Garrett Ck S004	0.37	0.85
Garrett Ck S005	1.16	0.85
Garrett Ck S006	0.45	0.85
Garrett Ck S007	0.99	0.85
Garrett Ck S008	1.26	0.85
Rush Ck S010	1.20	0.85
Rush Ck S020	0.61	0.85
Rush Ck S050	0.42	0.85

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Rush Ck S030	0.94	0.85
Rush Ck S040	0.51	0.85
Rush Ck S060	0.57	0.85
Rush Ck S070	0.83	0.85
Garrett Ck S009	0.69	0.85
Garrett Ck S031	0.95	0.85
Garrett Ck S032	0.70	0.85
Garrett Ck S033	1.32	0.85
Salt Ck S001	0.68	0.85
Salt Ck S002	0.33	0.85
Salt Ck S003	0.82	0.85
Salt Ck S004	0.23	0.85
Salt Ck S005	0.97	0.85
Salt Ck S006	1.26	0.85
Salt Ck S007	0.48	0.85
Salt Ck S008	1.12	0.85
Salt Ck S009	1.20	0.85
Gonzollas Ck S010	0.95	0.85
Gonzollas Ck S020	1.04	0.85
Gonzollas Ck S030	0.59	0.85
Salt Ck S011	1.04	0.85
Pecan Br S010	1.48	0.85
Salt Ck S012	0.49	0.85
Salt Ck S013	1.03	0.85
Salt Ck S014	0.72	0.85
Salt Ck S015	0.58	0.85
Salt Ck S016	0.58	0.85
Salt Ck S017	0.69	0.85
Salt Ck S018	1.37	0.85
Cottonwood Ck S010	0.49	0.85
Cottonwood Ck S020	1.29	0.85
Salt Ck S019	1.27	0.85
Salt Ck S021	0.96	0.85
Garrett Ck S034	1.29	0.85
Salt Ck S022	1.54	0.85
West Fork S201	0.79	0.85
Lola Ck S010	0.97	0.85
Lola Ck S020	1.66	0.85

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
West Fork S202	0.54	0.85
West Fork S203	1.15	0.85
West Fork S204	1.00	0.85
West Fork S205	0.80	0.85
West Fork S206	0.63	0.85
West Fork S207	0.28	0.85
West Fork S208	0.66	0.85
Walker Ck S010	0.84	0.85
Walker Ck S020	0.66	0.85
West Fork S209	0.87	0.85
West Fork S211	1.75	0.71
Deep Ck S10	1.17	0.71
Deep Ck S20	1.46	0.71
Deep Ck S30	1.19	0.71
West Fork S212	1.00	0.71
Blue Ck S10	1.76	0.71
Blue Ck S20	1.32	0.71
Blue Ck S25	0.97	0.71
Blue Ck S40	1.09	0.71
Blue Ck S30	1.85	0.71
Blue Ck S50	0.46	0.71
Blue Ck S60	1.34	0.71
West Fork S213	0.95	0.71
West Fork S214	1.88	0.71
West Fork S215	1.35	0.71
Hog Branch S10	0.77	0.71
Hog Branch S20	1.18	0.71
Hog Brach S30	1.41	0.71
Hog Branch S40	0.43	0.71
West Fork S216	1.17	0.71
West Fork S217	0.70	0.71
Dry Fork S10	0.69	0.72
Dry Fork S20	0.82	0.72
Eagle Mountain S001	2.57	0.72
Oates Branch S10	1.15	0.72
Oates Brannch S30	1.41	0.72
Oates Branch S20	0.60	0.72
Oates Branch S40	1.05	0.72

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Oates Branch S50	0.86	0.72
Oates Branch S60	1.68	0.72
Oates Branch S70	0.79	0.72
Eagle Mountain S002	1.79	0.72
Eagle Mountain S003	1.30	0.72
Derrett Ck S30	1.50	0.72
Derrett Ck S40	0.35	0.72
Derrett Ck S50	0.88	0.72
Derrett Ck S60	1.03	0.72
Eagle Mountain S004	1.21	0.72
Briar Ck S10	1.30	0.72
Briar Ck S20	1.23	0.72
Eagle Mountain S005	0.57	0.72
Eagle Mountain S006	0.73	0.72
Indian Ck S010	1.71	0.72
Indian Ck S020	1.63	0.72
Indian Ck S030	1.42	0.72
Moss Branch S010	1.66	0.72
Moss Branch S020	1.02	0.72
Indian Ck S040	1.57	0.72
Indian Ck S050	1.61	0.72
Gilmore Branch S010	1.30	0.71
Eagle Mountain S031	0.83	0.71
Swift Branch S010	0.65	0.71
Walnut Ck S001	0.81	0.65
Walnut Ck S002	0.65	0.65
Walnut Ck S003	1.06	0.65
Walnut Ck S004	1.19	0.65
Goshen Ck S010	1.21	0.65
Goshen Ck S020	0.92	0.65
Walnut Ck S005	1.13	0.65
Walnut Ck S006	1.22	0.65
Walnut Ck S007	0.46	0.65
Walnut Ck S008	1.08	0.65
Browders Ck S010	0.64	0.65
Browders Ck S020	1.56	0.65
Browders Ck S030	0.81	0.65
Walnut Ck S009	1.30	0.65

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Dry Br S010	1.19	0.65
Dry Br S020	1.38	0.65
Dry Br S030	0.91	0.65
Woody Ck S010	1.20	0.65
Woody Ck S020	1.70	0.65
Woody Ck S030	0.88	0.65
Walnut Ck S010	0.41	0.65
Walnut Ck S011	0.50	0.65
Walnut Ck S012	1.28	0.65
Walnut Ck S013	0.85	0.65
Walnut Ck S014	0.71	0.65
Walnut Ck Trib S010	0.98	0.65
Walnut Ck Trib S020	0.49	0.65
Walnut Ck Trib S030	1.13	0.65
Walnut Ck Trib S040	0.58	0.65
Walnut Ck Trib S050	0.70	0.65
Walnut Ck Trib S060	1.05	0.65
Walnut Ck Trib S070	0.47	0.65
Walnut Ck Trib S080	1.12	0.65
Walnut Ck S015	0.28	0.65
Walnut Ck S016	1.23	0.65
Walnut Ck S017	0.98	0.65
Walnut Ck S018	1.04	0.65
Walnut Ck S019	0.75	0.65
Walnut Ck S021	0.38	0.72
Cottonwood Br S010	0.64	0.72
Cottonwood Br S020	1.28	0.72
Walnut Ck S022	0.75	0.72
Walnut Ck S023	0.94	0.72
Walnut Ck S024	0.59	0.72
Walnut Ck S025	1.25	0.72
Walnut Ck S026	1.26	0.72
Walnut Ck S027	0.95	0.72
Walnut Ck S028	0.79	0.72
Dosier Ck S010	1.17	0.71
Little Dosier Ck S010	0.99	0.71
Eagle Mountain S032	2.36	0.71
Ash Ck S010	0.85	0.72

Subbasin	Lag Time (TL) (hr)	Peaking Coeff
Ash Ck S020	0.97	0.72
Ash Ck S030	1.32	0.72
Ash Ck S040	1.04	0.72
Ash Ck S050	1.64	0.72
Ash Ck S060	0.99	0.72
Ash Ck S070	0.90	0.72
Ash Ck S080	0.67	0.72
Ash Ck S090	0.70	0.72
Eagle Mountain S033	1.07	0.71
Lake Worth S010	5.85	0.59
Silver Ck S010	2.21	0.59
Silver Ck S020	2.80	0.59
Silver Ck S030	3.03	0.59
Silver Ck S040	1.96	0.59
Silver Ck S050	2.70	0.59
Silver Ck S060	1.81	0.59
Silver Ck S070	2.07	0.59
Silver Ck S080	1.01	0.59
Little Silver Ck S010	1.89	0.59
Little Silver Ck S020	2.34	0.59
Little Silver Ck S030	2.46	0.59
Little Silver Ck S040	1.82	0.59
Little Silver Ck S050	1.79	0.59
Silver Ck S090	2.51	0.59
Silver Ck S100	2.41	0.59
Silver Ck S110	3.07	0.59
Silver Ck S120	1.89	0.59
Silver Ck S130	1.95	0.59
Silver Ck S140	1.87	0.59
Mill Ck S010	2.11	0.59
Mill Ck S020	1.35	0.59
Mill Ck S030	2.18	0.59
Mill Ck S040	1.92	0.59
Silver Ck S150	1.86	0.59
Live Oak Ck S010	2.67	0.59
Live Oak Ck S020	2.04	0.59
Lake Worth S020	4.29	0.59

Table 4-3. HEC-HMS Calibrated Baseflow Parameters

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
West Fork S010	8.79	0.75	0.01
West Fork S020	9.28	0.74	0.01
West Fork S030	8.78	0.74	0.01
West Fork S040	9.29	0.72	0.01
West Fork S050	8.19	0.71	0.01
West Fork S060	9.44	0.70	0.01
West Fork S070	8.52	0.72	0.01
West Fork S080	8.42	0.67	0.02
West Fork S090	8.24	0.70	0.01
West Fork S100	7.68	0.66	0.02
West Fork S120	6.84	0.64	0.01
West Fork S110	7.55	0.61	0.01
Big Cleveland S010	6.88	0.64	0.02
Big Cleveland S020	5.34	0.61	0.02
West Fork S130	6.97	0.60	0.02
Lost Ck S010	6.92	0.76	0.04
Lost Ck S020	6.63	0.65	0.03
West Fork S140	0.00	0.65	0.03
West Fork S150	0.00	0.65	0.03
West Fork S160	0.00	0.65	0.04
Beans Ck S010	0.00	0.65	0.04
Beans Ck S020	0.00	0.65	0.05
Big Ck S010	0.00	0.65	0.04
Big Ck S021	0.00	0.65	0.04
Big Ck S022	0.00	0.65	0.04
Big Ck S023	0.00	0.65	0.04
Big Ck S024	0.00	0.65	0.04
Big Ck S031	0.00	0.65	0.04
Big Ck S032	0.00	0.65	0.04
Big Ck S033	0.00	0.65	0.04
Big Ck S034	0.00	0.65	0.04
Big Ck S035	0.00	0.65	0.04
Big Ck S036	0.00	0.65	0.04
Big Ck S037	0.00	0.65	0.04
Boons Ck S010	0.00	0.65	0.04
Boons Ck S020	0.00	0.65	0.04

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Boons Ck S030	0.00	0.65	0.04
Boons Ck S040	0.00	0.65	0.04
Boons Ck S050	0.00	0.65	0.04
Boons Ck S060	0.00	0.65	0.04
Boons Ck S070	0.00	0.65	0.04
Boons Ck S080	0.00	0.65	0.04
Boons Ck S090	0.00	0.65	0.04
Willow Ck S010	0.00	0.65	0.04
Willow Ck S020	0.00	0.65	0.04
Willow Ck S030	0.00	0.65	0.04
Willow Ck S040	0.00	0.65	0.04
Willow Ck S050	0.00	0.65	0.04
Willow Ck S060	0.00	0.65	0.04
Willow Ck S070	0.00	0.65	0.04
Willow Ck S080	0.00	0.65	0.04
Willow Ck S090	0.00	0.65	0.04
Coal Bed Br S010	0.00	0.65	0.04
Boons Ck S100	0.00	0.65	0.04
Jasper Ck S010	0.00	0.65	0.04
Jasper Ck S020	0.00	0.65	0.04
Bridgeport S002	0.00	0.65	0.04
Bridgeport S001	0.00	0.65	0.04
West Fork S162	2.00	0.70	0.02
West Fork S161	2.00	0.70	0.02
West Fork S163	2.00	0.70	0.02
West Fork S164	2.00	0.70	0.02
West Fork S165	2.00	0.70	0.02
West Fork S166	2.00	0.70	0.02
Dry Ck S010	1.02	0.70	0.01
Dry Ck S020	1.02	0.70	0.01
Dry Ck S030	1.02	0.70	0.01
Dry Ck S040	1.02	0.70	0.01
Dry Ck S050	1.02	0.70	0.01
Dry Ck S060	1.02	0.70	0.01
Dry Ck S070	1.02	0.70	0.01
Dry Ck S080	1.02	0.70	0.01
Dry Ck S090	1.02	0.70	0.01
Dry Ck S100	1.02	0.70	0.01

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Dry Ck S110	1.02	0.70	0.01
West Fork S171	0.00	0.70	0.02
West Fork S172	0.00	0.70	0.02
Amon G Carter S030	0.00	0.74	0.05
Amon G Carter S010	0.00	0.73	0.05
Amon G Carter S020	0.00	0.74	0.05
Big Sandy Ck S010	0.00	0.66	0.02
Big Sandy Ck S011	0.00	0.63	0.02
Big Sandy Ck S012	0.00	0.63	0.02
Big Sandy Ck S013	0.00	0.63	0.02
Big Sandy Ck S014	0.00	0.63	0.02
Big Sandy Ck S015	0.00	0.63	0.02
Big Sandy Ck S016	0.00	0.63	0.02
Big Sandy Ck S017	0.00	0.63	0.02
Pringle Ck S010	0.00	0.63	0.02
Pringle Ck S020	0.00	0.63	0.02
Pringle Ck S030	0.00	0.63	0.02
Pringle Ck S040	0.00	0.63	0.02
Pringle Ck S050	0.00	0.63	0.02
Pringle Ck S060	0.00	0.63	0.02
Big Sandy Ck S018	0.00	0.63	0.02
Brushy Ck S010	0.00	0.65	0.02
Brushy Ck S021	0.00	0.63	0.02
Brushy Ck S022	0.00	0.63	0.02
Brushy Ck S023	0.00	0.63	0.02
Brushy Ck S024	0.00	0.63	0.02
Brushy Ck S025	0.00	0.63	0.02
Brushy Ck S026	0.00	0.63	0.02
Grapevine Ck S010	0.00	0.63	0.02
Grapevine Ck S020	0.00	0.63	0.02
Grapevine Ck S030	0.00	0.63	0.02
Grapevine Ck S040	0.00	0.63	0.02
Brushy Ck S027	0.00	0.63	0.02
Brushy Ck S028	0.00	0.63	0.02
Brushy Ck S029	0.00	0.63	0.02
Dry Hollow Br S010	0.00	0.64	0.02
Dry Hollow Br S020	0.00	0.64	0.02
Dry Hollow Br S030	0.00	0.64	0.02

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Dry Hollow Br S040	0.00	0.64	0.02
Dry Hollow Br S050	0.00	0.64	0.02
Dry Hollow Br S060	0.00	0.64	0.02
Dry Hollow Br S070	0.00	0.64	0.02
Dry Hollow Br S080	0.00	0.64	0.02
Big Sandy Ck S021	0.00	0.64	0.02
Chicken Ck S010	0.00	0.64	0.02
Chicken Ck S020	0.00	0.64	0.02
Chicken Ck S030	0.00	0.64	0.02
Big Sandy Ck S022	0.00	0.64	0.02
Big Sandy Ck Trib S010	0.00	0.64	0.02
Big Sandy Ck Trib S020	0.00	0.64	0.02
Big Sandy Ck Trib S030	0.00	0.64	0.02
Big Sandy Ck S023	0.00	0.64	0.02
Big Sandy Ck S024	0.00	0.64	0.02
Big Sandy Ck S025	0.00	0.64	0.02
Mudhole Br S010	0.00	0.64	0.02
Mudhole Br S020	0.00	0.64	0.02
Big Sandy Ck S026	0.00	0.64	0.02
Big Sandy Ck S027	0.00	0.64	0.02
Big Sandy Ck S028	0.00	0.64	0.02
Briar Br S010	0.00	0.67	0.02
Briar Br S020	0.00	0.67	0.02
Briar Br S030	0.00	0.67	0.02
Briar Br S040	0.00	0.67	0.02
Walkers Br S010	0.00	0.67	0.02
Walkers Br S020	0.00	0.67	0.02
Walkers Br S030	0.00	0.67	0.02
Walkers Br S040	0.00	0.67	0.02
Briar Br S050	0.00	0.67	0.02
Briar Br S060	0.00	0.67	0.02
Big Sandy Ck S031	0.00	0.67	0.02
Big Sandy Ck S032	0.00	0.67	0.02
Big Sandy Ck S033	0.00	0.67	0.02
Big Sandy Ck S034	0.00	0.67	0.02
Watson Br S010	0.00	0.67	0.02
Watson Br S020	0.00	0.67	0.02
Watson Br S030	0.00	0.67	0.02

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Watson Br S040	0.00	0.67	0.02
Twin Pond CK S010	0.00	0.67	0.02
Twin Pond CK S020	0.00	0.67	0.02
Watson Br S050	0.00	0.67	0.02
Big Sandy Ck S035	0.00	0.67	0.02
Big Sandy Ck S041	0.76	0.70	0.01
Waggoner Br S010	0.76	0.70	0.01
Waggoner Br S020	0.76	0.70	0.01
Waggoner Br S030	0.76	0.70	0.01
Rosebud Br S010	0.76	0.70	0.01
Rosebud Br S020	0.76	0.70	0.01
Rosebud Br S030	0.76	0.70	0.01
Waggoner Br S040	0.76	0.70	0.01
Big Sandy Ck S042	0.76	0.70	0.01
Big Sandy Ck S043	0.76	0.70	0.01
West Fork S181	0.65	0.70	0.01
West Fork S182	0.65	0.70	0.01
West Fork S183	0.65	0.70	0.01
West Fork S184	0.65	0.70	0.01
Martin Br S010	0.65	0.70	0.01
Martin Br S020	0.65	0.70	0.01
Martin Br S030	0.65	0.70	0.01
Martin Br S040	0.65	0.70	0.01
Martin Br S050	0.65	0.70	0.01
Martin Br S060	0.65	0.70	0.01
West Fork S185	0.65	0.70	0.01
West Fork S191	0.00	0.70	0.01
West Fork S192	0.00	0.70	0.01
Garrett Ck S001	0.57	0.70	0.01
Garrett Ck S002	0.57	0.70	0.01
Garrett Ck S003	0.57	0.70	0.01
Garrett Ck S004	0.57	0.70	0.01
Garrett Ck S005	0.57	0.70	0.01
Garrett Ck S006	0.57	0.70	0.01
Garrett Ck S007	0.57	0.70	0.01
Garrett Ck S008	0.57	0.70	0.01
Rush Ck S010	0.52	0.70	0.02
Rush Ck S020	0.52	0.70	0.02

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Rush Ck S050	0.52	0.70	0.02
Rush Ck S030	0.52	0.70	0.02
Rush Ck S040	0.52	0.70	0.02
Rush Ck S060	0.52	0.70	0.02
Rush Ck S070	0.52	0.70	0.02
Garrett Ck S009	0.52	0.70	0.02
Garrett Ck S031	0.00	0.70	0.01
Garrett Ck S032	0.00	0.70	0.01
Garrett Ck S033	0.00	0.70	0.01
Salt Ck S001	1.02	0.70	0.02
Salt Ck S002	1.02	0.70	0.02
Salt Ck S003	1.02	0.70	0.02
Salt Ck S004	1.02	0.70	0.02
Salt Ck S005	1.02	0.70	0.02
Salt Ck S006	1.02	0.70	0.02
Salt Ck S007	1.02	0.70	0.02
Salt Ck S008	1.02	0.70	0.02
Salt Ck S009	1.02	0.70	0.02
Gonzollas Ck S010	1.02	0.70	0.02
Gonzollas Ck S020	1.02	0.70	0.02
Gonzollas Ck S030	1.02	0.70	0.02
Salt Ck S011	0.00	0.70	0.01
Pecan Br S010	0.00	0.70	0.01
Salt Ck S012	0.00	0.70	0.01
Salt Ck S013	0.00	0.70	0.01
Salt Ck S014	0.00	0.70	0.01
Salt Ck S015	0.00	0.70	0.01
Salt Ck S016	0.00	0.70	0.01
Salt Ck S017	0.00	0.70	0.01
Salt Ck S018	0.00	0.70	0.01
Cottonwood Ck S010	0.00	0.70	0.01
Cottonwood Ck S020	0.00	0.70	0.01
Salt Ck S019	0.00	0.70	0.01
Salt Ck S021	0.00	0.70	0.01
Garrett Ck S034	0.00	0.70	0.01
Salt Ck S022	0.00	0.70	0.01
West Fork S201	0.00	0.70	0.01
Lola Ck S010	0.00	0.70	0.01

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Lola Ck S020	0.00	0.70	0.01
West Fork S202	0.00	0.70	0.01
West Fork S203	0.00	0.70	0.01
West Fork S204	0.00	0.70	0.01
West Fork S205	0.00	0.70	0.01
West Fork S206	0.00	0.70	0.01
West Fork S207	0.00	0.70	0.01
West Fork S208	0.00	0.70	0.01
Walker Ck S010	0.00	0.70	0.01
Walker Ck S020	0.00	0.70	0.01
West Fork S209	0.00	0.70	0.01
West Fork S211	0.00	0.50	0.03
Deep Ck S10	0.00	0.50	0.03
Deep Ck S20	0.00	0.50	0.03
Deep Ck S30	0.00	0.50	0.03
West Fork S212	0.00	0.50	0.03
Blue Ck S10	0.00	0.50	0.03
Blue Ck S20	0.00	0.50	0.03
Blue Ck S25	0.00	0.50	0.03
Blue Ck S40	0.00	0.50	0.03
Blue Ck S30	0.00	0.50	0.03
Blue Ck S50	0.00	0.50	0.03
Blue Ck S60	0.00	0.50	0.03
West Fork S213	0.00	0.50	0.03
West Fork S214	0.00	0.50	0.03
West Fork S215	0.00	0.50	0.03
Hog Branch S10	0.00	0.50	0.03
Hog Branch S20	0.00	0.50	0.03
Hog Brach S30	0.00	0.50	0.03
Hog Branch S40	0.00	0.50	0.03
West Fork S216	0.00	0.50	0.03
West Fork S217	0.00	0.50	0.03
Dry Fork S10	0.00	0.50	0.03
Dry Fork S20	0.00	0.50	0.03
Eagle Mountain S001	0.00	0.50	0.03
Oates Branch S10	0.00	0.50	0.03
Oates Brannch S30	0.00	0.50	0.03
Oates Branch S20	0.00	0.50	0.03

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Oates Branch S40	0.00	0.50	0.03
Oates Branch S50	0.00	0.50	0.03
Oates Branch S60	0.00	0.50	0.03
Oates Branch S70	0.00	0.50	0.03
Eagle Mountain S002	0.00	0.50	0.03
Eagle Mountain S003	0.00	0.50	0.03
Derrett Ck S30	0.00	0.50	0.03
Derrett Ck S40	0.00	0.50	0.03
Derrett Ck S50	0.00	0.50	0.03
Derrett Ck S60	0.00	0.50	0.03
Eagle Mountain S004	0.00	0.50	0.03
Briar Ck S10	0.00	0.50	0.03
Briar Ck S20	0.00	0.50	0.03
Eagle Mountain S005	0.00	0.50	0.03
Eagle Mountain S006	0.00	0.50	0.03
Indian Ck S010	0.00	0.50	0.03
Indian Ck S020	0.00	0.50	0.03
Indian Ck S030	0.00	0.50	0.03
Moss Branch S010	0.00	0.50	0.03
Moss Branch S020	0.00	0.50	0.03
Indian Ck S040	0.00	0.50	0.03
Indian Ck S050	0.00	0.50	0.03
Gilmore Branch S010	0.00	0.50	0.02
Eagle Mountain S031	0.00	0.50	0.02
Swift Branch S010	0.00	0.50	0.02
Walnut Ck S001	0.04	0.66	0.02
Walnut Ck S002	0.04	0.66	0.02
Walnut Ck S003	0.04	0.66	0.02
Walnut Ck S004	0.04	0.66	0.02
Goshen Ck S010	0.04	0.66	0.02
Goshen Ck S020	0.04	0.66	0.02
Walnut Ck S005	0.04	0.66	0.01
Walnut Ck S006	0.04	0.66	0.01
Walnut Ck S007	0.04	0.66	0.01
Walnut Ck S008	0.04	0.66	0.01
Browders Ck S010	0.04	0.66	0.01
Browders Ck S020	0.04	0.66	0.01
Browders Ck S030	0.04	0.66	0.01

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Walnut Ck S009	0.04	0.66	0.01
Dry Br S010	0.04	0.66	0.01
Dry Br S020	0.04	0.66	0.01
Dry Br S030	0.04	0.66	0.01
Woody Ck S010	0.02	0.66	0.01
Woody Ck S020	0.02	0.66	0.01
Woody Ck S030	0.02	0.66	0.01
Walnut Ck S010	0.04	0.66	0.01
Walnut Ck S011	0.02	0.66	0.01
Walnut Ck S012	0.02	0.66	0.01
Walnut Ck S013	0.02	0.66	0.01
Walnut Ck S014	0.02	0.66	0.01
Walnut Ck Trib S010	0.02	0.66	0.01
Walnut Ck Trib S020	0.02	0.66	0.01
Walnut Ck Trib S030	0.02	0.66	0.01
Walnut Ck Trib S040	0.02	0.66	0.01
Walnut Ck Trib S050	0.02	0.66	0.01
Walnut Ck Trib S060	0.02	0.66	0.01
Walnut Ck Trib S070	0.02	0.66	0.01
Walnut Ck Trib S080	0.02	0.66	0.01
Walnut Ck S015	0.02	0.66	0.01
Walnut Ck S016	0.02	0.66	0.01
Walnut Ck S017	0.02	0.66	0.01
Walnut Ck S018	0.02	0.66	0.01
Walnut Ck S019	0.02	0.66	0.01
Walnut Ck S021	0.00	0.50	0.03
Cottonwood Br S010	0.00	0.50	0.03
Cottonwood Br S020	0.00	0.50	0.03
Walnut Ck S022	0.00	0.50	0.03
Walnut Ck S023	0.00	0.50	0.03
Walnut Ck S024	0.00	0.50	0.03
Walnut Ck S025	0.00	0.50	0.03
Walnut Ck S026	0.00	0.50	0.03
Walnut Ck S027	0.00	0.50	0.03
Walnut Ck S028	0.00	0.50	0.03
Dosier Ck S010	0.00	0.50	0.02
Little Dosier Ck S010	0.00	0.50	0.02
Eagle Mountain S032	0.00	0.50	0.02

WF Subbasin	Initial Discharge (cfs)	Recession Constant	Ratio to Peak
Ash Ck S010	0.00	0.50	0.03
Ash Ck S020	0.00	0.50	0.03
Ash Ck S030	0.00	0.50	0.03
Ash Ck S040	0.00	0.50	0.03
Ash Ck S050	0.00	0.50	0.03
Ash Ck S060	0.00	0.50	0.03
Ash Ck S070	0.00	0.50	0.03
Ash Ck S080	0.00	0.50	0.03
Ash Ck S090	0.00	0.50	0.03
Eagle Mountain S033	0.00	0.50	0.02
Lake Worth S010	0.00	0.64	0.03
Silver Ck S010	0.00	0.65	0.03
Silver Ck S020	0.00	0.65	0.03
Silver Ck S030	0.00	0.65	0.03
Silver Ck S040	0.00	0.65	0.03
Silver Ck S050	0.00	0.65	0.03
Silver Ck S060	0.00	0.65	0.03
Silver Ck S070	0.00	0.65	0.03
Silver Ck S080	0.00	0.65	0.03
Little Silver Ck S010	0.00	0.65	0.03
Little Silver Ck S020	0.00	0.65	0.03
Little Silver Ck S030	0.00	0.65	0.03
Little Silver Ck S040	0.00	0.65	0.03
Little Silver Ck S050	0.00	0.65	0.03
Silver Ck S090	0.00	0.65	0.03
Silver Ck S100	0.00	0.66	0.04
Silver Ck S110	0.00	0.66	0.04
Silver Ck S120	0.00	0.66	0.04
Silver Ck S130	0.00	0.66	0.04
Silver Ck S140	0.00	0.66	0.04
Mill Ck S010	0.00	0.66	0.04
Mill Ck S020	0.00	0.66	0.04
Mill Ck S030	0.00	0.66	0.04
Mill Ck S040	0.00	0.66	0.04
Silver Ck S150	0.00	0.66	0.04
Live Oak Ck S010	0.00	0.66	0.04
Live Oak Ck S020	0.00	0.66	0.04
Lake Worth S020	0.00	0.65	0.04

Table 4-4. HEC-HMS Calibrated Routing Parameters

Reach Name	Subreach	Reach Name	Subreach
West Fork R010	4	Garrett Ck R030	2
West Fork R020	1	Garrett Ck R040	1
West Fork R030	2	Garrett Ck R050	1
West Fork R040	1	Garrett Ck R060	1
West Fork R050	2	Garrett Ck R070	1
West Fork R060	2	Rush Ck R010	2
West Fork R070	2	Rush Ck R020	1
Big Cleveland R010	3	Rush Ck R030	1
West Fork R080	1	Rush Ck R040	1
West Fork R090	1	Rush Ck R050	1
Lost Ck R010	5	Garrett Ck R080	1
West Fork R100	2	Garrett Ck R090	1
West Fork R110	4	Garrett Ck R100	1
Beans Ck R010	1	Garrett Ck R110	1
Big Ck R010	1	Garrett Ck R120	1
Big Ck R020	2	Salt Ck R010	1
Big Ck R030	2	Salt Ck R020	1
Big Ck R040	2	Salt Ck R030	2
Big Ck R050	1	Salt Ck R040	2
Big Ck R060	1	Salt Ck R050	2
Big Ck R070	1	Gonzollas Ck R010	2
Big Ck R080	1	Gonzollas Ck R020	2
Boons Ck R010	1	Salt Ck R060	1
Boons Ck R020	2	Salt Ck R070	1
Boons Ck R030	2	Salt Ck R080	2
Boons Ck R040	2	Salt Ck R090	1
Boons Ck R050	1	Salt Ck R100	3
Willow Ck R010	1	Salt Ck R110	1
Willow Ck R020	1	Cottonwood Ck R010	2
Willow Ck R030	1	Salt Ck R120	1
Willow Ck R040	1	Salt Ck R130	2
Willow Ck R050	2	Salt Ck R140	1
Boons Ck R060	1	West Fork R260	1
Coal Bed Br R010	1	Lola Ck R010	1
Jasper Ck R010	1	West Fork R270	1
West Fork R120	2	West Fork R280	2

Reach Name	Subreach	Reach Name	Subreach
West Fork R130	1	West Fork R290	1
West Fork R140	1	West Fork R300	1
West Fork R150	1	West Fork R310	1
West Fork R160	2	West Fork R320	1
Dry Ck R010	2	Walker Ck R010	1
Dry Ck R020	1	West Fork R330	1
Dry Ck R030	1	West Fork R340	1
Dry Ck R040	1	Deep Ck R10	2
Dry Ck R050	2	Deep Ck R20	1
Dry Ck R060	1	West Fork R350	1
Dry Ck R070	1	West Fork R360	1
Dry Ck R080	1	Blue Ck R10	1
Dry Ck R090	1	Blue Ck R20	1
West Fork R170	1	Blue Ck R30	1
West Fork R180	1	Blue Ck R40	1
West Fork R190	1	Blue Ck R50	1
Big Sandy Ck R010	4	West Fork R370	1
Big Sandy Ck R020	1	West Fork R380	2
Big Sandy Ck R030	1	West Fork R390	1
Big Sandy Ck R040	1	Hog Branch R10	1
Big Sandy Ck R050	1	Hog Branch R20	2
Big Sandy Ck R060	3	Hog Branch R30	1
Big Sandy Ck R070	2	West Fork R400	1
Pringle Ck R010	1	Dry Fork R10	1
Pringle Ck R020	1	West Fork R410	1
Pringle Ck R030	1	Oates Branch R10	1
Pringle Ck R040	1	Oates Branch R20	2
Big Sandy Ck R080	1	Oates Branch R30	1
Brushy Ck R010	2	Oates Branch R40	1
Brushy Ck R020	1	Derrett Ck R30	1
Brushy Ck R030	1	Derrett Ck R50	1
Brushy Ck R040	1	Derrett Ck R60	2
Brushy Ck R050	1	Derrett Ck R80	1
Grapevine Ck R010	1	Briar Ck R10	2
Grapevine Ck R020	1	Indian Ck R010	1
Grapevine Ck R030	1	Moss Branch R010	2
Brushy Ck R060	1	Indian Ck R020	1
Brushy Ck R070	1	Gilmore Branch R010	1

Reach Name	Subreach	Reach Name	Subreach
Brushy Ck R080	1	Walnut Ck R010	4
Dry Hollow Br R010	1	Walnut Ck R020	3
Dry Hollow Br R020	1	Goshen Ck R010	4
Dry Hollow Br R030	1	Walnut Ck R030	3
Dry Hollow Br R040	1	Walnut Ck R040	3
Dry Hollow Br R050	1	Walnut Ck R050	3
Dry Hollow Br R060	1	Browders Ck R010	3
Big Sandy Ck R090	1	Browders Ck R020	2
Chicken Ck R010	1	Walnut Ck R060	3
Chicken Ck R020	1	Dry Br R010	2
Big Sandy Ck R100	1	Dry Br R020	2
Big Sandy Ck Trib R010	2	Walnut Ck R070	3
Big Sandy Ck Trib R020	1	Woody Ck R010	3
Big Sandy Ck R110	1	Woody Ck R020	2
Big Sandy Ck R115	1	Walnut Ck R080	3
Big Sandy Ck R120	1	Walnut Ck R090	3
Mudhole Br R010	1	Walnut Ck R100	3
Big Sandy Ck R130	2	Walnut Ck Trib R010	2
Big Sandy Ck R140	1	Walnut Ck Trib R020	3
Big Sandy Ck R150	1	Walnut Ck Trib R030	2
Briar Br R010	1	Walnut Ck Trib R040	2
Briar Br R020	1	Walnut Ck Trib R050	2
Walkers Br R010	1	Walnut Ck R110	4
Walkers Br R020	1	Walnut Ck R120	4
Walkers Br R030	1	Walnut Ck R130	4
Briar Br R030	1	Walnut Ck R140	1
Briar Br R040	1	Cottonwood Br R010	2
Big Sandy Ck R160	1	Walnut Ck R150	1
Big Sandy Ck R170	1	Walnut Ck R160	1
Big Sandy Ck R180	1	Walnut Ck R170	1
Big Sandy Ck R190	1	Walnut Ck R180	2
Watson Br R010	1	Walnut Ck R190	1
Watson Br R020	1	Ash Ck R010	2
Watson Br R030	1	Ash Ck R020	1
Watson Br R040	1	Ash Ck R030	2
Twin Pond Ck R010	1	Ash Ck R040	1
Watson Br R050	1	Ash Ck R050	1
Big Sandy Ck R200	1	West Fork R500	2

Reach Name	Subreach	Reach Name	Subreach
Big Sandy Ck R210	1	Silver Ck R010	2
Waggoner Br R010	1	Silver Ck R020	1
Waggoner Br R020	2	Silver Ck R030	1
Rosebud Br R010	1	Silver Ck R040	2
Rosebud Br R020	1	Silver Ck R050	1
Waggoner Br R030	1	Little Silver Ck R010	2
Big Sandy Ck R220	1	Little Silver Ck R020	1
Big Sandy Ck R230	1	Little Silver Ck R030	2
West Fork R200	1	Silver Ck R060	1
West Fork R210	1	Silver Ck R070	1
West Fork R220	1	Silver Ck R080	1
West Fork R230	1	Silver Ck R090	2
Martin Br R010	2	Silver Ck R100	1
Martin Br R020	1	Mill Ck R010	2
Martin Br R030	1	Mill Ck R020	2
Martin Br R040	1	Mill Ck R030	1
West Fork R240	1	Silver Ck R110	1
West Fork R250	1	Silver Ck R120	1
Garrett Ck R010	2	Live Oak Ck R010	1
Garrett Ck R020	2		

5 HEC-HMS Model for TSI

The existing conditions (2016) basin model has been developed with the additional subbasins and calibrated to match the InFRM WHA HEC-HMS results at the West Fork of the Trinity River outlet. The additional basin models will be created representing the year 2020 (TSI existing conditions) and the year 2070 (TSI future conditions).

5.1 TSI 2020 Existing Conditions HEC-HMS Model

For the 2020 existing conditions basin model, all HMS model parameters will remain the same as were completed in section 4 except for the percent impervious and the initial losses. For the percent impervious, the 2020 impervious data provided by the NCTCOG was used to update the values in the HEC-HMS detailed model.

Since the drainage area of the West Fork Trinity River is much larger than any of the watersheds being studied for TSI's West Study Area, special consideration must be given for how to estimate flows along the mainstem of the West Fork Trinity River. The InFRM WHA for the

Trinity River utilized Elliptical Storms to calculate the final frequency flows on the West Fork Trinity River below Lake Bridgeport. The uniform rain flows were higher the elliptical storm flows. To mitigate the effects of using uniform rainfall on a large watershed, the timing of Bridgeport's outflow hydrograph was shifted 2 days later than the start of the uniform frequency storm.

Table 5-1. Existing Conditions Percent Imperviousness

Subbasin	2016 % Impervious	2020 % Impervious
West Fork S010	0	0
West Fork S020	0	0
West Fork S030	0	0
West Fork S040	0	0
West Fork S050	0	0
West Fork S060	0	0
West Fork S070	0	0
West Fork S080	0	0
West Fork S090	0	0
West Fork S100	0	0
West Fork S120	1	1
West Fork S110	0	0
Big Cleveland S010	0	0
Big Cleveland S020	1	1
West Fork S130	0	0
Lost Ck S010	3	4
Lost Ck S020	0	0
West Fork S140	1	1
West Fork S150	0	0
West Fork S160	2	4
Beans Ck S010	1	1
Beans Ck S020	1	2
Big Ck S010	0	0
Big Ck S021	0	1
Big Ck S022	0	2
Big Ck S023	0	2
Big Ck S024	8	11
Big Ck S031	1	2
Big Ck S032	0	2
Big Ck S033	1	2
Big Ck S034	1	2
Big Ck S035	0	2
Big Ck S036	0	1
Big Ck S037	9	10
Boons Ck S010	0	0
Boons Ck S020	3	7
Boons Ck S030	1	3

Subbasin	2016 % Impervious	2020 % Impervious
Boons Ck S040	1	1
Boons Ck S050	0	2
Boons Ck S060	0	2
Boons Ck S070	1	1
Boons Ck S080	1	1
Boons Ck S090	5	7
Willow Ck S010	1	2
Willow Ck S020	1	3
Willow Ck S030	0	2
Willow Ck S040	0	2
Willow Ck S050	1	3
Willow Ck S060	4	4
Willow Ck S070	1	2
Willow Ck S080	1	2
Willow Ck S090	3	4
Coal Bed Br S010	0	2
Boons Ck S100	29	30
Jasper Ck S010	1	1
Jasper Ck S020	4	7
Bridgeport S002	61	61
Bridgeport S001	20	22
West Fork S162	2	5
West Fork S161	3	3
West Fork S163	3	5
West Fork S164	1	2
West Fork S165	19	21
West Fork S166	3	7
Dry Ck S010	6	9
Dry Ck S020	2	21
Dry Ck S030	2	6
Dry Ck S040	1	12
Dry Ck S050	1	2
Dry Ck S060	1	2
Dry Ck S070	1	21
Dry Ck S080	0	8
Dry Ck S090	2	3
Dry Ck S100	4	5
Dry Ck S110	5	12

Subbasin	2016 % Impervious	2020 % Impervious
West Fork S171	1	3
West Fork S172	1	3
Amon G Carter S030	8	8
Amon G Carter S010	1	1
Amon G Carter S020	0	0
Big Sandy Ck S010	3	3
Big Sandy Ck S011	1	1
Big Sandy Ck S012	6	6
Big Sandy Ck S013	0	2
Big Sandy Ck S014	1	3
Big Sandy Ck S015	1	3
Big Sandy Ck S016	0	2
Big Sandy Ck S017	1	4
Pringle Ck S010	1	2
Pringle Ck S020	1	2
Pringle Ck S030	1	2
Pringle Ck S040	1	2
Pringle Ck S050	0	2
Pringle Ck S060	0	1
Big Sandy Ck S018	0	1
Brushy Ck S010	3	4
Brushy Ck S021	1	1
Brushy Ck S022	2	7
Brushy Ck S023	0	0
Brushy Ck S024	1	2
Brushy Ck S025	1	1
Brushy Ck S026	2	4
Grapevine Ck S010	1	1
Grapevine Ck S020	1	2
Grapevine Ck S030	1	2
Grapevine Ck S040	1	2
Brushy Ck S027	2	4
Brushy Ck S028	3	4
Brushy Ck S029	2	5
Dry Hollow Br S010	0	1
Dry Hollow Br S020	1	3
Dry Hollow Br S030	1	3
Dry Hollow Br S040	1	2

Subbasin	2016 % Impervious	2020 % Impervious
Dry Hollow Br S050	1	4
Dry Hollow Br S060	1	2
Dry Hollow Br S070	7	11
Dry Hollow Br S080	3	4
Big Sandy Ck S021	1	2
Chicken Ck S010	1	2
Chicken Ck S020	1	2
Chicken Ck S030	1	2
Big Sandy Ck S022	1	2
Big Sandy Ck Trib S010	3	4
Big Sandy Ck Trib S020	22	22
Big Sandy Ck Trib S030	4	6
Big Sandy Ck S023	0	1
Big Sandy Ck S024	5	7
Big Sandy Ck S025	1	1
Mudhole Br S010	0	2
Mudhole Br S020	0	2
Big Sandy Ck S026	1	5
Big Sandy Ck S027	0	1
Big Sandy Ck S028	2	3
Briar Br S010	0	2
Briar Br S020	0	2
Briar Br S030	2	5
Briar Br S040	6	9
Walkers Br S010	1	2
Walkers Br S020	1	2
Walkers Br S030	2	3
Walkers Br S040	7	7
Briar Br S050	1	3
Briar Br S060	0	3
Big Sandy Ck S031	1	2
Big Sandy Ck S032	3	5
Big Sandy Ck S033	1	2
Big Sandy Ck S034	1	4
Watson Br S010	1	2
Watson Br S020	1	4
Watson Br S030	4	5
Watson Br S040	1	2

Subbasin	2016 % Impervious	2020 % Impervious
Twin Pond CK S010	2	6
Twin Pond CK S020	1	3
Watson Br S050	0	2
Big Sandy Ck S035	1	3
Big Sandy Ck S041	2	5
Waggoner Br S010	11	14
Waggoner Br S020	7	11
Waggoner Br S030	1	5
Rosebud Br S010	1	3
Rosebud Br S020	1	3
Rosebud Br S030	2	3
Waggoner Br S040	1	4
Big Sandy Ck S042	1	3
Big Sandy Ck S043	1	2
West Fork S181	1	3
West Fork S182	0	2
West Fork S183	1	4
West Fork S184	1	6
Martin Br S010	22	25
Martin Br S020	2	3
Martin Br S030	1	3
Martin Br S040	0	2
Martin Br S050	2	6
Martin Br S060	1	2
West Fork S185	0	3
West Fork S191	3	4
West Fork S192	1	3
Garrett Ck S001	0	2
Garrett Ck S002	0	1
Garrett Ck S003	0	1
Garrett Ck S004	1	2
Garrett Ck S005	1	2
Garrett Ck S006	1	2
Garrett Ck S007	1	2
Garrett Ck S008	0	6
Rush Ck S010	0	1
Rush Ck S020	2	2
Rush Ck S050	1	2

Subbasin	2016 % Impervious	2020 % Impervious
Rush Ck S030	1	2
Rush Ck S040	1	3
Rush Ck S060	1	2
Rush Ck S070	0	2
Garrett Ck S009	1	2
Garrett Ck S031	1	3
Garrett Ck S032	2	3
Garrett Ck S033	1	4
Salt Ck S001	0	2
Salt Ck S002	1	2
Salt Ck S003	1	5
Salt Ck S004	0	1
Salt Ck S005	1	2
Salt Ck S006	1	4
Salt Ck S007	0	2
Salt Ck S008	0	2
Salt Ck S009	1	3
Gonzollas Ck S010	0	2
Gonzollas Ck S020	1	2
Gonzollas Ck S030	1	4
Salt Ck S011	1	3
Pecan Br S010	1	2
Salt Ck S012	2	3
Salt Ck S013	0	2
Salt Ck S014	1	2
Salt Ck S015	0	2
Salt Ck S016	1	4
Salt Ck S017	1	3
Salt Ck S018	1	2
Cottonwood Ck S010	1	2
Cottonwood Ck S020	1	3
Salt Ck S019	2	3
Salt Ck S021	1	3
Garrett Ck S034	1	3
Salt Ck S022	0	1
West Fork S201	1	2
Lola Ck S010	1	3
Lola Ck S020	1	3

Subbasin	2016 % Impervious	2020 % Impervious
West Fork S202	1	1
West Fork S203	4	5
West Fork S204	1	3
West Fork S205	1	2
West Fork S206	2	3
West Fork S207	2	4
West Fork S208	2	3
Walker Ck S010	1	4
Walker Ck S020	1	3
West Fork S209	3	5
West Fork S211	5	7
Deep Ck S10	2	2
Deep Ck S20	1	2
Deep Ck S30	1	2
West Fork S212	0	1
Blue Ck S10	3	3
Blue Ck S20	8	8
Blue Ck S25	3	3
Blue Ck S40	1	2
Blue Ck S30	1	2
Blue Ck S50	6	12
Blue Ck S60	5	7
West Fork S213	5	9
West Fork S214	5	9
West Fork S215	1	4
Hog Branch S10	0	2
Hog Branch S20	1	2
Hog Brach S30	1	3
Hog Branch S40	2	5
West Fork S216	2	2
West Fork S217	1	3
Dry Fork S10	1	4
Dry Fork S20	1	3
Eagle Mountain S001	4	6
Oates Branch S10	9	9
Oates Brannch S30	2	5
Oates Branch S20	14	14
Oates Branch S40	2	5

Subbasin	2016 % Impervious	2020 % Impervious
Oates Branch S50	4	9
Oates Branch S60	2	7
Oates Branch S70	1	10
Eagle Mountain S002	12	14
Eagle Mountain S003	15	22
Derrett Ck S30	3	6
Derrett Ck S40	7	12
Derrett Ck S50	2	11
Derrett Ck S60	7	15
Eagle Mountain S004	45	49
Briar Ck S10	2	4
Briar Ck S20	6	11
Eagle Mountain S005	54	57
Eagle Mountain S006	43	46
Indian Ck S010	13	13
Indian Ck S020	6	7
Indian Ck S030	5	5
Moss Branch S010	5	5
Moss Branch S020	2	2
Indian Ck S040	3	6
Indian Ck S050	26	28
Gilmore Branch S010	3	4
Eagle Mountain S031	38	38
Swift Branch S010	1	7
Walnut Ck S001	4	6
Walnut Ck S002	1	6
Walnut Ck S003	1	4
Walnut Ck S004	2	5
Goshen Ck S010	1	3
Goshen Ck S020	2	6
Walnut Ck S005	8	11
Walnut Ck S006	1	4
Walnut Ck S007	5	8
Walnut Ck S008	21	21
Browders Ck S010	2	6
Browders Ck S020	1	3
Browders Ck S030	10	13
Walnut Ck S009	2	5

Subbasin	2016 % Impervious	2020 % Impervious
Dry Br S010	1	4
Dry Br S020	3	7
Dry Br S030	2	4
Woody Ck S010	1	3
Woody Ck S020	2	4
Woody Ck S030	1	3
Walnut Ck S010	0	3
Walnut Ck S011	0	1
Walnut Ck S012	3	5
Walnut Ck S013	5	8
Walnut Ck S014	1	3
Walnut Ck Trib S010	1	2
Walnut Ck Trib S020	0	2
Walnut Ck Trib S030	1	4
Walnut Ck Trib S040	0	2
Walnut Ck Trib S050	1	2
Walnut Ck Trib S060	0	3
Walnut Ck Trib S070	1	4
Walnut Ck Trib S080	1	4
Walnut Ck S015	0	2
Walnut Ck S016	2	5
Walnut Ck S017	1	3
Walnut Ck S018	1	4
Walnut Ck S019	1	3
Walnut Ck S021	10	18
Cottonwood Br S010	10	12
Cottonwood Br S020	3	5
Walnut Ck S022	1	3
Walnut Ck S023	1	3
Walnut Ck S024	4	9
Walnut Ck S025	7	12
Walnut Ck S026	5	9
Walnut Ck S027	3	5
Walnut Ck S028	7	12
Dosier Ck S010	6	10
Little Dosier Ck S010	7	8
Eagle Mountain S032	46	48
Ash Ck S010	1	4

Subbasin	2016 % Impervious	2020 % Impervious
Ash Ck S020	1	4
Ash Ck S030	2	5
Ash Ck S040	2	5
Ash Ck S050	6	11
Ash Ck S060	16	17
Ash Ck S070	6	7
Ash Ck S080	16	20
Ash Ck S090	5	10
Eagle Mountain S033	37	41
Lake Worth S010	19	19
Silver Ck S010	1	3
Silver Ck S020	1	2
Silver Ck S030	1	3
Silver Ck S040	1	3
Silver Ck S050	2	5
Silver Ck S060	3	5
Silver Ck S070	3	6
Silver Ck S080	1	3
Little Silver Ck S010	1	4
Little Silver Ck S020	3	5
Little Silver Ck S030	0	1
Little Silver Ck S040	2	3
Little Silver Ck S050	4	8
Silver Ck S090	3	4
Silver Ck S100	3	6
Silver Ck S110	4	7
Silver Ck S120	3	5
Silver Ck S130	4	5
Silver Ck S140	1	3
Mill Ck S010	5	8
Mill Ck S020	3	5
Mill Ck S030	4	7
Mill Ck S040	6	11
Silver Ck S150	2	9
Live Oak Ck S010	5	8
Live Oak Ck S020	7	10
Lake Worth S020	43	43

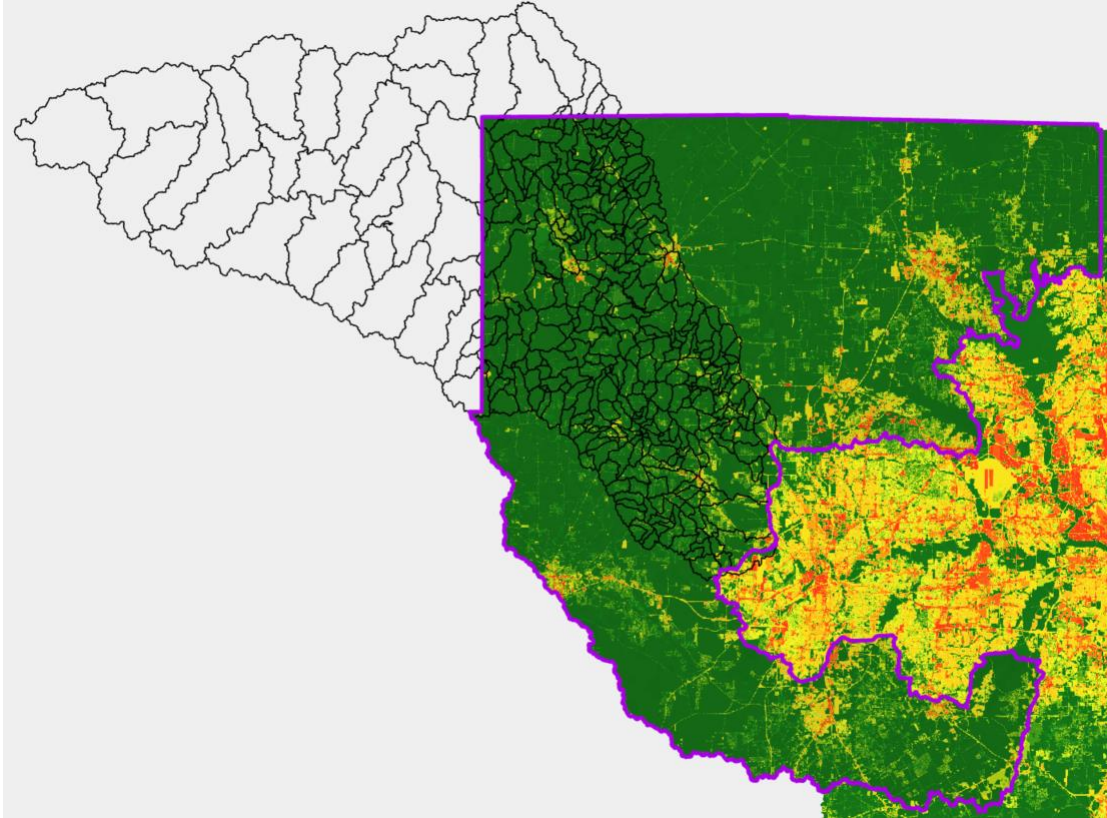


Figure 5-1. Map of Existing 2020 Percent Imperviousness from NCTCOG

5.1.2 2020 Conditions Loss Rates

For the West Fork flows, there were 2 sets of loss rates used. The first set of losses were used to compute the peak inflow to NRCS dams. For this set of loss rates, the default frequency loss rates are used for the 2020 basin models for the 1% ACE (100-yr) frequency storm as well as the 2% ACE (50-yr) and 0.2% ACE (500-yr) storms. For the 50% ACE (2-yr) and 10% ACE (10-yr) storms, the final WHA frequency loss rates are used since those were calibrated to the downstream gages records. These losses are included in the basin models that do not include

“NRCS” in the basin name. The second set of losses were used to compute the peak flows downstream of NRCS dams. Rather than modeling the SCS dams as structures in the HMS model, a more simplified approach was taken that was also used in the InFRM Trinity WHA. To account for the peak flow attenuating effects of the NRCS dams, the initial losses were increased in the subbasins where the NRCS dam was located based on the portion of that subbasin controlled by the NRCS dam. The maximum loss increase for the Trinity Basin was selected as 4 inches. The amount of loss that was added was based on the typical available storage between the riser and the spillway of structures in the basin and was adjusted in proportion to the size of the frequency rainfall event. The maximum loss added for the 2 year event is only 0.6 inches while the maximum loss added for the 50 year and rarer events is 4 inches. For example, if a subbasin break was added at the NRCS dam, then the amount controlled would be 100% and so 4 inches of initial loss would be added to the default initial loss. If the dam was located farther upstream in the subbasin and only controlled 50% of the area, only 2 inches would be added. These losses are included in the basin models that include “NRCS” in the basin name. See the HMS SOP for additional detail.

Table 5-2. 2020 Existing Conditions Loss Rates (Without increased losses for NRCS Dams)

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
West_Fork_S010	1.66	0.24	1.52	0.17	1.01	0.12	0.85	0.09	0.57	0.07
West_Fork_S020	1.63	0.24	1.37	0.17	1.01	0.12	0.85	0.09	0.57	0.07
West_Fork_S030	1.65	0.24	1.39	0.17	1.02	0.12	0.86	0.09	0.57	0.07
West_Fork_S040	1.63	0.24	1.38	0.17	1.02	0.12	0.85	0.09	0.57	0.07
West_Fork_S050	1.64	0.24	1.38	0.17	1.02	0.12	0.85	0.09	0.57	0.07
West_Fork_S060	1.63	0.24	1.37	0.17	1.01	0.12	0.85	0.09	0.57	0.07
West_Fork_S070	1.66	0.24	1.39	0.17	1.03	0.12	0.86	0.09	0.57	0.07
West_Fork_S080	1.62	0.24	1.36	0.17	1.01	0.12	0.85	0.09	0.56	0.07
West_Fork_S090	1.67	0.24	1.40	0.17	1.03	0.12	0.86	0.09	0.57	0.07
West_Fork_S100	1.60	0.24	1.35	0.16	1.00	0.12	0.84	0.09	0.56	0.07
West_Fork_S120	1.85	0.24	2.55	0.17	1.02	0.12	0.85	0.09	0.57	0.07
West_Fork_S110	1.69	0.25	1.41	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Cleveland_S010	1.99	0.24	3.36	0.17	1.02	0.12	0.85	0.09	0.57	0.07
Big_Cleveland_S020	1.83	0.24	2.46	0.17	1.02	0.12	0.85	0.09	0.57	0.07
West_Fork_S130	1.61	0.24	1.36	0.16	1.00	0.12	0.84	0.09	0.56	0.07
Lost_Ck_S010	1.90	0.24	1.37	0.17	1.01	0.12	0.85	0.09	0.57	0.07
Lost_Ck_S020	2.43	0.26	1.35	0.16	1.00	0.12	0.84	0.09	0.56	0.07
West_Fork_S140	2.64	0.26	2.09	0.17	1.01	0.12	0.85	0.09	0.56	0.07
West_Fork_S150	2.44	0.26	1.36	0.17	1.01	0.12	0.85	0.09	0.56	0.07
West_Fork_S160	2.50	0.26	1.39	0.17	1.02	0.12	0.86	0.09	0.57	0.07
Beans_Ck_S010	2.48	0.26	1.40	0.17	1.01	0.12	0.85	0.09	0.57	0.07

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Beans_Ck_S020	2.51	0.26	1.39	0.17	1.03	0.12	0.86	0.09	0.57	0.07
Big_Ck_S010	2.55	0.27	1.44	0.17	1.04	0.12	0.86	0.09	0.58	0.07
Big_Ck_S021	2.56	0.27	1.42	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Ck_S022	2.56	0.27	1.42	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Ck_S023	2.56	0.27	1.42	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Ck_S024	2.56	0.27	1.42	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Ck_S031	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.10	0.59	0.08
Big_Ck_S032	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.10	0.59	0.08
Big_Ck_S033	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.10	0.59	0.08
Big_Ck_S034	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.10	0.59	0.08
Big_Ck_S035	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.10	0.59	0.08
Big_Ck_S036	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.10	0.59	0.08
Big_Ck_S037	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.10	0.59	0.08
Boons_Ck_S010	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Boons_Ck_S020	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Boons_Ck_S030	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Boons_Ck_S040	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Boons_Ck_S050	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Boons_Ck_S060	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Boons_Ck_S070	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Boons_Ck_S080	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Boons_Ck_S090	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Willow_Ck_S010	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Willow_Ck_S020	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Willow_Ck_S030	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Willow_Ck_S040	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Willow_Ck_S050	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Willow_Ck_S060	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Willow_Ck_S070	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Willow_Ck_S080	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Willow_Ck_S090	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Coal_Bed_Br_S010	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Boons_Ck_S100	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Jasper_Ck_S010	2.54	0.27	1.41	0.17	1.04	0.12	0.86	0.09	0.58	0.07
Jasper_Ck_S020	2.54	0.27	1.41	0.17	1.04	0.12	0.86	0.09	0.58	0.07
Bridgeport_S002	2.22	0.24	1.25	0.15	0.93	0.11	0.80	0.08	0.53	0.06
Bridgeport_S001	2.22	0.24	1.25	0.15	0.93	0.11	0.80	0.08	0.53	0.06

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
West_Fork_S162	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S161	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S163	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S164	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S165	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S166	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
Dry_Ck_S010	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S020	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S030	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S040	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S050	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S060	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S070	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S080	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S090	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S100	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Ck_S110	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.10	0.59	0.08
West_Fork_S171	2.73	0.28	1.50	0.18	1.10	0.13	0.90	0.10	0.60	0.08
West_Fork_S172	2.73	0.28	1.50	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Amon_G_Carter_S030	2.03	0.24	1.87	0.17	1.03	0.12	0.86	0.09	0.57	0.07
Amon_G_Carter_S010	2.27	0.25	2.92	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Amon_G_Carter_S020	2.00	0.25	1.62	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Sandy_Ck_S010	1.81	0.25	1.81	0.17	1.06	0.12	0.87	0.09	0.58	0.07
Big_Sandy_Ck_S011	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S012	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S013	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S014	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S015	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S016	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S017	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Pringle_Ck_S010	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Pringle_Ck_S020	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Pringle_Ck_S030	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Pringle_Ck_S040	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Pringle_Ck_S050	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Pringle_Ck_S060	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S018	1.77	0.26	1.36	0.18	1.09	0.13	0.90	0.10	0.60	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Brushy_Ck_S010	1.76	0.26	1.42	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Brushy_Ck_S021	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Brushy_Ck_S022	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Brushy_Ck_S023	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Brushy_Ck_S024	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Brushy_Ck_S025	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Brushy_Ck_S026	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Grapevine_Ck_S010	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Grapevine_Ck_S020	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Grapevine_Ck_S030	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Grapevine_Ck_S040	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Brushy_Ck_S027	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Brushy_Ck_S028	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Brushy_Ck_S029	1.85	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Dry_Hollow_Br_S010	1.97	0.26	2.29	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Dry_Hollow_Br_S020	1.97	0.26	2.29	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Dry_Hollow_Br_S030	1.97	0.26	2.29	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Dry_Hollow_Br_S040	1.97	0.26	2.29	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Dry_Hollow_Br_S050	1.97	0.26	2.29	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Dry_Hollow_Br_S060	1.97	0.26	2.29	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Dry_Hollow_Br_S070	1.97	0.26	2.29	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Dry_Hollow_Br_S080	1.97	0.26	2.29	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S021	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Chicken_Ck_S010	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Chicken_Ck_S020	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Chicken_Ck_S030	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S022	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_Trib_S010	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_Trib_S020	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_Trib_S030	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S023	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S024	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S025	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Mudhole_Br_S010	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Mudhole_Br_S020	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S026	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S027	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Big_Sandy_Ck_S028	1.86	0.26	1.69	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Briar_Br_S010	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Briar_Br_S020	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Briar_Br_S030	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Briar_Br_S040	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Walkers_Br_S010	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Walkers_Br_S020	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Walkers_Br_S030	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Walkers_Br_S040	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Briar_Br_S050	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Briar_Br_S060	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S031	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S032	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S033	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S034	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Watson_Br_S010	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Watson_Br_S020	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Watson_Br_S030	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Watson_Br_S040	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Twin_Pond_CK_S010	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Twin_Pond_CK_S020	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Watson_Br_S050	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S035	1.81	0.26	1.47	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S041	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Waggoner_Br_S010	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Waggoner_Br_S020	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Waggoner_Br_S030	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Rosebud_Br_S010	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Rosebud_Br_S020	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Rosebud_Br_S030	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Waggoner_Br_S040	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S042	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Big_Sandy_Ck_S043	2.76	0.28	1.62	0.18	1.10	0.13	0.90	0.10	0.60	0.08
West_Fork_S181	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
West_Fork_S182	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
West_Fork_S183	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
West_Fork_S184	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Martin_Br_S010	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Martin_Br_S020	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Martin_Br_S030	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Martin_Br_S040	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Martin_Br_S050	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Martin_Br_S060	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
West_Fork_S185	2.73	0.28	1.60	0.18	1.09	0.13	0.89	0.10	0.60	0.08
West_Fork_S191	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.10	0.59	0.08
West_Fork_S192	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S001	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S002	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S003	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S004	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S005	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S006	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S007	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S008	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.10	0.59	0.08
Rush_Ck_S010	2.90	0.27	2.44	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Rush_Ck_S020	2.90	0.27	2.44	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Rush_Ck_S050	2.90	0.27	2.44	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Rush_Ck_S030	2.90	0.27	2.44	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Rush_Ck_S040	2.90	0.27	2.44	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Rush_Ck_S060	2.90	0.27	2.44	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Rush_Ck_S070	2.90	0.27	2.44	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Garrett_Ck_S009	2.90	0.27	2.44	0.18	1.07	0.13	0.88	0.10	0.59	0.08
Garrett_Ck_S031	2.70	0.28	1.48	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Garrett_Ck_S032	2.70	0.28	1.48	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Garrett_Ck_S033	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.10	0.59	0.08
Salt_Ck_S001	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S002	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S003	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S004	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S005	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S006	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S007	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S008	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S009	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Gonzollas_Ck_S010	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Gonzollas_Ck_S020	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Gonzollas_Ck_S030	3.00	0.28	3.54	0.18	1.10	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S011	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Pecan_Br_S010	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S012	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S013	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S014	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S015	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S016	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S017	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S018	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Cottonwood_Ck_S010	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Cottonwood_Ck_S020	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S019	2.99	0.28	2.44	0.18	1.11	0.13	0.90	0.10	0.60	0.08
Salt_Ck_S021	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.10	0.59	0.08
Garrett_Ck_S034	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.10	0.59	0.08
Salt_Ck_S022	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.10	0.59	0.08
West_Fork_S201	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Lola_Ck_S010	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Lola_Ck_S020	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S202	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S203	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S204	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S205	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S206	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S207	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S208	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walker_Ck_S010	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walker_Ck_S020	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S209	2.72	0.28	1.49	0.18	1.09	0.13	0.90	0.10	0.60	0.08
West_Fork_S211	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Deep_Ck_S10	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Deep_Ck_S20	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Deep_Ck_S30	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
West_Fork_S212	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Blue_Ck_S10	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Blue_Ck_S20	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Blue_Ck_S25	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Blue_Ck_S40	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Blue_Ck_S30	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Blue_Ck_S50	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Blue_Ck_S60	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
West_Fork_S213	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
West_Fork_S214	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
West_Fork_S215	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Hog_Branch_S10	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Hog_Branch_S20	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Hog_Branch_S30	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Hog_Branch_S40	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
West_Fork_S216	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
West_Fork_S217	2.93	0.28	2.76	0.20	1.08	0.13	0.89	0.10	0.59	0.08
Dry_Fork_S10	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Dry_Fork_S20	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Eagle_Mountain_S001	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Oates_Branch_S10	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Oates_Branch_S30	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Oates_Branch_S20	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Oates_Branch_S40	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Oates_Branch_S50	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Oates_Branch_S60	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Oates_Branch_S70	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Eagle_Mountain_S002	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Eagle_Mountain_S003	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Derrett_Ck_S30	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Derrett_Ck_S40	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Derrett_Ck_S50	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Derrett_Ck_S60	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Eagle_Mountain_S004	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Briar_Ck_S10	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Briar_Ck_S20	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Eagle_Mountain_S005	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Eagle_Mountain_S006	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.10	0.59	0.08
Indian_Ck_S010	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Indian_Ck_S020	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Indian_Ck_S030	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Moss_Branch_S010	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Moss_Branch_S020	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Indian_Ck_S040	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Indian_Ck_S050	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Gilmore_Branch_S010	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Eagle_Mountain_S031	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Swift_Branch_S010	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Walnut_Ck_S001	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S002	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S003	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S004	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Goshen_Ck_S010	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Goshen_Ck_S020	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S005	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S006	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S007	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S008	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Browders_Ck_S010	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Browders_Ck_S020	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Browders_Ck_S030	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S009	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Dry_Br_S010	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Dry_Br_S020	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Dry_Br_S030	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Woody_Ck_S010	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Woody_Ck_S020	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Woody_Ck_S030	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S010	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.10	0.60	0.08
Walnut_Ck_S011	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S012	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S013	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S014	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_Trib_S010	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_Trib_S020	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_Trib_S030	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Walnut_Ck_Trib_S040	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_Trib_S050	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_Trib_S060	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_Trib_S070	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_Trib_S080	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S015	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S016	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S017	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S018	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S019	1.98	0.26	2.08	0.18	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S021	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Cottonwood_Br_S010	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Cottonwood_Br_S020	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S022	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S023	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S024	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S025	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S026	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S027	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Walnut_Ck_S028	2.89	0.28	2.39	0.20	1.09	0.13	0.90	0.10	0.60	0.08
Dosier_Ck_S010	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Little_Dosier_Ck_S010	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Eagle_Mountain_S032	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Ash_Ck_S010	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Ash_Ck_S020	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Ash_Ck_S030	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Ash_Ck_S040	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Ash_Ck_S050	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Ash_Ck_S060	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Ash_Ck_S070	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Ash_Ck_S080	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Ash_Ck_S090	2.83	0.27	2.35	0.20	1.07	0.13	0.88	0.10	0.59	0.08
Eagle_Mountain_S033	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Lake_Worth_S010	2.78	0.27	2.32	0.19	1.05	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S010	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Silver_Ck_S020	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Silver_Ck_S030	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Silver_Ck_S040	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Silver_Ck_S050	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Silver_Ck_S060	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Silver_Ck_S070	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Silver_Ck_S080	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Little_Silver_Ck_S010	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Little_Silver_Ck_S020	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Little_Silver_Ck_S030	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Little_Silver_Ck_S040	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Little_Silver_Ck_S050	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Silver_Ck_S090	2.91	0.28	2.59	0.20	1.09	0.13	0.89	0.10	0.59	0.08
Silver_Ck_S100	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S110	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S120	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S130	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S140	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Mill_Ck_S010	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Mill_Ck_S020	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Mill_Ck_S030	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Mill_Ck_S040	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S150	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Live_Oak_Ck_S010	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Live_Oak_Ck_S020	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Lake_Worth_S020	2.70	0.26	2.27	0.19	1.01	0.12	0.85	0.09	0.57	0.07

Table 5-3. 2020 Existing Conditions Loss Rates (Without increased losses for NRCS Dams)

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
West_Fork_S010	1.66	0.24	1.52	0.17	1.21	0.12	1.05	0.09	0.57	0.07
West_Fork_S020	1.63	0.24	1.37	0.17	1.01	0.12	0.85	0.09	0.57	0.07
West_Fork_S030	1.65	0.24	1.39	0.17	1.02	0.12	0.86	0.09	0.57	0.07
West_Fork_S040	1.63	0.24	1.38	0.17	1.02	0.12	0.85	0.09	0.57	0.07
West_Fork_S050	1.64	0.24	1.38	0.17	1.02	0.12	0.85	0.09	0.57	0.07

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
West_Fork_S060	1.63	0.24	1.37	0.17	1.01	0.12	0.85	0.09	0.57	0.07
West_Fork_S070	1.66	0.24	1.39	0.17	1.03	0.12	0.86	0.09	0.57	0.07
West_Fork_S080	1.62	0.24	1.36	0.17	1.01	0.12	0.85	0.09	0.56	0.07
West_Fork_S090	1.67	0.24	1.4	0.17	1.03	0.12	0.86	0.09	0.57	0.07
West_Fork_S100	1.6	0.24	1.35	0.16	1	0.12	0.84	0.09	0.56	0.07
West_Fork_S120	1.85	0.24	2.55	0.17	2.58	0.12	2.41	0.09	0.57	0.07
West_Fork_S110	1.69	0.25	1.41	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Cleveland_S010	1.99	0.24	3.36	0.17	3.66	0.12	3.49	0.09	0.57	0.07
Big_Cleveland_S020	1.83	0.24	2.46	0.17	2.46	0.12	2.29	0.09	0.57	0.07
West_Fork_S130	1.61	0.24	1.36	0.16	1	0.12	0.84	0.09	0.56	0.07
Lost_Ck_S010	1.9	0.24	1.37	0.17	1.01	0.12	0.85	0.09	0.57	0.07
Lost_Ck_S020	2.43	0.26	1.35	0.16	1	0.12	0.84	0.09	0.56	0.07
West_Fork_S140	2.64	0.26	2.09	0.17	1.97	0.12	1.81	0.09	0.56	0.07
West_Fork_S150	2.44	0.26	1.36	0.17	1.01	0.12	0.85	0.09	0.56	0.07
West_Fork_S160	2.5	0.26	1.39	0.17	1.02	0.12	0.86	0.09	0.57	0.07
Beans_Ck_S010	2.48	0.26	1.4	0.17	1.05	0.12	0.89	0.09	0.57	0.07
Beans_Ck_S020	2.51	0.26	1.39	0.17	1.03	0.12	0.86	0.09	0.57	0.07
Big_Ck_S010	2.55	0.27	1.44	0.17	1.08	0.12	0.9	0.09	0.58	0.07
Big_Ck_S021	2.56	0.27	1.42	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Ck_S022	2.56	0.27	1.42	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Ck_S023	2.56	0.27	1.42	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Ck_S024	2.56	0.27	1.42	0.17	1.04	0.12	0.87	0.09	0.58	0.07
Big_Ck_S031	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.1	0.59	0.08
Big_Ck_S032	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.1	0.59	0.08
Big_Ck_S033	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.1	0.59	0.08
Big_Ck_S034	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.1	0.59	0.08
Big_Ck_S035	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.1	0.59	0.08
Big_Ck_S036	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.1	0.59	0.08
Big_Ck_S037	2.63	0.27	1.45	0.17	1.07	0.13	0.88	0.1	0.59	0.08
Boons_Ck_S010	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Boons_Ck_S020	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Boons_Ck_S030	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Boons_Ck_S040	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Boons_Ck_S050	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Boons_Ck_S060	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Boons_Ck_S070	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Boons_Ck_S080	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Boons_Ck_S090	2.68	0.28	1.47	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Willow_Ck_S010	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Willow_Ck_S020	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Willow_Ck_S030	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Willow_Ck_S040	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Willow_Ck_S050	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Willow_Ck_S060	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Willow_Ck_S070	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Willow_Ck_S080	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Willow_Ck_S090	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Coal_Bed_Br_S010	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Boons_Ck_S100	2.65	0.27	1.46	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Jasper_Ck_S010	2.54	0.27	1.41	0.17	1.04	0.12	0.86	0.09	0.58	0.07
Jasper_Ck_S020	2.54	0.27	1.41	0.17	1.04	0.12	0.86	0.09	0.58	0.07
Bridgeport_S002	2.22	0.24	1.25	0.15	0.93	0.11	0.8	0.08	0.53	0.06
Bridgeport_S001	2.22	0.24	1.25	0.15	0.93	0.11	0.8	0.08	0.53	0.06
West_Fork_S162	2.816	0.27	2.65	0.17	2.69	0.12	2.51	0.09	2.22	0.07
West_Fork_S161	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S163	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S164	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S165	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
West_Fork_S166	2.57	0.27	1.42	0.17	1.05	0.12	0.87	0.09	0.58	0.07
Dry_Ck_S010	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S020	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S030	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S040	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S050	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S060	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S070	3.29	0.28	4.56	0.18	5.08	0.13	4.89	0.1	4.59	0.08
Dry_Ck_S080	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S090	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S100	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Ck_S110	2.69	0.28	1.56	0.18	1.08	0.13	0.89	0.1	0.59	0.08
West_Fork_S171	2.73	0.28	1.5	0.18	1.1	0.13	0.9	0.1	0.6	0.08
West_Fork_S172	2.73	0.28	1.5	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Amon_G_Carter_S030	2.03	0.24	1.87	0.17	1.67	0.12	1.5	0.09	0.57	0.07
Amon_G_Carter_S010	2.27	0.25	2.92	0.17	3.04	0.12	2.87	0.09	0.58	0.07

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Amon_G_Carter_S020	2	0.25	1.62	0.17	1.32	0.12	1.15	0.09	0.58	0.07
Big_Sandy_Ck_S010	1.81	0.25	1.81	0.17	1.56	0.12	1.37	0.09	0.58	0.07
Big_Sandy_Ck_S011	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S012	2.37	0.26	4.36	0.18	5.09	0.13	4.9	0.1	4.6	0.08
Big_Sandy_Ck_S013	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S014	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S015	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S016	1.824	0.26	1.63	0.18	1.45	0.13	1.26	0.1	0.96	0.08
Big_Sandy_Ck_S017	1.896	0.26	1.99	0.18	1.93	0.13	1.74	0.1	1.44	0.08
Pringle_Ck_S010	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Pringle_Ck_S020	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Pringle_Ck_S030	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Pringle_Ck_S040	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Pringle_Ck_S050	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Pringle_Ck_S060	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S018	1.77	0.26	1.36	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Brushy_Ck_S010	1.76	0.26	1.42	0.18	1.24	0.13	1.05	0.1	0.59	0.08
Brushy_Ck_S021	1.97	0.26	2.29	0.18	1.9	0.13	1.7	0.1	1.4	0.08
Brushy_Ck_S022	1.85	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Brushy_Ck_S023	1.952	0.26	2.2	0.18	1.78	0.13	1.58	0.1	1.28	0.08
Brushy_Ck_S024	1.85	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Brushy_Ck_S025	2.204	0.26	3.46	0.18	3.46	0.13	3.26	0.1	2.96	0.08
Brushy_Ck_S026	1.85	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Grapevine_Ck_S010	1.892	0.26	1.9	0.18	1.38	0.13	1.18	0.1	0.88	0.08
Grapevine_Ck_S020	1.85	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Grapevine_Ck_S030	2.45	0.26	4.69	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Grapevine_Ck_S040	1.85	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Brushy_Ck_S027	1.85	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Brushy_Ck_S028	1.85	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Brushy_Ck_S029	1.85	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Dry_Hollow_Br_S010	1.97	0.26	2.29	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Dry_Hollow_Br_S020	2.57	0.26	5.29	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Dry_Hollow_Br_S030	2.186	0.26	3.37	0.18	2.54	0.13	2.34	0.1	2.04	0.08
Dry_Hollow_Br_S040	2.57	0.26	5.29	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Dry_Hollow_Br_S050	2.048	0.26	2.68	0.18	1.62	0.13	1.42	0.1	1.12	0.08
Dry_Hollow_Br_S060	1.97	0.26	2.29	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Dry_Hollow_Br_S070	1.97	0.26	2.29	0.18	1.1	0.13	0.9	0.1	0.6	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Dry_Hollow_Br_S080	1.97	0.26	2.29	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S021	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Chicken_Ck_S010	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Chicken_Ck_S020	2.46	0.26	4.69	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Chicken_Ck_S030	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S022	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_Trib_S010	2.184	0.26	3.31	0.18	3.26	0.13	3.06	0.1	2.76	0.08
Big_Sandy_Ck_Trib_S020	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_Trib_S030	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S023	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S024	2.46	0.26	4.69	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Big_Sandy_Ck_S025	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Mudhole_Br_S010	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Mudhole_Br_S020	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S026	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S027	2.22	0.26	3.49	0.18	3.5	0.13	3.3	0.1	3	0.08
Big_Sandy_Ck_S028	1.86	0.26	1.69	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Briar_Br_S010	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Briar_Br_S020	1.846	0.26	1.65	0.18	1.34	0.13	1.14	0.1	0.84	0.08
Briar_Br_S030	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Briar_Br_S040	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Walkers_Br_S010	1.84	0.26	1.62	0.18	1.3	0.13	1.1	0.1	0.8	0.08
Walkers_Br_S020	2.224	0.26	3.54	0.18	3.86	0.13	3.66	0.1	3.36	0.08
Walkers_Br_S030	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Walkers_Br_S040	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Briar_Br_S050	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Briar_Br_S060	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S031	1.906	0.26	1.95	0.18	1.74	0.13	1.54	0.1	1.24	0.08
Big_Sandy_Ck_S032	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S033	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S034	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Watson_Br_S010	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Watson_Br_S020	2.146	0.26	3.15	0.18	3.34	0.13	3.14	0.1	2.84	0.08
Watson_Br_S030	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Watson_Br_S040	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Twin_Pond_CK_S010	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Twin_Pond_CK_S020	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Watson_Br_S050	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S035	1.81	0.26	1.47	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S041	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Waggoner_Br_S010	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Waggoner_Br_S020	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Waggoner_Br_S030	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Rosebud_Br_S010	3.36	0.28	4.62	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Rosebud_Br_S020	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Rosebud_Br_S030	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Waggoner_Br_S040	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S042	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Big_Sandy_Ck_S043	2.76	0.28	1.62	0.18	1.1	0.13	0.9	0.1	0.6	0.08
West_Fork_S181	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
West_Fork_S182	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
West_Fork_S183	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
West_Fork_S184	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Martin_Br_S010	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Martin_Br_S020	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Martin_Br_S030	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Martin_Br_S040	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Martin_Br_S050	2.856	0.28	2.23	0.18	1.93	0.13	1.73	0.1	1.44	0.08
Martin_Br_S060	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
West_Fork_S185	2.73	0.28	1.6	0.18	1.09	0.13	0.89	0.1	0.6	0.08
West_Fork_S191	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.1	0.59	0.08
West_Fork_S192	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.1	0.59	0.08
Garrett_Ck_S001	3.54	0.28	5.52	0.18	5.08	0.13	4.89	0.1	4.59	0.08
Garrett_Ck_S002	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Garrett_Ck_S003	3.54	0.28	5.52	0.18	5.08	0.13	4.89	0.1	4.59	0.08
Garrett_Ck_S004	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Garrett_Ck_S005	3.024	0.28	2.94	0.18	1.64	0.13	1.45	0.1	1.15	0.08
Garrett_Ck_S006	3.51	0.28	5.37	0.18	4.88	0.13	4.69	0.1	4.39	0.08
Garrett_Ck_S007	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Garrett_Ck_S008	2.94	0.28	2.52	0.18	1.08	0.13	0.89	0.1	0.59	0.08
Rush_Ck_S010	3.5	0.27	5.44	0.18	5.07	0.13	4.88	0.1	4.59	0.08
Rush_Ck_S020	2.9	0.27	2.44	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Rush_Ck_S050	2.9	0.27	2.44	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Rush_Ck_S030	2.9	0.27	2.44	0.18	1.07	0.13	0.88	0.1	0.59	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Rush_Ck_S040	2.9	0.27	2.44	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Rush_Ck_S060	2.9	0.27	2.44	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Rush_Ck_S070	2.9	0.27	2.44	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Garrett_Ck_S009	2.9	0.27	2.44	0.18	1.07	0.13	0.88	0.1	0.59	0.08
Garrett_Ck_S031	2.7	0.28	1.48	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Garrett_Ck_S032	2.7	0.28	1.48	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Garrett_Ck_S033	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.1	0.59	0.08
Salt_Ck_S001	3.6	0.28	6.54	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Salt_Ck_S002	3	0.28	3.54	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S003	3.6	0.28	6.54	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Salt_Ck_S004	3	0.28	3.54	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S005	3	0.28	3.54	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S006	3.6	0.28	6.54	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Salt_Ck_S007	3	0.28	3.54	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S008	3	0.28	3.54	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S009	3.432	0.28	5.7	0.18	3.98	0.13	3.78	0.1	3.48	0.08
Gonzollas_Ck_S010	3	0.28	3.54	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Gonzollas_Ck_S020	3.6	0.28	6.54	0.18	5.1	0.13	4.9	0.1	4.6	0.08
Gonzollas_Ck_S030	3	0.28	3.54	0.18	1.1	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S011	2.99	0.28	2.44	0.18	1.11	0.13	0.9	0.1	0.6	0.08
Pecan_Br_S010	3.44	0.28	4.69	0.18	4.11	0.13	3.9	0.1	3.6	0.08
Salt_Ck_S012	2.99	0.28	2.44	0.18	1.11	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S013	3.59	0.28	5.44	0.18	5.11	0.13	4.9	0.1	4.6	0.08
Salt_Ck_S014	3.356	0.28	4.27	0.18	3.55	0.13	3.34	0.1	3.04	0.08
Salt_Ck_S015	2.99	0.28	2.44	0.18	1.11	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S016	3.59	0.28	5.44	0.18	5.11	0.13	4.9	0.1	4.6	0.08
Salt_Ck_S017	2.99	0.28	2.44	0.18	1.11	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S018	3.14	0.28	3.19	0.18	2.11	0.13	1.9	0.1	1.6	0.08
Cottonwood_Ck_S010	3.59	0.28	5.44	0.18	5.11	0.13	4.9	0.1	4.6	0.08
Cottonwood_Ck_S020	2.99	0.28	2.44	0.18	1.11	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S019	2.99	0.28	2.44	0.18	1.11	0.13	0.9	0.1	0.6	0.08
Salt_Ck_S021	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.1	0.59	0.08
Garrett_Ck_S034	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.1	0.59	0.08
Salt_Ck_S022	2.69	0.28	1.48	0.18	1.09	0.13	0.89	0.1	0.59	0.08
West_Fork_S201	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Lola_Ck_S010	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Lola_Ck_S020	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
West_Fork_S202	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
West_Fork_S203	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
West_Fork_S204	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
West_Fork_S205	3.32	0.28	4.49	0.18	5.09	0.13	4.9	0.1	4.6	0.08
West_Fork_S206	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
West_Fork_S207	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
West_Fork_S208	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walker_Ck_S010	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walker_Ck_S020	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
West_Fork_S209	2.72	0.28	1.49	0.18	1.09	0.13	0.9	0.1	0.6	0.08
West_Fork_S211	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Deep_Ck_S10	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Deep_Ck_S20	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Deep_Ck_S30	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
West_Fork_S212	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Blue_Ck_S10	3.476	0.28	5.49	0.2	4.72	0.13	4.53	0.1	4.23	0.08
Blue_Ck_S20	3.476	0.28	5.49	0.2	4.72	0.13	4.53	0.1	4.23	0.08
Blue_Ck_S25	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Blue_Ck_S40	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Blue_Ck_S30	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Blue_Ck_S50	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Blue_Ck_S60	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
West_Fork_S213	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
West_Fork_S214	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
West_Fork_S215	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Hog_Branch_S10	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Hog_Branch_S20	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Hog_Branch_S30	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Hog_Branch_S40	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
West_Fork_S216	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
West_Fork_S217	2.93	0.28	2.76	0.2	1.08	0.13	0.89	0.1	0.59	0.08
Dry_Fork_S10	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Dry_Fork_S20	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Eagle_Mountain_S001	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Oates_Branch_S10	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Oates_Branch_S30	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Oates_Branch_S20	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Oates_Branch_S40	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Oates_Branch_S50	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Oates_Branch_S60	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Oates_Branch_S70	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Eagle_Mountain_S002	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Eagle_Mountain_S003	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Derrett_Ck_S30	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Derrett_Ck_S40	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Derrett_Ck_S50	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Derrett_Ck_S60	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Eagle_Mountain_S004	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Briar_Ck_S10	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Briar_Ck_S20	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Eagle_Mountain_S005	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Eagle_Mountain_S006	2.81	0.27	2.34	0.19	1.06	0.13	0.88	0.1	0.59	0.08
Indian_Ck_S010	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Indian_Ck_S020	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Indian_Ck_S030	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Moss_Branch_S010	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Moss_Branch_S020	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Indian_Ck_S040	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Indian_Ck_S050	2.63	0.25	2.23	0.18	0.98	0.12	0.83	0.09	0.56	0.07
Gilmore_Branch_S010	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Eagle_Mountain_S031	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Swift_Branch_S010	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Walnut_Ck_S001	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S002	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S003	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S004	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Goshen_Ck_S010	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Goshen_Ck_S020	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S005	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S006	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S007	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S008	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Browders_Ck_S010	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Browders_Ck_S020	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Browders_Ck_S030	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S009	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Dry_Br_S010	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Dry_Br_S020	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Dry_Br_S030	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Woody_Ck_S010	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Woody_Ck_S020	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Woody_Ck_S030	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S010	1.97	0.26	2.07	0.18	1.09	0.13	0.89	0.1	0.6	0.08
Walnut_Ck_S011	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S012	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S013	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S014	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_Trib_S010	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_Trib_S020	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_Trib_S030	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_Trib_S040	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_Trib_S050	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_Trib_S060	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_Trib_S070	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_Trib_S080	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S015	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S016	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S017	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S018	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S019	1.98	0.26	2.08	0.18	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S021	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Cottonwood_Br_S010	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Cottonwood_Br_S020	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S022	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S023	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S024	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S025	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S026	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S027	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Walnut_Ck_S028	2.89	0.28	2.39	0.2	1.09	0.13	0.9	0.1	0.6	0.08
Dosier_Ck_S010	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Little_Dosier_Ck_S010	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Eagle_Mountain_S032	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Ash_Ck_S010	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Ash_Ck_S020	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Ash_Ck_S030	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Ash_Ck_S040	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Ash_Ck_S050	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Ash_Ck_S060	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Ash_Ck_S070	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Ash_Ck_S080	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Ash_Ck_S090	2.83	0.27	2.35	0.2	1.07	0.13	0.88	0.1	0.59	0.08
Eagle_Mountain_S033	2.66	0.26	2.25	0.18	0.99	0.12	0.84	0.09	0.56	0.07
Lake_Worth_S010	2.78	0.27	2.32	0.19	1.05	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S010	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S020	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S030	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S040	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S050	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S060	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S070	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S080	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Little_Silver_Ck_S010	3.51	0.28	5.59	0.2	5.09	0.13	4.89	0.1	4.59	0.08
Little_Silver_Ck_S020	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Little_Silver_Ck_S030	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Little_Silver_Ck_S040	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Little_Silver_Ck_S050	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S090	2.91	0.28	2.59	0.2	1.09	0.13	0.89	0.1	0.59	0.08
Silver_Ck_S100	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S110	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S120	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S130	3.41	0.27	5.53	0.19	5.04	0.12	4.87	0.09	4.58	0.07
Silver_Ck_S140	3.368	0.27	5.32	0.19	4.76	0.12	4.59	0.09	4.3	0.07
Mill_Ck_S010	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Mill_Ck_S020	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Mill_Ck_S030	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Mill_Ck_S040	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Silver_Ck_S150	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07

West Fork	WHA Loss Rates				Default Loss Rates					
	50% ACE (2-yr)		10% ACE (10-yr)		2% ACE (50-yr)		1% ACE (100-yr)		0.2% ACE (500-yr)	
Subbasin	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)	Initial (in)	Constant (in/hr)
Live_Oak_Ck_S010	2.81	0.27	2.53	0.19	1.04	0.12	0.87	0.09	0.58	0.07
Live_Oak_Ck_S020	2.858	0.27	2.77	0.19	1.36	0.12	1.19	0.09	0.9	0.07
Lake_Worth_S020	2.7	0.26	2.27	0.19	1.01	0.12	0.85	0.09	0.57	0.07

5.2 TSI 2070 Future Conditions HEC-HMS Model

For the 2070 future conditions basin model, all HMS model parameters will remain the same as were completed for 2020 conditions except for the percent impervious and Snyder's lag times. For the percent impervious, the 2070 impervious data provided by the NCTCOG and EPA ICLUS was used to update the impervious values in the HEC-HMS existing conditions model for future conditions.

The Snyder's lag times were reduced to account for the 2070 future conditions percent urbanization. Regional studies in North Texas have shown that as a watershed is transformed from rural to urban, its Snyder's lag time also decreases. Therefore, reduction ratios were applied to the existing conditions lag times for each subbasin. The reduction ratios, which are based on the percent of urbanization increases, were developed from the Fort Worth District urban studies.

5.2.1 Future Conditions 2070 Percent Imperviousness

The watershed 2070 percent imperviousness was extracted from ArcGIS. The future values are listed in Table 5-4.

Table 5-4. 2070 Future Conditions Percent Imperviousness

Subbasin	2020 % Impervious	2070 % Impervious
West Fork S010	0	1
West Fork S020	0	1
West Fork S030	0	1
West Fork S040	0	1
West Fork S050	0	1
West Fork S060	0	1
West Fork S070	0	1
West Fork S080	0	0

Subbasin	2020 % Impervious	2070 % Impervious
West Fork S090	0	1
West Fork S100	0	1
West Fork S120	1	3
West Fork S110	0	1
Big Cleveland S010	0	2
Big Cleveland S020	1	6
West Fork S130	0	1
Lost Ck S010	4	12
Lost Ck S020	0	3
West Fork S140	1	2
West Fork S150	0	1
West Fork S160	4	12
Beans Ck S010	1	2
Beans Ck S020	2	7
Big Ck S010	0	2
Big Ck S021	1	13
Big Ck S022	2	5
Big Ck S023	2	15
Big Ck S024	11	38
Big Ck S031	2	23
Big Ck S032	2	22
Big Ck S033	2	22
Big Ck S034	2	32
Big Ck S035	2	33
Big Ck S036	1	28
Big Ck S037	10	37
Boons Ck S010	0	7
Boons Ck S020	7	32
Boons Ck S030	3	42
Boons Ck S040	1	4
Boons Ck S050	2	29
Boons Ck S060	2	33
Boons Ck S070	1	4
Boons Ck S080	1	20
Boons Ck S090	7	44
Willow Ck S010	2	13
Willow Ck S020	3	28
Willow Ck S030	2	33

Subbasin	2020 % Impervious	2070 % Impervious
Willow Ck S040	2	31
Willow Ck S050	3	24
Willow Ck S060	4	31
Willow Ck S070	2	29
Willow Ck S080	2	30
Willow Ck S090	4	30
Coal Bed Br S010	2	30
Boons Ck S100	30	55
Jasper Ck S010	1	1
Jasper Ck S020	7	42
Bridgeport S002	61	75
Bridgeport S001	22	44
West Fork S162	5	37
West Fork S161	3	38
West Fork S163	5	34
West Fork S164	2	40
West Fork S165	21	37
West Fork S166	7	39
Dry Ck S010	9	35
Dry Ck S020	21	38
Dry Ck S030	6	21
Dry Ck S040	12	47
Dry Ck S050	2	15
Dry Ck S060	2	28
Dry Ck S070	21	28
Dry Ck S080	8	10
Dry Ck S090	3	9
Dry Ck S100	5	10
Dry Ck S110	12	37
West Fork S171	3	29
West Fork S172	3	41
Amon G Carter S030	8	15
Amon G Carter S010	1	2
Amon G Carter S020	0	1
Big Sandy Ck S010	3	12
Big Sandy Ck S011	1	16
Big Sandy Ck S012	6	25
Big Sandy Ck S013	2	4

Subbasin	2020 % Impervious	2070 % Impervious
Big Sandy Ck S014	3	4
Big Sandy Ck S015	3	28
Big Sandy Ck S016	2	2
Big Sandy Ck S017	4	5
Pringle Ck S010	2	27
Pringle Ck S020	2	30
Pringle Ck S030	2	28
Pringle Ck S040	2	28
Pringle Ck S050	2	9
Pringle Ck S060	1	1
Big Sandy Ck S018	1	3
Brushy Ck S010	4	12
Brushy Ck S021	1	7
Brushy Ck S022	7	8
Brushy Ck S023	0	2
Brushy Ck S024	2	2
Brushy Ck S025	1	5
Brushy Ck S026	4	5
Grapevine Ck S010	1	1
Grapevine Ck S020	2	2
Grapevine Ck S030	2	6
Grapevine Ck S040	2	2
Brushy Ck S027	4	6
Brushy Ck S028	4	8
Brushy Ck S029	5	7
Dry Hollow Br S010	1	3
Dry Hollow Br S020	3	7
Dry Hollow Br S030	3	6
Dry Hollow Br S040	2	6
Dry Hollow Br S050	4	4
Dry Hollow Br S060	2	3
Dry Hollow Br S070	11	17
Dry Hollow Br S080	4	5
Big Sandy Ck S021	2	6
Chicken Ck S010	2	6
Chicken Ck S020	2	4
Chicken Ck S030	2	3
Big Sandy Ck S022	2	2

Subbasin	2020 % Impervious	2070 % Impervious
Big Sandy Ck Trib S010	4	15
Big Sandy Ck Trib S020	22	36
Big Sandy Ck Trib S030	6	9
Big Sandy Ck S023	1	2
Big Sandy Ck S024	7	10
Big Sandy Ck S025	1	4
Mudhole Br S010	2	2
Mudhole Br S020	2	3
Big Sandy Ck S026	5	12
Big Sandy Ck S027	1	29
Big Sandy Ck S028	3	19
Briar Br S010	2	3
Briar Br S020	2	2
Briar Br S030	5	6
Briar Br S040	9	11
Walkers Br S010	2	3
Walkers Br S020	2	5
Walkers Br S030	3	4
Walkers Br S040	7	7
Briar Br S050	3	3
Briar Br S060	3	4
Big Sandy Ck S031	2	3
Big Sandy Ck S032	5	7
Big Sandy Ck S033	2	4
Big Sandy Ck S034	4	5
Watson Br S010	2	2
Watson Br S020	4	10
Watson Br S030	5	7
Watson Br S040	2	2
Twin Pond CK S010	6	26
Twin Pond CK S020	3	6
Watson Br S050	2	6
Big Sandy Ck S035	3	4
Big Sandy Ck S041	5	31
Waggoner Br S010	14	42
Waggoner Br S020	11	37
Waggoner Br S030	5	29
Rosebud Br S010	3	16

Subbasin	2020 % Impervious	2070 % Impervious
Rosebud Br S020	3	11
Rosebud Br S030	3	27
Waggoner Br S040	4	36
Big Sandy Ck S042	3	29
Big Sandy Ck S043	2	34
West Fork S181	3	24
West Fork S182	2	41
West Fork S183	4	32
West Fork S184	6	42
Martin Br S010	25	49
Martin Br S020	3	37
Martin Br S030	3	30
Martin Br S040	2	29
Martin Br S050	6	29
Martin Br S060	2	31
West Fork S185	3	40
West Fork S191	4	43
West Fork S192	3	34
Garrett Ck S001	2	28
Garrett Ck S002	1	32
Garrett Ck S003	1	26
Garrett Ck S004	2	31
Garrett Ck S005	2	28
Garrett Ck S006	2	26
Garrett Ck S007	2	27
Garrett Ck S008	6	29
Rush Ck S010	1	31
Rush Ck S020	2	31
Rush Ck S050	2	34
Rush Ck S030	2	31
Rush Ck S040	3	27
Rush Ck S060	2	33
Rush Ck S070	2	29
Garrett Ck S009	2	27
Garrett Ck S031	3	28
Garrett Ck S032	3	34
Garrett Ck S033	4	29
Salt Ck S001	2	25

Subbasin	2020 % Impervious	2070 % Impervious
Salt Ck S002	2	20
Salt Ck S003	5	35
Salt Ck S004	1	32
Salt Ck S005	2	25
Salt Ck S006	4	25
Salt Ck S007	2	31
Salt Ck S008	2	37
Salt Ck S009	3	25
Gonzollas Ck S010	2	20
Gonzollas Ck S020	2	24
Gonzollas Ck S030	4	33
Salt Ck S011	3	32
Pecan Br S010	2	25
Salt Ck S012	3	31
Salt Ck S013	2	37
Salt Ck S014	2	33
Salt Ck S015	2	35
Salt Ck S016	4	23
Salt Ck S017	3	32
Salt Ck S018	2	26
Cottonwood Ck S010	2	24
Cottonwood Ck S020	3	31
Salt Ck S019	3	31
Salt Ck S021	3	29
Garrett Ck S034	3	38
Salt Ck S022	1	30
West Fork S201	2	40
Lola Ck S010	3	31
Lola Ck S020	3	32
West Fork S202	1	40
West Fork S203	5	38
West Fork S204	3	29
West Fork S205	2	38
West Fork S206	3	31
West Fork S207	4	39
West Fork S208	3	35
Walker Ck S010	4	31
Walker Ck S020	3	38

Subbasin	2020 % Impervious	2070 % Impervious
West Fork S209	5	45
West Fork S211	7	50
Deep Ck S10	2	38
Deep Ck S20	2	37
Deep Ck S30	2	39
West Fork S212	1	35
Blue Ck S10	3	40
Blue Ck S20	8	46
Blue Ck S25	3	44
Blue Ck S40	2	47
Blue Ck S30	2	38
Blue Ck S50	12	48
Blue Ck S60	7	32
West Fork S213	9	51
West Fork S214	9	41
West Fork S215	4	26
Hog Branch S10	2	23
Hog Branch S20	2	26
Hog Branch S30	3	25
Hog Branch S40	5	21
West Fork S216	2	34
West Fork S217	3	28
Dry Fork S10	4	41
Dry Fork S20	3	32
Eagle Mountain S001	6	48
Oates Branch S10	9	46
Oates Branch S30	5	40
Oates Branch S20	14	43
Oates Branch S40	5	37
Oates Branch S50	9	43
Oates Branch S60	7	39
Oates Branch S70	10	46
Eagle Mountain S002	14	46
Eagle Mountain S003	22	45
Derrett Ck S30	6	39
Derrett Ck S40	12	41
Derrett Ck S50	11	37
Derrett Ck S60	15	43

Subbasin	2020 % Impervious	2070 % Impervious
Eagle Mountain S004	49	65
Briar Ck S10	4	37
Briar Ck S20	11	43
Eagle Mountain S005	57	69
Eagle Mountain S006	46	61
Indian Ck S010	13	44
Indian Ck S020	7	38
Indian Ck S030	5	31
Moss Branch S010	5	36
Moss Branch S020	2	40
Indian Ck S040	6	35
Indian Ck S050	28	48
Gilmore Branch S010	4	37
Eagle Mountain S031	38	61
Swift Branch S010	7	41
Walnut Ck S001	6	24
Walnut Ck S002	6	29
Walnut Ck S003	4	24
Walnut Ck S004	5	38
Goshen Ck S010	3	23
Goshen Ck S020	6	38
Walnut Ck S005	11	34
Walnut Ck S006	4	38
Walnut Ck S007	8	40
Walnut Ck S008	21	45
Browders Ck S010	6	32
Browders Ck S020	3	25
Browders Ck S030	13	37
Walnut Ck S009	5	39
Dry Br S010	4	30
Dry Br S020	7	38
Dry Br S030	4	38
Woody Ck S010	3	19
Woody Ck S020	4	29
Woody Ck S030	3	44
Walnut Ck S010	3	20
Walnut Ck S011	1	26
Walnut Ck S012	5	28

Subbasin	2020 % Impervious	2070 % Impervious
Walnut Ck S013	8	42
Walnut Ck S014	3	29
Walnut Ck Trib S010	2	22
Walnut Ck Trib S020	2	26
Walnut Ck Trib S030	4	31
Walnut Ck Trib S040	2	27
Walnut Ck Trib S050	2	24
Walnut Ck Trib S060	3	20
Walnut Ck Trib S070	4	23
Walnut Ck Trib S080	4	25
Walnut Ck S015	2	44
Walnut Ck S016	5	37
Walnut Ck S017	3	40
Walnut Ck S018	4	34
Walnut Ck S019	3	41
Walnut Ck S021	18	53
Cottonwood Br S010	12	41
Cottonwood Br S020	5	42
Walnut Ck S022	3	41
Walnut Ck S023	3	40
Walnut Ck S024	9	42
Walnut Ck S025	12	42
Walnut Ck S026	9	44
Walnut Ck S027	5	42
Walnut Ck S028	12	45
Dosier Ck S010	10	43
Little Dosier Ck S010	8	40
Eagle Mountain S032	48	63
Ash Ck S010	4	23
Ash Ck S020	4	30
Ash Ck S030	5	27
Ash Ck S040	5	29
Ash Ck S050	11	41
Ash Ck S060	17	46
Ash Ck S070	7	37
Ash Ck S080	20	43
Ash Ck S090	10	44
Eagle Mountain S033	41	58

Subbasin	2020 % Impervious	2070 % Impervious
Lake Worth S010	19	50
Silver Ck S010	3	16
Silver Ck S020	2	16
Silver Ck S030	3	31
Silver Ck S040	3	25
Silver Ck S050	5	39
Silver Ck S060	5	29
Silver Ck S070	6	27
Silver Ck S080	3	25
Little Silver Ck S010	4	30
Little Silver Ck S020	5	38
Little Silver Ck S030	1	37
Little Silver Ck S040	3	36
Little Silver Ck S050	8	39
Silver Ck S090	4	32
Silver Ck S100	6	38
Silver Ck S110	7	40
Silver Ck S120	5	35
Silver Ck S130	5	44
Silver Ck S140	3	41
Mill Ck S010	8	32
Mill Ck S020	5	36
Mill Ck S030	7	41
Mill Ck S040	11	41
Silver Ck S150	9	46
Live Oak Ck S010	8	43
Live Oak Ck S020	10	50
Lake Worth S020	43	61

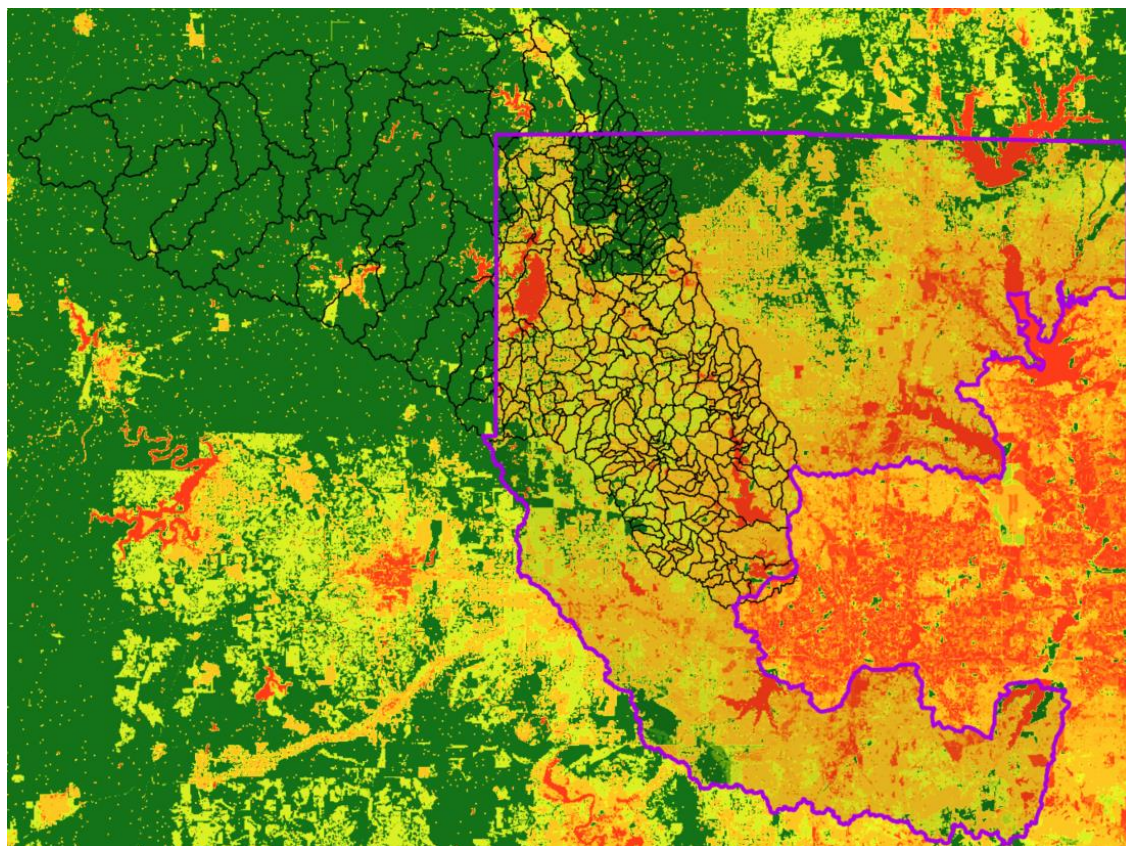


Figure 5-2. Map of Future Conditions 2070 Percent Imperviousness from the combined NCTCOG and EPA dataset

5.2.2 Future Conditions 2070 Lag Times

Estimates of future conditions Lag Times are anticipated to be reduced due to urbanization, where future imperviousness will increase. Future Lag Times are estimated by utilizing a reduction that can be obtained from a Lag Time reduction ratio table, which relates the urbanization percentage to a ratio of lag time over 0% urban lag time. The reduction ratios were based on percent of urbanization increase, which were developed from the Fort Worth District urban studies (Nelson, 1979) (Rodman, 1977) (USACE, 1989).

Table 5-4. Future Conditions Snyder's Lag Times

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
West Fork S010	1	5.50	1	5.50

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
West Fork S020	1	7.20	1	7.20
West Fork S030	1	8.00	1	8.00
West Fork S040	1	6.80	1	6.80
West Fork S050	1	5.80	1	5.80
West Fork S060	1	8.40	1	8.40
West Fork S070	1	6.70	1	6.70
West Fork S080	0	4.00	0	4.00
West Fork S090	1	6.80	1	6.80
West Fork S100	1	6.00	1	6.00
West Fork S120	1	7.80	3	7.73
West Fork S110	1	6.60	1	6.60
Big Cleveland S010	1	7.30	2	7.27
Big Cleveland S020	3	6.70	9	6.52
West Fork S130	1	3.60	1	3.60
Lost Ck S010	8	4.00	18	3.81
Lost Ck S020	1	3.01	4	2.98
West Fork S140	1	3.71	2	3.70
West Fork S150	1	4.20	1	4.20
West Fork S160	5	3.64	13	3.51
Beans Ck S010	1	3.43	3	3.40
Beans Ck S020	3	1.89	8	1.85
Big Ck S010	3	3.92	4	3.91
Big Ck S021	15	1.48	24	1.42
Big Ck S022	15	0.99	15	1.00
Big Ck S023	15	0.73	30	0.67
Big Ck S024	15	1.59	61	1.23
Big Ck S031	31	1.12	47	1.03
Big Ck S032	31	1.63	43	1.53
Big Ck S033	31	1.13	45	1.05
Big Ck S034	31	0.84	63	0.70
Big Ck S035	31	1.04	64	0.86
Big Ck S036	31	0.64	52	0.57
Big Ck S037	31	1.34	58	1.15
Boons Ck S010	16	1.83	16	1.83
Boons Ck S020	16	0.87	62	0.67
Boons Ck S030	16	0.72	59	0.57
Boons Ck S040	16	1.20	16	1.21
Boons Ck S050	16	1.83	56	1.46
Boons Ck S060	16	1.55	62	1.20

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Boons Ck S070	16	1.22	16	1.21
Boons Ck S080	16	1.34	38	1.20
Boons Ck S090	16	1.16	71	0.84
Willow Ck S010	33	0.74	33	0.74
Willow Ck S020	33	0.57	56	0.51
Willow Ck S030	33	0.95	65	0.78
Willow Ck S040	33	0.59	59	0.50
Willow Ck S050	33	1.51	47	1.39
Willow Ck S060	33	0.33	60	0.28
Willow Ck S070	33	0.65	56	0.57
Willow Ck S080	33	1.37	58	1.19
Willow Ck S090	33	1.55	52	1.39
Coal Bed Br S010	33	1.44	58	1.24
Boons Ck S100	33	0.54	72	0.42
Jasper Ck S010	3	3.54	3	3.54
Jasper Ck S020	3	1.05	66	0.74
Bridgeport S002	53	2.12	86	1.70
Bridgeport S001	53	1.48	65	1.37
West Fork S162	39	1.61	78	1.25
West Fork S161	39	1.45	71	1.19
West Fork S163	39	1.22	65	1.05
West Fork S164	39	0.71	77	0.56
West Fork S165	39	1.03	73	0.83
West Fork S166	39	1.47	71	1.21
Dry Ck S010	44	1.24	69	1.06
Dry Ck S020	44	0.36	95	0.25
Dry Ck S030	44	1.11	48	1.08
Dry Ck S040	44	0.56	89	0.41
Dry Ck S050	44	0.48	44	0.48
Dry Ck S060	44	1.03	55	0.96
Dry Ck S070	44	0.83	93	0.60
Dry Ck S080	44	0.46	44	0.45
Dry Ck S090	44	1.09	44	1.09
Dry Ck S100	44	0.84	44	0.84
Dry Ck S110	44	1.09	76	0.89
West Fork S171	34	0.61	59	0.53
West Fork S172	34	0.87	76	0.67
Amon G Carter S030	11	5.20	20	4.97
Amon G Carter S010	1	5.60	3	5.55

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Amon G Carter S020	1	5.30	1	5.30
Big Sandy Ck S010	12	6.96	21	6.66
Big Sandy Ck S011	29	0.86	31	0.86
Big Sandy Ck S012	29	1.57	45	1.44
Big Sandy Ck S013	29	1.86	29	1.86
Big Sandy Ck S014	29	1.96	29	1.96
Big Sandy Ck S015	29	3.42	54	2.97
Big Sandy Ck S016	29	4.44	29	4.44
Big Sandy Ck S017	29	3.92	29	3.93
Pringle Ck S010	29	3.64	52	3.19
Pringle Ck S020	29	3.84	59	3.23
Pringle Ck S030	29	1.84	56	1.58
Pringle Ck S040	29	2.16	55	1.86
Pringle Ck S050	29	1.80	29	1.80
Pringle Ck S060	29	2.17	29	2.18
Big Sandy Ck S018	29	2.27	29	2.27
Brushy Ck S010	7	8.16	22	7.58
Brushy Ck S021	12	5.26	12	5.25
Brushy Ck S022	12	1.50	16	1.47
Brushy Ck S023	12	3.58	12	3.57
Brushy Ck S024	12	2.42	12	2.43
Brushy Ck S025	12	2.27	12	2.27
Brushy Ck S026	12	1.50	12	1.50
Grapevine Ck S010	12	2.81	12	2.81
Grapevine Ck S020	12	1.50	12	1.50
Grapevine Ck S030	12	1.69	20	1.63
Grapevine Ck S040	12	1.79	12	1.79
Brushy Ck S027	12	1.87	14	1.85
Brushy Ck S028	12	2.26	13	2.25
Brushy Ck S029	12	3.80	23	3.61
Dry Hollow Br S010	27	2.09	27	2.08
Dry Hollow Br S020	27	1.66	27	1.66
Dry Hollow Br S030	27	1.08	27	1.08
Dry Hollow Br S040	27	1.67	27	1.66
Dry Hollow Br S050	27	1.33	27	1.33
Dry Hollow Br S060	27	2.06	27	2.07
Dry Hollow Br S070	27	1.66	41	1.53
Dry Hollow Br S080	27	2.35	27	2.35
Big Sandy Ck S021	35	1.36	35	1.35

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Chicken Ck S010	35	1.93	35	1.93
Chicken Ck S020	35	1.56	35	1.56
Chicken Ck S030	35	2.45	35	2.44
Big Sandy Ck S022	35	1.70	35	1.71
Big Sandy Ck Trib S010	35	1.60	35	1.60
Big Sandy Ck Trib S020	35	1.36	72	1.08
Big Sandy Ck Trib S030	35	1.37	35	1.37
Big Sandy Ck S023	35	1.78	35	1.77
Big Sandy Ck S024	35	2.05	35	2.05
Big Sandy Ck S025	35	1.31	35	1.31
Mudhole Br S010	35	2.47	35	2.47
Mudhole Br S020	35	1.92	35	1.92
Big Sandy Ck S026	35	4.96	35	4.96
Big Sandy Ck S027	35	1.49	54	1.33
Big Sandy Ck S028	35	2.34	39	2.29
Briar Br S010	28	2.62	35	2.52
Briar Br S020	28	2.17	35	2.09
Briar Br S030	28	1.15	35	1.11
Briar Br S040	28	1.21	35	1.17
Walkers Br S010	28	2.58	35	2.49
Walkers Br S020	28	1.24	35	1.19
Walkers Br S030	28	1.14	35	1.10
Walkers Br S040	28	1.06	35	1.02
Briar Br S050	28	2.20	28	2.20
Briar Br S060	28	3.05	28	3.05
Big Sandy Ck S031	28	2.68	28	2.68
Big Sandy Ck S032	28	2.30	28	2.30
Big Sandy Ck S033	28	1.87	28	1.87
Big Sandy Ck S034	28	2.78	28	2.78
Watson Br S010	28	2.62	28	2.62
Watson Br S020	28	1.90	28	1.89
Watson Br S030	28	1.86	28	1.86
Watson Br S040	28	1.85	28	1.85
Twin Pond CK S010	28	2.72	52	2.38
Twin Pond CK S020	28	2.42	28	2.42
Watson Br S050	28	1.55	28	1.55
Big Sandy Ck S035	28	2.36	28	2.36
Big Sandy Ck S041	33	0.99	63	0.83
Waggoner Br S010	33	0.88	80	0.65

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Waggoner Br S020	33	0.86	75	0.66
Waggoner Br S030	33	0.92	74	0.71
Rosebud Br S010	33	0.46	64	0.38
Rosebud Br S020	33	0.36	44	0.34
Rosebud Br S030	33	0.45	68	0.36
Waggoner Br S040	33	1.09	75	0.84
Big Sandy Ck S042	33	0.89	72	0.70
Big Sandy Ck S043	33	1.24	68	1.00
West Fork S181	42	0.99	66	0.85
West Fork S182	42	0.86	73	0.71
West Fork S183	42	0.66	65	0.57
West Fork S184	42	1.37	83	1.05
Martin Br S010	42	0.95	80	0.75
Martin Br S020	42	0.62	75	0.51
Martin Br S030	42	0.76	63	0.67
Martin Br S040	42	0.41	58	0.37
Martin Br S050	42	0.88	72	0.73
Martin Br S060	42	1.18	71	0.98
West Fork S185	42	0.49	76	0.40
West Fork S191	31	1.20	74	0.93
West Fork S192	31	1.10	64	0.90
Garrett Ck S001	26	0.64	55	0.55
Garrett Ck S002	26	0.58	62	0.47
Garrett Ck S003	26	0.61	50	0.53
Garrett Ck S004	26	0.37	60	0.30
Garrett Ck S005	26	1.16	55	0.98
Garrett Ck S006	26	0.45	53	0.39
Garrett Ck S007	26	0.99	54	0.84
Garrett Ck S008	26	1.26	63	1.01
Rush Ck S010	26	1.20	60	0.99
Rush Ck S020	26	0.61	61	0.50
Rush Ck S050	26	0.42	66	0.33
Rush Ck S030	26	0.94	60	0.77
Rush Ck S040	26	0.51	54	0.43
Rush Ck S060	26	0.57	64	0.46
Rush Ck S070	26	0.83	57	0.69
Garrett Ck S009	26	0.69	57	0.58
Garrett Ck S031	32	0.95	59	0.81
Garrett Ck S032	32	0.70	66	0.57

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Garrett Ck S033	31	1.32	61	1.11
Salt Ck S001	33	0.68	48	0.62
Salt Ck S002	33	0.33	41	0.31
Salt Ck S003	33	0.82	69	0.66
Salt Ck S004	33	0.23	59	0.20
Salt Ck S005	33	0.97	52	0.87
Salt Ck S006	33	1.26	58	1.09
Salt Ck S007	33	0.48	61	0.41
Salt Ck S008	33	1.12	71	0.88
Salt Ck S009	33	1.20	51	1.08
Gonzollas Ck S010	33	0.95	42	0.90
Gonzollas Ck S020	33	1.04	51	0.93
Gonzollas Ck S030	33	0.59	66	0.48
Salt Ck S011	27	1.04	66	0.82
Pecan Br S010	27	1.48	51	1.29
Salt Ck S012	27	0.49	62	0.39
Salt Ck S013	27	1.03	71	0.80
Salt Ck S014	27	0.72	62	0.59
Salt Ck S015	27	0.58	66	0.46
Salt Ck S016	27	0.58	55	0.49
Salt Ck S017	27	0.69	62	0.56
Salt Ck S018	27	1.37	53	1.18
Cottonwood Ck S010	27	0.49	48	0.44
Cottonwood Ck S020	27	1.29	62	1.05
Salt Ck S019	27	1.27	61	1.04
Salt Ck S021	31	0.96	59	0.81
Garrett Ck S034	31	1.29	69	1.03
Salt Ck S022	31	1.54	56	1.33
West Fork S201	35	0.79	75	0.61
Lola Ck S010	35	0.97	61	0.83
Lola Ck S020	35	1.66	63	1.41
West Fork S202	35	0.54	75	0.42
West Fork S203	35	1.15	72	0.92
West Fork S204	35	1.00	58	0.87
West Fork S205	35	0.80	75	0.62
West Fork S206	35	0.63	64	0.53
West Fork S207	35	0.28	75	0.22
West Fork S208	35	0.66	67	0.55
Walker Ck S010	35	0.84	62	0.72

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Walker Ck S020	35	0.66	71	0.53
West Fork S209	35	0.87	72	0.70
West Fork S211	33	1.75	76	1.34
Deep Ck S10	33	1.17	73	0.92
Deep Ck S20	33	1.46	75	1.13
Deep Ck S30	33	1.19	75	0.92
West Fork S212	33	1.00	69	0.81
Blue Ck S10	33	1.76	75	1.36
Blue Ck S20	33	1.32	85	0.95
Blue Ck S25	33	0.97	86	0.69
Blue Ck S40	33	1.09	83	0.79
Blue Ck S30	33	1.85	78	1.40
Blue Ck S50	33	0.46	82	0.34
Blue Ck S60	33	1.34	63	1.12
West Fork S213	33	0.95	84	0.69
West Fork S214	33	1.88	77	1.43
West Fork S215	33	1.35	52	1.21
Hog Branch S10	33	0.77	46	0.72
Hog Branch S20	33	1.18	52	1.06
Hog Brach S30	33	1.41	54	1.25
Hog Branch S40	33	0.43	47	0.40
West Fork S216	33	1.17	63	0.98
West Fork S217	33	0.70	56	0.61
Dry Fork S10	39	0.69	82	0.52
Dry Fork S20	39	0.82	76	0.65
Eagle Mountain S001	39	2.57	78	2.01
Oates Branch S10	39	1.15	87	0.84
Oates Brannch S30	39	1.41	84	1.06
Oates Branch S20	39	0.60	87	0.44
Oates Branch S40	39	1.05	81	0.81
Oates Branch S50	39	0.86	82	0.66
Oates Branch S60	39	1.68	83	1.27
Oates Branch S70	39	0.79	81	0.60
Eagle Mountain S002	39	1.79	83	1.35
Eagle Mountain S003	39	1.30	81	0.99
Derrett Ck S30	39	1.50	85	1.12
Derrett Ck S40	39	0.35	84	0.26
Derrett Ck S50	39	0.88	76	0.70
Derrett Ck S60	39	1.03	80	0.79

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Eagle Mountain S004	39	1.21	89	0.87
Briar Ck S10	39	1.30	77	1.02
Briar Ck S20	39	1.23	81	0.94
Eagle Mountain S005	39	0.57	87	0.41
Eagle Mountain S006	39	0.73	80	0.56
Indian Ck S010	25	1.71	79	1.23
Indian Ck S020	25	1.63	81	1.16
Indian Ck S030	25	1.42	65	1.12
Moss Branch S010	25	1.66	74	1.24
Moss Branch S020	25	1.02	65	0.81
Indian Ck S040	25	1.57	67	1.23
Indian Ck S050	25	1.61	68	1.25
Gilmore Branch S010	47	1.30	73	1.11
Eagle Mountain S031	47	0.83	87	0.64
Swift Branch S010	47	0.65	81	0.52
Walnut Ck S001	46	0.81	53	0.78
Walnut Ck S002	46	0.65	62	0.59
Walnut Ck S003	46	1.06	50	1.03
Walnut Ck S004	46	1.19	73	1.01
Goshen Ck S010	46	1.21	47	1.20
Goshen Ck S020	46	0.92	75	0.77
Walnut Ck S005	46	1.13	70	0.97
Walnut Ck S006	46	1.22	74	1.02
Walnut Ck S007	46	0.46	78	0.37
Walnut Ck S008	46	1.08	82	0.85
Browders Ck S010	46	0.64	64	0.57
Browders Ck S020	46	1.56	50	1.53
Browders Ck S030	46	0.81	69	0.70
Walnut Ck S009	46	1.30	70	1.12
Dry Br S010	46	1.19	61	1.09
Dry Br S020	46	1.38	71	1.18
Dry Br S030	46	0.91	72	0.77
Woody Ck S010	44	1.20	44	1.20
Woody Ck S020	44	1.70	58	1.56
Woody Ck S030	44	0.88	68	0.76
Walnut Ck S010	46	0.41	46	0.41
Walnut Ck S011	44	0.50	51	0.48
Walnut Ck S012	44	1.28	56	1.19
Walnut Ck S013	44	0.85	71	0.72

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Walnut Ck S014	44	0.71	57	0.66
Walnut Ck Trib S010	44	0.98	45	0.98
Walnut Ck Trib S020	44	0.49	50	0.47
Walnut Ck Trib S030	44	1.13	62	1.02
Walnut Ck Trib S040	44	0.58	51	0.56
Walnut Ck Trib S050	44	0.70	49	0.68
Walnut Ck Trib S060	44	1.05	45	1.05
Walnut Ck Trib S070	44	0.47	49	0.46
Walnut Ck Trib S080	44	1.12	53	1.06
Walnut Ck S015	44	0.28	81	0.22
Walnut Ck S016	44	1.23	72	1.03
Walnut Ck S017	44	0.98	76	0.80
Walnut Ck S018	44	1.04	67	0.90
Walnut Ck S019	44	0.75	79	0.60
Walnut Ck S021	44	0.38	83	0.30
Cottonwood Br S010	44	0.64	80	0.51
Cottonwood Br S020	44	1.28	78	1.03
Walnut Ck S022	44	0.75	75	0.62
Walnut Ck S023	44	0.94	78	0.76
Walnut Ck S024	44	0.59	81	0.47
Walnut Ck S025	44	1.25	72	1.05
Walnut Ck S026	44	1.26	76	1.03
Walnut Ck S027	44	0.95	76	0.78
Walnut Ck S028	44	0.79	81	0.62
Dosier Ck S010	47	1.17	76	0.97
Little Dosier Ck S010	47	0.99	74	0.83
Eagle Mountain S032	47	2.36	84	1.85
Ash Ck S010	51	0.85	51	0.85
Ash Ck S020	51	0.97	62	0.91
Ash Ck S030	51	1.32	56	1.28
Ash Ck S040	51	1.04	63	0.97
Ash Ck S050	51	1.64	80	1.35
Ash Ck S060	51	0.99	86	0.78
Ash Ck S070	51	0.90	73	0.78
Ash Ck S080	51	0.67	74	0.58
Ash Ck S090	51	0.70	83	0.56
Eagle Mountain S033	47	1.07	85	0.83
Lake Worth S010	40	5.85	78	4.60
Silver Ck S010	37	2.21	40	2.17

Subbasin Name	Existing 2020 Pct Urban	Existing Lag Time (hrs)	Future 2070 Pct Urban	Future 2070 Lag Time (hr)
Silver Ck S020	37	2.80	37	2.80
Silver Ck S030	37	3.03	73	2.43
Silver Ck S040	37	1.96	67	1.64
Silver Ck S050	37	2.70	78	2.10
Silver Ck S060	37	1.81	66	1.52
Silver Ck S070	37	2.07	76	1.62
Silver Ck S080	37	1.01	69	0.83
Little Silver Ck S010	37	1.89	79	1.45
Little Silver Ck S020	37	2.34	80	1.79
Little Silver Ck S030	37	2.46	79	1.89
Little Silver Ck S040	37	1.82	75	1.44
Little Silver Ck S050	37	1.79	79	1.38
Silver Ck S090	37	2.51	78	1.94
Silver Ck S100	39	2.41	79	1.87
Silver Ck S110	39	3.07	80	2.37
Silver Ck S120	39	1.89	71	1.55
Silver Ck S130	39	1.95	82	1.49
Silver Ck S140	39	1.87	79	1.45
Mill Ck S010	39	2.11	80	1.63
Mill Ck S020	39	1.35	86	1.00
Mill Ck S030	39	2.18	82	1.66
Mill Ck S040	39	1.92	79	1.49
Silver Ck S150	39	1.86	82	1.41
Live Oak Ck S010	39	2.67	80	2.06
Live Oak Ck S020	39	2.04	80	1.58
Lake Worth S020	62	4.29	78	3.85

5.2.3 Future Conditions 2070 Loss Rates

The same loss rates will be for 2070 conditions as were used for 2020 conditions.

5.2.4 Future Conditions 2070 Routing

To update the HEC-HMS routing parameters for future conditions, the model was revised to reflect floodway encroachments consistent with FEMA's 100-year floodway surcharge criterion

of no more than a one-foot increase from surrounding development. Percent changes between existing and future hydraulic conditions were derived from a series of HEC-RAS models, which identified approximately five percent of river reaches within the TSI West shapefile that required direct routing parameter updates. For the remaining ninety-five percent of reaches, storage-reduction factors were estimated based on the 100-year flow. The average reduction in storage observed in the existing-versus-future HEC-RAS results was applied across three flow-based categories: small (100–5,000 cfs), medium (5,000–13,000 cfs), and large (13,000–45,000 cfs) flow regimes. Reaches with flows exceeding 45,000 cfs incorporated reduction factors from the Eagle Mountain pilot study, which provides representative scaling for high magnitude flows along the West Fork Trinity River’s main stem. All reduction-factor curves were developed to converge toward maximum reductions at the 100-year event, ensuring consistent representation of future floodway encroachments across the watershed.

Figure 5-1 shows the HEC-HMS watershed delineation. The tan region represents the area expected to have the most development and where the routing was updated for future conditions. The lite green area has the existing routing from the 2020 HEC-HMS model. It is assumed these subbasins will not see the same level of development as the tan region.

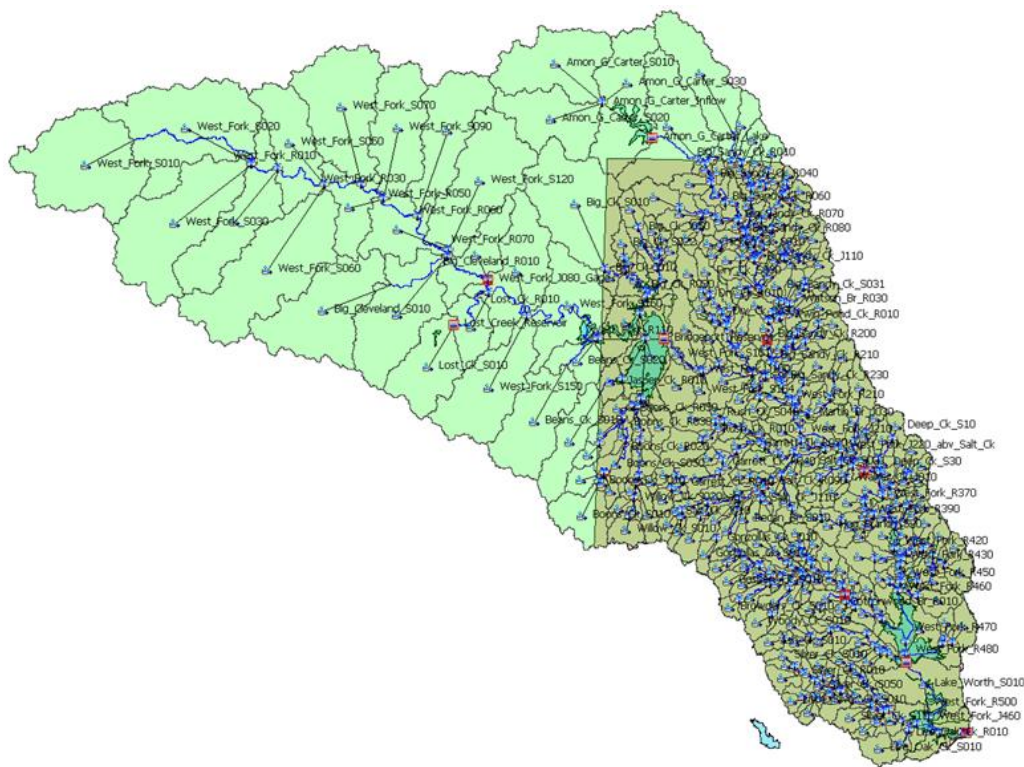


Figure 5-1 Watershed Delineation with updated Routing Region for Future Conditions

To determine where in the curves the largest reduction factor needed to be placed, the existing reduction curves from the hydraulic modeling were assessed. It was found that the largest encroachment occurred around the 100-year return interval. Figure 5-2, shows the 10 reaches with their associated reduction factors. The zero value indicated the 100-year return intervals

peak flows associated with the reduction factor. On average, the maximum amount lined up with the 100-year interval. Two reaches showed that the development peaked beyond the 100-year mark. These were not used for the final reduction curves, Live Oak Creek R010 and Walnut Creek R050.

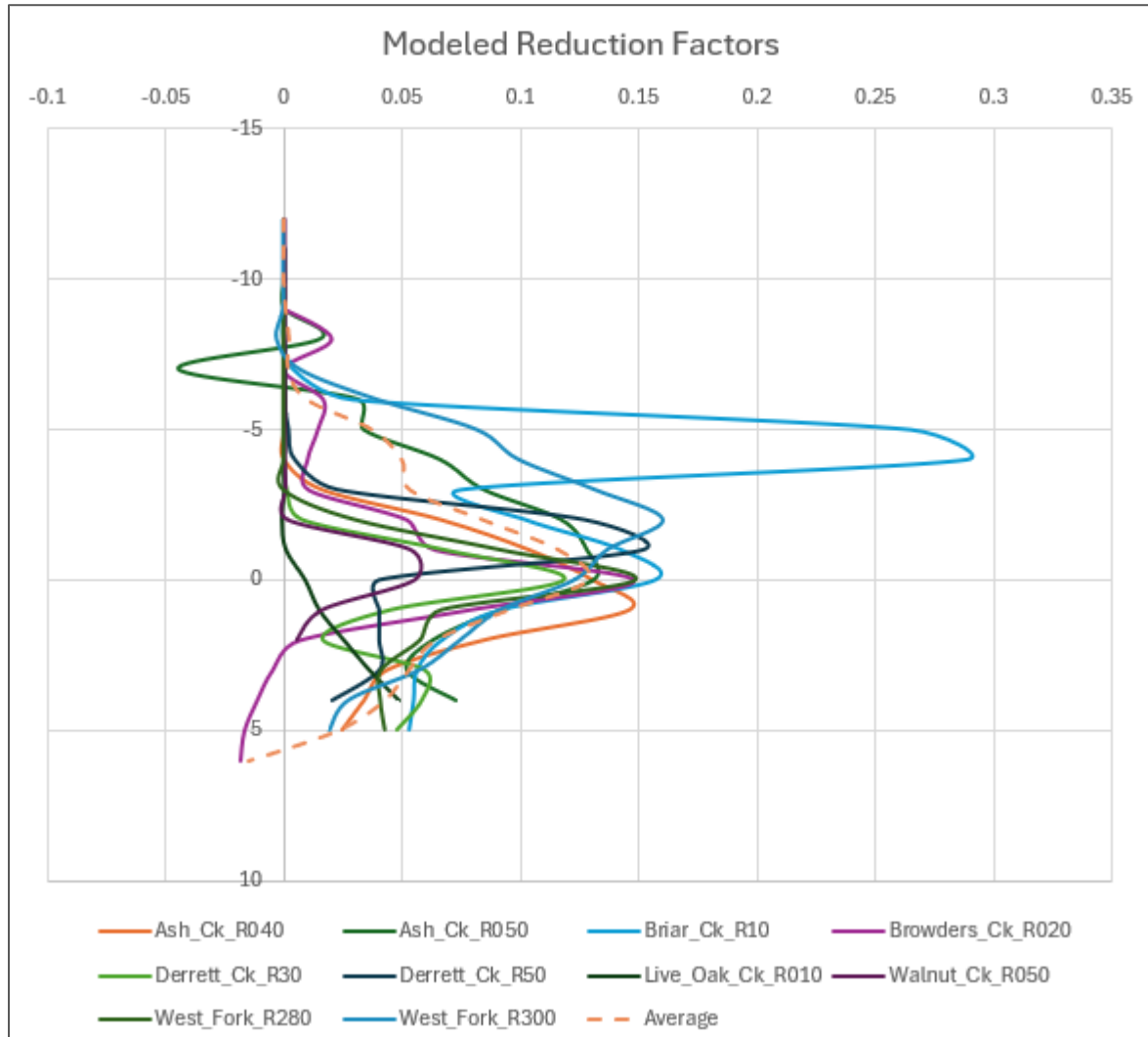


Figure 5-2 Model Reduction Factors from the HEC-RAS Models Overlayed on the 100-Year Interval

The final reduction factors were sorted and averaged by flow type; small, medium, and large flows that were developed from the hydraulic models. Any flow greater than 45,000, used the Eagle Mountain pilot study reduction factors (EM-Pilot), as seen in Table 5-. These reduction curves were then applied to the developed region within the TSI West study area.

Table 5-5 Area Reduction Flow Curves

Small	100-5,000
Medium	5,000-13,000
Large	13,000-45,000
EM-Pilot	Greater than 45,000

	Small Average	Medium Average	Large Average	EM-Pilot Curve
				0%
				0%
				0%
				1%
	0%	0%	0%	1%
	0%	0%	0%	2%
	0%	0%	0%	4%
	2%	0%	0%	8%
	1%	1%	2%	11%
	3%	2%	4%	13%
	6%	4%	6%	15%
	10%	6%	8%	18%
	13%	6%	11%	29%
	17%	10%	12%	25%
100-Year Flows	19%	14%	13%	33%
	16%	6%	11%	29%
	11%	4%	7%	27%
	8%	4%	5%	23%
	5%	4%	4%	20%
	1%	3%	4%	18%
	1%	3%	4%	17%
	1%			11%
				5%
				5%

To average the storage reduction factors, the curved were converged toward the 100-year return interval and averaged to create a final reduction curve to use on each flow regime. The tables below provide each of the area reduction curve for the small, medium and large developed curve, Table 5- through Table 5-. For the medium averaged curve, the Brier Creek model had

inconsistent values leading up to the 100-year event. This was later smoothed out of the final curve, as seen in Table 5-, for the 6th value on the list (row -5).

Table 5-6 Averaged Area Reduction Factor for Small Flows

100-Year Peak Flow		2,000	3,000	3,000	3,691	Small
Model	Row#	STREAM WF-7A	STREAM WF-7	PASCHAL BRANCH	Moss Branch	Average
	-10	0%	0%	0%	0%	0%
	-9	0%	0%	1%	0%	0%
	-8	0%	0%	0%	0%	0%
	-7	5%	0%	1%	0%	2%
	-6	0%	2%	0%	1%	1%
	-5	6%	4%	-2%	5%	3%
	-4	6%	7%	2%	8%	6%
	-3	11%	12%	4%	14%	10%
	-2	12%	12%	10%	19%	13%
	-1	13%	17%	15%	24%	17%
100-Year Flows	0	15%	17%	17%	26%	19%
	1	15%	13%	15%	22%	16%
	2	2%	12%	11%	20%	11%
	3	2%	3%	9%	17%	8%
	4	0%	3%	6%	13%	5%
	5	0%	2%	2%		1%
	6	0%				0%
	7	0%				0%

Table 5-7 Averaged Area Reduction Factor for Medium Flows

100-Year Peak Flow		5,356	5,523	6,573	7,973	8,005	Medium
Model	Row#	Derrett_Ck_R30	Derrett_Ck_R50	Browders_Ck_R020	West_Fork_R280	Briar_Ck_R10	Average
	-10	0%	0%	0%	0%	0%	0%
	-9	0%	0%	0%	0%	0%	0%
	-8	0%	0%	2%	0%	0%	0%
	-7	0%	0%	0%	0%	0%	0%
	-6	0%	0%	2%	0%	3%	1%
	-5	0%	0%	1%	0%	27%	2%
	-4	0%	0%	1%	0%	29%	4%
	-3	0%	0%	1%	0%	8%	6%
	-2	1%	2%	5%	3%	10%	6%
	-1	7%	13%	6%	9%	14%	10%
100-Year Flows	0	12%	15%	15%	15%	16%	14%
	1	5%	4%	8%	7%	9%	6%
	2	2%	4%	1%	6%	7%	4%
	3	6%	4%	0%	4%	6%	4%
	4	6%	4%	0%	4%	5%	4%
	5	5%	2%	0%	4%	5%	3%
	6			0%			0%

Table 5-8 Averaged Area Reduction Factor for Large Flows

TSI HEC-HMS Modeling for the West Fork of the Trinity River June 2026

100-Year Peak Flow		13,319	14,087	17,210	Large
Model	Row#	Ash_Ck_R040	Ash_Ck_R050	West_Fork_R300	Average
	-10	0%	0%	0%	0%
	-9	0%	0%	0%	0%
	-8	0%	2%	0%	0%
	-7	0%	-4%	1%	0%
	-6	0%	3%	4%	2%
	-5	0%	3%	8%	4%
	-4	0%	7%	10%	6%
	-3	2%	8%	13%	8%
	-2	7%	12%	16%	11%
	-1	10%	13%	14%	12%
100-Year Flows	0	13%	13%	12%	13%
	1	15%	9%	9%	11%
	2	9%	6%	7%	7%
	3	4%	5%	6%	5%
	4	3%	7%	3%	4%
	5	2%		2%	1%

Below you will find an example for each curve that was applied to the reaches that did not have hydraulic modeling. To carry the floodway encroachment effects to the upper end of the curve, a single value was carried through to the end (1,3,4, and 5 percent were used for the low, medium, high, and EM-Pilot curves respectively) as seen below.

1,570	500-Year Flow	Low Flow	
1,227	100-Year Flow		
Big_Sandy_Ck_R030			
Flow (cfs)	Existing Storage (Acre-ft)	Reduction Factor	Encroached Storage (Acre-ft)
0	0.00	1%	-
100	2.33	3%	2.26
200	4.28	6%	4.03
300	6.47	10%	5.81
500	11.61	13%	10.09
700	16.20	17%	13.38
1,000	22.24	19%	18.11
1,500	30.73	16%	25.78
2,000	38.38	11%	33.98
2,500	45.58	8%	42.10
3,000	52.24	5%	49.39
3,500	58.94	1%	58.24
4,000	64.83	1%	64.07
5,000	75.90	1%	75.00
6,000	86.56	1%	85.54
7,000	97.08	1%	95.94
8,000	107.09	1%	105.83
10,000	127.32	1%	125.82

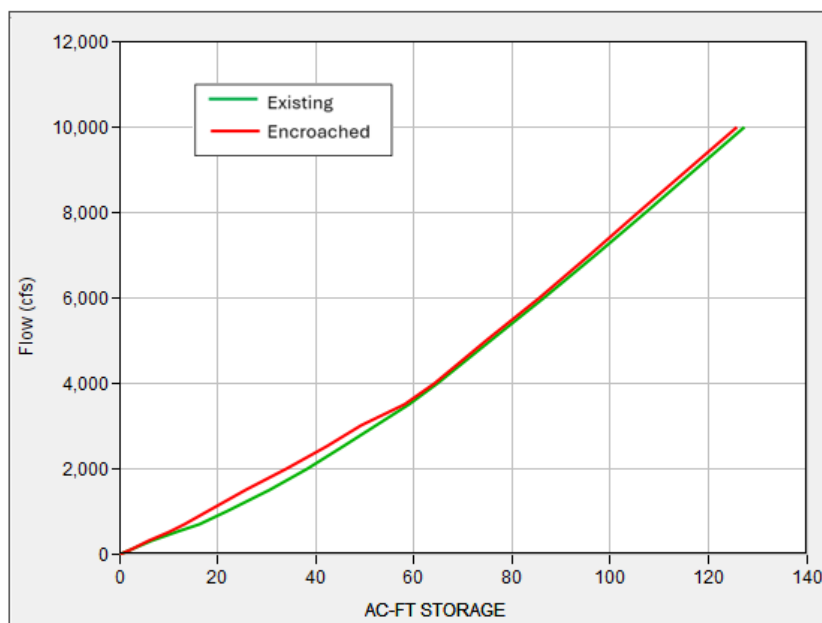


Figure 5-3. Encroached Routing Example for Small Flow Range.

7,084	500-Year Flow	Medium Flow	
5,560	100-Year Flow		
Big_Ck_R050			
Flow (cfs)	Existing	Reduction	Encroached
	Storage (Acre-ft)		
0	0	0%	-
100	6.2421	0%	6.22
500	24.718	0%	24.70
1,000	46.72	1%	46.29
2,000	86.484	2%	84.75
3,000	121.98	4%	117.10
4,000	153.96	6%	144.72
5,000	185.95	6%	174.79
6,000	218.15	10%	196.67
7,000	248.16	14%	212.25
8,000	279.58	6%	261.61
9,000	310.89	4%	299.20
10,000	334.42	4%	321.56
11,000	357.77	4%	343.87
12,000	380.23	3%	367.78
13,000	403.29	3%	390.09
14,000	425.56	3%	411.63
15,000	447.51	3%	432.86
16,000	469.99	3%	454.60
17,000	491.33	3%	475.24
18,000	513.23	3%	496.43
19,000	525.49	3%	508.29
20,000	544.82	3%	526.98

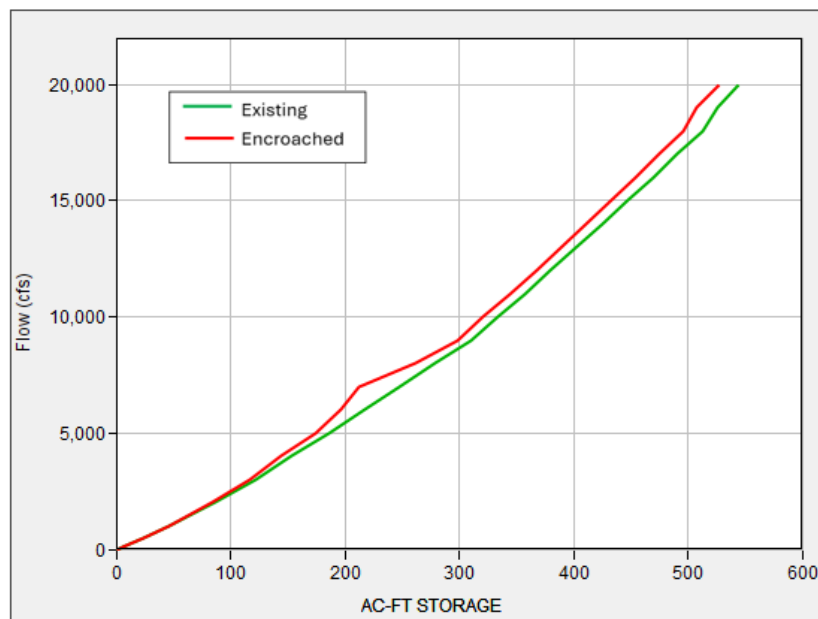


Figure 5-4. Encroached Routing Example for Medium Flow Range.

15,534	500-Year Flow	Large Flow	
11,277	100-Year Flow		
Big_Ck_R070			
Flow (cfs)	Existing		Encroached
	Storage (Acre-ft)	Reduction Factor	Storage (Acre-ft)
0	0	0	-
100	115.53	0	115.53
500	262.48	0	262.48
1,000	379.28	0%	379.28
2,000	569.24	0%	569.19
3,000	738.75	0%	735.64
4,000	882.58	0%	882.58
5,000	1,028.00	2%	1,003.76
6,000	1,149.10	4%	1,105.11
7,000	1,263.70	6%	1,194.18
8,000	1,371.50	8%	1,265.56
9,000	1,479.70	11%	1,310.31
10,000	1,577.40	12%	1,383.83
11,000	1,674.00	13%	1,459.66
12,000	1,767.80	11%	1,573.73
13,000	1,857.70	7%	1,719.74
14,000	1,947.20	5%	1,847.74
15,000	2,030.10	4%	1,939.07
16,000	2,111.10	4%	2,016.44
17,000	2,191.40	4%	2,093.14
18,000	2,269.30	4%	2,167.55
19,000	2,345.10	4%	2,239.95
20,000	2,418.40	4%	2,309.96
21,000	2,490.40	4%	2,378.73
22,000	2,561.60	4%	2,446.74
23,000	2,630.90	4%	2,512.93
25,000	2,766.00	4%	2,641.98
30,000	3,090.10	4%	2,951.54

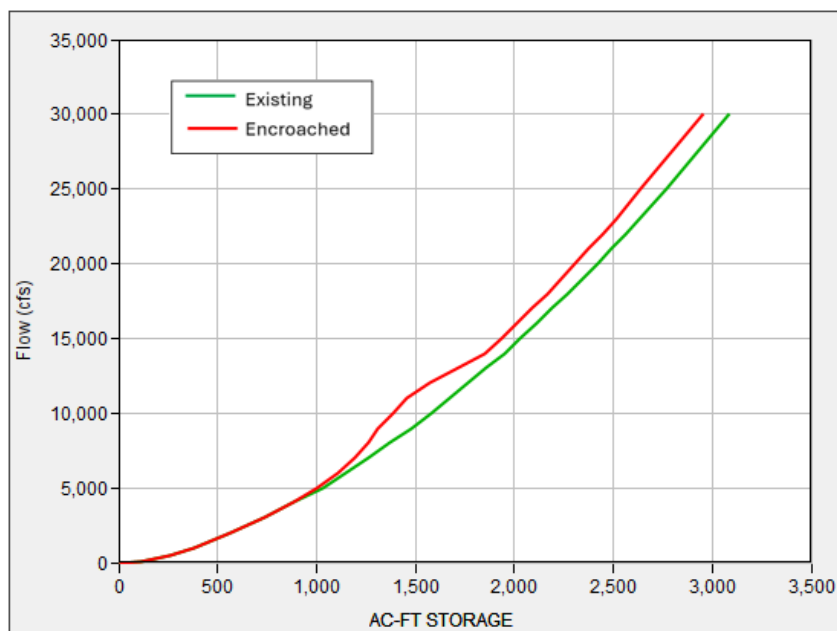


Figure 5-5. Encroached Routing Example for Large Flow Range.

94,314	500-Year Flow	EM-Pilot	
60,269	100-Year Flow		
West_Fork_R250			
0	0.00		-
10	11.00		11.00
50	29.00		29.00
100	46.00		46.00
200	76.00		76.00
250	92.00		92.00
500	165.00	0%	165.00
1,000	341.00	0%	341.00
2,000	707.00	0%	707.00
4,000	1885.00	1%	1,873.68
7,000	3634.00	1%	3,597.67
10,000	4808.00	2%	4,712.02
15,000	6322.00	4%	6,069.08
20,000	7846.00	8%	7,218.55
25,000	9227.00	11%	8,211.88
30,000	10574.00	13%	9,174.18
35,000	11781.00	15%	10,036.47
40,000	13104.00	18%	10,741.05
45,000	14093.00	20%	11,274.40
50,000	15213.00	23%	11,714.01
55,000	16322.00	25%	12,241.50
60,000	17424.00	26%	12,893.76
65,000	18800.00	27%	13,635.97
80,000	22009.00	23%	16,946.99
100,000	26147.00	20%	20,917.49
133,000	32660.00	18%	26,942.69
166,000	38796.00	17%	32,380.56
200,000	44648.00	11%	39,736.72
233,000	50004.00	7%	46,503.72
266,000	55268.00	5%	52,504.60
300,000	60710.00	5%	57,674.50

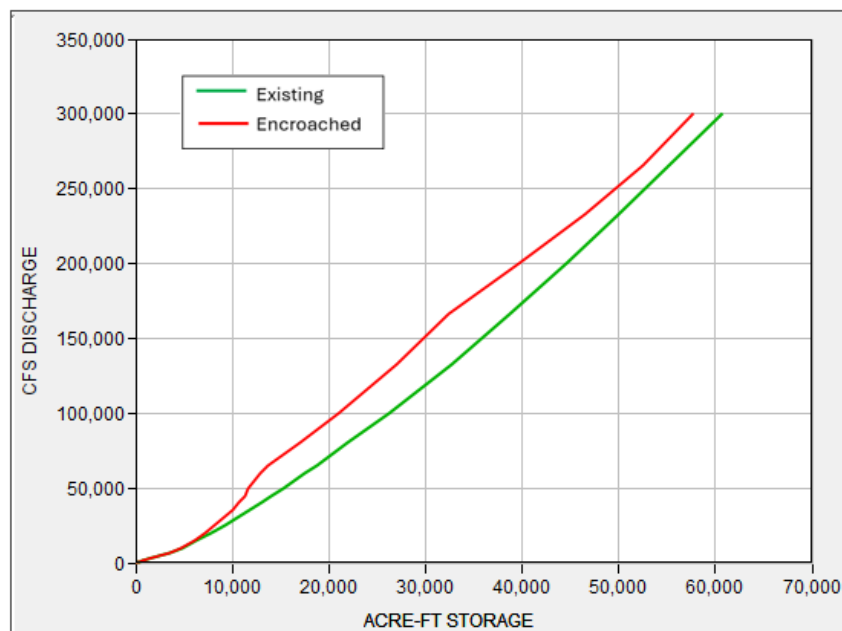


Figure 5-56. Encroached Routing Example for the West Fork.

6 Final HEC-HMS Results

Five discharge frequency results for the 2020, and 2070 (existing and future conditions) are illustrated in the following sections.

6.1 Frequency Storms

The WHA study uniform storms NOAA14 precipitation depths were applied to the entire watershed. For this study, The WHA West Fork of the Trinity River S010 subbasin had the same precipitation depths with a 2-day duration. The 1%ACE (100-year) 2016 existing conditions simulation run utilized an area reduction of 54.161 square miles, but all other simulated future conditions' frequencies were not reduced to provide more conservative answers. Due to the relatively small size of the West Fork of the Trinity River Basin, no hydrograph shifting was required. Five frequencies were generated for this study: 50% ACE (2-year), 10% ACE (10-year), 2% ACE (50-year), 1%ACE (100-year), and 0.2% ACE (500-year).

6.2 Frequency Discharge Results for Existing 2020 Conditions

Table 6-1 and 6-2 illustrate the 2020 future conditions discharge frequency peaks for the West Fork of the Trinity River Watershed. The flows in the “without NRCS losses” table are used to determine inflows for NRCS dams, while the flows in the “with NRCS losses” table are used to determine flows downstream of the NRCS dams.

Table 6-1. Summary of Existing 2020 Conditions Discharges for the West Fork of the Trinity River without NRCS losses

Hydrologic Element	Draianage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork S010	60.5	3972	13491	24107	29378	41358
West Fork R010	60.5	708	3349	8011	11144	18781
West Fork S020	67.8	3535	12012	21298	26255	37420
West Fork abv BrushyCk	128.2	3548	12045	21405	26448	38049
West Fork S030	62.3	2780	9828	17442	21563	30357
West Fork J010	190.5	6299	21771	38687	47835	68250
West Fork R020	190.5	4560	18425	34538	43452	62785
West Fork S040	40.5	2182	7513	13143	16113	22442
West Fork J020	231.0	5973	24063	45197	56805	81484
West Fork R030	231.0	3062	14951	33416	45073	70310
West Fork S050	32.0	2407	7184	12244	14900	20333
West Fork abv CameronCk	263.0	3136	15712	35902	49159	77336
West Fork S060	69.1	3625	10829	19100	23700	33065
West Fork J030	332.1	5839	20260	47402	65327	102673

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork R040	332.1	3855	18765	43652	60113	96717
West Fork S070	50.4	2928	9611	16731	20551	29164
West Fork J040	382.5	5096	20443	48035	66512	108286
West Fork R050	382.5	4319	20069	46784	64453	105714
West Fork S080	19.5	2076	5957	9751	11680	15668
West Fork abv TurkeyCk	402.0	4360	20187	47104	65045	107488
West Fork S090	37.1	2249	6948	12055	14797	20407
West Fork J050	439.1	4699	21309	49907	69236	115424
West Fork R060	439.1	4391	19499	46587	65380	110659
West Fork S100	37.7	2776	8109	13628	16626	22763
West Fork J060	476.8	4450	19691	47503	67006	115012
West Fork R070	476.8	3700	16593	39100	55982	96097
West Fork S120	50.1	2044	5390	13446	16639	23192
West Fork S110	22.3	1271	4048	7020	8618	11899
WestFork abv Big Cleveland	549.3	3729	16749	40134	57885	100739
Big Cleveland S010	51.3	1774	3413	14552	17965	24963
Big Cleveland R010	51.3	1425	2685	12171	15523	22518
Big Cleveland S020	47.3	2257	6053	14263	17527	24237
Big Cleveland abv WestFork	98.6	3022	7359	21668	28074	41358
West Fork J070	647.9	6703	17536	42804	62714	111037
West Fork R080	647.9	3667	16152	40744	59605	106352
West Fork S130	20.9	2280	6518	10464	12518	16779
West Fork J080 Gage	668.8	3689	16232	40905	59810	106654
West Fork R090	668.8	3674	16079	40393	59024	105461
WestFork abv Lost Ck	668.8	3674	16079	40393	59024	105461
Lost Ck S010	28.8	1855	6846	11283	13602	18439
Lost Creek Reservoir	28.8	305	2051	7998	11019	17027
Lost Ck R010	28.8	293	1688	4790	7121	11784
Lost Ck S020	13.5	348	5558	8695	10280	13597
Lost Ck abv WestFork	42.3	363	5574	8713	10304	13734
West Fork + Lost Ck	711.1	3833	16926	41583	60667	108896
West Fork R100	711.1	3771	16247	40225	58569	104939
West Fork S140	39.5	267	11517	21574	25719	34323
West Fork abv CarrollCk	750.6	3774	16428	40649	59112	105747
West Fork S150	41.3	718	12388	20378	24440	32823
West Fork J090	791.9	3783	24931	43298	59643	106538
West Fork R110	791.9	3742	16320	40501	58765	104636
West Fork S160	35.7	898	12331	19845	23602	31435
WestFork abv Beans Ck	827.6	3754	16537	40959	59358	105524

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Beans Ck S010	35.7	714	12871	20699	24596	32711
Beans Ck R010	35.7	537	9928	17742	21208	29130
Beans Ck S020	11.3	384	6840	10338	12002	15601
Beans Ck abv WestFork	47.0	628	11710	21433	25901	35847
West Fork + Beans Ck	874.6	3769	24217	42121	60324	106962
Big Ck S010	50.6	455	16116	26409	31575	42264
Big Ck J010	50.6	455	16116	26409	31575	42264
Big Ck R010	50.6	413	15133	25102	30213	40554
Big Ck S021	3.2	191	2453	3554	4058	5179
Big Ck J030 Abv	53.8	428	15414	25748	31063	41773
Big Ck S022	3.6	327	3760	5307	6001	7567
Big Ck J020	3.6	327	3760	5307	6001	7567
Big Ck R020	3.6	227	2923	4283	4912	6281
Big Ck S023	1.1	127	1433	1992	2240	2803
Big Ck J030 blw	58.5	570	15853	26649	32255	43478
Big Ck R030	58.5	464	15100	25610	31145	42086
Big Ck S024	5.7	595	4285	6192	7065	9017
Big Ck J040	64.2	838	15470	26523	32391	43891
Big Ck S031	4.4	274	4178	5912	6705	8493
Big Ck J050	4.4	274	4178	5912	6705	8493
Big Ck R040	4.4	79	1695	2726	3272	4447
Big Ck S032	4.3	196	3076	4459	5106	6540
Big Ck J100 abv	8.6	232	4099	6203	7286	9671
Big Ck S033	2.4	148	2260	3200	3631	4600
Big Ck J060	2.4	148	2260	3200	3631	4600
Big Ck S034	1.4	108	1620	2259	2547	3200
Big Ck J070	1.4	108	1620	2259	2547	3200
Big Ck J080	3.8	246	3750	5289	5990	7573
Big Ck R050	3.8	187	3164	4610	5262	6741
Big Ck S035	2.1	139	2121	2990	3386	4280
Big Ck J090	5.9	309	5122	7412	8447	10786
Big Ck R060	5.9	287	4872	7036	7877	10239
Big Ck S036	0.3	30	482	665	747	933
Big Ck J100 blw	14.8	524	8945	13242	15180	19807
Big Ck R070	14.8	89	4834	8658	10729	15030
Big Ck S037	4.6	442	3888	5536	6296	8004
Big Ck J110	19.4	467	6539	11540	14242	19768
Big Ck J120	83.6	1268	19323	33264	40788	55605
Big Ck R080	83.6	1268	19323	33263	40787	55601

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big Ck abv Bridgeport	83.6	1268	19323	33263	40787	55601
Boons Ck S010	15.7	46	9479	14400	16735	21780
Boons Ck J010	15.7	46	9479	14400	16735	21780
Boons Ck R010	15.7	36	9092	13639	16265	20959
Boons Ck S020	2.0	109	2132	3043	3457	4407
Boons Ck J020	2.0	109	2132	3043	3457	4407
Boons Ck S030	0.8	21	953	1349	1527	1941
Boons Ck J030 abv	18.4	129	10017	15149	18191	23366
Boons Ck S040	4.6	42	3863	5657	6484	8334
Boons Ck J030 blw	23.0	160	12787	19716	23190	29928
Boons Ck R020	23.0	68	7440	12527	15253	21226
Boons Ck S050	6.3	73	3820	5791	6726	8749
Boons Ck J040	29.3	115	8901	15186	18580	26121
Boons Ck R030	29.3	71	7154	12650	15729	22386
Boons Ck S060	2.3	30	1622	2423	2798	3621
Boons Ck J060 abv	31.7	73	7222	12920	16148	23116
Boons Ck S070	2.9	27	2424	3554	4077	5243
Boons Ck J050	2.9	27	2424	3554	4077	5243
Boons Ck R040	2.9	13	1258	2013	2410	3228
Boons Ck S080	5.2	45	4000	5909	6796	8762
Boons Ck J060 blw	39.8	98	7885	14555	18395	26649
Boons Ck R050	39.8	50	7599	14037	17806	25942
Boons Ck S090	3.8	178	3351	4874	5574	7150
Boons Ck J070 abv Willow Ck	43.6	189	7729	14244	18196	26735
Willow Ck S010	5.3	411	6703	9347	10520	13183
Willow Ck J010	5.3	411	6703	9347	10520	13183
Willow Ck R010	5.3	61	2347	3691	4344	5749
Willow Ck S020	1.4	138	2101	2899	3252	4051
Willow Ck J020 abv	6.7	163	3162	5014	5861	7603
Willow Ck S030	2.4	158	2604	3674	4153	5236
Willow Ck J020 blw	9.2	305	5766	8663	9978	12818
Willow Ck R020	9.2	111	3436	5101	5934	7819
Willow Ck S040	1.6	144	2329	3217	3610	4499
Willow Ck J030 abv	10.8	192	3963	6101	7061	8933
Willow Ck S050	4.9	239	3667	5330	6092	7786
Willow Ck J030 blw	15.6	381	7590	11139	12804	16421
Willow Ck R030	15.6	373	7194	10534	12531	16048
Willow Ck S060	0.2	21	320	435	486	600
Willow Ck J040 abv	15.8	374	7211	10572	12584	16122

Hydrologic Element	Draianage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Willow Ck S070	1.4	115	1871	2595	2916	3643
Willow Ck J040 blw	17.2	432	7765	11361	13641	17467
Willow Ck R040	17.2	367	7429	10977	13044	16982
Willow Ck S080	5.4	258	4329	6254	7131	9087
Willow Ck J050	22.5	598	11413	16502	19312	25059
Willow Ck R050	22.5	559	10490	15799	17951	24279
Willow Ck S090	3.2	170	2374	3454	3950	5052
Boons Ck J070 blw Willow Ck	69.3	812	17518	29582	35467	49467
Boons Ck R060	69.3	241	16059	27957	34331	47455
Coal Bed Br S010	5.1	237	3998	5794	6615	8442
Coal Bed Br R010	5.1	95	3743	5580	6412	8256
Boons Ck S100	1.7	577	2683	3659	4087	5072
Boons Ck J080	76.2	613	17959	31949	38897	54210
Jasper Ck S010	20.0	269	7020	11334	13485	17959
Jasper Ck R010	20.0	87	5165	9121	11005	15337
Jasper Ck S020	4.8	355	4634	6672	7605	9724
Jasper Ck abv Bridgeport	24.9	363	5348	9616	11734	16558
Bridgeport S002	21.8	6856	14293	20067	22742	28947
Bridgeport S001	14.9	3684	12127	17155	19481	24744
Bridgeport Inflow	1096.0	13021	80126	135561	164403	228071
Bridgeport Reservoir	1096.0	4678	12170	21207	29796	72025
WHA Bridgeport Outflow		2547	11619	13252	21082	38972
West Fork S162	11.8	943	9692	13966	15930	20314
West Fork J100	11.8	943	9692	13966	15930	20314
West Fork S161	1.7	132	1524	2180	2479	3150
West Fork R120		2514	11619	13251	21080	38968
West Fork J110		2523	11668	16112	21157	39086
West Fork R130		2523	11668	15759	21157	39086
West Fork S163	8.9	879	8884	12586	14254	18037
West Fork J120		2531	18535	26904	30834	39512
West Fork R140		2530	18358	26767	30679	39338
West Fork S164	2.7	339	3901	5386	6036	7533
West Fork J130		2533	19312	28446	32666	42198
West Fork R150		2521	13066	20105	23872	39211
West Fork S165	5.0	1141	5866	8152	9163	11503
West Fork J140		2532	14646	22279	26369	39268
West Fork R160		2510	11748	14914	21275	39265
West Fork S166	9.2	894	8110	11596	13185	16760
West Fork abv Dry Ck		2518	12528	18111	21329	39347

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dry Ck S010	5.7	515	5673	8039	9106	11528
Dry Ck J010	5.7	515	5673	8039	9106	11528
Dry Ck R010	5.7	328	5521	7937	8958	11391
Dry Ck S020	0.8	255	1761	2377	2648	3258
Dry Ck J020 abv	6.5	343	5670	8221	9313	11886
Dry Ck S030	3.8	298	4194	5900	6660	8398
Dry Ck J020 blw	10.3	486	9569	13899	15692	19976
Dry Ck R020	10.3	163	4268	8518	10712	14919
Dry Ck S040	2.3	385	4073	5549	6195	7671
Dry Ck J030	12.6	440	4487	9072	11476	16072
Dry Ck R030	12.6	320	3922	8233	10631	15341
Dry Ck S050	0.5	43	918	1249	1395	1724
Dry Ck J040 abv	13.1	359	3934	8305	10739	15521
Dry Ck S060	2.0	110	2315	3253	3670	4624
Dry Ck J040 blw	15.1	456	5293	8842	11658	17561
Dry Ck R040	15.1	405	4376	8669	11349	16955
Dry Ck S070	1.5	328	2006	2762	3093	3862
Dry Ck J050	1.5	328	2006	2762	3093	3862
Dry Ck R050	1.5	217	1508	2191	2483	3210
Dry Ck S080	0.6	77	1139	1547	1727	2133
Dry Ck J060 abv	2.0	226	1628	2428	2784	3634
Dry Ck J060 blw	17.1	630	5912	10086	12965	19532
Dry Ck R060	17.1	378	3592	7053	9184	13989
Dry Ck S090	3.8	223	4206	5923	6689	8436
Dry Ck J070	21.0	502	6013	8646	10124	15142
Dry Ck R070	21.0	477	5313	8119	9739	15042
Dry Ck S100	2.1	184	2907	4029	4522	5656
Dry Ck J080	2.1	184	2907	4029	4522	5656
Dry Ck R080	2.1	180	2850	3974	4468	5612
Dry Ck J090	23.1	557	7186	10705	12538	17046
Dry Ck R090	23.1	389	3478	6806	9040	14133
Dry Ck S110	4.2	510	4662	6536	7370	9284
Dry Ck abv West Fork	27.3	672	6385	9321	11015	15341
West Fork blw Dry Ck		2537	18446	26944	31297	42966
West Fork R170		2505	14810	24791	29444	42554
West Fork J160 abv		2505	14810	24791	29444	42554
West Fork S171	2.6	165	4150	5703	6380	7940
West Fork J150	2.6	165	4150	5703	6380	7940
West Fork R180	2.6	15	1245	2445	3080	4182

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork S172	1.9	101	2392	3335	3751	4707
West Fork J160 blw		2508	15800	27235	32544	44172
West Fork R190		2468	13552	24789	30585	43683
Amon G Carter S030	40.3	2613	8971	15732	18851	26015
Amon G Carter S010	38.6	729	4032	13253	16184	22863
Amon G Carter S020	30.6	1171	6126	10985	13392	18887
Amon G Carter Inflow	109.5	4503	19044	39907	48352	67663
Amon G Carter Lake	109.5	280	1271	9658	14523	30066
Big Sandy Ck R010	109.5	277	1267	9125	13983	29123
Big Sandy Ck S010	42.0	2428	7405	13372	16254	22742
Big Sandy Ck J010	151.5	2496	7497	13538	19020	40066
Big Sandy Ck R020	151.5	2408	7363	13363	18924	39851
Big Sandy Ck S011	1.4	596	1512	2132	2409	3037
Big Sandy Ck J030 abv	152.9	2419	7392	13405	18965	39909
Big Sandy Ck S012	1.0	269	708	1033	1183	1516
Big Sandy Ck J020	1.0	269	708	1033	1183	1516
Big Sandy Ck R030	1.0	255	674	997	1152	1482
Big Sandy Ck J030 blw	153.9	2426	7413	13470	18987	39951
Big Sandy Ck R040	153.9	2219	7008	13046	18750	39436
Big Sandy Ck S013	1.0	225	627	930	1072	1382
Big Sandy Ck J040	155.0	2224	7024	13094	18769	39468
Big Sandy Ck R050	155.0	2207	6992	13054	18751	39427
Big Sandy Ck S014	1.8	368	1021	1518	1753	2264
Big Sandy Ck J050 abv	156.7	2214	7019	13136	18783	39480
Big Sandy Ck S015	4.3	523	1535	2396	2823	3726
Big Sandy Ck J050 blw	161.0	2295	7329	13817	18851	39804
Big Sandy Ck R060	161.0	1964	6511	12922	18340	38583
Big Sandy Ck S016	3.3	312	944	1514	1804	2410
Big Sandy Ck J060	164.4	1996	6668	13311	18403	38829
Big Sandy Ck R070	164.4	1870	6332	12922	18195	38288
Big Sandy Ck S017	4.7	509	1492	2356	2789	3702
Big Sandy Ck J070 abv	169.0	1887	6430	13209	18250	38483
Pringle Ck S010	7.8	884	2640	4150	4904	6493
Pringle Ck J010	7.8	884	2640	4150	4904	6493
Pringle Ck R010	7.8	767	2315	3647	4347	5824
Pringle Ck S020	5.6	603	1807	2856	3382	4489
Pringle Ck J030 abv	13.4	1348	4058	6396	7603	10163
Pringle Ck S030	3.0	665	1850	2740	3157	4069
Pringle Ck J020	3.0	665	1850	2740	3157	4069

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Pringle Ck R020	3.0	482	1345	2090	2451	3279
Pringle Ck S040	1.5	273	776	1164	1349	1748
Pringle Ck J030 blw	17.9	1826	5584	8777	10400	13874
Pringle Ck R030	17.9	1634	4914	8049	9714	13204
Pringle Ck S050	2.9	637	1769	2615	3012	3880
Pringle Ck J040	20.8	1769	5328	8874	10775	14751
Pringle Ck R040	20.8	1598	4914	8483	10369	14329
Pringle Ck S060	1.5	269	771	1158	1342	1741
Pringle Ck J050	22.2	1652	5089	8881	10892	15118
Big Sandy Ck J070 blw	191.3	2302	7336	16084	20755	39938
Big Sandy Ck R080	191.3	2076	7250	15924	20613	39630
Big Sandy Ck S018	1.5	271	781	1178	1368	1778
Big Sandy Ck abv Brushy Ck	192.8	2105	7265	15948	20665	39664
Brushy Ck S010	30.7	1731	5299	9015	11026	15548
Brushy Ck J010	30.7	1731	5299	9015	11026	15548
Brushy Ck R010	30.7	1522	4944	8613	10643	15136
Brushy Ck S021	7.2	494	1653	2840	3420	4745
Brushy Ck J020	37.9	1703	5670	10085	12568	18009
Brushy Ck R020	37.9	1646	5568	9962	12449	17912
Brushy Ck S022	0.9	216	609	904	1037	1362
Brushy Ck J030 abv	38.8	1650	5579	9980	12471	17976
Brushy Ck S023	4.3	422	1404	2316	2747	3746
Brushy Ck J030 blw	43.1	1692	5790	10475	13194	19180
Brushy Ck R030	43.1	1552	5516	10145	12855	18862
Brushy Ck S024	1.3	194	608	956	1116	1495
Brushy Ck J050 abv	44.4	1556	5530	10185	12932	19034
Brushy Ck S025	1.8	280	884	1382	1609	2152
Brushy Ck J040	1.8	280	884	1382	1609	2152
Brushy Ck R040	1.8	278	880	1373	1600	2137
Brushy Ck J050 blw	46.2	1562	5548	10236	13030	19261
Brushy Ck R050	46.2	1544	5511	10194	12987	19220
Brushy Ck S026	1.2	281	818	1219	1398	1838
Brusy Ck J060 abv GrapevineC	47.4	1549	5526	10217	13014	19291
Grapevine Ck S010	4.5	563	1815	2906	3411	4602
Grapevine Ck J010	4.5	563	1815	2906	3411	4602
Grapevine Ck R010	4.5	516	1727	2765	3217	4301
Grapevine Ck S020	1.2	270	801	1197	1374	1807
Grapevine Ck J030 abv	5.6	608	2087	3370	3937	5248
Grapevine Ck S030	1.0	207	626	946	1090	1440

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Grapevine Ck J020	1.0	207	626	946	1090	1440
Grapevine Ck R020	1.0	189	599	920	1066	1414
Grapevine Ck J030 blw	6.6	751	2556	4114	4833	6369
Grapevine Ck R030	6.6	737	2524	4089	4801	6355
Grapevine Ck S040	0.3	57	172	261	301	399
Grapevine Ck J040	6.9	770	2637	4286	5035	6676
Brusy Ck J060 blw GrapevineC	54.3	1573	5650	10543	13570	20477
Brushy Ck R060	54.3	1530	5564	10451	13479	20397
Brushy Ck S027	2.4	460	1373	2093	2418	3206
Brushy Ck J070	56.7	1539	5589	10491	13527	20594
Brushy Ck R070	56.7	1481	5469	10353	13397	20464
Brushy Ck S028	0.6	103	312	485	564	754
Brushy Ck J080	57.3	1483	5475	10363	13414	20525
Brushy Ck R080	57.3	1426	5344	10202	13231	20290
Brushy Ck S029	1.4	140	436	716	849	1159
Brusy Ck J090 abv Dry Hollow	58.7	1429	5365	10267	13342	20539
Dry Hollow Br S010	2.3	351	1065	1877	2174	2818
Dry Hollow Br J010	2.3	351	1065	1877	2174	2818
Dry Hollow Br S020	1.3	245	711	1212	1392	1789
Dry Hollow Br J020	1.3	245	711	1212	1392	1789
Dry Hollow Br R010	1.3	215	673	1169	1345	1744
Dry Hollow Br S030	0.6	157	443	719	817	1036
Dry Hollow Br J030 abv	1.8	296	961	1683	1938	2516
Dry Hollow Br J030 blw	4.1	642	1987	3496	4041	5243
Dry Hollow Br R020	4.1	641	1987	3494	4039	5238
Dry Hollow Br S040	1.4	260	765	1308	1503	1933
Dry Hollow Br J040	1.4	260	765	1308	1503	1933
Dry Hollow Br R030	1.4	245	744	1288	1482	1910
Dry Hollow Br S050	0.4	93	264	438	500	637
Dry Hollow Br J050	1.8	317	963	1670	1921	2477
Dry Hollow Br J060	5.9	952	2937	5147	5938	7693
Dry Hollow Br R040	5.9	875	2814	4950	5612	7194
Dry Hollow Br S060	3.1	474	1418	2487	2879	3727
Dry Hollow Br J070	9.0	1334	4226	7432	8469	10885
Dry Hollow Br R050	9.0	1173	3706	6903	7939	10429
Dry Hollow Br S070	1.5	322	856	1428	1637	2100
Dry Hollow Br J080	10.4	1365	4275	7966	9159	12050
Dry Hollow Br R060	10.4	1228	3980	7667	8910	11753
Dry Hollow Br S080	0.8	109	320	567	658	856

Hydrologic Element	Draianage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dry Hollow Br J090 abv	11.2	1308	4244	8186	9516	12563
Brusy Ck J090 blw Dry Hollow	69.9	1660	5780	11840	14909	23034
Big Sandy Ck blw Brushy Ck	262.7	3470	12692	26299	34396	53707
Big Sandy Ck R090	262.7	3454	12674	26279	34379	53684
Big Sandy Ck S021	0.7	181	523	769	878	1121
Big Sandy Ck J080 abv	263.4	3457	12683	26293	34396	53705
Chicken Ck S010	1.6	298	898	1361	1571	2030
Chicken Ck J010	1.6	298	898	1361	1571	2030
Chicken Ck S020	1.0	236	694	1032	1183	1518
Chicken Ck J020	1.0	236	694	1032	1183	1518
Chicken Ck R010	1.0	223	673	1013	1165	1496
Chicken Ck J030	2.6	518	1564	2361	2722	3509
Chicken Ck R020	2.6	341	1130	1804	2125	2822
Chicken Ck S030	2.7	397	1226	1902	2215	2887
Chicken Ck J040	5.3	730	2335	3687	4319	5692
Big Sandy Ck J080 blw	268.7	3473	12737	26393	34621	53837
Big Sandy Ck R100	268.7	3452	12711	26369	34601	53806
Big Sandy Ck S022	0.7	148	440	660	759	976
Big Sandy Ck J090 abv	269.4	3454	12719	26381	34616	53825
Big Sandy Ck Trib S010	1.2	286	826	1227	1408	1806
Big Sandy Ck Trib J010	1.2	286	826	1227	1408	1806
Big Sandy Ck Trib R010	1.2	263	781	1163	1335	1726
Big Sandy Ck Trib S020	0.7	209	504	728	828	1053
Big Sandy Ck Trib J020	1.9	424	1198	1770	2028	2620
Big Sandy Ck Trib R020	1.9	343	952	1483	1716	2262
Big Sandy Ck Trib S030	0.7	188	524	768	877	1119
Big Sandy Ck Trib J030	2.6	452	1273	1984	2302	3034
Big Sandy Ck J090 blw	272.0	3466	12861	26434	34691	53901
Big Sandy Ck R110	272.0	3429	12782	26388	34658	53846
Big Sandy Ck S023	0.4	84	253	380	438	564
Big Sandy Ck J120 abv	272.4	3431	12795	26395	34667	53857
Big Sandy Ck S024	2.0	380	1090	1651	1907	2466
Big Sandy Ck J100	2.0	380	1090	1651	1907	2466
Big Sandy Ck R115	2.0	193	740	1274	1522	2057
Big Sandy Ck S025	1.3	350	1018	1493	1704	2174
Big Sandy Ck J110	3.3	414	1251	2099	2522	3407
Big Sandy Ck J120 blw	275.7	3509	13094	26501	34834	53972
Big Sandy Ck R120	275.7	3507	13092	26499	34834	53970
Mudhole Br S010	2.6	384	1187	1843	2147	2799

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Mudhole Br J010	2.6	384	1187	1843	2147	2799
Mudhole Br R010	2.6	312	972	1600	1909	2557
Mudhole Br S020	1.1	207	622	943	1089	1406
Mudhole Br J020	3.7	446	1390	2271	2720	3644
Big Sandy Ck J130	279.4	3596	13553	27223	34997	54713
Big Sandy Ck R130	279.4	3460	13215	26846	34940	54644
Big Sandy Ck S026	3.4	275	849	1408	1683	2258
Big Sandy Ck J160 abv	282.8	3561	13693	27902	36030	56096
Big Sandy Ck S027	1.4	330	976	1447	1658	2123
Big Sandy Ck J140	1.4	330	976	1447	1658	2123
Big Sandy Ck R140	1.4	284	847	1298	1499	1945
Big Sandy Ck S028	1.8	292	886	1366	1588	2065
Big Sandy Ck J150	3.2	564	1710	2626	3043	3951
Big Sandy Ck J160 blw	286.1	3579	13794	28303	36580	56728
Big Sandy Ck R150	286.1	3579	13793	28301	36579	56728
Briar Br S010	3.6	414	1251	1949	2295	3030
Briar Br J010	3.6	414	1251	1949	2295	3030
Briar Br S020	1.6	223	665	1020	1193	1564
Briar Br J020	1.6	223	665	1020	1193	1564
Briar Br J030	5.3	624	1888	2931	3448	4545
Briar Br R010	5.3	612	1851	2884	3400	4479
Briar Br S030	0.7	187	507	740	848	1085
Briar Br J040	6.0	700	2122	3310	3904	5142
Briar Br R020	6.0	698	2106	3276	3864	5096
Briar Br S040	0.3	75	197	287	329	422
Briar Br J050 abv	6.3	736	2214	3442	4059	5354
Walkers Br S010	2.7	315	952	1481	1744	2302
Walkers Br J010	2.7	315	952	1481	1744	2302
Walkers Br S020	1.2	273	766	1127	1294	1661
Walkers Br J020	1.2	273	766	1127	1294	1661
Walkers Br R010	1.2	252	737	1089	1252	1625
Walkers Br J030	3.9	507	1524	2351	2756	3614
Walkers Br R020	3.9	490	1493	2319	2722	3575
Walkers Br S030	1.2	290	798	1166	1336	1710
Walkers Br J040	5.1	654	2026	3139	3682	4828
Walkers Br R030	5.1	654	2022	3101	3613	4827
Walkers Br S040	0.3	78	207	300	342	437
Walkers Br J050	5.4	701	2161	3296	3832	5159
Briar Br J050 blw	11.7	1411	4296	6660	7822	10276

Hydrologic Element	Draianage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Briar Br R030	11.7	844	3005	5230	6452	8829
Briar Br S050	1.6	221	650	997	1166	1528
Briar Br J060	13.3	965	3433	5954	7333	10035
Briar Br R040	13.3	885	3245	5734	7092	9783
Briar Br S060	2.7	271	819	1291	1528	2030
Briar Br J070	16.1	1058	3876	6826	8428	11613
Big Sandy Ck J170	302.1	4253	16330	33650	43115	65075
Big Sandy Ck R160	302.1	4123	15476	31873	41242	64040
Big Sandy Ck S031	3.9	436	1320	2061	2430	3212
Big Sandy Ck J180	306.0	4191	15759	32583	42175	65501
Big Sandy Ck R170	306.0	4158	15566	32201	41806	65263
Big Sandy Ck S032	2.2	298	860	1320	1546	2029
Big Sandy Ck J190	2.2	298	860	1320	1546	2029
Big Sandy Ck R180	2.2	284	845	1307	1532	2014
Big Sandy Ck J200	2.2	284	845	1307	1532	2014
Big Sandy Ck J210 abv	308.3	4189	15687	32513	42227	65984
Big Sandy Ck S033	0.9	139	407	618	719	938
Big Sandy Ck J210 blw	309.2	4194	15714	32594	42348	66212
Big Sandy Ck R190	309.2	4172	15589	32352	42115	66046
Big Sandy Ck S034	3.3	367	1090	1701	2007	2654
Big Sandy Ck J220 abv	312.5	4218	15773	32814	42741	67150
Watson Br S010	4.1	467	1412	2200	2591	3421
Watson Br J010	4.1	467	1412	2200	2591	3421
Watson Br R010	4.1	464	1409	2197	2588	3418
Watson Br S020	2.7	428	1230	1863	2168	2824
Watson Br J020	2.7	428	1230	1863	2168	2824
Watson Br R020	2.7	421	1217	1847	2153	2808
Watson Br J030	6.8	844	2541	3930	4609	6065
Watson Br R030	6.8	770	2342	3682	4339	5740
Watson Br S030	2.1	343	972	1468	1706	2221
Watson Br J040	8.9	1019	3099	4876	5746	7602
Watson Br R040	8.9	776	2608	4365	5243	7072
Watson Br S040	0.2	30	88	134	156	203
Watson Br J050 abv	9.1	789	2655	4450	5346	7214
Twin Pond CK S010	3.8	437	1264	1963	2311	3052
Twin Pond CK J010	3.8	437	1264	1963	2311	3052
Twin Pond Ck R010	3.8	344	1068	1743	2084	2814
Twin Pond CK S020	2.8	346	1027	1588	1865	2454
Twin Pond CK J020	6.6	618	1921	3134	3731	5037

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Watson Br J050 blw	15.7	1364	4499	7499	9006	12166
Watson Br R050	15.7	1341	4454	7455	8967	12128
Watson Br S050	0.6	118	339	507	587	759
Watson Br J060	16.3	1379	4595	7718	9294	12582
Big Sandy Ck J220 blw	328.8	4638	17091	35855	46652	73713
Big Sandy Ck R200	328.8	4537	16667	34887	45575	72559
Big Sandy Ck S035	5.2	666	1972	3042	3567	4687
Big Sandy Ck J230 Gage	334.0	4590	16841	35359	46266	73951
Big Sandy Ck R210	334.0	4518	16671	35028	45978	73485
Big Sandy Ck S041	1.9	107	2238	3135	3533	4444
Big Sandy Ck J240 abv	335.9	4521	16691	35058	46013	73608
Waggoner Br S010	3.3	449	4176	5798	6513	8165
Waggoner Br J010	3.3	449	4176	5798	6513	8165
Waggoner Br R010	3.3	347	3024	4187	4730	6061
Waggoner Br S020	3.9	436	5024	6975	7832	9814
Waggoner Br J020	7.2	741	7614	10538	11850	14935
Waggoner Br R020	7.2	471	4488	7154	8386	11203
Waggoner Br S030	2.2	130	2768	3856	4336	5439
Waggoner Br J030 abv	9.4	513	5152	8690	10330	13979
Rosebud Br S010	0.8	41	1492	2029	2265	2798
Rosebud Br J010	0.8	41	1492	2029	2265	2798
Rosebud Br R010	0.8	35	1110	1559	1756	2221
Rosebud Br S020	0.9	55	1992	2700	3013	3711
Rosebud Br J020	1.7	86	2766	3837	4309	5375
Rosebud Br R020	1.7	58	1795	2719	3148	4147
Rosebud Br S030	0.4	20	711	968	1081	1336
Rosebud Br J040	2.0	75	2342	3500	4035	5295
Waggoner Br J030 blw	11.4	556	6347	10479	12426	16652
Waggoner Br R030	11.4	448	4617	8068	9810	13745
Waggoner Br S040	1.1	52	1227	1726	1949	2458
Waggoner Br J040	12.5	454	4750	8615	10616	15083
Big Sandy Ck J240 blw	348.4	4560	16895	35657	47054	75604
Big Sandy Ck R220	348.4	4556	16886	35641	47039	75582
Big Sandy Ck S042	1.8	76	2178	3041	3422	4297
Big Sandy Ck J250	350.2	4558	16906	35670	47073	75691
Big Sandy Ck R230	350.2	4519	16821	35501	46896	75444
Big Sandy Ck S043	3.2	94	3115	4432	5027	6371
Big Sandy Ck J260	353.4	4521	16849	35543	46946	75638
West Fork abv Big Sandy Ck		2468	13552	24789	30585	43683

Hydrologic Element	Draianage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork blw Big Sandy Ck		5069	23929	48832	63078	100424
West Fork R200		5061	23907	48776	63035	100348
West Fork S181	1.5	75	1759	2466	2781	3500
West Fork J170		5062	23923	48800	63064	100453
West Fork R210		4668	22955	47488	61711	97808
West Fork S182	0.1	7	166	231	260	325
West Fork J190 abv		4668	22957	47491	61714	97815
West Fork S183	2.4	168	3853	5290	5917	7357
West Fork J180	2.4	168	3853	5290	5917	7357
West Fork R220	2.4	57	2166	3417	3960	5162
West Fork S184	4.5	267	4244	6048	6865	8712
West Fork J190 blw		4675	23038	47612	61860	98265
West Fork R230		4618	22871	47355	61659	97833
Martin Br S010	4.1	942	5021	6960	7815	9802
Martin Br J010	4.1	942	5021	6960	7815	9802
Martin Br R010	4.1	543	3639	5522	6361	8243
Martin Br S020	3.7	234	5843	8033	8987	11186
Martin Br J020	7.8	591	6838	10227	11794	15284
Martin Br R020	7.8	476	4321	6937	8140	11027
Martin Br S030	3.4	203	4923	6803	7626	9522
Martin Br J030	11.3	501	8300	12450	14308	18572
Martin Br R030	11.3	476	7018	11188	13076	17478
Martin Br S040	0.2	12	344	466	521	642
Martin Br J060 abv	11.4	477	7057	11259	13163	17600
Martin Br S050	5.3	400	6663	9287	10445	13108
Martin Br J040	5.3	400	6663	9287	10445	13108
Martin Br R040	5.3	265	4605	7111	8247	10798
Martin Br S060	5.0	193	5191	7349	8317	10517
Martin Br J050	10.3	457	9635	14341	16461	21251
Martin Br J060 blw	21.7	876	16692	25599	29624	38851
West Fork S185	0.2	11	303	413	461	570
West Fork J200		4651	23144	47797	62305	99501
West Fork R240		4347	22206	46422	60700	96636
West Fork S191	4.1	247	4191	5933	6715	8492
West Fork J210		4349	22242	46477	60764	96820
West Fork R250		3954	20305	42867	57028	90516
West Fork S192	6.7	393	7427	10458	11810	14894
West Fork J220 abv Salt Ck		3956	20364	42959	57137	90664
Garrett Ck S001	2.8	64	3966	6261	7004	8713

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Garrett Ck J010	2.8	64	3966	6261	7004	8713
Garrett Ck R010	2.8	37	2645	4523	5151	6568
Garrett Ck S002	1.6	20	2433	3748	4190	5195
Garrett Ck J030 abv	4.4	43	3893	6730	7600	9743
Garrett Ck S003	2.7	30	3664	5822	6515	8109
Garrett Ck J020	2.7	30	3664	5822	6515	8109
Garrett Ck R020	2.7	18	2523	4741	5446	7018
Garrett Ck S004	0.4	11	731	1071	1196	1473
Garrett Ck J030 blw	7.4	63	6040	11355	13058	16893
Garrett Ck R030	7.4	30	2336	4884	5868	8134
Garrett Ck S005	5.9	89	4972	8654	9798	12393
Garrett Ck J040	13.4	102	5964	11138	12883	17005
Garrett Ck R040	13.4	68	3735	8127	9901	13916
Garrett Ck S006	1.7	47	3002	4547	5078	6277
Garrett Ck J050	1.7	47	3002	4547	5078	6277
Garrett Ck R050	1.7	38	2500	4065	4592	5778
Garrett Ck J060 blw	15.1	75	3948	8638	10553	14807
Garrett Ck R060	15.1	63	3417	7841	9736	13899
Garrett Ck S007	3.8	64	3689	6252	7049	8872
Garrett Ck J070	18.9	106	5521	10822	12865	17842
Garrett Ck R070	18.9	56	2806	6863	8772	13011
Garrett Ck S008	3.6	155	2914	5065	5740	7270
Garrett Ck J080 abv	22.5	191	4738	8831	10690	15478
Rush Ck S010	7.7	67	6643	11222	12704	16068
Rush Ck J010	7.7	67	6643	11222	12704	16068
Rush Ck R010	7.7	37	4031	8067	9426	12570
Rush Ck S020	1.6	36	2301	3504	3920	4877
Rush Ck J020	9.3	45	4136	8422	9911	13321
Rush Ck R020	9.3	37	3617	7735	9238	12558
Rush Ck S050	0.7	19	1272	1822	2034	2509
Rush Ck J040 abv	9.9	38	3642	7831	9377	12778
Rush Ck S030	5.7	103	6087	9854	11090	13927
Rush Ck J030	5.7	103	6087	9854	11090	13927
Rush Ck R030	5.7	71	4756	8452	9685	12450
Rush Ck S040	1.0	40	1742	2566	2866	3550
Rush Ck J040 blw	16.6	117	7022	14175	16780	22516
Rush Ck R040	16.6	82	5039	11545	14072	19657
Rush Ck S060	3.3	82	5386	8025	8970	11119
Rush Ck J050	20.0	122	6747	12340	15058	21224

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Rush Ck R050	20.0	82	4623	11126	13820	19774
Rush Ck S070	1.3	25	1527	2420	2716	3399
Garrett Ck J080 blw	43.8	274	8757	18494	23440	34848
Garrett Ck R080	43.8	272	8647	18466	23399	34806
Garrett Ck S009	1.4	29	1820	2820	3159	3940
Garrett Ck J090	45.2	287	9253	18805	23819	35418
Garrett Ck R090	45.2	251	7387	18162	23111	34160
Garrett Ck S031	5.8	350	6969	9749	10980	13802
Garrett Ck J100	50.9	568	10274	19725	24428	36105
Garrett Ck R100	50.9	441	7325	18292	23539	35284
Garrett Ck S032	3.3	237	4817	6652	7454	9304
Garrett Ck J110	54.2	546	7874	18513	23944	36081
Garrett Ck R110	54.2	93	7143	18040	23291	35447
Garrett Ck S033	4.2	233	3961	5652	6418	8148
Garrett Ck J120	58.5	280	7182	18323	23810	36528
Garrett Ck R120	58.5	55	6013	16000	21440	33492
Salt Ck S001	2.8	62	1916	5992	6707	8353
Salt Ck J010	2.8	62	1916	5992	6707	8353
Salt Ck R010	2.8	36	1199	4593	5311	6847
Salt Ck S002	0.3	9	294	854	953	1171
Salt Ck J020	3.1	37	1249	4738	5486	7086
Salt Ck S003	1.8	89	1130	3468	3893	4871
Salt Ck J030	1.8	89	1130	3468	3893	4871
Salt Ck R020	1.8	49	999	3292	3685	4763
Salt Ck S004	0.2	4	233	635	708	868
Salt Ck J040	2.0	50	1024	3368	3779	4904
Salt Ck J050	5.1	86	2273	8106	9265	11955
Salt Ck R030	5.1	42	1003	5095	6029	7951
Salt Ck S005	2.8	47	1400	4532	5110	6433
Salt Ck J070 abv	7.9	62	1658	7793	9282	12339
Salt Ck S006	5.6	162	2458	7904	8959	11349
Salt Ck J060	5.6	162	2458	7904	8959	11349
Salt Ck R040	5.6	99	1990	7154	8193	10381
Salt Ck S007	0.9	25	783	2377	2655	3280
Salt Ck J070 blw	14.4	142	3320	14985	17564	22847
Salt Ck R050	14.4	113	2654	12041	14155	18633
Salt Ck S008	3.0	48	1424	4643	5247	6624
Salt Ck J080 abv	17.4	117	2763	12847	15408	20416
Salt Ck S009	3.5	79	1584	5127	5804	7341

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Salt Ck J080 blw	21.0	167	3863	17152	19856	26218
Gonzollas Ck S010	2.8	49	1466	4729	5330	6704
Gonzollas Ck J010	2.8	49	1466	4729	5330	6704
Gonzollas Ck R010	2.8	10	371	2325	2857	3985
Gonzollas Ck S020	3.7	60	1793	5820	6570	8281
Gonzollas Ck J020	6.5	64	1835	6769	7983	10552
Gonzollas Ck R020	6.5	45	1764	6353	7640	10303
Gonzollas Ck S030	0.5	23	359	1085	1212	1505
Salt Ck J090 blw GonzollasCK	28.0	207	5678	23681	27664	36777
Salt Ck R060	28.0	148	3773	19524	23862	32755
Salt Ck S011	3.2	77	3054	5033	5681	7160
Salt Ck J100 abv	31.1	190	4873	20766	25673	35618
Pecan Br S010	2.6	33	1847	3225	3675	4682
Pecan Br J010	2.6	33	1847	3225	3675	4682
Salt Ck J100 blw Pecan Br	33.7	222	6720	23670	29052	39962
Salt Ck R070	33.7	202	6255	23289	28553	39526
Salt Ck S012	0.3	13	594	869	971	1200
Salt Ck J130 abv	34.1	203	6288	23357	28644	39667
Salt Ck S013	4.1	66	3941	6495	7329	9233
Salt Ck J110	4.1	66	3941	6495	7329	9233
Salt Ck R080	4.1	58	3523	6119	6980	8864
Salt Ck S014	0.9	19	1174	1836	2058	2569
Salt Ck J120	5.0	65	3852	7122	8205	10512
Salt Ck J130 blw	39.0	260	9828	28137	34140	46994
Salt Ck R090	39.0	229	8733	27131	33210	46040
Salt Ck S015	0.2	4	282	421	470	583
Salt Ck J150 abv	39.2	229	8747	27168	33262	46121
Salt Ck S016	1.5	72	2385	3546	3963	4913
Salt Ck J140	1.5	72	2385	3546	3963	4913
Salt Ck R100	1.5	21	1419	2557	2941	3915
Salt Ck S017	1.5	48	2025	3132	3508	4376
Salt Ck J150 blw	42.2	254	9663	28660	35104	48648
Salt Ck R110	42.2	237	8916	27884	34352	47875
Salt Ck S018	2.8	38	2162	3723	4229	5371
Salt Ck J160 abv	45.0	243	10274	30060	37115	51822
Cottonwood Ck S010	1.3	35	2384	3481	3888	4806
Cottonwood Ck J010	1.3	35	2384	3481	3888	4806
Cottonwood Ck R010	1.3	4	611	1500	1767	2274
Cottonwood Ck S020	4.3	91	3486	5927	6721	8518

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Salt Ck J160 blw Cottonwood	50.6	295	13341	34969	42948	59969
Salt Ck R120	50.6	241	9922	30867	38946	55470
Salt Ck S019	2.0	44	1684	2857	3239	4104
Salt Ck J170	52.6	246	10187	31530	39991	57321
Salt Ck R130	52.6	96	9902	31554	40008	57292
Salt Ck S021	2.2	137	2586	3625	4085	5140
Salt Ck J180 abv Garrett Ck	54.8	159	9976	32022	40715	58443
Garrett Ck S034	1.7	86	1625	2313	2624	3326
Salt Ck J180 blw Garrett Ck	115.0	264	11202	37219	49786	78161
Salt Ck R140	115.0	123	10014	36554	48934	76920
Salt Ck S022	1.8	60	1499	2162	2465	3143
Salt Ck J190 abv West Fork	116.8	124	10029	36857	49450	78072
West Fork J220 blw Salt Ck		4075	25041	52631	69559	109890
West Fork R260		4005	24905	52341	69363	109603
West Fork S201	0.6	33	823	1143	1284	1607
West Fork J230 abv		4005	24912	52351	69375	109620
Lola Ck S010	4.6	242	5383	7549	8511	10713
Lola Ck J010	4.6	242	5383	7549	8511	10713
Lola Ck R010	4.6	109	2745	4287	4993	6502
Lola Ck S020	4.4	157	3442	4993	5708	7298
West Fork J230 blw		4008	24987	52475	69542	110063
West Fork R270		3960	24895	52280	69396	109871
West Fork S202	0.7	42	1190	1628	1820	2258
West Fork J310 abv		3960	24904	52294	69412	109893
West Fork S203	6.2	369	6421	9082	10275	12990
West Fork J240	6.2	369	6421	9082	10275	12990
West Fork R280	6.2	202	4772	6830	7837	10175
West Fork S204	4.0	215	4765	6678	7526	9469
West Fork J250	10.2	262	7809	11224	12766	16381
West Fork S205	2.1	112	2838	3943	4429	5547
West Fork J260	2.1	112	2838	3943	4429	5547
West Fork R290	2.1	60	2100	3040	3451	4431
West Fork S206	0.9	59	1376	1891	2115	2633
West Fork J270	3.0	96	2958	4331	4919	6264
West Fork J280	13.2	344	10445	15135	17193	21922
West Fork R300	13.2	40	10380	15023	17070	21808
West Fork S207	0.4	41	1036	1398	1560	1916
West Fork J290	13.6	50	10460	15175	17262	22076
West Fork R310	13.6	40	8666	13674	15848	20695

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork S208	0.8	56	1337	1837	2055	2556
West Fork J300	14.5	81	8795	13991	16244	21264
West Fork J310 blw		3982	25050	52516	69686	110523
West Fork R320		3978	25042	52497	69672	110507
Walker Ck S010	3.0	198	3990	5535	6213	7775
Walker Ck J010	3.0	198	3990	5535	6213	7775
Walker Ck R010	3.0	175	3429	4641	5509	7589
Walker Ck S020	1.7	117	2792	3835	4291	5336
West Fork J320		3980	25096	52579	69769	110647
West Fork R330		3925	24984	52363	69598	110455
West Fork S209	2.6	182	3235	4508	5070	6362
West Fork J330 Gage		3926	25010	52402	69644	110518
West Fork R340		3912	24906	52289	69539	110371
West Fork S211	1.6	56	766	1566	1795	2302
West Fork abv Deep Ck		3912	24922	52325	69584	110438
Deep Ck S10	2.7	36	1778	3552	4033	5113
Deep Ck J10	2.7	36	1778	3552	4033	5113
Deep Ck R10	2.7	25	1175	2762	3237	4303
Deep Ck S20	3.9	45	2142	4393	5016	6401
Deep Ck J20	6.6	65	3034	6831	7949	10442
Deep Ck R20	6.6	56	2549	6209	7327	9784
Deep Ck S30	1.5	20	985	1974	2242	2844
Deep Ck abv West Fork	8.1	68	3041	7469	8820	11816
West Fork blw Deep Ck		3914	25019	52546	69860	110842
West Fork R350		3908	24992	52515	69833	110810
West Fork S212	1.2	9	874	1720	1946	2457
West Fork J340		3908	25008	52551	69878	110874
West Fork R360		3894	24733	52205	69564	110569
West Fork abv Blue Ck		3894	24733	52205	69564	110569
Blue Ck S10	3.3	50	1553	3249	3729	4788
Blue Ck J10	3.3	50	1553	3249	3729	4788
Blue Ck R10	3.3	50	1544	3243	3722	4781
Blue Ck S20	2.1	103	1284	2525	2872	3651
Blue Ck J20	2.1	103	1284	2525	2872	3651
Blue Ck R20	2.1	98	1222	2449	2756	3554
Blue Ck S25	0.9	21	711	1377	1557	1963
Blue Ck J30	3.0	114	1746	3536	4040	5150
Blue Ck J40	6.3	160	3132	6564	7483	9638
Blue Ck R30	6.3	132	2427	5686	6644	8741

Hydrologic Element	Draianage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Blue Ck S40	1.3	18	902	1787	2026	2563
Blue Ck J50	7.6	141	2813	6676	7828	10351
Blue Ck S30	2.4	24	1071	2269	2610	3357
Blue Ck J60	9.9	164	3870	8937	10429	13707
Blue Ck R40	9.9	162	3846	8909	10398	13674
Blue Ck S50	0.1	18	170	293	327	406
Blue Ck J70	10.1	163	3858	8945	10445	13743
Blue Ck R50	10.1	119	3180	7803	9279	12421
Blue Ck S60	0.8	33	468	928	1056	1343
Blue Ck abv West Fork	10.8	129	3342	8262	9847	13212
West Fork blw Blue Ck		3897	24855	52487	69920	111136
West Fork R370		3894	24840	52467	69903	111122
West Fork S213	1.0	72	840	1579	1782	2245
West Fork J350		3895	24854	52499	69943	111178
West Fork R380		3850	24359	51890	69342	110658
West Fork S214	4.2	181	1932	3937	4520	5807
West Fork J370 abv		3852	24393	51970	69443	110814
West Fork S215	2.8	68	1651	3327	3789	4823
West Fork J360	2.8	68	1651	3327	3789	4823
West Fork J370 blw		3852	24420	52035	69525	110937
West Fork R390		3848	24384	51991	69481	110894
Hog Branch S10	1.8	32	1649	3120	3513	4405
Hog Branch J10	1.8	32	1649	3120	3513	4405
Hog Branch R10	1.8	24	1205	2502	2881	3660
Hog Branch S20	4.6	62	3006	6020	6836	8669
Hog Branch J20	6.4	85	4211	8522	9711	12322
Hog Branch R20	6.4	74	3454	7569	8707	11217
Hog Brach S30	3.9	71	2251	4582	5225	6661
Hog Branch J30	10.3	141	5517	12004	13800	17740
Hog Branch R30	10.3	128	5363	11789	13598	17556
Hog Branch S40	0.2	12	262	455	509	631
Hog Branch abv West Fork	10.5	129	5386	11853	13686	17678
West Fork S216	0.8	12	560	1120	1271	1611
West Fork blw Hog Branch		3849	24508	52286	69851	111444
West Fork R400		3844	24474	52255	69812	111391
West Fork S217	0.2	6	216	402	452	566
West Fork abv Dry Fork		3844	24477	52262	69821	111403
Dry Fork S10	0.8	33	1011	1547	1737	2172
Dry Fork J10	0.8	33	1011	1547	1737	2172

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dry Fork R10	0.8	21	493	937	1089	1462
Dry Fork S20	1.0	31	1050	1656	1866	2342
Dry Fork abv West Fork	1.8	51	1427	2448	2822	3651
West Fork blw Dry Fork		3845	24508	52321	69895	111509
West Fork R410		3816	24307	52124	69674	111063
Eagle Mountain S001	0.3	9	128	231	268	348
West Fork abv Oastes Branch		3816	24309	52129	69680	111073
Oates Branch S10	1.7	112	1399	2263	2564	3244
Oates Branch J10	1.7	112	1399	2263	2564	3244
Oates Branch R10	1.7	87	1101	1922	2181	2794
Oates Brannch S30	1.6	57	1101	1842	2099	2674
Oates Branch J30	3.2	142	2184	3750	4264	5450
Oates Branch S20	0.8	124	1177	1745	1955	2434
Oates Branch J20	0.8	124	1177	1745	1955	2434
Oates Branch R20	0.8	48	401	823	993	1371
Oates Branch S40	1.0	43	916	1478	1672	2112
Oates Branch J40	1.9	82	1144	2118	2474	3303
Oates Branch J50	5.1	224	3246	5786	6648	8625
Oates Branch R30	5.1	197	3067	5634	6502	8464
Oates Branch S50	1.1	84	1140	1773	1997	2509
Oates Branch J60	1.1	84	1140	1773	1997	2509
Oates Branch R40	1.1	59	899	1534	1765	2267
Oates Branch S60	2.5	108	1535	2611	2988	3826
Oates Branch J70	8.7	352	5338	9544	10961	14186
Oates Branch R50	8.7	352	5338	9544	10961	14186
Oates Branch S70	0.3	28	350	539	607	760
Oates Branch abv West Fork	9.0	364	5488	9838	11300	14624
West Fork blw Oastes Branch		3819	24424	52357	69967	111497
West Fork R420		3819	24424	52357	69967	111497
Eagle Mountain S002	4.2	316	2476	4160	4761	6098
Eagle Mountain S003	2.2	314	1725	2740	3105	3934
West Fork J370		3824	24490	52488	70133	111750
West Fork R430		3824	24490	52488	70133	111750
Derrett Ck S30	3.4	138	2291	3852	4395	5608
Derrett Ck J30	3.4	138	2291	3852	4395	5608
Derrett Ck R30	3.4	136	2272	3820	4351	5524
Derrett Ck S40	0.6	108	1260	1784	1991	2456
Derrett Ck J50	4.1	149	2370	4038	4624	5894
Derrett Ck R50	4.1	43	2303	3924	4502	5728

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Derrett Ck S50	0.8	72	804	1254	1413	1775
Derrett Ck J60	0.8	72	804	1254	1413	1775
Derrett Ck R60	0.8	38	365	746	882	1196
Derrett Ck S60	1.5	174	1405	2208	2492	3140
Derrett Ck J70	6.3	216	3514	6161	7115	9150
Derrett Ck abv Eagle Mountai	6.3	216	3514	6161	7115	9150
Derrett Ck R80	6.3	166	3468	6134	7088	9122
Eagle Mountain S004	1.0	344	943	1402	1578	1987
West Fork J380		3830	24593	52686	70380	112116
Briar Ck S10	5.5	175	4105	6814	7750	9851
Briar Ck J10	5.5	175	4105	6814	7750	9851
Briar Ck R10	5.5	36	3006	5782	6595	8710
Briar Ck S20	2.5	194	1998	3243	3678	4661
Briar Ck abv Eagle Mountain	8.0	202	4180	8169	9390	12434
West Fork J390		3833	24685	52872	70615	112469
West Fork R440		3833	24685	52872	70615	112469
Eagle Mountain S005	0.8	485	1214	1706	1900	2353
West Fork J400		3836	24703	52904	70652	112522
West Fork R450		3836	24703	52904	70652	112522
Eagle Mountain S006	1.4	601	1802	2608	2915	3631
WestFork abv Eagle Mountain		3839	24730	52951	70711	112606
Indian Ck S010	5.1	560	3349	5502	6309	8218
Indian Ck J010 abv	5.1	560	3349	5502	6309	8218
Indian Ck S020	2.8	237	1872	3101	3557	4632
Indian Ck J020	2.8	237	1872	3101	3557	4632
Indian Ck J030 blw Trib	7.9	798	5213	8598	9861	12844
Indian Ck R010	7.9	664	4106	7307	8523	11409
Indian Ck S030	1.4	118	1043	1707	1953	2534
Indian Ck abv Moss Branch	9.3	748	4786	8550	9974	13366
Moss Branch S010	2.8	205	1807	3015	3462	4513
Moss Branch J010	2.8	205	1807	3015	3462	4513
Moss Branch R010	2.8	70	995	1909	2228	2937
Moss Branch S020	0.9	81	848	1340	1524	1960
Moss Branch abv Incdian Ck	3.6	83	1076	2143	2523	3339
Indian Ck blw Moss Branch	13.0	789	5692	10502	12306	16487
Indian Ck R020	13.0	472	4405	8869	10581	14499
Indian Ck S040	3.4	285	2369	3918	4492	5846
Indian Ck J040	16.4	568	5271	10962	13167	18203
Indian Ck R030	16.4	568	5271	10962	13167	18203

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Indian Ck S050	2.5	477	1813	2863	3267	4236
Indian Ck abv West Fork	18.9	967	6397	12941	15535	21451
West Fork blw Indian Ck		3855	25945	53384	71260	113433
West Fork R460		3855	25945	53384	71260	113433
Gilmore Branch S010	5.4	405	4248	6944	7936	10278
Gilmore Branch J010	5.4	405	4248	6944	7936	10278
Gilmore Branch R010	5.4	175	2277	4546	5422	7459
Eagle Mountain S031	1.9	683	2275	3365	3794	4836
West Fork J410		3860	28933	54800	71431	113698
Swift Branch S010	1.7	234	2220	3353	3787	4817
Swift Branch J010	1.7	234	2220	3353	3787	4817
Swift Branch R010	1.7	234	2220	3353	3787	4817
West Fork J420		3992	29555	55930	71480	113770
West Fork R470		3992	29555	55930	71480	113770
Walnut Ck S001	1.8	674	1911	2864	3259	4152
Walnut Ck J010	1.8	674	1911	2864	3259	4152
Walnut Ck R010	1.8	587	1796	2740	3122	3983
Walnut Ck S002	0.6	246	688	1013	1150	1459
Walnut Ck J020 abv	2.4	707	2250	3470	3957	5051
Walnut Ck S003	2.0	586	1730	2660	3043	3899
Walnut Ck J020 blw	4.3	1270	3980	6130	7000	8950
Walnut Ck R020	4.3	1058	3284	5350	6162	7963
Walnut Ck S004	2.5	662	1948	3029	3473	4460
Walnut Ck J030 abv	6.8	1536	4806	7930	9156	11877
Goshen Ck S010	3.0	774	2332	3633	4170	5360
Goshen Ck J010	3.0	774	2332	3633	4170	5360
Goshen Ck R010	3.0	764	2297	3608	4140	5283
Goshen Ck S020	0.9	296	849	1287	1468	1875
Walnut Ck J030 blw	10.7	2467	7571	12443	14353	18540
Walnut Ck R030	10.7	2143	6926	11619	13501	17705
Walnut Ck S005	1.4	414	1141	1747	1998	2561
Walnut Ck J050 abv	12.1	2324	7544	12740	14852	19483
Walnut Ck S006	1.9	489	1457	2269	2604	3347
Walnut Ck J035	1.9	489	1457	2269	2604	3347
Walnut Ck R040	1.9	466	1426	2237	2569	3300
Walnut Ck S007	0.4	222	593	852	963	1216
Walnut Ck J040	2.3	500	1577	2500	2879	3707
Walnut Ck J050 blw	14.3	2670	8690	14757	17243	22668
Walnut Ck R050	14.3	2509	8357	14357	16813	22214

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut Ck S008	1.1	397	997	1503	1714	2191
Walnut Ck J060 abv	15.4	2616	8737	15109	17739	23487
Browders Ck S010	2.0	896	2500	3676	4170	5291
Browders Ck J010	2.0	896	2500	3676	4170	5291
Browders Ck R010	2.0	378	1137	1878	2229	3011
Browders Ck S020	4.3	880	2710	4336	5008	6476
Browders Ck J020	6.3	1182	3617	5968	6956	9252
Browders Ck R020	6.3	1037	3334	5669	6652	8837
Browders Ck S030	0.8	322	856	1274	1448	1843
Walnut Ck J060 blw	22.5	3666	12245	21174	24903	33054
Walnut Ck R060	22.5	3471	11530	20369	24023	32104
Walnut Ck S009	1.2	299	885	1385	1591	2048
Walnut Ck J070 abv	23.7	3537	11821	21039	24835	33289
Dry Br S010	3.1	828	2460	3831	4393	5642
Dry Br J010	3.1	828	2460	3831	4393	5642
Dry Br R010	3.1	527	1621	2769	3281	4408
Dry Br S020	3.1	757	2202	3455	3974	5119
Dry Br J020	6.2	1114	3315	5596	6568	8785
Dry Br R020	6.2	982	3019	5258	6198	8336
Dry Br S030	0.9	287	838	1272	1450	1852
Dry Br J030	7.1	1042	3246	5723	6758	9124
Walnut Ck J070 blw	30.8	4421	14800	26493	31350	42105
Walnut Ck R070	30.8	4417	14779	26468	31316	42070
Woody Ck S010	3.9	997	3029	4732	5428	6975
Woody Ck J010	3.9	997	3029	4732	5428	6975
Woody Ck R010	3.9	442	1570	2999	3644	4987
Woody Ck S020	4.5	847	2619	4237	4902	6351
Woody Ck J020	8.3	973	3280	6129	7436	10217
Woody Ck R020	8.3	926	2971	5901	7171	9893
Woody Ck S030	0.7	234	694	1053	1200	1532
Woody Ck J030 abv Walnut Ck	9.0	968	3044	6129	7468	10342
Walnut Ck S010	0.4	220	606	864	977	1232
Walnut Ck J080 blw Woody Ck	40.2	5306	17828	32645	38847	52504
Walnut Ck R080	40.2	5276	17675	32443	38647	52320
Walnut Ck S011	0.2	116	334	484	548	693
Walnut Ck J090 abv	40.4	5277	17679	32473	38691	52392
Walnut Ck S012	2.4	589	1758	2758	3168	4075
Walnut Ck J080	2.4	589	1758	2758	3168	4075
Walnut Ck R090	2.4	570	1711	2694	3095	3976

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut Ck S013	1.3	492	1385	2084	2373	3025
Walnut Ck J090 blw	44.1	5457	18376	34211	40903	55644
Walnut Ck R100	44.1	5392	18123	33610	40469	55204
Walnut Ck S014	1.2	483	1413	2103	2390	3039
Walnut Ck J100 abv	45.4	5397	18161	33808	40768	55711
Walnut Ck Trib S010	2.8	859	2603	3991	4560	5834
Walnut Ck Trib J010	2.8	859	2603	3991	4560	5834
Walnut Ck Trib R010	2.8	820	2447	3840	4410	5697
Walnut Ck Trib S020	0.4	196	560	812	920	1163
Walnut Ck Trib J020 abv	3.2	886	2660	4196	4844	6262
Walnut Ck Trib S030	1.9	535	1602	2481	2842	3646
Walnut Ck Trib J030	1.9	535	1602	2481	2842	3646
Walnut Ck Trib R020	1.9	474	1484	2341	2702	3493
Walnut Ck Trib S040	0.3	148	428	629	714	904
Walnut Ck Trib J040	2.3	505	1619	2582	2987	3879
Walnut Ck Trib J020 blw	5.5	1316	4190	6639	7661	9939
Walnut Ck Trib R030	5.5	1209	3988	6416	7434	9689
Walnut Ck Trib S050	1.1	456	1343	1995	2266	2882
Walnut Ck Trib J050 abv	6.6	1353	4542	7425	8655	11352
Walnut Ck Trib S060	1.6	463	1394	2148	2457	3149
Walnut Ck Trib J070	1.6	463	1394	2148	2457	3149
Walnut Ck Trib J060 blw	8.2	1743	5660	9316	10860	14263
Walnut Ck Trib R040	8.2	1692	5524	9164	10676	14053
Walnut Ck Trib S070	0.6	329	920	1329	1503	1900
Walnut Ck Trib J080	8.8	1731	5672	9491	11091	14632
Walnut Ck Trib R050	8.8	1400	4546	8191	9727	13105
Walnut Ck Trib S080	1.2	326	973	1505	1724	2211
Walnut Ck J100 blw	55.3	6422	21908	40564	49131	67359
Walnut Ck R110	55.3	6399	21816	40474	48980	67211
Walnut Ck S015	0.1	93	246	347	392	492
Walnut Ck J110 abv	55.5	6400	21818	40485	48997	67241
Walnut Ck S016	3.1	804	2396	3742	4294	5519
Walnut Ck J110 blw	58.6	6502	22213	41578	50486	69570
Walnut Ck R120	58.6	6392	21783	41095	49743	68733
Walnut Ck S017	0.9	276	828	1268	1448	1852
Walnut Ck J120 abv	59.5	6401	21818	41266	49993	69146
Walnut Ck S018	1.7	493	1465	2251	2574	3297
Walnut Ck J120 blw	61.2	6422	21898	41615	50497	69968
Walnut Ck R130	61.2	6384	21829	41541	50404	69831

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut Ck S019	1.3	495	1449	2172	2470	3144
Walnut Ck J130 Gage	62.5	6389	21843	41690	50641	70260
Walnut Ck R140	62.5	6030	21211	40670	49476	68153
Walnut Ck S021	0.1	28	215	317	357	449
Walnut Ck J140 abv	62.6	6031	21217	40680	49489	68177
Cottonwood Br S010	1.9	222	2433	3795	4294	5436
Cottonwood Br J010	1.9	222	2433	3795	4294	5436
Cottonwood Br R010	1.9	75	928	1813	2144	2882
Cottonwood Br S020	3.6	115	2668	4549	5211	6687
Walnut Ck J140 blw	68.0	6086	21580	41953	51260	70994
Walnut Ck R150	68.0	5946	21206	41341	50565	70197
Walnut Ck S022	1.0	26	1096	1767	2006	2548
Walnut Ck J150 abv	69.0	5947	21237	41407	50683	70413
Walnut Ck S023	1.6	37	1498	2465	2807	3580
Walnut Ck J160	1.6	37	1498	2465	2807	3580
Walnut Ck R160	1.6	31	1203	2126	2452	3179
Walnut Ck S024	0.8	70	1032	1594	1803	2280
Walnut Ck J170	2.3	88	1700	3024	3486	4546
Walnut Ck J150 blw	71.3	5953	21313	41644	51075	71137
Walnut Ck R170	71.3	5917	21218	41488	50873	70834
Walnut Ck S025	1.7	128	1290	2157	2466	3159
Walnut Ck J180	73.0	5927	21257	41711	51220	71411
Walnut Ck R180	73.0	4629	18342	37546	45961	64287
Walnut Ck S026	3.3	190	2511	4234	4844	6210
Walnut Ck J200 abv	76.3	4639	18414	37749	46342	64985
Walnut Ck S027	2.0	79	1942	3186	3628	4628
Walnut Ck J190	2.0	79	1942	3186	3628	4628
Walnut Ck R190	2.0	58	1533	2791	3227	4205
Walnut Ck S028	1.3	132	1419	2254	2557	3247
Walnut Ck J200 blw	79.6	4648	18509	37952	46692	65616
Walnut Ck R200	79.6	4648	18509	37952	46692	65616
West Fork J430		5598	33788	66993	82165	118287
West Fork R480		5598	33788	66993	82165	118287
Dosier Ck S010	5.5	624	4699	7510	8553	11034
Dosier Ck J010	5.5	624	4699	7510	8553	11034
Dosier Ck R010	5.5	624	4699	7510	8553	11034
Little Dosier Ck S010	2.1	240	2040	3216	3653	4694
Little Dosier Ck J010	2.1	240	2040	3216	3653	4694
Little Dosier Ck R010	2.1	240	2040	3216	3653	4694

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dosier Ck J020	7.6	861	6671	10631	12101	15594
Dosier Ck R020	7.6	861	6671	10631	12101	15594
Eagle Mountain S032	24.3	5210	13556	21159	24196	31553
West Fork J440		9340	50376	93891	113099	156605
West Fork R490		9340	50376	93891	113099	156605
Ash Ck S010	2.9	102	3009	4825	5485	6982
Ash Ck J010	2.9	102	3009	4825	5485	6982
Ash Ck R010	2.9	46	1359	2844	3398	4574
Ash Ck S020	2.6	88	2449	3994	4551	5808
Ash Ck J020 abv	5.5	110	2930	5623	6684	8977
Ash Ck S030	3.9	137	2850	4815	5519	7088
Ash Ck J020 blw	9.3	247	5706	10401	12182	16038
Ash Ck R020	9.3	165	3685	7865	9458	12818
Ash Ck S040	3.9	156	3493	5717	6522	8334
Ash Ck J030	13.2	269	5592	11358	13579	18387
Ash Ck R030	13.2	169	3362	8007	9870	13798
Ash Ck S050	6.4	398	4009	6839	7868	10143
Ash Ck J040	19.6	455	5287	11364	14119	19852
Ash Ck R040	19.6	431	5035	11245	13980	19704
Ash Ck S060	2.2	285	2115	3373	3836	4888
Ash Ck J050 abv	21.8	589	5850	11964	14938	21159
Ash Ck S070	1.9	110	1913	3080	3504	4463
Ash Ck J050 blw	23.7	674	6658	12684	15820	22516
Ash Ck R050	23.7	481	5266	11787	14692	20963
Ash Ck S080	0.6	123	824	1261	1425	1804
Ash Ck J060	24.4	496	5301	11870	14811	21154
Ash Ck S090	1.9	176	2306	3580	4055	5142
Ash Ck J070	1.9	176	2306	3580	4055	5142
Ash Ck J080	26.2	524	5421	12111	15162	21737
Ash Ck R060	26.2	524	5421	12111	15162	21737
Eagle Mountain S033	3.4	1109	3395	5085	5750	7370
West Fork J450		10697	57752	107626	129471	180009
Eagle Mountain Reservoir		6801	15981	27308	34292	51362
West Fork R500		6801	15967	27287	34266	51326
Lake Worth S010	21.3	814	3954	7486	8896	12046
West Fork J460		6801	16043	27440	34450	51587
West Fork R510		6801	16043	27440	34450	51587
Silver Ck S010	2.5	28	880	1799	2105	2757
Silver Ck J010	2.5	28	880	1799	2105	2757

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Silver Ck R010	2.5	28	849	1763	2056	2679
Silver Ck S020	1.9	13	547	1155	1363	1801
Silver Ck J020 abv	4.5	41	1392	2908	3412	4475
Silver Ck S030	3.7	34	982	2081	2462	3261
Silver Ck J020 blw	8.2	74	2352	4949	5840	7696
Silver Ck R020	8.2	65	2231	4750	5668	7518
Silver Ck S040	1.8	22	697	1404	1637	2137
Silver Ck J030	10.0	79	2704	5784	6911	9162
Silver Ck R030	10.0	45	1947	5079	6250	8510
Silver Ck S050	1.3	21	395	816	960	1266
Silver Ck J050 abv	11.3	55	2189	5718	7051	9601
Silver Ck S060	1.9	41	801	1582	1839	2393
Silver Ck J040	1.9	41	801	1582	1839	2393
Silver Ck R040	1.9	37	741	1403	1629	2172
Silver Ck S070	1.9	44	712	1421	1658	2166
Silver Ck J050 blw	15.1	121	2893	7800	9617	13056
Silver Ck R050	15.1	113	2848	7776	9581	13038
Silver Ck S080	0.4	7	244	455	522	669
Silver Ck J060 abv	15.4	115	2871	7872	9707	13233
Little Silver Ck S010	1.8	31	742	1480	1723	2246
Little Silver Ck J010	1.8	31	742	1480	1723	2246
Little Silver Ck R010	1.8	26	707	1445	1684	2214
Little Silver Ck S020	2.1	38	728	1480	1733	2273
Little Silver Ck J020 abv	4.0	63	1435	2922	3414	4473
Little Silver Ck S030	1.8	7	578	1209	1421	1870
Little Silver Ck J020 blw	5.8	70	2010	4120	4824	6326
Little Silver Ck R020	5.8	61	1926	3995	4686	5738
Little Silver Ck S040	1.2	16	512	1022	1189	1549
Little Silver Ck J030	7.0	71	2327	4846	5685	6957
Little Silver Ck R030	7.0	68	2263	4801	5646	6940
Little Silver Ck S050	0.7	23	297	578	671	872
Silver Ck J060 blw	23.2	192	5055	12727	15393	20661
Silver Ck R060	23.2	151	4391	11535	14084	19031
Silver Ck S090	4.3	60	1374	2830	3324	4371
Silver Ck J070	27.5	180	5188	13553	16536	22281
Silver Ck R070	27.5	170	4609	13200	16264	21818
Silver Ck S100	2.8	82	1005	1996	2326	3082
Silver Ck J080 abv	30.4	199	5004	14439	17812	23866
Silver Ck S110	3.7	100	1073	2179	2556	3411

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Silver Ck J080 blw	34.1	282	5677	16243	20011	26833
Silver Ck R080	34.1	256	5520	15885	19653	26644
Silver Ck S120	1.2	37	532	1033	1197	1574
Silver Ck J100 abv	35.3	266	5631	16295	20191	27421
Silver Ck S130	1.6	48	676	1319	1529	2013
Silver Ck J090	1.6	48	676	1319	1529	2013
Silver Ck R090	1.6	30	362	851	1023	1431
Silver Ck S140	2.0	45	851	1670	1934	2544
Silver Ck J100 blw	38.9	309	6150	17816	22093	30148
Silver Ck R100	38.9	307	6138	17809	22356	30135
Silver Ck J110 abv Mill Ck	38.9	307	6138	17809	22356	30135
Mill Ck S010	1.8	70	714	1385	1607	2119
Mill Ck J010	1.8	70	714	1385	1607	2119
Mill Ck R010	1.8	69	676	1337	1554	2060
Mill Ck S020	1.4	52	776	1453	1668	2173
Mill Ck J020	3.2	113	1196	2398	2795	3699
Mill Ck R020	3.2	86	190	1926	2476	3520
Mill Ck S030	1.9	66	736	1440	1673	2209
Mill Ck J030	5.1	137	838	3032	3909	5606
Mill Ck R030	5.1	51	611	2855	3674	5390
Mill Ck S040	1.8	95	781	1480	1711	2248
Silver Ck J110 blw Mill Ck	45.8	385	6797	21016	26488	36142
Silver Ck R110	45.8	374	6484	18319	22077	33909
Silver Ck S150	2.2	101	964	1837	2124	2789
Silver Ck J120	47.9	398	6634	18799	22673	35031
Silver Ck R120	47.9	394	6601	18730	22553	33839
Live Oak Ck S010	5.6	183	1818	3615	4222	5608
Live Oak Ck J010	5.6	183	1818	3615	4222	5608
Live Oak Ck R010	5.6	144	1682	3431	4018	5364
Live Oak Ck S020	2.4	113	990	1896	2197	2892
Live Oak Ck J020	8.0	224	2447	4984	5832	7785
Live Oak Ck R020	8.0	224	2447	4984	5832	7785
Silver Ck J130	55.9	549	7561	21379	25689	38600
Silver Ck R130	55.9	549	7561	21379	25689	38600
Lake Worth S020	16.6	1740	4708	7826	9097	12080
Lake Worth Inflow		6801	20305	44512	53089	74540
Lake Worth		4715	16455	28218	35351	52921
Lake Worth Outlet		4715	16455	28218	35351	52921
Dry_Fork_R20	1.8	50	1410	2437	2808	3640

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) without NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_R_100	2.8	68	1632	3317	3779	4814
Little_Silver_Ck_J040	7.7	79	2463	5245	6178	7622
Mill_Ck_J040	6.8	113	1099	3754	4862	7203
Silver_Ck_J100	3.6	61	951	1999	2397	3277
Silver_Ck_J050	3.8	79	1440	2752	3194	4240

Table 6-2. Summary of Existing 2020 Conditions Discharges for the West Fork of the Trinity River with NRCS losses

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork S010	60.5	3972	13491	24041	29343	41358
West Fork R010	60.5	708	3349	7943	11079	18781
West Fork S020	67.8	3535	12012	21298	26255	37420
West Fork abv BrushyCk	128.2	3548	12045	21400	26440	38049
West Fork S030	62.3	2780	9828	17442	21563	30357
West Fork J010	190.5	6299	21771	38681	47826	68250
West Fork R020	190.5	4560	18425	34531	43440	62785
West Fork S040	40.5	2182	7513	13143	16113	22442
West Fork J020	231.0	5973	24063	45193	56796	81484
West Fork R030	231.0	3062	14951	33398	45047	70310
West Fork S050	32.0	2407	7184	12244	14900	20333
West Fork abv CameronCk	263.0	3136	15712	35887	49139	77336
West Fork S060	69.1	3625	10829	19100	23700	33065
West Fork J030	332.1	5839	20260	47394	65314	102673
West Fork R040	332.1	3855	18765	43641	60095	96717
West Fork S070	50.4	2928	9611	16731	20551	29164
West Fork J040	382.5	5096	20443	48027	66500	108286
West Fork R050	382.5	4319	20069	46775	64439	105714
West Fork S080	19.5	2076	5957	9751	11680	15668
West Fork abv TurkeyCk	402.0	4360	20187	47096	65032	107488
West Fork S090	37.1	2249	6948	12055	14797	20407
West Fork J050	439.1	4699	21309	49900	69226	115424
West Fork R060	439.1	4391	19499	46576	65366	110659
West Fork S100	37.7	2776	8109	13628	16626	22763
West Fork J060	476.8	4450	19691	47493	66994	115012
West Fork R070	476.8	3700	16593	39083	55961	96097

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork S120	50.1	2044	5390	11655	15156	23192
West Fork S110	22.3	1271	4048	7020	8618	11899
WestFork abv Big Cleveland	549.3	3729	16749	40022	57760	100739
Big Cleveland S010	51.3	1774	3413	9664	13739	24963
Big Cleveland R010	51.3	1425	2685	7625	11332	22518
Big Cleveland S020	47.3	2257	6053	12691	16259	24237
Big Cleveland abv WestFork	98.6	3022	7359	15964	21949	41358
West Fork J070	647.9	6703	17536	41816	61846	111037
West Fork R080	647.9	3667	16152	39620	58470	106352
West Fork S130	20.9	2280	6518	10464	12518	16779
West Fork J080 Gage	668.8	3689	16232	39779	58674	106654
West Fork R090	668.8	3674	16079	39223	57833	105461
WestFork abv Lost Ck	668.8	3674	16079	39223	57833	105461
Lost Ck S010	28.8	1855	6846	11283	13602	18439
Lost Creek Reservoir	28.8	305	2051	7998	11019	17027
Lost Ck R010	28.8	293	1688	4790	7121	11784
Lost Ck S020	13.5	348	5558	8695	10280	13597
Lost Ck abv WestFork	42.3	363	5574	8713	10304	13734
West Fork + Lost Ck	711.1	3833	16926	40377	59405	108896
West Fork R100	711.1	3771	16247	38695	56972	104939
West Fork S140	39.5	267	11517	20960	25365	34323
West Fork abv CarrollCk	750.6	3774	16428	39097	57501	105747
West Fork S150	41.3	718	12388	20378	24440	32823
West Fork J090	791.9	3783	24931	42721	58024	106538
West Fork R110	791.9	3742	16320	38819	57029	104636
West Fork S160	35.7	898	12331	19845	23602	31435
WestFork abv Beans Ck	827.6	3754	16537	39263	57612	105524
Beans Ck S010	35.7	714	12871	20699	24595	32711
Beans Ck R010	35.7	537	9928	17742	21207	29130
Beans Ck S020	11.3	384	6840	10338	12002	15601
Beans Ck abv WestFork	47.0	628	11710	21433	25899	35847
West Fork + Beans Ck	874.6	3769	24217	41856	58561	106962
Big Ck S010	50.6	455	16116	26409	31574	42264
Big Ck J010	50.6	455	16116	26409	31574	42264
Big Ck R010	50.6	413	15133	25102	30211	40554
Big Ck S021	3.2	191	2453	3554	4058	5179
Big Ck J030 Abv	53.8	428	15414	25748	31062	41773
Big Ck S022	3.6	327	3760	5307	6001	7567
Big Ck J020	3.6	327	3760	5307	6001	7567

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Ck_R020	3.6	227	2923	4283	4912	6281
Big_Ck_S023	1.1	127	1433	1992	2240	2803
Big_Ck_J030 blw	58.5	570	15853	26649	32253	43478
Big_Ck_R030	58.5	464	15100	25610	31142	42086
Big_Ck_S024	5.7	595	4285	6192	7065	9017
Big_Ck_J040	64.2	838	15470	26523	32388	43891
Big_Ck_S031	4.4	274	4178	5912	6705	8493
Big_Ck_J050	4.4	274	4178	5912	6705	8493
Big_Ck_R040	4.4	79	1695	2726	3272	4447
Big_Ck_S032	4.3	196	3076	4459	5106	6540
Big_Ck_J100 abv	8.6	232	4099	6203	7286	9671
Big_Ck_S033	2.4	148	2260	3200	3631	4600
Big_Ck_J060	2.4	148	2260	3200	3631	4600
Big_Ck_S034	1.4	108	1620	2259	2547	3200
Big_Ck_J070	1.4	108	1620	2259	2547	3200
Big_Ck_J080	3.8	246	3750	5289	5990	7573
Big_Ck_R050	3.8	187	3164	4610	5262	6741
Big_Ck_S035	2.1	139	2121	2990	3386	4280
Big_Ck_J090	5.9	309	5122	7412	8447	10786
Big_Ck_R060	5.9	287	4872	7036	7877	10239
Big_Ck_S036	0.3	30	482	665	747	933
Big_Ck_J100 blw	14.8	524	8945	13242	15180	19807
Big_Ck_R070	14.8	89	4834	8658	10729	15030
Big_Ck_S037	4.6	442	3888	5536	6296	8004
Big_Ck_J110	19.4	467	6539	11540	14242	19768
Big_Ck_J120	83.6	1268	19323	33264	40785	55605
Big_Ck_R080	83.6	1268	19323	33263	40784	55601
Big_Ck abv Bridgeport	83.6	1268	19323	33263	40784	55601
Boons_Ck_S010	15.7	46	9479	14400	16735	21780
Boons_Ck_J010	15.7	46	9479	14400	16735	21780
Boons_Ck_R010	15.7	36	9092	13639	16265	20959
Boons_Ck_S020	2.0	109	2132	3043	3457	4407
Boons_Ck_J020	2.0	109	2132	3043	3457	4407
Boons_Ck_S030	0.8	21	953	1349	1527	1941
Boons_Ck_J030 abv	18.4	129	10017	15149	18191	23366
Boons_Ck_S040	4.6	42	3863	5657	6484	8334
Boons_Ck_J030 blw	23.0	160	12787	19716	23190	29928
Boons_Ck_R020	23.0	68	7440	12527	15253	21226
Boons_Ck_S050	6.3	73	3820	5791	6726	8749

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Boons Ck J040	29.3	115	8901	15186	18580	26121
Boons Ck R030	29.3	71	7154	12650	15729	22386
Boons Ck S060	2.3	30	1622	2423	2798	3621
Boons Ck J060 abv	31.7	73	7222	12920	16148	23116
Boons Ck S070	2.9	27	2424	3554	4077	5243
Boons Ck J050	2.9	27	2424	3554	4077	5243
Boons Ck R040	2.9	13	1258	2013	2410	3228
Boons Ck S080	5.2	45	4000	5909	6796	8762
Boons Ck J060 blw	39.8	98	7885	14555	18395	26649
Boons Ck R050	39.8	50	7599	14037	17806	25942
Boons Ck S090	3.8	178	3351	4874	5574	7150
Boons Ck J070 abv Willow Ck	43.6	189	7729	14244	18196	26735
Willow Ck S010	5.3	411	6703	9347	10520	13183
Willow Ck J010	5.3	411	6703	9347	10520	13183
Willow Ck R010	5.3	61	2347	3691	4344	5749
Willow Ck S020	1.4	138	2101	2899	3252	4051
Willow Ck J020 abv	6.7	163	3162	5014	5861	7603
Willow Ck S030	2.4	158	2604	3674	4153	5236
Willow Ck J020 blw	9.2	305	5766	8663	9978	12818
Willow Ck R020	9.2	111	3436	5101	5934	7819
Willow Ck S040	1.6	144	2329	3217	3610	4499
Willow Ck J030 abv	10.8	192	3963	6101	7061	8933
Willow Ck S050	4.9	239	3667	5330	6092	7786
Willow Ck J030 blw	15.6	381	7590	11139	12804	16421
Willow Ck R030	15.6	373	7194	10534	12531	16048
Willow Ck S060	0.2	21	320	435	486	600
Willow Ck J040 abv	15.8	374	7211	10572	12584	16122
Willow Ck S070	1.4	115	1871	2595	2916	3643
Willow Ck J040 blw	17.2	432	7765	11361	13641	17467
Willow Ck R040	17.2	367	7429	10977	13044	16982
Willow Ck S080	5.4	258	4329	6254	7131	9087
Willow Ck J050	22.5	598	11413	16502	19312	25059
Willow Ck R050	22.5	559	10490	15799	17951	24279
Willow Ck S090	3.2	170	2374	3454	3950	5052
Boons Ck J070 blw Willow Ck	69.3	812	17518	29582	35467	49467
Boons Ck R060	69.3	241	16059	27957	34331	47455
Coal Bed Br S010	5.1	237	3998	5794	6615	8442
Coal Bed Br R010	5.1	95	3743	5580	6412	8256
Boons Ck S100	1.7	577	2683	3659	4087	5072

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Boons Ck J080	76.2	613	17959	31949	38897	54210
Jasper Ck S010	20.0	269	7020	11334	13485	17959
Jasper Ck R010	20.0	87	5165	9121	11005	15337
Jasper Ck S020	4.8	355	4634	6672	7605	9724
Jasper Ck abv Bridgeport	24.9	363	5348	9616	11734	16558
Bridgeport S002	21.8	6856	14293	20067	22742	28947
Bridgeport S001	14.9	3684	12127	17155	19481	24744
Bridgeport Inflow	1096.0	13021	80126	135431	163986	228071
Bridgeport Reservoir	1096.0	4678	12170	21042	29609	72025
WHA Bridgeport Outflow		2547	11619	13252	21082	38972
West Fork S162	11.8	426	7311	13560	15930	20314
West Fork J100	11.8	426	7311	13560	15930	20314
West Fork S161	1.7	132	1524	2180	2479	3150
West Fork R120		2514	11619	13251	21080	38968
West Fork J110		2519	11658	15690	21157	39086
West Fork R130		2519	11658	15290	21157	39086
West Fork S163	8.9	879	8884	12586	14254	18037
West Fork J120		2527	15934	26124	30815	39512
West Fork R140		2527	15753	25949	30653	39338
West Fork S164	2.7	339	3901	5386	6036	7533
West Fork J130		2529	16691	27303	32579	42198
West Fork R150		2517	11714	19203	23518	39211
West Fork S165	5.0	1141	5866	8152	9163	11503
West Fork J140		2528	13484	20957	25771	39268
West Fork R160		2506	11737	14167	21275	39265
West Fork S166	9.2	894	8110	11596	13185	16760
West Fork abv Dry Ck		2514	12304	17549	21329	39347
Dry Ck S010	5.7	515	5673	8039	9106	11528
Dry Ck J010	5.7	515	5673	8039	9106	11528
Dry Ck R010	5.7	328	5521	7937	8958	11391
Dry Ck S020	0.8	255	1761	2377	2648	3258
Dry Ck J020 abv	6.5	343	5670	8221	9313	11886
Dry Ck S030	3.8	298	4194	5900	6660	8398
Dry Ck J020 blw	10.3	486	9569	13899	15692	19976
Dry Ck R020	10.3	163	4268	8518	10712	14919
Dry Ck S040	2.3	385	4073	5549	6195	7671
Dry Ck J030	12.6	440	4487	9072	11476	16072
Dry Ck R030	12.6	320	3922	8233	10631	15341
Dry Ck S050	0.5	43	918	1249	1395	1724

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dry Ck J040 abv	13.1	359	3934	8305	10739	15521
Dry Ck S060	2.0	110	2315	3253	3670	4624
Dry Ck J040 blw	15.1	456	5293	8842	11658	17561
Dry Ck R040	15.1	405	4376	8669	11349	16955
Dry Ck S070	1.5	294	456	1454	2237	3827
Dry Ck J050	1.5	294	456	1454	2237	3827
Dry Ck R050	1.5	187	335	1075	1703	3043
Dry Ck S080	0.6	77	1139	1547	1727	2133
Dry Ck J060 abv	2.0	202	1230	1710	1977	3444
Dry Ck J060 blw	17.1	606	4795	9472	12612	19487
Dry Ck R060	17.1	361	3330	6743	8906	13821
Dry Ck S090	3.8	223	4206	5923	6689	8436
Dry Ck J070	21.0	494	5771	8350	9744	14954
Dry Ck R070	21.0	468	5124	7758	9432	14850
Dry Ck S100	2.1	184	2907	4029	4522	5656
Dry Ck J080	2.1	184	2907	4029	4522	5656
Dry Ck R080	2.1	180	2850	3974	4468	5612
Dry Ck J090	23.1	553	7062	10451	12254	16685
Dry Ck R090	23.1	379	3248	6492	8735	13903
Dry Ck S110	4.2	510	4662	6536	7370	9284
Dry Ck abv West Fork	27.3	672	6371	9262	10894	15067
West Fork blw Dry Ck		2533	18245	26293	30684	42604
West Fork R170		2501	14502	24067	28669	42181
West Fork J160 abv		2501	14502	24067	28669	42181
West Fork S171	2.6	165	4150	5703	6380	7940
West Fork J150	2.6	165	4150	5703	6380	7940
West Fork R180	2.6	15	1245	2445	3080	4182
West Fork S172	1.9	101	2392	3335	3751	4707
West Fork J160 blw		2504	15516	26491	31760	43672
West Fork R190		2464	13080	23915	29641	43283
Amon G Carter S030	40.3	2613	8971	15444	18637	26015
Amon G Carter S010	38.6	729	4032	9860	13326	22863
Amon G Carter S020	30.6	1171	6126	10920	13346	18887
Amon G Carter Inflow	109.5	4503	19044	35998	45059	67663
Amon G Carter Lake	109.5	280	1271	7153	12457	30066
Big Sandy Ck R010	109.5	277	1267	6734	12047	29123
Big Sandy Ck S010	42.0	2428	7405	13170	16106	22742
Big Sandy Ck J010	151.5	2496	7497	13311	16553	40066
Big Sandy Ck R020	151.5	2408	7363	13134	16457	39851

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big Sandy Ck S011	1.4	596	1512	2132	2409	3037
Big Sandy Ck J030 abv	152.9	2419	7392	13176	16498	39909
Big Sandy Ck S012	1.0	122	131	451	734	1348
Big Sandy Ck J020	1.0	122	131	451	734	1348
Big Sandy Ck R030	1.0	117	127	428	696	1309
Big Sandy Ck J030 blw	153.9	2424	7402	13229	16512	39951
Big Sandy Ck R040	153.9	2210	6980	12787	16281	39436
Big Sandy Ck S013	1.0	225	627	930	1072	1382
Big Sandy Ck J040	155.0	2214	6995	12833	16301	39468
Big Sandy Ck R050	155.0	2197	6962	12794	16284	39427
Big Sandy Ck S014	1.8	368	1021	1518	1753	2264
Big Sandy Ck J050 abv	156.7	2205	6989	12873	16315	39480
Big Sandy Ck S015	4.3	523	1535	2396	2823	3726
Big Sandy Ck J050 blw	161.0	2284	7296	13542	16915	39804
Big Sandy Ck R060	161.0	1945	6431	12592	15911	38582
Big Sandy Ck S016	3.3	297	925	1509	1801	2409
Big Sandy Ck J060	164.4	1974	6580	12968	16460	38828
Big Sandy Ck R070	164.4	1846	6232	12557	16023	38287
Big Sandy Ck S017	4.7	449	1369	2310	2762	3696
Big Sandy Ck J070 abv	169.0	1862	6319	12830	16466	38481
Pringle Ck S010	7.8	884	2640	4150	4904	6493
Pringle Ck J010	7.8	884	2640	4150	4904	6493
Pringle Ck R010	7.8	767	2315	3647	4347	5824
Pringle Ck S020	5.6	603	1807	2856	3382	4489
Pringle Ck J030 abv	13.4	1348	4058	6396	7603	10163
Pringle Ck S030	3.0	665	1850	2740	3157	4069
Pringle Ck J020	3.0	665	1850	2740	3157	4069
Pringle Ck R020	3.0	482	1345	2090	2451	3279
Pringle Ck S040	1.5	273	776	1164	1349	1748
Pringle Ck J030 blw	17.9	1826	5584	8777	10400	13874
Pringle Ck R030	17.9	1634	4914	8049	9714	13204
Pringle Ck S050	2.9	637	1769	2615	3012	3880
Pringle Ck J040	20.8	1769	5328	8874	10775	14751
Pringle Ck R040	20.8	1598	4914	8483	10369	14329
Pringle Ck S060	1.5	269	771	1158	1342	1741
Pringle Ck J050	22.2	1652	5089	8881	10892	15118
Big Sandy Ck J070 blw	191.3	2251	7171	15556	20265	39938
Big Sandy Ck R080	191.3	2029	7081	15385	20098	39629
Big Sandy Ck S018	1.5	271	781	1178	1368	1778

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big Sandy Ck abv Brushy Ck	192.8	2057	7095	15409	20142	39663
Brushy Ck S010	30.7	1731	5299	8998	11017	15548
Brushy Ck J010	30.7	1731	5299	8998	11017	15548
Brushy Ck R010	30.7	1522	4944	8595	10632	15136
Brushy Ck S021	7.2	428	1390	2742	3358	4724
Brushy Ck J020	37.9	1679	5564	10022	12528	18000
Brushy Ck R020	37.9	1620	5457	9897	12408	17902
Brushy Ck S022	0.9	216	609	904	1037	1362
Brushy Ck J030 abv	38.8	1624	5469	9915	12431	17966
Brushy Ck S023	4.3	373	1224	2273	2725	3742
Brushy Ck J030 blw	43.1	1660	5651	10399	13147	19168
Brushy Ck R030	43.1	1516	5357	10054	12802	18850
Brushy Ck S024	1.3	194	608	956	1116	1495
Brushy Ck J050 abv	44.4	1519	5370	10092	12878	19022
Brushy Ck S025	1.8	170	388	1045	1390	2087
Brushy Ck J040	1.8	170	388	1045	1390	2087
Brushy Ck R040	1.8	168	386	1036	1380	2073
Brushy Ck J050 blw	46.2	1523	5378	10136	12973	19248
Brushy Ck R050	46.2	1504	5339	10092	12927	19206
Brushy Ck S026	1.2	281	818	1219	1398	1838
Brusy Ck J060 abv GrapevineC	47.4	1509	5354	10115	12955	19278
Grapevine Ck S010	4.5	538	1738	2900	3410	4602
Grapevine Ck J010	4.5	538	1738	2900	3410	4602
Grapevine Ck R010	4.5	491	1650	2759	3215	4301
Grapevine Ck S020	1.2	270	801	1197	1374	1807
Grapevine Ck J030 abv	5.6	584	2003	3363	3935	5248
Grapevine Ck S030	1.0	70	43	366	628	1234
Grapevine Ck J020	1.0	70	43	366	628	1234
Grapevine Ck R020	1.0	62	40	351	602	1203
Grapevine Ck J030 blw	6.6	636	2039	3704	4505	6231
Grapevine Ck R030	6.6	625	1988	3677	4471	6218
Grapevine Ck S040	0.3	57	172	261	301	399
Grapevine Ck J040	6.9	653	2078	3847	4686	6524
Brusy Ck J060 blw GrapevineC	54.3	1530	5459	10422	13503	20459
Brushy Ck R060	54.3	1485	5364	10324	13404	20378
Brushy Ck S027	2.4	460	1373	2093	2418	3206
Brushy Ck J070	56.7	1493	5389	10365	13452	20574
Brushy Ck R070	56.7	1433	5250	10213	13312	20441
Brushy Ck S028	0.6	103	312	485	564	754

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Brushy Ck J080	57.3	1435	5256	10223	13328	20501
Brushy Ck R080	57.3	1375	5109	10050	13127	20257
Brushy Ck S029	1.4	140	436	716	849	1159
Brusy Ck J090 abv Dry Hollow	58.7	1378	5128	10112	13233	20504
Dry Hollow Br S010	2.3	351	1065	1877	2174	2818
Dry Hollow Br J010	2.3	351	1065	1877	2174	2818
Dry Hollow Br S020	1.3	74	29	505	842	1572
Dry Hollow Br J020	1.3	74	29	505	842	1572
Dry Hollow Br R010	1.3	57	24	480	804	1511
Dry Hollow Br S030	0.6	116	247	701	813	1036
Dry Hollow Br J030 abv	1.8	138	263	879	1308	2227
Dry Hollow Br J030 blw	4.1	461	1252	2746	3465	4997
Dry Hollow Br R020	4.1	461	1252	2744	3465	4991
Dry Hollow Br S040	1.4	74	21	537	904	1696
Dry Hollow Br J040	1.4	74	21	537	904	1696
Dry Hollow Br R030	1.4	66	19	522	882	1669
Dry Hollow Br S050	0.4	85	226	438	500	637
Dry Hollow Br J050	1.8	128	242	832	1270	2213
Dry Hollow Br J060	5.9	583	1446	3576	4730	7184
Dry Hollow Br R040	5.9	535	1378	3488	4563	6717
Dry Hollow Br S060	3.1	474	1418	2487	2879	3727
Dry Hollow Br J070	9.0	987	2779	5943	7404	10369
Dry Hollow Br R050	9.0	884	2436	5466	6903	9883
Dry Hollow Br S070	1.5	322	856	1428	1637	2100
Dry Hollow Br J080	10.4	1082	3012	6488	8099	11464
Dry Hollow Br R060	10.4	986	2771	6211	7826	11153
Dry Hollow Br S080	0.8	109	320	567	658	856
Dry Hollow Br J090 abv	11.2	1070	3033	6716	8420	11946
Brusy Ck J090 blw Dry Hollow	69.9	1405	5209	10294	13607	22099
Big Sandy Ck blw Brushy Ck	262.7	3374	12244	25581	33734	53694
Big Sandy Ck R090	262.7	3358	12224	25557	33712	53671
Big Sandy Ck S021	0.7	181	523	769	878	1121
Big Sandy Ck J080 abv	263.4	3361	12233	25571	33729	53692
Chicken Ck S010	1.6	298	898	1361	1571	2030
Chicken Ck J010	1.6	298	898	1361	1571	2030
Chicken Ck S020	1.0	83	53	423	713	1338
Chicken Ck J020	1.0	83	53	423	713	1338
Chicken Ck R010	1.0	79	52	405	690	1316
Chicken Ck J030	2.6	377	925	1749	2258	3339

Hydrologic Element	Draianage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Chicken Ck R020	2.6	249	675	1348	1739	2624
Chicken Ck S030	2.7	397	1226	1902	2215	2887
Chicken Ck J040	5.3	637	1870	3201	3905	5476
Big Sandy Ck J080 blw	268.7	3374	12275	25657	33925	53820
Big Sandy Ck R100	268.7	3352	12246	25625	33899	53790
Big Sandy Ck S022	0.7	148	440	660	759	976
Big Sandy Ck J090 abv	269.4	3355	12254	25638	33914	53809
Big Sandy Ck Trib S010	1.2	192	433	1043	1319	1796
Big Sandy Ck Trib J010	1.2	192	433	1043	1319	1796
Big Sandy Ck Trib R010	1.2	175	403	982	1246	1716
Big Sandy Ck Trib S020	0.7	209	504	728	828	1053
Big Sandy Ck Trib J020	1.9	332	779	1563	1923	2607
Big Sandy Ck Trib R020	1.9	275	648	1284	1604	2243
Big Sandy Ck Trib S030	0.7	188	524	768	877	1119
Big Sandy Ck Trib J030	2.6	393	990	1759	2167	3008
Big Sandy Ck J090 blw	272.0	3365	12280	25686	33984	53885
Big Sandy Ck R110	272.0	3328	12226	25630	33940	53830
Big Sandy Ck S023	0.4	84	253	380	438	564
Big Sandy Ck J120 abv	272.4	3329	12230	25637	33949	53841
Big Sandy Ck S024	2.0	162	132	732	1176	2139
Big Sandy Ck J100	2.0	162	132	732	1176	2139
Big Sandy Ck R115	2.0	85	85	506	847	1653
Big Sandy Ck S025	1.3	350	1018	1493	1704	2174
Big Sandy Ck J110	3.3	377	1045	1576	1854	2787
Big Sandy Ck J120 blw	275.7	3338	12257	25719	34097	53952
Big Sandy Ck R120	275.7	3337	12255	25718	34096	53950
Mudhole Br S010	2.6	384	1187	1843	2147	2799
Mudhole Br J010	2.6	384	1187	1843	2147	2799
Mudhole Br R010	2.6	312	972	1600	1909	2557
Mudhole Br S020	1.1	207	622	943	1089	1406
Mudhole Br J020	3.7	446	1390	2271	2720	3644
Big Sandy Ck J130	279.4	3347	12289	25785	34237	54242
Big Sandy Ck R130	279.4	3264	12157	25646	34140	54213
Big Sandy Ck S026	3.4	275	849	1408	1683	2258
Big Sandy Ck J160 abv	282.8	3271	12220	25870	34549	55334
Big Sandy Ck S027	1.4	199	432	1155	1509	2105
Big Sandy Ck J140	1.4	199	432	1155	1509	2105
Big Sandy Ck R140	1.4	177	371	999	1338	1923
Big Sandy Ck S028	1.8	292	886	1366	1588	2065

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big Sandy Ck J150	3.2	460	1257	2356	2900	3933
Big Sandy Ck J160 blw	286.1	3279	12243	26171	34610	55849
Big Sandy Ck R150	286.1	3279	12243	26171	34610	55849
Briar Br S010	3.6	414	1251	1949	2295	3030
Briar Br J010	3.6	414	1251	1949	2295	3030
Briar Br S020	1.6	214	654	1019	1193	1564
Briar Br J020	1.6	214	654	1019	1193	1564
Briar Br J030	5.3	616	1879	2930	3447	4545
Briar Br R010	5.3	604	1842	2884	3400	4479
Briar Br S030	0.7	187	507	740	848	1085
Briar Br J040	6.0	692	2112	3309	3904	5142
Briar Br R020	6.0	689	2096	3276	3864	5096
Briar Br S040	0.3	75	197	287	329	422
Briar Br J050 abv	6.3	728	2204	3441	4058	5354
Walkers Br S010	2.7	306	939	1481	1744	2302
Walkers Br J010	2.7	306	939	1481	1744	2302
Walkers Br S020	1.2	158	317	783	1079	1610
Walkers Br J020	1.2	158	317	783	1079	1610
Walkers Br R010	1.2	144	301	753	1038	1570
Walkers Br J030	3.9	418	1207	2114	2607	3583
Walkers Br R020	3.9	404	1177	2080	2573	3542
Walkers Br S030	1.2	290	798	1166	1336	1710
Walkers Br J040	5.1	552	1624	2828	3489	4785
Walkers Br R030	5.1	551	1623	2823	3429	4784
Walkers Br S040	0.3	78	207	300	342	437
Walkers Br J050	5.4	595	1743	3013	3638	5110
Briar Br J050 blw	11.7	1308	3918	6384	7652	10242
Briar Br R030	11.7	787	2751	4987	6253	8769
Briar Br S050	1.6	221	650	997	1166	1528
Briar Br J060	13.3	906	3165	5694	7126	9968
Briar Br R040	13.3	833	2989	5486	6895	9713
Briar Br S060	2.7	271	819	1291	1528	2030
Briar Br J070	16.1	1005	3605	6561	8219	11535
Big Sandy Ck J170	302.1	3890	13947	31062	40618	63615
Big Sandy Ck R160	302.1	3778	13368	29540	39010	62732
Big Sandy Ck S031	3.9	392	1228	2038	2416	3208
Big Sandy Ck J180	306.0	3841	13590	30182	39879	64117
Big Sandy Ck R170	306.0	3813	13451	29847	39557	63912
Big Sandy Ck S032	2.2	298	860	1320	1546	2029

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big Sandy Ck J190	2.2	298	860	1320	1546	2029
Big Sandy Ck R180	2.2	284	845	1307	1532	2014
Big Sandy Ck J200	2.2	284	845	1307	1532	2014
Big Sandy Ck J210 abv	308.3	3844	13550	30128	39947	64593
Big Sandy Ck S033	0.9	139	407	618	719	938
Big Sandy Ck J210 blw	309.2	3850	13570	30199	40058	64806
Big Sandy Ck R190	309.2	3832	13485	29988	39854	64662
Big Sandy Ck S034	3.3	367	1090	1701	2007	2654
Big Sandy Ck J220 abv	312.5	3879	13639	30409	40439	65714
Watson Br S010	4.1	467	1412	2200	2591	3421
Watson Br J010	4.1	467	1412	2200	2591	3421
Watson Br R010	4.1	464	1409	2197	2588	3418
Watson Br S020	2.7	287	697	1487	1925	2753
Watson Br J020	2.7	287	697	1487	1925	2753
Watson Br R020	2.7	282	688	1472	1910	2738
Watson Br J030	6.8	720	2070	3600	4401	6004
Watson Br R030	6.8	655	1893	3358	4130	5676
Watson Br S030	2.1	343	972	1468	1706	2221
Watson Br J040	8.9	896	2616	4524	5518	7532
Watson Br R040	8.9	689	2189	4015	4996	6992
Watson Br S040	0.2	30	88	134	156	203
Watson Br J050 abv	9.1	701	2233	4095	5096	7131
Twin Pond CK S010	3.8	437	1264	1963	2311	3052
Twin Pond CK J010	3.8	437	1264	1963	2311	3052
Twin Pond Ck R010	3.8	344	1068	1743	2084	2814
Twin Pond CK S020	2.8	346	1027	1588	1865	2454
Twin Pond CK J020	6.6	618	1921	3134	3731	5037
Watson Br J050 blw	15.7	1275	4047	7114	8731	12075
Watson Br R050	15.7	1253	4005	7066	8696	12035
Watson Br S050	0.6	118	339	507	587	759
Watson Br J060	16.3	1291	4140	7320	9015	12488
Big Sandy Ck J220 blw	328.8	4302	14709	33178	44098	71990
Big Sandy Ck R200	328.8	4203	14425	32345	43145	70882
Big Sandy Ck S035	5.2	666	1972	3042	3567	4687
Big Sandy Ck J230 Gage	334.0	4262	14571	32776	43789	72208
Big Sandy Ck R210	334.0	4188	14457	32484	43534	71766
Big Sandy Ck S041	1.9	107	2238	3135	3533	4444
Big Sandy Ck J240 abv	335.9	4190	14477	32514	43569	71884
Waggoner Br S010	3.3	449	4176	5798	6513	8165

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Waggoner Br J010	3.3	449	4176	5798	6513	8165
Waggoner Br R010	3.3	347	3024	4187	4730	6061
Waggoner Br S020	3.9	436	5024	6975	7832	9814
Waggoner Br J020	7.2	741	7614	10538	11850	14935
Waggoner Br R020	7.2	471	4488	7154	8386	11203
Waggoner Br S030	2.2	130	2768	3856	4336	5439
Waggoner Br J030 abv	9.4	513	5152	8690	10330	13979
Rosebud Br S010	0.8	32	109	876	1603	2798
Rosebud Br J010	0.8	32	109	876	1603	2798
Rosebud Br R010	0.8	23	83	624	1142	2164
Rosebud Br S020	0.9	55	1992	2700	3013	3711
Rosebud Br J020	1.7	74	2017	2870	3491	5260
Rosebud Br R020	1.7	51	1118	1837	2370	3908
Rosebud Br S030	0.4	20	711	968	1081	1336
Rosebud Br J040	2.0	70	1746	2663	3256	5006
Waggoner Br J030 blw	11.4	544	5777	9994	12094	16606
Waggoner Br R030	11.4	441	4258	7696	9503	13613
Waggoner Br S040	1.1	52	1227	1726	1949	2458
Waggoner Br J040	12.5	447	4371	8100	10178	14901
Big Sandy Ck J240 blw	348.4	4230	14650	33020	44528	73797
Big Sandy Ck R220	348.4	4227	14644	33006	44505	73774
Big Sandy Ck S042	1.8	76	2178	3041	3422	4297
Big Sandy Ck J250	350.2	4228	14663	33035	44539	73879
Big Sandy Ck R230	350.2	4189	14603	32889	44369	73643
Big Sandy Ck S043	3.2	94	3115	4432	5027	6371
Big Sandy Ck J260	353.4	4191	14630	32931	44418	73831
West Fork abv Big Sandy Ck		2464	13080	23915	29641	43283
West Fork blw Big Sandy Ck		4692	22195	45533	59841	97479
West Fork R200		4684	22167	45480	59799	97402
West Fork S181	1.5	75	1759	2466	2781	3500
West Fork J170		4685	22184	45503	59827	97502
West Fork R210		4311	20007	44328	58697	95088
West Fork S182	0.1	7	166	231	260	325
West Fork J190 abv		4312	20009	44331	58699	95095
West Fork S183	2.4	168	3853	5290	5917	7357
West Fork J180	2.4	168	3853	5290	5917	7357
West Fork R220	2.4	57	2166	3417	3960	5162
West Fork S184	4.5	267	4244	6048	6865	8712
West Fork J190 blw		4319	20091	44451	58845	95528

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork R230		4265	19957	44223	58662	95128
Martin Br S010	4.1	942	5021	6960	7815	9802
Martin Br J010	4.1	942	5021	6960	7815	9802
Martin Br R010	4.1	543	3639	5522	6361	8243
Martin Br S020	3.7	234	5843	8033	8987	11186
Martin Br J020	7.8	591	6838	10227	11794	15284
Martin Br R020	7.8	476	4321	6937	8140	11027
Martin Br S030	3.4	203	4923	6803	7626	9522
Martin Br J030	11.3	501	8300	12450	14308	18572
Martin Br R030	11.3	476	7018	11188	13076	17478
Martin Br S040	0.2	12	344	466	521	642
Martin Br J060 abv	11.4	477	7057	11259	13163	17600
Martin Br S050	5.3	292	6223	9287	10445	13108
Martin Br J040	5.3	292	6223	9287	10445	13108
Martin Br R040	5.3	189	4075	7088	8243	10798
Martin Br S060	5.0	193	5191	7349	8317	10517
Martin Br J050	10.3	382	9003	14314	16457	21251
Martin Br J060 blw	21.7	794	16053	25573	29620	38851
West Fork S185	0.2	11	303	413	461	570
West Fork J200		4298	20226	44657	59283	96732
West Fork R240		4038	19573	43489	57940	94081
West Fork S191	4.1	247	4191	5933	6715	8492
West Fork J210		4040	19609	43544	58004	94260
West Fork R250		3717	18230	39875	54447	88329
West Fork S192	6.7	393	7427	10458	11810	14894
West Fork J220 abv Salt Ck		3720	18289	39966	54555	88476
Garrett Ck S001	2.8	64	98	2714	4768	8703
Garrett Ck J010	2.8	64	98	2714	4768	8703
Garrett Ck R010	2.8	37	57	1926	3231	6218
Garrett Ck S002	1.6	20	2433	3748	4190	5195
Garrett Ck J030 abv	4.4	42	2464	4083	5323	9023
Garrett Ck S003	2.7	30	46	2500	4414	8109
Garrett Ck J020	2.7	30	46	2500	4414	8109
Garrett Ck R020	2.7	18	28	1706	3216	6680
Garrett Ck S004	0.4	11	731	1071	1196	1473
Garrett Ck J030 blw	7.4	63	3044	5037	7771	15784
Garrett Ck R030	7.4	30	798	2547	3694	6670
Garrett Ck S005	5.9	89	4013	8654	9798	12393
Garrett Ck J040	13.4	102	4616	9853	11316	15237

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Garrett Ck R040	13.4	67	2648	6651	8172	12084
Garrett Ck S006	1.7	47	71	2291	3884	6277
Garrett Ck J050	1.7	47	71	2291	3884	6277
Garrett Ck R050	1.7	38	58	1871	3279	5742
Garrett Ck J060 blw	15.1	75	2657	7214	8869	12975
Garrett Ck R060	15.1	62	2056	6137	7886	12072
Garrett Ck S007	3.8	64	3689	6252	7049	8872
Garrett Ck J070	18.9	106	4438	9207	11262	16239
Garrett Ck R070	18.9	56	2001	5383	7043	11315
Garrett Ck S008	3.6	155	2914	5065	5740	7270
Garrett Ck J080 abv	22.5	191	4376	8056	9701	13967
Rush Ck S010	7.7	58	88	4846	8168	15407
Rush Ck J010	7.7	58	88	4846	8168	15407
Rush Ck R010	7.7	30	47	3023	5341	10958
Rush Ck S020	1.6	36	2301	3504	3920	4877
Rush Ck J020	9.3	45	2315	3575	5704	11624
Rush Ck R020	9.3	32	1531	2961	5099	10598
Rush Ck S050	0.7	19	1272	1822	2034	2509
Rush Ck J040 abv	9.9	36	2092	3574	5208	10797
Rush Ck S030	5.7	103	6087	9854	11090	13927
Rush Ck J030	5.7	103	6087	9854	11090	13927
Rush Ck R030	5.7	71	4756	8452	9685	12450
Rush Ck S040	1.0	40	1742	2566	2866	3550
Rush Ck J040 blw	16.6	117	6389	11770	13707	18909
Rush Ck R040	16.6	82	3989	8657	10629	16209
Rush Ck S060	3.3	82	5386	8025	8970	11119
Rush Ck J050	20.0	122	6743	11777	13725	18366
Rush Ck R050	20.0	81	3712	8385	10568	16615
Rush Ck S070	1.3	25	1527	2420	2716	3399
Garrett Ck J080 blw	43.8	274	8455	16401	20081	29978
Garrett Ck R080	43.8	272	8336	16362	20065	29939
Garrett Ck S009	1.4	29	1820	2820	3159	3940
Garrett Ck J090	45.2	287	9037	17380	20752	30590
Garrett Ck R090	45.2	251	6666	15000	18938	29416
Garrett Ck S031	5.8	350	6969	9749	10980	13802
Garrett Ck J100	50.9	568	10238	19001	23018	32719
Garrett Ck R100	50.9	441	6629	15374	19697	30731
Garrett Ck S032	3.3	237	4817	6652	7454	9304
Garrett Ck J110	54.2	546	7874	15774	20256	31513

Hydrologic Element	Draianage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Garrett Ck R110	54.2	92	6107	15036	19611	30997
Garrett Ck S033	4.2	233	3961	5652	6418	8148
Garrett Ck J120	58.5	280	6151	15456	20264	32040
Garrett Ck R120	58.5	55	4518	13036	17882	29363
Salt Ck S001	2.8	62	94	2567	4535	8325
Salt Ck J010	2.8	62	94	2567	4535	8325
Salt Ck R010	2.8	36	54	1705	3171	6414
Salt Ck S002	0.3	9	294	854	953	1171
Salt Ck J020	3.1	37	325	1795	3303	6653
Salt Ck S003	1.8	89	136	1530	2614	4828
Salt Ck J030	1.8	89	136	1530	2614	4828
Salt Ck R020	1.8	49	76	1410	2455	4682
Salt Ck S004	0.2	4	233	635	708	868
Salt Ck J040	2.0	50	266	1458	2528	4812
Salt Ck J050	5.1	86	553	3252	5830	11465
Salt Ck R030	5.1	42	132	1788	3249	6707
Salt Ck S005	2.8	47	1400	4532	5110	6433
Salt Ck J070 abv	7.9	62	1467	4904	5803	10355
Salt Ck S006	5.6	162	248	3463	5773	10795
Salt Ck J060	5.6	162	248	3463	5773	10795
Salt Ck R040	5.6	99	175	3021	5161	9758
Salt Ck S007	0.9	25	783	2377	2655	3280
Salt Ck J070 blw	14.4	142	1886	6508	10112	20122
Salt Ck R050	14.4	113	1059	5556	8827	15962
Salt Ck S008	3.0	48	1424	4643	5247	6624
Salt Ck J080 abv	17.4	117	2108	8419	10608	17287
Salt Ck S009	3.5	79	121	3706	5181	7341
Salt Ck J080 blw	21.0	167	2205	12086	15499	22237
Gonzollas Ck S010	2.8	49	1466	4729	5330	6704
Gonzollas Ck J010	2.8	49	1466	4729	5330	6704
Gonzollas Ck R010	2.8	10	371	2325	2857	3985
Gonzollas Ck S020	3.7	60	92	2494	4260	8046
Gonzollas Ck J020	6.5	64	382	4332	6296	10484
Gonzollas Ck R020	6.5	45	378	4006	5830	10167
Gonzollas Ck S030	0.5	23	359	1085	1212	1505
Salt Ck J090 blw GonzollasCK	28.0	207	2362	15426	20735	32645
Salt Ck R060	28.0	148	1604	12044	16881	28148
Salt Ck S011	3.2	77	3054	5033	5681	7160
Salt Ck J100 abv	31.1	190	3735	13379	18297	30609

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Pecan Br S010	2.6	33	164	2170	3103	4682
Pecan Br J010	2.6	33	164	2170	3103	4682
Salt Ck J100 blw Pecan Br	33.7	222	3806	15521	21297	34930
Salt Ck R070	33.7	202	3435	15121	20947	34464
Salt Ck S012	0.3	13	594	869	971	1200
Salt Ck J130 abv	34.1	203	3478	15189	21032	34606
Salt Ck S013	4.1	66	102	2768	4760	8986
Salt Ck J110	4.1	66	102	2768	4760	8986
Salt Ck R080	4.1	58	89	2509	4383	8538
Salt Ck S014	0.9	19	222	1618	2056	2569
Salt Ck J120	5.0	65	310	2913	4849	9913
Salt Ck J130 blw	39.0	260	3763	17904	25300	41666
Salt Ck R090	39.0	229	3113	17060	24290	40525
Salt Ck S015	0.2	4	282	421	470	583
Salt Ck J150 abv	39.2	229	3127	17090	24336	40601
Salt Ck S016	1.5	72	110	1537	2755	4901
Salt Ck J140	1.5	72	110	1537	2755	4901
Salt Ck R100	1.5	21	33	983	1719	3684
Salt Ck S017	1.5	48	2025	3132	3508	4376
Salt Ck J150 blw	42.2	254	3343	17980	25757	43017
Salt Ck R110	42.2	237	3085	17349	24992	42110
Salt Ck S018	2.8	38	1455	3723	4229	5371
Salt Ck J160 abv	45.0	243	4201	18617	27019	45769
Cottonwood Ck S010	1.3	35	54	1486	2723	4802
Cottonwood Ck J010	1.3	35	54	1486	2723	4802
Cottonwood Ck R010	1.3	4	7	406	851	1842
Cottonwood Ck S020	4.3	91	3486	5927	6721	8518
Salt Ck J160 blw Cottonwood	50.6	295	7479	22189	31508	53170
Salt Ck R120	50.6	241	5145	19259	27751	48325
Salt Ck S019	2.0	44	1684	2857	3239	4104
Salt Ck J170	52.6	246	6000	19730	28437	49813
Salt Ck R130	52.6	96	4524	19708	28438	49825
Salt Ck S021	2.2	137	2586	3625	4085	5140
Salt Ck J180 abv Garrett Ck	54.8	159	4559	20070	28990	50849
Garrett Ck S034	1.7	86	1625	2313	2624	3326
Salt Ck J180 blw Garrett Ck	115.0	264	6734	27229	39714	69297
Salt Ck R140	115.0	123	6641	26996	39276	68043
Salt Ck S022	1.8	60	1499	2162	2465	3143
Salt Ck J190 abv West Fork	116.8	123	6655	27154	39596	68902

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork J220 blw Salt Ck		3839	20918	48252	65801	106520
West Fork R260		3779	20849	48023	65527	106254
West Fork S201	0.6	33	823	1143	1284	1607
West Fork J230 abv		3779	20856	48033	65539	106270
Lola Ck S010	4.6	242	5383	7549	8511	10713
Lola Ck J010	4.6	242	5383	7549	8511	10713
Lola Ck R010	4.6	109	2745	4287	4993	6502
Lola Ck S020	4.4	157	3442	4993	5708	7298
West Fork J230 blw		3782	20930	48156	65701	106676
West Fork R270		3744	20879	47981	65510	106494
West Fork S202	0.7	42	1190	1628	1820	2258
West Fork J310 abv		3744	20889	47995	65526	106516
West Fork S203	6.2	369	6421	9082	10275	12990
West Fork J240	6.2	369	6421	9082	10275	12990
West Fork R280	6.2	202	4772	6830	7837	10175
West Fork S204	4.0	215	4765	6678	7526	9469
West Fork J250	10.2	262	7809	11224	12766	16381
West Fork S205	2.1	40	312	1694	2928	5498
West Fork J260	2.1	40	312	1694	2928	5498
West Fork R290	2.1	23	206	1157	2135	4102
West Fork S206	0.9	59	1376	1891	2115	2633
West Fork J270	3.0	79	1398	2220	3090	5717
West Fork J280	13.2	316	8453	12928	15593	21534
West Fork R300	13.2	37	8395	12858	15511	21410
West Fork S207	0.4	41	1036	1398	1560	1916
West Fork J290	13.6	50	8485	13010	15687	21678
West Fork R310	13.6	38	6974	11803	14468	20282
West Fork S208	0.8	56	1337	1837	2055	2556
West Fork J300	14.5	81	7102	12090	14831	20836
West Fork J310 blw		3765	21013	48196	65780	107116
West Fork R320		3762	21008	48181	65764	107100
Walker Ck S010	3.0	198	3990	5535	6213	7775
Walker Ck J010	3.0	198	3990	5535	6213	7775
Walker Ck R010	3.0	175	3429	4641	5509	7589
Walker Ck S020	1.7	117	2792	3835	4291	5336
West Fork J320		3764	21062	48262	65859	107234
West Fork R330		3716	20999	48056	65636	107037
West Fork S209	2.6	182	3235	4508	5070	6362
West Fork J330 Gage		3717	21024	48095	65682	107099

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork R340		3705	20958	47987	65556	106940
West Fork S211	1.6	56	766	1566	1795	2302
West Fork abv Deep Ck		3705	20973	48022	65600	107006
Deep Ck S10	2.7	36	1778	3552	4033	5113
Deep Ck J10	2.7	36	1778	3552	4033	5113
Deep Ck R10	2.7	25	1175	2762	3237	4303
Deep Ck S20	3.9	45	2142	4393	5016	6401
Deep Ck J20	6.6	65	3034	6831	7949	10442
Deep Ck R20	6.6	56	2549	6209	7327	9784
Deep Ck S30	1.5	20	985	1974	2242	2844
Deep Ck abv West Fork	8.1	68	3041	7469	8820	11816
West Fork blw Deep Ck		3707	21068	48242	65871	107404
West Fork R350		3702	21051	48213	65842	107371
West Fork S212	1.2	9	874	1720	1946	2457
West Fork J340		3702	21067	48249	65886	107433
West Fork R360		3690	20868	47894	65512	107067
West Fork abv Blue Ck		3690	20868	47894	65512	107067
Blue Ck S10	3.3	50	77	1668	2575	4438
Blue Ck J10	3.3	50	77	1668	2575	4438
Blue Ck R10	3.3	49	77	1659	2569	4434
Blue Ck S20	2.1	103	159	1362	2069	3466
Blue Ck J20	2.1	103	159	1362	2069	3466
Blue Ck R20	2.1	98	151	1302	1961	3355
Blue Ck S25	0.9	21	711	1377	1557	1963
Blue Ck J30	3.0	113	838	2231	3044	4892
Blue Ck J40	6.3	160	895	3601	5326	9005
Blue Ck R30	6.3	131	634	3004	4543	7949
Blue Ck S40	1.3	18	902	1787	2026	2563
Blue Ck J50	7.6	141	1435	3761	5492	9416
Blue Ck S30	2.4	24	1071	2269	2610	3357
Blue Ck J60	9.9	164	2330	5978	8028	12763
Blue Ck R40	9.9	161	2305	5959	7993	12728
Blue Ck S50	0.1	18	170	293	327	406
Blue Ck J70	10.1	163	2330	5991	8034	12791
Blue Ck R50	10.1	119	1667	5318	7110	11403
Blue Ck S60	0.8	33	468	928	1056	1343
Blue Ck abv West Fork	10.8	129	1881	5747	7605	12131
West Fork blw Blue Ck		3693	20936	48111	65815	107608
West Fork R370		3690	20924	48092	65797	107592

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork S213	1.0	72	840	1579	1782	2245
West Fork J350		3691	20938	48124	65836	107648
West Fork R380		3651	20524	47500	65131	106967
West Fork S214	4.2	181	1932	3937	4520	5807
West Fork J370 abv		3653	20557	47578	65230	107121
West Fork S215	2.8	68	1651	3327	3789	4823
West Fork J360	2.8	68	1651	3327	3789	4823
West Fork J370 blw		3654	20583	47642	65310	107241
West Fork R390		3650	20555	47600	65261	107189
Hog Branch S10	1.8	32	1649	3120	3513	4405
Hog Branch J10	1.8	32	1649	3120	3513	4405
Hog Branch R10	1.8	24	1205	2502	2881	3660
Hog Branch S20	4.6	62	3006	6020	6836	8669
Hog Branch J20	6.4	85	4211	8522	9711	12322
Hog Branch R20	6.4	74	3454	7569	8707	11217
Hog Brach S30	3.9	71	2251	4582	5225	6661
Hog Branch J30	10.3	141	5517	12004	13800	17740
Hog Branch R30	10.3	128	5363	11789	13598	17556
Hog Branch S40	0.2	12	262	455	509	631
Hog Branch abv West Fork	10.5	129	5386	11853	13686	17678
West Fork S216	0.8	12	560	1120	1271	1611
West Fork blw Hog Branch		3651	20674	47889	65621	107729
West Fork R400		3646	20652	47858	65577	107664
West Fork S217	0.2	6	216	402	452	566
West Fork abv Dry Fork		3647	20655	47865	65586	107676
Dry Fork S10	0.8	33	1011	1547	1737	2172
Dry Fork J10	0.8	33	1011	1547	1737	2172
Dry Fork R10	0.8	21	493	937	1089	1462
Dry Fork S20	1.0	31	1050	1656	1866	2342
Dry Fork abv West Fork	1.8	51	1427	2448	2822	3651
West Fork blw Dry Fork		3647	20685	47923	65657	107779
West Fork R410		3621	20526	47722	65401	107250
Eagle Mountain S001	0.3	9	128	231	268	348
West Fork abv Oastes Branch		3621	20528	47727	65407	107259
Oates Branch S10	1.7	112	1399	2263	2564	3244
Oates Branch J10	1.7	112	1399	2263	2564	3244
Oates Branch R10	1.7	87	1101	1922	2181	2794
Oates Brannch S30	1.6	57	1101	1842	2099	2674
Oates Branch J30	3.2	142	2184	3750	4264	5450

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Oates Branch S20	0.8	124	1177	1745	1955	2434
Oates Branch J20	0.8	124	1177	1745	1955	2434
Oates Branch R20	0.8	48	401	823	993	1371
Oates Branch S40	1.0	43	916	1478	1672	2112
Oates Branch J40	1.9	82	1144	2118	2474	3303
Oates Branch J50	5.1	224	3246	5786	6648	8625
Oates Branch R30	5.1	197	3067	5634	6502	8464
Oates Branch S50	1.1	84	1140	1773	1997	2509
Oates Branch J60	1.1	84	1140	1773	1997	2509
Oates Branch R40	1.1	59	899	1534	1765	2267
Oates Branch S60	2.5	108	1535	2611	2988	3826
Oates Branch J70	8.7	352	5338	9544	10961	14186
Oates Branch R50	8.7	352	5338	9544	10961	14186
Oates Branch S70	0.3	28	350	539	607	760
Oates Branch abv West Fork	9.0	364	5488	9838	11300	14624
West Fork blw Oates Branch		3625	20638	47949	65686	107674
West Fork R420		3625	20638	47949	65686	107674
Eagle Mountain S002	4.2	316	2476	4160	4761	6098
Eagle Mountain S003	2.2	314	1725	2740	3105	3934
West Fork J370		3629	20700	48077	65847	107922
West Fork R430		3629	20700	48077	65847	107922
Derrett Ck S30	3.4	138	2291	3852	4395	5608
Derrett Ck J30	3.4	138	2291	3852	4395	5608
Derrett Ck R30	3.4	136	2272	3820	4351	5524
Derrett Ck S40	0.6	108	1260	1784	1991	2456
Derrett Ck J50	4.1	149	2370	4038	4624	5894
Derrett Ck R50	4.1	43	2303	3924	4502	5728
Derrett Ck S50	0.8	72	804	1254	1413	1775
Derrett Ck J60	0.8	72	804	1254	1413	1775
Derrett Ck R60	0.8	38	365	746	882	1196
Derrett Ck S60	1.5	174	1405	2208	2492	3140
Derrett Ck J70	6.3	216	3514	6161	7115	9150
Derrett Ck abv Eagel Mountai	6.3	216	3514	6161	7115	9150
Derrett Ck R80	6.3	166	3468	6134	7088	9122
Eagle Mountain S004	1.0	344	943	1402	1578	1987
West Fork J380		3635	20798	48270	66087	108280
Briar Ck S10	5.5	175	4105	6814	7750	9851
Briar Ck J10	5.5	175	4105	6814	7750	9851
Briar Ck R10	5.5	36	3006	5782	6595	8710

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Briar Ck S20	2.5	194	1998	3243	3678	4661
Briar Ck abv Eagle Mountain	8.0	202	4180	8169	9390	12434
West Fork J390		3638	20886	48451	66316	108625
West Fork R440		3638	20886	48451	66316	108625
Eagle Mountain S005	0.8	485	1214	1706	1900	2353
West Fork J400		3641	20903	48482	66352	108677
West Fork R450		3641	20903	48482	66352	108677
Eagle Mountain S006	1.4	601	1802	2608	2915	3631
WestFork abv Eagle Mountain		3645	20929	48528	66409	108759
Indian Ck S010	5.1	560	3349	5502	6309	8218
Indian Ck J010 abv	5.1	560	3349	5502	6309	8218
Indian Ck S020	2.8	237	1872	3101	3557	4632
Indian Ck J020	2.8	237	1872	3101	3557	4632
Indian Ck J030 blw Trib	7.9	798	5213	8598	9861	12844
Indian Ck R010	7.9	664	4106	7307	8523	11409
Indian Ck S030	1.4	118	1043	1707	1953	2534
Indian Ck abv Moss Branch	9.3	748	4786	8550	9974	13366
Moss Branch S010	2.8	205	1807	3015	3462	4513
Moss Branch J010	2.8	205	1807	3015	3462	4513
Moss Branch R010	2.8	70	995	1909	2228	2937
Moss Branch S020	0.9	81	848	1340	1524	1960
Moss Branch abv Incdian Ck	3.6	83	1076	2143	2523	3339
Indian Ck blw Moss Branch	13.0	789	5692	10502	12306	16487
Indian Ck R020	13.0	472	4405	8869	10581	14499
Indian Ck S040	3.4	285	2369	3918	4492	5846
Indian Ck J040	16.4	568	5271	10962	13167	18203
Indian Ck R030	16.4	568	5271	10962	13167	18203
Indian Ck S050	2.5	477	1813	2863	3267	4236
Indian Ck abv West Fork	18.9	967	6397	12941	15535	21451
West Fork blw Indian Ck		3660	25945	48950	66942	109563
West Fork R460		3660	25945	48950	66942	109563
Gilmore Branch S010	5.4	405	4248	6944	7936	10278
Gilmore Branch J010	5.4	405	4248	6944	7936	10278
Gilmore Branch R010	5.4	175	2277	4546	5422	7459
Eagle Mountain S031	1.9	683	2275	3365	3794	4836
West Fork J410		3770	28933	54795	67108	109820
Swift Branch S010	1.7	234	2220	3353	3787	4817
Swift Branch J010	1.7	234	2220	3353	3787	4817
Swift Branch R010	1.7	234	2220	3353	3787	4817

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West Fork J420		3992	29555	55926	67156	109891
West Fork R470		3992	29555	55926	67156	109891
Walnut Ck S001	1.8	674	1911	2864	3259	4152
Walnut Ck J010	1.8	674	1911	2864	3259	4152
Walnut Ck R010	1.8	587	1796	2740	3122	3983
Walnut Ck S002	0.6	246	688	1013	1150	1459
Walnut Ck J020 abv	2.4	707	2250	3470	3957	5051
Walnut Ck S003	2.0	586	1730	2660	3043	3899
Walnut Ck J020 blw	4.3	1270	3980	6130	7000	8950
Walnut Ck R020	4.3	1058	3284	5350	6162	7963
Walnut Ck S004	2.5	662	1948	3029	3473	4460
Walnut Ck J030 abv	6.8	1536	4806	7930	9156	11877
Goshen Ck S010	3.0	774	2332	3633	4170	5360
Goshen Ck J010	3.0	774	2332	3633	4170	5360
Goshen Ck R010	3.0	764	2297	3608	4140	5283
Goshen Ck S020	0.9	296	849	1287	1468	1875
Walnut Ck J030 blw	10.7	2467	7571	12443	14353	18540
Walnut Ck R030	10.7	2143	6926	11619	13501	17705
Walnut Ck S005	1.4	414	1141	1747	1998	2561
Walnut Ck J050 abv	12.1	2324	7544	12740	14852	19483
Walnut Ck S006	1.9	489	1457	2269	2604	3347
Walnut Ck J035	1.9	489	1457	2269	2604	3347
Walnut Ck R040	1.9	466	1426	2237	2569	3300
Walnut Ck S007	0.4	222	593	852	963	1216
Walnut Ck J040	2.3	500	1577	2500	2879	3707
Walnut Ck J050 blw	14.3	2670	8690	14757	17243	22668
Walnut Ck R050	14.3	2509	8357	14357	16813	22214
Walnut Ck S008	1.1	397	997	1503	1714	2191
Walnut Ck J060 abv	15.4	2616	8737	15109	17739	23487
Browders Ck S010	2.0	896	2500	3676	4170	5291
Browders Ck J010	2.0	896	2500	3676	4170	5291
Browders Ck R010	2.0	378	1137	1878	2229	3011
Browders Ck S020	4.3	880	2710	4336	5008	6476
Browders Ck J020	6.3	1182	3617	5968	6956	9252
Browders Ck R020	6.3	1037	3334	5669	6652	8837
Browders Ck S030	0.8	322	856	1274	1448	1843
Walnut Ck J060 blw	22.5	3666	12245	21174	24903	33054
Walnut Ck R060	22.5	3471	11530	20369	24023	32104
Walnut Ck S009	1.2	299	885	1385	1591	2048

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut Ck J070 abv	23.7	3537	11821	21039	24835	33289
Dry Br S010	3.1	828	2460	3831	4393	5642
Dry Br J010	3.1	828	2460	3831	4393	5642
Dry Br R010	3.1	527	1621	2769	3281	4408
Dry Br S020	3.1	757	2202	3455	3974	5119
Dry Br J020	6.2	1114	3315	5596	6568	8785
Dry Br R020	6.2	982	3019	5258	6198	8336
Dry Br S030	0.9	287	838	1272	1450	1852
Dry Br J030	7.1	1042	3246	5723	6758	9124
Walnut Ck J070 blw	30.8	4421	14800	26493	31350	42105
Walnut Ck R070	30.8	4417	14779	26468	31316	42070
Woody Ck S010	3.9	997	3029	4732	5428	6975
Woody Ck J010	3.9	997	3029	4732	5428	6975
Woody Ck R010	3.9	442	1570	2999	3644	4987
Woody Ck S020	4.5	847	2619	4237	4902	6351
Woody Ck J020	8.3	973	3280	6129	7436	10217
Woody Ck R020	8.3	926	2971	5901	7171	9893
Woody Ck S030	0.7	234	694	1053	1200	1532
Woody Ck J030 abv Walnut Ck	9.0	968	3044	6129	7468	10342
Walnut Ck S010	0.4	220	606	864	977	1232
Walnut Ck J080 blw Woody Ck	40.2	5306	17828	32645	38847	52504
Walnut Ck R080	40.2	5276	17675	32443	38647	52320
Walnut Ck S011	0.2	116	334	484	548	693
Walnut Ck J090 abv	40.4	5277	17679	32473	38691	52392
Walnut Ck S012	2.4	589	1758	2758	3168	4075
Walnut Ck J080	2.4	589	1758	2758	3168	4075
Walnut Ck R090	2.4	570	1711	2694	3095	3976
Walnut Ck S013	1.3	492	1385	2084	2373	3025
Walnut Ck J090 blw	44.1	5457	18376	34211	40903	55644
Walnut Ck R100	44.1	5392	18123	33610	40469	55204
Walnut Ck S014	1.2	483	1413	2103	2390	3039
Walnut Ck J100 abv	45.4	5397	18161	33808	40768	55711
Walnut Ck Trib S010	2.8	859	2603	3991	4560	5834
Walnut Ck Trib J010	2.8	859	2603	3991	4560	5834
Walnut Ck Trib R010	2.8	820	2447	3840	4410	5697
Walnut Ck Trib S020	0.4	196	560	812	920	1163
Walnut Ck Trib J020 abv	3.2	886	2660	4196	4844	6262
Walnut Ck Trib S030	1.9	535	1602	2481	2842	3646
Walnut Ck Trib J030	1.9	535	1602	2481	2842	3646

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut Ck Trib R020	1.9	474	1484	2341	2702	3493
Walnut Ck Trib S040	0.3	148	428	629	714	904
Walnut Ck Trib J040	2.3	505	1619	2582	2987	3879
Walnut Ck Trib J020 blw	5.5	1316	4190	6639	7661	9939
Walnut Ck Trib R030	5.5	1209	3988	6416	7434	9689
Walnut Ck Trib S050	1.1	456	1343	1995	2266	2882
Walnut Ck Trib J050 abv	6.6	1353	4542	7425	8655	11352
Walnut Ck Trib S060	1.6	463	1394	2148	2457	3149
Walnut Ck Trib J070	1.6	463	1394	2148	2457	3149
Walnut Ck Trib J060 blw	8.2	1743	5660	9316	10860	14263
Walnut Ck Trib R040	8.2	1692	5524	9164	10676	14053
Walnut Ck Trib S070	0.6	329	920	1329	1503	1900
Walnut Ck Trib J080	8.8	1731	5672	9491	11091	14632
Walnut Ck Trib R050	8.8	1400	4546	8191	9727	13105
Walnut Ck Trib S080	1.2	326	973	1505	1724	2211
Walnut Ck J100 blw	55.3	6422	21908	40564	49131	67359
Walnut Ck R110	55.3	6399	21816	40474	48980	67211
Walnut Ck S015	0.1	93	246	347	392	492
Walnut Ck J110 abv	55.5	6400	21818	40485	48997	67241
Walnut Ck S016	3.1	804	2396	3742	4294	5519
Walnut Ck J110 blw	58.6	6502	22213	41578	50486	69570
Walnut Ck R120	58.6	6392	21783	41095	49743	68733
Walnut Ck S017	0.9	276	828	1268	1448	1852
Walnut Ck J120 abv	59.5	6401	21818	41266	49993	69146
Walnut Ck S018	1.7	493	1465	2251	2574	3297
Walnut Ck J120 blw	61.2	6422	21898	41615	50497	69968
Walnut Ck R130	61.2	6384	21829	41541	50404	69831
Walnut Ck S019	1.3	495	1449	2172	2470	3144
Walnut Ck J130 Gage	62.5	6389	21843	41690	50641	70260
Walnut Ck R140	62.5	6030	21211	40670	49476	68153
Walnut Ck S021	0.1	28	215	317	357	449
Walnut Ck J140 abv	62.6	6031	21217	40680	49489	68177
Cottonwood Br S010	1.9	222	2433	3795	4294	5436
Cottonwood Br J010	1.9	222	2433	3795	4294	5436
Cottonwood Br R010	1.9	75	928	1813	2144	2882
Cottonwood Br S020	3.6	115	2668	4549	5211	6687
Walnut Ck J140 blw	68.0	6086	21580	41953	51260	70994
Walnut Ck R150	68.0	5946	21206	41341	50565	70197
Walnut Ck S022	1.0	26	1096	1767	2006	2548

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut Ck J150 abv	69.0	5947	21237	41407	50683	70413
Walnut Ck S023	1.6	37	1498	2465	2807	3580
Walnut Ck J160	1.6	37	1498	2465	2807	3580
Walnut Ck R160	1.6	31	1203	2126	2452	3179
Walnut Ck S024	0.8	70	1032	1594	1803	2280
Walnut Ck J170	2.3	88	1700	3024	3486	4546
Walnut Ck J150 blw	71.3	5953	21313	41644	51075	71137
Walnut Ck R170	71.3	5917	21218	41488	50873	70834
Walnut Ck S025	1.7	128	1290	2157	2466	3159
Walnut Ck J180	73.0	5927	21257	41711	51220	71411
Walnut Ck R180	73.0	4629	18342	37546	45961	64287
Walnut Ck S026	3.3	190	2511	4234	4844	6210
Walnut Ck J200 abv	76.3	4639	18414	37749	46342	64985
Walnut Ck S027	2.0	79	1942	3186	3628	4628
Walnut Ck J190	2.0	79	1942	3186	3628	4628
Walnut Ck R190	2.0	58	1533	2791	3227	4205
Walnut Ck S028	1.3	132	1419	2254	2557	3247
Walnut Ck J200 blw	79.6	4648	18509	37952	46692	65616
Walnut Ck R200	79.6	4648	18509	37952	46692	65616
West Fork J430		5598	33788	66988	82133	115929
West Fork R480		5598	33788	66988	82133	115929
Dosier Ck S010	5.5	624	4699	7510	8553	11034
Dosier Ck J010	5.5	624	4699	7510	8553	11034
Dosier Ck R010	5.5	624	4699	7510	8553	11034
Little Dosier Ck S010	2.1	240	2040	3216	3653	4694
Little Dosier Ck J010	2.1	240	2040	3216	3653	4694
Little Dosier Ck R010	2.1	240	2040	3216	3653	4694
Dosier Ck J020	7.6	861	6671	10631	12101	15594
Dosier Ck R020	7.6	861	6671	10631	12101	15594
Eagle Mountain S032	24.3	5210	13556	21159	24196	31553
West Fork J440		9340	50376	93887	113067	156444
West Fork R490		9340	50376	93887	113067	156444
Ash Ck S010	2.9	102	3009	4825	5485	6982
Ash Ck J010	2.9	102	3009	4825	5485	6982
Ash Ck R010	2.9	46	1359	2844	3398	4574
Ash Ck S020	2.6	88	2449	3994	4551	5808
Ash Ck J020 abv	5.5	110	2930	5623	6684	8977
Ash Ck S030	3.9	137	2850	4815	5519	7088
Ash Ck J020 blw	9.3	247	5706	10401	12182	16038

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Ash Ck R020	9.3	165	3685	7865	9458	12818
Ash Ck S040	3.9	156	3493	5717	6522	8334
Ash Ck J030	13.2	269	5592	11358	13579	18387
Ash Ck R030	13.2	169	3362	8007	9870	13798
Ash Ck S050	6.4	398	4009	6839	7868	10143
Ash Ck J040	19.6	455	5287	11364	14119	19852
Ash Ck R040	19.6	431	5035	11245	13980	19704
Ash Ck S060	2.2	285	2115	3373	3836	4888
Ash Ck J050 abv	21.8	589	5850	11964	14938	21159
Ash Ck S070	1.9	110	1913	3080	3504	4463
Ash Ck J050 blw	23.7	674	6658	12684	15820	22516
Ash Ck R050	23.7	481	5266	11787	14692	20963
Ash Ck S080	0.6	123	824	1261	1425	1804
Ash Ck J060	24.4	496	5301	11870	14811	21154
Ash Ck S090	1.9	176	2306	3580	4055	5142
Ash Ck J070	1.9	176	2306	3580	4055	5142
Ash Ck J080	26.2	524	5421	12111	15162	21737
Ash Ck R060	26.2	524	5421	12111	15162	21737
Eagle Mountain S033	3.4	1109	3395	5085	5750	7370
West Fork J450		10697	57752	107622	129437	179849
Eagle Mountain Reservoir		6801	15109	25892	32795	50232
West Fork R500		6801	15097	25866	32770	50193
Lake Worth S010	21.3	814	3954	7486	8896	12046
West Fork J460		6801	15172	26020	32955	50451
West Fork R510		6801	15172	26020	32955	50451
Silver Ck S010	2.5	28	880	1799	2105	2757
Silver Ck J010	2.5	28	880	1799	2105	2757
Silver Ck R010	2.5	28	849	1763	2056	2679
Silver Ck S020	1.9	13	547	1155	1363	1801
Silver Ck J020 abv	4.5	41	1392	2908	3412	4475
Silver Ck S030	3.7	34	982	2081	2462	3261
Silver Ck J020 blw	8.2	74	2352	4949	5840	7696
Silver Ck R020	8.2	65	2231	4750	5668	7518
Silver Ck S040	1.8	22	697	1404	1637	2137
Silver Ck J030	10.0	79	2704	5784	6911	9162
Silver Ck R030	10.0	45	1947	5079	6250	8510
Silver Ck S050	1.3	21	395	816	960	1266
Silver Ck J050 abv	11.3	55	2189	5718	7051	9601
Silver Ck S060	1.9	41	801	1582	1839	2393

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Silver Ck J040	1.9	41	801	1582	1839	2393
Silver Ck R040	1.9	37	741	1403	1629	2172
Silver Ck S070	1.9	44	712	1421	1658	2166
Silver Ck J050 blw	15.1	121	2893	7800	9617	13056
Silver Ck R050	15.1	113	2848	7776	9581	13038
Silver Ck S080	0.4	7	244	455	522	669
Silver Ck J060 abv	15.4	115	2871	7872	9707	13233
Little Silver Ck S010	1.8	30	47	619	1018	1897
Little Silver Ck J010	1.8	30	47	619	1018	1897
Little Silver Ck R010	1.8	25	40	598	980	1846
Little Silver Ck S020	2.1	38	728	1480	1733	2273
Little Silver Ck J020 abv	4.0	63	766	2048	2701	4119
Little Silver Ck S030	1.8	7	578	1209	1421	1870
Little Silver Ck J020 blw	5.8	70	1341	3257	4123	5984
Little Silver Ck R020	5.8	60	1292	3156	3996	5485
Little Silver Ck S040	1.2	16	512	1022	1189	1549
Little Silver Ck J030	7.0	71	1696	3965	4957	6703
Little Silver Ck R030	7.0	67	1594	3929	4912	6688
Little Silver Ck S050	0.7	23	297	578	671	872
Silver Ck J060 blw	23.2	192	4444	11963	14806	20409
Silver Ck R060	23.2	151	3891	10887	13536	18761
Silver Ck S090	4.3	60	1374	2830	3324	4371
Silver Ck J070	27.5	180	4651	12862	15947	21999
Silver Ck R070	27.5	169	4156	12516	15664	21542
Silver Ck S100	2.8	82	1005	1996	2326	3082
Silver Ck J080 abv	30.4	199	4544	13726	17176	23591
Silver Ck S110	3.7	100	1073	2179	2556	3411
Silver Ck J080 blw	34.1	282	5215	15498	19340	26557
Silver Ck R080	34.1	256	5025	15131	19000	26357
Silver Ck S120	1.2	37	532	1033	1197	1574
Silver Ck J100 abv	35.3	266	5130	15525	19525	27130
Silver Ck S130	1.6	33	52	585	918	1674
Silver Ck J090	1.6	33	52	585	918	1674
Silver Ck R090	1.6	21	34	358	582	1090
Silver Ck S140	2.0	25	40	820	1248	2195
Silver Ck J100 blw	38.9	294	5173	16293	20747	29377
Silver Ck R100	38.9	292	5164	16285	20800	29376
Silver Ck J110 abv Mill Ck	38.9	292	5164	16285	20800	29376
Mill Ck S010	1.8	70	714	1385	1607	2119

Hydrologic Element	Draiage Area (sq.mi.)	Existing Conditions Peak Discharge (cfs) with NRCS Losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Mill_Ck_J010	1.8	70	714	1385	1607	2119
Mill_Ck_R010	1.8	69	676	1337	1554	2060
Mill_Ck_S020	1.4	52	776	1453	1668	2173
Mill_Ck_J020	3.2	113	1196	2398	2795	3699
Mill_Ck_R020	3.2	86	190	1926	2476	3520
Mill_Ck_S030	1.9	66	736	1440	1673	2209
Mill_Ck_J030	5.1	137	838	3032	3909	5606
Mill_Ck_R030	5.1	51	611	2855	3674	5390
Mill_Ck_S040	1.8	95	781	1480	1711	2248
Silver_Ck_J110 blw Mill_Ck	45.8	369	5785	19376	24803	35260
Silver_Ck_R110	45.8	359	5511	17189	21079	32795
Silver_Ck_S150	2.2	101	964	1837	2124	2789
Silver_Ck_J120	47.9	382	5640	17663	21664	33856
Silver_Ck_R120	47.9	378	5615	17604	21549	32708
Live_Oak_Ck_S010	5.6	183	1818	3615	4222	5608
Live_Oak_Ck_J010	5.6	183	1818	3615	4222	5608
Live_Oak_Ck_R010	5.6	144	1682	3431	4018	5364
Live_Oak_Ck_S020	2.4	105	901	1894	2196	2892
Live_Oak_Ck_J020	8.0	217	2385	4982	5832	7785
Live_Oak_Ck_R020	8.0	217	2385	4982	5832	7785
Silver_Ck_J130	55.9	528	6470	20270	24650	37319
Silver_Ck_R130	55.9	528	6470	20270	24650	37319
Lake_Worth_S020	16.6	1740	4708	7826	9097	12080
Lake_Worth_Inflow		6801	19351	43383	52076	73377
Lake_Worth		4709	15578	26749	33829	51673
Lake_Worth_Outlet		4709	15578	26749	33829	51673
Dry_Fork_R20	1.8	50	1410	2437	2808	3640
West_Fork_R_100	2.8	68	1632	3317	3779	4814
Little_Silver_Ck_J040	7.7	78	1779	4357	5417	7374
Mill_Ck_J040	6.8	113	1099	3754	4862	7203
Silver_Ck_J100	3.6	36	58	915	1371	2511
Silver_Ck_J050	3.8	79	1440	2752	3194	4240

6.3 Frequency Discharge Results for Future 2070 Conditions

Tables 6-3 and 6-4 illustrates the 2070 future conditions discharge frequency peaks for the West Fork of the Trinity River Watershed. The flows in the “without NRCS losses” table are used to determine inflows for NRCS dams, while the flows in the “with NRCS losses” table are used to determine flows downstream of the NRCS dams.

Table 6-3. Summary of Future 2070 Conditions Discharges for the West Fork of the Trinity River without NRCS losses

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_S010	60.5	4053	13554	24152	29413	41385
West_Fork_R010	60.5	735	3394	8066	11193	18824
West_Fork_S020	67.8	3609	12073	21346	26293	37451
West_Fork_abv_BrushyCk	128.2	3624	12109	21459	26493	38093
West_Fork_S030	62.3	2845	9882	17486	21598	30385
West_Fork_J010	190.5	6439	21888	38786	47916	68323
West_Fork_R020	190.5	4692	18552	34644	43541	62864
West_Fork_S040	40.5	2229	7550	13172	16136	22460
West_Fork_J020	231	6144	24230	45335	56916	81574
West_Fork_R030	231	3183	15142	33598	45234	70428
West_Fork_S050	32	2448	7215	12268	14918	20348
West_Fork_abv_CameronCk	263	3266	15918	36116	49343	77472
West_Fork_S060	69.1	3694	10889	19150	23739	33096
West_Fork_J030	332.1	5962	20519	47696	65576	102857
West_Fork_R040	332.1	4008	19004	43927	60350	96905
West_Fork_S070	50.4	2986	9657	16768	20580	29186
West_Fork_J040	382.5	5231	20708	48354	66789	108511
West_Fork_R050	382.5	4482	20343	47097	64723	105944
West_Fork_S080	19.5	2076	5957	9751	11680	15668
West_Fork_abv_TurkeyCk	402	4522	20461	47420	65317	107722
West_Fork_S090	37.1	2291	6982	12082	14818	20424
West_Fork_J050	439.1	4869	21590	50253	69534	115687
West_Fork_R060	439.1	4555	19752	46931	65667	110924
West_Fork_S100	37.7	2820	8143	13656	16647	22780
West_Fork_J060	476.8	4619	19957	47871	67314	115301
West_Fork_R070	476.8	3833	16823	39408	56267	96361
West_Fork_S120	50.1	2171	5569	13627	16823	23406
West_Fork_S110	22.3	1296	4068	7037	8631	11909
WestFork_abv_Big_Cleveland	549.3	3863	16988	40465	58181	100996

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Cleveland_S010	51.3	1905	3611	14672	18077	25076
Big_Cleveland_R010	51.3	1535	2845	12280	15620	22617
Big_Cleveland_S020	47.3	2599	6536	14773	18056	24852
Big_Cleveland_abv_WestFork	98.6	3395	7878	21902	28269	41551
West_Fork_J070	647.9	7243	18268	43314	63036	111231
West_Fork_R080	647.9	3922	16432	41135	59916	106559
West_Fork_S130	20.9	2311	6538	10480	12530	16789
West_Fork_J080_Gage	668.8	3976	16513	41297	60122	106861
West_Fork_R090	668.8	3833	16361	40777	59332	105673
WestFork_abv_Lost_Ck	668.8	3833	16361	40777	59332	105673
Lost_Ck_S010	28.8	2289	7360	11900	14247	19194
Lost_Creek_Reservoir	28.8	426	2412	8674	11670	17760
Lost_Ck_R010	28.8	408	1989	5744	8128	12835
Lost_Ck_S020	13.5	471	5649	8797	10384	13716
Lost_Ck_abv_WestFork	42.3	490	5671	8833	10438	14249
West_Fork_+_Lost_Ck	711.1	4251	17249	41973	60917	108619
West_Fork_R100	711.1	3993	16569	40574	58759	104714
West_Fork_S140	39.5	374	11583	21616	25755	34357
West_Fork_abv_CarrollCk	750.6	3999	16752	41000	59303	105522
West_Fork_S150	41.3	815	12430	20409	24464	32842
West_Fork_J090	791.9	4010	25092	43405	59834	106312
West_Fork_R110	791.9	3975	16650	40849	58950	104446
West_Fork_S160	35.7	1711	13048	20664	24444	32413
WestFork_abv_Beans_Ck	827.6	4001	16884	41328	59563	105360
Beans_Ck_S010	35.7	821	13049	20921	24837	33003
Beans_Ck_R010	35.7	628	10038	17908	21367	29333
Beans_Ck_S020	11.3	629	7015	10537	12208	15842
Beans_Ck_abv_WestFork	47	822	11877	21642	26090	36081
West_Fork_+_Beans_Ck	874.6	4023	25086	43051	60538	106812
Big_Ck_S010	50.6	714	16258	26538	31690	42379
Big_Ck_J010	50.6	714	16258	26538	31690	42379
Big_Ck_R010	50.6	652	15252	26496	30779	40091
Big_Ck_S021	3.2	389	2576	3690	4197	5337
Big_Ck_J030_Abv	53.8	701	15546	27374	31679	41218
Big_Ck_S022	3.6	385	3750	5287	5975	7533
Big_Ck_J020	3.6	385	3750	5287	5975	7533
Big_Ck_R020	3.6	280	3088	4627	5277	6542
Big_Ck_S023	1.1	234	1533	2113	2370	2955
Big_Ck_J030_blw	58.5	911	15986	28655	33159	42763

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Ck_R030	58.5	774	15218	28325	32073	41347
Big_Ck_S024	5.7	1614	5358	7494	8452	10665
Big_Ck_J040	64.2	1933	15531	29666	33113	42702
Big_Ck_S031	4.4	874	4542	6330	7138	8989
Big_Ck_J050	4.4	874	4542	6330	7138	8989
Big_Ck_R040	4.4	391	2002	3287	3969	5197
Big_Ck_S032	4.3	638	3324	4733	5384	6855
Big_Ck_J100_abv	8.6	884	4644	7066	8319	10990
Big_Ck_S033	2.4	455	2440	3407	3844	4845
Big_Ck_J060	2.4	455	2440	3407	3844	4845
Big_Ck_S034	1.4	450	1885	2579	2887	3600
Big_Ck_J070	1.4	450	1885	2579	2887	3600
Big_Ck_J080	3.8	855	4107	5699	6415	8061
Big_Ck_R050	3.8	699	3519	4984	5756	7281
Big_Ck_S035	2.1	629	2503	3448	3870	4848
Big_Ck_J090	5.9	1246	5739	8114	9286	11906
Big_Ck_R060	5.9	1187	5421	7523	8610	11162
Big_Ck_S036	0.3	110	531	723	808	1003
Big_Ck_J100_blw	14.8	2051	9903	14375	16551	21667
Big_Ck_R070	14.8	923	5942	10724	12353	16283
Big_Ck_S037	4.6	1270	4509	6273	7070	8911
Big_Ck_J110	19.4	1622	7771	14061	16527	21104
Big_Ck_J120	83.6	3550	19625	39299	46526	58510
Big_Ck_R080	83.6	3552	19627	39284	46430	58459
Big_Ck_abv_Bridgeport	83.6	3552	19627	39284	46430	58459
Boons_Ck_S010	15.7	541	9597	14478	16790	21816
Boons_Ck_J010	15.7	541	9597	14478	16790	21816
Boons_Ck_R010	15.7	503	9241	14210	16418	20824
Boons_Ck_S020	2	574	2604	3626	4080	5164
Boons_Ck_J020	2	574	2604	3626	4080	5164
Boons_Ck_S030	0.8	327	1144	1579	1770	2234
Boons_Ck_J030_abv	18.4	1063	9942	15427	18017	22676
Boons_Ck_S040	4.6	123	3860	5645	6470	8314
Boons_Ck_J030_blw	23	1150	12662	19749	23561	29327
Boons_Ck_R020	23	716	7632	14007	16102	21472
Boons_Ck_S050	6.3	998	4766	6928	7931	10193
Boons_Ck_J040	29.3	1491	8904	16652	19391	25600
Boons_Ck_R030	29.3	1125	7428	14556	16992	22473
Boons_Ck_S060	2.3	482	2064	2956	3365	4302

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Boons_Ck_J060_abv	31.7	1230	7513	14934	17381	23087
Boons_Ck_S070	2.9	78	2447	3579	4102	5271
Boons_Ck_J050	2.9	78	2447	3579	4102	5271
Boons_Ck_R040	2.9	40	1422	2284	2706	3512
Boons_Ck_S080	5.2	649	4474	6464	7378	9453
Boons_Ck_J060_blw	39.8	1491	9014	17181	20155	26487
Boons_Ck_R050	39.8	1103	7958	16610	19065	26041
Boons_Ck_S090	3.8	1323	4378	6120	6902	8751
Boons_Ck_J070_abv Willow_Ck	43.6	1595	8129	16990	19513	26808
Willow_Ck_S010	5.3	797	6769	9392	10555	13209
Willow_Ck_J010	5.3	797	6769	9392	10555	13209
Willow_Ck_R010	5.3	230	2802	4264	4880	6080
Willow_Ck_S020	1.4	467	2310	3147	3515	4360
Willow_Ck_J020_abv	6.7	529	3518	5536	6428	8224
Willow_Ck_S030	2.4	753	3065	4224	4736	5921
Willow_Ck_J020_blw	9.2	1249	6583	9754	11136	14093
Willow_Ck_R020	9.2	669	3914	5906	6534	8157
Willow_Ck_S040	1.6	582	2632	3580	3998	4954
Willow_Ck_J030_abv	10.8	924	4559	6768	7750	9923
Willow_Ck_S050	4.9	809	4028	5734	6509	8266
Willow_Ck_J030_blw	15.6	1664	8439	12286	14040	17391
Willow_Ck_R030	15.6	1649	7937	12142	13728	17063
Willow_Ck_S060	0.2	73	350	471	524	645
Willow_Ck_J040_abv	15.8	1658	7959	12191	13789	17148
Willow_Ck_S070	1.4	439	2079	2841	3176	3946
Willow_Ck_J040_blw	17.2	1890	8483	13184	14952	18548
Willow_Ck_R040	17.2	1764	8249	12688	14265	17934
Willow_Ck_S080	5.4	1181	4994	7021	7931	10019
Willow_Ck_J050	22.5	2865	12537	18797	21422	26491
Willow_Ck_R050	22.5	2752	11642	17745	19262	25487
Willow_Ck_S090	3.2	642	2684	3806	4314	5473
Boons_Ck_J070_blw Willow_Ck	69.3	4502	20159	32880	39946	52933
Boons_Ck_R060	69.3	3132	18619	32172	38669	50587
Coal_Bed_Br_S010	5.1	1098	4629	6524	7376	9330
Coal_Bed_Br_R010	5.1	893	4396	6492	7178	8904
Boons_Ck_S100	1.7	1182	3164	4257	4735	5841
Boons_Ck_J080	76.2	3788	21054	36873	43342	58197
Jasper_Ck_S010	20	269	7024	11339	13490	17966
Jasper_Ck_R010	20	87	5288	9762	11553	15242

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Jasper_Ck_S020	4.8	1797	6095	8471	9531	12057
Jasper_Ck_abv_Bridgeport	24.9	1802	6174	10268	12225	16262
Bridgeport_S002	21.8	9238	17063	23551	26494	33464
Bridgeport_S001	14.9	5332	13129	18282	20626	26051
Bridgeport_Inflow	1096	23383	86167	144104	174693	239015
Bridgeport_Reservoir	1096	5352	12295	21351	29946	72551
WHA_Bridgeport_Outflow	0	5324	11627	12802	21207	39116
West_Fork_S162	11.8	3545	12113	16879	19011	23958
West_Fork_J100	11.8	3545	12113	16879	19011	23958
West_Fork_S161	1.7	551	1844	2558	2876	3616
West_Fork_R120	0	5319	11486	12801	21205	39112
West_Fork_J110	13.5	5358	13949	19427	21876	39251
West_Fork_R130	13.5	5358	13524	19012	21432	39251
West_Fork_S163	8.9	2778	10157	14073	15807	19849
West_Fork_J120	22.4	6690	22918	32211	36298	45659
West_Fork_R140	22.4	6601	22924	32504	36101	45389
West_Fork_S164	2.7	1447	4921	6645	7395	9133
West_Fork_J130	25.1	6973	24316	34658	39860	48117
West_Fork_R150	25.1	5393	18069	28248	31843	40058
West_Fork_S165	5	2003	6978	9540	10656	13277
West_Fork_J140	30.1	6171	19289	30734	37461	45620
West_Fork_R160	30.1	5398	11892	18842	22407	39456
West_Fork_S166	9.2	2947	9651	13413	15091	18996
West_Fork_abv_Dry_Ck	39.3	5543	14786	20917	24606	39549
Dry_Ck_S010	5.7	1692	6511	9029	10144	12744
Dry_Ck_J010	5.7	1692	6511	9029	10144	12744
Dry_Ck_R010	5.7	1443	6483	8992	9857	12462
Dry_Ck_S020	0.8	541	2113	2831	3149	3859
Dry_Ck_J020_abv	6.5	1481	6685	9333	10235	12987
Dry_Ck_S030	3.8	720	4270	5960	6711	8446
Dry_Ck_J020_blw	10.3	2087	10951	15287	16819	21182
Dry_Ck_R020	10.3	609	5280	12996	13583	16505
Dry_Ck_S040	2.3	1566	4933	6620	7361	9044
Dry_Ck_J030	12.6	1714	5600	13828	14529	19494
Dry_Ck_R030	12.6	1092	4773	12000	13630	17131
Dry_Ck_S050	0.5	101	925	1254	1399	1727
Dry_Ck_J040_abv	13.1	1183	4801	12126	13762	17336
Dry_Ck_S060	2	521	2441	3382	3797	4763
Dry_Ck_J040_blw	15.1	1668	5985	13781	15718	20098

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dry_Ck_R040	15.1	1359	5169	12755	14665	19488
Dry_Ck_S070	1.5	487	2377	3237	3610	4480
Dry_Ck_J050	1.5	487	2377	3237	3610	4480
Dry_Ck_R050	1.5	302	1888	2618	2903	3526
Dry_Ck_S080	0.6	90	1131	1536	1714	2118
Dry_Ck_J060_abv	2	340	2264	3356	3768	4637
Dry_Ck_J060_blw	17.1	1694	6597	13869	16136	22327
Dry_Ck_R060	17.1	1109	4189	9237	11088	15752
Dry_Ck_S090	3.8	380	4232	5942	6703	8447
Dry_Ck_J070	21	1344	6468	10010	12450	17998
Dry_Ck_R070	21	1228	5817	9830	12067	17223
Dry_Ck_S100	2.1	270	2905	4019	4508	5637
Dry_Ck_J080	2.1	270	2905	4019	4508	5637
Dry_Ck_R080	2.1	265	2883	3994	4461	5570
Dry_Ck_J090	23.1	1295	7645	11834	13998	19453
Dry_Ck_R090	23.1	969	3981	8666	10894	16000
Dry_Ck_S110	4.2	1446	5358	7369	8249	10316
Dry_Ck_abv_West_Fork	27.3	1849	6913	9941	11560	16971
West_Fork_blw_Dry_Ck	66.5	6956	21168	30180	36013	49561
West_Fork_R170	66.5	5720	19659	29472	35759	48987
West_Fork_J160_abv	66.5	5720	19659	29472	35759	48987
West_Fork_S171	2.6	939	4639	6294	7012	8679
West_Fork_J150	2.6	939	4639	6294	7012	8679
West_Fork_R180	2.6	88	1802	3296	3704	4484
West_Fork_S172	1.9	868	3063	4156	4629	5740
West_Fork_J160_blw	71.1	5857	21551	33306	38563	50579
West_Fork_R190	71.1	5482	19063	32063	37386	50216
Amon_G_Carter_S030	40.3	3161	9680	16553	19713	27056
Amon_G_Carter_S010	38.6	797	4136	13376	16314	23025
Amon_G_Carter_S020	30.6	1217	6157	11007	13410	18901
Amon_G_Carter_Inflow	109.5	5150	19839	40796	49279	68777
Amon_G_Carter_Lake	109.5	341	1277	10104	14962	30706
Big_Sandy_Ck_R010	109.5	335	1275	9572	14397	29739
Big_Sandy_Ck_S010	42	2986	8120	14179	17084	23725
Big_Sandy_Ck_J010	151.5	3057	8217	14342	19495	40708
Big_Sandy_Ck_R020	151.5	2953	8070	14148	19397	40500
Big_Sandy_Ck_S011	1.4	671	1540	2154	2428	3054
Big_Sandy_Ck_J030_abv	152.9	2966	8099	14191	19440	40560
Big_Sandy_Ck_S012	1	345	779	1113	1266	1611

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Sandy_Ck_J020	1	345	779	1113	1266	1611
Big_Sandy_Ck_R030	1	328	756	1086	1236	1574
Big_Sandy_Ck_J030_blw	153.9	2981	8133	14270	19464	40612
Big_Sandy_Ck_R040	153.9	2747	7854	13943	19289	40048
Big_Sandy_Ck_S013	1	230	630	931	1073	1383
Big_Sandy_Ck_J040	155	2752	7876	14006	19309	40083
Big_Sandy_Ck_R050	155	2734	7852	13974	19295	40040
Big_Sandy_Ck_S014	1.8	371	1021	1516	1749	2259
Big_Sandy_Ck_J050_abv	156.7	2743	7893	14085	19327	40099
Big_Sandy_Ck_S015	4.3	804	1855	2767	3207	4172
Big_Sandy_Ck_J050_blw	161	2875	8278	14818	19417	40415
Big_Sandy_Ck_R060	161	2517	7653	14134	18906	39181
Big_Sandy_Ck_S016	3.3	312	944	1514	1804	2410
Big_Sandy_Ck_J060	164.4	2556	7891	14635	18977	39442
Big_Sandy_Ck_R070	164.4	2423	7542	14336	18768	38881
Big_Sandy_Ck_S017	4.7	517	1496	2360	2793	3705
Big_Sandy_Ck_J070_abv	169	2446	7727	14762	18823	39090
Pringle_Ck_S010	7.8	1363	3178	4770	5542	7231
Pringle_Ck_J010	7.8	1363	3178	4770	5542	7231
Pringle_Ck_R010	7.8	1214	2827	4326	5048	6469
Pringle_Ck_S020	5.6	1000	2278	3411	3959	5163
Pringle_Ck_J030_abv	13.4	2164	4991	7586	8852	11394
Pringle_Ck_S030	3	975	2176	3119	3553	4532
Pringle_Ck_J020	3	975	2176	3119	3553	4532
Pringle_Ck_R020	3	724	1654	2499	2845	3600
Pringle_Ck_S040	1.5	408	921	1333	1524	1954
Pringle_Ck_J030_blw	17.9	2951	6857	10396	12155	15754
Pringle_Ck_R030	17.9	2572	6082	9817	11446	14703
Pringle_Ck_S050	2.9	688	1792	2632	3025	3890
Pringle_Ck_J040	20.8	2781	6694	11070	12959	16606
Pringle_Ck_R040	20.8	2492	6263	10717	12503	15999
Pringle_Ck_S060	1.5	268	769	1157	1341	1740
Pringle_Ck_J050	22.2	2558	6527	11335	13235	16923
Big_Sandy_Ck_J070_blw	191.3	3322	9439	18460	22649	40497
Big_Sandy_Ck_R080	191.3	3032	9329	18353	22535	40130
Big_Sandy_Ck_S018	1.5	278	784	1180	1369	1778
Big_Sandy_Ck_abv_Brushy_Ck	192.8	3069	9345	18402	22668	40164
Brushy_Ck_S010	30.7	2137	5912	9813	11882	16606
Brushy_Ck_J010	30.7	2137	5912	9813	11882	16606

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Brushy_Ck_R010	30.7	1888	5500	9340	11447	16167
Brushy_Ck_S021	7.2	556	1701	2877	3450	4771
Brushy_Ck_J020	37.9	2135	6364	11015	13607	19364
Brushy_Ck_R020	37.9	2068	6291	10915	13479	19194
Brushy_Ck_S022	0.9	223	620	918	1052	1381
Brushy_Ck_J030_abv	38.8	2072	6303	10933	13508	19267
Brushy_Ck_S023	4.3	438	1415	2324	2753	3751
Brushy_Ck_J030_blw	43.1	2130	6578	11543	14358	20612
Brushy_Ck_R030	43.1	1958	6311	11317	14068	20233
Brushy_Ck_S024	1.3	193	606	953	1113	1492
Brushy_Ck_J050_abv	44.4	1962	6332	11379	14173	20432
Brushy_Ck_S025	1.8	297	892	1387	1613	2155
Brushy_Ck_J040	1.8	297	892	1387	1613	2155
Brushy_Ck_R040	1.8	295	891	1381	1605	2139
Brushy_Ck_J050_blw	46.2	1968	6361	11465	14312	20697
Brushy_Ck_R050	46.2	1946	6327	11434	14273	20645
Brushy_Ck_S026	1.2	284	819	1220	1399	1838
Brushy_Ck_J060_abv GrapevineC	47.4	1951	6342	11458	14301	20725
Grapevine_Ck_S010	4.5	563	1814	2904	3410	4600
Grapevine_Ck_J010	4.5	563	1814	2904	3410	4600
Grapevine_Ck_R010	4.5	527	1760	2810	3254	4325
Grapevine_Ck_S020	1.2	270	801	1197	1374	1807
Grapevine_Ck_J030_abv	5.6	623	2141	3442	3998	5292
Grapevine_Ck_S030	1	226	649	974	1119	1476
Grapevine_Ck_J020	1	226	649	974	1119	1476
Grapevine_Ck_R020	1	210	635	957	1100	1452
Grapevine_Ck_J030_blw	6.6	774	2616	4195	4926	6448
Grapevine_Ck_R030	6.6	761	2596	4183	4905	6424
Grapevine_Ck_S040	0.3	56	171	261	301	399
Grapevine_Ck_J040	6.9	796	2720	4397	5155	6750
Brushy_Ck_J060_blw GrapevineC	54.3	1980	6509	11928	15023	22008
Brushy_Ck_R060	54.3	1929	6420	11864	14945	21906
Brushy_Ck_S027	2.4	478	1394	2118	2444	3237
Brushy_Ck_J070	56.7	1938	6447	11906	15035	22127
Brushy_Ck_R070	56.7	1869	6318	11815	14925	21986
Brushy_Ck_S028	0.6	109	316	489	568	757
Brushy_Ck_J080	57.3	1871	6324	11832	14956	22055
Brushy_Ck_R080	57.3	1807	6177	11693	14802	21829
Brushy_Ck_S029	1.4	152	460	750	886	1205

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Brusy_Ck_J090_abv_Dry_Hollow	58.7	1811	6206	11787	14948	22085
Dry_Hollow_Br_S010	2.3	364	1074	1881	2178	2821
Dry_Hollow_Br_J010	2.3	364	1074	1881	2178	2821
Dry_Hollow_Br_S020	1.3	260	720	1214	1394	1789
Dry_Hollow_Br_J020	1.3	260	720	1214	1394	1789
Dry_Hollow_Br_R010	1.3	236	698	1188	1364	1753
Dry_Hollow_Br_S030	0.6	164	447	721	818	1037
Dry_Hollow_Br_J030_abv	1.8	326	1002	1724	1976	2539
Dry_Hollow_Br_J030_blw	4.1	683	2028	3525	4069	5258
Dry_Hollow_Br_R020	4.1	682	2027	3524	4065	5254
Dry_Hollow_Br_S040	1.4	277	778	1315	1510	1939
Dry_Hollow_Br_J040	1.4	277	778	1315	1510	1939
Dry_Hollow_Br_R030	1.4	265	768	1302	1495	1917
Dry_Hollow_Br_S050	0.4	94	264	438	500	638
Dry_Hollow_Br_J050	1.8	339	995	1693	1943	2489
Dry_Hollow_Br_J060	5.9	1016	3005	5198	5984	7716
Dry_Hollow_Br_R040	5.9	944	2923	5049	5707	7209
Dry_Hollow_Br_S060	3.1	481	1421	2484	2874	3721
Dry_Hollow_Br_J070	9	1416	4344	7533	8574	10898
Dry_Hollow_Br_R050	9	1242	3845	7255	8213	10381
Dry_Hollow_Br_S070	1.5	374	935	1521	1736	2218
Dry_Hollow_Br_J080	10.4	1447	4438	8385	9520	11932
Dry_Hollow_Br_R060	10.4	1300	4147	8271	9283	11633
Dry_Hollow_Br_S080	0.8	111	322	568	659	857
Dry_Hollow_Br_J090_abv	11.2	1384	4425	8832	9921	12434
Brusy_Ck_J090_blw_Dry_Hollow	69.9	1849	6326	13009	16908	26474
Big_Sandy_Ck_blw_Brushy_Ck	262.7	4561	15383	30474	38385	57636
Big_Sandy_Ck_R090	262.7	4545	15356	30464	38380	57576
Big_Sandy_Ck_S021	0.7	190	529	774	883	1126
Big_Sandy_Ck_J080_abv	263.4	4548	15365	30479	38405	57673
Chicken_Ck_S010	1.6	314	906	1367	1576	2035
Chicken_Ck_J010	1.6	314	906	1367	1576	2035
Chicken_Ck_S020	1	242	696	1033	1185	1519
Chicken_Ck_J020	1	242	696	1033	1185	1519
Chicken_Ck_R010	1	231	686	1021	1171	1502
Chicken_Ck_J030	2.6	543	1580	2371	2729	3515
Chicken_Ck_R020	2.6	380	1228	1931	2253	2940
Chicken_Ck_S030	2.7	405	1234	1911	2224	2897
Chicken_Ck_J040	5.3	779	2455	3836	4471	5830

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Sandy_Ck_J080_blw	268.7	4565	15426	30685	39037	59258
Big_Sandy_Ck_R100	268.7	4542	15388	30674	39031	59192
Big_Sandy_Ck_S022	0.7	148	439	658	757	974
Big_Sandy_Ck_J090_abv	269.4	4545	15396	30687	39079	59323
Big_Sandy_Ck_Trib_S010	1.2	324	841	1237	1414	1811
Big_Sandy_Ck_Trib_J010	1.2	324	841	1237	1414	1811
Big_Sandy_Ck_Trib_R010	1.2	308	813	1185	1356	1733
Big_Sandy_Ck_Trib_S020	0.7	283	610	859	969	1222
Big_Sandy_Ck_Trib_J020	1.9	491	1249	1796	2041	2600
Big_Sandy_Ck_Trib_R020	1.9	416	1065	1590	1812	2318
Big_Sandy_Ck_Trib_S030	0.7	195	526	769	877	1119
Big_Sandy_Ck_Trib_J030	2.6	550	1448	2187	2488	3178
Big_Sandy_Ck_J090_blw	272	4559	15434	30761	39344	59874
Big_Sandy_Ck_R110	272	4520	15375	30743	39327	59760
Big_Sandy_Ck_S023	0.4	85	253	381	439	565
Big_Sandy_Ck_J120_abv	272.4	4522	15379	30751	39364	59835
Big_Sandy_Ck_S024	2	395	1098	1657	1912	2470
Big_Sandy_Ck_J100	2	395	1098	1657	1912	2470
Big_Sandy_Ck_R115	2	218	827	1388	1628	2116
Big_Sandy_Ck_S025	1.3	362	1022	1495	1705	2174
Big_Sandy_Ck_J110	3.3	434	1312	2285	2720	3592
Big_Sandy_Ck_J120_blw	275.7	4550	15447	30916	39875	60623
Big_Sandy_Ck_R120	275.7	4548	15446	30915	39874	60621
Mudhole_Br_S010	2.6	384	1188	1845	2148	2800
Mudhole_Br_J010	2.6	384	1188	1845	2148	2800
Mudhole_Br_R010	2.6	317	1022	1690	1998	2590
Mudhole_Br_S020	1.1	209	624	944	1089	1407
Mudhole_Br_J020	3.7	455	1455	2409	2855	3719
Big_Sandy_Ck_J130	279.4	4625	15879	31882	40777	61798
Big_Sandy_Ck_R130	279.4	4459	15495	31552	40684	61590
Big_Sandy_Ck_S026	3.4	310	873	1426	1697	2268
Big_Sandy_Ck_J160_abv	282.8	4525	16102	32773	41968	63183
Big_Sandy_Ck_S027	1.4	488	1116	1598	1813	2302
Big_Sandy_Ck_J140	1.4	488	1116	1598	1813	2302
Big_Sandy_Ck_R140	1.4	420	1012	1473	1669	2118
Big_Sandy_Ck_S028	1.8	368	941	1417	1636	2116
Big_Sandy_Ck_J150	3.2	763	1877	2787	3198	4110
Big_Sandy_Ck_J160_blw	286.1	4557	16290	33323	42625	63851
Big_Sandy_Ck_R150	286.1	4556	16290	33322	42624	63850

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Briar_Br_S010	3.6	435	1295	2009	2362	3112
Briar_Br_J010	3.6	435	1295	2009	2362	3112
Briar_Br_S020	1.6	232	687	1051	1228	1607
Briar_Br_J020	1.6	232	687	1051	1228	1607
Briar_Br_J030	5.3	653	1953	3020	3546	4667
Briar_Br_R010	5.3	643	1925	2992	3516	4607
Briar_Br_S030	0.7	195	523	761	871	1114
Briar_Br_J040	6	738	2210	3444	4047	5291
Briar_Br_R020	6	736	2198	3418	4017	5242
Briar_Br_S040	0.3	79	202	294	337	431
Briar_Br_J050_abv	6.3	778	2313	3597	4227	5508
Walkers_Br_S010	2.7	331	984	1525	1793	2362
Walkers_Br_J010	2.7	331	984	1525	1793	2362
Walkers_Br_S020	1.2	292	793	1161	1331	1706
Walkers_Br_J020	1.2	292	793	1161	1331	1706
Walkers_Br_R010	1.2	272	774	1134	1301	1675
Walkers_Br_J030	3.9	536	1567	2407	2818	3692
Walkers_Br_R020	3.9	522	1549	2387	2798	3659
Walkers_Br_S030	1.2	302	822	1197	1370	1752
Walkers_Br_J040	5.1	700	2128	3272	3822	4971
Walkers_Br_R030	5.1	700	2124	3231	3766	4969
Walkers_Br_S040	0.3	81	213	308	351	447
Walkers_Br_J050	5.4	750	2276	3441	4005	5316
Briar_Br_J050_blw	11.7	1500	4480	6948	8146	10580
Briar_Br_R030	11.7	884	3185	5679	7114	8944
Briar_Br_S050	1.6	221	649	995	1165	1526
Briar_Br_J060	13.3	1012	3643	6469	8100	10182
Briar_Br_R040	13.3	926	3454	6343	7708	9953
Briar_Br_S060	2.7	276	824	1297	1534	2036
Briar_Br_J070	16.1	1108	4130	7546	9109	11818
Big_Sandy_Ck_J170	302.1	5127	19119	38944	49432	72500
Big_Sandy_Ck_R160	302.1	4985	18187	37299	47508	71224
Big_Sandy_Ck_S031	3.9	442	1323	2063	2431	3211
Big_Sandy_Ck_J180	306	5040	18559	38174	48551	72746
Big_Sandy_Ck_R170	306	5001	18362	37772	48228	72347
Big_Sandy_Ck_S032	2.2	307	866	1326	1551	2035
Big_Sandy_Ck_J190	2.2	307	866	1326	1551	2035
Big_Sandy_Ck_R180	2.2	296	859	1319	1541	2019
Big_Sandy_Ck_J200	2.2	296	859	1319	1541	2019

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Sandy_Ck_J210_abv	308.3	5026	18541	38178	48705	73082
Big_Sandy_Ck_S033	0.9	143	410	620	721	939
Big_Sandy_Ck_J210_blw	309.2	5031	18585	38294	48850	73318
Big_Sandy_Ck_R190	309.2	5005	18448	38041	48637	73085
Big_Sandy_Ck_S034	3.3	373	1094	1705	2010	2658
Big_Sandy_Ck_J220_abv	312.5	5042	18718	38640	49352	74213
Watson_Br_S010	4.1	468	1415	2204	2596	3427
Watson_Br_J010	4.1	468	1415	2204	2596	3427
Watson_Br_R010	4.1	465	1413	2202	2594	3425
Watson_Br_S020	2.7	463	1250	1880	2183	2838
Watson_Br_J020	2.7	463	1250	1880	2183	2838
Watson_Br_R020	2.7	457	1244	1871	2170	2817
Watson_Br_J030	6.8	878	2561	3947	4630	6088
Watson_Br_R030	6.8	821	2433	3790	4421	5758
Watson_Br_S030	2.1	352	976	1471	1709	2223
Watson_Br_J040	8.9	1089	3231	5037	5874	7630
Watson_Br_R040	8.9	831	2727	4701	5407	7059
Watson_Br_S040	0.2	30	88	134	156	203
Watson_Br_J050_abv	9.1	844	2778	4796	5515	7198
Twin_Pond_CK_S010	3.8	633	1498	2243	2604	3396
Twin_Pond_CK_J010	3.8	633	1498	2243	2604	3396
Twin_Pond_Ck_R010	3.8	519	1327	2040	2391	3130
Twin_Pond_CK_S020	2.8	361	1037	1597	1872	2460
Twin_Pond_CK_J020	6.6	830	2289	3549	4172	5485
Watson_Br_J050_blw	15.7	1613	4919	8251	9568	12443
Watson_Br_R050	15.7	1581	4879	8247	9478	12416
Watson_Br_S050	0.6	124	342	509	588	760
Watson_Br_J060	16.3	1628	5046	8569	9833	12891
Big_Sandy_Ck_J220_blw	328.8	5342	20493	42296	53577	80473
Big_Sandy_Ck_R200	328.8	5283	20089	41820	53177	79190
Big_Sandy_Ck_S035	5.2	677	1981	3050	3575	4696
Big_Sandy_Ck_J230_Gage	334	5320	20381	42558	54124	80607
Big_Sandy_Ck_R210	334	5276	20251	42516	53894	80092
Big_Sandy_Ck_S041	1.9	582	2657	3644	4075	5083
Big_Sandy_Ck_J240_abv	335.9	5288	20278	42562	53968	80238
Waggoner_Br_S010	3.3	1576	5479	7425	8268	10244
Waggoner_Br_J010	3.3	1576	5479	7425	8268	10244
Waggoner_Br_R010	3.3	1167	3621	5074	5526	6789
Waggoner_Br_S020	3.9	1632	6408	8701	9696	12020

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Waggoner_Br_J020	7.2	2657	9443	12959	14572	17764
Waggoner_Br_R020	7.2	1238	5275	9009	9531	11951
Waggoner_Br_S030	2.2	660	3222	4409	4925	6133
Waggoner_Br_J030_abv	9.4	1357	6004	10474	12496	15004
Rosebud_Br_S010	0.8	186	1698	2294	2557	3146
Rosebud_Br_J010	0.8	186	1698	2294	2557	3146
Rosebud_Br_R010	0.8	131	1299	1807	2025	2502
Rosebud_Br_S020	0.9	154	2039	2757	3075	3784
Rosebud_Br_J020	1.7	260	3090	4296	4811	5957
Rosebud_Br_R020	1.7	166	2154	3411	3801	4698
Rosebud_Br_S030	0.4	151	819	1103	1228	1510
Rosebud_Br_J040	2	263	2668	4228	4738	5849
Waggoner_Br_J030_blw	11.4	1557	7435	12250	14849	19408
Waggoner_Br_R030	11.4	1210	5459	9966	11314	14671
Waggoner_Br_S040	1.1	388	1539	2107	2355	2936
Waggoner_Br_J040	12.5	1303	5647	10589	12327	15922
Big_Sandy_Ck_J240_blw	348.4	5390	20798	43957	55503	82227
Big_Sandy_Ck_R220	348.4	5388	20791	43954	55490	82203
Big_Sandy_Ck_S042	1.8	531	2590	3544	3958	4929
Big_Sandy_Ck_J250	350.2	5398	20817	43993	55556	82333
Big_Sandy_Ck_R230	350.2	5373	20752	43960	55436	82111
Big_Sandy_Ck_S043	3.2	935	3858	5329	5976	7490
Big_Sandy_Ck_J260	353.4	5392	20802	44044	55562	82351
West_Fork_abv_Big_Sandy_Ck	71.1	5482	19063	32063	37386	50216
West_Fork_blw_Big_Sandy_Ck	424.4	8224	29267	58795	77097	109288
West_Fork_R200	424.4	8110	29217	58767	76777	109065
West_Fork_S181	1.5	361	2028	2794	3129	3910
West_Fork_J170	425.9	8125	29237	58795	76893	109258
West_Fork_R210	425.9	7074	28370	58214	74798	106270
West_Fork_S182	0.1	56	193	263	293	364
West_Fork_J190_abv	426.1	7075	28373	58219	74807	106285
West_Fork_S183	2.4	952	4307	5836	6502	8039
West_Fork_J180	2.4	952	4307	5836	6502	8039
West_Fork_R220	2.4	461	2690	4179	4659	5714
West_Fork_S184	4.5	1556	5188	7168	8044	10094
West_Fork_J190_blw	433	7139	28515	58452	75338	107194
West_Fork_R230	433	7090	28316	58230	75000	106731
Martin_Br_S010	4.1	2122	6287	8533	9505	11804
Martin_Br_J010	4.1	2122	6287	8533	9505	11804

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Martin_Br_R010	4.1	1187	4380	7019	7408	9072
Martin_Br_S020	3.7	1726	6765	9145	10177	12574
Martin_Br_J020	7.8	2097	8058	11833	13634	17773
Martin_Br_R020	7.8	1314	5235	8390	9255	12044
Martin_Br_S030	3.4	1164	5502	7493	8357	10374
Martin_Br_J030	11.3	2159	9719	14603	16444	20506
Martin_Br_R030	11.3	1683	8327	13639	15042	18957
Martin_Br_S040	0.2	72	364	490	545	670
Martin_Br_J060_abv	11.4	1693	8374	13727	15147	19099
Martin_Br_S050	5.3	1654	7988	10919	12193	15173
Martin_Br_J040	5.3	1654	7988	10919	12193	15173
Martin_Br_R040	5.3	951	5462	9008	9578	11910
Martin_Br_S060	5	1356	5974	8269	9282	11642
Martin_Br_J050	10.3	2255	11277	17234	18798	23420
Martin_Br_J060_blw	21.7	3909	19639	30949	33935	42519
West_Fork_S185	0.2	94	348	467	520	638
West_Fork_J200	454.9	7255	28742	59174	77026	109873
West_Fork_R240	454.9	6927	27785	58345	75431	107557
West_Fork_S191	4.1	1623	5281	7241	8097	10115
West_Fork_J210	459	6952	27853	58468	75640	107900
West_Fork_R250	459	6343	25382	56160	71377	103333
West_Fork_S192	6.7	2160	8639	11892	13317	16655
West_Fork_J220_abv_Salt_Ck	465.7	6364	25466	56304	71562	103719
Garrett_Ck_S001	2.8	983	4670	6941	7735	9567
Garrett_Ck_J010	2.8	983	4670	6941	7735	9567
Garrett_Ck_R010	2.8	678	3121	5116	5534	6787
Garrett_Ck_S002	1.6	687	2932	4252	4734	5835
Garrett_Ck_J030_abv	4.4	1076	4600	7460	8429	10556
Garrett_Ck_S003	2.7	845	4315	6423	7159	8862
Garrett_Ck_J020	2.7	845	4315	6423	7159	8862
Garrett_Ck_R020	2.7	482	3093	5322	5788	7370
Garrett_Ck_S004	0.4	193	885	1234	1373	1684
Garrett_Ck_J030_blw	7.4	1452	7242	12843	14236	17366
Garrett_Ck_R030	7.4	793	2948	5846	6454	8483
Garrett_Ck_S005	5.9	1381	6166	9792	10996	13798
Garrett_Ck_J040	13.4	1809	7414	12568	14294	18932
Garrett_Ck_R040	13.4	1175	4714	9656	11203	14597
Garrett_Ck_S006	1.7	680	3608	5181	5772	7099
Garrett_Ck_J050	1.7	680	3608	5181	5772	7099

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Garrett_Ck_R050	1.7	520	2913	4787	5207	6226
Garrett_Ck_J060_blw	15.1	1264	5090	10373	12032	15680
Garrett_Ck_R060	15.1	1168	4392	9602	11165	14599
Garrett_Ck_S007	3.8	985	4648	7218	8076	10080
Garrett_Ck_J070	18.9	1905	6935	12353	15307	20710
Garrett_Ck_R070	18.9	1140	3670	8899	10018	13950
Garrett_Ck_S008	3.6	883	3826	6047	6787	8511
Garrett_Ck_J080_abv	22.5	1674	5913	10021	12193	17566
Rush_Ck_S010	7.7	1991	8278	12753	14313	17949
Rush_Ck_J010	7.7	1991	8278	12753	14313	17949
Rush_Ck_R010	7.7	1002	5210	9658	10774	13324
Rush_Ck_S020	1.6	644	2887	4112	4579	5652
Rush_Ck_J020	9.3	1053	5424	10144	11367	14171
Rush_Ck_R020	9.3	980	4682	9848	10616	13391
Rush_Ck_S050	0.7	355	1508	2070	2304	2827
Rush_Ck_J040_abv	9.9	998	4731	10000	10788	13639
Rush_Ck_S030	5.7	1733	7416	11083	12387	15441
Rush_Ck_J030	5.7	1733	7416	11083	12387	15441
Rush_Ck_R030	5.7	1315	5913	9837	10910	13373
Rush_Ck_S040	1	383	1989	2806	3125	3854
Rush_Ck_J040_blw	16.6	2131	9022	16508	19447	25348
Rush_Ck_R040	16.6	1527	6526	14320	16457	21545
Rush_Ck_S060	3.3	1501	6383	9014	10035	12368
Rush_Ck_J050	20	2266	8377	15265	17793	24719
Rush_Ck_R050	20	1562	6002	14213	16301	21480
Rush_Ck_S070	1.3	384	1766	2623	2929	3645
Garrett_Ck_J080_blw	43.8	3343	11022	23132	28257	37385
Garrett_Ck_R080	43.8	3304	10846	23103	28164	37230
Garrett_Ck_S009	1.4	452	2278	3305	3684	4559
Garrett_Ck_J090	45.2	3447	11572	23346	28677	38607
Garrett_Ck_R090	45.2	2795	9543	23089	27573	36713
Garrett_Ck_S031	5.8	1646	7935	10904	12201	15232
Garrett_Ck_J100	50.9	3761	12454	24188	30857	42306
Garrett_Ck_R100	50.9	2864	9484	23714	28456	38164
Garrett_Ck_S032	3.3	1405	5949	8055	8972	11092
Garrett_Ck_J110	54.2	3440	9578	24196	29073	39097
Garrett_Ck_R110	54.2	2770	9342	23505	28655	38373
Garrett_Ck_S033	4.2	1048	4742	6597	7420	9330
Garrett_Ck_J120	58.5	2816	9437	24153	29464	39534

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Garrett_Ck_R120	58.5	1969	8444	20475	26026	37158
Salt_Ck_S001	2.8	779	2523	6152	6865	8527
Salt_Ck_J010	2.8	779	2523	6152	6865	8527
Salt_Ck_R010	2.8	524	1766	5102	5560	6853
Salt_Ck_S002	0.3	92	355	902	1005	1233
Salt_Ck_J020	3.1	539	1834	5269	5757	7119
Salt_Ck_S003	1.8	727	1856	4115	4587	5688
Salt_Ck_J030	1.8	727	1856	4115	4587	5688
Salt_Ck_R020	1.8	599	1709	3936	4447	5560
Salt_Ck_S004	0.2	106	297	659	733	898
Salt_Ck_J040	2	613	1756	4033	4577	5733
Salt_Ck_J050	5.1	1147	3514	9295	10266	12700
Salt_Ck_R030	5.1	512	1756	6053	6550	8164
Salt_Ck_S005	2.8	619	1999	4903	5498	6883
Salt_Ck_J070_abv	7.9	811	2728	9269	10710	13127
Salt_Ck_S006	5.6	1120	3597	8887	9999	12574
Salt_Ck_J060	5.6	1120	3597	8887	9999	12574
Salt_Ck_R040	5.6	831	3014	8453	9205	10981
Salt_Ck_S007	0.9	404	1123	2581	2873	3534
Salt_Ck_J070_blw	14.4	1501	5602	18077	20264	23864
Salt_Ck_R050	14.4	1210	4487	14163	15565	19643
Salt_Ck_S008	3	1001	2480	5385	6028	7537
Salt_Ck_J080_abv	17.4	1455	4793	15140	17155	21109
Salt_Ck_S009	3.5	697	2237	5526	6218	7820
Salt_Ck_J080_blw	21	2152	6178	19449	22690	28365
Gonzollas_Ck_S010	2.8	507	1928	5000	5611	7029
Gonzollas_Ck_J010	2.8	507	1928	5000	5611	7029
Gonzollas_Ck_R010	2.8	340	1468	3302	3581	4167
Gonzollas_Ck_S020	3.7	787	2611	6488	7275	9109
Gonzollas_Ck_J020	6.5	967	3606	9014	10040	12249
Gonzollas_Ck_R020	6.5	928	3327	8499	9401	11795
Gonzollas_Ck_S030	0.5	212	565	1271	1415	1745
Salt_Ck_J090_blw_GonzollasCK	28	3055	9432	28016	32305	40567
Salt_Ck_R060	28	2065	7216	24555	28098	34896
Salt_Ck_S011	3.2	977	4028	6062	6778	8455
Salt_Ck_J100_abv	31.1	2414	7556	25906	29727	37889
Pecan_Br_S010	2.6	459	2274	3649	4121	5207
Pecan_Br_J010	2.6	459	2274	3649	4121	5207
Salt_Ck_J100_blw_Pecan_Br	33.7	2873	9723	29056	33599	43028

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Salt_Ck_R070	33.7	2623	9304	28673	33317	42340
Salt_Ck_S012	0.3	154	705	984	1096	1347
Salt_Ck_J130_abv	34.1	2635	9362	28753	33433	42514
Salt_Ck_S013	4.1	1419	5115	7633	8531	10643
Salt_Ck_J110	4.1	1419	5115	7633	8531	10643
Salt_Ck_R080	4.1	1275	4605	7451	8145	9848
Salt_Ck_S014	0.9	355	1471	2128	2370	2935
Salt_Ck_J120	5	1452	5206	8974	10063	11567
Salt_Ck_J130_blw	39	3810	13900	33350	39252	51556
Salt_Ck_R090	39	3280	12574	32616	37981	49907
Salt_Ck_S015	0.2	84	337	475	529	652
Salt_Ck_J150_abv	39.2	3288	12603	32665	38047	50005
Salt_Ck_S016	1.5	456	2728	3915	4363	5384
Salt_Ck_J140	1.5	456	2728	3915	4363	5384
Salt_Ck_R100	1.5	186	1786	3082	3401	4113
Salt_Ck_S017	1.5	608	2605	3762	4190	5180
Salt_Ck_J150_blw	42.2	3519	13869	34343	40063	52990
Salt_Ck_R110	42.2	3201	12884	33987	39457	51607
Salt_Ck_S018	2.8	547	2639	4181	4711	5936
Salt_Ck_J160_abv	45	3359	14581	36945	42813	56197
Cottonwood_Ck_S010	1.3	430	2489	3539	3943	4866
Cottonwood_Ck_J010	1.3	430	2489	3539	3943	4866
Cottonwood_Ck_R010	1.3	58	972	1829	2063	2546
Cottonwood_Ck_S020	4.3	1045	4325	6711	7544	9482
Salt_Ck_J160_blw_Cottonwood	50.6	3948	18260	43294	50203	65311
Salt_Ck_R120	50.6	3185	14065	39536	45782	60002
Salt_Ck_S019	2	505	2099	3246	3647	4582
Salt_Ck_J170	52.6	3237	14404	40751	47274	61991
Salt_Ck_R130	52.6	3118	14372	43061	47254	61948
Salt_Ck_S021	2.2	650	3013	4139	4630	5780
Salt_Ck_J180_abv_Garrett_Ck	54.8	3150	14598	43948	48243	63317
Garrett_Ck_S034	1.7	551	1979	2734	3067	3846
Salt_Ck_J180_blw_Garrett_Ck	115	3885	17548	51038	64513	89151
Salt_Ck_R140	115	3832	17026	48433	63601	87336
Salt_Ck_S022	1.8	392	1704	2395	2707	3422
Salt_Ck_J190_abv_West_Fork	116.8	3847	17177	49627	64225	88674
West_Fork_J220_blw_Salt_Ck	582.4	7775	33372	74623	97138	144925
West_Fork_R260	582.4	7733	33212	74131	96113	141902
West_Fork_S201	0.6	279	998	1354	1508	1870

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_J230_abv	583	7737	33222	74148	96141	142005
Lola_Ck_S010	4.6	1435	6422	8808	9848	12284
Lola_Ck_J010	4.6	1435	6422	8808	9848	12284
Lola_Ck_R010	4.6	625	3239	5103	5588	6847
Lola_Ck_S020	4.4	968	4047	5699	6445	8160
West_Fork_J230_blw	592	7795	33341	74482	96794	144583
West_Fork_R270	592	7776	33242	74275	96334	142843
West_Fork_S202	0.7	383	1411	1899	2113	2601
West_Fork_J310_abv	592.7	7780	33255	74294	96362	142945
West_Fork_S203	6.2	2184	8055	11063	12378	15468
West_Fork_J240	6.2	2184	8055	11063	12378	15468
West_Fork_R280	6.2	1555	5819	8139	8772	11128
West_Fork_S204	4	1113	5205	7179	8045	10067
West_Fork_J250	10.2	2264	9276	13179	14896	18118
West_Fork_S205	2.1	915	3440	4672	5206	6458
West_Fork_J260	2.1	915	3440	4672	5206	6458
West_Fork_R290	2.1	587	2605	3771	4205	5157
West_Fork_S206	0.9	334	1543	2093	2331	2885
West_Fork_J270	3	815	3699	5390	6067	7468
West_Fork_J280	13.2	2922	12270	17607	19826	24919
West_Fork_R300	13.2	2920	12158	17305	19592	24485
West_Fork_S207	0.4	312	1192	1595	1773	2171
West_Fork_J290	13.6	2949	12268	17472	19803	24788
West_Fork_R310	13.6	2227	10784	16370	17883	22720
West_Fork_S208	0.8	365	1510	2043	2275	2813
West_Fork_J300	14.5	2266	10989	16751	18313	23302
West_Fork_J310_blw	607.2	7878	33465	74753	97327	146545
West_Fork_R320	607.2	7877	33459	74753	97292	146400
Walker_Ck_S010	3	975	4385	5993	6692	8330
Walker_Ck_J010	3	975	4385	5993	6692	8330
Walker_Ck_R010	3	837	3835	5322	6232	7980
Walker_Ck_S020	1.7	817	3108	4205	4681	5789
West_Fork_J320	611.9	7902	33528	74857	97479	147142
West_Fork_R330	611.9	7878	33444	74837	96983	145515
West_Fork_S209	2.6	1208	3844	5228	5828	7245
West_Fork_J330_Gage	614.5	7894	33481	74911	97090	145875
West_Fork_R340	614.5	7868	33442	74616	96623	144855
West_Fork_S211	1.6	481	1195	1944	2192	2767
West_Fork_abv_Deep_Ck	616	7879	33473	74673	96698	145104

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Deep_Ck_S10	2.7	808	2549	4246	4766	5974
Deep_Ck_J10	2.7	808	2549	4246	4766	5974
Deep_Ck_R10	2.7	526	1685	3372	3927	5157
Deep_Ck_S20	3.9	992	3154	5359	6038	7608
Deep_Ck_J20	6.6	1364	4433	8332	9632	12524
Deep_Ck_R20	6.6	1118	3883	7867	9185	11954
Deep_Ck_S30	1.5	467	1441	2391	2684	3363
Deep_Ck_abv_West_Fork	8.1	1350	4677	9494	11103	14476
West_Fork_blw_Deep_Ck	624.1	7930	33645	75013	97123	146543
West_Fork_R350	624.1	7925	33635	74947	97021	146371
West_Fork_S212	1.2	352	1196	2001	2244	2806
West_Fork_J340	625.3	7932	33661	74999	97083	146512
West_Fork_R360	625.3	7882	33489	74180	96130	144416
West_Fork_abv_Blue_Ck	625.3	7882	33489	74180	96130	144416
Blue_Ck_S10	3.3	797	2355	4000	4519	5717
Blue_Ck_J10	3.3	797	2355	4000	4519	5717
Blue_Ck_R10	3.3	781	2346	3991	4511	5718
Blue_Ck_S20	2.1	738	1991	3218	3610	4524
Blue_Ck_J20	2.1	738	1991	3218	3610	4524
Blue_Ck_R20	2.1	683	1840	3040	3436	4322
Blue_Ck_S25	0.9	385	1096	1746	1951	2429
Blue_Ck_J30	3	970	2637	4374	4952	6252
Blue_Ck_J40	6.3	1664	4773	8092	9141	11604
Blue_Ck_R30	6.3	1305	3848	7343	8376	10720
Blue_Ck_S40	1.3	530	1416	2260	2528	3155
Blue_Ck_J50	7.6	1531	4463	8672	9927	12747
Blue_Ck_S30	2.4	540	1659	2847	3221	4079
Blue_Ck_J60	9.9	2062	6082	11519	13139	16814
Blue_Ck_R40	9.9	2047	6064	11479	13122	16790
Blue_Ck_S50	0.1	85	235	352	391	481
Blue_Ck_J70	10.1	2057	6087	11533	13188	16880
Blue_Ck_R50	10.1	1605	5332	10354	12040	15658
Blue_Ck_S60	0.8	171	615	1065	1201	1514
Blue_Ck_abv_West_Fork	10.8	1671	5655	11055	12854	16766
West_Fork_blw_Blue_Ck	636.1	7949	33725	74670	96756	146091
West_Fork_R370	636.1	7946	33718	74628	96709	146053
West_Fork_S213	1	503	1270	1975	2205	2743
West_Fork_J350	637.2	7954	33747	74679	96767	146155
West_Fork_R380	637.2	7850	33450	73318	95171	142851

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_S214	4.2	998	2884	4893	5533	7008
West_Fork_J370_abv	641.3	7868	33518	73444	95320	143168
West_Fork_S215	2.8	477	2036	3643	4119	5208
West_Fork_J360	2.8	477	2036	3643	4119	5208
West_Fork_J370_blw	644.1	7876	33562	73534	95426	143352
West_Fork_R390	644.1	7870	33544	73438	95295	143166
Hog_Branch_S10	1.8	381	1894	3279	3677	4592
Hog_Branch_J10	1.8	381	1894	3279	3677	4592
Hog_Branch_R10	1.8	277	1403	2706	3099	3919
Hog_Branch_S20	4.6	862	3721	6580	7419	9348
Hog_Branch_J20	6.4	1137	5124	9286	10507	13252
Hog_Branch_R20	6.4	965	4431	8635	9847	12609
Hog_Branch_S30	3.9	635	2798	5044	5707	7223
Hog_Branch_J30	10.3	1540	7027	13583	15499	19793
Hog_Branch_R30	10.3	1218	6929	13448	15344	19651
Hog_Branch_S40	0.2	50	289	474	529	654
Hog_Branch_abv_West_Fork	10.5	1223	6965	13543	15458	19805
West_Fork_S216	0.8	218	752	1280	1440	1809
West_Fork_blw_Hog_Branch	655.5	7905	33745	73846	95770	144011
West_Fork_R400	655.5	7890	33743	73760	95672	143781
West_Fork_S217	0.2	63	264	443	495	616
West_Fork_abv_Dry_Fork	655.7	7891	33748	73770	95684	143797
Dry_Fork_S10	0.8	383	1312	1861	2075	2570
Dry_Fork_J10	0.8	383	1312	1861	2075	2570
Dry_Fork_R10	0.8	179	629	1095	1293	1738
Dry_Fork_S20	1	313	1321	1939	2168	2698
Dry_Fork_abv_West_Fork	1.8	462	1826	2886	3306	4270
West_Fork_blw_Dry_Fork	657.5	7900	33801	73859	95785	143946
West_Fork_R410	657.5	7830	33768	73696	95263	141242
Eagle_Mountain_S001	0.3	69	186	288	327	418
West_Fork_abv_Oates_Branch	657.8	7832	33773	73704	95272	141260
Oates_Branch_S10	1.7	651	1932	2829	3167	3956
Oates_Branch_J10	1.7	651	1932	2829	3167	3956
Oates_Branch_R10	1.7	462	1495	2301	2619	3383
Oates_Branch_S30	1.6	461	1521	2285	2569	3229
Oates_Branch_J30	3.2	905	2991	4561	5161	6584
Oates_Branch_S20	0.8	456	1507	2113	2354	2906
Oates_Branch_J20	0.8	456	1507	2113	2354	2906
Oates_Branch_R20	0.8	143	497	908	1084	1501

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Oates_Branch_S40	1	331	1202	1779	1993	2490
Oates_Branch_J40	1.9	418	1464	2429	2800	3727
Oates_Branch_J50	5.1	1292	4371	6919	7901	10239
Oates_Branch_R30	5.1	1156	4214	6820	7805	10105
Oates_Branch_S50	1.1	456	1463	2117	2365	2940
Oates_Branch_J60	1.1	456	1463	2117	2365	2940
Oates_Branch_R40	1.1	334	1225	1891	2114	2613
Oates_Branch_S60	2.5	639	2123	3245	3661	4622
Oates_Branch_J70	8.7	2070	7375	11678	13288	17046
Oates_Branch_R50	8.7	2070	7375	11678	13288	17046
Oates_Branch_S70	0.3	150	456	649	724	899
Oates_Branch_abv_West_Fork	9	2137	7594	12053	13712	17575
West_Fork_blw_Oates_Branch	666.8	7875	33988	74066	95681	141859
West_Fork_R420	666.8	7875	33988	74066	95681	141859
Eagle_Mountain_S002	4.2	1194	3423	5179	5842	7380
Eagle_Mountain_S003	2.2	751	2246	3328	3734	4683
West_Fork_J370	673.2	7904	34114	74274	95920	142213
West_Fork_R430	673.2	7904	34114	74274	95920	142213
Derrett_Ck_S30	3.4	947	3187	4807	5411	6809
Derrett_Ck_J30	3.4	947	3187	4807	5411	6809
Derrett_Ck_R30	3.4	937	3151	4757	5275	6617
Derrett_Ck_S40	0.6	429	1528	2084	2318	2845
Derrett_Ck_J50	4.1	1004	3315	5061	5610	7075
Derrett_Ck_R50	4.1	982	3194	4929	5329	6666
Derrett_Ck_S50	0.8	274	1007	1469	1643	2047
Derrett_Ck_J60	0.8	274	1007	1469	1643	2047
Derrett_Ck_R60	0.8	122	448	819	965	1321
Derrett_Ck_S60	1.5	572	1817	2652	2968	3704
Derrett_Ck_J70	6.3	1516	4764	7572	8456	10317
Derrett_Ck_abv_Eagle_Mountai	6.3	1516	4764	7572	8456	10317
Derrett_Ck_R80	6.3	1406	4720	7555	8425	10265
Eagle_Mountain_S004	1	564	1237	1751	1956	2440
West_Fork_J380	680.6	7949	34301	74583	96268	142730
Briar_Ck_S10	5.5	1527	5425	8174	9190	11543
Briar_Ck_J10	5.5	1527	5425	8174	9190	11543
Briar_Ck_R10	5.5	1172	4184	6942	8002	9555
Briar_Ck_S20	2.5	851	2669	3945	4425	5543
Briar_Ck_abv_Eagle_Mountain	8	1722	5817	9862	11278	13598
West_Fork_J390	688.5	8632	34472	74872	96598	143219

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_R440	688.5	8632	34472	74872	96598	143219
Eagle_Mountain_S005	0.8	709	1509	2064	2294	2823
West_Fork_J400	689.3	8802	34502	74920	96650	143290
West_Fork_R450	689.3	8802	34502	74920	96650	143290
Eagle_Mountain_S006	1.4	932	2196	3068	3414	4225
WestFork_abv_Eagle_Mountain	690.7	9220	34547	74991	96728	143402
Indian_Ck_S010	5.1	1653	4691	7022	7950	10215
Indian_Ck_J010_abv	5.1	1653	4691	7022	7950	10215
Indian_Ck_S020	2.8	835	2642	3982	4510	5791
Indian_Ck_J020	2.8	835	2642	3982	4510	5791
Indian_Ck_J030_blw_Trib	7.9	2488	7326	10976	12428	15970
Indian_Ck_R010	7.9	2038	5693	9417	10643	13493
Indian_Ck_S030	1.4	365	1340	2032	2303	2958
Indian_Ck_abv_Moss_Branch	9.3	2332	6672	11070	12543	15871
Moss_Branch_S010	2.8	755	2466	3750	4253	5472
Moss_Branch_J010	2.8	755	2466	3750	4253	5472
Moss_Branch_R010	2.8	411	1422	2401	2779	3653
Moss_Branch_S020	0.9	341	1081	1581	1781	2268
Moss_Branch_abv_Incdian_Ck	3.6	463	1600	2756	3218	4240
Indian_Ck_blw_Moss_Branch	13	2749	8065	13569	15462	19832
Indian_Ck_R020	13	1826	6016	11707	13448	16940
Indian_Ck_S040	3.4	927	3095	4708	5339	6870
Indian_Ck_J040	16.4	2218	7335	14690	17055	21113
Indian_Ck_R030	16.4	2218	7335	14690	17055	21113
Indian_Ck_S050	2.5	867	2305	3434	3886	4992
Indian_Ck_abv_West_Fork	18.9	2889	8760	17268	20127	25574
West_Fork_blw_Indian_Ck	709.7	11952	35909	75686	97515	144676
West_Fork_R460	709.7	11952	35909	75686	97515	144676
Gilmore_Branch_S010	5.4	1577	5194	7850	8887	11403
Gilmore_Branch_J010	5.4	1577	5194	7850	8887	11403
Gilmore_Branch_R010	5.4	840	2968	5535	6308	7945
Eagle_Mountain_S031	1.9	1208	2808	3968	4450	5629
West_Fork_J410	717.1	13252	39653	75897	97757	145106
Swift_Branch_S010	1.7	820	2728	3880	4356	5500
Swift_Branch_J010	1.7	820	2728	3880	4356	5500
Swift_Branch_R010	1.7	820	2728	3880	4356	5500
West_Fork_J420	718.7	13647	40594	75957	97825	145204
West_Fork_R470	718.7	13647	40594	75957	97825	145204
Walnut_Ck_S001	1.8	835	2027	2970	3368	4278

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut_Ck_J010	1.8	835	2027	2970	3368	4278
Walnut_Ck_R010	1.8	772	1956	2885	3253	4092
Walnut_Ck_S002	0.6	328	757	1086	1227	1551
Walnut_Ck_J020_abv	2.4	954	2475	3672	4118	5174
Walnut_Ck_S003	2	747	1828	2733	3113	3974
Walnut_Ck_J020_blw	4.3	1700	4297	6405	7230	9147
Walnut_Ck_R020	4.3	1386	3641	5921	6404	8019
Walnut_Ck_S004	2.5	1071	2347	3453	3920	4992
Walnut_Ck_J030_abv	6.8	2093	5393	8895	9748	11910
Goshen_Ck_S010	3	984	2439	3697	4222	5407
Goshen_Ck_J010	3	984	2439	3697	4222	5407
Goshen_Ck_R010	3	979	2418	3687	4194	5323
Goshen_Ck_S020	0.9	465	1017	1469	1662	2108
Walnut_Ck_J030_blw	10.7	3348	8403	13597	15141	18613
Walnut_Ck_R030	10.7	3015	7820	13046	14434	17777
Walnut_Ck_S005	1.4	590	1334	1964	2230	2839
Walnut_Ck_J050_abv	12.1	3272	8532	14388	15906	19506
Walnut_Ck_S006	1.9	810	1775	2614	2968	3780
Walnut_Ck_J035	1.9	810	1775	2614	2968	3780
Walnut_Ck_R040	1.9	792	1763	2572	2916	3672
Walnut_Ck_S007	0.4	327	697	974	1097	1377
Walnut_Ck_J040	2.3	873	1976	2882	3254	4078
Walnut_Ck_J050_blw	14.3	3812	9842	16752	18726	22722
Walnut_Ck_R050	14.3	3628	9357	16484	18144	22422
Walnut_Ck_S008	1.1	593	1234	1785	2019	2561
Walnut_Ck_J060_abv	15.4	3764	9752	17395	19060	23590
Browders_Ck_S010	2	1232	2781	3982	4495	5678
Browders_Ck_J010	2	1232	2781	3982	4495	5678
Browders_Ck_R010	2	611	1437	2233	2581	3331
Browders_Ck_S020	4.3	1187	2909	4486	5146	6621
Browders_Ck_J020	6.3	1759	4256	6624	7634	9841
Browders_Ck_R020	6.3	1595	4037	6422	7221	9105
Browders_Ck_S030	0.8	448	988	1422	1607	2035
Walnut_Ck_J060_blw	22.5	5402	13958	24278	26798	33251
Walnut_Ck_R060	22.5	5085	13106	23427	26272	32360
Walnut_Ck_S009	1.2	488	1064	1571	1786	2278
Walnut_Ck_J070_abv	23.7	5205	13473	24311	27155	33463
Dry_Br_S010	3.1	1189	2770	4135	4707	6009
Dry_Br_J010	3.1	1189	2770	4135	4707	6009

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dry_Br_R010	3.1	813	1994	3193	3680	4695
Dry_Br_S020	3.1	1206	2652	3939	4482	5723
Dry_Br_J020	6.2	1759	4058	6422	7401	9519
Dry_Br_R020	6.2	1554	3746	6097	6807	8939
Dry_Br_S030	0.9	457	998	1443	1632	2070
Dry_Br_J030	7.1	1667	4045	6697	7380	9771
Walnut_Ck_J070_blw	30.8	6611	17028	30841	34395	42604
Walnut_Ck_R070	30.8	6607	17001	30830	34373	42590
Woody_Ck_S010	3.9	1212	3133	4784	5469	7007
Woody_Ck_J010	3.9	1212	3133	4784	5469	7007
Woody_Ck_R010	3.9	646	1838	3506	4120	5249
Woody_Ck_S020	4.5	1255	2994	4596	5271	6779
Woody_Ck_J020	8.3	1479	3871	7149	8440	10934
Woody_Ck_R020	8.3	1407	3645	7003	7886	10512
Woody_Ck_S030	0.7	389	818	1179	1332	1687
Woody_Ck_J030_abv_Walnut_Ck	9	1490	3767	7306	8176	10980
Walnut_Ck_S010	0.4	255	614	869	981	1235
Walnut_Ck_J080_blw_Woody_Ck	40.2	8008	20788	38168	42587	53698
Walnut_Ck_R080	40.2	7880	20931	38025	42473	53493
Walnut_Ck_S011	0.2	149	350	500	564	712
Walnut_Ck_J090_abv	40.4	7884	20946	38078	42531	53576
Walnut_Ck_S012	2.4	820	1955	2950	3365	4304
Walnut_Ck_J080	2.4	820	1955	2950	3365	4304
Walnut_Ck_R090	2.4	803	1922	2919	3316	4185
Walnut_Ck_S013	1.3	772	1653	2375	2683	3396
Walnut_Ck_J090_blw	44.1	8160	21977	40479	44964	56704
Walnut_Ck_R100	44.1	8091	21740	40526	44789	56523
Walnut_Ck_S014	1.2	659	1536	2225	2516	3186
Walnut_Ck_J100_abv	45.4	8117	21867	41055	45181	57067
Walnut_Ck_Trib_S010	2.8	1081	2699	4038	4596	5863
Walnut_Ck_Trib_J010	2.8	1081	2699	4038	4596	5863
Walnut_Ck_Trib_R010	2.8	1039	2589	3967	4519	5739
Walnut_Ck_Trib_S020	0.4	249	587	837	944	1191
Walnut_Ck_Trib_J020_abv	3.2	1133	2816	4358	4973	6297
Walnut_Ck_Trib_S030	1.9	783	1815	2699	3068	3912
Walnut_Ck_Trib_J030	1.9	783	1815	2699	3068	3912
Walnut_Ck_Trib_R020	1.9	726	1740	2582	2918	3664
Walnut_Ck_Trib_S040	0.3	192	452	649	734	927
Walnut_Ck_Trib_J040	2.3	797	1939	2886	3259	4069

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut_Ck_Trib_J020_blw	5.5	1902	4746	7208	8160	10248
Walnut_Ck_Trib_R030	5.5	1721	4542	7111	8036	9920
Walnut_Ck_Trib_S050	1.1	577	1405	2043	2312	2931
Walnut_Ck_Trib_J050_abv	6.6	1930	5225	8385	9650	11546
Walnut_Ck_Trib_S060	1.6	565	1440	2171	2475	3163
Walnut_Ck_Trib_J070	1.6	565	1440	2171	2475	3163
Walnut_Ck_Trib_J060_blw	8.2	2382	6491	10468	12097	14493
Walnut_Ck_Trib_R040	8.2	2300	6353	10252	11737	14298
Walnut_Ck_Trib_S070	0.6	396	954	1359	1534	1934
Walnut_Ck_Trib_J080	8.8	2348	6552	10660	12230	14870
Walnut_Ck_Trib_R050	8.8	1951	5239	9356	10755	13471
Walnut_Ck_Trib_S080	1.2	433	1058	1587	1808	2309
Walnut_Ck_J100_blw	55.3	9753	26762	50974	55269	70382
Walnut_Ck_R110	55.3	9742	26712	50708	55353	70299
Walnut_Ck_S015	0.1	141	282	390	438	548
Walnut_Ck_J110_abv	55.5	9745	26719	50729	55379	70333
Walnut_Ck_S016	3.1	1315	2918	4302	4886	6226
Walnut_Ck_J110_blw	58.6	9943	27376	52641	57562	72690
Walnut_Ck_R120	58.6	9765	27013	51312	56967	72027
Walnut_Ck_S017	0.9	468	1017	1474	1667	2114
Walnut_Ck_J120_abv	59.5	9789	27120	51629	57337	72431
Walnut_Ck_S018	1.7	758	1718	2522	2861	3638
Walnut_Ck_J120_blw	61.2	9836	27346	52316	58112	73274
Walnut_Ck_R130	61.2	9807	27269	52212	58042	73186
Walnut_Ck_S019	1.3	835	1795	2556	2882	3640
Walnut_Ck_J130_Gage	62.5	9836	27356	52503	58387	73578
Walnut_Ck_R140	62.5	9747	26438	51562	57406	72642
Walnut_Ck_S021	0.1	92	255	360	405	506
Walnut_Ck_J140_abv	62.6	9750	26445	51580	57427	72669
Cottonwood_Br_S010	1.9	872	3027	4412	4966	6250
Cottonwood_Br_J010	1.9	872	3027	4412	4966	6250
Cottonwood_Br_R010	1.9	353	1331	2227	2561	3264
Cottonwood_Br_S020	3.6	1093	3528	5403	6119	7775
Walnut_Ck_J140_blw	68	9929	27194	53926	59750	75343
Walnut_Ck_R150	68	9860	26674	53399	59289	74958
Walnut_Ck_S022	1	400	1366	2025	2282	2879
Walnut_Ck_J150_abv	69	9879	26718	53568	59476	75204
Walnut_Ck_S023	1.6	555	1904	2876	3247	4107
Walnut_Ck_J160	1.6	555	1904	2876	3247	4107

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut_Ck_R160	1.6	463	1602	2548	2857	3531
Walnut_Ck_S024	0.8	372	1261	1839	2070	2602
Walnut_Ck_J170	2.3	679	2252	3670	4169	5242
Walnut_Ck_J150_blw	71.3	9928	26865	54177	60077	75933
Walnut_Ck_R170	71.3	9909	26759	53981	59945	75667
Walnut_Ck_S025	1.7	500	1610	2472	2801	3561
Walnut_Ck_J180	73	9945	26889	54503	60454	76276
Walnut_Ck_R180	73	8598	23217	51273	57015	72188
Walnut_Ck_S026	3.3	1052	3260	4971	5629	7150
Walnut_Ck_J200_abv	76.3	8654	23357	52032	57693	72966
Walnut_Ck_S027	2	746	2459	3691	4167	5273
Walnut_Ck_J190	2	746	2459	3691	4167	5273
Walnut_Ck_R190	2	562	2075	3402	3789	4715
Walnut_Ck_S028	1.3	576	1804	2659	2994	3776
Walnut_Ck_J200_blw	79.6	8712	23508	52718	58323	73731
Walnut_Ck_R200	79.6	8712	23508	52718	58323	73731
West_Fork_J430	798.3	16011	49557	95946	116272	159763
West_Fork_R480	798.3	16011	49557	95946	116272	159763
Dosier_Ck_S010	5.5	1954	5831	8636	9749	12464
Dosier_Ck_J010	5.5	1954	5831	8636	9749	12464
Dosier_Ck_R010	5.5	1954	5831	8636	9749	12464
Little_Dosier_Ck_S010	2.1	773	2476	3650	4115	5244
Little_Dosier_Ck_J010	2.1	773	2476	3650	4115	5244
Little_Dosier_Ck_R010	2.1	773	2476	3650	4115	5244
Dosier_Ck_J020	7.6	2713	8210	12188	13755	17569
Dosier_Ck_R020	7.6	2713	8210	12188	13755	17569
Eagle_Mountain_S032	24.3	7875	17060	25350	28758	37184
West_Fork_J440	830.2	25472	71119	116123	145584	207236
West_Fork_R490	830.2	25472	71119	116123	145584	207236
Ash_Ck_S010	2.9	547	3140	4871	5521	7010
Ash_Ck_J010	2.9	547	3140	4871	5521	7010
Ash_Ck_R010	2.9	268	1681	3349	3911	4948
Ash_Ck_S020	2.6	616	2727	4212	4773	6063
Ash_Ck_J020_abv	5.5	720	3384	6361	7478	9744
Ash_Ck_S030	3.9	665	3119	4982	5680	7262
Ash_Ck_J020_blw	9.3	1361	6447	11343	13115	16898
Ash_Ck_R020	9.3	977	4433	9284	10530	13424
Ash_Ck_S040	3.9	862	3916	6078	6895	8769
Ash_Ck_J030	13.2	1566	6429	12767	15735	19240

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Ash_Ck_R030	13.2	1030	4145	9548	11097	14470
Ash_Ck_S050	6.4	1596	5137	8002	9105	11626
Ash_Ck_J040	19.6	2095	6443	13284	15809	20824
Ash_Ck_R040	19.6	2028	6025	13147	15553	20211
Ash_Ck_S060	2.2	885	2701	3997	4510	5705
Ash_Ck_J050_abv	21.8	2447	7078	13875	16612	21945
Ash_Ck_S070	1.9	614	2286	3432	3877	4909
Ash_Ck_J050_blw	23.7	2858	8537	14555	17852	23820
Ash_Ck_R050	23.7	2187	6707	13825	16398	21684
Ash_Ck_S080	0.6	287	945	1387	1562	1968
Ash_Ck_J060	24.4	2225	6800	13938	16544	21904
Ash_Ck_S090	1.9	878	2839	4144	4665	5876
Ash_Ck_J070	1.9	878	2839	4144	4665	5876
Ash_Ck_J080	26.2	2346	7099	14266	16975	22568
Ash_Ck_R060	26.2	2346	7099	14266	16975	22568
Eagle_Mountain_S033	3.4	1754	4182	6010	6757	8593
West_Fork_J450	859.8	28880	80646	132083	164267	232619
Eagle_Mountain_Reservoir	859.8	7306	18864	30897	38246	57095
West_Fork_R500	859.8	7304	18859	30896	38243	57052
Lake_Worth_S010	21.3	2370	5866	9604	11137	14767
West_Fork_J460	881.1	8013	18986	31137	38524	57418
West_Fork_R510	881.1	8013	18986	31137	38524	57418
Silver_Ck_S010	2.5	149	973	1857	2161	2819
Silver_Ck_J010	2.5	149	973	1857	2161	2819
Silver_Ck_R010	2.5	144	951	1833	2119	2756
Silver_Ck_S020	1.9	95	601	1175	1378	1811
Silver_Ck_J020_abv	4.5	239	1539	2986	3482	4553
Silver_Ck_S030	3.7	392	1429	2570	2982	3884
Silver_Ck_J020_blw	8.2	628	2962	5549	6451	8416
Silver_Ck_R020	8.2	600	2836	5359	6252	8161
Silver_Ck_S040	1.8	202	917	1644	1894	2446
Silver_Ck_J030	10	740	3448	6523	7604	9924
Silver_Ck_R030	10	545	2884	5895	6943	9137
Silver_Ck_S050	1.3	195	599	1031	1188	1538
Silver_Ck_J050_abv	11.3	663	3267	6652	7831	10299
Silver_Ck_S060	1.9	260	1046	1833	2105	2712
Silver_Ck_J040	1.9	260	1046	1833	2105	2712
Silver_Ck_R040	1.9	256	977	1634	1878	2522
Silver_Ck_S070	1.9	230	977	1734	1996	2576

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Silver_Ck_J050_blw	15.1	969	4344	9107	10713	13971
Silver_Ck_R050	15.1	955	4280	9084	10700	13958
Silver_Ck_S080	0.4	64	312	528	601	765
Silver_Ck_J060_abv	15.4	968	4318	9205	10853	14180
Little_Silver_Ck_S010	1.8	269	1056	1836	2106	2709
Little_Silver_Ck_J010	1.8	269	1056	1836	2106	2709
Little_Silver_Ck_R010	1.8	253	1018	1792	2066	2670
Little_Silver_Ck_S020	2.1	344	1091	1866	2145	2768
Little_Silver_Ck_J020_abv	4	597	2109	3658	4207	5427
Little_Silver_Ck_S030	1.8	276	889	1533	1765	2280
Little_Silver_Ck_J020_blw	5.8	873	2993	5180	5958	7690
Little_Silver_Ck_R020	5.8	837	2877	5005	5416	6624
Little_Silver_Ck_S040	1.2	217	731	1243	1424	1829
Little_Silver_Ck_J030	7	1016	3486	6084	6579	8024
Little_Silver_Ck_R030	7	542	3454	5996	6547	7980
Little_Silver_Ck_S050	0.7	136	429	720	823	1056
Silver_Ck_J060_blw	23.2	1480	7344	15274	17735	22788
Silver_Ck_R060	23.2	1314	6705	13861	16315	21052
Silver_Ck_S090	4.3	555	2011	3545	4090	5295
Silver_Ck_J070	27.5	1551	7962	16381	19162	24690
Silver_Ck_R070	27.5	1500	7527	16037	18890	24007
Silver_Ck_S100	2.8	470	1463	2475	2836	3700
Silver_Ck_J080_abv	30.4	1669	8254	17610	20711	26227
Silver_Ck_S110	3.7	549	1617	2755	3169	4155
Silver_Ck_J080_blw	34.1	2058	9403	19909	23379	29610
Silver_Ck_R080	34.1	2008	9165	19573	23044	29325
Silver_Ck_S120	1.2	215	722	1221	1395	1813
Silver_Ck_J100_abv	35.3	2088	9401	20143	23718	30188
Silver_Ck_S130	1.6	359	1010	1651	1881	2437
Silver_Ck_J090	1.6	359	1010	1651	1881	2437
Silver_Ck_R090	1.6	67	481	1156	1417	1960
Silver_Ck_S140	2	421	1255	2064	2352	3049
Silver_Ck_J100_blw	38.9	2287	10266	22155	26123	33373
Silver_Ck_R100	38.9	2282	10254	22194	26119	33358
Silver_Ck_J110_abv_Mill_Ck	38.9	2282	10254	22194	26119	33358
Mill_Ck_S010	1.8	277	992	1702	1948	2537
Mill_Ck_J010	1.8	277	992	1702	1948	2537
Mill_Ck_R010	1.8	265	946	1645	1886	2468
Mill_Ck_S020	1.4	326	1114	1818	2062	2650

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) without NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Mill_Ck_J020	3.2	518	1695	2959	3391	4443
Mill_Ck_R020	3.2	120	1032	2653	3164	4236
Mill_Ck_S030	1.9	367	1085	1803	2060	2678
Mill_Ck_J030	5.1	468	1646	4214	5053	6794
Mill_Ck_R030	5.1	340	1526	3989	4816	6625
Mill_Ck_S040	1.8	369	1098	1814	2068	2682
Silver_Ck_J110_blw_Mill_Ck	45.8	2773	11956	26558	31325	40419
Silver_Ck_R110	45.8	2521	11330	22217	27190	38374
Silver_Ck_S150	2.2	523	1427	2308	2626	3397
Silver_Ck_J120	47.9	2636	11662	22818	27956	39689
Silver_Ck_R120	47.9	2619	11628	22695	27302	38599
Live_Oak_Ck_S010	5.6	966	2717	4537	5201	6793
Live_Oak_Ck_J010	5.6	966	2717	4537	5201	6793
Live_Oak_Ck_R010	5.6	861	2494	4241	4882	6431
Live_Oak_Ck_S020	2.4	577	1469	2360	2687	3482
Live_Oak_Ck_J020	8	1301	3648	6157	7083	9328
Live_Oak_Ck_R020	8	1301	3648	6157	7083	9328
Silver_Ck_J130	55.9	3305	13551	26048	31045	44284
Silver_Ck_R130	55.9	3305	13551	26048	31045	44284
Lake_Worth_S020	16.6	2584	5591	8710	10016	13177
Lake_Worth_Inflow	953.6	12563	31818	54606	63808	86142
Lake_Worth	953.6	8943	19733	32396	39948	59280
Lake_Worth_Outlet	953.6	8943	19733	32396	39948	59280
Dry_Fork_R20	1.8	450	1812	2866	3287	4252
West_Fork_R_100	2.8	477	2028	3641	4117	5210
Little_Silver_Ck_J040	7.7	583	3777	6545	7177	8730
Mill_Ck_J040	6.8	571	2068	5294	6429	8927
Silver_Ck_J100	3.6	437	1287	2483	3089	4403
Silver_Ck_J050	3.8	485	1914	3233	3713	4964

Table 6-4. Summary of Future 2070 Conditions Discharges for the West Fork of the Trinity River with NRCS losses

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_S010	60.5	4053	13554	24086	29378	41385
West_Fork_R010	60.5	735	3394	7995	11129	18824

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_S020	67.8	3609	12073	21346	26293	37451
West_Fork_abv_BrushyCk	128.2	3624	12109	21454	26485	38093
West_Fork_S030	62.3	2845	9882	17486	21598	30385
West_Fork_J010	190.5	6439	21888	38780	47906	68323
West_Fork_R020	190.5	4692	18552	34637	43528	62864
West_Fork_S040	40.5	2229	7550	13172	16136	22460
West_Fork_J020	231	6144	24230	45330	56908	81574
West_Fork_R030	231	3183	15142	33580	45208	70428
West_Fork_S050	32	2448	7215	12268	14918	20348
West_Fork_abv_CameronCk	263	3266	15918	36101	49323	77472
West_Fork_S060	69.1	3694	10889	19150	23739	33096
West_Fork_J030	332.1	5962	20519	47688	65563	102857
West_Fork_R040	332.1	4008	19004	43915	60333	96905
West_Fork_S070	50.4	2986	9657	16768	20580	29186
West_Fork_J040	382.5	5231	20708	48346	66777	108511
West_Fork_R050	382.5	4482	20343	47088	64709	105944
West_Fork_S080	19.5	2076	5957	9751	11680	15668
West_Fork_abv_TurkeyCk	402	4522	20461	47411	65304	107722
West_Fork_S090	37.1	2291	6982	12082	14818	20424
West_Fork_J050	439.1	4869	21590	50247	69524	115687
West_Fork_R060	439.1	4555	19752	46920	65654	110924
West_Fork_S100	37.7	2820	8143	13656	16647	22780
West_Fork_J060	476.8	4619	19957	47861	67302	115301
West_Fork_R070	476.8	3833	16823	39391	56246	96361
West_Fork_S120	50.1	2171	5569	11860	15365	23406
West_Fork_S110	22.3	1296	4068	7037	8631	11909
WestFork_abv_Big_Cleveland	549.3	3863	16988	40358	58061	100996
Big_Cleveland_S010	51.3	1905	3611	9865	13921	25076
Big_Cleveland_R010	51.3	1535	2845	7797	11501	22617
Big_Cleveland_S020	47.3	2599	6536	13255	16839	24852
Big_Cleveland_abv_WestFork	98.6	3395	7878	16454	22273	41551
West_Fork_J070	647.9	7243	18268	42254	62205	111231
West_Fork_R080	647.9	3922	16432	40042	58826	106559
West_Fork_S130	20.9	2311	6538	10480	12530	16789
West_Fork_J080_Gage	668.8	3976	16513	40202	59030	106861
West_Fork_R090	668.8	3833	16361	39639	58187	105673
WestFork_abv_Lost_Ck	668.8	3833	16361	39639	58187	105673
Lost_Ck_S010	28.8	2289	7360	11900	14247	19194
Lost_Creek_Reservoir	28.8	426	2412	8674	11670	17760

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Lost_Ck_R010	28.8	408	1989	5744	8128	12835
Lost_Ck_S020	13.5	471	5649	8797	10384	13716
Lost_Ck_abv_WestFork	42.3	490	5671	8833	10438	14249
West_Fork_+_Lost_Ck	711.1	4251	17249	40800	59716	108619
West_Fork_R100	711.1	3993	16569	39091	57238	104714
West_Fork_S140	39.5	374	11583	21006	25404	34357
West_Fork_abv_CarrollCk	750.6	3999	16752	39496	57768	105522
West_Fork_S150	41.3	815	12430	20409	24464	32842
West_Fork_J090	791.9	4010	25092	42833	58292	106312
West_Fork_R110	791.9	3975	16650	39215	57294	104446
West_Fork_S160	35.7	1711	13048	20664	24444	32413
WestFork_abv_Beans_Ck	827.6	4001	16884	39679	57897	105360
Beans_Ck_S010	35.7	821	13049	20921	24836	33003
Beans_Ck_R010	35.7	628	10038	17908	21366	29333
Beans_Ck_S020	11.3	629	7015	10537	12208	15842
Beans_Ck_abv_WestFork	47	822	11877	21642	26088	36081
West_Fork_+_Beans_Ck	874.6	4023	25086	42803	58857	106812
Big_Ck_S010	50.6	714	16258	26538	31688	42379
Big_Ck_J010	50.6	714	16258	26538	31688	42379
Big_Ck_R010	50.6	652	15252	26496	30778	40091
Big_Ck_S021	3.2	389	2576	3690	4197	5337
Big_Ck_J030_Abv	53.8	701	15546	27374	31678	41218
Big_Ck_S022	3.6	385	3750	5287	5975	7533
Big_Ck_J020	3.6	385	3750	5287	5975	7533
Big_Ck_R020	3.6	280	3088	4627	5277	6542
Big_Ck_S023	1.1	234	1533	2113	2370	2955
Big_Ck_J030_blw	58.5	911	15986	28655	33157	42763
Big_Ck_R030	58.5	774	15218	28325	32072	41347
Big_Ck_S024	5.7	1614	5358	7494	8452	10665
Big_Ck_J040	64.2	1933	15531	29666	33112	42702
Big_Ck_S031	4.4	874	4542	6330	7138	8989
Big_Ck_J050	4.4	874	4542	6330	7138	8989
Big_Ck_R040	4.4	391	2002	3287	3969	5197
Big_Ck_S032	4.3	638	3324	4733	5384	6855
Big_Ck_J100_abv	8.6	884	4644	7066	8319	10990
Big_Ck_S033	2.4	455	2440	3407	3844	4845
Big_Ck_J060	2.4	455	2440	3407	3844	4845
Big_Ck_S034	1.4	450	1885	2579	2887	3600
Big_Ck_J070	1.4	450	1885	2579	2887	3600

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Ck_J080	3.8	855	4107	5699	6415	8061
Big_Ck_R050	3.8	699	3519	4984	5756	7281
Big_Ck_S035	2.1	629	2503	3448	3870	4848
Big_Ck_J090	5.9	1246	5739	8114	9286	11906
Big_Ck_R060	5.9	1187	5421	7523	8610	11162
Big_Ck_S036	0.3	110	531	723	808	1003
Big_Ck_J100_blw	14.8	2051	9903	14375	16551	21667
Big_Ck_R070	14.8	923	5942	10724	12353	16283
Big_Ck_S037	4.6	1270	4509	6273	7070	8911
Big_Ck_J110	19.4	1622	7771	14061	16527	21104
Big_Ck_J120	83.6	3550	19625	39298	46522	58510
Big_Ck_R080	83.6	3552	19627	39284	46427	58459
Big_Ck_abv_Bridgeport	83.6	3552	19627	39284	46427	58459
Boons_Ck_S010	15.7	541	9597	14478	16790	21816
Boons_Ck_J010	15.7	541	9597	14478	16790	21816
Boons_Ck_R010	15.7	503	9241	14210	16418	20824
Boons_Ck_S020	2	574	2604	3626	4080	5164
Boons_Ck_J020	2	574	2604	3626	4080	5164
Boons_Ck_S030	0.8	327	1144	1579	1770	2234
Boons_Ck_J030_abv	18.4	1063	9942	15427	18017	22676
Boons_Ck_S040	4.6	123	3860	5645	6470	8314
Boons_Ck_J030_blw	23	1150	12662	19749	23561	29327
Boons_Ck_R020	23	716	7632	14007	16102	21472
Boons_Ck_S050	6.3	998	4766	6928	7931	10193
Boons_Ck_J040	29.3	1491	8904	16652	19391	25600
Boons_Ck_R030	29.3	1125	7428	14556	16992	22473
Boons_Ck_S060	2.3	482	2064	2956	3365	4302
Boons_Ck_J060_abv	31.7	1230	7513	14934	17381	23087
Boons_Ck_S070	2.9	78	2447	3579	4102	5271
Boons_Ck_J050	2.9	78	2447	3579	4102	5271
Boons_Ck_R040	2.9	40	1422	2284	2706	3512
Boons_Ck_S080	5.2	649	4474	6464	7378	9453
Boons_Ck_J060_blw	39.8	1491	9014	17181	20155	26487
Boons_Ck_R050	39.8	1103	7958	16610	19065	26041
Boons_Ck_S090	3.8	1323	4378	6120	6902	8751
Boons_Ck_J070_abv_Willow_Ck	43.6	1595	8129	16990	19513	26808
Willow_Ck_S010	5.3	797	6769	9392	10555	13209
Willow_Ck_J010	5.3	797	6769	9392	10555	13209
Willow_Ck_R010	5.3	230	2802	4264	4880	6080

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Willow_Ck_S020	1.4	467	2310	3147	3515	4360
Willow_Ck_J020_abv	6.7	529	3518	5536	6428	8224
Willow_Ck_S030	2.4	753	3065	4224	4736	5921
Willow_Ck_J020_blw	9.2	1249	6583	9754	11136	14093
Willow_Ck_R020	9.2	669	3914	5906	6534	8157
Willow_Ck_S040	1.6	582	2632	3580	3998	4954
Willow_Ck_J030_abv	10.8	924	4559	6768	7750	9923
Willow_Ck_S050	4.9	809	4028	5734	6509	8266
Willow_Ck_J030_blw	15.6	1664	8439	12286	14040	17391
Willow_Ck_R030	15.6	1649	7937	12142	13728	17063
Willow_Ck_S060	0.2	73	350	471	524	645
Willow_Ck_J040_abv	15.8	1658	7959	12191	13789	17148
Willow_Ck_S070	1.4	439	2079	2841	3176	3946
Willow_Ck_J040_blw	17.2	1890	8483	13184	14952	18548
Willow_Ck_R040	17.2	1764	8249	12688	14265	17934
Willow_Ck_S080	5.4	1181	4994	7021	7931	10019
Willow_Ck_J050	22.5	2865	12537	18797	21422	26491
Willow_Ck_R050	22.5	2752	11642	17745	19262	25487
Willow_Ck_S090	3.2	642	2684	3806	4314	5473
Boons_Ck_J070_blw_Willow_Ck	69.3	4502	20159	32880	39946	52933
Boons_Ck_R060	69.3	3132	18619	32172	38669	50587
Coal_Bed_Br_S010	5.1	1098	4629	6524	7376	9330
Coal_Bed_Br_R010	5.1	893	4396	6492	7178	8904
Boons_Ck_S100	1.7	1182	3164	4257	4735	5841
Boons_Ck_J080	76.2	3788	21054	36873	43342	58197
Jasper_Ck_S010	20	269	7024	11339	13490	17966
Jasper_Ck_R010	20	87	5288	9762	11553	15242
Jasper_Ck_S020	4.8	1797	6095	8471	9531	12057
Jasper_Ck_abv_Bridgeport	24.9	1802	6174	10268	12225	16262
Bridgeport_S002	21.8	9238	17063	23551	26494	33464
Bridgeport_S001	14.9	5332	13129	18282	20626	26051
Bridgeport_Inflow	1096	23383	86167	144006	174265	239015
Bridgeport_Reservoir	1096	5352	12295	21190	29761	72551
WHA_Bridgeport_Outflow	0	5324	11627	12802	21207	39116
West_Fork_S162	11.8	3160	10292	16756	19011	23958
West_Fork_J100	11.8	3160	10292	16756	19011	23958
West_Fork_S161	1.7	551	1844	2558	2876	3616
West_Fork_R120	0	5319	11486	12801	21205	39112
West_Fork_J110	13.5	5355	12097	19304	21876	39251

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_R130	13.5	5355	11697	18871	21432	39251
West_Fork_S163	8.9	2778	10157	14073	15807	19849
West_Fork_J120	22.4	6344	20782	31930	36297	45659
West_Fork_R140	22.4	6254	20851	32366	36100	45389
West_Fork_S164	2.7	1447	4921	6645	7395	9133
West_Fork_J130	25.1	6665	22006	34520	39810	48117
West_Fork_R150	25.1	5391	15355	27039	31725	40053
West_Fork_S165	5	2003	6978	9540	10656	13277
West_Fork_J140	30.1	6096	16697	29228	37284	45607
West_Fork_R160	30.1	5396	11169	18187	22046	39456
West_Fork_S166	9.2	2947	9651	13413	15091	18996
West_Fork_abv_Dry_Ck	39.3	5526	14580	20432	24213	39549
Dry_Ck_S010	5.7	1692	6511	9029	10144	12744
Dry_Ck_J010	5.7	1692	6511	9029	10144	12744
Dry_Ck_R010	5.7	1443	6483	8992	9857	12462
Dry_Ck_S020	0.8	541	2113	2831	3149	3859
Dry_Ck_J020_abv	6.5	1481	6685	9333	10235	12987
Dry_Ck_S030	3.8	720	4270	5960	6711	8446
Dry_Ck_J020_blw	10.3	2087	10951	15287	16819	21182
Dry_Ck_R020	10.3	609	5280	12996	13583	16505
Dry_Ck_S040	2.3	1566	4933	6620	7361	9044
Dry_Ck_J030	12.6	1714	5600	13828	14529	19494
Dry_Ck_R030	12.6	1092	4773	12000	13630	17131
Dry_Ck_S050	0.5	101	925	1254	1399	1727
Dry_Ck_J040_abv	13.1	1183	4801	12126	13762	17336
Dry_Ck_S060	2	521	2441	3382	3797	4763
Dry_Ck_J040_blw	15.1	1668	5985	13781	15718	20098
Dry_Ck_R040	15.1	1359	5169	12755	14665	19488
Dry_Ck_S070	1.5	459	700	1826	2745	4480
Dry_Ck_J050	1.5	459	700	1826	2745	4480
Dry_Ck_R050	1.5	276	470	1379	2177	3427
Dry_Ck_S080	0.6	90	1131	1536	1714	2118
Dry_Ck_J060_abv	2	322	1316	1908	2575	4384
Dry_Ck_J060_blw	17.1	1672	5666	13734	15923	22281
Dry_Ck_R060	17.1	1096	3945	8550	10896	15601
Dry_Ck_S090	3.8	380	4232	5942	6703	8447
Dry_Ck_J070	21	1338	6201	9266	11902	17811
Dry_Ck_R070	21	1219	5553	9170	11790	16928
Dry_Ck_S100	2.1	270	2905	4019	4508	5637

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dry_Ck_J080	2.1	270	2905	4019	4508	5637
Dry_Ck_R080	2.1	265	2883	3994	4461	5570
Dry_Ck_J090	23.1	1289	7472	11317	13610	18960
Dry_Ck_R090	23.1	961	3769	7983	10729	15770
Dry_Ck_S110	4.2	1446	5358	7369	8249	10316
Dry_Ck_abv_West_Fork	27.3	1849	6900	9892	11438	16722
West_Fork_blw_Dry_Ck	66.5	6949	20983	29643	35468	49205
West_Fork_R170	66.5	5640	19371	28898	35256	48631
West_Fork_J160_abv	66.5	5640	19371	28898	35256	48631
West_Fork_S171	2.6	939	4639	6294	7012	8679
West_Fork_J150	2.6	939	4639	6294	7012	8679
West_Fork_R180	2.6	88	1802	3296	3704	4484
West_Fork_S172	1.9	868	3063	4156	4629	5740
West_Fork_J160_blw	71.1	5781	21282	32745	37971	50214
West_Fork_R190	71.1	5479	18639	31418	36752	49842
Amon_G_Carter_S030	40.3	3161	9680	16285	19516	27056
Amon_G_Carter_S010	38.6	797	4136	9996	13469	23025
Amon_G_Carter_S020	30.6	1217	6157	10942	13364	18901
Amon_G_Carter_Inflow	109.5	5150	19839	36895	45989	68777
Amon_G_Carter_Lake	109.5	341	1277	7684	12833	30706
Big_Sandy_Ck_R010	109.5	335	1275	7230	12416	29739
Big_Sandy_Ck_S010	42	2986	8120	13994	16950	23725
Big_Sandy_Ck_J010	151.5	3057	8217	14135	17128	40708
Big_Sandy_Ck_R020	151.5	2953	8070	13938	16932	40500
Big_Sandy_Ck_S011	1.4	671	1540	2154	2428	3054
Big_Sandy_Ck_J030_abv	152.9	2966	8099	13981	17018	40560
Big_Sandy_Ck_S012	1	216	265	606	882	1477
Big_Sandy_Ck_J020	1	216	265	606	882	1477
Big_Sandy_Ck_R030	1	209	259	587	856	1440
Big_Sandy_Ck_J030_blw	153.9	2979	8126	14053	17129	40612
Big_Sandy_Ck_R040	153.9	2741	7837	13718	16816	40048
Big_Sandy_Ck_S013	1	230	630	931	1073	1383
Big_Sandy_Ck_J040	155	2746	7859	13781	16876	40083
Big_Sandy_Ck_R050	155	2727	7835	13749	16844	40040
Big_Sandy_Ck_S014	1.8	371	1021	1516	1749	2259
Big_Sandy_Ck_J050_abv	156.7	2737	7874	13857	17028	40099
Big_Sandy_Ck_S015	4.3	804	1855	2767	3207	4172
Big_Sandy_Ck_J050_blw	161	2868	8257	14583	17976	40415
Big_Sandy_Ck_R060	161	2504	7591	13868	17062	39181

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Sandy_Ck_S016	3.3	297	925	1509	1801	2409
Big_Sandy_Ck_J060	164.4	2540	7819	14358	17717	39442
Big_Sandy_Ck_R070	164.4	2406	7449	14045	17351	38880
Big_Sandy_Ck_S017	4.7	456	1375	2314	2766	3699
Big_Sandy_Ck_J070_abv	169	2427	7616	14454	17930	39090
Pringle_Ck_S010	7.8	1363	3178	4770	5542	7231
Pringle_Ck_J010	7.8	1363	3178	4770	5542	7231
Pringle_Ck_R010	7.8	1214	2827	4326	5048	6469
Pringle_Ck_S020	5.6	1000	2278	3411	3959	5163
Pringle_Ck_J030_abv	13.4	2164	4991	7586	8852	11394
Pringle_Ck_S030	3	975	2176	3119	3553	4532
Pringle_Ck_J020	3	975	2176	3119	3553	4532
Pringle_Ck_R020	3	724	1654	2499	2845	3600
Pringle_Ck_S040	1.5	408	921	1333	1524	1954
Pringle_Ck_J030_blw	17.9	2951	6857	10396	12155	15754
Pringle_Ck_R030	17.9	2572	6082	9817	11446	14703
Pringle_Ck_S050	2.9	688	1792	2632	3025	3890
Pringle_Ck_J040	20.8	2781	6694	11070	12959	16606
Pringle_Ck_R040	20.8	2492	6263	10717	12503	15999
Pringle_Ck_S060	1.5	268	769	1157	1341	1740
Pringle_Ck_J050	22.2	2558	6527	11335	13235	16923
Big_Sandy_Ck_J070_blw	191.3	3269	9245	18021	22177	40496
Big_Sandy_Ck_R080	191.3	2985	9108	17900	22119	40129
Big_Sandy_Ck_S018	1.5	278	784	1180	1369	1778
Big_Sandy_Ck_abv_Brushy_Ck	192.8	3021	9124	17943	22208	40163
Brushy_Ck_S010	30.7	2137	5912	9797	11874	16606
Brushy_Ck_J010	30.7	2137	5912	9797	11874	16606
Brushy_Ck_R010	30.7	1888	5500	9323	11437	16167
Brushy_Ck_S021	7.2	494	1454	2784	3392	4751
Brushy_Ck_J020	37.9	2109	6251	10952	13568	19354
Brushy_Ck_R020	37.9	2039	6172	10851	13439	19184
Brushy_Ck_S022	0.9	223	620	918	1052	1381
Brushy_Ck_J030_abv	38.8	2044	6184	10869	13468	19256
Brushy_Ck_S023	4.3	390	1238	2282	2731	3747
Brushy_Ck_J030_blw	43.1	2094	6423	11467	14310	20600
Brushy_Ck_R030	43.1	1920	6136	11236	14018	20221
Brushy_Ck_S024	1.3	193	606	953	1113	1492
Brushy_Ck_J050_abv	44.4	1924	6155	11298	14121	20420
Brushy_Ck_S025	1.8	191	416	1063	1403	2092

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Brushy_Ck_J040	1.8	191	416	1063	1403	2092
Brushy_Ck_R040	1.8	189	414	1057	1396	2078
Brushy_Ck_J050_blw	46.2	1928	6172	11373	14253	20683
Brushy_Ck_R050	46.2	1906	6137	11341	14214	20631
Brushy_Ck_S026	1.2	284	819	1220	1399	1838
Brusy_Ck_J060_abv_GrapevineC	47.4	1911	6152	11365	14242	20711
Grapevine_Ck_S010	4.5	538	1737	2899	3408	4600
Grapevine_Ck_J010	4.5	538	1737	2899	3408	4600
Grapevine_Ck_R010	4.5	499	1682	2804	3253	4324
Grapevine_Ck_S020	1.2	270	801	1197	1374	1807
Grapevine_Ck_J030_abv	5.6	595	2056	3435	3997	5291
Grapevine_Ck_S030	1	89	62	399	665	1277
Grapevine_Ck_J020	1	89	62	399	665	1277
Grapevine_Ck_R020	1	79	59	387	649	1251
Grapevine_Ck_J030_blw	6.6	661	2114	3801	4599	6317
Grapevine_Ck_R030	6.6	651	2087	3790	4576	6291
Grapevine_Ck_S040	0.3	56	171	261	301	399
Grapevine_Ck_J040	6.9	681	2186	3976	4813	6606
Brusy_Ck_J060_blw_GrapevineC	54.3	1936	6294	11820	14953	21991
Brushy_Ck_R060	54.3	1884	6197	11750	14873	21888
Brushy_Ck_S027	2.4	478	1394	2118	2444	3237
Brushy_Ck_J070	56.7	1892	6224	11792	14959	22109
Brushy_Ck_R070	56.7	1820	6077	11691	14843	21964
Brushy_Ck_S028	0.6	109	316	489	568	757
Brushy_Ck_J080	57.3	1822	6083	11707	14873	22033
Brushy_Ck_R080	57.3	1753	5907	11554	14704	21799
Brushy_Ck_S029	1.4	152	460	750	886	1205
Brusy_Ck_J090_abv_Dry_Hollow	58.7	1757	5933	11645	14846	22054
Dry_Hollow_Br_S010	2.3	364	1074	1881	2178	2821
Dry_Hollow_Br_J010	2.3	364	1074	1881	2178	2821
Dry_Hollow_Br_S020	1.3	95	67	534	865	1582
Dry_Hollow_Br_J020	1.3	95	67	534	865	1582
Dry_Hollow_Br_R010	1.3	75	55	519	845	1543
Dry_Hollow_Br_S030	0.6	124	256	703	814	1037
Dry_Hollow_Br_J030_abv	1.8	159	294	946	1379	2285
Dry_Hollow_Br_J030_blw	4.1	497	1299	2807	3529	5039
Dry_Hollow_Br_R020	4.1	496	1298	2807	3526	5039
Dry_Hollow_Br_S040	1.4	97	63	571	931	1711
Dry_Hollow_Br_J040	1.4	97	63	571	931	1711

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Dry_Hollow_Br_R030	1.4	88	58	561	921	1688
Dry_Hollow_Br_S050	0.4	85	226	438	500	638
Dry_Hollow_Br_J050	1.8	151	276	887	1323	2240
Dry_Hollow_Br_J060	5.9	642	1532	3692	4847	7261
Dry_Hollow_Br_R040	5.9	603	1484	3652	4734	6789
Dry_Hollow_Br_S060	3.1	481	1421	2484	2874	3721
Dry_Hollow_Br_J070	9	1068	2897	6130	7597	10463
Dry_Hollow_Br_R050	9	953	2549	5682	7308	9860
Dry_Hollow_Br_S070	1.5	374	935	1521	1736	2218
Dry_Hollow_Br_J080	10.4	1161	3123	6732	8581	11377
Dry_Hollow_Br_R060	10.4	1059	2885	6494	8496	11030
Dry_Hollow_Br_S080	0.8	111	322	568	659	857
Dry_Hollow_Br_J090_abv	11.2	1146	3155	7025	9148	11807
Brusy_Ck_J090_blw_Dry_Hollow	69.9	1788	6027	11937	15570	25596
Big_Sandy_Ck_blw_Brushy_Ck	262.7	4468	14807	29815	37736	57243
Big_Sandy_Ck_R090	262.7	4450	14790	29799	37730	57178
Big_Sandy_Ck_S021	0.7	190	529	774	883	1126
Big_Sandy_Ck_J080_abv	263.4	4453	14800	29814	37747	57272
Chicken_Ck_S010	1.6	314	906	1367	1576	2035
Chicken_Ck_J010	1.6	314	906	1367	1576	2035
Chicken_Ck_S020	1	92	63	435	724	1343
Chicken_Ck_J020	1	92	63	435	724	1343
Chicken_Ck_R010	1	88	61	422	712	1326
Chicken_Ck_J030	2.6	402	949	1778	2288	3351
Chicken_Ck_R020	2.6	284	744	1455	1865	2758
Chicken_Ck_S030	2.7	405	1234	1911	2224	2897
Chicken_Ck_J040	5.3	682	1960	3338	4065	5640
Big_Sandy_Ck_J080_blw	268.7	4468	14847	29979	38136	58800
Big_Sandy_Ck_R100	268.7	4444	14818	29960	38133	58728
Big_Sandy_Ck_S022	0.7	148	439	658	757	974
Big_Sandy_Ck_J090_abv	269.4	4447	14826	29973	38156	58853
Big_Sandy_Ck_Trib_S010	1.2	240	492	1073	1335	1802
Big_Sandy_Ck_Trib_J010	1.2	240	492	1073	1335	1802
Big_Sandy_Ck_Trib_R010	1.2	228	468	1029	1278	1724
Big_Sandy_Ck_Trib_S020	0.7	283	610	859	969	1222
Big_Sandy_Ck_Trib_J020	1.9	406	862	1616	1946	2588
Big_Sandy_Ck_Trib_R020	1.9	351	750	1419	1715	2304
Big_Sandy_Ck_Trib_S030	0.7	195	526	769	877	1119
Big_Sandy_Ck_Trib_J030	2.6	494	1158	1987	2373	3160

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Big_Sandy_Ck_J090_blw	272	4459	14857	30037	38304	59383
Big_Sandy_Ck_R110	272	4418	14798	30005	38291	59255
Big_Sandy_Ck_S023	0.4	85	253	381	439	565
Big_Sandy_Ck_J120_abv	272.4	4420	14803	30012	38306	59326
Big_Sandy_Ck_S024	2	184	163	764	1203	2154
Big_Sandy_Ck_J100	2	184	163	764	1203	2154
Big_Sandy_Ck_R115	2	100	109	570	954	1772
Big_Sandy_Ck_S025	1.3	362	1022	1495	1705	2174
Big_Sandy_Ck_J110	3.3	397	1060	1594	1884	3040
Big_Sandy_Ck_J120_blw	275.7	4430	14841	30138	38547	60057
Big_Sandy_Ck_R120	275.7	4429	14839	30137	38547	60054
Mudhole_Br_S010	2.6	384	1188	1845	2148	2800
Mudhole_Br_J010	2.6	384	1188	1845	2148	2800
Mudhole_Br_R010	2.6	317	1022	1690	1998	2590
Mudhole_Br_S020	1.1	209	624	944	1089	1407
Mudhole_Br_J020	3.7	455	1455	2409	2855	3719
Big_Sandy_Ck_J130	279.4	4440	14879	30267	39005	61174
Big_Sandy_Ck_R130	279.4	4345	14719	30198	38986	60921
Big_Sandy_Ck_S026	3.4	310	873	1426	1697	2268
Big_Sandy_Ck_J160_abv	282.8	4361	14851	30617	40008	62450
Big_Sandy_Ck_S027	1.4	381	676	1376	1707	2292
Big_Sandy_Ck_J140	1.4	381	676	1376	1707	2292
Big_Sandy_Ck_R140	1.4	334	594	1248	1559	2106
Big_Sandy_Ck_S028	1.8	368	941	1417	1636	2116
Big_Sandy_Ck_J150	3.2	681	1516	2595	3106	4100
Big_Sandy_Ck_J160_blw	286.1	4374	14883	30834	40566	63060
Big_Sandy_Ck_R150	286.1	4374	14883	30834	40565	63060
Briar_Br_S010	3.6	435	1295	2009	2362	3112
Briar_Br_J010	3.6	435	1295	2009	2362	3112
Briar_Br_S020	1.6	223	677	1050	1228	1607
Briar_Br_J020	1.6	223	677	1050	1228	1607
Briar_Br_J030	5.3	644	1943	3019	3546	4667
Briar_Br_R010	5.3	635	1915	2991	3515	4607
Briar_Br_S030	0.7	195	523	761	871	1114
Briar_Br_J040	6	729	2200	3443	4046	5291
Briar_Br_R020	6	727	2188	3417	4016	5242
Briar_Br_S040	0.3	79	202	294	337	431
Briar_Br_J050_abv	6.3	768	2303	3596	4226	5508
Walkers_Br_S010	2.7	321	972	1524	1792	2362

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walkers_Br_J010	2.7	321	972	1524	1792	2362
Walkers_Br_S020	1.2	176	343	820	1119	1658
Walkers_Br_J020	1.2	176	343	820	1119	1658
Walkers_Br_R010	1.2	162	330	800	1091	1627
Walkers_Br_J030	3.9	447	1258	2176	2672	3662
Walkers_Br_R020	3.9	435	1239	2157	2652	3628
Walkers_Br_S030	1.2	302	822	1197	1370	1752
Walkers_Br_J040	5.1	595	1721	2967	3636	4928
Walkers_Br_R030	5.1	595	1720	2961	3585	4927
Walkers_Br_S040	0.3	81	213	308	351	447
Walkers_Br_J050	5.4	642	1850	3170	3814	5272
Briar_Br_J050_blw	11.7	1394	4115	6679	7981	10547
Briar_Br_R030	11.7	828	2908	5378	7029	8895
Briar_Br_S050	1.6	221	649	995	1165	1526
Briar_Br_J060	13.3	953	3350	6143	8016	10125
Briar_Br_R040	13.3	874	3180	5984	7562	9894
Briar_Br_S060	2.7	276	824	1297	1534	2036
Briar_Br_J070	16.1	1056	3837	7153	8980	11752
Big_Sandy_Ck_J170	302.1	4744	16634	36258	46792	71151
Big_Sandy_Ck_R160	302.1	4636	15834	34730	45302	69816
Big_Sandy_Ck_S031	3.9	399	1231	2039	2417	3207
Big_Sandy_Ck_J180	306	4683	16121	35553	46285	71291
Big_Sandy_Ck_R170	306	4652	15938	35208	46000	70974
Big_Sandy_Ck_S032	2.2	307	866	1326	1551	2035
Big_Sandy_Ck_J190	2.2	307	866	1326	1551	2035
Big_Sandy_Ck_R180	2.2	296	859	1319	1541	2019
Big_Sandy_Ck_J200	2.2	296	859	1319	1541	2019
Big_Sandy_Ck_J210_abv	308.3	4676	16075	35586	46449	71670
Big_Sandy_Ck_S033	0.9	143	410	620	721	939
Big_Sandy_Ck_J210_blw	309.2	4680	16106	35693	46583	71894
Big_Sandy_Ck_R190	309.2	4660	15988	35478	46397	71706
Big_Sandy_Ck_S034	3.3	373	1094	1705	2010	2658
Big_Sandy_Ck_J220_abv	312.5	4696	16197	36043	47075	72782
Watson_Br_S010	4.1	468	1415	2204	2596	3427
Watson_Br_J010	4.1	468	1415	2204	2596	3427
Watson_Br_R010	4.1	465	1413	2202	2594	3425
Watson_Br_S020	2.7	330	748	1526	1955	2772
Watson_Br_J020	2.7	330	748	1526	1955	2772
Watson_Br_R020	2.7	326	743	1518	1946	2751

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Watson_Br_J030	6.8	761	2121	3637	4429	6030
Watson_Br_R030	6.8	710	1983	3485	4233	5701
Watson_Br_S030	2.1	352	976	1471	1709	2223
Watson_Br_J040	8.9	970	2740	4707	5675	7571
Watson_Br_R040	8.9	745	2324	4335	5241	6982
Watson_Br_S040	0.2	30	88	134	156	203
Watson_Br_J050_abv	9.1	759	2371	4426	5349	7122
Twin_Pond_CK_S010	3.8	633	1498	2243	2604	3396
Twin_Pond_CK_J010	3.8	633	1498	2243	2604	3396
Twin_Pond_Ck_R010	3.8	519	1327	2040	2391	3130
Twin_Pond_CK_S020	2.8	361	1037	1597	1872	2460
Twin_Pond_CK_J020	6.6	830	2289	3549	4172	5485
Watson_Br_J050_blw	15.7	1525	4469	7827	9403	12367
Watson_Br_R050	15.7	1496	4435	7813	9318	12338
Watson_Br_S050	0.6	124	342	509	588	760
Watson_Br_J060	16.3	1542	4596	8113	9676	12813
Big_Sandy_Ck_J220_blw	328.8	4978	17549	39457	51079	78773
Big_Sandy_Ck_R200	328.8	4938	17233	38577	50822	77626
Big_Sandy_Ck_S035	5.2	677	1981	3050	3575	4696
Big_Sandy_Ck_J230_Gage	334	4976	17447	39199	51755	78984
Big_Sandy_Ck_R210	334	4935	17337	38897	51597	78535
Big_Sandy_Ck_S041	1.9	582	2657	3644	4075	5083
Big_Sandy_Ck_J240_abv	335.9	4946	17364	38939	51672	78677
Waggoner_Br_S010	3.3	1576	5479	7425	8268	10244
Waggoner_Br_J010	3.3	1576	5479	7425	8268	10244
Waggoner_Br_R010	3.3	1167	3621	5074	5526	6789
Waggoner_Br_S020	3.9	1632	6408	8701	9696	12020
Waggoner_Br_J020	7.2	2657	9443	12959	14572	17764
Waggoner_Br_R020	7.2	1238	5275	9009	9531	11951
Waggoner_Br_S030	2.2	660	3222	4409	4925	6133
Waggoner_Br_J030_abv	9.4	1357	6004	10474	12496	15004
Rosebud_Br_S010	0.8	186	284	1116	1940	3146
Rosebud_Br_J010	0.8	186	284	1116	1940	3146
Rosebud_Br_R010	0.8	130	205	801	1419	2461
Rosebud_Br_S020	0.9	154	2039	2757	3075	3784
Rosebud_Br_J020	1.7	260	2208	3164	3907	5880
Rosebud_Br_R020	1.7	162	1310	2247	3083	4556
Rosebud_Br_S030	0.4	151	819	1103	1228	1510
Rosebud_Br_J040	2	263	1922	3055	3934	5677

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Waggoner_Br_J030_blw	11.4	1553	6874	11920	14628	19332
Waggoner_Br_R030	11.4	1205	5082	9560	11115	14530
Waggoner_Br_S040	1.1	388	1539	2107	2355	2936
Waggoner_Br_J040	12.5	1302	5253	10123	11959	15712
Big_Sandy_Ck_J240_blw	348.4	5049	17698	40001	53227	80609
Big_Sandy_Ck_R220	348.4	5047	17692	39984	53217	80589
Big_Sandy_Ck_S042	1.8	531	2590	3544	3958	4929
Big_Sandy_Ck_J250	350.2	5057	17718	40020	53284	80717
Big_Sandy_Ck_R230	350.2	5035	17664	39848	53200	80501
Big_Sandy_Ck_S043	3.2	935	3858	5329	5976	7490
Big_Sandy_Ck_J260	353.4	5054	17709	39922	53329	80736
West_Fork_abv_Big_Sandy_Ck	71.1	5479	18639	31418	36752	49842
West_Fork_blw_Big_Sandy_Ck	424.4	8050	26021	53542	73767	106262
West_Fork_R200	424.4	7936	25279	53514	73479	106062
West_Fork_S181	1.5	361	2028	2794	3129	3910
West_Fork_J170	425.9	7952	25451	53585	73579	106255
West_Fork_R210	425.9	6848	24599	52888	71781	103823
West_Fork_S182	0.1	56	193	263	293	364
West_Fork_J190_abv	426.1	6849	24601	52892	71789	103837
West_Fork_S183	2.4	952	4307	5836	6502	8039
West_Fork_J180	2.4	952	4307	5836	6502	8039
West_Fork_R220	2.4	461	2690	4179	4659	5714
West_Fork_S184	4.5	1556	5188	7168	8044	10094
West_Fork_J190_blw	433	6918	24745	53224	72251	104728
West_Fork_R230	433	6859	24678	53202	71955	104333
Martin_Br_S010	4.1	2122	6287	8533	9505	11804
Martin_Br_J010	4.1	2122	6287	8533	9505	11804
Martin_Br_R010	4.1	1187	4380	7019	7408	9072
Martin_Br_S020	3.7	1726	6765	9145	10177	12574
Martin_Br_J020	7.8	2097	8058	11833	13634	17773
Martin_Br_R020	7.8	1314	5235	8390	9255	12044
Martin_Br_S030	3.4	1164	5502	7493	8357	10374
Martin_Br_J030	11.3	2159	9719	14603	16444	20506
Martin_Br_R030	11.3	1683	8327	13639	15042	18957
Martin_Br_S040	0.2	72	364	490	545	670
Martin_Br_J060_abv	11.4	1693	8374	13727	15147	19099
Martin_Br_S050	5.3	1600	7696	10919	12193	15173
Martin_Br_J040	5.3	1600	7696	10919	12193	15173
Martin_Br_R040	5.3	910	4930	9005	9577	11910

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Martin_Br_S060	5	1356	5974	8269	9282	11642
Martin_Br_J050	10.3	2230	10664	17199	18797	23420
Martin_Br_J060_blw	21.7	3878	19026	30914	33933	42519
West_Fork_S185	0.2	94	348	467	520	638
West_Fork_J200	454.9	7034	25106	54795	73744	107414
West_Fork_R240	454.9	6685	24526	54117	72436	105256
West_Fork_S191	4.1	1623	5281	7241	8097	10115
West_Fork_J210	459	6710	24593	54255	72633	105595
West_Fork_R250	459	6124	22880	52743	69038	101180
West_Fork_S192	6.7	2160	8639	11892	13317	16655
West_Fork_J220_abv_Salt_Ck	465.7	6146	22963	52884	69224	101559
Garrett_Ck_S001	2.8	983	1500	3862	5925	9567
Garrett_Ck_J010	2.8	983	1500	3862	5925	9567
Garrett_Ck_R010	2.8	678	1055	2729	4193	6591
Garrett_Ck_S002	1.6	687	2932	4252	4734	5835
Garrett_Ck_J030_abv	4.4	1076	3568	5311	6439	10133
Garrett_Ck_S003	2.7	845	1290	3521	5442	8862
Garrett_Ck_J020	2.7	845	1290	3521	5442	8862
Garrett_Ck_R020	2.7	482	783	2622	4484	7137
Garrett_Ck_S004	0.4	193	885	1234	1373	1684
Garrett_Ck_J030_blw	7.4	1452	4524	6833	10344	16720
Garrett_Ck_R030	7.4	793	1576	3434	4821	7384
Garrett_Ck_S005	5.9	1381	5346	9792	10996	13798
Garrett_Ck_J040	13.4	1808	6366	11353	12975	17088
Garrett_Ck_R040	13.4	1174	3863	8356	10049	13266
Garrett_Ck_S006	1.7	680	1038	3119	4768	7099
Garrett_Ck_J050	1.7	680	1038	3119	4768	7099
Garrett_Ck_R050	1.7	520	778	2568	4204	6212
Garrett_Ck_J060_blw	15.1	1264	4009	9123	10954	14329
Garrett_Ck_R060	15.1	1168	3246	8084	10031	13236
Garrett_Ck_S007	3.8	985	4648	7218	8076	10080
Garrett_Ck_J070	18.9	1905	6018	10860	13233	19687
Garrett_Ck_R070	18.9	1140	2814	6620	9180	12760
Garrett_Ck_S008	3.6	883	3826	6047	6787	8511
Garrett_Ck_J080_abv	22.5	1674	5772	9342	11164	16953
Rush_Ck_S010	7.7	1988	3048	7503	10733	17610
Rush_Ck_J010	7.7	1988	3048	7503	10733	17610
Rush_Ck_R010	7.7	997	1733	5013	7844	12380
Rush_Ck_S020	1.6	644	2887	4112	4579	5652

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Rush_Ck_J020	9.3	1048	3350	5382	8376	13170
Rush_Ck_R020	9.3	976	2207	4850	7372	12156
Rush_Ck_S050	0.7	355	1508	2070	2304	2827
Rush_Ck_J040_abv	9.9	994	2827	4960	7530	12386
Rush_Ck_S030	5.7	1733	7416	11083	12387	15441
Rush_Ck_J030	5.7	1733	7416	11083	12387	15441
Rush_Ck_R030	5.7	1315	5913	9837	10910	13373
Rush_Ck_S040	1	383	1989	2806	3125	3854
Rush_Ck_J040_blw	16.6	2131	8539	14496	16446	23095
Rush_Ck_R040	16.6	1526	5440	10836	13858	19116
Rush_Ck_S060	3.3	1501	6383	9014	10035	12368
Rush_Ck_J050	20	2266	8374	13426	15574	21700
Rush_Ck_R050	20	1562	4993	10405	13967	19086
Rush_Ck_S070	1.3	384	1766	2623	2929	3645
Garrett_Ck_J080_blw	43.8	3343	10867	18938	24988	35394
Garrett_Ck_R080	43.8	3304	10705	18931	24909	34948
Garrett_Ck_S009	1.4	452	2278	3305	3684	4559
Garrett_Ck_J090	45.2	3447	11458	20083	25526	36206
Garrett_Ck_R090	45.2	2794	8419	17841	24252	33314
Garrett_Ck_S031	5.8	1646	7935	10904	12201	15232
Garrett_Ck_J100	50.9	3761	12430	21488	28044	40107
Garrett_Ck_R100	50.9	2863	8517	18468	25572	35061
Garrett_Ck_S032	3.3	1405	5949	8055	8972	11092
Garrett_Ck_J110	54.2	3440	9310	18979	26328	36043
Garrett_Ck_R110	54.2	2769	8293	18408	25641	35579
Garrett_Ck_S033	4.2	1048	4742	6597	7420	9330
Garrett_Ck_J120	58.5	2816	9224	19031	26611	37117
Garrett_Ck_R120	58.5	1967	7176	17407	23407	34396
Salt_Ck_S001	2.8	779	1189	3322	5126	8527
Salt_Ck_J010	2.8	779	1189	3322	5126	8527
Salt_Ck_R010	2.8	524	793	2461	3874	6614
Salt_Ck_S002	0.3	92	355	902	1005	1233
Salt_Ck_J020	3.1	539	893	2580	4034	6853
Salt_Ck_S003	1.8	727	1109	2445	3562	5671
Salt_Ck_J030	1.8	727	1109	2445	3562	5671
Salt_Ck_R020	1.8	599	963	2346	3458	5530
Salt_Ck_S004	0.2	106	297	659	733	898
Salt_Ck_J040	2	613	1016	2432	3573	5704
Salt_Ck_J050	5.1	1147	1897	4856	7384	12352

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Salt_Ck_R030	5.1	512	945	2944	4536	7372
Salt_Ck_S005	2.8	619	1999	4903	5498	6883
Salt_Ck_J070_abv	7.9	811	2480	5914	7663	12274
Salt_Ck_S006	5.6	1120	1719	4876	7229	12238
Salt_Ck_J060	5.6	1120	1719	4876	7229	12238
Salt_Ck_R040	5.6	831	1343	4315	6487	10558
Salt_Ck_S007	0.9	404	1123	2581	2873	3534
Salt_Ck_J070_blw	14.4	1501	3737	9291	13911	22384
Salt_Ck_R050	14.4	1210	2806	8163	11992	17596
Salt_Ck_S008	3	1001	2480	5385	6028	7537
Salt_Ck_J080_abv	17.4	1455	3833	9885	13104	18939
Salt_Ck_S009	3.5	697	1069	4358	5741	7820
Salt_Ck_J080_blw	21	2152	4852	14183	17626	25837
Gonzollas_Ck_S010	2.8	507	1928	5000	5611	7029
Gonzollas_Ck_J010	2.8	507	1928	5000	5611	7029
Gonzollas_Ck_R010	2.8	340	1468	3302	3581	4167
Gonzollas_Ck_S020	3.7	787	1205	3507	5288	8977
Gonzollas_Ck_J020	6.5	967	2163	6454	8314	12160
Gonzollas_Ck_R020	6.5	928	2060	5996	8075	11666
Gonzollas_Ck_S030	0.5	212	565	1271	1415	1745
Salt_Ck_J090_blw_GonzollasCK	28	3055	6855	19616	25936	37868
Salt_Ck_R060	28	2065	5022	16412	22291	32170
Salt_Ck_S011	3.2	977	4028	6062	6778	8455
Salt_Ck_J100_abv	31.1	2414	6692	17455	23930	34563
Pecan_Br_S010	2.6	459	724	2753	3671	5207
Pecan_Br_J010	2.6	459	724	2753	3671	5207
Salt_Ck_J100_blw_Pecan_Br	33.7	2873	7397	19806	27364	39585
Salt_Ck_R070	33.7	2623	6979	19805	26982	39031
Salt_Ck_S012	0.3	154	705	984	1096	1347
Salt_Ck_J130_abv	34.1	2635	7050	19884	27087	39195
Salt_Ck_S013	4.1	1419	2171	4661	6613	10583
Salt_Ck_J110	4.1	1419	2171	4661	6613	10583
Salt_Ck_R080	4.1	1275	1921	4237	6142	9705
Salt_Ck_S014	0.9	355	589	1992	2370	2935
Salt_Ck_J120	5	1452	2302	4877	7116	11270
Salt_Ck_J130_blw	39	3810	9201	23938	31981	47819
Salt_Ck_R090	39	3280	8045	23412	31173	45763
Salt_Ck_S015	0.2	84	337	475	529	652
Salt_Ck_J150_abv	39.2	3288	8073	23464	31234	45860

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Salt_Ck_S016	1.5	456	695	2039	3304	5381
Salt_Ck_J140	1.5	456	695	2039	3304	5381
Salt_Ck_R100	1.5	186	419	1423	2409	4021
Salt_Ck_S017	1.5	608	2605	3762	4190	5180
Salt_Ck_J150_blw	42.2	3519	8623	25066	33069	48609
Salt_Ck_R110	42.2	3201	8032	24752	32617	47251
Salt_Ck_S018	2.8	547	2009	4181	4711	5936
Salt_Ck_J160_abv	45	3359	9407	27779	35808	51526
Cottonwood_Ck_S010	1.3	430	656	1865	3008	4866
Cottonwood_Ck_J010	1.3	430	656	1865	3008	4866
Cottonwood_Ck_R010	1.3	58	109	867	1358	2349
Cottonwood_Ck_S020	4.3	1045	4325	6711	7544	9482
Salt_Ck_J160_blw_Cottonwood	50.6	3948	12680	33071	42140	60318
Salt_Ck_R120	50.6	3185	9519	28805	38419	54948
Salt_Ck_S019	2	505	2099	3246	3647	4582
Salt_Ck_J170	52.6	3237	10033	29754	39686	56645
Salt_Ck_R130	52.6	3118	9693	29856	40509	56652
Salt_Ck_S021	2.2	650	3013	4139	4630	5780
Salt_Ck_J180_abv_Garrett_Ck	54.8	3150	9869	30591	41421	57923
Garrett_Ck_S034	1.7	551	1979	2734	3067	3846
Salt_Ck_J180_blw_Garrett_Ck	115	3885	13395	38166	55815	83094
Salt_Ck_R140	115	3831	13310	38016	55065	81619
Salt_Ck_S022	1.8	392	1704	2395	2707	3422
Salt_Ck_J190_abv_West_Fork	116.8	3847	13381	39515	55742	82639
West_Fork_J220_blw_Salt_Ck	582.4	7733	29421	69656	92010	138613
West_Fork_R260	582.4	7680	29328	69229	91241	135113
West_Fork_S201	0.6	279	998	1354	1508	1870
West_Fork_J230_abv	583	7684	29338	69245	91269	135216
Lola_Ck_S010	4.6	1435	6422	8808	9848	12284
Lola_Ck_J010	4.6	1435	6422	8808	9848	12284
Lola_Ck_R010	4.6	625	3239	5103	5588	6847
Lola_Ck_S020	4.4	968	4047	5699	6445	8160
West_Fork_J230_blw	592	7745	29452	69565	91888	137805
West_Fork_R270	592	7716	29385	69380	91407	136084
West_Fork_S202	0.7	383	1411	1899	2113	2601
West_Fork_J310_abv	592.7	7720	29398	69399	91433	136185
West_Fork_S203	6.2	2184	8055	11063	12378	15468
West_Fork_J240	6.2	2184	8055	11063	12378	15468
West_Fork_R280	6.2	1555	5819	8139	8772	11128

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_S204	4	1113	5205	7179	8045	10067
West_Fork_J250	10.2	2264	9276	13179	14896	18118
West_Fork_S205	2.1	894	1370	2882	4095	6458
West_Fork_J260	2.1	894	1370	2882	4095	6458
West_Fork_R290	2.1	568	891	2148	3174	5019
West_Fork_S206	0.9	334	1543	2093	2331	2885
West_Fork_J270	3	808	2183	3415	4637	7215
West_Fork_J280	13.2	2894	10559	15977	18787	24759
West_Fork_R300	13.2	2894	10543	15833	18603	24312
West_Fork_S207	0.4	312	1192	1595	1773	2171
West_Fork_J290	13.6	2923	10641	15995	18807	24615
West_Fork_R310	13.6	2204	9329	15308	17256	22502
West_Fork_S208	0.8	365	1510	2043	2275	2813
West_Fork_J300	14.5	2243	9497	15660	17681	23084
West_Fork_J310_blw	607.2	7820	29598	69837	92305	139698
West_Fork_R320	607.2	7818	29590	69836	92275	139566
Walker_Ck_S010	3	975	4385	5993	6692	8330
Walker_Ck_J010	3	975	4385	5993	6692	8330
Walker_Ck_R010	3	837	3835	5322	6232	7980
Walker_Ck_S020	1.7	817	3108	4205	4681	5789
West_Fork_J320	611.9	7844	29658	69939	92448	140294
West_Fork_R330	611.9	7802	29539	69921	91996	138908
West_Fork_S209	2.6	1208	3844	5228	5828	7245
West_Fork_J330_Gage	614.5	7819	29575	69994	92096	139261
West_Fork_R340	614.5	7758	29548	69720	91676	138445
West_Fork_S211	1.6	481	1195	1944	2192	2767
West_Fork_abv_Deep_Ck	616	7770	29579	69777	91746	138681
Deep_Ck_S10	2.7	808	2549	4246	4766	5974
Deep_Ck_J10	2.7	808	2549	4246	4766	5974
Deep_Ck_R10	2.7	526	1685	3372	3927	5157
Deep_Ck_S20	3.9	992	3154	5359	6038	7608
Deep_Ck_J20	6.6	1364	4433	8332	9632	12524
Deep_Ck_R20	6.6	1118	3883	7867	9185	11954
Deep_Ck_S30	1.5	467	1441	2391	2684	3363
Deep_Ck_abv_West_Fork	8.1	1350	4677	9494	11103	14476
West_Fork_blw_Deep_Ck	624.1	7823	29747	70112	92158	140062
West_Fork_R350	624.1	7813	29740	70050	92070	139934
West_Fork_S212	1.2	352	1196	2001	2244	2806
West_Fork_J340	625.3	7820	29766	70102	92131	140066

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_R360	625.3	7749	29632	69321	91256	138371
West_Fork_abv_Blue_Ck	625.3	7749	29632	69321	91256	138371
Blue_Ck_S10	3.3	797	1230	2782	3678	5516
Blue_Ck_J10	3.3	797	1230	2782	3678	5516
Blue_Ck_R10	3.3	781	1222	2777	3676	5515
Blue_Ck_S20	2.1	738	1133	2334	3045	4446
Blue_Ck_J20	2.1	738	1133	2334	3045	4446
Blue_Ck_R20	2.1	683	1066	2174	2842	4214
Blue_Ck_S25	0.9	385	1096	1746	1951	2429
Blue_Ck_J30	3	970	1997	3411	4283	6124
Blue_Ck_J40	6.3	1664	2978	5850	7565	11192
Blue_Ck_R30	6.3	1304	2312	5152	6848	10297
Blue_Ck_S40	1.3	530	1416	2260	2528	3155
Blue_Ck_J50	7.6	1531	3118	6237	8210	12228
Blue_Ck_S30	2.4	540	1659	2847	3221	4079
Blue_Ck_J60	9.9	2062	4747	9058	11407	16307
Blue_Ck_R40	9.9	2047	4734	9030	11370	16267
Blue_Ck_S50	0.1	85	235	352	391	481
Blue_Ck_J70	10.1	2057	4765	9075	11430	16357
Blue_Ck_R50	10.1	1605	4056	8216	10311	15094
Blue_Ck_S60	0.8	171	615	1065	1201	1514
Blue_Ck_abv_West_Fork	10.8	1670	4409	8864	11073	16157
West_Fork_blw_Blue_Ck	636.1	7819	29829	69768	91838	139928
West_Fork_R370	636.1	7814	29824	69730	91798	139888
West_Fork_S213	1	503	1270	1975	2205	2743
West_Fork_J350	637.2	7823	29851	69781	91856	139985
West_Fork_R380	637.2	7699	29603	68464	90385	137247
West_Fork_S214	4.2	998	2884	4893	5533	7008
West_Fork_J370_abv	641.3	7718	29669	68589	90532	137549
West_Fork_S215	2.8	477	2036	3643	4119	5208
West_Fork_J360	2.8	477	2036	3643	4119	5208
West_Fork_J370_blw	644.1	7726	29711	68677	90636	137723
West_Fork_R390	644.1	7719	29697	68588	90514	137573
Hog_Branch_S10	1.8	381	1894	3279	3677	4592
Hog_Branch_J10	1.8	381	1894	3279	3677	4592
Hog_Branch_R10	1.8	277	1403	2706	3099	3919
Hog_Branch_S20	4.6	862	3721	6580	7419	9348
Hog_Branch_J20	6.4	1137	5124	9286	10507	13252
Hog_Branch_R20	6.4	965	4431	8635	9847	12609

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Hog_Brach_S30	3.9	635	2798	5044	5707	7223
Hog_Branch_J30	10.3	1540	7027	13583	15499	19793
Hog_Branch_R30	10.3	1218	6929	13448	15344	19651
Hog_Branch_S40	0.2	50	289	474	529	654
Hog_Branch_abv_West_Fork	10.5	1223	6965	13543	15458	19805
West_Fork_S216	0.8	218	752	1280	1440	1809
West_Fork_blw_Hog_Branch	655.5	7755	29892	68992	90983	138349
West_Fork_R400	655.5	7738	29890	68911	90892	138172
West_Fork_S217	0.2	63	264	443	495	616
West_Fork_abv_Dry_Fork	655.7	7739	29895	68921	90903	138188
Dry_Fork_S10	0.8	383	1312	1861	2075	2570
Dry_Fork_J10	0.8	383	1312	1861	2075	2570
Dry_Fork_R10	0.8	179	629	1095	1293	1738
Dry_Fork_S20	1	313	1321	1939	2168	2698
Dry_Fork_abv_West_Fork	1.8	462	1826	2886	3306	4270
West_Fork_blw_Dry_Fork	657.5	7749	29947	69009	91003	138335
West_Fork_R410	657.5	7672	29891	68854	90886	136159
Eagle_Mountain_S001	0.3	69	186	288	327	418
West_Fork_abv_Oastes_Branch	657.8	7673	29896	68862	90895	136176
Oates_Branch_S10	1.7	651	1932	2829	3167	3956
Oates_Branch_J10	1.7	651	1932	2829	3167	3956
Oates_Branch_R10	1.7	462	1495	2301	2619	3383
Oates_Branch_S30	1.6	461	1521	2285	2569	3229
Oates_Branch_J30	3.2	905	2991	4561	5161	6584
Oates_Branch_S20	0.8	456	1507	2113	2354	2906
Oates_Branch_J20	0.8	456	1507	2113	2354	2906
Oates_Branch_R20	0.8	143	497	908	1084	1501
Oates_Branch_S40	1	331	1202	1779	1993	2490
Oates_Branch_J40	1.9	418	1464	2429	2800	3727
Oates_Branch_J50	5.1	1292	4371	6919	7901	10239
Oates_Branch_R30	5.1	1156	4214	6820	7805	10105
Oates_Branch_S50	1.1	456	1463	2117	2365	2940
Oates_Branch_J60	1.1	456	1463	2117	2365	2940
Oates_Branch_R40	1.1	334	1225	1891	2114	2613
Oates_Branch_S60	2.5	639	2123	3245	3661	4622
Oates_Branch_J70	8.7	2070	7375	11678	13288	17046
Oates_Branch_R50	8.7	2070	7375	11678	13288	17046
Oates_Branch_S70	0.3	150	456	649	724	899
Oates_Branch_abv_West_Fork	9	2137	7594	12053	13712	17575

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_blw_Oates_Branch	666.8	7718	30105	69219	91305	136768
West_Fork_R420	666.8	7718	30105	69219	91305	136768
Eagle_Mountain_S002	4.2	1194	3423	5179	5842	7380
Eagle_Mountain_S003	2.2	751	2246	3328	3734	4683
West_Fork_J370	673.2	7747	30226	69425	91545	137119
West_Fork_R430	673.2	7747	30226	69425	91545	137119
Derrett_Ck_S30	3.4	947	3187	4807	5411	6809
Derrett_Ck_J30	3.4	947	3187	4807	5411	6809
Derrett_Ck_R30	3.4	937	3151	4757	5275	6617
Derrett_Ck_S40	0.6	429	1528	2084	2318	2845
Derrett_Ck_J50	4.1	1004	3315	5061	5610	7075
Derrett_Ck_R50	4.1	982	3194	4929	5329	6666
Derrett_Ck_S50	0.8	274	1007	1469	1643	2047
Derrett_Ck_J60	0.8	274	1007	1469	1643	2047
Derrett_Ck_R60	0.8	122	448	819	965	1321
Derrett_Ck_S60	1.5	572	1817	2652	2968	3704
Derrett_Ck_J70	6.3	1516	4764	7572	8456	10317
Derrett_Ck_abv_Eagle_Mountai	6.3	1516	4764	7572	8456	10317
Derrett_Ck_R80	6.3	1406	4720	7555	8425	10265
Eagle_Mountain_S004	1	564	1237	1751	1956	2440
West_Fork_J380	680.6	7792	30408	69731	91894	137628
Briar_Ck_S10	5.5	1527	5425	8174	9190	11543
Briar_Ck_J10	5.5	1527	5425	8174	9190	11543
Briar_Ck_R10	5.5	1172	4184	6942	8002	9555
Briar_Ck_S20	2.5	851	2669	3945	4425	5543
Briar_Ck_abv_Eagle_Mountain	8	1722	5817	9862	11278	13598
West_Fork_J390	688.5	8632	30573	70018	92224	138111
West_Fork_R440	688.5	8632	30573	70018	92224	138111
Eagle_Mountain_S005	0.8	709	1509	2064	2294	2823
West_Fork_J400	689.3	8802	30603	70064	92276	138182
West_Fork_R450	689.3	8802	30603	70064	92276	138182
Eagle_Mountain_S006	1.4	932	2196	3068	3414	4225
WestFork_abv_Eagle_Mountain	690.7	9220	30646	70135	92355	138292
Indian_Ck_S010	5.1	1653	4691	7022	7950	10215
Indian_Ck_J010_abv	5.1	1653	4691	7022	7950	10215
Indian_Ck_S020	2.8	835	2642	3982	4510	5791
Indian_Ck_J020	2.8	835	2642	3982	4510	5791
Indian_Ck_J030_blw_Trib	7.9	2488	7326	10976	12428	15970
Indian_Ck_R010	7.9	2038	5693	9417	10643	13493

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Indian_Ck_S030	1.4	365	1340	2032	2303	2958
Indian_Ck_abv_Moss_Branch	9.3	2332	6672	11070	12543	15871
Moss_Branch_S010	2.8	755	2466	3750	4253	5472
Moss_Branch_J010	2.8	755	2466	3750	4253	5472
Moss_Branch_R010	2.8	411	1422	2401	2779	3653
Moss_Branch_S020	0.9	341	1081	1581	1781	2268
Moss_Branch_abv_Incdian_Ck	3.6	463	1600	2756	3218	4240
Indian_Ck_blw_Moss_Branch	13	2749	8065	13569	15462	19832
Indian_Ck_R020	13	1826	6016	11707	13448	16940
Indian_Ck_S040	3.4	927	3095	4708	5339	6870
Indian_Ck_J040	16.4	2218	7335	14690	17055	21113
Indian_Ck_R030	16.4	2218	7335	14690	17055	21113
Indian_Ck_S050	2.5	867	2305	3434	3886	4992
Indian_Ck_abv_West_Fork	18.9	2889	8760	17268	20127	25574
West_Fork_blw_Indian_Ck	709.7	11952	35909	70819	93145	139529
West_Fork_R460	709.7	11952	35909	70819	93145	139529
Gilmore_Branch_S010	5.4	1577	5194	7850	8887	11403
Gilmore_Branch_J010	5.4	1577	5194	7850	8887	11403
Gilmore_Branch_R010	5.4	840	2968	5535	6308	7945
Eagle_Mountain_S031	1.9	1208	2808	3968	4450	5629
West_Fork_J410	717.1	13252	39653	71027	93388	139940
Swift_Branch_S010	1.7	820	2728	3880	4356	5500
Swift_Branch_J010	1.7	820	2728	3880	4356	5500
Swift_Branch_R010	1.7	820	2728	3880	4356	5500
West_Fork_J420	718.7	13647	40594	71086	93455	140037
West_Fork_R470	718.7	13647	40594	71086	93455	140037
Walnut_Ck_S001	1.8	835	2027	2970	3368	4278
Walnut_Ck_J010	1.8	835	2027	2970	3368	4278
Walnut_Ck_R010	1.8	772	1956	2885	3253	4092
Walnut_Ck_S002	0.6	328	757	1086	1227	1551
Walnut_Ck_J020_abv	2.4	954	2475	3672	4118	5174
Walnut_Ck_S003	2	747	1828	2733	3113	3974
Walnut_Ck_J020_blw	4.3	1700	4297	6405	7230	9147
Walnut_Ck_R020	4.3	1386	3641	5921	6404	8019
Walnut_Ck_S004	2.5	1071	2347	3453	3920	4992
Walnut_Ck_J030_abv	6.8	2093	5393	8895	9748	11910
Goshen_Ck_S010	3	984	2439	3697	4222	5407
Goshen_Ck_J010	3	984	2439	3697	4222	5407
Goshen_Ck_R010	3	979	2418	3687	4194	5323

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Goshen_Ck_S020	0.9	465	1017	1469	1662	2108
Walnut_Ck_J030_blw	10.7	3348	8403	13597	15141	18613
Walnut_Ck_R030	10.7	3015	7820	13046	14434	17777
Walnut_Ck_S005	1.4	590	1334	1964	2230	2839
Walnut_Ck_J050_abv	12.1	3272	8532	14388	15906	19506
Walnut_Ck_S006	1.9	810	1775	2614	2968	3780
Walnut_Ck_J035	1.9	810	1775	2614	2968	3780
Walnut_Ck_R040	1.9	792	1763	2572	2916	3672
Walnut_Ck_S007	0.4	327	697	974	1097	1377
Walnut_Ck_J040	2.3	873	1976	2882	3254	4078
Walnut_Ck_J050_blw	14.3	3812	9842	16752	18726	22722
Walnut_Ck_R050	14.3	3628	9357	16484	18144	22422
Walnut_Ck_S008	1.1	593	1234	1785	2019	2561
Walnut_Ck_J060_abv	15.4	3764	9752	17395	19060	23590
Browders_Ck_S010	2	1232	2781	3982	4495	5678
Browders_Ck_J010	2	1232	2781	3982	4495	5678
Browders_Ck_R010	2	611	1437	2233	2581	3331
Browders_Ck_S020	4.3	1187	2909	4486	5146	6621
Browders_Ck_J020	6.3	1759	4256	6624	7634	9841
Browders_Ck_R020	6.3	1595	4037	6422	7221	9105
Browders_Ck_S030	0.8	448	988	1422	1607	2035
Walnut_Ck_J060_blw	22.5	5402	13958	24278	26798	33251
Walnut_Ck_R060	22.5	5085	13106	23427	26272	32360
Walnut_Ck_S009	1.2	488	1064	1571	1786	2278
Walnut_Ck_J070_abv	23.7	5205	13473	24311	27155	33463
Dry_Br_S010	3.1	1189	2770	4135	4707	6009
Dry_Br_J010	3.1	1189	2770	4135	4707	6009
Dry_Br_R010	3.1	813	1994	3193	3680	4695
Dry_Br_S020	3.1	1206	2652	3939	4482	5723
Dry_Br_J020	6.2	1759	4058	6422	7401	9519
Dry_Br_R020	6.2	1554	3746	6097	6807	8939
Dry_Br_S030	0.9	457	998	1443	1632	2070
Dry_Br_J030	7.1	1667	4045	6697	7380	9771
Walnut_Ck_J070_blw	30.8	6611	17028	30841	34395	42604
Walnut_Ck_R070	30.8	6607	17001	30830	34373	42590
Woody_Ck_S010	3.9	1212	3133	4784	5469	7007
Woody_Ck_J010	3.9	1212	3133	4784	5469	7007
Woody_Ck_R010	3.9	646	1838	3506	4120	5249
Woody_Ck_S020	4.5	1255	2994	4596	5271	6779

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Woody_Ck_J020	8.3	1479	3871	7149	8440	10934
Woody_Ck_R020	8.3	1407	3645	7003	7886	10512
Woody_Ck_S030	0.7	389	818	1179	1332	1687
Woody_Ck_J030_abv_Walnut_Ck	9	1490	3767	7306	8176	10980
Walnut_Ck_S010	0.4	255	614	869	981	1235
Walnut_Ck_J080_blw_Woody_Ck	40.2	8008	20788	38168	42587	53698
Walnut_Ck_R080	40.2	7880	20931	38025	42473	53493
Walnut_Ck_S011	0.2	149	350	500	564	712
Walnut_Ck_J090_abv	40.4	7884	20946	38078	42531	53576
Walnut_Ck_S012	2.4	820	1955	2950	3365	4304
Walnut_Ck_J080	2.4	820	1955	2950	3365	4304
Walnut_Ck_R090	2.4	803	1922	2919	3316	4185
Walnut_Ck_S013	1.3	772	1653	2375	2683	3396
Walnut_Ck_J090_blw	44.1	8160	21977	40479	44964	56704
Walnut_Ck_R100	44.1	8091	21740	40526	44789	56523
Walnut_Ck_S014	1.2	659	1536	2225	2516	3186
Walnut_Ck_J100_abv	45.4	8117	21867	41055	45181	57067
Walnut_Ck_Trib_S010	2.8	1081	2699	4038	4596	5863
Walnut_Ck_Trib_J010	2.8	1081	2699	4038	4596	5863
Walnut_Ck_Trib_R010	2.8	1039	2589	3967	4519	5739
Walnut_Ck_Trib_S020	0.4	249	587	837	944	1191
Walnut_Ck_Trib_J020_abv	3.2	1133	2816	4358	4973	6297
Walnut_Ck_Trib_S030	1.9	783	1815	2699	3068	3912
Walnut_Ck_Trib_J030	1.9	783	1815	2699	3068	3912
Walnut_Ck_Trib_R020	1.9	726	1740	2582	2918	3664
Walnut_Ck_Trib_S040	0.3	192	452	649	734	927
Walnut_Ck_Trib_J040	2.3	797	1939	2886	3259	4069
Walnut_Ck_Trib_J020_blw	5.5	1902	4746	7208	8160	10248
Walnut_Ck_Trib_R030	5.5	1721	4542	7111	8036	9920
Walnut_Ck_Trib_S050	1.1	577	1405	2043	2312	2931
Walnut_Ck_Trib_J050_abv	6.6	1930	5225	8385	9650	11546
Walnut_Ck_Trib_S060	1.6	565	1440	2171	2475	3163
Walnut_Ck_Trib_J070	1.6	565	1440	2171	2475	3163
Walnut_Ck_Trib_J060_blw	8.2	2382	6491	10468	12097	14493
Walnut_Ck_Trib_R040	8.2	2300	6353	10252	11737	14298
Walnut_Ck_Trib_S070	0.6	396	954	1359	1534	1934
Walnut_Ck_Trib_J080	8.8	2348	6552	10660	12230	14870
Walnut_Ck_Trib_R050	8.8	1951	5239	9356	10755	13471
Walnut_Ck_Trib_S080	1.2	433	1058	1587	1808	2309

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut_Ck_J100_blw	55.3	9753	26762	50974	55269	70382
Walnut_Ck_R110	55.3	9742	26712	50708	55353	70299
Walnut_Ck_S015	0.1	141	282	390	438	548
Walnut_Ck_J110_abv	55.5	9745	26719	50729	55379	70333
Walnut_Ck_S016	3.1	1315	2918	4302	4886	6226
Walnut_Ck_J110_blw	58.6	9943	27376	52641	57562	72690
Walnut_Ck_R120	58.6	9765	27013	51312	56967	72027
Walnut_Ck_S017	0.9	468	1017	1474	1667	2114
Walnut_Ck_J120_abv	59.5	9789	27120	51629	57337	72431
Walnut_Ck_S018	1.7	758	1718	2522	2861	3638
Walnut_Ck_J120_blw	61.2	9836	27346	52316	58112	73274
Walnut_Ck_R130	61.2	9807	27269	52212	58042	73186
Walnut_Ck_S019	1.3	835	1795	2556	2882	3640
Walnut_Ck_J130_Gage	62.5	9836	27356	52503	58387	73578
Walnut_Ck_R140	62.5	9747	26438	51562	57406	72642
Walnut_Ck_S021	0.1	92	255	360	405	506
Walnut_Ck_J140_abv	62.6	9750	26445	51580	57427	72669
Cottonwood_Br_S010	1.9	872	3027	4412	4966	6250
Cottonwood_Br_J010	1.9	872	3027	4412	4966	6250
Cottonwood_Br_R010	1.9	353	1331	2227	2561	3264
Cottonwood_Br_S020	3.6	1093	3528	5403	6119	7775
Walnut_Ck_J140_blw	68	9929	27194	53926	59750	75343
Walnut_Ck_R150	68	9860	26674	53399	59289	74958
Walnut_Ck_S022	1	400	1366	2025	2282	2879
Walnut_Ck_J150_abv	69	9879	26718	53568	59476	75204
Walnut_Ck_S023	1.6	555	1904	2876	3247	4107
Walnut_Ck_J160	1.6	555	1904	2876	3247	4107
Walnut_Ck_R160	1.6	463	1602	2548	2857	3531
Walnut_Ck_S024	0.8	372	1261	1839	2070	2602
Walnut_Ck_J170	2.3	679	2252	3670	4169	5242
Walnut_Ck_J150_blw	71.3	9928	26865	54177	60077	75933
Walnut_Ck_R170	71.3	9909	26759	53981	59945	75667
Walnut_Ck_S025	1.7	500	1610	2472	2801	3561
Walnut_Ck_J180	73	9945	26889	54503	60454	76276
Walnut_Ck_R180	73	8598	23217	51273	57015	72188
Walnut_Ck_S026	3.3	1052	3260	4971	5629	7150
Walnut_Ck_J200_abv	76.3	8654	23357	52032	57693	72966
Walnut_Ck_S027	2	746	2459	3691	4167	5273
Walnut_Ck_J190	2	746	2459	3691	4167	5273

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Walnut_Ck_R190	2	562	2075	3402	3789	4715
Walnut_Ck_S028	1.3	576	1804	2659	2994	3776
Walnut_Ck_J200_blw	79.6	8712	23508	52718	58323	73731
Walnut_Ck_R200	79.6	8712	23508	52718	58323	73731
West_Fork_J430	798.3	16011	49557	95894	116181	159464
West_Fork_R480	798.3	16011	49557	95894	116181	159464
Dosier_Ck_S010	5.5	1954	5831	8636	9749	12464
Dosier_Ck_J010	5.5	1954	5831	8636	9749	12464
Dosier_Ck_R010	5.5	1954	5831	8636	9749	12464
Little_Dosier_Ck_S010	2.1	773	2476	3650	4115	5244
Little_Dosier_Ck_J010	2.1	773	2476	3650	4115	5244
Little_Dosier_Ck_R010	2.1	773	2476	3650	4115	5244
Dosier_Ck_J020	7.6	2713	8210	12188	13755	17569
Dosier_Ck_R020	7.6	2713	8210	12188	13755	17569
Eagle_Mountain_S032	24.3	7875	17060	25350	28758	37184
West_Fork_J440	830.2	25472	71119	116119	145493	206937
West_Fork_R490	830.2	25472	71119	116119	145493	206937
Ash_Ck_S010	2.9	547	3140	4871	5521	7010
Ash_Ck_J010	2.9	547	3140	4871	5521	7010
Ash_Ck_R010	2.9	268	1681	3349	3911	4948
Ash_Ck_S020	2.6	616	2727	4212	4773	6063
Ash_Ck_J020_abv	5.5	720	3384	6361	7478	9744
Ash_Ck_S030	3.9	665	3119	4982	5680	7262
Ash_Ck_J020_blw	9.3	1361	6447	11343	13115	16898
Ash_Ck_R020	9.3	977	4433	9284	10530	13424
Ash_Ck_S040	3.9	862	3916	6078	6895	8769
Ash_Ck_J030	13.2	1566	6429	12767	15735	19240
Ash_Ck_R030	13.2	1030	4145	9548	11097	14470
Ash_Ck_S050	6.4	1596	5137	8002	9105	11626
Ash_Ck_J040	19.6	2095	6443	13284	15809	20824
Ash_Ck_R040	19.6	2028	6025	13147	15553	20211
Ash_Ck_S060	2.2	885	2701	3997	4510	5705
Ash_Ck_J050_abv	21.8	2447	7078	13875	16612	21945
Ash_Ck_S070	1.9	614	2286	3432	3877	4909
Ash_Ck_J050_blw	23.7	2858	8537	14555	17852	23820
Ash_Ck_R050	23.7	2187	6707	13825	16398	21684
Ash_Ck_S080	0.6	287	945	1387	1562	1968
Ash_Ck_J060	24.4	2225	6800	13938	16544	21904
Ash_Ck_S090	1.9	878	2839	4144	4665	5876

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Ash_Ck_J070	1.9	878	2839	4144	4665	5876
Ash_Ck_J080	26.2	2346	7099	14266	16975	22568
Ash_Ck_R060	26.2	2346	7099	14266	16975	22568
Eagle_Mountain_S033	3.4	1754	4182	6010	6757	8593
West_Fork_J450	859.8	28880	80646	132079	164176	232320
Eagle_Mountain_Reservoir	859.8	7296	18140	29712	36964	56077
West_Fork_R500	859.8	7280	18134	29686	36961	56038
Lake_Worth_S010	21.3	2370	5866	9604	11137	14767
West_Fork_J460	881.1	8013	18259	29918	37246	56402
West_Fork_R510	881.1	8013	18259	29918	37246	56402
Silver_Ck_S010	2.5	149	973	1857	2161	2819
Silver_Ck_J010	2.5	149	973	1857	2161	2819
Silver_Ck_R010	2.5	144	951	1833	2119	2756
Silver_Ck_S020	1.9	95	601	1175	1378	1811
Silver_Ck_J020_abv	4.5	239	1539	2986	3482	4553
Silver_Ck_S030	3.7	392	1429	2570	2982	3884
Silver_Ck_J020_blw	8.2	628	2962	5549	6451	8416
Silver_Ck_R020	8.2	600	2836	5359	6252	8161
Silver_Ck_S040	1.8	202	917	1644	1894	2446
Silver_Ck_J030	10	740	3448	6523	7604	9924
Silver_Ck_R030	10	545	2884	5895	6943	9137
Silver_Ck_S050	1.3	195	599	1031	1188	1538
Silver_Ck_J050_abv	11.3	663	3267	6652	7831	10299
Silver_Ck_S060	1.9	260	1046	1833	2105	2712
Silver_Ck_J040	1.9	260	1046	1833	2105	2712
Silver_Ck_R040	1.9	256	977	1634	1878	2522
Silver_Ck_S070	1.9	230	977	1734	1996	2576
Silver_Ck_J050_blw	15.1	969	4344	9107	10713	13971
Silver_Ck_R050	15.1	955	4280	9084	10700	13958
Silver_Ck_S080	0.4	64	312	528	601	765
Silver_Ck_J060_abv	15.4	968	4318	9205	10853	14180
Little_Silver_Ck_S010	1.8	268	421	1047	1485	2444
Little_Silver_Ck_J010	1.8	268	421	1047	1485	2444
Little_Silver_Ck_R010	1.8	253	401	1019	1445	2399
Little_Silver_Ck_S020	2.1	344	1091	1866	2145	2768
Little_Silver_Ck_J020_abv	4	596	1492	2875	3588	5166
Little_Silver_Ck_S030	1.8	276	889	1533	1765	2280
Little_Silver_Ck_J020_blw	5.8	872	2376	4407	5351	7429
Little_Silver_Ck_R020	5.8	837	2292	4268	5074	6416

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Little_Silver_Ck_S040	1.2	217	731	1243	1424	1829
Little_Silver_Ck_J030	7	1016	2902	5307	6307	7808
Little_Silver_Ck_R030	7	537	2876	5245	6221	7767
Little_Silver_Ck_S050	0.7	136	429	720	823	1056
Silver_Ck_J060_blw	23.2	1480	6793	14587	17383	22577
Silver_Ck_R060	23.2	1313	6280	13272	15837	20854
Silver_Ck_S090	4.3	555	2011	3545	4090	5295
Silver_Ck_J070	27.5	1550	7498	15740	18751	24477
Silver_Ck_R070	27.5	1500	7102	15428	18447	23804
Silver_Ck_S100	2.8	470	1463	2475	2836	3700
Silver_Ck_J080_abv	30.4	1669	7812	16979	20291	26020
Silver_Ck_S110	3.7	549	1617	2755	3169	4155
Silver_Ck_J080_blw	34.1	2058	8943	19252	22975	29398
Silver_Ck_R080	34.1	2008	8730	18940	22611	29116
Silver_Ck_S120	1.2	215	722	1221	1395	1813
Silver_Ck_J100_abv	35.3	2088	8961	19497	23291	29977
Silver_Ck_S130	1.6	350	550	1100	1440	2222
Silver_Ck_J090	1.6	350	550	1100	1440	2222
Silver_Ck_R090	1.6	66	166	688	961	1676
Silver_Ck_S140	2	409	643	1424	1857	2832
Silver_Ck_J100_blw	38.9	2280	9281	20905	25202	32933
Silver_Ck_R100	38.9	2274	9263	20934	25199	32915
Silver_Ck_J110_abv_Mill_Ck	38.9	2274	9263	20934	25199	32915
Mill_Ck_S010	1.8	277	992	1702	1948	2537
Mill_Ck_J010	1.8	277	992	1702	1948	2537
Mill_Ck_R010	1.8	265	946	1645	1886	2468
Mill_Ck_S020	1.4	326	1114	1818	2062	2650
Mill_Ck_J020	3.2	518	1695	2959	3391	4443
Mill_Ck_R020	3.2	120	1032	2653	3164	4236
Mill_Ck_S030	1.9	367	1085	1803	2060	2678
Mill_Ck_J030	5.1	468	1646	4214	5053	6794
Mill_Ck_R030	5.1	340	1526	3989	4816	6625
Mill_Ck_S040	1.8	369	1098	1814	2068	2682
Silver_Ck_J110_blw_Mill_Ck	45.8	2763	10903	25184	30338	39841
Silver_Ck_R110	45.8	2514	10295	21294	25687	37761
Silver_Ck_S150	2.2	523	1427	2308	2626	3397
Silver_Ck_J120	47.9	2627	10603	21883	26396	39037
Silver_Ck_R120	47.9	2611	10574	21768	25959	37948
Live_Oak_Ck_S010	5.6	966	2717	4537	5201	6793

Hydrologic Element	Drainage Area (sq.mi.)	Future Condition Peak Discharge (cfs) with NRCS losses				
		2-yr	10-yr	50-yr	100-yr	500-yr
Live_Oak_Ck_J010	5.6	966	2717	4537	5201	6793
Live_Oak_Ck_R010	5.6	861	2494	4241	4882	6431
Live_Oak_Ck_S020	2.4	572	1406	2359	2687	3482
Live_Oak_Ck_J020	8	1295	3606	6156	7083	9328
Live_Oak_Ck_R020	8	1295	3606	6156	7083	9328
Silver_Ck_J130	55.9	3292	12390	25093	29635	43506
Silver_Ck_R130	55.9	3292	12390	25093	29635	43506
Lake_Worth_S020	16.6	2584	5591	8710	10016	13177
Lake_Worth_Inflow	953.6	12552	30747	53661	62408	85443
Lake_Worth	953.6	8940	19594	31133	38670	58251
Lake_Worth_Outlet	953.6	8940	19594	31133	38670	58251
Dry_Fork_R20	1.8	450	1812	2866	3287	4252
West_Fork_R_100	2.8	477	2028	3641	4117	5210
Little_Silver_Ck_J040	7.7	577	3202	5783	6847	8515
Mill_Ck_J040	6.8	571	2068	5294	6429	8927
Silver_Ck_J100	3.6	426	669	1478	2108	3685
Silver_Ck_J050	3.8	485	1914	3233	3713	4964

7 Conclusions

The future condition modeling indicates that floodplain encroachments and increases in urban development produce measurable increases in peak flow throughout the watershed. The upper watershed at West Fork Junction J080 (USGS gage 08042800 West Fork Trinity River nr Jacksboro, TX) shows a small change, with peak discharge increasing by approximately 1%. Farther downstream, the mid-basin locations experience more pronounced increases, with the Big Sandy Creek Junction J230 (USGS gage 08044000 Big Sandy Ck nr Bridgeport, TX) rising peak flows by 16% and West Fork Junction J330 (USGS gage 08044500 West Fork Trinity River near Boyd, TX) by 39%. Additional increases occur at Walnut Creek Junction J130 (USGS Gage 08044800 Walnut Ck at Reno, TX) by 17% and at the Lake Worth reservoir outlet by 13%. These results show that the effects of encroached development vary across the basin, with the largest changes occurring in the central reaches and progressively influencing downstream flow conditions.

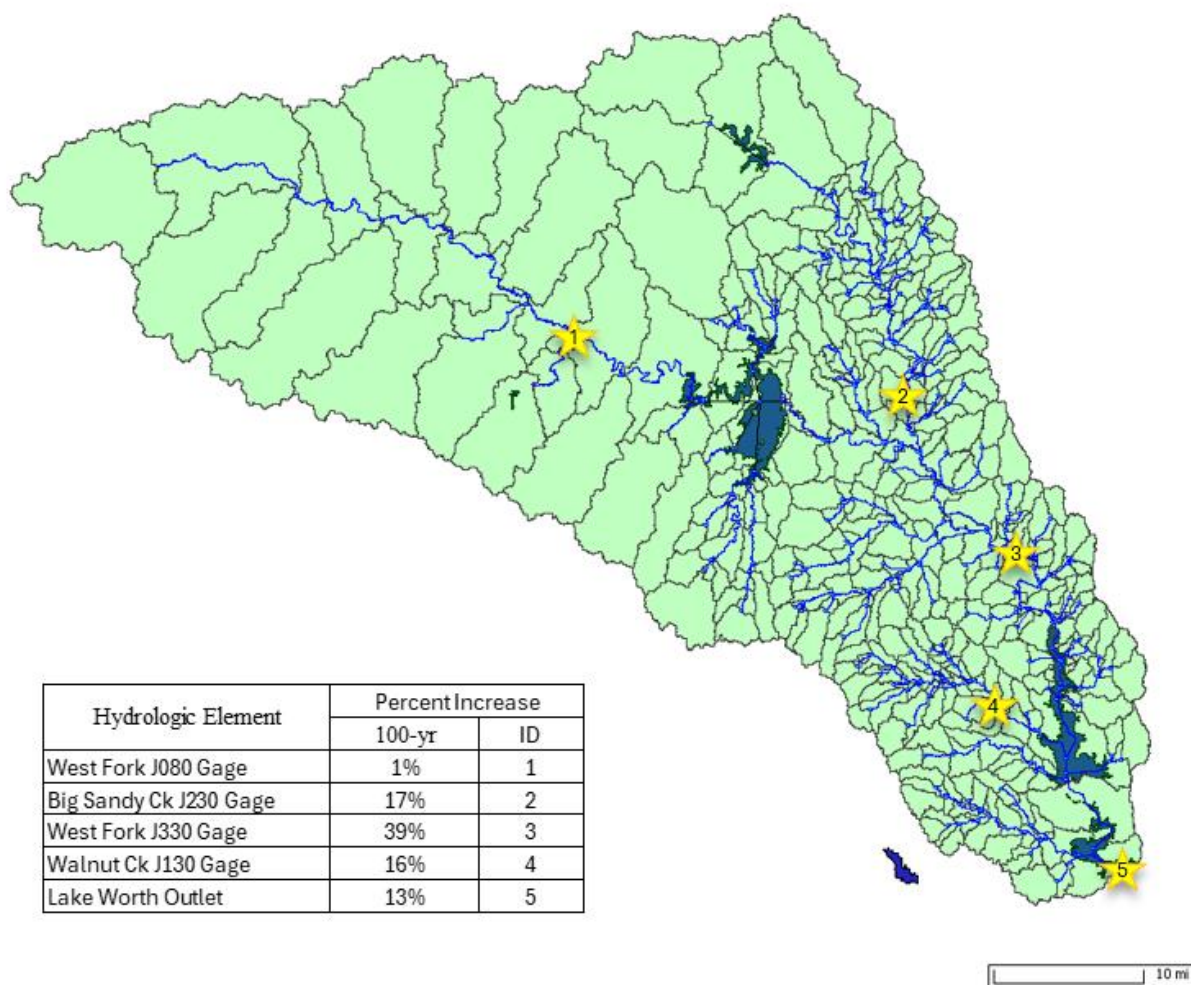


Figure 7-1 Percent Differences between Existing and Future Conditions 100-year Peak Discharges

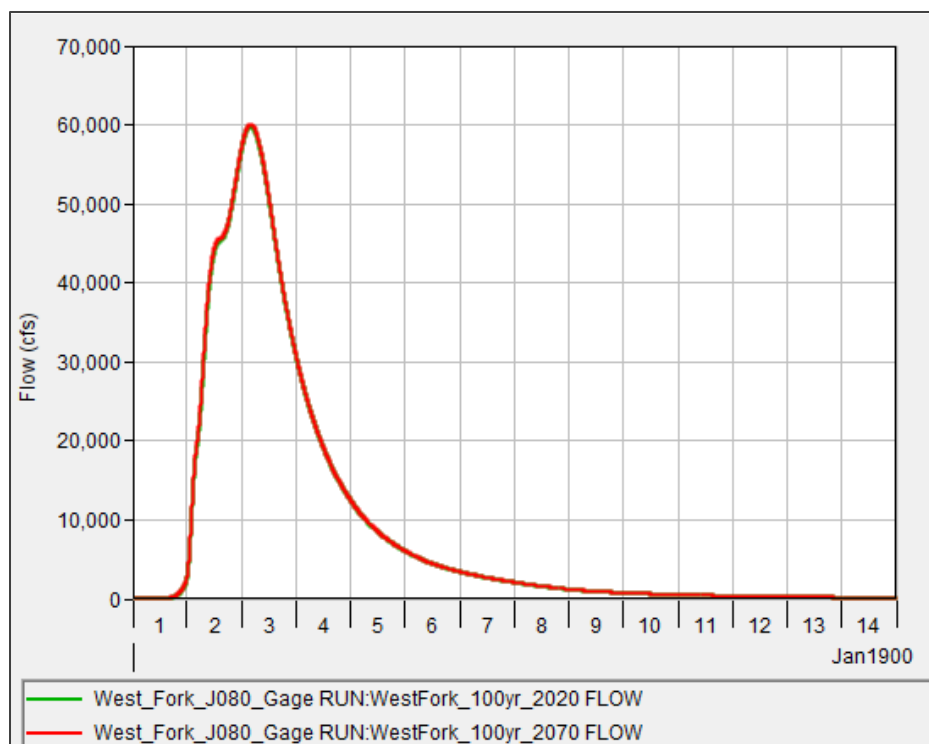


Figure 6-2 2070 Discharge Increase from 2020 – West Fork J080 Gage near Jacksboro, TX

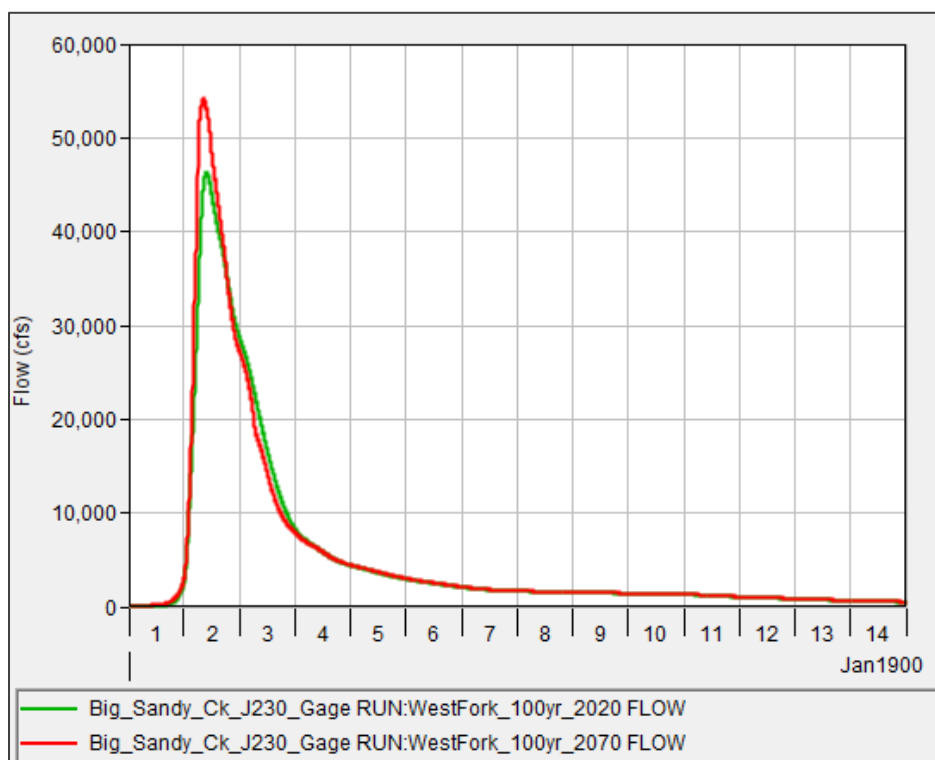


Figure 6-2 2070 Discharge Increase from 2020 – Big Sandy Ck J230 Gage near Bridgeport, TX

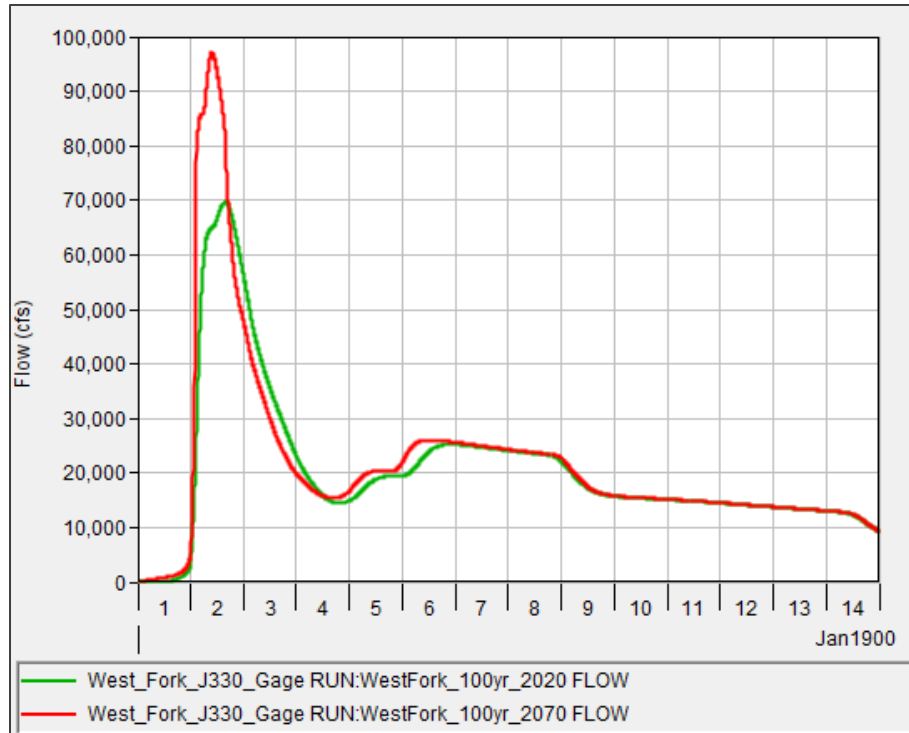


Figure 6-2 2070 Discharge Increase from 2020 – West Fork J330 Gage near Boyd, TX

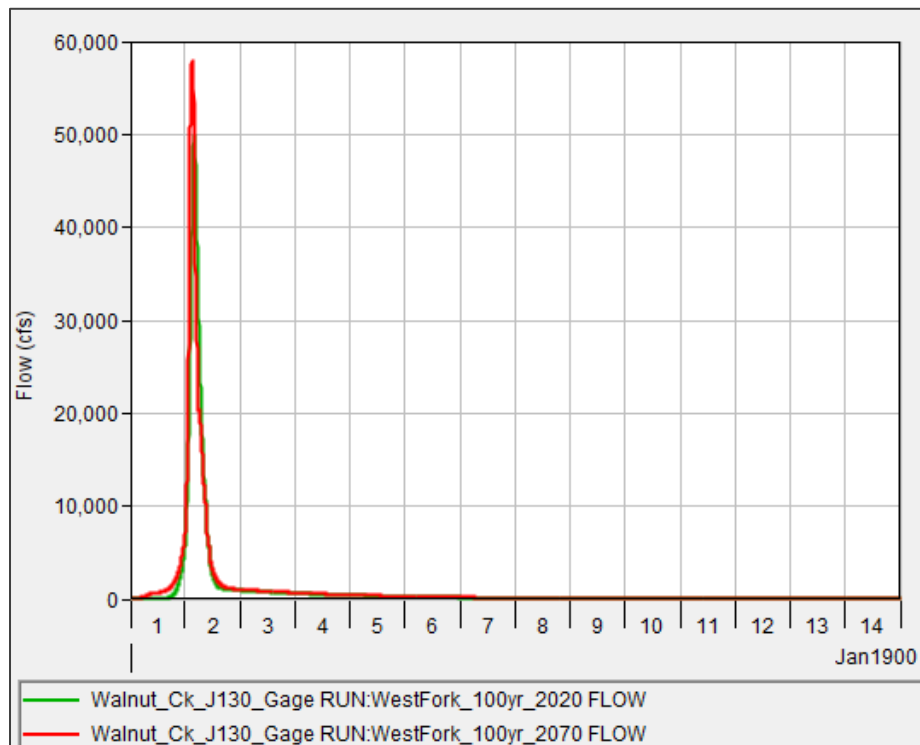


Figure 6-2 2070 Discharge Increase from 2020 – Walnut Ck J130 Gage at Reno, TX

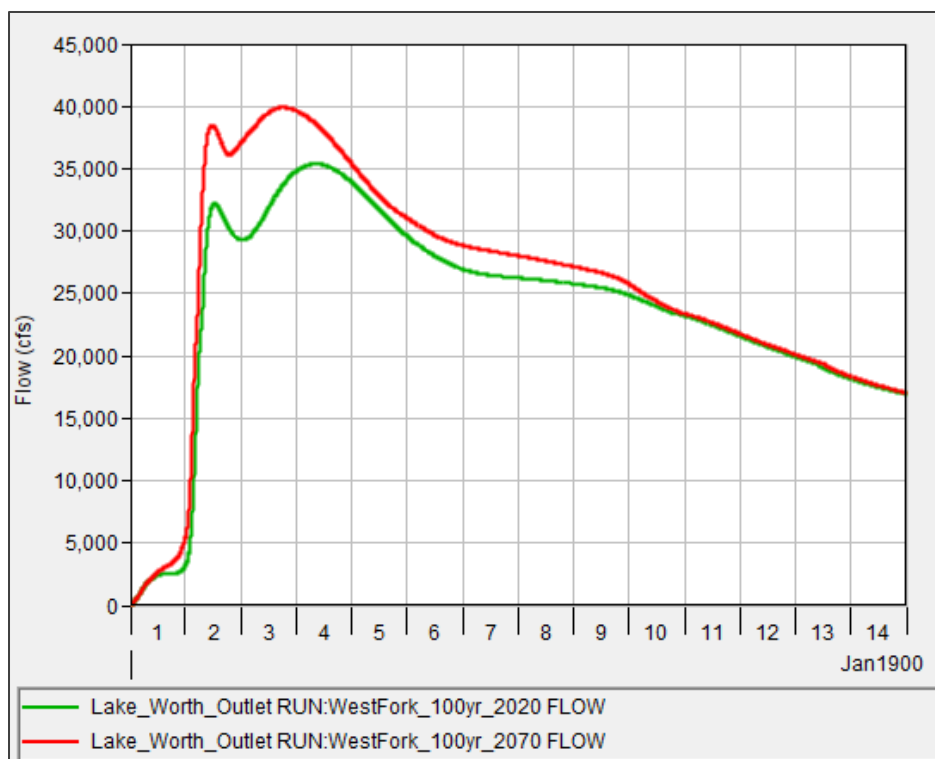


Figure 6-2 2070 Discharge Increase from 2020 – Lake Worth Outlet

Table 6-3 2070 Discharge Percent Increase from 2020 Conditions

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_S010	2%	0%	0%	0%	0%
West_Fork_R010	4%	1%	1%	0%	0%
West_Fork_S020	2%	1%	0%	0%	0%
West_Fork_abv_BrushyCk	2%	1%	0%	0%	0%
West_Fork_S030	2%	1%	0%	0%	0%
West_Fork_J010	2%	1%	0%	0%	0%
West_Fork_R020	3%	1%	0%	0%	0%
West_Fork_S040	2%	0%	0%	0%	0%
West_Fork_J020	3%	1%	0%	0%	0%
West_Fork_R030	4%	1%	1%	0%	0%
West_Fork_S050	2%	0%	0%	0%	0%
West_Fork_abv_CameronCk	4%	1%	1%	0%	0%
West_Fork_S060	2%	1%	0%	0%	0%
West_Fork_J030	2%	1%	1%	0%	0%
West_Fork_R040	4%	1%	1%	0%	0%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_S070	2%	0%	0%	0%	0%
West_Fork_J040	3%	1%	1%	0%	0%
West_Fork_R050	4%	1%	1%	0%	0%
West_Fork_S080	0%	0%	0%	0%	0%
West_Fork_abv_TurkeyCk	4%	1%	1%	0%	0%
West_Fork_S090	2%	0%	0%	0%	0%
West_Fork_J050	4%	1%	1%	0%	0%
West_Fork_R060	4%	1%	1%	0%	0%
West_Fork_S100	2%	0%	0%	0%	0%
West_Fork_J060	4%	1%	1%	0%	0%
West_Fork_R070	4%	1%	1%	1%	0%
West_Fork_S120	6%	3%	1%	1%	1%
West_Fork_S110	2%	0%	0%	0%	0%
WestFork_abv_Big_Cleveland	4%	1%	1%	1%	0%
Big_Cleveland_S010	7%	6%	1%	1%	0%
Big_Cleveland_R010	8%	6%	1%	1%	0%
Big_Cleveland_S020	15%	8%	4%	3%	3%
Big_Cleveland_abv_WestFork	12%	7%	1%	1%	0%
West_Fork_J070	8%	4%	1%	1%	0%
West_Fork_R080	7%	2%	1%	1%	0%
West_Fork_S130	1%	0%	0%	0%	0%
West_Fork_J080_Gage	8%	2%	1%	1%	0%
West_Fork_R090	4%	2%	1%	1%	0%
WestFork_abv_Lost_Ck	4%	2%	1%	1%	0%
Lost_Ck_S010	23%	8%	5%	5%	4%
Lost_Creek_Reservoir	40%	18%	8%	6%	4%
Lost_Ck_R010	39%	18%	20%	14%	9%
Lost_Ck_S020	36%	2%	1%	1%	1%
Lost_Ck_abv_WestFork	35%	2%	1%	1%	4%
West_Fork_+_Lost_Ck	11%	2%	1%	0%	0%
West_Fork_R100	6%	2%	1%	0%	0%
West_Fork_S140	40%	1%	0%	0%	0%
West_Fork_abv_CarrollCk	6%	2%	1%	0%	0%
West_Fork_S150	13%	0%	0%	0%	0%
West_Fork_J090	6%	1%	0%	0%	0%
West_Fork_R110	6%	2%	1%	0%	0%
West_Fork_S160	91%	6%	4%	4%	3%
WestFork_abv_Beans_Ck	7%	2%	1%	0%	0%
Beans_Ck_S010	15%	1%	1%	1%	1%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Beans_Ck_R010	17%	1%	1%	1%	1%
Beans_Ck_S020	64%	3%	2%	2%	2%
Beans_Ck_abv_WestFork	31%	1%	1%	1%	1%
West_Fork_+_Beans_Ck	7%	4%	2%	0%	0%
Big_Ck_S010	57%	1%	0%	0%	0%
Big_Ck_J010	57%	1%	0%	0%	0%
Big_Ck_R010	58%	1%	6%	2%	-1%
Big_Ck_S021	103%	5%	4%	3%	3%
Big_Ck_J030_Abv	64%	1%	6%	2%	-1%
Big_Ck_S022	18%	0%	0%	0%	0%
Big_Ck_J020	18%	0%	0%	0%	0%
Big_Ck_R020	23%	6%	8%	7%	4%
Big_Ck_S023	85%	7%	6%	6%	5%
Big_Ck_J030_blw	60%	1%	8%	3%	-2%
Big_Ck_R030	67%	1%	11%	3%	-2%
Big_Ck_S024	171%	25%	21%	20%	18%
Big_Ck_J040	131%	0%	12%	2%	-3%
Big_Ck_S031	219%	9%	7%	6%	6%
Big_Ck_J050	219%	9%	7%	6%	6%
Big_Ck_R040	396%	18%	21%	21%	17%
Big_Ck_S032	225%	8%	6%	5%	5%
Big_Ck_J100_abv	280%	13%	14%	14%	14%
Big_Ck_S033	208%	8%	6%	6%	5%
Big_Ck_J060	208%	8%	6%	6%	5%
Big_Ck_S034	317%	16%	14%	13%	12%
Big_Ck_J070	317%	16%	14%	13%	12%
Big_Ck_J080	247%	10%	8%	7%	6%
Big_Ck_R050	274%	11%	8%	9%	8%
Big_Ck_S035	352%	18%	15%	14%	13%
Big_Ck_J090	303%	12%	9%	10%	10%
Big_Ck_R060	313%	11%	7%	9%	9%
Big_Ck_S036	263%	10%	9%	8%	8%
Big_Ck_J100_blw	292%	11%	9%	9%	9%
Big_Ck_R070	938%	23%	24%	15%	8%
Big_Ck_S037	188%	16%	13%	12%	11%
Big_Ck_J110	247%	19%	22%	16%	7%
Big_Ck_J120	180%	2%	18%	14%	5%
Big_Ck_R080	180%	2%	18%	14%	5%
Big_Ck_abv_Bridgeport	180%	2%	18%	14%	5%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Boons_Ck_S010	1064%	1%	1%	0%	0%
Boons_Ck_J010	1064%	1%	1%	0%	0%
Boons_Ck_R010	1304%	2%	4%	1%	-1%
Boons_Ck_S020	428%	22%	19%	18%	17%
Boons_Ck_J020	428%	22%	19%	18%	17%
Boons_Ck_S030	1486%	20%	17%	16%	15%
Boons_Ck_J030_abv	721%	-1%	2%	-1%	-3%
Boons_Ck_S040	192%	0%	0%	0%	0%
Boons_Ck_J030_blw	619%	-1%	0%	2%	-2%
Boons_Ck_R020	960%	3%	12%	6%	1%
Boons_Ck_S050	1269%	25%	20%	18%	17%
Boons_Ck_J040	1202%	0%	10%	4%	-2%
Boons_Ck_R030	1490%	4%	15%	8%	0%
Boons_Ck_S060	1501%	27%	22%	20%	19%
Boons_Ck_J060_abv	1595%	4%	16%	8%	0%
Boons_Ck_S070	194%	1%	1%	1%	1%
Boons_Ck_J050	194%	1%	1%	1%	1%
Boons_Ck_R040	207%	13%	13%	12%	9%
Boons_Ck_S080	1357%	12%	9%	9%	8%
Boons_Ck_J060_blw	1416%	14%	18%	10%	-1%
Boons_Ck_R050	2091%	5%	18%	7%	0%
Boons_Ck_S090	645%	31%	26%	24%	22%
Boons_Ck_J070_abv_Willow_Ck	742%	5%	19%	7%	0%
Willow_Ck_S010	94%	1%	0%	0%	0%
Willow_Ck_J010	94%	1%	0%	0%	0%
Willow_Ck_R010	279%	19%	16%	12%	6%
Willow_Ck_S020	239%	10%	9%	8%	8%
Willow_Ck_J020_abv	224%	11%	10%	10%	8%
Willow_Ck_S030	375%	18%	15%	14%	13%
Willow_Ck_J020_blw	310%	14%	13%	12%	10%
Willow_Ck_R020	500%	14%	16%	10%	4%
Willow_Ck_S040	305%	13%	11%	11%	10%
Willow_Ck_J030_abv	381%	15%	11%	10%	11%
Willow_Ck_S050	238%	10%	8%	7%	6%
Willow_Ck_J030_blw	337%	11%	10%	10%	6%
Willow_Ck_R030	342%	10%	15%	10%	6%
Willow_Ck_S060	244%	9%	8%	8%	8%
Willow_Ck_J040_abv	343%	10%	15%	10%	6%
Willow_Ck_S070	281%	11%	9%	9%	8%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Willow_Ck_J040_blw	338%	9%	16%	10%	6%
Willow_Ck_R040	381%	11%	16%	9%	6%
Willow_Ck_S080	358%	15%	12%	11%	10%
Willow_Ck_J050	379%	10%	14%	11%	6%
Willow_Ck_R050	393%	11%	12%	7%	5%
Willow_Ck_S090	277%	13%	10%	9%	8%
Boons_Ck_J070_blw_Willow_Ck	455%	15%	11%	13%	7%
Boons_Ck_R060	1200%	16%	15%	13%	7%
Coal_Bed_Br_S010	363%	16%	13%	12%	11%
Coal_Bed_Br_R010	843%	17%	16%	12%	8%
Boons_Ck_S100	105%	18%	16%	16%	15%
Boons_Ck_J080	518%	17%	15%	11%	7%
Jasper_Ck_S010	0%	0%	0%	0%	0%
Jasper_Ck_R010	0%	2%	7%	5%	-1%
Jasper_Ck_S020	406%	32%	27%	25%	24%
Jasper_Ck_abv_Bridgeport	396%	15%	7%	4%	-2%
Bridgeport_S002	35%	19%	17%	16%	16%
Bridgeport_S001	45%	8%	7%	6%	5%
Bridgeport_Inflow	80%	8%	6%	6%	5%
Bridgeport_Reservoir	14%	1%	1%	1%	1%
WHA_Bridgeport_Outflow	109%	0%	-3%	1%	0%
West_Fork_S162	276%	25%	21%	19%	18%
West_Fork_J100	276%	25%	21%	19%	18%
West_Fork_S161	317%	21%	17%	16%	15%
West_Fork_R120	112%	-1%	-3%	1%	0%
West_Fork_J110	112%	20%	21%	3%	0%
West_Fork_R130	112%	16%	21%	1%	0%
West_Fork_S163	216%	14%	12%	11%	10%
West_Fork_J120	164%	24%	20%	18%	16%
West_Fork_R140	161%	25%	21%	18%	15%
West_Fork_S164	327%	26%	23%	23%	21%
West_Fork_J130	175%	26%	22%	22%	14%
West_Fork_R150	114%	38%	41%	33%	2%
West_Fork_S165	76%	19%	17%	16%	15%
West_Fork_J140	144%	32%	38%	42%	16%
West_Fork_R160	115%	1%	26%	5%	0%
West_Fork_S166	229%	19%	16%	14%	13%
West_Fork_abv_Dry_Ck	120%	18%	15%	15%	1%
Dry_Ck_S010	228%	15%	12%	11%	11%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Dry_Ck_J010	228%	15%	12%	11%	11%
Dry_Ck_R010	339%	17%	13%	10%	9%
Dry_Ck_S020	112%	20%	19%	19%	18%
Dry_Ck_J020_abv	331%	18%	14%	10%	9%
Dry_Ck_S030	141%	2%	1%	1%	1%
Dry_Ck_J020_blw	330%	14%	10%	7%	6%
Dry_Ck_R020	273%	24%	53%	27%	11%
Dry_Ck_S040	307%	21%	19%	19%	18%
Dry_Ck_J030	290%	25%	52%	27%	21%
Dry_Ck_R030	241%	22%	46%	28%	12%
Dry_Ck_S050	133%	1%	0%	0%	0%
Dry_Ck_J040_abv	229%	22%	46%	28%	12%
Dry_Ck_S060	374%	5%	4%	3%	3%
Dry_Ck_J040_blw	266%	13%	56%	35%	14%
Dry_Ck_R040	235%	18%	47%	29%	15%
Dry_Ck_S070	48%	18%	17%	17%	16%
Dry_Ck_J050	48%	18%	17%	17%	16%
Dry_Ck_R050	39%	25%	20%	17%	10%
Dry_Ck_S080	17%	-1%	-1%	-1%	-1%
Dry_Ck_J060_abv	51%	39%	38%	35%	28%
Dry_Ck_J060_blw	169%	12%	38%	24%	14%
Dry_Ck_R060	193%	17%	31%	21%	13%
Dry_Ck_S090	71%	1%	0%	0%	0%
Dry_Ck_J070	168%	8%	16%	23%	19%
Dry_Ck_R070	157%	9%	21%	24%	14%
Dry_Ck_S100	46%	0%	0%	0%	0%
Dry_Ck_J080	46%	0%	0%	0%	0%
Dry_Ck_R080	47%	1%	1%	0%	-1%
Dry_Ck_J090	132%	6%	11%	12%	14%
Dry_Ck_R090	149%	14%	27%	21%	13%
Dry_Ck_S110	184%	15%	13%	12%	11%
Dry_Ck_abv_West_Fork	175%	8%	7%	5%	11%
West_Fork_blw_Dry_Ck	174%	15%	12%	15%	15%
West_Fork_R170	128%	33%	19%	21%	15%
West_Fork_J160_abv	128%	33%	19%	21%	15%
West_Fork_S171	469%	12%	10%	10%	9%
West_Fork_J150	469%	12%	10%	10%	9%
West_Fork_R180	476%	45%	35%	20%	7%
West_Fork_S172	759%	28%	25%	23%	22%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_J160_blw	134%	36%	22%	18%	15%
West_Fork_R190	122%	41%	29%	22%	15%
Amon_G_Carter_S030	21%	8%	5%	5%	4%
Amon_G_Carter_S010	9%	3%	1%	1%	1%
Amon_G_Carter_S020	4%	1%	0%	0%	0%
Amon_G_Carter_Inflow	14%	4%	2%	2%	2%
Amon_G_Carter_Lake	21%	1%	5%	3%	2%
Big_Sandy_Ck_R010	21%	1%	5%	3%	2%
Big_Sandy_Ck_S010	23%	10%	6%	5%	4%
Big_Sandy_Ck_J010	22%	10%	6%	2%	2%
Big_Sandy_Ck_R020	23%	10%	6%	3%	2%
Big_Sandy_Ck_S011	13%	2%	1%	1%	1%
Big_Sandy_Ck_J030_abv	23%	10%	6%	3%	2%
Big_Sandy_Ck_S012	28%	10%	8%	7%	6%
Big_Sandy_Ck_J020	28%	10%	8%	7%	6%
Big_Sandy_Ck_R030	29%	12%	9%	7%	6%
Big_Sandy_Ck_J030_blw	23%	10%	6%	3%	2%
Big_Sandy_Ck_R040	24%	12%	7%	3%	2%
Big_Sandy_Ck_S013	2%	0%	0%	0%	0%
Big_Sandy_Ck_J040	24%	12%	7%	3%	2%
Big_Sandy_Ck_R050	24%	12%	7%	3%	2%
Big_Sandy_Ck_S014	1%	0%	0%	0%	0%
Big_Sandy_Ck_J050_abv	24%	12%	7%	3%	2%
Big_Sandy_Ck_S015	54%	21%	15%	14%	12%
Big_Sandy_Ck_J050_blw	25%	13%	7%	3%	2%
Big_Sandy_Ck_R060	28%	18%	9%	3%	2%
Big_Sandy_Ck_S016	0%	0%	0%	0%	0%
Big_Sandy_Ck_J060	28%	18%	10%	3%	2%
Big_Sandy_Ck_R070	30%	19%	11%	3%	2%
Big_Sandy_Ck_S017	1%	0%	0%	0%	0%
Big_Sandy_Ck_J070_abv	30%	20%	12%	3%	2%
Pringle_Ck_S010	54%	20%	15%	13%	11%
Pringle_Ck_J010	54%	20%	15%	13%	11%
Pringle_Ck_R010	58%	22%	19%	16%	11%
Pringle_Ck_S020	66%	26%	19%	17%	15%
Pringle_Ck_J030_abv	61%	23%	19%	16%	12%
Pringle_Ck_S030	47%	18%	14%	13%	11%
Pringle_Ck_J020	47%	18%	14%	13%	11%
Pringle_Ck_R020	50%	23%	20%	16%	10%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Pringle_Ck_S040	49%	19%	14%	13%	12%
Pringle_Ck_J030_blw	62%	23%	18%	17%	14%
Pringle_Ck_R030	57%	24%	22%	18%	11%
Pringle_Ck_S050	8%	1%	1%	0%	0%
Pringle_Ck_J040	57%	26%	25%	20%	13%
Pringle_Ck_R040	56%	27%	26%	21%	12%
Pringle_Ck_S060	0%	0%	0%	0%	0%
Pringle_Ck_J050	55%	28%	28%	22%	12%
Big_Sandy_Ck_J070_blw	44%	29%	15%	9%	1%
Big_Sandy_Ck_R080	46%	29%	15%	9%	1%
Big_Sandy_Ck_S018	2%	0%	0%	0%	0%
Big_Sandy_Ck_abv_Brushy_Ck	46%	29%	15%	10%	1%
Brushy_Ck_S010	23%	12%	9%	8%	7%
Brushy_Ck_J010	23%	12%	9%	8%	7%
Brushy_Ck_R010	24%	11%	8%	8%	7%
Brushy_Ck_S021	12%	3%	1%	1%	1%
Brushy_Ck_J020	25%	12%	9%	8%	8%
Brushy_Ck_R020	26%	13%	10%	8%	7%
Brushy_Ck_S022	3%	2%	2%	1%	1%
Brushy_Ck_J030_abv	26%	13%	10%	8%	7%
Brushy_Ck_S023	4%	1%	0%	0%	0%
Brushy_Ck_J030_blw	26%	14%	10%	9%	7%
Brushy_Ck_R030	26%	14%	12%	9%	7%
Brushy_Ck_S024	0%	0%	0%	0%	0%
Brushy_Ck_J050_abv	26%	15%	12%	10%	7%
Brushy_Ck_S025	6%	1%	0%	0%	0%
Brushy_Ck_J040	6%	1%	0%	0%	0%
Brushy_Ck_R040	6%	1%	1%	0%	0%
Brushy_Ck_J050_blw	26%	15%	12%	10%	7%
Brushy_Ck_R050	26%	15%	12%	10%	7%
Brushy_Ck_S026	1%	0%	0%	0%	0%
Brusy_Ck_J060_abv_GrapevineC	26%	15%	12%	10%	7%
Grapevine_Ck_S010	0%	0%	0%	0%	0%
Grapevine_Ck_J010	0%	0%	0%	0%	0%
Grapevine_Ck_R010	2%	2%	2%	1%	1%
Grapevine_Ck_S020	0%	0%	0%	0%	0%
Grapevine_Ck_J030_abv	2%	3%	2%	2%	1%
Grapevine_Ck_S030	9%	4%	3%	3%	2%
Grapevine_Ck_J020	9%	4%	3%	3%	2%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Grapevine_Ck_R020	11%	6%	4%	3%	3%
Grapevine_Ck_J030_blw	3%	2%	2%	2%	1%
Grapevine_Ck_R030	3%	3%	2%	2%	1%
Grapevine_Ck_S040	0%	0%	0%	0%	0%
Grapevine_Ck_J040	3%	3%	3%	2%	1%
Brushy_Ck_J060_blw_GrapevineC	26%	15%	13%	11%	7%
Brushy_Ck_R060	26%	15%	14%	11%	7%
Brushy_Ck_S027	4%	2%	1%	1%	1%
Brushy_Ck_J070	26%	15%	13%	11%	7%
Brushy_Ck_R070	26%	16%	14%	11%	7%
Brushy_Ck_S028	6%	1%	1%	1%	0%
Brushy_Ck_J080	26%	16%	14%	11%	7%
Brushy_Ck_R080	27%	16%	15%	12%	8%
Brushy_Ck_S029	9%	6%	5%	4%	4%
Brushy_Ck_J090_abv_Dry_Hollow	27%	16%	15%	12%	8%
Dry_Hollow_Br_S010	4%	1%	0%	0%	0%
Dry_Hollow_Br_J010	4%	1%	0%	0%	0%
Dry_Hollow_Br_S020	6%	1%	0%	0%	0%
Dry_Hollow_Br_J020	6%	1%	0%	0%	0%
Dry_Hollow_Br_R010	10%	4%	2%	1%	1%
Dry_Hollow_Br_S030	4%	1%	0%	0%	0%
Dry_Hollow_Br_J030_abv	10%	4%	2%	2%	1%
Dry_Hollow_Br_J030_blw	6%	2%	1%	1%	0%
Dry_Hollow_Br_R020	6%	2%	1%	1%	0%
Dry_Hollow_Br_S040	7%	2%	1%	0%	0%
Dry_Hollow_Br_J040	7%	2%	1%	0%	0%
Dry_Hollow_Br_R030	8%	3%	1%	1%	0%
Dry_Hollow_Br_S050	0%	0%	0%	0%	0%
Dry_Hollow_Br_J050	7%	3%	1%	1%	0%
Dry_Hollow_Br_J060	7%	2%	1%	1%	0%
Dry_Hollow_Br_R040	8%	4%	2%	2%	0%
Dry_Hollow_Br_S060	1%	0%	0%	0%	0%
Dry_Hollow_Br_J070	6%	3%	1%	1%	0%
Dry_Hollow_Br_R050	6%	4%	5%	3%	0%
Dry_Hollow_Br_S070	16%	9%	6%	6%	6%
Dry_Hollow_Br_J080	6%	4%	5%	4%	-1%
Dry_Hollow_Br_R060	6%	4%	8%	4%	-1%
Dry_Hollow_Br_S080	2%	0%	0%	0%	0%
Dry_Hollow_Br_J090_abv	6%	4%	8%	4%	-1%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Brusy_Ck_J090_blw_Dry_Hollow	11%	9%	10%	13%	15%
Big_Sandy_Ck_blw_Brushy_Ck	31%	21%	16%	12%	7%
Big_Sandy_Ck_R090	32%	21%	16%	12%	7%
Big_Sandy_Ck_S021	5%	1%	1%	1%	0%
Big_Sandy_Ck_J080_abv	32%	21%	16%	12%	7%
Chicken_Ck_S010	6%	1%	0%	0%	0%
Chicken_Ck_J010	6%	1%	0%	0%	0%
Chicken_Ck_S020	2%	0%	0%	0%	0%
Chicken_Ck_J020	2%	0%	0%	0%	0%
Chicken_Ck_R010	4%	2%	1%	0%	0%
Chicken_Ck_J030	5%	1%	0%	0%	0%
Chicken_Ck_R020	11%	9%	7%	6%	4%
Chicken_Ck_S030	2%	1%	0%	0%	0%
Chicken_Ck_J040	7%	5%	4%	4%	2%
Big_Sandy_Ck_J080_blw	31%	21%	16%	13%	10%
Big_Sandy_Ck_R100	32%	21%	16%	13%	10%
Big_Sandy_Ck_S022	0%	0%	0%	0%	0%
Big_Sandy_Ck_J090_abv	32%	21%	16%	13%	10%
Big_Sandy_Ck_Trib_S010	13%	2%	1%	0%	0%
Big_Sandy_Ck_Trib_J010	13%	2%	1%	0%	0%
Big_Sandy_Ck_Trib_R010	17%	4%	2%	2%	0%
Big_Sandy_Ck_Trib_S020	36%	21%	18%	17%	16%
Big_Sandy_Ck_Trib_J020	16%	4%	1%	1%	-1%
Big_Sandy_Ck_Trib_R020	21%	12%	7%	6%	2%
Big_Sandy_Ck_Trib_S030	3%	0%	0%	0%	0%
Big_Sandy_Ck_Trib_J030	22%	14%	10%	8%	5%
Big_Sandy_Ck_J090_blw	32%	20%	16%	13%	11%
Big_Sandy_Ck_R110	32%	20%	17%	13%	11%
Big_Sandy_Ck_S023	1%	0%	0%	0%	0%
Big_Sandy_Ck_J120_abv	32%	20%	17%	14%	11%
Big_Sandy_Ck_S024	4%	1%	0%	0%	0%
Big_Sandy_Ck_J100	4%	1%	0%	0%	0%
Big_Sandy_Ck_R115	13%	12%	9%	7%	3%
Big_Sandy_Ck_S025	3%	0%	0%	0%	0%
Big_Sandy_Ck_J110	5%	5%	9%	8%	5%
Big_Sandy_Ck_J120_blw	30%	18%	17%	14%	12%
Big_Sandy_Ck_R120	30%	18%	17%	14%	12%
Mudhole_Br_S010	0%	0%	0%	0%	0%
Mudhole_Br_J010	0%	0%	0%	0%	0%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Mudhole_Br_R010	2%	5%	6%	5%	1%
Mudhole_Br_S020	1%	0%	0%	0%	0%
Mudhole_Br_J020	2%	5%	6%	5%	2%
Big_Sandy_Ck_J130	29%	17%	17%	17%	13%
Big_Sandy_Ck_R130	29%	17%	18%	16%	13%
Big_Sandy_Ck_S026	13%	3%	1%	1%	0%
Big_Sandy_Ck_J160_abv	27%	18%	17%	16%	13%
Big_Sandy_Ck_S027	48%	14%	10%	9%	8%
Big_Sandy_Ck_J140	48%	14%	10%	9%	8%
Big_Sandy_Ck_R140	48%	19%	13%	11%	9%
Big_Sandy_Ck_S028	26%	6%	4%	3%	2%
Big_Sandy_Ck_J150	35%	10%	6%	5%	4%
Big_Sandy_Ck_J160_blw	27%	18%	18%	17%	13%
Big_Sandy_Ck_R150	27%	18%	18%	17%	13%
Briar_Br_S010	5%	4%	3%	3%	3%
Briar_Br_J010	5%	4%	3%	3%	3%
Briar_Br_S020	4%	3%	3%	3%	3%
Briar_Br_J020	4%	3%	3%	3%	3%
Briar_Br_J030	5%	3%	3%	3%	3%
Briar_Br_R010	5%	4%	4%	3%	3%
Briar_Br_S030	4%	3%	3%	3%	3%
Briar_Br_J040	5%	4%	4%	4%	3%
Briar_Br_R020	5%	4%	4%	4%	3%
Briar_Br_S040	5%	3%	3%	2%	2%
Briar_Br_J050_abv	6%	4%	4%	4%	3%
Walkers_Br_S010	5%	3%	3%	3%	3%
Walkers_Br_J010	5%	3%	3%	3%	3%
Walkers_Br_S020	7%	4%	3%	3%	3%
Walkers_Br_J020	7%	4%	3%	3%	3%
Walkers_Br_R010	8%	5%	4%	4%	3%
Walkers_Br_J030	6%	3%	2%	2%	2%
Walkers_Br_R020	7%	4%	3%	3%	2%
Walkers_Br_S030	4%	3%	3%	3%	2%
Walkers_Br_J040	7%	5%	4%	4%	3%
Walkers_Br_R030	7%	5%	4%	4%	3%
Walkers_Br_S040	3%	3%	3%	2%	2%
Walkers_Br_J050	7%	5%	4%	5%	3%
Briar_Br_J050_blw	6%	4%	4%	4%	3%
Briar_Br_R030	5%	6%	9%	10%	1%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Briar_Br_S050	0%	0%	0%	0%	0%
Briar_Br_J060	5%	6%	9%	10%	1%
Briar_Br_R040	5%	6%	11%	9%	2%
Briar_Br_S060	2%	1%	0%	0%	0%
Briar_Br_J070	5%	7%	11%	8%	2%
Big_Sandy_Ck_J170	21%	17%	16%	15%	11%
Big_Sandy_Ck_R160	21%	18%	17%	15%	11%
Big_Sandy_Ck_S031	1%	0%	0%	0%	0%
Big_Sandy_Ck_J180	20%	18%	17%	15%	11%
Big_Sandy_Ck_R170	20%	18%	17%	15%	11%
Big_Sandy_Ck_S032	3%	1%	0%	0%	0%
Big_Sandy_Ck_J190	3%	1%	0%	0%	0%
Big_Sandy_Ck_R180	4%	2%	1%	1%	0%
Big_Sandy_Ck_J200	4%	2%	1%	1%	0%
Big_Sandy_Ck_J210_abv	20%	18%	17%	15%	11%
Big_Sandy_Ck_S033	3%	1%	0%	0%	0%
Big_Sandy_Ck_J210_blw	20%	18%	17%	15%	11%
Big_Sandy_Ck_R190	20%	18%	18%	15%	11%
Big_Sandy_Ck_S034	2%	0%	0%	0%	0%
Big_Sandy_Ck_J220_abv	20%	19%	18%	15%	11%
Watson_Br_S010	0%	0%	0%	0%	0%
Watson_Br_J010	0%	0%	0%	0%	0%
Watson_Br_R010	0%	0%	0%	0%	0%
Watson_Br_S020	8%	2%	1%	1%	0%
Watson_Br_J020	8%	2%	1%	1%	0%
Watson_Br_R020	9%	2%	1%	1%	0%
Watson_Br_J030	4%	1%	0%	0%	0%
Watson_Br_R030	7%	4%	3%	2%	0%
Watson_Br_S030	3%	0%	0%	0%	0%
Watson_Br_J040	7%	4%	3%	2%	0%
Watson_Br_R040	7%	5%	8%	3%	0%
Watson_Br_S040	0%	0%	0%	0%	0%
Watson_Br_J050_abv	7%	5%	8%	3%	0%
Twin_Pond_CK_S010	45%	19%	14%	13%	11%
Twin_Pond_CK_J010	45%	19%	14%	13%	11%
Twin_Pond_Ck_R010	51%	24%	17%	15%	11%
Twin_Pond_CK_S020	4%	1%	1%	0%	0%
Twin_Pond_CK_J020	34%	19%	13%	12%	9%
Watson_Br_J050_blw	18%	9%	10%	6%	2%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Watson_Br_R050	18%	10%	11%	6%	2%
Watson_Br_S050	5%	1%	0%	0%	0%
Watson_Br_J060	18%	10%	11%	6%	2%
Big_Sandy_Ck_J220_blw	15%	20%	18%	15%	9%
Big_Sandy_Ck_R200	16%	21%	20%	17%	9%
Big_Sandy_Ck_S035	2%	0%	0%	0%	0%
Big_Sandy_Ck_J230_Gage	16%	21%	20%	17%	9%
Big_Sandy_Ck_R210	17%	21%	21%	17%	9%
Big_Sandy_Ck_S041	441%	19%	16%	15%	14%
Big_Sandy_Ck_J240_abv	17%	21%	21%	17%	9%
Waggoner_Br_S010	251%	31%	28%	27%	25%
Waggoner_Br_J010	251%	31%	28%	27%	25%
Waggoner_Br_R010	236%	20%	21%	17%	12%
Waggoner_Br_S020	274%	28%	25%	24%	22%
Waggoner_Br_J020	259%	24%	23%	23%	19%
Waggoner_Br_R020	163%	18%	26%	14%	7%
Waggoner_Br_S030	407%	16%	14%	14%	13%
Waggoner_Br_J030_abv	165%	17%	21%	21%	7%
Rosebud_Br_S010	351%	14%	13%	13%	12%
Rosebud_Br_J010	351%	14%	13%	13%	12%
Rosebud_Br_R010	279%	17%	16%	15%	13%
Rosebud_Br_S020	181%	2%	2%	2%	2%
Rosebud_Br_J020	204%	12%	12%	12%	11%
Rosebud_Br_R020	186%	20%	25%	21%	13%
Rosebud_Br_S030	658%	15%	14%	14%	13%
Rosebud_Br_J040	252%	14%	21%	17%	10%
Waggoner_Br_J030_blw	180%	17%	17%	20%	17%
Waggoner_Br_R030	170%	18%	24%	15%	7%
Waggoner_Br_S040	648%	25%	22%	21%	19%
Waggoner_Br_J040	187%	19%	23%	16%	6%
Big_Sandy_Ck_J240_blw	18%	23%	23%	18%	9%
Big_Sandy_Ck_R220	18%	23%	23%	18%	9%
Big_Sandy_Ck_S042	597%	19%	17%	16%	15%
Big_Sandy_Ck_J250	18%	23%	23%	18%	9%
Big_Sandy_Ck_R230	19%	23%	24%	18%	9%
Big_Sandy_Ck_S043	898%	24%	20%	19%	18%
Big_Sandy_Ck_J260	19%	23%	24%	18%	9%
West Fork_abv_Big_Sandy_Ck	122%	41%	29%	22%	15%
West Fork_blw_Big_Sandy_Ck	62%	22%	20%	22%	9%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_R200	60%	22%	20%	22%	9%
West_Fork_S181	379%	15%	13%	13%	12%
West_Fork_J170	61%	22%	20%	22%	9%
West_Fork_R210	52%	24%	23%	21%	9%
West_Fork_S182	750%	16%	14%	13%	12%
West_Fork_J190_abv	52%	24%	23%	21%	9%
West_Fork_S183	468%	12%	10%	10%	9%
West_Fork_J180	468%	12%	10%	10%	9%
West_Fork_R220	715%	24%	22%	18%	11%
West_Fork_S184	483%	22%	19%	17%	16%
West_Fork_J190_blw	53%	24%	23%	22%	9%
West_Fork_R230	54%	24%	23%	22%	9%
Martin_Br_S010	125%	25%	23%	22%	20%
Martin_Br_J010	125%	25%	23%	22%	20%
Martin_Br_R010	118%	20%	27%	16%	10%
Martin_Br_S020	639%	16%	14%	13%	12%
Martin_Br_J020	255%	18%	16%	16%	16%
Martin_Br_R020	176%	21%	21%	14%	9%
Martin_Br_S030	474%	12%	10%	10%	9%
Martin_Br_J030	331%	17%	17%	15%	10%
Martin_Br_R030	253%	19%	22%	15%	8%
Martin_Br_S040	488%	6%	5%	5%	4%
Martin_Br_J060_abv	255%	19%	22%	15%	9%
Martin_Br_S050	313%	20%	18%	17%	16%
Martin_Br_J040	313%	20%	18%	17%	16%
Martin_Br_R040	259%	19%	27%	16%	10%
Martin_Br_S060	604%	15%	13%	12%	11%
Martin_Br_J050	393%	17%	20%	14%	10%
Martin_Br_J060_blw	346%	18%	21%	15%	9%
West_Fork_S185	722%	15%	13%	13%	12%
West_Fork_J200	56%	24%	24%	24%	10%
West_Fork_R240	59%	25%	26%	24%	11%
West_Fork_S191	558%	26%	22%	21%	19%
West_Fork_J210	60%	25%	26%	24%	11%
West_Fork_R250	60%	25%	31%	25%	14%
West_Fork_S192	450%	16%	14%	13%	12%
West_Fork_J220_abv_Salt_Ck	61%	25%	31%	25%	14%
Garrett_Ck_S001	1428%	18%	11%	10%	10%
Garrett_Ck_J010	1428%	18%	11%	10%	10%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Garrett_Ck_R010	1715%	18%	13%	7%	3%
Garrett_Ck_S002	3418%	21%	13%	13%	12%
Garrett_Ck_J030_abv	2432%	18%	11%	11%	8%
Garrett_Ck_S003	2706%	18%	10%	10%	9%
Garrett_Ck_J020	2706%	18%	10%	10%	9%
Garrett_Ck_R020	2545%	23%	12%	6%	5%
Garrett_Ck_S004	1608%	21%	15%	15%	14%
Garrett_Ck_J030_blw	2220%	20%	13%	9%	3%
Garrett_Ck_R030	2530%	26%	20%	10%	4%
Garrett_Ck_S005	1451%	24%	13%	12%	11%
Garrett_Ck_J040	1673%	24%	13%	11%	11%
Garrett_Ck_R040	1637%	26%	19%	13%	5%
Garrett_Ck_S006	1356%	20%	14%	14%	13%
Garrett_Ck_J050	1356%	20%	14%	14%	13%
Garrett_Ck_R050	1263%	17%	18%	13%	8%
Garrett_Ck_J060_blw	1585%	29%	20%	14%	6%
Garrett_Ck_R060	1760%	29%	22%	15%	5%
Garrett_Ck_S007	1432%	26%	15%	15%	14%
Garrett_Ck_J070	1693%	26%	14%	19%	16%
Garrett_Ck_R070	1919%	31%	30%	14%	7%
Garrett_Ck_S008	469%	31%	19%	18%	17%
Garrett_Ck_J080_abv	777%	25%	13%	14%	13%
Rush_Ck_S010	2867%	25%	14%	13%	12%
Rush_Ck_J010	2867%	25%	14%	13%	12%
Rush_Ck_R010	2597%	29%	20%	14%	6%
Rush_Ck_S020	1682%	25%	17%	17%	16%
Rush_Ck_J020	2237%	31%	20%	15%	6%
Rush_Ck_R020	2554%	29%	27%	15%	7%
Rush_Ck_S050	1776%	19%	14%	13%	13%
Rush_Ck_J040_abv	2522%	30%	28%	15%	7%
Rush_Ck_S030	1577%	22%	12%	12%	11%
Rush_Ck_J030	1577%	22%	12%	12%	11%
Rush_Ck_R030	1762%	24%	16%	13%	7%
Rush_Ck_S040	867%	14%	9%	9%	9%
Rush_Ck_J040_blw	1719%	28%	16%	16%	13%
Rush_Ck_R040	1753%	30%	24%	17%	10%
Rush_Ck_S060	1725%	19%	12%	12%	11%
Rush_Ck_J050	1765%	24%	24%	18%	16%
Rush_Ck_R050	1816%	30%	28%	18%	9%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Rush_Ck_S070	1433%	16%	8%	8%	7%
Garrett_Ck_J080_blw	1121%	26%	25%	21%	7%
Garrett_Ck_R080	1115%	25%	25%	20%	7%
Garrett_Ck_S009	1448%	25%	17%	17%	16%
Garrett_Ck_J090	1100%	25%	24%	20%	9%
Garrett_Ck_R090	1012%	29%	27%	19%	7%
Garrett_Ck_S031	370%	14%	12%	11%	10%
Garrett_Ck_J100	562%	21%	23%	26%	17%
Garrett_Ck_R100	549%	29%	30%	21%	8%
Garrett_Ck_S032	493%	23%	21%	20%	19%
Garrett_Ck_J110	530%	22%	31%	21%	8%
Garrett_Ck_R110	2888%	31%	30%	23%	8%
Garrett_Ck_S033	350%	20%	17%	16%	15%
Garrett_Ck_J120	905%	31%	32%	24%	8%
Garrett_Ck_R120	3485%	40%	28%	21%	11%
Salt_Ck_S001	1158%	32%	3%	2%	2%
Salt_Ck_J010	1158%	32%	3%	2%	2%
Salt_Ck_R010	1374%	47%	11%	5%	0%
Salt_Ck_S002	879%	21%	6%	5%	5%
Salt_Ck_J020	1341%	47%	11%	5%	0%
Salt_Ck_S003	716%	64%	19%	18%	17%
Salt_Ck_J030	716%	64%	19%	18%	17%
Salt_Ck_R020	1119%	71%	20%	21%	17%
Salt_Ck_S004	2615%	28%	4%	4%	3%
Salt_Ck_J040	1124%	71%	20%	21%	17%
Salt_Ck_J050	1234%	55%	15%	11%	6%
Salt_Ck_R030	1130%	75%	19%	9%	3%
Salt_Ck_S005	1220%	43%	8%	8%	7%
Salt_Ck_J070_abv	1205%	65%	19%	15%	6%
Salt_Ck_S006	593%	46%	12%	12%	11%
Salt_Ck_J060	593%	46%	12%	12%	11%
Salt_Ck_R040	736%	51%	18%	12%	6%
Salt_Ck_S007	1523%	43%	9%	8%	8%
Salt_Ck_J070_blw	955%	69%	21%	15%	4%
Salt_Ck_R050	974%	69%	18%	10%	5%
Salt_Ck_S008	1981%	74%	16%	15%	14%
Salt_Ck_J080_abv	1147%	73%	18%	11%	3%
Salt_Ck_S009	781%	41%	8%	7%	7%
Salt_Ck_J080_blw	1187%	60%	13%	14%	8%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Gonzollas_Ck_S010	935%	32%	6%	5%	5%
Gonzollas_Ck_J010	935%	32%	6%	5%	5%
Gonzollas_Ck_R010	3349%	295%	42%	25%	5%
Gonzollas_Ck_S020	1210%	46%	11%	11%	10%
Gonzollas_Ck_J020	1409%	96%	33%	26%	16%
Gonzollas_Ck_R020	1969%	89%	34%	23%	14%
Gonzollas_Ck_S030	829%	57%	17%	17%	16%
Salt_Ck_J090_blw_GonzollasCK	1373%	66%	18%	17%	10%
Salt_Ck_R060	1298%	91%	26%	18%	7%
Salt_Ck_S011	1169%	32%	20%	19%	18%
Salt_Ck_J100_abv	1173%	55%	25%	16%	6%
Pecan_Br_S010	1296%	23%	13%	12%	11%
Pecan_Br_J010	1296%	23%	13%	12%	11%
Salt_Ck_J100_blw_Pecan_Br	1191%	45%	23%	16%	8%
Salt_Ck_R070	1198%	49%	23%	17%	7%
Salt_Ck_S012	1058%	19%	13%	13%	12%
Salt_Ck_J130_abv	1197%	49%	23%	17%	7%
Salt_Ck_S013	2041%	30%	18%	16%	15%
Salt_Ck_J110	2041%	30%	18%	16%	15%
Salt_Ck_R080	2094%	31%	22%	17%	11%
Salt_Ck_S014	1790%	25%	16%	15%	14%
Salt_Ck_J120	2136%	35%	26%	23%	10%
Salt_Ck_J130_blw	1363%	41%	19%	15%	10%
Salt_Ck_R090	1332%	44%	20%	14%	8%
Salt_Ck_S015	1856%	20%	13%	13%	12%
Salt_Ck_J150_abv	1333%	44%	20%	14%	8%
Salt_Ck_S016	530%	14%	10%	10%	10%
Salt_Ck_J140	530%	14%	10%	10%	10%
Salt_Ck_R100	792%	26%	21%	16%	5%
Salt_Ck_S017	1167%	29%	20%	19%	18%
Salt_Ck_J150_blw	1283%	44%	20%	14%	9%
Salt_Ck_R110	1253%	45%	22%	15%	8%
Salt_Ck_S018	1341%	22%	12%	11%	11%
Salt_Ck_J160_abv	1283%	42%	23%	15%	8%
Cottonwood_Ck_S010	1112%	4%	2%	1%	1%
Cottonwood_Ck_J010	1112%	4%	2%	1%	1%
Cottonwood_Ck_R010	1203%	59%	22%	17%	12%
Cottonwood_Ck_S020	1053%	24%	13%	12%	11%
Salt_Ck_J160_blw_Cottonwood	1239%	37%	24%	17%	9%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Salt_Ck_R120	1220%	42%	28%	18%	8%
Salt_Ck_S019	1057%	25%	14%	13%	12%
Salt_Ck_J170	1218%	41%	29%	18%	8%
Salt_Ck_R130	3156%	45%	36%	18%	8%
Salt_Ck_S021	375%	16%	14%	13%	12%
Salt_Ck_J180_abv_Garrett_Ck	1879%	46%	37%	18%	8%
Garrett_Ck_S034	542%	22%	18%	17%	16%
Salt_Ck_J180_blw_Garrett_Ck	1373%	57%	37%	30%	14%
Salt_Ck_R140	3008%	70%	32%	30%	14%
Salt_Ck_S022	553%	14%	11%	10%	9%
Salt_Ck_J190_abv_West_Fork	3011%	71%	35%	30%	14%
West_Fork_J220_blw_Salt_Ck	91%	33%	42%	40%	32%
West_Fork_R260	93%	33%	42%	39%	29%
West_Fork_S201	756%	21%	18%	17%	16%
West_Fork_J230_abv	93%	33%	42%	39%	30%
Lola_Ck_S010	493%	19%	17%	16%	15%
Lola_Ck_J010	493%	19%	17%	16%	15%
Lola_Ck_R010	472%	18%	19%	12%	5%
Lola_Ck_S020	518%	18%	14%	13%	12%
West_Fork_J230_blw	94%	33%	42%	39%	31%
West_Fork_R270	96%	34%	42%	39%	30%
West_Fork_S202	814%	19%	17%	16%	15%
West_Fork_J310_abv	96%	34%	42%	39%	30%
West_Fork_S203	491%	25%	22%	20%	19%
West_Fork_J240	491%	25%	22%	20%	19%
West_Fork_R280	671%	22%	19%	12%	9%
West_Fork_S204	418%	9%	8%	7%	6%
West_Fork_J250	765%	19%	17%	17%	11%
West_Fork_S205	718%	21%	18%	18%	16%
West_Fork_J260	718%	21%	18%	18%	16%
West_Fork_R290	879%	24%	24%	22%	16%
West_Fork_S206	470%	12%	11%	10%	10%
West_Fork_J270	746%	25%	24%	23%	19%
West_Fork_J280	749%	17%	16%	15%	14%
West_Fork_R300	7243%	17%	15%	15%	12%
West_Fork_S207	661%	15%	14%	14%	13%
West_Fork_J290	5758%	17%	15%	15%	12%
West_Fork_R310	5468%	24%	20%	13%	10%
West_Fork_S208	551%	13%	11%	11%	10%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
West_Fork_J300	2711%	25%	20%	13%	10%
West_Fork_J310_blw	98%	34%	42%	40%	33%
West_Fork_R320	98%	34%	42%	40%	32%
Walker_Ck_S010	393%	10%	8%	8%	7%
Walker_Ck_J010	393%	10%	8%	8%	7%
Walker_Ck_R010	379%	12%	15%	13%	5%
Walker_Ck_S020	597%	11%	10%	9%	8%
West_Fork_J320	99%	34%	42%	40%	33%
West_Fork_R330	101%	34%	43%	39%	32%
West_Fork_S209	565%	19%	16%	15%	14%
West_Fork_J330_Gage	101%	34%	43%	39%	32%
West_Fork_R340	101%	34%	43%	39%	31%
West_Fork_S211	757%	56%	24%	22%	20%
West_Fork_abv_Deep_Ck	101%	34%	43%	39%	31%
Deep_Ck_S10	2115%	43%	20%	18%	17%
Deep_Ck_J10	2115%	43%	20%	18%	17%
Deep_Ck_R10	2007%	43%	22%	21%	20%
Deep_Ck_S20	2084%	47%	22%	20%	19%
Deep_Ck_J20	1993%	46%	22%	21%	20%
Deep_Ck_R20	1884%	52%	27%	25%	22%
Deep_Ck_S30	2202%	46%	21%	20%	18%
Deep_Ck_abv_West_Fork	1883%	54%	27%	26%	23%
West_Fork_blw_Deep_Ck	103%	34%	43%	39%	32%
West_Fork_R350	103%	35%	43%	39%	32%
West_Fork_S212	3897%	37%	16%	15%	14%
West_Fork_J340	103%	35%	43%	39%	32%
West_Fork_R360	102%	35%	42%	38%	31%
West_Fork_abv_Blue_Ck	102%	35%	42%	38%	31%
Blue_Ck_S10	1481%	52%	23%	21%	19%
Blue_Ck_J10	1481%	52%	23%	21%	19%
Blue_Ck_R10	1466%	52%	23%	21%	20%
Blue_Ck_S20	616%	55%	27%	26%	24%
Blue_Ck_J20	616%	55%	27%	26%	24%
Blue_Ck_R20	595%	51%	24%	25%	22%
Blue_Ck_S25	1723%	54%	27%	25%	24%
Blue_Ck_J30	753%	51%	24%	23%	21%
Blue_Ck_J40	938%	52%	23%	22%	20%
Blue_Ck_R30	889%	59%	29%	26%	23%
Blue_Ck_S40	2797%	57%	26%	25%	23%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Blue_Ck_J50	985%	59%	30%	27%	23%
Blue_Ck_S30	2182%	55%	25%	23%	22%
Blue_Ck_J60	1157%	57%	29%	26%	23%
Blue_Ck_R40	1166%	58%	29%	26%	23%
Blue_Ck_S50	374%	38%	20%	19%	19%
Blue_Ck_J70	1158%	58%	29%	26%	23%
Blue_Ck_R50	1245%	68%	33%	30%	26%
Blue_Ck_S60	415%	31%	15%	14%	13%
Blue_Ck_abv_West_Fork	1194%	69%	34%	31%	27%
West_Fork_blw_Blue_Ck	104%	36%	42%	38%	31%
West_Fork_R370	104%	36%	42%	38%	31%
West_Fork_S213	596%	51%	25%	24%	22%
West_Fork_J350	104%	36%	42%	38%	31%
West_Fork_R380	104%	37%	41%	37%	29%
West_Fork_S214	451%	49%	24%	22%	21%
West_Fork_J370_abv	104%	37%	41%	37%	29%
West_Fork_S215	598%	23%	9%	9%	8%
West_Fork_J360	598%	23%	9%	9%	8%
West_Fork_J370_blw	104%	37%	41%	37%	29%
West_Fork_R390	105%	38%	41%	37%	29%
Hog_Branch_S10	1097%	15%	5%	5%	4%
Hog_Branch_J10	1097%	15%	5%	5%	4%
Hog_Branch_R10	1071%	16%	8%	8%	7%
Hog_Branch_S20	1294%	24%	9%	9%	8%
Hog_Branch_J20	1231%	22%	9%	8%	8%
Hog_Branch_R20	1204%	28%	14%	13%	12%
Hog_Branch_S30	798%	24%	10%	9%	8%
Hog_Branch_J30	991%	27%	13%	12%	12%
Hog_Branch_R30	852%	29%	14%	13%	12%
Hog_Branch_S40	335%	11%	4%	4%	4%
Hog_Branch_abv_West_Fork	846%	29%	14%	13%	12%
West_Fork_S216	1799%	34%	14%	13%	12%
West_Fork_blw_Hog_Branch	105%	38%	41%	37%	29%
West_Fork_R400	105%	38%	41%	37%	29%
West_Fork_S217	915%	22%	10%	9%	9%
West_Fork_abv_Dry_Fork	105%	38%	41%	37%	29%
Dry_Fork_S10	1071%	30%	20%	19%	18%
Dry_Fork_J10	1071%	30%	20%	19%	18%
Dry_Fork_R10	743%	28%	17%	19%	19%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Dry_Fork_S20	901%	26%	17%	16%	15%
Dry_Fork_abv_West_Fork	807%	28%	18%	17%	17%
West_Fork_blw_Dry_Fork	105%	38%	41%	37%	29%
West_Fork_R410	105%	39%	41%	37%	27%
Eagle_Mountain_S001	707%	45%	25%	22%	20%
West_Fork_abv_Oastes_Branch	105%	39%	41%	37%	27%
Oates_Branch_S10	481%	38%	25%	24%	22%
Oates_Branch_J10	481%	38%	25%	24%	22%
Oates_Branch_R10	432%	36%	20%	20%	21%
Oates_Branch_S30	712%	38%	24%	22%	21%
Oates_Branch_J30	536%	37%	22%	21%	21%
Oates_Branch_S20	267%	28%	21%	20%	19%
Oates_Branch_J20	267%	28%	21%	20%	19%
Oates_Branch_R20	196%	24%	10%	9%	9%
Oates_Branch_S40	664%	31%	20%	19%	18%
Oates_Branch_J40	412%	28%	15%	13%	13%
Oates_Branch_J50	477%	35%	20%	19%	19%
Oates_Branch_R30	487%	37%	21%	20%	19%
Oates_Branch_S50	441%	28%	19%	18%	17%
Oates_Branch_J60	441%	28%	19%	18%	17%
Oates_Branch_R40	465%	36%	23%	20%	15%
Oates_Branch_S60	494%	38%	24%	23%	21%
Oates_Branch_J70	488%	38%	22%	21%	20%
Oates_Branch_R50	488%	38%	22%	21%	20%
Oates_Branch_S70	435%	31%	20%	19%	18%
Oates_Branch_abv_West_Fork	488%	38%	23%	21%	20%
West_Fork_blw_Oates_Branch	106%	39%	41%	37%	27%
West_Fork_R420	106%	39%	41%	37%	27%
Eagle_Mountain_S002	278%	38%	24%	23%	21%
Eagle_Mountain_S003	139%	30%	21%	20%	19%
West_Fork_J370	107%	39%	42%	37%	27%
West_Fork_R430	107%	39%	42%	37%	27%
Derrett_Ck_S30	584%	39%	25%	23%	21%
Derrett_Ck_J30	584%	39%	25%	23%	21%
Derrett_Ck_R30	588%	39%	25%	21%	20%
Derrett_Ck_S40	295%	21%	17%	16%	16%
Derrett_Ck_J50	574%	40%	25%	21%	20%
Derrett_Ck_R50	2182%	39%	26%	18%	16%
Derrett_Ck_S50	279%	25%	17%	16%	15%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Derrett_Ck_J60	279%	25%	17%	16%	15%
Derrett_Ck_R60	223%	23%	10%	9%	10%
Derrett_Ck_S60	229%	29%	20%	19%	18%
Derrett_Ck_J70	603%	36%	23%	19%	13%
Derrett_Ck_abv_Eagel_Mountai	603%	36%	23%	19%	13%
Derrett_Ck_R80	745%	36%	23%	19%	13%
Eagle_Mountain_S004	64%	31%	25%	24%	23%
West_Fork_J380	108%	39%	42%	37%	27%
Briar_Ck_S10	772%	32%	20%	19%	17%
Briar_Ck_J10	772%	32%	20%	19%	17%
Briar_Ck_R10	3149%	39%	20%	21%	10%
Briar_Ck_S20	339%	34%	22%	20%	19%
Briar_Ck_abv_Eagle_Mountain	750%	39%	21%	20%	9%
West_Fork_J390	125%	40%	42%	37%	27%
West_Fork_R440	125%	40%	42%	37%	27%
Eagle_Mountain_S005	46%	24%	21%	21%	20%
West_Fork_J400	129%	40%	42%	37%	27%
West_Fork_R450	129%	40%	42%	37%	27%
Eagle_Mountain_S006	55%	22%	18%	17%	16%
WestFork_abv_Eagle_Mountain	140%	40%	42%	37%	27%
Indian_Ck_S010	195%	40%	28%	26%	24%
Indian_Ck_J010_abv	195%	40%	28%	26%	24%
Indian_Ck_S020	252%	41%	28%	27%	25%
Indian_Ck_J020	252%	41%	28%	27%	25%
Indian_Ck_J030_blw_Trib	212%	41%	28%	26%	24%
Indian_Ck_R010	207%	39%	29%	25%	18%
Indian_Ck_S030	209%	29%	19%	18%	17%
Indian_Ck_abv_Moss_Branch	212%	39%	29%	26%	19%
Moss_Branch_S010	268%	36%	24%	23%	21%
Moss_Branch_J010	268%	36%	24%	23%	21%
Moss_Branch_R010	486%	43%	26%	25%	24%
Moss_Branch_S020	322%	28%	18%	17%	16%
Moss_Branch_abv_Incdian_Ck	456%	49%	29%	28%	27%
Indian_Ck_blw_Moss_Branch	248%	42%	29%	26%	20%
Indian_Ck_R020	286%	37%	32%	27%	17%
Indian_Ck_S040	226%	31%	20%	19%	18%
Indian_Ck_J040	291%	39%	34%	30%	16%
Indian_Ck_R030	291%	39%	34%	30%	16%
Indian_Ck_S050	82%	27%	20%	19%	18%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Indian_Ck_abv_West_Fork	199%	37%	33%	30%	19%
West_Fork_blw_Indian_Ck	210%	38%	42%	37%	28%
West_Fork_R460	210%	38%	42%	37%	28%
Gilmore_Branch_S010	290%	22%	13%	12%	11%
Gilmore_Branch_J010	290%	22%	13%	12%	11%
Gilmore_Branch_R010	381%	30%	22%	16%	7%
Eagle_Mountain_S031	77%	23%	18%	17%	16%
West_Fork_J410	243%	37%	38%	37%	28%
Swift_Branch_S010	251%	23%	16%	15%	14%
Swift_Branch_J010	251%	23%	16%	15%	14%
Swift_Branch_R010	251%	23%	16%	15%	14%
West_Fork_J420	242%	37%	36%	37%	28%
West_Fork_R470	242%	37%	36%	37%	28%
Walnut_Ck_S001	24%	6%	4%	3%	3%
Walnut_Ck_J010	24%	6%	4%	3%	3%
Walnut_Ck_R010	32%	9%	5%	4%	3%
Walnut_Ck_S002	33%	10%	7%	7%	6%
Walnut_Ck_J020_abv	35%	10%	6%	4%	2%
Walnut_Ck_S003	27%	6%	3%	2%	2%
Walnut_Ck_J020_blw	34%	8%	4%	3%	2%
Walnut_Ck_R020	31%	11%	11%	4%	1%
Walnut_Ck_S004	62%	20%	14%	13%	12%
Walnut_Ck_J030_abv	36%	12%	12%	6%	0%
Goshen_Ck_S010	27%	5%	2%	1%	1%
Goshen_Ck_J010	27%	5%	2%	1%	1%
Goshen_Ck_R010	28%	5%	2%	1%	1%
Goshen_Ck_S020	57%	20%	14%	13%	12%
Walnut_Ck_J030_blw	36%	11%	9%	5%	0%
Walnut_Ck_R030	41%	13%	12%	7%	0%
Walnut_Ck_S005	43%	17%	12%	12%	11%
Walnut_Ck_J050_abv	41%	13%	13%	7%	0%
Walnut_Ck_S006	66%	22%	15%	14%	13%
Walnut_Ck_J035	66%	22%	15%	14%	13%
Walnut_Ck_R040	70%	24%	15%	14%	11%
Walnut_Ck_S007	47%	17%	14%	14%	13%
Walnut_Ck_J040	75%	25%	15%	13%	10%
Walnut_Ck_J050_blw	43%	13%	14%	9%	0%
Walnut_Ck_R050	45%	12%	15%	8%	1%
Walnut_Ck_S008	49%	24%	19%	18%	17%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Walnut_Ck_J060_abv	44%	12%	15%	7%	0%
Browders_Ck_S010	38%	11%	8%	8%	7%
Browders_Ck_J010	38%	11%	8%	8%	7%
Browders_Ck_R010	62%	26%	19%	16%	11%
Browders_Ck_S020	35%	7%	3%	3%	2%
Browders_Ck_J020	49%	18%	11%	10%	6%
Browders_Ck_R020	54%	21%	13%	9%	3%
Browders_Ck_S030	39%	15%	12%	11%	10%
Walnut_Ck_J060_blw	47%	14%	15%	8%	1%
Walnut_Ck_R060	47%	14%	15%	9%	1%
Walnut_Ck_S009	63%	20%	13%	12%	11%
Walnut_Ck_J070_abv	47%	14%	16%	9%	1%
Dry_Br_S010	44%	13%	8%	7%	7%
Dry_Br_J010	44%	13%	8%	7%	7%
Dry_Br_R010	54%	23%	15%	12%	7%
Dry_Br_S020	59%	20%	14%	13%	12%
Dry_Br_J020	58%	22%	15%	13%	8%
Dry_Br_R020	58%	24%	16%	10%	7%
Dry_Br_S030	59%	19%	13%	13%	12%
Dry_Br_J030	60%	25%	17%	9%	7%
Walnut_Ck_J070_blw	50%	15%	16%	10%	1%
Walnut_Ck_R070	50%	15%	16%	10%	1%
Woody_Ck_S010	22%	3%	1%	1%	0%
Woody_Ck_J010	22%	3%	1%	1%	0%
Woody_Ck_R010	46%	17%	17%	13%	5%
Woody_Ck_S020	48%	14%	8%	8%	7%
Woody_Ck_J020	52%	18%	17%	13%	7%
Woody_Ck_R020	52%	23%	19%	10%	6%
Woody_Ck_S030	67%	18%	12%	11%	10%
Woody_Ck_J030_abv_Walnut_Ck	54%	24%	19%	9%	6%
Walnut_Ck_S010	16%	1%	1%	0%	0%
Walnut_Ck_J080_blw_Woody_Ck	51%	17%	17%	10%	2%
Walnut_Ck_R080	49%	18%	17%	10%	2%
Walnut_Ck_S011	28%	5%	3%	3%	3%
Walnut_Ck_J090_abv	49%	18%	17%	10%	2%
Walnut_Ck_S012	39%	11%	7%	6%	6%
Walnut_Ck_J080	39%	11%	7%	6%	6%
Walnut_Ck_R090	41%	12%	8%	7%	5%
Walnut_Ck_S013	57%	19%	14%	13%	12%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Walnut_Ck_J090_blw	50%	20%	18%	10%	2%
Walnut_Ck_R100	50%	20%	21%	11%	2%
Walnut_Ck_S014	36%	9%	6%	5%	5%
Walnut_Ck_J100_abv	50%	20%	21%	11%	2%
Walnut_Ck_Trib_S010	26%	4%	1%	1%	1%
Walnut_Ck_Trib_J010	26%	4%	1%	1%	1%
Walnut_Ck_Trib_R010	27%	6%	3%	2%	1%
Walnut_Ck_Trib_S020	28%	5%	3%	3%	2%
Walnut_Ck_Trib_J020_abv	28%	6%	4%	3%	1%
Walnut_Ck_Trib_S030	46%	13%	9%	8%	7%
Walnut_Ck_Trib_J030	46%	13%	9%	8%	7%
Walnut_Ck_Trib_R020	53%	17%	10%	8%	5%
Walnut_Ck_Trib_S040	30%	5%	3%	3%	2%
Walnut_Ck_Trib_J040	58%	20%	12%	9%	5%
Walnut_Ck_Trib_J020_blw	45%	13%	9%	7%	3%
Walnut_Ck_Trib_R030	42%	14%	11%	8%	2%
Walnut_Ck_Trib_S050	27%	5%	2%	2%	2%
Walnut_Ck_Trib_J050_abv	43%	15%	13%	12%	2%
Walnut_Ck_Trib_S060	22%	3%	1%	1%	0%
Walnut_Ck_Trib_J070	22%	3%	1%	1%	0%
Walnut_Ck_Trib_J060_blw	37%	15%	12%	11%	2%
Walnut_Ck_Trib_R040	36%	15%	12%	10%	2%
Walnut_Ck_Trib_S070	21%	4%	2%	2%	2%
Walnut_Ck_Trib_J080	36%	16%	12%	10%	2%
Walnut_Ck_Trib_R050	39%	15%	14%	11%	3%
Walnut_Ck_Trib_S080	33%	9%	5%	5%	4%
Walnut_Ck_J100_blw	52%	22%	26%	12%	4%
Walnut_Ck_R110	52%	22%	25%	13%	5%
Walnut_Ck_S015	52%	14%	12%	12%	11%
Walnut_Ck_J110_abv	52%	22%	25%	13%	5%
Walnut_Ck_S016	64%	22%	15%	14%	13%
Walnut_Ck_J110_blw	53%	23%	27%	14%	4%
Walnut_Ck_R120	53%	24%	25%	15%	5%
Walnut_Ck_S017	69%	23%	16%	15%	14%
Walnut_Ck_J120_abv	53%	24%	25%	15%	5%
Walnut_Ck_S018	54%	17%	12%	11%	10%
Walnut_Ck_J120_blw	53%	25%	26%	15%	5%
Walnut_Ck_R130	54%	25%	26%	15%	5%
Walnut_Ck_S019	69%	24%	18%	17%	16%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Walnut_Ck_J130_Gage	54%	25%	26%	15%	5%
Walnut_Ck_R140	62%	25%	27%	16%	7%
Walnut_Ck_S021	231%	19%	14%	13%	13%
Walnut_Ck_J140_abv	62%	25%	27%	16%	7%
Cottonwood_Br_S010	292%	24%	16%	16%	15%
Cottonwood_Br_J010	292%	24%	16%	16%	15%
Cottonwood_Br_R010	373%	43%	23%	19%	13%
Cottonwood_Br_S020	850%	32%	19%	17%	16%
Walnut_Ck_J140_blw	63%	26%	29%	17%	6%
Walnut_Ck_R150	66%	26%	29%	17%	7%
Walnut_Ck_S022	1439%	25%	15%	14%	13%
Walnut_Ck_J150_abv	66%	26%	29%	17%	7%
Walnut_Ck_S023	1407%	27%	17%	16%	15%
Walnut_Ck_J160	1407%	27%	17%	16%	15%
Walnut_Ck_R160	1407%	33%	20%	17%	11%
Walnut_Ck_S024	431%	22%	15%	15%	14%
Walnut_Ck_J170	673%	32%	21%	20%	15%
Walnut_Ck_J150_blw	67%	26%	30%	18%	7%
Walnut_Ck_R170	67%	26%	30%	18%	7%
Walnut_Ck_S025	290%	25%	15%	14%	13%
Walnut_Ck_J180	68%	26%	31%	18%	7%
Walnut_Ck_R180	86%	27%	37%	24%	12%
Walnut_Ck_S026	455%	30%	17%	16%	15%
Walnut_Ck_J200_abv	87%	27%	38%	24%	12%
Walnut_Ck_S027	846%	27%	16%	15%	14%
Walnut_Ck_J190	846%	27%	16%	15%	14%
Walnut_Ck_R190	875%	35%	22%	17%	12%
Walnut_Ck_S028	336%	27%	18%	17%	16%
Walnut_Ck_J200_blw	87%	27%	39%	25%	12%
Walnut_Ck_R200	87%	27%	39%	25%	12%
West_Fork_J430	186%	47%	43%	42%	35%
West_Fork_R480	186%	47%	43%	42%	35%
Dosier_Ck_S010	213%	24%	15%	14%	13%
Dosier_Ck_J010	213%	24%	15%	14%	13%
Dosier_Ck_R010	213%	24%	15%	14%	13%
Little_Dosier_Ck_S010	222%	21%	14%	13%	12%
Little_Dosier_Ck_J010	222%	21%	14%	13%	12%
Little_Dosier_Ck_R010	222%	21%	14%	13%	12%
Dosier_Ck_J020	215%	23%	15%	14%	13%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Dosier_Ck_R020	215%	23%	15%	14%	13%
Eagle_Mountain_S032	51%	26%	20%	19%	18%
West_Fork_J440	173%	41%	24%	29%	32%
West_Fork_R490	173%	41%	24%	29%	32%
Ash_Ck_S010	438%	4%	1%	1%	0%
Ash_Ck_J010	438%	4%	1%	1%	0%
Ash_Ck_R010	478%	24%	18%	15%	8%
Ash_Ck_S020	596%	11%	5%	5%	4%
Ash_Ck_J020_abv	553%	16%	13%	12%	9%
Ash_Ck_S030	384%	9%	3%	3%	2%
Ash_Ck_J020_blw	450%	13%	9%	8%	5%
Ash_Ck_R020	491%	20%	18%	11%	5%
Ash_Ck_S040	454%	12%	6%	6%	5%
Ash_Ck_J030	481%	15%	12%	16%	5%
Ash_Ck_R030	510%	23%	19%	12%	5%
Ash_Ck_S050	301%	28%	17%	16%	15%
Ash_Ck_J040	360%	22%	17%	12%	5%
Ash_Ck_R040	370%	20%	17%	11%	3%
Ash_Ck_S060	211%	28%	18%	18%	17%
Ash_Ck_J050_abv	315%	21%	16%	11%	4%
Ash_Ck_S070	458%	20%	11%	11%	10%
Ash_Ck_J050_blw	324%	28%	15%	13%	6%
Ash_Ck_R050	354%	27%	17%	12%	3%
Ash_Ck_S080	134%	15%	10%	10%	9%
Ash_Ck_J060	348%	28%	17%	12%	4%
Ash_Ck_S090	400%	23%	16%	15%	14%
Ash_Ck_J070	400%	23%	16%	15%	14%
Ash_Ck_J080	348%	31%	18%	12%	4%
Ash_Ck_R060	348%	31%	18%	12%	4%
Eagle_Mountain_S033	58%	23%	18%	18%	17%
West_Fork_J450	170%	40%	23%	27%	29%
Eagle_Mountain_Reservoir	7%	18%	13%	12%	11%
West_Fork_R500	7%	18%	13%	12%	11%
Lake_Worth_S010	191%	48%	28%	25%	23%
West_Fork_J460	18%	18%	13%	12%	11%
West_Fork_R510	18%	18%	13%	12%	11%
Silver_Ck_S010	423%	10%	3%	3%	2%
Silver_Ck_J010	423%	10%	3%	3%	2%
Silver_Ck_R010	412%	12%	4%	3%	3%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Silver_Ck_S020	651%	10%	2%	1%	1%
Silver_Ck_J020_abv	489%	11%	3%	2%	2%
Silver_Ck_S030	1066%	46%	23%	21%	19%
Silver_Ck_J020_blw	754%	26%	12%	10%	9%
Silver_Ck_R020	829%	27%	13%	10%	9%
Silver_Ck_S040	815%	32%	17%	16%	14%
Silver_Ck_J030	833%	28%	13%	10%	8%
Silver_Ck_R030	1122%	48%	16%	11%	7%
Silver_Ck_S050	815%	52%	26%	24%	22%
Silver_Ck_J050_abv	1117%	49%	16%	11%	7%
Silver_Ck_S060	541%	31%	16%	14%	13%
Silver_Ck_J040	541%	31%	16%	14%	13%
Silver_Ck_R040	597%	32%	17%	15%	16%
Silver_Ck_S070	425%	37%	22%	20%	19%
Silver_Ck_J050_blw	703%	50%	17%	11%	7%
Silver_Ck_R050	743%	50%	17%	12%	7%
Silver_Ck_S080	843%	28%	16%	15%	14%
Silver_Ck_J060_abv	742%	50%	17%	12%	7%
Little_Silver_Ck_S010	778%	42%	24%	22%	21%
Little_Silver_Ck_J010	778%	42%	24%	22%	21%
Little_Silver_Ck_R010	863%	44%	24%	23%	21%
Little_Silver_Ck_S020	797%	50%	26%	24%	22%
Little_Silver_Ck_J020_abv	846%	47%	25%	23%	21%
Little_Silver_Ck_S030	3812%	54%	27%	24%	22%
Little_Silver_Ck_J020_blw	1144%	49%	26%	24%	22%
Little_Silver_Ck_R020	1270%	49%	25%	16%	15%
Little_Silver_Ck_S040	1260%	43%	22%	20%	18%
Little_Silver_Ck_J030	1324%	50%	26%	16%	15%
Little_Silver_Ck_R030	700%	53%	25%	16%	15%
Little_Silver_Ck_S050	481%	45%	25%	23%	21%
Silver_Ck_J060_blw	671%	45%	20%	15%	10%
Silver_Ck_R060	769%	53%	20%	16%	11%
Silver_Ck_S090	833%	46%	25%	23%	21%
Silver_Ck_J070	761%	53%	21%	16%	11%
Silver_Ck_R070	785%	63%	21%	16%	10%
Silver_Ck_S100	477%	46%	24%	22%	20%
Silver_Ck_J080_abv	738%	65%	22%	16%	10%
Silver_Ck_S110	450%	51%	26%	24%	22%
Silver_Ck_J080_blw	631%	66%	23%	17%	10%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Silver_Ck_R080	685%	66%	23%	17%	10%
Silver_Ck_S120	479%	36%	18%	17%	15%
Silver_Ck_J100_abv	685%	67%	24%	17%	10%
Silver_Ck_S130	655%	49%	25%	23%	21%
Silver_Ck_J090	655%	49%	25%	23%	21%
Silver_Ck_R090	124%	33%	36%	38%	37%
Silver_Ck_S140	842%	47%	24%	22%	20%
Silver_Ck_J100_blw	641%	67%	24%	18%	11%
Silver_Ck_R100	644%	67%	25%	17%	11%
Silver_Ck_J110_abv_Mill_Ck	644%	67%	25%	17%	11%
Mill_Ck_S010	297%	39%	23%	21%	20%
Mill_Ck_J010	297%	39%	23%	21%	20%
Mill_Ck_R010	284%	40%	23%	21%	20%
Mill_Ck_S020	532%	44%	25%	24%	22%
Mill_Ck_J020	358%	42%	23%	21%	20%
Mill_Ck_R020	40%	444%	38%	28%	20%
Mill_Ck_S030	460%	47%	25%	23%	21%
Mill_Ck_J030	242%	96%	39%	29%	21%
Mill_Ck_R030	573%	150%	40%	31%	23%
Mill_Ck_S040	288%	41%	23%	21%	19%
Silver_Ck_J110_blw_Mill_Ck	620%	76%	26%	18%	12%
Silver_Ck_R110	574%	75%	21%	23%	13%
Silver_Ck_S150	419%	48%	26%	24%	22%
Silver_Ck_J120	562%	76%	21%	23%	13%
Silver_Ck_R120	565%	76%	21%	21%	14%
Live_Oak_Ck_S010	428%	49%	26%	23%	21%
Live_Oak_Ck_J010	428%	49%	26%	23%	21%
Live_Oak_Ck_R010	497%	48%	24%	21%	20%
Live_Oak_Ck_S020	409%	48%	24%	22%	20%
Live_Oak_Ck_J020	480%	49%	24%	21%	20%
Live_Oak_Ck_R020	480%	49%	24%	21%	20%
Silver_Ck_J130	501%	79%	22%	21%	15%
Silver_Ck_R130	501%	79%	22%	21%	15%
Lake_Worth_S020	49%	19%	11%	10%	9%
Lake_Worth_Inflow	85%	57%	23%	20%	16%
Lake_Worth	90%	20%	15%	13%	12%
Lake_Worth_Outlet	90%	20%	15%	13%	12%
Dry_Fork_R20	793%	28%	18%	17%	17%
West_Fork_R_100	600%	24%	10%	9%	8%

Hydrologic Element	Percent Increase in Peak Discharge (cfs)				
	2-yr	10-yr	50-yr	100-yr	500-yr
Little_Silver_Ck_J040	642%	53%	25%	16%	15%
Mill_Ck_J040	404%	88%	41%	32%	24%
Silver_Ck_J100	619%	35%	24%	29%	34%
Silver_Ck_J050	516%	33%	17%	16%	17%

8 References

- Araya, F., and S. Vasquez. 2022. “Challenges, Drivers, and Benefits to Integrated Infrastructure Management of Water, Wastewater, Stormwater and Transportation Systems.” *Sustainable Cities and Society* 82: 103913. <https://doi.org/10.1016/j.scs.2022.103913>.
- Interagency Flood Risk Management. 2021. “Watershed Hydrology Assessment for the Trinity River Basin.”
- U.S. Army Corps Engineers (USACE). 2022. “Upper Trinity River Silver Jackets Storm Shifting Report.”