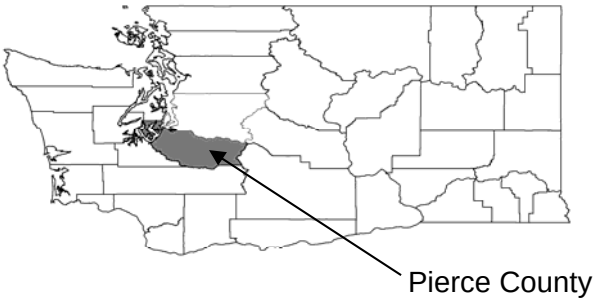
FLOOD INSURANCE STUDY

PIERCE COUNTY, WASHINGTON

AND INCORPORATED AREAS

Volume 2 of 5



COMMUNITY NAME	COMMUNITY NUMBER
BONNEY LAKE, CITY OF	530274
BUCKLEY, CITY OF	530139
CARBONADO, TOWN OF*	530243
DUPONT, CITY OF	530245
EATONVILLE, TOWN OF	530283
EDGEWOOD, CITY OF	530328
FIFE, CITY OF	530140
FIRCREST, CITY OF	530141
GIG HARBOR, CITY OF	530142
LAKEWOOD, CITY OF	530333
MILTON, CITY OF	530294
ORTING, CITY OF	530143
PIERCE COUNTY, (UNINCORPORATED AREAS)	530138
PUYALLUP, CITY OF	530144
ROY, CITY OF	530262
RUSTON, TOWN OF	530300
SOUTH PRAIRIE, TOWN OF	530145
STEILACOOM, TOWN OF	530146
SUMNER, CITY OF	530147
TACOMA, CITY OF	530148
UNIVERSITY PLACE, CITY OF	530332
WILKESON, TOWN OF	530268

*No Special Flood Hazard Areas identified

REVISED PRELIMINARY

December 19, 2014

Effective: TBD

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
53053CV002A

NOTICE TO
FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

Selected Flood Insurance Rate Map panels for the community contain information that was previously shown separately on the corresponding Flood Boundary and Floodway Map panels (e.g., floodways, cross sections). In addition, former flood hazard zone designations have been changed as follows:

Old Zone	New Zone
A1 through A30	AE
V1 through V30	VE
B	X
C	X

Part or all of this FIS may be revised and republished at any time. In addition, part of this FIS may be revised by a Letter of Map Revision process, which does not involve republication or redistribution of the FIS. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current FIS report components.

ATTENTION: On FIRM panels 53053C0166E, 53053C0167E, 53053C0168E, 53053C0169E, 53053C0188E, 53053C0306E, 53053C0307E, 53053C0326E, 53053C0327E, 53053C0328E, 53053C0329E, 53053C0333E, 53053C0363E, 53053C0601E, 53053C0602E, 53053C0603E, 53053C0604E, 53053C0606E, 53053C0607E, 53053C0608E, 53053C0609E, 53053C0612E, and 53053C0626E, the Carbon River and Puyallup River levees have not been demonstrated by the community or levee owner(s) to meet the requirements of Section 65.10 of the NFIP regulations in 44 CFR as it relates to the levee's capacity to provide 1%-percent-annual-chance flood protection. The subject areas are identified on FIRM panels (with notes and bounding lines) and in the FIS report as potential areas of flood hazard data changes based on further review.

FEMA has updated the levee analysis and mapping procedures for non-accredited levees. Until such time as FEMA is able to initiate a new flood risk project to apply the new procedures, the flood hazard information on the aforementioned FIRM panels that are affected by the Carbon River and Puyallup River levees are being added as a snapshot of the prior previously effective information presented on the FIRMs and FIS reports dated 8/19/1987, 5/1980, 9/27/1985, and 6/1/1983. As indicated above, it is expected that affected flood hazard data within the subject area could be significantly revised. This may result in floodplain boundary changes, 1%-percent- annual -chance flood elevation changes, and/or changes to flood hazard zone designations.

The effective FIRM panels (and the FIS report) will again be revised at a later date to update the flood hazard information associated with the Carbon River and Puyallup River levees when FEMA is able to initiate and complete a new flood risk project to apply the new levee analysis and mapping procedures.

Initial Countywide FIS Effective Date: To Be Determined

TABLE OF CONTENTS

Volume 1

Page

1.0 INTRODUCTION 1
- 1.1 Purpose of Study 1
- 1.2 Authority and Acknowledgements 2
- 1.3 Coordination 4

2.0 AREA STUDIED 10
- 2.1 Scope of Study 10
- 2.2 Community Description 15
- 2.3 Principal Flood Problems 29
- 2.4 Flood Protection Measures 41

3.0 ENGINEERING METHODS 46
- 3.1 Hydrologic Analyses 47
- 3.2 Hydraulic Analyses 73
- 3.3 Wave Height Analyses 117
- 3.4 Vertical Datum 145

4.0 FLOODPLAIN MANAGEMENT APPLICATIONS 148
- 4.1 Floodplain Boundaries 148
- 4.2 Floodways 149

FIGURES

Figure 1 – Transect Schematic 127
Figure 2 – Transect Location Map 144
Figure 3 – Floodway Schematic 151

TABLES

Table 1 – Letters of Map Revisions Incorporated for the Initial Countywide Study 15
Table 2 – Summary of Discharges 64
Table 3 – Summary of Elevations 72
Table 4 – Manning's "n" Values 77
Table 5a – Transect Data Locations 121
Table 5b – Transect Descriptions 128
Table 6 – Datum Conversion Factors 145

TABLE OF CONTENTS (Continued)

Volume 2

4.3 Base Flood Elevations 252

4.4 Velocity Zones.....252

5.0 INSURANCE APPLICATION 252

6.0 FLOOD INSURANCE RATE MAP 253

7.0 OTHER STUDIES 256

8.0 LOCATION OF DATA 256

9.0 BIBLIOGRAPHY AND REFERENCES 257

TABLES (Continued)

Table 7 – Floodway Data 153

Table 8 – Community Map History.....255

Volume 3

EXHIBITS

Exhibit 1 – Flood Profiles

Artondale Creek	Panel 01P
Artondale Creek East Branch	Panel 02P
Artondale Creek West Branch	Panel 03P
Bonney Lake Outflow	Panels 04P-06P
Canyon Creek	Panels 07P-22P
Canyon Creek – West Fork	Panels 23P-32P
Carbon River - Split Flow	Panel 33Pa
Carbon River – With Consideration of Levees	Panels 33P-36P
Carbon River – Without Consideration of Left Levees	
Downstream of the Bridges	Panels 37P-40P
Upstream of the Bridges	Panels 41P-44P
Carbon River – Without Consideration of Right Levees	Panels 45P-48P
Chambers Creek	Panels 49P-52P
Clarks Creek	Panels 53P-54P
Clear Creek	Panels 55P-57P
Clear Creek – East Fork	Panels 58P-67P
Clear Creek – East Fork West Stem	Panels 68P-71P
Clover Creek	Panels 72P-82P
Clover Creek Overflows:	
At 134th Avenue	Panel 83P
At Designated Parkland	Panels 84P-85P
At Golf Course	Panel 86P
Near Lakewood Mall	Panel 87P
At Pacific Avenue	Panel 88P

TABLE OF CONTENTS (Continued)
Volume 3 (Continued)

Crescent Creek	Panels 89P-91P
Crescent Creek – Split Flow	Panel 92P
Debra Jane Creek	Panels 93P-95P
Diru Creek	Panels 96P-108P
Diru Creek – 96th Street East Overflow	Panel 109P
Diru Creek – 104th Street East Overflow	Panels 110P-111P

Volume 4

Fennel Creek	Panels 112P-122P
Greenwater River	Panels 123P-125P
Horn Creek	Panels 126P-128P
Hylebos Creek	Panels 129P-130P
Hylebos Creek Tributary	Panel 131P
Lacamas Creek	Panels 132P-135P
Leach Creek	Panels 136P-137P
Little Mashel River	Panels 138P-145P
Mashel River	Panels 146P-147P
Meeker Ditch	Panel 148P
Morey Creek	Panels 149P-150P
North Creek	Panel 152P
North Fork Clover Creek	Panels 153P-169P
North Fork Clover Creek Tributary 1	Panels 170P-181P
North Fork Clover Creek Tributary 2	Panels 182P-185P
North Fork Clover Creek Tributary 4	Panels 186P-188P
North Fork Clover Creek Tributary 5	Panels 189P-190P
North Fork Clover Creek Trib. 1 - Bingham Split Flow	Panel 191P
North Fork Clover Creek – Golden Given Rd Split Flow	Panel 192P
North Fork Clover Creek – Split Flow 1	Panels 193P-194P
Ohop Creek	Panels 195P-199P
Puyallup River – With Consideration of Levees	Panels 200P-212P
Puyallup River – Without Consideration of Left Levee	Panels 213P-225P

Volume 5

Puyallup River – Without Consideration of Right Levee	Panels 226P-238P
Puyallup River – BNSF Railroad to Interstate 5	Panels 239P-240P
Puyallup River Overflows:	
Annis Bowman Overflow	Panel 241P
w/o Consideration of Right Levee	
w/ Consideration of BNSF Railroad	Panel 242P
To Blair Waterway via Wapato I	Panel 243P
To Blair Waterway via Wapato West	Panel 244P
To Clark/Canyon Creeks	Panel 245P
Through Golf Course:	
To Middle Waterway via WWTP Reach	Panels 246P-248P
Rody Creek	Panels 249P-262P
Salmon Creek	Panels 263P-264P
South Creek Tributary No. 1	Panels 265P-266P

TABLE OF CONTENTS (Continued)

Volume 5

South Creek Tributary No. 2	Panel 267P
South Creek Tributary No. 3	Panel 268P
South Creek Tributary No. 4	Panel 269P
South Prairie Creek	Panels 270P-272P
South Prairie Creek Split Reach 1	Panel 273P
South Prairie Creek Split Reach 2	Panel 274P
South Prairie Creek Split Reach 3	Panel 275P
South Prairie Creek Split Reach 4	Panel 276P
Spanaway Creek	Panels 277P-281P
Squally Creek	Panels 282P-283P
Swan Creek	Panels 284P-290P
Tanwax Creek	Panels 291P-292P
Unnamed Creek	Panels 293P-294P
Wapato Creek I	Panels 295P-297P
Wapato Creek II	Panels 298P-299P
White River	Panels 300P-310P
White River Split Flow	Panel 311P
Wilkeson Creek	Panels 312P-313P
Woodland Creek	Panels 314P-324P
Woodland Creek – 80th Street East Overflow	Panels 325P-326P
Woodland Creek – 96th Street East Overflow	Panels 327P-328P
Seclusion Area Profiles:	
Carbon River – With Consideration of Levees	
(Left Seclusion Area)	Panels 329P-332P
(Right Seclusion Area)	Panel 333P
Carbon River – Without Consideration of Levees	
(Left Seclusion Area)	Panels 334P-336P
(Right Seclusion Area)	Panel 337P
Clear Creek	Panel 338P
Hylebos Creek	Panel 339P
Puyallup River (Left Seclusion Area)	Panels 340P-344P
Puyallup River (Right Seclusion Area)	Panels 345P-350P
Puyallup River – With Consideration of Levee	
(Orting Left Seclusion Area)	Panel 351P
(Orting Right Seclusion Area)	Panel 352P
Puyallup River – Without Consideration of Levee	
(Orting Left Seclusion Area)	Panel 353P
(Orting Right Seclusion Area)	Panel 354P
Swan Creek	Panel 355P
Wapato Creek	Panels 356P-358P
Wapato Creek I	Panels 359P-361P

PUBLISHED SEPARATELY

Flood Insurance Rate Map Index
Flood Insurance Rate Map

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY[2] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ARTONDALE CREEK								
A	289	14	66	7.1	12.2	12.2	12.2	0.0
B	344	39	148	1.6	13.1	13.1	13.1	0.0
C	479	20	83	2.8	13.1	13.1	13.1	0.0
D	672	16	51	4.5	13.4	13.4	13.6	0.2
E	934	45	48	4.8	16.4	16.4	16.4	0.0
F	1,275	14	30	7.6	21.1	21.1	21.1	0.0
G	1,479	21	36	7.8	24.1	24.1	24.1	0.0
H	1,503	10	44	5.3	25.0	25.0	25.5	0.5
I	1,625	11	34	6.8	25.8	25.8	26.3	0.5
J	1,808	30	75	3.1	27.1	27.1	27.6	0.5
K	1,834	30	59	3.9	27.2	27.2	27.7	0.5
L	1,875	20	36	6.4	27.5	27.5	27.8	0.3
M	1,896	16	38	6.2	28.1	28.1	28.1	0.0
N	2,075	30	41	5.6	30.0	30.0	30.0	0.0
O	2,237	10	29	7.9	31.6	31.6	31.8	0.2
P	2,305	8	33	7.1	32.3	32.3	33.1	0.8
Q	2,375	25	217	1.4	38.4	38.4	39.3	0.9
R	2,505	25	214	1.2	38.6	38.6	39.3	0.7
S	2,810	25	232	1.1	38.6	38.6	39.3	0.7
T	3,002	25	200	1.2	38.6	38.6	39.3	0.7
U	3,017	30	224	1.1	38.6	38.6	39.4	0.8
V	3,141	30	235	1.1	38.6	38.6	39.4	0.8
W	3,334	30	164	1.5	38.6	38.6	39.4	0.8
X	3,364	35	166	1.5	38.6	38.6	39.5	0.9
Y	3,522	60	241	1.0	38.6	38.6	39.5	0.9
Z	3,988	90	397	0.6	38.6	38.6	39.6	1.0

[1]Feet Above Confluence with Wollochet Bay

[2]Elevations Computed Without Consideration of Storm Surge Effects from Wollochet Bay

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ARTONDALE CREEK, EAST BRANCH								
A	4,447	94	387	0.2	38.6	38.6	39.6	1.0
B	5,470	10	14	5.3	43.9	43.9	44.0	0.1
C	6,020	10	17	4.3	50.3	50.3	50.3	0.0
D	6,312	30	15	4.7	53.8	53.8	53.8	0.0
E	6,736	10	19	3.7	57.1	57.1	57.5	0.4
F	7,030	10	18	4.0	59.2	59.2	59.4	0.2
G	7,564	14	32	2.3	60.1	60.1	61.1	1.0
H	8,380	8	12	6.2	71.7	71.7	71.9	0.2
I	8,718	8	11	6.6	101.7	101.7	101.8	0.1
J	9,104	8	11	6.6	129.8	129.8	129.8	0.0
K	9,450	8	11	6.6	152.8	152.8	152.8	0.0
ARTONDALE CREEK, WEST BRANCH								
A	4,476	95	410	0.6	38.7	38.7	39.7	1.0
B	5,462	24	63	3.7	39.7	39.7	40.3	0.6
C	5,770	16	36	6.5	42.6	42.6	42.8	0.2
D	5,930	13	33	7.1	44.2	44.2	44.8	0.6
E	5,968	10	48	4.8	45.7	45.7	46.4	0.7
F	6,056	29	139	1.0	45.8	45.8	46.8	1.0
G	6,328	41	237	0.6	45.8	45.8	46.8	1.0
H	6,620	15	45	3.1	46.1	46.1	47.1	1.0
I	7,090	25	45	3.1	48.0	48.0	48.7	0.7
J	7,730	60	148	0.9	48.7	48.7	49.7	1.0

[1]Feet Above Confluence with Wollochet Bay

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Canyon Creek								
A	0	6.8	14	5.5	279.2	279.2	279.2	0
B	375	6.2	15	5.1	285.9	285.9	285.9	0
C	682	5.9	13.4	5.7	291.5	291.5	291.5	0
D	965	8.4	13.1	5.8	297.5	297.5	297.5	0
E	1405	7.5	11	6.9	318.3	318.3	318.3	0
F	1798	7.4	12.2	6.2	328.6	328.6	328.6	0
G	1809	8.7	15.8	8.5	328.8	328.8	328.8	0
H	1898	15.3	259.2	0.3	346	346	346.4	0.4
I	1911	17.1	290.9	0.3	346	346	346.4	0.4
J	2321	8.7	19.6	3.9	345.9	345.9	346.43	0.5
K	2726	4.8	13	5.8	353.5	353.5	353.5	0
L	2738	4.5	13.2	6	353.7	353.7	353.7	0
M	2807	12.8	232.1	0.3	369.6	369.6	370	0.4
N	2820	16	279.4	0.3	369.6	369.6	370	0.4
O	3036	7.8	96.5	0.8	369.6	369.6	369.9	0.3
P	3265	8.3	44.5	1.7	369.6	369.6	370	0.4
Q	3656	5.8	13	5.9	373.9	373.9	374.1	0.2
R	4056	6.3	18	4.2	378.4	378.4	378.7	0.3
S	4199	11.6	31.1	2.5	379.3	379.3	379.5	0.2
T	4207	11.7	26.9	5.8	379	379	379.3	0.3
U	4260	11.7	41.4	3.2	382.8	382.8	382.8	0
V	4268	10.8	37.6	2	383	383	383	0
W	4314	15.7	43.5	1.8	383.1	383.1	383.1	0
X	4575	13.8	30.9	2.5	384.3	384.3	384.3	0
Y	4586	14.1	31.2	4.9	384.2	384.2	384.2	0
Z	4627	14.4	57.6	1.3	385.3	385.3	386.3	1
AA	4637	8.4	40.3	1.9	385.4	385.4	386.3	0.9
AB	4695	11	44.9	1.7	385.3	385.3	386.3	1

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Canyon Creek								
AC	4703	6.4	25.7	3	385.3	385.3	386.3	1
AD	4721	6.4	27.9	2.8	385.9	385.9	386.7	0.8
AE	4730	14.6	63.4	1.2	385.9	385.9	386.9	1
AF	4974	11.1	45.5	1.7	386.1	386.1	387	0.9
AG	4984	14.4	66.7	1.1	386.2	386.2	387	0.8
AH	5024	12	51.3	1.5	386.5	386.5	387.3	0.8
AI	5033	13.9	54.6	1.4	386.5	386.5	387.3	0.8
AJ	5173	10.9	44.1	1.7	386.6	386.6	387.4	0.8
AK	5450	9	51.5	2.3	386.7	386.7	387.6	0.9
AL	5459	24.3	123.6	1.4	386.7	386.7	387.7	1
AM	5517	19.2	105	1	387.1	387.1	388.1	1
AN	5524	8	49.3	2	387.1	387.1	388.1	1
AO	5633	160	965.9	0.1	387.1	387.1	388.1	1
AP	5835	22.5	95.9	0.8	387.1	387.1	388.1	1
AQ	5848	45	122.7	1	387.1	387.1	388.1	1
AR	5876	35	84	1.2	387.1	387.1	388.1	1
AS	5889	325	728	0.2	387.1	387.1	388.1	1
AT	6168	40	219.4	0.4	387.1	387.1	388.1	1
AU	6335	30	160.2	0.6	387.1	387.1	388.1	1
AV	6343	45	149.5	0.8	387.1	387.1	388.1	1
AW	6385	57	200.5	0.6	387.1	387.1	388.1	1
AX	12	72.5	256.6	0.1	387.2	387.2	388.2	1
AY	99	26.5	112.8	0.2	387.2	387.2	388.2	1
AZ	504	48.8	157	0.2	387.2	387.2	388.2	1
BA	827	44.4	140.5	0.2	387.2	387.2	388.2	1
BB	1068	8	21.3	1.1	387.2	387.2	388.2	1
BC	1309	8.4	23.4	1.7	387.5	387.5	388.3	0.8
BD	1348	8.4	31.1	0.8	388.6	388.6	389.1	0.5

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Canyon Creek								
BE	1643	15.3	53.4	0.4	388.6	388.6	389.1	0.5
BF	2174	32.6	90.4	0.2	388.6	388.6	389.1	0.5
BG	2552	5.3	4.8	3.4	392.1	392.1	392.2	0.1
BH	2597	6.9	5.8	3.6	392.7	392.7	392.7	0
BI	2838	8.1	13.5	2	397.4	397.4	397.4	0
BJ	2842	8.5	15.5	1.1	397.5	397.5	397.5	0
BK	2865	5.2	10.9	1.5	397.5	397.5	397.5	0
BL	2872	19	42.5	1.1	397.5	397.5	397.5	0
BM	3254	17	21.6	1.6	401.4	401.4	401.4	0
BN	3283	28	40.1	0.4	401.5	401.5	401.5	0
BO	3593	19.4	6.6	2.5	404.9	404.9	405	0.1
BP	3784	11.4	7.1	2.3	406.7	406.7	406.7	0
BQ	4543	20	15.3	1.1	409.3	409.3	409.3	0
BR	4694	24.3	8.8	1.9	411.3	411.3	411.3	0
BS	4704	7	3.9	4.3	412.1	412.1	412.1	0
BT	4738	10.3	6.4	2.6	412.4	412.4	412.4	0
BU	4750	26.5	33.6	0.5	412.5	412.5	412.5	0
BV	5142	16.5	5.2	3.2	415	415	415	0
BW	5761	10	10.4	1.1	417.9	417.9	417.9	0
BX	5772	4	2.5	4.4	417.8	417.8	417.8	0
BY	5813	8.2	9.2	1.7	418.6	418.6	418.6	0
BZ	5836	7.2	3	3.7	418.7	418.7	418.7	0
CA	6187	10	12	1	419.7	419.7	419.7	0
CB	6197	7.7	9	1.6	419.7	419.7	419.7	0
CC	6252	7.5	8.1	1.7	420.2	420.2	420.2	0
CD	6264	6	7.8	1.4	420.3	420.3	420.3	0
CE	6493	8.8	8.7	1.3	420.5	420.5	420.7	0.2
CF	6989	29.1	34.1	0.3	420.7	420.7	420.8	0.1

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Canyon Creek								
CG	7295	2.7	2.5	4.4	420.6	420.6	420.8	0.1
CH	7300	5.1	6.3	1.7	421.1	421.1	421.1	0
CI	7319	7.2	7.6	1.5	421.7	421.7	421.7	0
CJ	7326	12.5	9.4	1.2	421.7	421.7	421.7	0
CK	7425	12	17.1	0.7	421.8	421.8	421.8	0
CL	7440	5.8	7	1.6	421.8	421.8	421.8	0
CM	7772	5.8	6.8	1.6	422.2	422.2	422.2	0
CN	7785	2.6	2.8	3.9	422.2	422.2	422.2	0
CO	7951	16.3	6.9	1.6	423.3	423.3	423.3	0
CP	8167	17.9	11.5	1	423.8	423.8	424	0.2
CQ	8176	21.3	18.3	1.9	423.8	423.8	424	0.2
CR	8268	14.7	11.6	1.9	424.5	424.5	424.5	0
CS	8279	28.3	19.7	0.6	424.6	424.6	424.6	0
CT	8630	9.7	3.2	1.7	428	428	428.2	0.2
CU	8643	3.8	1.6	3.5	428.6	428.6	428.6	0
CV	8941	14.1	11	1.1	434.4	434.4	434.4	0
CW	8958	12.5	4.6	1.2	434.5	434.5	434.5	0
CX	9273	4.9	2.3	2.4	439.5	439.5	439.5	0
CY	9650	12.5	3.4	1.6	444.6	444.6	444.6	0
CZ	10067	8.9	2.1	2.6	453.8	453.8	453.8	0
DA	10403	10.3	3	1.8	462.4	462.4	462.4	0
DB	10781	7.1	4.4	1.3	464.7	464.7	464.7	0
DC	10791	5.4	2.9	1.9	464.8	464.8	464.8	0
DD	10825	8.5	6.6	1	465.5	465.5	465.5	0
DE	10832	10.6	9.1	0.6	465.5	465.5	465.5	0
DF	11183	13.4	4.6	1.2	467.2	467.2	467.2	0
DG	11428	6.2	2.4	2.3	471	471	471	0
DH	11437	10.8	2.3	2.3	471.5	471.5	471.5	0

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Canyon Creek								
DI	11540	7.6	3.2	0.6	472.6	472.6	472.6	0
DJ	11553	10.1	34.9	0	472.6	472.6	472.6	0
DK	12037	10	16.2	0.1	472.6	472.6	472.6	0
DL	12542	7.7	8.6	0.1	472.6	472.6	472.6	0
DM	13085	20.2	22.6	0.1	472.6	472.6	472.6	0
DN	13100	26.5	17.4	0.5	472.6	472.6	472.6	0
DO	13135	33.2	32	0.4	473.1	473.1	473.1	0
DP	13151	65.4	66.9	0	473.1	473.1	473.1	0
DQ	13613	45.4	36	0	473.1	473.1	473.1	0
DR	13816	5.4	1.8	0.6	473.1	473.1	473.1	0
DS	13826	4.8	1.8	0.8	473.1	473.1	473.1	0
DT	13878	17.1	30.1	0.2	473.4	473.4	473.4	0
DU	13886	26.4	48.6	0	473.4	473.4	473.4	0
DV	14003	63.5	118.6	0.1	473.4	473.4	473.4	0
DW	14011	54.6	62.9	0.5	473.4	473.4	473.4	0
DX	14055	8	2.8	0.7	473.6	473.6	473.6	0
DY	14064	4.1	3.3	0.3	473.6	473.6	473.6	0
DZ	14149	15.4	0.8	1.3	474.5	474.5	474.5	0

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
West Fork Canyon Creek								
A	115	41.4	131.6	0.5	387.2	387.2	388.2	1
B	283	18.4	49.3	1.2	387.2	387.2	388.2	1
C	291	21	46.2	1.3	387.1	387.1	388.2	1.1
D	372	7.8	29	1.8	388.6	388.6	389.1	0.5
E	382	13.2	46.9	1.1	388.7	388.7	389.2	0.5
F	471	11.2	42.8	1.2	388.7	388.7	389.2	0.5
G	487	18.4	53.8	1.0	388.7	388.7	389.2	0.5
H	1036	14.5	77.2	0.8	389.6	389.6	390.6	1
I	1045	10.9	59	0.9	389.6	389.6	390.6	1
J	1249	6.3	8	6.4	391.1	391.1	391.2	0.1
K	1482	6.8	6.8	5.7	398.9	398.9	398.9	0
L	1491	6.5	8.2	6.8	399.5	399.5	399.5	0
M	1971	12.6	63.7	1.6	424.8	424.8	424.8	0
N	1981	15.6	68.4	0.6	424.9	424.9	424.9	0
O	2284	8.1	7.4	5.2	430.9	430.9	431	0.1
P	2632	10.2	10.1	3.8	436.5	436.5	436.5	0
Q	2643	6.7	7.2	6.5	437.3	437.3	437.3	0
R	2693	12.7	33.3	2.5	440.2	440.2	440.2	0
S	2702	7.5	22.5	1.7	440.3	440.3	440.3	0
T	3109	10	12.6	3.1	442.2	442.2	442.3	0.1
U	3703	13.5	17.1	1.5	444.5	444.5	444.7	0.2
V	4458	10.2	5.9	4.4	450.9	450.9	450.9	0
W	5230	14.8	20.4	1.3	454.2	454.2	454.3	0.1
X	5732	14.7	4.2	3.1	456.5	456.5	456.5	0
Y	5780	8.5	9.4	1.4	456.9	456.9	456.9	0
Z	5792	8.5	9.4	2.3	456.9	456.9	456.9	0
AA	5885	4.5	3.5	3.7	457.6	457.6	457.6	0
AB	5896	5.4	4.9	2.6	457.9	457.9	457.9	0

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

WEST FORK CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
West Fork Canyon Creek								
AC	6493	15.2	13.9	0.9	459.3	459.3	459.3	0
AD	6891	20.1	22.8	0.8	459.6	459.6	459.6	0
AE	6902	18.8	23.9	2.4	459.6	459.5	459.6	0
AF	7405	15.3	47.7	1	461.8	461.8	461.8	0
AG	7417	6.9	15.2	0.9	461.8	461.8	461.8	0
AH	7459	10.1	29	0.4	461.8	461.9	461.8	0
AI	7469	10.6	27.9	0.2	461.8	461.9	461.8	0
AJ	9124	5.4	3.5	1.2	464.4	464.4	464.4	0
AK	9136	15.7	25.5	0.1	464.4	464.4	464.4	0
AL	9736	104.2	198.1	0.1	464.4	464.4	464.4	0
AM	10164	19.7	44.9	0.1	464.4	464.4	464.4	0
AN	10171	16.1	22.2	0.3	464.4	464.4	464.4	0
AO	10210	13.7	27.5	0.3	464.4	464.4	464.4	0
AP	10223	13	30.3	0.1	464.4	464.4	464.4	0
AQ	10341	69.2	147.1	0	464.4	464.4	464.4	0
AR	10625	15.6	23.8	0.1	464.4	464.4	464.4	0

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CARBON RIVER								
A	0	475[5]	2,840	10.7	122.1/122.1/121.9	121.9	121.9	0.0
B	541	800[5]	4,081	7.5	124.0/123.8/124.3	124.3	124.4	0.1
C	2,074	748[5]	2,821	10.8	131.6/132.2/129.2	129.1	129.7	0.6
D	4,179	453[5]	2,455	12.4	140.1/139.9/139.5	139.5	140.2	0.7
E	6,261	353[5]	2,192	13.9	150.1/150.3/ -	150.1	150.0	-0.1[4]
F	8,385	279[5]	2,110	14.4	160.4/160.6/ -	160.4	160.8	0.4
G	10,478	454[5]	3,006	10.1	169.6/170.1/ -	169.6	170.0	0.4
H	12,556	343[5]	2,199	13.8	179.0/178.8/ -	179.0	178.7	-0.3[4]
I	14,676	345[5]	2,577	11.8	188.9/190.2/ -	188.9	189.9	1.0
J	16,133	442[5]	2,651	11.5	195.4/195.5/ -	195.4	195.5	0.1
K	16,903	974[5]	5,154	5.9	198.8/199.5/ -	198.8	199.5	0.7
L	19,036	1,540[5]	4,456	6.8	210.9/211.0/ -	210.9	211.0	0.1
M	20,923	1,127	4,121	7.4	224.6/224.7/ -	224.6	224.6	0.0
N	23,275	750[5]	1,964	9.6	239.4/240.0/ -	239.4	239.4	0.0
O	24,849	455[5]	1,587	9.9	254.6/254.4/ -	253.2	253.3	0.1
P	27,153	911[5]	2,043	7.7	271.0/272.2/ -	270.7	271.0	0.3
Q	29,100	482	1,437	10.9	290.0/289.5/ -	288.0	288.1	0.1
R	30,161	259	624	8.2	299.6/298.8/ -	297.7	297.7	0.0
S	30,735	245[5]	483	10.7	- /305.0/ -	301.5	301.6	0.1
T	30,770	245[5]	653	7.9	- /307.4/ -	302.9	302.9	0.0
U	30,824	271[5]	580	8.9	- /307.7/ -	303.1	303.1	0.0
V	30,844	271[5]	630	8.2	- /307.9/ -	303.4	303.4	0.0
W	31,195	396[5]	1,009	10.4	- /309.9/309.9	307.7	307.7	0.0
X	33,319	329[5]	1,258	11.5	- /331.6/331.6	331.6	331.7	0.1
Y	34,249	343	1,242	11.7	- /340.3/ -	340.1	340.9	0.8
Z	35,439	310[5]	1,139	12.7	353.1/352.9/ -	353.1	352.9	-0.2[4]

[1] Stream Distance in Feet Above Confluence with Puyallup River

[2] Landward of Left Levee/ Riverward of Levees/ Landward of Right Levee

[3] Elevations Computed Without Consideration of Levees

[4] Excessive negative surcharges are a result of local channel hydraulics. Floodway adjustments could not reasonably resolve the excessive values.

[5] Calculated floodway extends into seclusion area

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CARBON RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CARBON RIVER								
AA	37,537	333[6]	1,181	12.3	376.2/376.2/ -	376.2	376.2	0.0
AB	39,770	757[6]	2,124	6.8	404.1/404.2/ -	404.1	404.2	0.1
AC	41,801	417[6]	1,341	10.8	430.4/430.5/ -	430.5	430.5	0.0
AD	43,438	216	1,037	14.0	- /451.5/ -	451.5	451.5	0.0
AE	44,277	214	1,215	11.9	- /459.9/ -	459.7	459.7	0.0

[1]Stream Distance in Feet Above Confluence with Puyallup River [2]Landward of Left Levee/ Riverward of Levees/ Landward of Right Levee [3]Elevations Computed Without Consideration of Levees

[4]Excessive negative surcharges are a result of local channel hydraulics. Floodway adjustments could not reasonably resolve the excessive values.

[5]Slight negative surcharges can be assumed to round to zero. [6]Calculated floodway extends into seclusion area

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CARBON RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CHAMBERS CREEK								
A	8,790	184	214	5.6	63.3	63.3	63.3	0.0
B	9,410	323	412	2.9	71.3	71.3	71.3	0.0
C	10,120	185	305	3.9	78.4	78.4	78.4	0.0
D	10,750	143	380	3.2	83.9	83.9	83.9	0.0
E	11,350	93	175	6.9	90.4	90.4	90.4	0.0
F	11,970	234	418	2.9	98.8	98.8	98.8	0.0
G	12,600	251	347	3.5	103.9	103.9	103.9	0.0
H	13,330	44	178	6.3	109.5	109.5	109.5	0.0
I	13,890	58	153	6.9	114.0	114.0	114.0	0.0
J	13,950	164	289	3.7	114.9	114.9	114.9	0.0
K	14,120	36	125	8.5	115.8	115.8	115.8	0.0
L	14,180	54	132	8.0	117.2	117.2	117.2	0.0
M	14,830	178	270	3.9	124.2	124.2	124.2	0.0
N	15,460	51	140	7.5	130.2	130.2	130.2	0.0
O	16,190	41	124	8.6	140.6	140.6	140.6	0.0
P	16,780	51	154	6.9	148.6	148.6	148.6	0.0
Q	17,460	28	114	9.3	159.2	159.2	159.2	0.0
R	17,530	43	121	8.7	161.2	161.2	161.2	0.0
S	18,010	115	197	5.8	168.5	168.5	168.5	0.0
T	18,510	45	144	7.4	173.6	173.6	173.6	0.0
U	18,580	46	172	6.2	174.6	174.6	174.6	0.0
V	19,270	72	183	5.8	179.9	179.9	179.9	0.0
W	19,840	38	110	9.6	188.1	188.1	188.1	0.0
X	19,920	46	159	6.7	190.1	190.1	190.1	0.0
Y	20,000	109	176	6.0	190.9	190.9	190.9	0.0
Z	20,640	45	120	8.8	197.1	197.1	197.1	0.0
AA	21,250	47	196	5.4	205.6	205.6	205.6	0.0

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLARKS CREEK								
AH	11,032	91	377	0.8	29.8	29.8	29.9	0.1
AI	11,771	96	481	0.6	29.9	29.9	29.9	0.0
AJ	12,311	111	452	0.6	29.9	29.9	30.0	0.1
AK	12,911	112	411	0.7	30.0	30.0	30.0	0.0
AL	13,754	89	333	0.9	30.1	30.1	30.2	0.1
AM	13,913	84	426	0.7	30.1	30.1	30.2	0.1
AN	13,983	75	460	0.6	30.1	30.1	30.2	0.1
AO	14,092	136	433	0.7	30.2	30.2	30.2	0.0
AP	14,561	142	487	0.6	30.2	30.2	30.2	0.0
AQ	14,996	250	549	0.5	30.2	30.2	30.2	0.0
AR	15,334	81	423	0.7	30.2	30.2	30.2	0.0
AS	15,947	64	283	1.0	30.2	30.2	30.3	0.1
AT	16,093	68	262	1.1	30.2	30.2	30.3	0.1
AU	16,145	73	254	1.2	30.2	30.2	30.3	0.1
AV	16,219	73	323	1.0	30.3	30.3	30.4	0.1
AW	16,363	58	288	1.0	30.3	30.3	30.4	0.1
AX	16,930	94	485	0.6	30.4	30.4	30.4	0.0
AY	17,705	99	226	1.3	30.4	30.4	30.4	0.0
AZ	17,990	61	271	0.7	30.4	30.4	30.5	0.1

[1]Stream Distance in Feet from Confluence with the Puyallup River

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLARKS CREEK (CONTINUED)								
BA	18,513	39	203	0.9	30.5	30.5	30.5	0.0
BB	18,667	63	264	0.7	30.5	30.5	30.5	0.0
BC	18,728	62	325	0.7	30.5	30.5	30.5	0.0
BD	18,787	118	370	0.5	30.5	30.5	30.6	0.1
BE	20,013	201	38	4.6	31.7	31.7	31.7	0.0

[1]Stream Distance in Feet from Confluence with the Puyallup River

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
A	211	46	96	5.3	213.4	213.4	213.4	0.0
B	1,201	25	60	8.5	239.0	239.0	239.5	0.5
C	1,632	26	62	8.2	249.3	249.3	249.7	0.4
D	1,890	29	77	6.6	254.2	254.2	254.8	0.6
E	1,911	25	116	4.4	256.7	256.7	257.2	0.5
F	1,972	26	102	5.0	256.8	256.8	257.4	0.6
G	2,069	24	86	5.9	257.2	257.2	257.7	0.5
H	2,128	17	75	6.7	257.4	257.4	258.1	0.7
I	2,191	16	53	9.5	257.5	257.5	258.2	0.7
J	2,205	19	69	7.2	258.3	258.3	259.2	0.9
K	2,213	27	100	5.0	259.3	259.3	259.9	0.6
L	2,255	40	220	2.3	259.6	259.6	260.3	0.7
M	2,271	41	227	2.2	259.9	259.9	260.4	0.5
N	2,287	41	219	2.3	260.7	260.7	261.2	0.5
O	2,303	43	240	2.1	261.4	261.4	262.0	0.6
P	2,384	52	224	2.2	261.4	261.4	262.0	0.6
Q	2,865	54	194	2.6	261.8	261.8	262.5	0.7
R	3,552	28	93	5.4	263.1	263.1	263.8	0.7
S	4,251	48	172	2.9	265.2	265.2	265.9	0.7
T	4,992	45	144	3.5	266.6	266.6	267.3	0.7
U	5,583	40	165	3.0	267.9	267.9	268.5	0.6
V	6,279	29	161	3.1	268.9	268.9	269.5	0.6
W	6,619	23	108	4.7	269.4	269.4	270.1	0.7
X	6,826	46	162	3.1	270.1	270.1	270.7	0.6
Y	6,845	47	172	2.9	270.2	270.2	270.8	0.6
Z	6,862	44	178	2.8	270.3	270.3	270.8	0.5

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
AA	6,879	38	158	3.2	270.3	270.3	270.8	0.5
AB	6,934	29	128	3.9	270.4	270.4	270.8	0.4
AC	7,032	40	156	3.2	270.6	270.6	271.1	0.5
AD	7,112	39	151	3.3	271.0	271.0	271.4	0.4
AE	7,121	47	175	2.9	271.1	271.1	271.5	0.4
AF	7,167	44	194	2.6	271.2	271.2	271.5	0.3
AG	7,256	37	165	3.0	271.3	271.3	271.6	0.3
AH	7,548	25	110	4.6	271.3	271.3	272.1	0.8
AI	7,768	29	111	4.5	272.4	272.4	272.7	0.3
AJ	8,009	74	266	1.9	273.1	273.1	273.3	0.2
AK	8,196	37	170	3.0	273.2	273.2	273.4	0.2
AL	8,537	26	113	4.4	273.5	273.5	273.9	0.4
AM	8,566	36	162	3.1	273.7	273.7	274.1	0.4
AN	8,631	35	145	3.5	273.8	273.8	274.2	0.4
AO	8,675	32	125	4.0	273.9	273.9	274.2	0.3
AP	9,303	41	181	2.8	275.0	275.0	275.7	0.7
AQ	9,688	36	184	2.7	275.3	275.3	276.1	0.8
AR	9,984	36	196	2.6	275.6	275.6	276.4	0.8
AS	10,413	26	114	4.4	276.3	276.3	276.9	0.6
AT	10,617	62	355	1.4	276.9	276.9	277.6	0.7
AU	10,699	44	277	1.8	277.1	277.1	277.8	0.7
AV	10,903	46	295	1.7	277.3	277.3	278.0	0.7
AW	11,068	52	246	2.0	277.4	277.4	278.2	0.8
AX	11,248	53	314	1.6	277.7	277.7	278.4	0.7
AY	11,381	62	316	1.6	277.9	277.9	278.5	0.6
AZ	11,475	57	328	1.5	278.2	278.2	278.8	0.6

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CLOVER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
BA	11,597	54	321	1.6	278.2	278.2	278.8	0.6
BB	11,726	48	238	2.1	278.2	278.2	278.9	0.7
BC	11,767	61	261	1.9	278.7	278.7	279.4	0.7
BD	11,865	50	229	2.2	278.8	278.8	279.4	0.6
BE	11,976	45	225	2.2	278.9	278.9	279.5	0.6
BF	12,098	50	198	2.5	278.9	278.9	279.5	0.6
BG	12,180	40	139	3.6	279.0	279.0	279.5	0.5
BH	12,395	27	138	3.6	279.5	279.5	279.9	0.4
BI	12,585	31	139	3.6	279.8	279.8	280.1	0.3
BJ	12,806	32	155	3.2	280.1	280.1	280.4	0.3
BK	12,970	31	138	3.6	280.3	280.3	280.5	0.2
BL	12,983	31	140	3.6	280.4	280.4	280.6	0.2
BM	13,178	28	116	4.3	280.7	280.7	280.8	0.1
BN	13,357	44	196	2.6	281.1	281.1	281.2	0.1
BO	13,567	39	179	2.8	281.2	281.2	281.4	0.2
BP	13,764	54	245	2.1	281.4	281.4	281.5	0.1
BQ	13,950	39	164	3.1	281.5	281.5	281.6	0.1
BR	14,205	38	156	3.2	281.7	281.7	281.8	0.1
BS	14,254	39	177	2.8	281.8	281.8	281.9	0.1
BT	14,442	36	141	3.6	281.9	281.9	282.0	0.1
BU	14,651	46	173	2.9	282.3	282.3	282.4	0.1
BV	14,837	33	160	3.1	282.5	282.5	282.6	0.1
BW	14,898	39	197	2.6	282.6	282.6	282.7	0.1
BX	15,089	32	136	3.7	282.7	282.7	282.7	0.0
BY	15,284	35	146	3.4	283.0	283.0	283.0	0.0
BZ	15,496	35	162	3.1	283.3	283.3	283.3	0.0

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
CA	15,673	36	155	3.2	283.4	283.4	283.5	0.1
CB	15,722	35	149	3.4	283.5	283.5	283.5	0.0
CC	15,946	42	180	2.8	283.8	283.8	283.8	0.0
CD	16,133	46	249	2.0	283.9	283.9	283.9	0.0
CE	17,965	55	288	1.7	285.0	285.0	285.0	0.0
CF	18,222	74	508	1.0	285.1	285.1	285.1	0.0
CG	18,399	41	223	2.3	285.0	285.0	285.1	0.1
CH	18,583	42	208	2.4	285.1	285.1	285.1	0.0
CI	18,758	42	202	2.5	285.2	285.2	285.2	0.0
CJ	18,947	42	222	2.3	285.3	285.3	285.3	0.0
CK	19,192	51	233	2.2	285.4	285.4	285.4	0.0
CL	19,373	48	260	1.9	285.5	285.5	285.5	0.0
CM	19,546	39	210	2.4	285.5	285.5	285.5	0.0
CN	19,743	42	254	2.0	285.6	285.6	285.7	0.1
CO	20,005	42	211	2.4	285.7	285.7	285.7	0.0
CP	20,238	44	264	1.9	285.8	285.8	285.8	0.0
CQ	20,487	49	196	2.6	285.9	285.9	285.9	0.0
CR	20,579	93	402	1.3	286.4	286.4	286.4	0.0
CS	20,769	55	453	1.1	286.4	286.4	286.4	0.0
CT	20,971	45	399	1.3	286.4	286.4	286.4	0.0
CU	21,364	42	266	1.9	286.4	286.4	286.5	0.1
CV	22,006	45	291	1.7	286.4	286.4	286.9	0.5
CW	22,867	100	558	0.9	286.4	286.4	287.2	0.8
CX	23,506	130	727	0.7	286.4	286.4	287.4	1.0
CY	23,993	23	48	8.2	286.9	286.9	286.9	0.0
CZ	24,075	29	89	4.5	288.5	288.5	288.5	0.0

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
DA	24,152	29	85	4.7	288.9	288.9	288.8	-0.1
DB	24,182	28	72	5.5	288.9	288.9	288.9	0.0
DC	24,817	33	108	3.7	291.6	291.6	291.6	0.0
DD	25,430	39	151	2.6	292.6	292.6	292.6	0.0
DE	25,454	48	151	2.6	292.6	292.6	292.6	0.0
DF	25,472	32	152	2.6	292.8	292.8	292.8	0.0
DG	25,502	63	175	2.3	292.8	292.8	292.8	0.0
DH	25,580	103	244	1.6	292.9	292.9	292.9	0.0
DI	26,047	31	124	3.2	293.3	293.3	293.3	0.0
DJ	26,072	29	163	2.7	293.4	293.4	293.4	0.0
DK	26,108	31	136	3.0	293.4	293.4	293.4	0.0
DL	26,136	33	131	3.1	293.4	293.4	293.4	0.0
DM	26,956	33	116	3.4	294.7	294.7	294.7	0.0
DN	27,627	31	128	3.1	295.7	295.7	295.8	0.1
DO	27,656	31	153	2.6	295.8	295.8	295.8	0.0
DP	27,693	31	155	2.7	295.8	295.8	295.9	0.1
DQ	27,729	31	132	3.0	295.8	295.8	295.9	0.1
DR	28,257	45	148	2.8	296.5	296.5	296.6	0.1
DS	28,940	71	167	2.4	297.4	297.4	297.7	0.3
DT	29,613	31	82	4.9	298.9	298.9	299.3	0.4
DU	29,643	31	93	4.3	299.2	299.2	299.6	0.4
DV	29,680	31	93	4.3	299.3	299.3	299.7	0.4
DW	29,707	25	75	5.3	299.4	299.4	299.7	0.3
DX	30,243	56	174	3.8	301.6	301.6	302.0	0.4
DY	30,292	38	161	4.2	301.7	301.7	302.1	0.4
DZ	30,352	30	150	5.1	301.9	301.9	302.3	0.4

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
EA	30,374	33	141	5.3	301.9	301.9	302.3	0.4
EB	30,796	40	174	3.8	303.5	303.5	304.0	0.5
EC	31,021	32	140	3.7	303.9	303.9	304.7	0.8
ED	31,054	29	131	3.6	304.1	304.1	304.7	0.6
EE	31,102	24	97	5.3	304.0	304.0	304.7	0.7
EF	31,132	18	72	6.6	304.3	304.3	304.7	0.4
EG	31,237	38	177	2.7	305.2	305.2	305.8	0.6
EH	31,238	38	177	2.7	305.2	305.2	305.8	0.6
EI	31,307	22	95	5.0	305.2	305.2	305.8	0.6
EJ	31,441	75	169	2.2	305.8	305.8	306.4	0.6
EK	31,511	66	154	2.4	305.9	305.9	306.5	0.6
EL	31,556	69	215	1.7	305.9	305.9	306.6	0.7
EM	31,609	35	144	2.6	305.9	305.9	306.7	0.8
EN	31,628	37	122	3.0	305.9	305.9	306.7	0.8
EO	31,842	131	231	1.6	306.1	306.1	307.0	0.9
EP	31,971	173[2]	429	1.6	306.2	306.2	307.1	0.9
EQ	32,015	157[2]	373	1.1	306.4	306.4	307.3	0.9
ER	32,038	174	346	1.9	306.4	306.4	307.3	0.9
ES	32,221	173	396	1.7	306.7	306.7	307.6	0.9
ET	32,369	32	103	6.5	306.6	306.6	307.5	0.9
EU	32,437	33	122	5.5	307.5	307.5	308.3	0.8
EV	32,489	43	126	5.3	307.8	307.8	308.5	0.7
EW	32,891	133	483	1.4	308.6	308.6	309.4	0.8
EX	32,956	117	498	0.5	308.7	308.7	309.5	0.8
EY	33,247	47	99	2.6	308.6	308.6	309.4	0.8
EZ	33,267	17	64	4.0	308.7	308.7	309.4	0.7

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

[2] Width without bridge skew.

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
FA	33,336	16	78	3.3	309.4	309.4	310.1	0.7
FB	33,353	24	98	2.6	309.5	309.5	310.2	0.7
FC	33,501	100	439	0.6	309.5	309.5	310.4	0.9
FD	33,795	66	294	0.9	309.5	309.5	310.4	0.9
FE	34,281	127	376	0.7	309.6	309.6	310.5	0.9
FF	34,347	158	355	0.7	309.6	309.6	310.5	0.9
FG	34,357	146	251	1.0	309.6	309.6	310.5	0.9
FH	34,384	196	459	0.6	311.1	311.1	311.2	0.1
FI	34,397	189	681	0.4	311.1	311.1	311.2	0.1
FJ	34,845	177	484	0.5	311.1	311.1	311.3	0.2
FK	35,522	65	86	3.0	311.4	311.4	311.9	0.5
FL	36,166	117	301	0.8	312.8	312.8	313.7	0.9
FM	37,107	138	211	1.2	314.2	314.2	315.1	0.9
FN	37,248	150	180	1.4	314.7	314.7	315.6	0.9
FO	37,840	177	331	0.8	315.9	315.9	316.8	0.9
FP	37,927	122	191	1.3	316.0	316.0	317.0	1.0
FQ	38,767	98	283	0.9	317.2	317.2	318.0	0.8
FR	38,821	50	148	1.7	317.2	317.2	318.0	0.8
FS	39,550	64	222	1.1	317.5	317.5	318.4	0.9
FT	40,378	50	147	1.7	317.9	317.9	318.7	0.8
FU	40,414	70	202	1.3	318.0	318.0	318.9	0.9
FV	40,466	67	178	1.4	318.1	318.1	318.9	0.8
FW	40,608	31	94	2.7	318.1	318.1	318.9	0.8
FX	40,643	32	105	2.4	318.3	318.3	319.2	0.9
FY	40,710	37	100	2.6	318.4	318.4	319.3	0.9
FZ	40,814	59	101	2.5	318.6	318.6	319.5	0.9

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
GA	40,839	74	144	1.8	319.0	319.0	319.8	0.8
GB	40,910	67	147	1.7	319.2	319.2	319.9	0.7
GC	41,007	65	147	1.7	319.3	319.3	320.0	0.7
GD	41,024	109	230	1.1	319.3	319.3	320.1	0.8
GE	41,159	90	200	1.3	319.3	319.3	320.1	0.8
GF	41,375	106	240	1.1	319.4	319.4	320.2	0.8
GG	41,390	111	206	1.2	319.4	319.4	320.2	0.8
GH	41,655	129	343	0.7	319.4	319.4	320.3	0.9
GI	42,150	138	430	0.6	319.5	319.5	320.4	0.9
GJ	42,177	105	184	1.4	319.4	319.4	320.4	1.0
GK	42,194	76	168	1.5	319.6	319.6	320.6	1.0
GL	42,342	89	246	1.0	319.9	319.9	320.8	0.9
GM	42,971	145	424	0.6	320.0	320.0	321.0	1.0
GN	43,566	154	468	0.5	320.1	320.1	321.1	1.0
GO	43,799	32	121	2.1	320.1	320.1	321.1	1.0
GP	43,816	25	132	2.4	320.2	320.2	321.1	0.9
GQ	43,846	25	101	1.5	320.2	320.2	321.2	1.0
GR	43,865	42	148	1.0	320.3	320.3	321.2	0.9
GS	43,986	42	146	1.0	320.3	320.3	321.2	0.9
GT	44,785	47	154	1.0	320.5	320.5	321.4	0.9
GU	45,401	49	174	0.9	320.6	320.6	321.5	0.9
GV	45,638	36	148	1.0	320.7	320.7	321.5	0.8
GW	45,661	30	112	1.3	320.7	320.7	321.5	0.8
GX	45,688	30	119	1.3	320.7	320.7	321.5	0.8
GY	45,700	42	112	1.3	320.7	320.7	321.5	0.8
GZ	45,739	53	139	1.1	320.8	320.8	321.6	0.8

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
HA	45,762	28	107	1.4	320.8	320.8	321.6	0.8
HB	45,871	38	158	1.0	320.8	320.8	321.7	0.9
HC	46,294	34	102	1.5	320.9	320.9	321.7	0.8
HD	46,323	42	134	1.1	320.9	320.9	321.8	0.9
HE	46,697	80	233	0.6	321.0	321.0	321.9	0.9
HF	47,127	70	142	1.1	321.1	321.1	322.0	0.9
HG	47,143	75	153	1.0	321.1	321.1	322.0	0.9
HH	47,326	100	200	0.7	321.2	321.2	322.1	0.9
HI	47,449	103	173	0.9	321.3	321.3	322.2	0.9
HJ	47,467	96	152	1.0	321.3	321.3	322.2	0.9
HK	47,543	85	193	0.8	321.4	321.4	322.2	0.8
HL	47,640	65	169	0.9	321.4	321.4	322.3	0.9
HM	47,660	60	134	1.1	321.5	321.5	322.3	0.8
HN	48,000	34	93	1.6	322.0	322.0	322.5	0.5
HO	48,397	16	37	4.1	322.8	322.8	323.0	0.2
HP	48,870	48	129	1.2	323.5	323.5	324.0	0.5
HQ	48,953	23	72	2.1	323.5	323.5	324.0	0.5
HR	48,972	21	68	2.2	323.5	323.5	324.0	0.5
HS	48,987	29	74	2.0	323.8	323.8	324.4	0.6
HT	49,007	37	106	1.4	323.9	323.9	324.4	0.5
HU	49,194	52	178	0.8	324.0	324.0	324.5	0.5
HV	49,454	31	124	1.2	324.0	324.0	324.6	0.6
HW	49,481	16	61	2.4	324.0	324.0	324.6	0.6
HX	49,514	15	56	2.7	324.1	324.1	324.6	0.5
HY	49,538	44	155	1.0	324.1	324.1	324.7	0.6
HZ	49,632	55	184	0.8	324.1	324.1	324.7	0.6

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
IA	50,016	56	200	0.7	324.2	324.2	324.8	0.6
IB	50,647	75	211	0.7	324.2	324.2	324.9	0.7
IC	51,276	134	271	0.6	324.3	324.3	325.1	0.8
ID	52,501	20	52	2.9	324.4	324.4	325.4	1.0
IE	53,097	88	183	0.8	325.5	325.5	326.3	0.8
IF	53,707	106	209	0.7	325.7	325.7	326.6	0.9
IG	54,451	103	226	0.7	325.9	325.9	326.9	1.0
IH	55,016	33	98	1.5	326.2	326.2	327.2	1.0
II	55,482	15	37	4.0	327.2	327.2	327.7	0.5
IJ	55,720	47	114	1.8	328.4	328.4	328.7	0.3
IK	55,757	17	41	3.6	328.4	328.4	328.7	0.3
IL	55,801	10	31	1.4	328.4	328.4	328.7	0.3
IM	55,814	34	71	0.6	328.5	328.5	328.7	0.2
IN	56,043	30	86	0.5	328.5	328.5	328.8	0.3
IO	56,454	44	109	0.4	328.6	328.6	328.9	0.3
IP	57,006	35	61	0.7	328.8	328.8	329.0	0.2
IQ	57,218	26	39	1.2	328.9	328.9	329.2	0.3
IR	57,226	18	27	1.7	328.9	328.9	329.2	0.3
IS	57,241	20	32	1.4	329.0	329.0	329.3	0.3
IT	57,270	40	104	0.4	329.1	329.1	329.3	0.2
IU	57,705	46	98	0.4	329.1	329.1	329.4	0.3
IV	57,921	38	93	0.5	329.1	329.1	329.4	0.3
IW	58,540	34	83	0.5	329.2	329.2	329.5	0.3
IX	58,736	23	88	0.6	329.2	329.2	329.5	0.3
IY	58,745	12	92	0.9	329.2	329.2	329.5	0.3
IZ	58,870	17	30	1.5	329.3	329.3	329.7	0.4

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CLOVER CREEK								
JA	58,954	13	37	1.2	329.5	329.5	329.8	0.3
JB	59,111	23	57	0.8	329.5	329.5	330.0	0.5
JC	59,163	23	49	0.9	329.5	329.5	330.0	0.5
JD	59,192	6	7	6.0	329.7	329.7	329.7	0.0
JE	59,206	10	16	2.6	330.4	330.4	330.4	0.0
JF	59,232	20	50	0.9	330.6	330.6	330.6	0.0
JG	59,367	19	51	0.9	330.6	330.6	330.6	0.0
JH	59,808	15	34	1.3	330.6	330.6	330.9	0.3
JI	60,190	28	45	1.0	330.6	330.6	331.4	0.8
JJ	60,480	35	47	0.9	330.8	330.8	331.8	1.0
JK	60,694	16	29	1.5	331.6	331.6	332.1	0.5
JL	60,701	14	27	1.6	331.7	331.7	332.1	0.4
JM	60,835	13	62	1.3	332.4	332.4	332.5	0.1
JN	60,849	27	57	0.8	332.4	332.4	332.6	0.2
JO	61,002	17	33	1.3	332.5	332.5	332.7	0.2
JP	61,106	16	29	1.5	332.5	332.5	332.9	0.4
JQ	61,145	30	70	0.6	332.7	332.7	333.5	0.8
JR	61,307	45	150	0.3	332.7	332.7	333.5	0.8
JS	61,864	26	49	0.9	332.8	332.8	333.7	0.9
JT	62,310	40	34	1.3	336.9	336.9	337.0	0.1
JU	62,756	45	55	0.8	338.7	338.7	338.8	0.1
JV	63,649	71	137	0.3	341.4	341.4	341.6	0.2
JW	64,096	38	70	0.6	341.6	341.6	341.8	0.2
JX	65,562	50	82	0.5	343.3	343.3	344.2	0.9
JY	66,676	40	124	0.4	344.0	344.0	344.8	0.8
JZ	67,455	44	132	0.3	344.2	344.2	345.0	0.8

[1]Stream Distance in Feet Above Confluence with Lake Steilacoom

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PACIFIC AVENUE OVERFLOW								
A	399	N/A	N/A	N/A	302.0	302.0	N/A	N/A
B	537	N/A	N/A	N/A	303.3	303.3	N/A	N/A
C	645	N/A	N/A	N/A	303.3	303.3	N/A	N/A
D	727	N/A	N/A	N/A	304.2	304.2	N/A	N/A
E	787	N/A	N/A	N/A	304.6	304.6	N/A	N/A
F	942	N/A	N/A	N/A	304.8	304.8	N/A	N/A
G	1,172	50	106	1.8	305.4	305.4	306.3	0.9
H	1,297	70	239	0.8	305.5	305.5	306.4	0.9
I	1,437	75	281	1.1	305.6	305.6	306.5	0.9
J	1,481	90	290	1.0	305.6	305.6	306.5	0.9
K	1,528	110	316	1.0	305.6	305.6	306.5	0.9
L	1,733	105	248	1.2	305.7	305.7	306.6	0.9
M	1,901	34	107	2.8	305.9	305.9	306.9	1.0

[1]Stream Distance in Feet Above Confluence With Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CLOVER CREEK OVERFLOW - PACIFIC AVENUE

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CRESCENT CREEK								
A	0	-	-	-	-	-	-	-
B	153	147	1,605	0.7	15.8	15.8[2]	15.8	0.0
C	586	100	739	0.8	15.8	15.8[2]	15.8	0.0
D	1,083	115	135	4.3	15.7	15.7[2]	15.7	0.0
E	1,955	16	66	8.7	27.0	27.0	27.7	0.7
F	2,120	49	132	4.4	29.1	29.1	29.6	0.5
G	2,146	24	165	3.5	31.8	31.8	32.8	1.0
H	2,227	27	162	3.6	32.0	32.0	33.0	1.0
I	2,476	30	74	7.8	33.6	33.6	33.7	0.1
J	2,737	15	67	8.7	38.5	38.5	38.8	0.3
K	2,807	15	84	6.9	39.8	39.8	40.5	0.7
L	2,822	15	93	6.3	40.5	40.5	41.1	0.6
M	2,857	15	96	6.0	41.2	41.2	41.6	0.4
N	3,418	59	160	3.6	50.2	50.2	50.3	0.1
O	3,765	29	172	3.4	52.3	52.3	52.4	0.1
P	3,859	45	75	7.7	51.5	51.5	52.0	0.5
Q	3,891	45	228	2.6	56.5	56.5	56.7	0.2
R	4,220	48	157	3.7	56.9	56.9	57.1	0.2
S	4,280	49	135	4.3	57.2	57.2	57.3	0.1
T	4,298	49	162	3.6	57.8	57.8	57.9	0.1
U	4,327	25	111	5.3	57.8	57.8	57.9	0.1
V	4,749	26	77	7.5	60.6	60.6	60.6	0.0
W	4,851	101	313	0.9	61.9	61.9	62.0	0.1
X	4,910	107	277	1.0	63.8	63.8	63.8	0.0
Y	5,123	50	146	3.1	64.2	64.2	64.6	0.4
Z	5,362	35	91	4.9	65.5	65.5	66.4	0.9

[1]Stream Distance in Feet from Gig Harbor

[2]Elevations Computed Without Consideration of Storm Surge Effects from Gig Harbor

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CRESCENT CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CRESCENT CREEK								
AA	5,520	35	116	3.9	68.0	68.0	68.0	0.0
AB	5,536	35	158	2.9	68.7	68.7	69.2	0.5
AC	5,687	41	186	2.4	69.0	69.0	69.7	0.7
AD	5,709	41	196	2.3	69.2	69.2	69.9	0.7
AE	5,888	22	84	5.4	69.7	69.7	70.1	0.4
AF	5,918	30	143	3.1	71.2	71.2	71.5	0.3
AG	6,000	22	106	4.3	71.4	71.4	71.8	0.4
AH	6,343	34	97	4.6	73.3	73.3	73.7	0.4
AI	6,423	34	98	5.1	74.1	74.1	74.3	0.2
AJ	6,450	34	120	3.7	74.8	74.8	75.0	0.2
AK	6,622	28	91	4.9	75.4	75.4	75.6	0.2
AL	6,640	28	104	4.3	75.4	75.4	76.1	0.7
AM	6,706	28	110	4.1	76.0	76.0	76.3	0.3
AN	6,962	48	179	2.5	77.1	77.1	77.4	0.3
AO	6,976	53	228	2.0	77.5	77.5	78.1	0.6
AP	7,118	54	159	2.8	77.7	77.7	78.2	0.5
AQ	7,133	54	166	2.7	77.4	77.4	78.4	1.0
AR	7,154	54	174	2.6	78.0	78.0	78.5	0.5
AS	7,480	50	169	2.7	78.5	78.5	79.3	0.8
AT	7,645	27	85	5.3	79.7	79.7	79.8	0.1
AU	7,666	27	135	3.3	80.9	80.9	81.7	0.8
AV	7,748	20	93	4.9	80.8	80.8	81.8	1.0
AW	7,992	34	156	2.9	82.5	82.5	83.5	1.0
AX	8,054	34	162	1.5	83.1	83.1	83.9	0.8
AY	8,339	37	164	1.5	83.1	83.1	84.1	1.0
AZ	8,361	33	121	2.0	84.0	84.0	84.5	0.5

[1]Stream Distance in Feet from Gig Harbor

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CRESCENT CREEK								
BA	9,170	40	76	3.2	86.7	86.7	87.3	0.6
BB	9,960	23	100	2.4	89.2	89.2	89.3	0.1
BC	10,073	22	33	7.3	90.9	90.9	90.9	0.0
BD	10,123	31	175	1.4	96.9	96.9	97.9	1.0
BE	10,296	17	77	3.1	97.1	97.1	98.1	1.0
BF	10,793	60	52	4.7	101.9	101.9	101.9	0.0
BG	11,880	51	122	2.0	108.7	108.7	109.4	0.7
BH	12,282	40	35	6.8	119.9	119.9	119.9	0.0
BI	12,308	40	226	1.1	124.6	124.6	125.1	0.5
BJ	12,396	34	162	1.5	124.5	124.5	125.1	0.6
BK	12,716	40	34	7.0	127.0	127.0	127.0	0.0
BL	12,813	21	50	5.1	129.2	129.2	129.2	0.0
BM	12,843	36	225	1.8	134.6	134.6	134.6	0.0
BN	12,961	30	99	2.4	134.6	134.6	134.6	0.0
BO	13,052	35	68	3.5	134.8	134.8	134.8	0.0
BP	13,077	35	205	1.2	138.6	138.6	138.7	0.1
BQ	13,120	23	115	2.1	138.6	138.6	138.7	0.1
BR	13,357	19	31	7.7	145.5	145.5	145.5	0.0
BS	13,912	36	66	3.7	156.1	156.1	156.1	0.0
BT	14,422	28	85	2.8	158.6	158.6	158.6	0.0
BU	14,592	46	35	6.9	159.9	159.9	159.9	0.0
BV	14,662	46	265	0.9	166.1	166.1	166.3	0.2
BW	15,323	15	43	5.6	166.1	166.1	166.3	0.2
BX	15,407	35	50	4.8	167.1	167.1	167.2	0.1
BY	15,455	35	154	1.6	170.2	170.2	171.1	0.9
BZ	16,322	80	160	1.5	172.0	172.0	172.4	0.4

[1]Stream Distance in Feet from Gig Harbor

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CRESCENT CREEK								
CA	17,305	85	482	0.3	172.3	172.3	172.8	0.5
CB	17,380	85[2]	498	0.3	172.5	172.5	173	0.5
SPLIT-FLOW REACH								
A	4,750	26	77	7.6	60.6	60.6	60.6	0.0
B	4,972	17	48	3.6	63.3	63.3	63.3	0.0
C	5,033	13	49	3.5	63.5	63.5	63.5	0.0
D	5,091	38	114	1.5	63.8	63.8	63.8	0.0

[1]Stream Distance in Feet from Gig Harbor

[2] Floodway not mapped in static BFE area.

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CRESCENT CREEK- SPLIT FLOW REACH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Diru Creek								
A	0	3.9	11.4	8.6	328.5	328.5	328.6	0.1
B	75	6.9	75.1	2	334.5	334.5	334.9	0.4
C	118	19.3	37.7	2.1	334.6	334.6	335	0.4
D	223	15.1	16.1	4.8	336.5	336.5	336.7	0.2
E	562	17.7	22	3.6	342.4	342.4	343.1	0.7
F	754	14	26	3	345.1	345.1	346.3	1
G	931	8.3	13	6	348.6	348.6	349.2	0.7
H	1059	10.7	21.5	3.6	351.4	351.4	352.5	1
I	1294	10.2	17.2	4.5	355.6	355.6	356.5	0.9
J	1331	8	20.7	6.6	357.5	357.5	357.6	0.1
K	1406	8	45.7	3.7	360.1	360.1	360.2	0.1
L	1594	8.9	21.4	3.7	361.3	361.3	361.8	0.5
M	1801	8.5	11.8	6.6	366.3	366.3	366.7	0.4
N	2036	9.5	26.8	2.9	369.7	369.7	370.7	1
O	2069	7.5	18.3	4.3	369.9	369.9	370.9	1
P	2155	8	37.7	3.6	371.9	371.9	372	0.1
Q	2216	8.6	10.4	6.3	373.4	373.4	374.6	0.7
R	2437	8.1	16.6	3.9	380.2	380.2	381.3	1
S	2935	13	23.7	2.8	386	386	386.6	0.5
T	3194	14.1	18	3.6	389	389	389.4	0.3
U	3546	12.4	24.6	2.7	392.4	392.4	393.1	0.6
V	3786	14.3	18.4	3.5	394.7	394.7	395.5	0.8
W	4256	15.3	23.1	2.8	396.2	396.2	396.7	0.5
X	4351	6.9	8.2	6.2	398.7	398.7	398.5	-0.2
Y	4367	6	14.8	4.1	399	399	399.3	0.3
Z	4423	20.2	40.5	1.3	400.8	400.8	401.2	0.3
AA	4610	12.8	25.9	2	401.1	401.1	401.4	0.4
AB	4641	16.4	35.1	1.5	401.5	401.5	401.8	0.3

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

DIRU CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Diru Creek								
AC	4790	9.9	21.9	2.4	401.8	401.8	402.1	0.3
AD	4826	13.4	30.3	2	402.2	402.2	402.7	0.6
AE	4853	10.1	22.3	2.3	402.3	402.3	402.8	0.6
AF	4878	13.4	30.3	2	402.2	402.2	402.7	0.6
AG	4970	10.1	22.3	2.3	402.3	402.3	402.8	0.6
AH	4998	9.2	21.7	2.4	402.9	402.9	403.2	0.4
AI	5035	9.5	25.5	2	403.1	403.1	403.5	0.4
AJ	5062	9.5	24.4	2.1	403.2	403.2	404	0.7
AK	5117	11.4	28.7	1.8	403.3	403.3	404.1	0.8
AL	5202	13.2	34.3	1.5	403.6	403.6	404.3	0.8
AM	5228	6	18	3	403.7	403.7	404.4	0.7
AN	5254	12.5	24.9	2.1	404.3	404.3	404.8	0.5
AO	5413	11	24.1	2.1	404.4	404.4	404.9	0.5
AP	5464	14.9	31.8	1.6	404.9	404.9	405.5	0.6
AQ	5509	7.6	19.3	2.7	405.3	405.3	405.9	0.6
AR	5694	17.1	30.6	1.7	405.5	405.5	406.2	0.7
AS	5782	52	84.2	0.6	405.5	405.5	406.3	0.8
AT	5832	28	44.7	1.1	405.6	405.6	406.5	1
AU	5872	19	40.6	1.3	406.2	406.2	406.8	0.7
AV	5945	8.4	23.3	2.2	406.2	406.2	406.9	0.8
AW	6216	4.8	13.1	3.9	406.2	406.2	407.1	0.9
AX	6460	12	31.8	1.6	407.1	407.1	407.9	0.8
AY	6476	63.6	81.7	0.6	407	407	408	1
AZ	6500	23.7	40.8	1.3	407.3	407.3	408	0.7
BA	6695	16.1	36	1.4	407.5	407.5	408.2	0.7
BB	6744	11.7	16.6	3.1	407.6	407.6	408.2	0.7
BC	6760	7.7	22.1	2.3	408.5	408.5	409.3	0.8
BD	6785	8.3	16.4	3.1	408.4	408.4	409.4	1

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

DIRU CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Diru Creek								
BE	6948	8.2	19.8	2.6	410	410	410.6	0.6
BF	7254	6.7	14.6	3.5	411.7	411.7	412.7	1
BG	7300	5	19.2	4.1	412.5	412.5	413.1	0.5
BH	7348	5	35.3	1	413.6	413.6	414.2	0.6
BI	7496	5.2	3.7	4.8	417	417	417	0
BJ	7568	4.3	3.4	5.1	421	421	421	0
BK	8099	4.8	6.7	2.6	434.6	434.6	435.1	0.6
BL	8146	5	8.7	2	435.4	435.4	435.6	0.2
BM	8214	9.1	17	1	437.3	437.3	437.6	0.3
BN	8272	3.4	3.4	5.5	437.6	437.6	437.7	0
BO	8297	6.1	12	1.5	439.1	439.1	439.6	0.5
BP	8387	7.4	9.2	1.9	439.4	439.4	439.8	0.4
BQ	8887	8.1	20.6	0.9	448.4	448.4	449.1	0.7
BR	9089	11.2	38.1	0.5	448.5	448.5	449.1	0.6
BS	9141	5	27.9	1.2	448.5	448.5	449.1	0.7
BT	9349	8	25.9	0.8	449.1	449.1	449.8	0.6
BU	9390	16.1	18.7	0.5	449.2	449.2	449.8	0.6
BV	9652	5.9	5.1	1.9	450.7	450.7	450.7	0
BW	9964	6.9	9	1.1	452.2	452.2	453.2	0.9
BX	10335	5.5	12.4	0.8	452.9	452.9	453.6	0.8
BY	10371	7.1	56.6	0.3	452.9	452.9	453.7	0.8
BZ	10432	9	85.8	0.2	453.2	453.2	453.9	0.8
CA	10457	13.1	28.2	0.4	453.2	453.2	453.9	0.8
CB	11106	16.7	21.3	1.2	453.6	453.6	454.2	0.6
CC	11922	482	281.1	0.1	454	454	454.3	0.3
CD	12614	455.9	343.9	0.1	454	454	454.3	0.3
CE	13209	340.5	285.1	0.1	454	454	454.3	0.3
CF	13866	250.7	226.5	0.1	454.1	454.1	454.3	0.3

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Diru Creek								
CG	14456	87.2	85	0.3	454.1	454.1	454.4	0.3
CH	14697	1.9	3.4	7.6	454.2	454.2	454.7	0.5
CI	15150	8.4	15.8	1.7	458.2	458.2	459.3	1
CJ	15518	8.5	12.2	2.1	460.1	460.1	460.6	0.5
CK	16022	17.5	7.1	3.6	468.5	468.5	468.7	0.2

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

DIRU CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
East Fork of Clear Creek								
A	0	14	23.8	3.2	351.5	351.5	351.5	0
B	497	6.6	17.3	4.4	356.4	356.4	356.7	0.3
C	775	18.6	24.8	3.1	359.9	359.9	360.1	0.2
D	818	8	33.5	2.9	360.2	360.2	360.4	0.2
E	857	18.3	73.3	1	361.5	361.5	362	0.5
F	897	26	198.6	0.4	361.5	361.5	362.1	0.6
G	1145	33.8	101.7	0.8	361.6	361.6	362.1	0.5
H	1600	27.4	31	2.5	363.7	363.7	363.7	0
I	2157	17.4	22	3.5	368.9	368.9	368.9	0
J	2242	5.7	10.1	7.6	371.5	371.5	371.5	0
K	3626	12	79.9	1.7	380.1	380.1	380.1	0
L	3676	8.4	24.3	3.2	380.1	380.1	380.1	0
M	3927	7.9	16.3	4.7	383.6	383.6	383.6	0
N	4052	9.5	17.9	4.3	385.7	385.7	385.7	0
O	4113	14	70.4	1.5	386.5	386.5	386.5	0
P	4299	9.8	18.1	4.2	387.1	387.1	387.1	0
Q	4949	11.5	23.3	3.3	393.8	393.8	394	0.2
R	5236	8.1	16.6	4.6	398.6	398.6	398.6	0
S	5481	8.8	19.9	3.8	403.2	403.2	403.2	0
T	5788	13.4	20.2	3.8	406.7	406.7	406.7	0
U	6723	14.6	21.8	2.7	415.8	415.8	416	0.2
V	6810	40.8	67.9	0.9	416	416	416.3	0.3
W	7393	22.8	24.1	2.5	419.9	419.9	419.9	0
X	7694	7.7	13.6	2.1	421.4	421.4	421.9	0.5
Y	8055	10.2	14.3	2	423.1	423.1	423.5	0.4
Z	8104	4	7.8	4.8	423.7	423.7	423.8	0.1
AA	8144	17.1	70.8	0.4	427.1	427.1	427.4	0.3
AB	8197	12.4	32.3	0.9	427.1	427.1	427.4	0.3

[1]Stream Distance in Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY[2] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
East Fork of Clear Creek								
AC	8345	22.7	13.9	2.1	427.7	427.7	427.7	0
AD	8696	14.1	18.1	1.6	429.6	429.6	429.9	0.3
AE	9153	17.2	14.3	2	433	433	433.1	0.1
AF	9395	13.6	12.8	2.3	435	435	435.1	0.1
AG	9454	7.1	7.4	3.9	435.7	435.7	435.8	0.1
AH	9481	2	5.3	6.9	436.4	436.4	436.4	0
AI	9508	7.4	24.4	0.9	437.9	437.9	438.3	0.4
AJ	9561	9.6	20	1.1	437.9	437.9	438.3	0.4
AK	9884	8	8.1	2.7	440.8	440.8	440.9	0.1
AL	10416	6.5	8.7	2.5	446.2	446.2	446.4	0.2
AM	10439	6	11.3	2.1	446.4	446.4	446.6	0.2
AN	10461	6	21.2	1.4	447.3	447.3	447.5	0.2
AO	10493	11.6	23.8	0.9	447.4	447.4	447.6	0.2
AP	10513	11.6	26.9	0.8	447.8	447.8	448.1	0.3
AQ	10628	12.2	26	0.9	447.9	447.9	448.1	0.2
AR	10946	11.3	13.8	1.6	448.3	448.3	448.4	0.1
AS	11376	6.9	9.4	2.4	451	451	451	0
AT	11446	5.4	8.5	2.6	451.5	451.5	451.5	0
AU	11491	9.9	12	1.9	451.9	451.9	451.9	0
AV	11717	8.8	10.8	1.3	452.6	452.6	452.6	0
AW	11810	4	3.4	4.8	453.2	453.2	453.2	0
AX	12959	4[2]	55.8	0.5	461.9	461.9	461.9	0

[1]Stream Distance in Feet Above Mouth
[2] Floodway contained in channel.

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
West Stem of East Fork Clear Creek								
AY	267	24.7	13.9	2.5	424.6	424.6	424.7	0.1
AZ	534	13	15.3	2.3	427.1	427.1	427.1	0
BA	622	6	10.3	4	427.9	427.9	427.9	0
BB	640	6	15.9	2.8	428.6	428.6	428.6	0
BC	752	6	27.2	1.9	428.9	428.9	428.9	0
BD	797	18.4	80.8	0.4	430.5	430.5	430.6	0.1
BE	872	28.3	70.4	0.5	430.5	430.5	430.6	0.1
BF	1291	11.9	13.5	2.6	432.7	432.7	432.8	0.2
BG	1919	14	14.4	2.4	438.3	438.3	438.6	0.3
BH	2188	79.5	109.6	0.3	438.6	438.6	438.9	0.3
BI	2472	7.7	4.9	4.6	439	439	438.9	-0.1
BJ	2948	6.6	8.9	2.5	443.7	443.7	443.7	0
BK	3423	9.4	10.4	2.2	446.8	446.8	446.8	0
BL	3736	9.7	10.2	2.2	448.9	448.9	448.9	0
BM	3822	6	18.5	2.2	449.2	449.2	449.2	0
BN	3896	6	12.4	2.1	450.1	450.1	450.1	0
BO	3961	10.8	15.1	1.5	450.3	450.3	450.3	0
BP	4223	4	27.5	1.2	450.5	450.5	450.5	0
BQ	4241	5	47.6	0.8	450.8	450.8	450.8	0
BR	4610	22.5	12	1.2	451	451	451.1	0.1
BS	4998	3.3	5.9	2.5	452.9	452.9	453.1	0.3

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

WEST STEM OF CLEAR CREEK EAST FORK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
FENNEL CREEK								
A	528	25	115	6.3	100.0	94.3[2]	95.2	0.9
B	827	30	135	5.3	102.0	95.9[2]	96.9	1.0
C	1,327	30	110	6.5	104.0	99.9[2]	100.1	0.2
D	1,883	145	131	5.5	104.5	104.5[2]	105.5	1.0
E	1,960	82	98	7.4	107.5	107.5	108.1	0.6
F	2,019	70	159	4.5	108.4	108.4	109.2	0.8
G	2,030	76	180	4.0	108.4	108.4	109.3	0.9
H	2,167	44	139	5.2	108.9	108.9	109.9	1.0
I	2,329	70	193	3.7	110.2	110.2	110.8	0.6
J	2,496	47	94	7.7	112.6	112.6	112.7	0.1
K	2,698	43	89	8.1	116.8	116.8	116.8	0.0
L	3,034	46	134	5.4	120.7	120.7	120.9	0.2
M	3,261	58	83	8.7	123.9	123.9	123.9	0.0
N	3,543	89	144	5.0	130.3	130.3	130.3	0.0
O	4,261	51	95	7.6	146.8	146.8	146.8	0.0
P	5,309	60	122	5.9	170.5	170.5	170.5	0.0
Q	6,328	42	96	7.5	194.6	194.6	194.7	0.1
R	7,305	43	104	6.9	218.9	218.9	219.0	0.1
S	8,776	27	80	9.0	257.0	257.0	257.1	0.1
T	9,142	21	108	6.6	262.9	262.9	263.6	0.7
U	9,517	96	130	5.5	270.9	270.9	270.9	0.0
V	10,001	49	94	7.6	288.9	288.9	288.9	0.0
W	10,434	37	83	8.6	338.4	338.4	338.4	0.0
X	10,501	15	50	14.1	386.2	386.2	386.2	0.0
Y	10,631	15	91	7.7	393.4	393.4	393.4	0.0
Z	10,734	34	263	2.7	394.4	394.4	394.5	0.1

[1]Stream Distance in Feet Above the Confluence with Puyallup River

[2]Elevations Computed Without Consideration of Backwater Effects from Puyallup River

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

FENNEL CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
FENNEL CREEK								
AA	11,301	81	113	6.2	408.8	408.8	408.8	0.0
AB	11,911	50	135	5.2	417.6	417.6	418.0	0.4
AC	12,595	25	100	7.0	426.5	426.5	427.1	0.6
AD	13,034	26	112	6.3	431.5	431.5	432.1	0.6
AE	13,979	34	119	5.9	440.0	440.0	440.4	0.4
AF	14,538	43	156	4.5	444.1	444.1	444.6	0.5
AG	15,354	27	122	5.7	449.4	449.4	450.3	0.9
AH	16,276	37	180	3.9	455.0	455.0	456.0	1.0
AI	16,928	48	214	3.3	457.8	457.8	458.4	0.6
AJ	18,014	39	140	5.0	463.3	463.3	463.8	0.5
AK	18,763	26	127	5.5	467.8	467.8	468.6	0.8
AL	19,759	26	155	4.5	472.6	472.6	473.4	0.8
AM	19,777	24	70	7.3	472.5	472.5	473.4	0.9
AN	19,968	30	47	10.9	473.2	473.2	473.2	0.0
AO	20,010	53	283	1.8	475.2	475.2	475.2	0.0
AP	20,720	26	135	3.8	475.6	475.6	476.2	0.6
AQ	21,521	25	118	4.4	478.2	478.2	479.2	1.0
AR	21,972	32	116	4.4	481.3	481.3	481.7	0.4
AS	21,997	16	77	6.7	481.3	481.3	481.7	0.4
AT	22,072	36	89	5.7	483.3	483.3	483.6	0.3
AU	22,230	20	128	4.0	483.9	483.9	484.3	0.4
AV	22,537	52	266	1.9	484.0	484.0	484.8	0.8
AW	23,001	36	157	3.3	484.4	484.4	485.4	1.0
AX	23,730	64	209	2.5	486.0	486.0	486.8	0.8
AY	24,574	57	139	2.5	488.4	488.4	488.7	0.3
AZ	25,561	40	104	3.4	492.0	492.0	492.7	0.7

[1]Stream Distance in Feet Above the Confluence with Puyallup River

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
FENNEL CREEK								
BA	26,682	55	154	2.3	496.5	496.5	497.5	1.0
BB	27,618	65	163	2.2	500.2	500.2	501.1	0.9
BC	28,071	80	150	2.3	502.3	502.3	503.3	1.0
BD	28,252	217	427	0.8	502.9	502.9	503.9	1.0
BE	28,277	153	276	1.3	503.0	503.0	503.9	0.9
BF	28,345	20	98	3.6	505.2	505.2	505.5	0.3
BG	28,545	70	290	1.2	505.2	505.2	506.2	1.0

[1]Stream Distance in Feet Above the Confluence with Puyallup River

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

FENNEL CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HYLEBOS CREEK								
Z	10,010	41	202	1.5	16.8	16.8	16.9	0.1
AA	10,540	33	196	1.6	16.9	16.9	17.1	0.2
AB	11,080	42	198	1.6	16.9	16.9	17.1	0.2
AC	11,310	34	200	1.6	17.0	17.0	17.3	0.3
AD	11,670	40	202	1.5	17.1	17.1	17.4	0.3
AE	12,090	24	104	3.0	17.1	17.1	17.7	0.6
AF	12,670	24	121	2.6	17.9	17.9	18.4	0.5
AG	12,850	27	125	2.5	18.0	18.0	18.6	0.6
AH	13,320	27	102	1.2	18.0	18.0	18.9	0.9
AI	13,820	30	89	1.4	18.0	18.0	19.0	1.0
AJ	13,900	32	103	1.2	18.7	18.7	19.7	1.0
AK	14,640	16	34	3.6	20.0	20.0	20.7	0.7
AL	15,350	20	46	2.6	23.2	23.2	23.8	0.6

[1]Stream Distance in Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HYLESBOS CREEK TRIBUTARY								
A	190	33	148	1.5	18.0	18.0	18.8	0.8
B	610	50	175	1.3	18.0	18.0	18.9	0.9
C	1,180	40	120	1.8	18.2	18.2	19.1	0.9
D	1,850	31	68	3.2	20.2	20.2	20.3	0.1
E	1,930	24	189	1.2	25.7	25.7	25.7	0.0
F	2,320	27	162	1.4	25.7	25.7	25.8	0.1

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LACAMAS CREEK								
A	0	56	199	4.1	324.0	324.0	325.0	1.0
B	678	100	270	3.0	329.8	329.8	330.8	1.0
C	850	50	164	3.3	331.8	331.8	332.8	1.0
D	878	110	287	1.9	332.5	332.5	333.1	0.6
E	1,301	180	285	2.1	334.3	334.3	334.6	0.3
F	1,376	33	151	3.9	336.4	336.4	336.5	0.1
G	1,423	54	193	4.2	336.7	336.7	336.7	0.0
H	1,772	32	129	6.3	339.1	339.1	339.4	0.3
I	1,806	48	152	5.4	339.3	339.3	339.8	0.5
J	1,831	48	172	4.7	340.2	340.2	340.3	0.1
K	1,908	83	377	2.2	340.6	340.6	340.8	0.2
L	2,468	82	219	3.7	341.2	341.2	342.2	1.0
M	2,507	82	374	2.2	343.9	343.9	344.3	0.4
N	3,326	245	753	1.1	344.2	344.2	345.2	1.0
O	3,741	220	219	3.7	346.7	346.7	346.7	0.0
P	5,565	155	389	2.1	354.5	354.5	355.5	1.0
Q	6,263	95	212	3.8	356.8	356.8	357.8	1.0
R	7,452	108	295	2.8	362.4	362.4	363.3	0.9
S	8,946	32	129	6.3	369.1	369.1	369.9	0.8
T	8,998	32	163	5.0	370.8	370.8	371.0	0.2
U	9,668	360	749	1.1	372.0	372.0	373.0	1.0
V	10,260	211	604	1.4	373.3	373.3	373.9	0.6
W	10,873	142	339	2.4	374.4	374.4	375.3	0.9
X	11,522	105	276	3.0	377.7	377.7	378.6	0.9
Y	11,857	41	180	4.5	379.4	379.4	380.2	0.8
Z	12,227	37	185	4.9	380.8	380.8	381.4	0.6

[1]Stream Distance in Feet Above Confluence with Muck Lake

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LACAMAS CREEK								
AA	12,262	32	176	4.9	381.1	381.1	382.0	0.9
AB	12,466	70	368	2.2	382.2	382.2	382.9	0.7
AC	13,502	81	306	2.7	384.9	384.9	385.7	0.8
AD	14,045	46	220	3.7	386.6	386.6	386.9	0.3
AE	14,066	46	239	3.4	387.0	387.0	387.3	0.3
AF	14,537	80	317	2.6	388.2	388.2	388.4	0.2
AG	15,035	75	365	2.2	389.6	389.6	389.7	0.1
AH	15,064	48	225	3.6	389.6	389.6	389.7	0.1
AI	15,081	48	251	3.2	390.2	390.2	390.2	0.0
AJ	15,113	63	283	2.9	390.4	390.4	390.4	0.0
AK	15,223	58	268	3.2	390.8	390.8	390.8	0.0
AL	15,302	68	288	3.8	391.0	391.0	391.0	0.0
AM	15,346	68	311	3.6	391.4	391.4	391.4	0.0
AN	15,418	98	433	1.9	391.6	391.6	391.6	0.0
AO	15,773	96	367	2.2	391.8	391.8	391.8	0.0
AP	16,230	82	378	1.7	392.0	392.0	392.1	0.1
AQ	16,929	51	337	1.9	392.1	392.1	392.4	0.3
AR	17,618	49	326	1.9	392.4	392.4	392.8	0.4
AS	18,206	52	372	1.7	392.6	392.6	393.1	0.5
AT	18,868	52	369	1.7	392.7	392.7	393.4	0.7
AU	19,321	64	428	1.5	392.8	392.8	393.6	0.8
AV	19,752	65	372	1.7	392.9	392.9	393.8	0.9
AW	20,165	105	433	1.5	393.0	393.0	394.0	1.0
AX	20,180	100	464	1.4	393.5	393.5	394.4	0.9
AY	21,577	430	1150	0.5	393.8	393.8	394.8	1.0
AZ	22,176	336	826	0.8	394.0	394.0	394.9	0.9

[1]Stream Distance in Feet Above Confluence with Muck Lake

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LACAMAS CREEK								
BA	22,197	336	827	0.8	394.0	394.0	394.9	0.9
BB	22,591	256	547	1.1	394.1	394.1	395.1	1.0
BC	23,580	207	291	2.2	395.6	395.6	396.6	1.0
BD	23,595	207	311	2.0	395.9	395.9	396.7	0.8
BE	25,255	60	255	2.5	399.5	399.5	400.0	0.5
BF	25,958	58	161	3.6	401.0	401.0	401.4	0.4
BG	25,976	58	201	2.9	401.5	401.5	402.4	0.9
BH	26,606	39	146	4.0	403.2	403.2	403.7	0.5
BI	27,184	28	137	4.2	405.2	405.2	405.6	0.4
BJ	27,953	26	105	5.5	408.1	408.1	408.9	0.8
BK	28,703	77	289	2.0	410.1	410.1	411.1	1.0
BL	29,478	235	628	0.9	410.7	410.7	411.7	1.0
BM	30,219	40	87	6.6	411.6	411.6	412.3	0.7
BN	30,259	13	85	11.3	413.1	413.1	413.1	0.0
BO	30,299	249	890	0.7	419.9	419.9	419.9	0.0
BP	30,922	84	200	2.9	420.1	420.1	420.1	0.0
BQ	31,422	60	98	5.9	423.3	423.3	423.3	0.0
BR	31,822	25	146	4.0	425.7	425.7	426.4	0.7
BS	32,379	50	220	2.6	427.0	427.0	427.9	0.9
BT	32,442	95	238	2.4	427.0	427.0	428.0	1.0
BU	32,501	17	224	2.6	433.8	433.8	434.6	0.8
BV	32,608	60	593	1.0	433.8	433.8	434.7	0.9
BW	33,055	60	633	0.9	433.9	433.9	434.8	0.9
BX	33,588	31	277	3.7	433.8	433.8	434.7	0.9
BY	33,625	31	284	2.1	435.4	435.4	435.4	0.0
BZ	33,668	27	263	2.2	435.4	435.4	435.4	0.0

[1]Stream Distance in Feet Above Confluence with Muck Lake

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LACAMAS CREEK								
CA	34,314	23	214	2.7	435.5	435.5	435.9	0.4
CB	34,814	70	384	1.5	435.6	435.6	436.4	0.8
CC	35,235	116	225	2.6	435.9	435.9	436.8	0.9
CD	35,432	353	470	0.6	437.3	437.3	437.4	0.1
CE	35,904	110	56	5.2	439.0	439.0	439.0	0.0
CF	36,506	24	77	3.8	444.1	444.1	444.2	0.1
CG	36,539	31	97	3.4	444.2	444.2	444.4	0.2
CH	36,582	31	103	3.2	444.4	444.4	444.6	0.2
CI	36,706	27	116	2.5	444.7	444.7	445.0	0.3
CJ	37,377	120	368	0.8	444.8	444.8	445.5	0.7
CK	37,992	325	565	0.5	444.8	444.8	445.7	0.9
CL	38,517	29	41	7.1	447.1	447.1	447.1	0.0
CM	38,936	10	41	7.0	454.8	454.8	454.8	0.0
CN	39,302	22	65	4.4	457.1	457.1	457.4	0.3
CO	39,539	12	47	6.2	457.8	457.8	458.5	0.7
CP	39,563	20	75	3.9	458.1	458.1	458.7	0.6
CQ	39,678	35	158	1.8	458.3	458.3	459.2	0.9
CR	39,803	30	132	2.2	458.4	458.4	459.3	0.9
CS	39,852	30	142	2.0	459.6	459.6	459.7	0.1
CT	39,970	21	77	3.8	459.6	459.6	459.7	0.1
CU	39,995	21	85	3.4	459.7	459.7	460.1	0.4
CV	40,671	210	343	0.8	460.7	460.7	461.7	1.0
CW	41,189	20	73	4.0	462.2	462.2	462.5	0.3
CX	42,104	59	219	2.3	465.2	465.2	465.6	0.4
CY	42,150	79	394	0.7	466.2	466.2	466.9	0.7
CZ	42,515	30	69	4.2	466.1	466.1	466.9	0.8

[1]Stream Distance in Feet Above Confluence with Muck Lake

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LACAMAS CREEK								
DA	42,930	36	89	3.3	468.9	468.9	469.3	0.4
DB	43,246	30	60	4.8	470.5	470.5	471.2	0.7
DC	43,640	32	82	3.5	473.9	473.9	474.2	0.3

[1]Stream Distance in Feet Above Confluence with Muck Lake

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

LACAMAS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LEACH CREEK								
A-M[2]								
N	6,100	83	153	1.4	182.3	182.3	182.3	0.0
O	6,770	40	144	1.5	182.5	182.5	182.6	0.1
P	6,825	40	152	1.5	182.7	182.7	182.7	0.0
Q	7,380	40	137	1.6	182.8	182.8	183.0	0.2
R	7,430	40	120	1.8	182.8	182.8	183.0	0.2
S	8,100	50	136	1.5	183.2	183.2	183.4	0.2
T	9,150	40	98	2.1	184.1	184.1	184.5	0.4
U	10,350	40	64	3.3	186.9	186.9	187.1	0.2
V	10,900	40	54	3.7	190.0	190.0	190.0	0.0
W	11,490	25	50	4.0	193.8	193.8	193.8	0.0
X-AA[2]								

[1]Feet Above Mouth

[2]No floodway computed

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

LEACH CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
MEEKER DITCH								
A	98	18	67	2.1	30.4	30.4	30.4	0.0
B	684	50	86	2.1	31.2	31.2	31.6	0.4
C	1,208	24	70	2.0	32.0	32.0	32.6	0.6
D	1,296	43	84	1.7	32.4	32.4	33.0	0.6
E	1,652	24	66	2.2	32.8	32.8	33.3	0.5
F	1,731	24	73	2.0	33.1	33.1	33.7	0.6
G	2,038	24	73	1.9	33.4	33.4	33.9	0.5
H	2,384	30	65	2.4	33.9	33.9	34.2	0.3
I	2,464	36	106	1.5	34.4	34.4	35.4	1.0
J	2,672	30	92	1.6	34.5	34.5	35.4	0.9
K	2,713	26	88	1.6	34.7	34.7	35.6	0.9
L	3,148	20	70	2.0	35.2	35.2	35.8	0.6
M	3,234	20	82	1.7	35.6	35.6	36.1	0.5
N	3,541	25	74	1.9	35.8	35.8	36.3	0.5
O	3,832	17	58	2.5	36.2	36.2	36.6	0.4
P	3,922	32	85	1.7	36.7	36.7	37.5	0.8
Q	4,125	27	90	1.6	37.1	37.1	37.7	0.6
R	4,151	31	93	1.5	37.2	37.2	37.9	0.7
S	4,370	44	96	1.6	37.8	37.8	38.5	0.7
T	4,415	48	108	1.4	37.9	37.9	38.9	1.0
U	4,586	32	96	1.5	38.2	38.2	39.1	0.9

[1]Stream Distance in Feet from the Confluence with Clarks Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

MEEKER DITCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
MOREY CREEK								
A	125	15	11	5.0	285.0	285.0	285.0	0.0
B	144	10	28	2.0	285.0	285.0	285.0	0.0
C	164	30	111	0.5	292.6	292.6	292.6	0.0
D	436	174	554	0.1	292.6	292.6	292.6	0.0
E	1,290	34	66	0.9	292.6	292.6	292.6	0.0
F	1,321	7	28	3.8	292.7	292.7	292.7	0.0
G	1,421	8	42	2.7	293.2	293.2	293.2	0.0
H	1,493	71	121	0.5	293.4	293.4	293.4	0.0
I	1,888	30	49	1.2	293.6	293.6	293.8	0.2
J	2,336	42	58	1.0	295.4	295.4	295.8	0.4
K	2,743	32	74	0.8	296.3	296.3	296.7	0.4
L	2,839	22	34	1.7	296.5	296.5	296.9	0.4
M	2,855	25	65	0.9	297.1	297.1	298.1	1.0
N	2,911	50	117	0.5	297.2	297.2	298.2	1.0
O	3,030	28	61	0.9	297.2	297.2	298.2	1.0
P	3,031	28	62	1.0	297.2	297.2	298.2	1.0
Q	3,240	58	129	0.4	297.7	297.7	298.4	0.7
R	3,335	79	145	0.4	298.0	298.0	298.4	0.4
S	3,341	79	138	0.4	298.0	298.0	298.5	0.5
T	3,390	42	106	0.5	298.3	298.3	299.2	0.9
U	3,518	35	89	0.6	298.3	298.3	299.3	1.0
V	3,858	43	145	0.4	298.4	298.4	299.4	1.0
W	4,032	55	153	0.4	298.5	298.5	299.5	1.0
X	4,060	25	71	0.8	298.6	298.6	299.5	0.9
Y	4,120	24	73	0.8	298.8	298.8	299.6	0.8
Z	4,529	56	122	0.5	299.3	299.3	300.1	0.8

[1]Stream Distance in Feet from Confluence with Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

MOREY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
MOREY CREEK								
AA	4,670	14	34	1.7	299.4	299.4	300.4	1.0
AB	4,740	13	30	1.9	299.6	299.6	300.5	0.9
AC	4,908	35	73	0.8	300.3	300.3	301.1	0.8
AD	5,171	33	62	0.9	300.5	300.5	301.5	1.0
AE	5,175	33	63	0.9	300.6	300.6	301.5	0.9
AF	5,216	40	70	0.8	300.6	300.6	301.6	1.0
AG	5,221	45	79	0.7	300.7	300.7	301.6	0.9
AH	5,319	60	111	0.5	300.7	300.7	301.7	1.0

[1]Stream Distance in Feet from Confluence with Clover Creek

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK								
A	61	28	91	5.5	308.7	308.7	309.1	0.4
B	209	170	363	1.4	309.4	309.4	310.0	0.6
C	270	280	957	0.5	309.6	309.6	310.5	0.9
D	322	170	828	0.6	309.6	309.6	310.5	0.9
E	495	130	641	0.8	309.6	309.6	310.5	0.9
F	801	120	485	1.0	309.6	309.6	310.5	0.9
G	920	119	434	1.2	309.6	309.6	310.6	1.0
H	932	128	479	1.1	309.6	309.6	310.6	1.0
I	964	120	461	1.1	309.6	309.6	310.6	1.0
J	1,058	127	519	1.0	309.6	309.6	310.6	1.0
K	1,069	141	570	0.9	309.6	309.6	310.6	1.0
L	1,294	155	517	1.0	309.7	309.7	310.7	1.0
M	1,811	155	343	1.5	309.8	309.8	310.8	1.0
N	2,088	73	109	4.6	310.2	310.2	310.9	0.7
O	2,256	39	100	5.1	311.2	311.2	311.7	0.5
P	2,335	47	122	4.1	311.9	311.9	312.1	0.2
Q	2,365	48	128	3.9	312.0	312.0	312.3	0.3
R	2,533	57	155	3.2	312.6	312.6	312.7	0.1
S	3,012	46	150	3.4	313.4	313.4	313.5	0.1
T	3,484	20	96	5.2	314.1	314.1	314.5	0.4
U	3,592	17	82	6.1	314.1	314.1	314.8	0.7
V	3,655	40	178	2.8	315.7	315.7	316.5	0.8
W	3,841	43	210	2.4	315.9	315.9	316.7	0.8
X	4,014	24	138	4.1	315.9	315.9	316.7	0.8
Y	4,090	62	239	2.1	319.3	319.3	319.4	0.1
Z	4,310	68	372	1.4	319.4	319.4	319.5	0.1

[1]Feet Above Confluence With Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

NORTH FORK CLOVER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK								
AA	4,544	59	302	1.7	319.4	319.4	319.5	0.1
AB	4,745	61	215	2.3	319.4	319.4	319.6	0.2
AC	4,819	58	199	2.5	319.4	319.4	319.6	0.2
AD	4,971	25	101	5.0	319.4	319.4	319.6	0.2
AE	5,038	18	102	6.5	319.4	319.4	319.7	0.3
AF	5,090	22	69	7.3	319.8	319.8	320.2	0.4
AG	5,189	30	88	5.7	320.6	320.6	320.9	0.3
AH	5,310	23	45	7.9	321.3	321.3	321.3	0.0
AI	5,422	23	45	7.9	321.8	321.8	321.8	0.0
AJ	5,448	15	39	9.2	322.5	322.5	322.5	0.0
AK	5,479	15	58	6.2	323.7	323.7	323.7	0.0
AL	5,640	15	71	5.1	324.6	324.6	324.6	0.0
AM	6,022	25	45	7.7	328.4	328.4	328.4	0.0
AN	6,318	27	66	5.2	331.8	331.8	331.8	0.0
AO	6,599	48	56	6.2	334.7	334.7	334.7	0.0
AP	7,065	23	44	7.9	342.5	342.5	342.5	0.0
AQ	7,511	31	50	6.8	350.4	350.4	350.4	0.0
AR	7,690	33	58	5.9	352.6	352.6	352.6	0.0
AS	8,062	45	55	6.2	359.6	359.6	359.6	0.0
AT	8,354	17	101	3.4	361.5	361.5	361.5	0.0
AU	8,381	15	98	3.5	361.6	361.6	361.6	0.0
AV	8,413	24	85	4.1	361.6	361.6	361.6	0.0
AW	8,819	28	96	2.8	362.3	362.3	362.3	0.0
AX	9,108	20	62	4.3	362.6	362.6	362.6	0.0
AY	9,658	642	3,645	0.1	365.2	365.2	365.2	0.0
AZ	9,949	435	1,946	0.1	365.2	365.2	365.2	0.0

[1]Feet Above Confluence With Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

NORTH FORK CLOVER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK								
BA	10,228	127	435	0.6	365.2	365.2	365.2	0.0
BB	10,428	20	111	2.4	365.2	365.2	365.2	0.0
BC	10,658	25	88	3.1	365.2	365.2	365.3	0.1
BD	10,873	22	92	2.9	365.5	365.5	365.5	0.1
BE	11,160	20	85	3.1	365.7	365.7	365.8	0.1
BF	11,495	20	90	3.0	366.1	366.1	366.1	0.1
BG	11,565	14	65	4.2	366.1	366.1	366.1	0.1
BH	12,308	31	102	2.6	366.9	366.9	367.2	0.3
BI	12,629	70	218	1.4	367.0	367.0	367.4	0.4
BJ	12,963	34	138	1.9	367.0	367.0	367.4	0.4
BK	12,988	75	259	1.0	367.0	367.0	367.8	0.8
BL	13,188	75	201	1.1	367.1	367.1	367.8	0.8
BM	13,645	33	93	1.8	367.1	367.1	367.9	0.8
BN	14,100	59	188	1.2	367.3	367.3	368.1	0.8
BO	14,146	25	41	4.4	367.3	367.3	368.1	0.8
BP	14,180	76	226	0.8	369.1	369.1	370.1	1.0
BQ	14,208	51	101	2.0	369.1	369.1	370.1	1.0
BR	14,263	26	58	2.8	369.2	369.2	370.2	1.0
BS	14,495	170	98	2.8	370.7	370.7	371.8	1.0
BT	14,537	4	14	11.4	372.4	372.4	373.3	0.9
BU	14,965	25	55	3.0	375.2	375.2	375.9	0.7
BV	15,433	10	28	5.8	377.2	377.2	377.2	0.1
BW	15,837	31	89	1.9	378.3	378.3	378.3	0.0
BX	16,284	23	45	3.6	378.6	378.6	378.6	0.0
BY	16,618	56	49	3.3	380.3	380.3	380.3	0.0
BZ	17,035	15	53	4.1	381.3	381.3	381.3	0.0

[1]Feet Above Confluence With Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

NORTH FORK CLOVER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK								
CA	17,148	17	65	3.4	383.1	383.1	383.1	0.0
CB	17,394	22	96	1.4	383.3	383.3	383.4	0.1
CC	17,700	16	59	2.2	383.3	383.3	383.5	0.2
CD	18,095	56	106	1.8	383.3	383.3	383.8	0.5
CE	18,480	136	252	1.8	383.3	383.3	384.1	0.8
CF	18,690	140	427	0.6	384.0	384.0	385.0	1.0
CG	18,943	14	76	1.8	384.0	384.0	385.0	1.0
CH	19,010	16	84	1.6	385.3	385.3	386.3	1.0
CI	19,430	62	212	0.6	385.4	385.4	386.4	1.0
CJ	19,937	93	193	0.7	385.5	385.5	386.4	0.9
CK	19,993	268	607	0.2	385.6	385.6	386.4	0.8
CL	20,510	11	19	6.3	385.7	385.7	386.4	0.7
CM	20,568	52	102	3.7	388.1	388.1	388.1	0.0
CN	20,620	22	58	1.8	388.3	388.3	388.3	0.0
CO	20,865	19	51	3.8	388.3	388.3	388.4	0.1
CP	20,910	32	82	3.0	389.1	389.1	389.2	0.1
CQ	21,095	53	88	3.1	389.3	389.3	389.4	0.1
CR	21,171	62	122	1.4	390.3	390.3	390.4	0.1
CS	21,185	90	151	0.7	390.3	390.3	390.4	0.1
CT	21,204	97	162	0.7	390.3	390.3	390.4	0.1
CU	21,354	39	108	1.0	390.4	390.4	390.4	0.1
CV	21,401	38	107	1.0	390.4	390.4	390.5	0.1
CW	21,682	60	121	0.9	390.4	390.4	390.6	0.1
CX	21,698	67	146	0.7	390.4	390.4	390.6	0.1
CY	21,733	49	164	0.9	390.4	390.4	390.6	0.2
CZ	21,780	60	285	0.6	390.6	390.6	391.6	1.0

[1]Feet Above Confluence With Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

NORTH FORK CLOVER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK								
DA	21,792	45	224	0.5	390.6	390.6	391.6	1.0
DB	21,818	26	121	0.9	390.6	390.6	391.6	1.0
DC	22,188	65	243	0.4	390.7	390.7	391.7	1.0
DD	22,368	52	136	0.8	390.7	390.7	391.7	1.0
DE	22,540	170	661	0.2	390.7	390.7	391.7	1.0
DF	22,810	513	1928	0.1	390.7	390.7	391.7	1.0
DG	22,829	367	1741	0.1	390.7	390.7	391.7	0.9
DH	22,865	367	1778	0.1	390.7	390.7	391.7	1.0
DI	22,920	399	1452	0.1	390.7	390.7	391.7	1.0
DJ	23,272	510	2434	0.1	390.7	390.7	391.7	1.0
DK	23,655	416	2228	0.1	390.7	390.7	391.7	1.0
DL	24,000	273	1367	0.1	390.7	390.7	391.7	1.0
DM	24,371	12	49	1.5	390.7	390.7	391.7	1.0

[1]Feet Above Confluence With Clover Creek

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK TRIBUTARY 1								
A	75	23	51	2.9	321.4	321.4	321.8	0.4
B	453	21	34	4.4	322.5	322.5	322.7	0.2
C	780	19	29	5.2	324.2	324.2	324.4	0.2
D	873	20	32	4.7	324.8	324.8	325.0	0.2
E	958	14	23	6.4	325.0	325.0	325.2	0.2
F	1,040	18	42	3.5	325.7	325.7	326.4	0.7
G	1,090	26	46	3.2	325.8	325.8	326.5	0.7
H	1,110	20	51	2.9	326.7	326.7	327.6	0.9
I	1,172	21	39	3.8	326.8	326.8	327.6	0.8
J	1,186	17	42	3.5	327.2	327.2	327.9	0.7
K	1,460	15	21	7.0	329.8	329.8	329.8	0.0
L	1,710	12	27	5.5	333.1	333.1	333.1	0.0
M	1,767	9	58	3.6	333.6	333.6	333.6	0.0
N	1,838	15	77	2.1	337.0	337.0	337.0	0.0
O	1,870	22	60	2.5	337.0	337.0	337.0	0.0
P	1,925	24	75	2.0	337.1	337.1	337.1	0.0
Q	2,000	21	75	2.0	338.8	338.8	339.7	0.9
R	2,424	26	25	4.8	344.7	344.7	344.7	0.0
S	2,877	24	22	5.4	352.6	352.6	352.6	0.0
T	3,248	20	20	5.8	361.5	361.5	361.5	0.0
U	3,634	16	19	6.2	369.7	369.7	369.7	0.0
V	4,139	5	32	9.2	379.8	379.8	379.8	0.0
W	4,214	5	135	2.4	390.8	390.8	390.8	0.0
X	4,767	5	95	4.5	390.8	390.8	390.9	0.1
Y	4,836	5	119	2.5	395.3	395.3	395.4	0.1
Z	5,335	12	59	2.0	395.4	395.4	395.5	0.1

[1]Feet Above Confluence With North Fork Clover Creek

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK TRIBUTARY 1								
AA	5,775	26	63	1.9	395.4	395.4	395.7	0.3
AB	6,229	6	29	8.9	400.1	400.1	400.1	0.0
AC	6,293	90	281	0.4	402.3	402.3	403.3	1.0
AD	6,489	43	172	0.7	402.3	402.3	403.3	1.0
AE	6,951	36	87	1.4	402.3	402.3	403.3	1.0
AF	7,325	27	31	3.8	404.2	404.2	404.4	0.2
AG	7,456	884	10132	0.0	409.9	409.9	409.9	0.0
AH	7,693	884	10132	0.0	409.9	409.9	409.9	0.0
AI	8,257	166	249	0.7	409.9	409.9	409.9	0.0
AJ	8,825	16	30	6.6	412.2	412.2	412.2	0.0
AK	8,882	25	147	1.2	416.5	416.5	417.2	0.7
AL	8,917	21	100	1.8	416.5	416.5	417.2	0.7
AM	9,209	42	233	0.8	416.5	416.5	417.2	0.7
AN	9,822	34	92	2.0	416.5	416.5	417.3	0.8
AO	9,843	31	88	2.1	416.5	416.5	417.3	0.8
AP	10,359	73	122	1.5	416.8	416.8	417.5	0.7
AQ	10,649	14	24	7.5	420.1	420.1	420.0	-0.1
AR	10,737	7	25	8.5	421.0	421.0	421.1	0.1
AS	10,780	6	28	3.3	422.4	422.4	422.4	0.0
AT	11,041	23	41	2.0	422.8	422.8	422.8	0.0
AU	11,372	31	32	2.6	424.8	424.8	424.8	0.0
AV	11,892	19	22	3.7	428.8	428.8	428.8	0.0
AW	12,312	16	22	3.7	431.6	431.6	431.6	0.0
AX	12,352	8	16	2.1	431.8	431.8	431.8	0.0
AY	12,415	10	7	4.9	432.3	432.3	432.3	0.0
AZ	12,665	15	11	3.1	434.7	434.7	434.7	0.0

[1]Feet Above Confluence With North Fork Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

NORTH FORK CLOVER CREEK TRIBUTARY 1

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK TRIBUTARY 1								
BA	12,877	10	9	3.8	436.8	436.8	436.8	0.0
BB	12,959	8	22	2.0	437.2	437.2	437.2	0.0
BC	13,027	15	31	0.8	437.5	437.5	437.5	0.0
BD	13,055	29	62	0.4	437.5	437.5	437.5	0.0
BE	13,163	55	54	0.3	437.5	437.5	437.5	0.0
BF	13,304	25	10	1.7	437.7	437.7	437.8	0.1
BG	13,448	33	30	0.6	438.0	438.0	438.0	0.0
BH	13,565	42	20	0.8	438.1	438.1	438.1	0.0
BI	13,682	61	39	0.4	438.2	438.2	438.2	0.0
BJ	13,748	29	18	0.9	438.2	438.2	438.2	0.0
BK	13,832	29	22	0.8	438.3	438.3	438.3	0.0
BL	14,028	53	28	0.8	438.5	438.5	438.5	0.0
BM	14,205	37	20	1.1	438.9	438.9	438.9	0.0
BN	14,337	26	7	3.0	439.9	439.9	439.9	0.0
BO	14,434	33	18	1.2	440.8	440.8	440.8	0.1
BP	14,586	44	9	2.6	443.2	443.2	443.2	0.0
BQ	14,764	25	14	1.6	444.7	444.7	444.7	0.0
BR	15,009	17	8	2.9	451.9	451.9	451.9	0.0
BS	15,028	4	7	5.6	453.9	453.9	453.9	0.0
BT	15,056	57	228	0.1	457.0	457.0	457.0	0.0
BU	15,171	4	162	1.5	457.0	457.0	457.0	0.0

[1]Stream Distance in Feet Above Confluence With North Fork Clover Creek

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK TRIBUTARY 2								
A	347	14	7	4.2	333.0	333.0	333.0	0.0
B	750	25	9	3.4	344.0	344.0	344.0	0.0
C	1,266	21	8	3.7	357.6	357.6	357.6	0.0
D	1,717	15	8	4.1	373.9	373.9	374.0	0.1
E	2,177	17	9	3.3	380.0	380.0	380.0	0.0
F	2,632	20	11	2.9	384.1	384.1	384.1	0.0
G	3,032	44	37	0.8	384.6	384.6	384.6	0.0
H	3,632	25	14	2.2	386.7	386.7	386.7	0.0
I	3,953	11	9	3.3	388.9	388.9	388.9	0.0
J	4,127	10	7	5.9	395.1	395.1	395.1	0.0
K	4,203	20	45	2.2	396.9	396.9	396.9	0.0
L	4,464	69	159	0.2	397.0	397.0	397.0	0.0

[1]Stream Distance in Feet Above Confluence with North Fork Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

NORTH FORK CLOVER CREEK TRIBUTARY 2

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK TRIBUTARY 4								
A	175	8	15	3.1	364.1	364.1	364.2	0.1
B	336	8	7	4.3	365.1	365.1	365.1	0.0
C	352	31	40	1.0	366.0	366.0	366.7	0.7
D	500	62	85	0.4	366.1	366.1	366.8	0.7
E	534	16	18	2.2	367.3	367.3	367.3	0.0
F	595	51	50	0.6	367.4	367.4	367.4	0.0
G	620	30	36	0.8	368.4	368.4	368.4	0.0
H	690	9	7	4.1	368.4	368.4	368.4	0.0
I	707	68	122	0.3	369.8	369.8	369.9	0.1
J	979	42	13	2.3	371.3	371.3	371.3	0.0
K	1,319	31	12	2.5	375.8	375.8	375.8	0.0
L	1,784	57	23	1.3	378.5	378.5	378.5	0.0
M	1,978	6	6	5.6	382.2	382.2	382.2	0.0
N	2,044	5	11	2.8	383.7	383.7	383.7	0.0
O	2,369	27	12	2.5	386.0	386.0	386.0	0.0
P	2,738	9	7	6.6	391.8	391.8	391.8	0.0
Q	2,762	37	80	0.5	393.9	393.9	394.9	1.0
R	3,042	56	145	0.2	394.0	394.0	395.0	1.0
S	3,325	12	10	3.0	394.9	394.9	395.0	0.1
T	3,776	11	8	6.0	400.4	400.4	400.4	0.0
U	3,864	9	14	3.3	402.4	402.4	402.4	0.0
V	3,886	5	10	3.4	402.4	402.4	402.4	0.0

[1]Feet Above Confluence with North Fork Clover Creek

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
NORTH FORK CLOVER CREEK TRIBUTARY 5								
A	86	7	35	2.9	367.0	367.0	367.8	0.8
B	167	7	40	2.6	367.6	367.6	368.5	0.9
C	555	45	85	1.4	367.9	367.9	368.8	0.9
D	1,031	25	70	1.5	368.0	368.0	368.9	0.9
E	1,472	13	38	4.3	368.3	368.3	369.0	0.7

[1]Feet Above Confluence with North Fork Clover Creek

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER								
A	580	647[4]	7,903	6.0	- / 13.0 / - / -	9.2	9.2	0.0
B	1,652	673[4]	8,176	5.8	- / 13.0 / - / -	9.5	9.7	0.2
C	2,636	660[4]	7,642	6.2	- / 13.0 / - / -	9.8	10.0	0.2
D	3,657	623	6,719	7.1	- / 13.0 / - / -	10.1	10.5	0.4
E	3,858	527[4]	6,519	7.3	- / 13.0 / - / -	10.5	11.0	0.5
F	4,150	520[4]	6,749	7.1	- / 13.0 / - / -	10.6	11.2	0.6
G	4,390	516[4]	6,826	7.0	- / 13.0 / - / -	10.8	11.4	0.6
H	4,850	501[4]	6,478	7.4	- / 13.0 / - / -	10.9	11.6	0.7
I	5,879	468[4]	5,705	8.3	- / 13.0 / - / -	11.4	12.1	0.7
J	6,771	448[4]	5,646	8.4	- / 13.0 / - / -	12.0	12.8	0.8
K	7,611	426[4]	5,726	8.3	13.4 / 13.6 / - / -	12.7	13.5	0.8
L	7,796	425[4]	5,705	8.3	13.7 / 13.9 / - / -	12.9	13.8	0.9
M	8,036	419[4]	5,787	8.2	13.9 / 14.1 / - / -	13.0	14.1	1.1
N	8,849	423[4]	5,856	8.1	14.5 / 14.7 / - / -	13.4	14.6	1.2
O	9,659	395[4]	5,645	8.4	15.2 / 15.2 / - / -	13.9	15.1	1.2
P	10,451	362[4]	5,382	8.8	15.5 / 15.7 / - / -	14.2	15.6	1.4
Q	10,598	369[4]	5,489	8.7	15.8 / 16.0 / - / -	14.4	15.9	1.5
R	10,822	355[4]	5,338	8.9	16.0 / 16.1 / - / -	14.5	16.0	1.5
S	11,245	338[4]	5,265	9.0	16.4 / 16.7 / - / -	14.8	16.6	1.8
T	11,531	331[4]	5,100	9.3	16.5 / 16.8 / - / -	15.2	16.8	1.6
U	11,708	336[4]	5,129	9.3	16.6 / 17.0 / - / -	15.2	16.9	1.7
V	12,015	314[4]	5,215	9.1	17.4 / 17.7 / - / -	15.6	17.7	2.1
W	12,299	316[4]	5,239	9.1	17.6 / 18.0 / - / -	15.7	17.9	2.2
X	12,728	330[4]	5,136	9.3	18.2 / 18.6 / - / -	16.0	18.5	2.5
Y	12,990	504[4]	5,711	8.3	18.6 / 18.9 / 16.6 / 16.1	16.2	18.9	2.7
Z	13,142	475[4]	5,330	8.9	18.6 / 18.9 / 16.6 / 16.2	16.2	18.9	2.7

[1]Stream Distance in Feet Above Confluence With Commencement Bay

[2]Without consideration of left levee / With consideration of both levees / Without consideration of right levee with consideration of railroad / Without consideration of right levee or consideration of railroad.

[3]Elevations computed without consideration of both levees [4]Computed floodway extends into seclusion area

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

PUYALLUP RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER								
AA	13,804	434[4]	5,618	8.5	19.7 / 20.0 / 17.5 / 17.1	17.0	19.9	2.9
AB	14,699	893[4]	8,879	5.4	20.7 / 20.7 / 18.4 / 17.4	17.4	21.0	3.6
AC	15,164	1,305[4]	12,714	3.7	21.4 / 21.1 / 18.6 / 17.6	17.6	21.5	3.9
AD	15,968	1,969[4]	16,295	2.9	21.8 / 21.5 / 18.9 / 18.0	17.9	21.9	4.0
AE	16,910	1,466[4]	12,675	3.8	22.2 / 22.5 / 19.4 / 18.0	18.0	22.2	4.2
AF	17,915	1,479[4]	13,059	3.6	22.6 / 23.5 / 20.2 / 18.0	18.1	22.5	4.4
AG	18,905	1,916[4]	16,732	2.8	23.0 / 24.1 / 20.8 / 18.5	18.7	22.9	4.2
AH	19,854	2,458[4]	20,408	2.3	23.4 / 24.7 / 21.2 / 19.0	19.1	23.2	4.1
AI	20,577	3,304[4]	26,268	1.8	23.6 / 25.4 / 21.8 / 20.0	19.8	23.5	3.7
AJ	21,515	3,341[4]	22,892	2.1	23.7 / 26.0 / 22.2 / 21.0	20.2	23.6	3.4
AK	22,534	3,437[4]	24,094	2.0	23.9 / 26.7 / 23.2 / 21.7	20.5	23.8	3.3
AL	23,492	3,465[4]	29,708	1.6	24.2 / 27.2 / 23.6 / 22.4	21.1	24.0	2.9
AM	24,466	3,721[4]	30,669	1.6	24.3 / 27.6 / 23.8 / 22.7	21.4	24.1	2.7
AN	25,392	3,915[4]	26,262	1.8	24.4 / 28.1 / 24.9 / 24.2	21.6	24.2	2.6
AO	26,294	3,956[4]	26,624	1.8	24.5 / 28.8 / 25.4 / 24.8	22.0	24.4	2.4
AP	27,287	3,050[4]	17,634	2.7	24.6 / 29.5 / 25.5 / 25.0	22.1	24.5	2.4
AQ	28,262	1,941[4]	9,734	4.9	24.6 / 29.6 / 25.7 / 25.3	22.5	24.5	2.0
AR	29,200	391[4]	4,673	10.2	24.9 / 29.9 / 26.3 / 26.0	23.5	24.8	1.3
AS	29,891	293[4]	4,017	11.9	25.4 / 30.1 / 26.4 / 26.0	23.1	25.3	2.2
AT	30,160	277[4]	3,989	12.0	25.8 / 30.2 / 26.2 / 25.6	23.5	25.7	2.2
AU	30,246	276[4]	3,968	12.0	26.0 / 30.3 / 26.6 / 26.8	23.9	25.9	2.0
AV	30,430	286[4]	3,820	12.5	26.2 / 30.4 / 26.5 / 26.6	24.2	26.1	1.9
AW	31,482	309[4]	4,682	10.2	28.5 / 31.4 / 28.5 / 28.5	27.9	28.4	0.5
AX	32,596	295[4]	4,426	10.8	29.5 / 32.0 / 29.3 / 29.4	28.8	29.5	0.7
AY	33,576	291[4]	4,148	11.5	30.6 / 32.7 / 29.8 / 29.9	29.6	30.6	1.0
AZ	34,721	1,013[4]	9,184	5.2	32.6 / 33.9 / 31.8 / 31.8	32.3	32.9	0.6

[1]Stream Distance in Feet Above Confluence With Commencement Bay

[2]Without consideration of left levee / With consideration of both levees / Without consideration of right levee with consideration of railroad / Without consideration of right levee or consideration of railroad.

[3]Elevations computed without consideration of both levees [4]Computed floodway extends into seclusion area

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

PUYALLUP RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER								
BA	35,359	848[4]	6,710	7.1	32.9 / 34.3 / 32.2 / 32.2	32.4	33.0	0.6
BB	36,251	1,180[4]	14,289	3.4	34.2 / 35.2 / 33.7 / 33.7	33.5	34.5	1.0
BC	36,808	959[4]	11,203	4.3	35.0 / 35.9 / 33.9 / 33.9	33.6	34.5	0.9
BD	37,950	327[4]	4,656	10.3	35.7 / 36.5 / 34.1 / 34.1	33.4	34.4	1.0
BE	38,949	312[4]	5,343	9.0	36.9 / 37.5 / 35.6 / 35.6	35.2	35.8	0.6
BF	39,952	416[4]	5,535	8.6	37.4 / 38.0 / 36.3 / 36.3	36.0	36.7	0.7
BG	41,078	369[4]	5,864	8.2	38.4 / 38.8 / 37.4 / 37.4	37.2	37.7	0.5
BH	41,882	378[4]	5,621	8.5	38.9 / 39.3 / 38.0 / 38.0	37.9	38.3	0.4
BI	42,929	259[4]	4,837	9.9	39.6 / 39.9 / 39.9 / 38.7	38.7	39.1	0.4
BJ	43,022	265[4]	4,976	9.7	40.2 / 40.2 / 40.2 / 38.9	39.1	39.3	0.2
BK	43,140	315	5,272	9.1	40.3 / 40.3 / 40.3 / 39.1	39.2	39.6	0.4
BL	44,154	328	5,217	9.2	41.3 / 41.3 / 41.3 / 40.3	40.4	40.7	0.3
BM	45,110	271	5,099	9.4	42.1 / 42.1 / 42.1 / 41.3	41.4	41.7	0.3
BN	45,236	259	4,685	10.3	42.1 / 42.1 / 42.1 / 41.1	41.4	41.7	0.3
BO	45,304	340	5,091	9.4	42.5 / 42.5 / 42.5 / 41.3	41.8	42.1	0.3
BP	45,618	368	6,417	7.5	43.3 / 43.3 / 43.3 / 42.3	42.8	43.0	0.2
BQ	46,403	352	6,109	7.9	43.9 / 43.9 / 43.9 / 42.9	43.4	43.5	0.1
BR	47,263	247	4,547	10.6	44.0 / 44.0 / 44.0 / 43.0	43.6	43.7	0.1
BS	47,508	302	5,029	9.5	44.4 / 44.4 / 44.4 / 43.4	44.0	44.4	0.4
BT	47,584	304	5,298	9.1	44.8 / 44.8 / 44.8 / 43.7	44.4	44.8	0.4
BU	47,589	330	5,757	8.3	45.1 / 45.1 / 45.1 / 44.0	44.7	45.1	0.4
BV	47,664	348	5,902	8.1	45.2 / 45.2 / 45.2 / 43.9	44.8	45.1	0.3
BW	47,810	397	6,834	7.0	45.6 / 45.6 / 45.6 / 44.3	45.2	45.5	0.3
BX	48,469	454	8,157	5.9	46.3 / 46.3 / 46.3 / 45.2	46.0	46.3	0.3
BY	49,288	337	5,655	8.5	46.4 / 46.4 / 46.4 / 45.3	46.1	46.4	0.3
BZ	50,399	279	5,107	9.4	47.5 / 47.5 / 47.5 / 46.6	47.3	47.4	0.1

[1]Stream Distance in Feet Above Confluence With Commencement Bay

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[3]Elevations computed without consideration of both levees [4]Computed floodway extends into seclusion area

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

PUYALLUP RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER								
CA	51,405	372	7,000	6.9	48.3 / 48.3 / 48.3 / 47.4	48.2	48.9	0.7
CB	52,533	332	6,380	7.5	48.9 / 48.9 / 48.9 / 48.1	48.7	49.4	0.7
CC	53,458	227	4,151	11.6	48.8 / 48.8 / 48.8 / -	48.6	49.3	0.7
CD	54,715	318	5,011	8.7	51.5 / 51.5 / 51.5 / -	51.4	52.2	0.8
CE	55,781	298	4,723	9.2	52.6 / 52.6 / 52.6 / -	52.6	53.2	0.6
CF	56,316	354	3,513	12.4	52.4 / 52.4 / 52.4 / -	52.3	53.3	1.0
CG	56,401	345	3,564	12.2	52.8 / 52.8 / 52.7 / -	52.7	53.5	0.8
CH	56,458	290	5,064	8.6	54.5 / 54.5 / 54.5 / -	54.5	54.9	0.4
CI	56,493	285	5,045	8.6	54.6 / 54.6 / 54.6 / -	54.5	54.9	0.4
CJ	57,961	563	5,244	8.3	56.1 / 56.1 / 56.1 / -	56.1	56.1	0.0
CK	59,093	391	4,579	9.5	57.0 / 57.0 / 57.0 / -	57.0	57.4	0.4
CL	60,172	292	3,810	11.4	58.3 / 58.3 / 58.3 / -	58.2	58.9	0.7
CM	61,769	282	3,758	11.6	60.9 / 60.9 / 60.9 / -	60.9	61.9	1.0
CN	62,776	301	4,372	10.0	63.8 / 63.8 / 63.8 / -	63.8	64.2	0.4
CO	63,433	205	3,186	13.7	64.6 / 64.6 / 64.6 / -	64.0	64.4	0.4
CP	63,474	205	3,237	13.4	65.1 / 65.1 / 65.1 / -	64.3	64.7	0.4
CQ	63,802	266	4,164	10.5	67.0 / 67.0 / 67.0 / -	66.5	66.6	0.1
CR	64,294	235	3,206	13.6	66.9 / 66.9 / 66.9 / -	66.5	66.7	0.2
CS	65,385	660	4,727	9.2	70.8 / 70.8 / 70.8 / -	70.6	70.6	0.0
CT	66,635	443	5,225	8.3	73.2 / 73.2 / 73.2 / -	73.1	73.2	0.1
CU	67,702	217	3,205	13.6	73.1 / 73.1 / 73.1 / -	73.1	73.9	0.8
CV	69,109	952	8,227	5.3	77.5 / 77.5 / 77.5 / -	77.4	78.1	0.7
CW	69,498	823	6,372	6.8	77.4 / 77.4 / 77.4 / -	77.4	77.9	0.5
CX	70,110	490	5,236	8.3	78.3 / 78.3 / 78.3 / -	78.3	78.7	0.4
CY	70,619	640	4,618	9.4	78.9 / 78.9 / 78.9 / -	78.9	79.3	0.4
CZ	71,097	541	4,375	9.9	79.8 / 79.8 / 79.8 / -	79.8	80.1	0.3

[1]Stream Distance in Feet Above Confluence With Commencement Bay

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[3]Elevations computed without consideration of both levees

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

PUYALLUP RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER								
DA	72,332	612	5,294	8.2	82.7 / 82.7 / 82.7 / -	82.7	83.7	1.0
DB	73,567	1,200	11,937	3.6	85.1 / 85.1 / 85.1 / -	85.1	85.9	0.8
DC	74,621	967	8,990	4.8	85.3 / 85.0 / 85.0 / -	85.3	86.3	1.0
DD	74,906	825	7,283	6.5	85.4 / 85.4 / 85.4 / -	85.4	86.3	0.9
DE	75,565	955	5,914	11.6	85.8 / 85.8 / 85.8 / -	85.5	86.4	0.9
DF	75,651	597	4,548	12.0	86.6 / 86.1 / 86.1 / -	85.9	86.7	0.8
DG	75,892	624	4,178	10.4	87.1 / 86.7 / 86.7 / -	87.4	87.4	0.0
DH	76,122	534	4,369	10.0	88.2 / 88.5 / 88.5 / -	88.2	88.5	0.3
DI	76,495	485	5,074	8.6	89.7 / 89.9 / 89.9 / -	89.7	89.8	0.1
DJ	76,680	421	4,691	9.3	89.6 / 89.9 / 89.9 / -	89.6	89.9	0.3
DK	77,875	383	4,064	10.7	91.6 / 91.8 / 91.8 / -	91.6	92.2	0.6
DL	78,834	471	4,876	8.9	93.8 / 93.9 / 93.9 / -	93.8	94.8	1.0
DM	80,016	285	4,062	10.7	96.0 / 96.0 / 96.0 / -	96.0	96.5	0.5
DN	81,176	475	5,570	8.4	98.7 / 98.8 / 98.8 / -	98.7	99.0	0.3
DO	82,002	446	4,210	10.3	99.8 / 99.9 / 99.9 / -	99.8	99.9	0.1
DP	83,496	836	6,432	6.8	103.4 / 103.4 / 103.4 / -	103.4	104.0	0.6
DQ	85,351	865	7,887	5.5	106.6 / 106.6 / 106.6 / -	106.6	107.4	0.8
DR	86,508	1,497	12,001	3.6	108.5 / 108.6 / 108.6 / -	108.5	109.5	1.0
DS	88,555	315	2,968	15.0	110.0 / 111.2 / 111.2 / -	110.0	110.9	0.9
DT	88,750	362	4,034	10.8	114.8 / 114.7 / 114.7 / -	114.0	114.0	0.0
DU	88,836	274	3,795	11.5	115.0 / 114.9 / 114.9 / -	114.1	114.1	0.0
DV	88,913	482	5,116	8.5	116.2 / 116.1 / 116.1 / -	115.3	115.2	-0.1
DW	88,947	500	5,268	8.3	116.4 / 116.3 / 116.3 / -	115.4	115.4	0.0
DX	89,246	809	8,566	5.1	117.1 / 117.1 / 117.1 / -	116.2	116.2	0.0
DY	92,158	285	2,516	17.3	121.1 / 121.1 / 121.1 / -	121.1	121.1	0.0
DZ	92,759	345	2,878	6.5	122.6 / 122.6 / 122.2 / -	122.2	122.6	0.4

[1]Stream Distance in Feet Above Confluence With Commencement Bay

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TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

PUYALLUP RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER								
EA	92,945	325[4]	2,520	7.4	122.7 / 122.7 / 122.4 / -	122.4	122.8	0.4
EB	93,457	233[4]	1,632	11.4	123.7 / 123.7 / 123.5 / -	123.5	123.8	0.3
EC	93,500	231	1,676	11.1	124.0 / 124.0 / 123.8 / -	123.8	124.1	0.3
ED	93,522	186	1,508	12.3	123.9 / 123.9 / 123.5 / -	123.8	124.0	0.2
EE	93,549	170	1,399	13.3	124.0 / 124.4 / 122.9 / -	124.3	124.4	0.1
EF	93,947	435[4]	2,143	8.7	125.7 / 126.2 / 127.0 / -	127.2	127.2	0.0
EG	95,072	226	2,649	7.0	130.6 / 131.4 / 130.2 / -	130.2	130.3	0.1
EH	95,353	509	3,098	6.0	130.9 / 131.7 / 130.6 / -	130.6	130.6	0.0
EI	95,686	496	3,310	5.6	131.3 / 132.1 / 131.1 / -	131.2	131.2	0.0
EJ	98,187	331[4]	2,021	9.2	136.4 / 136.3 / 136.0 / -	136.3	136.9	0.6
EK	99,949	481[4]	2,825	6.6	143.0 / 142.3 / 140.9 / -	141.4	142.4	1.0
EL	102,317	411[4]	1,984	9.4	151.4 / 150.6 / 148.9 / -	149.3	150.3	1.0
EM	103,778	325	1,500	3.4	155.4 / 155.3 / 155.1 / -	152.9	153.9	1.0
EN	105,736	213[4]	703	7.3	160.1 / 162.1 / 162.8 / -	157.9	158.6	0.7
EO	107,776	231	754	6.8	169.4 / 172.0 / 172.5 / -	167.5	167.8	0.3
EP	109,694	232[4]	781	6.8	176.4 / 179.7 / 179.7 / -	175.1	176.0	0.9
EQ	112,148	880[4]	1,313	4.2	187.9 / 191.9 / 189.5 / -	186.7	187.7	1.0
ER	113,517	658[4]	1,314	7.5	197.4 / 199.6 / 196.4 / -	195.5	196.5	1.0
ES	113,697	800[4]	1,967	5.0	199.4 / 201.8 / 198.0 / -	197.1	198.1	1.0
ET	113,843	421[4]	1,427	6.9	200.2 / 202.2 / 198.3 / -	197.3	198.3	1.0
EU	115,960	238	989	11.8	210.6 / 212.3 / 211.8 / -	210.2	210.9	0.7
EV	117,760	628[4]	2,450	4.8	220.2 / 224.5 / 222.9 / -	219.9	220.9	1.0
EW	119,295	309	1,073	10.9	230.1 / 233.0 / 231.7 / -	230.1	230.1	0.0
EX	120,844	360[4]	1,336	8.7	243.2 / 244.5 / 244.5 / -	243.1	243.5	0.4
EY	123,134	496	1,946	9.6	262.7 / 263.4 / 263.2 / -	262.7	262.9	0.2
EZ	125,209	527[4]	2,398	7.8	278.3 / 277.9 / 277.8 / -	278.0	278.3	0.3

[1]Stream Distance in Feet Above Confluence With Commencement Bay

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PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

PUYALLUP RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY[2] (FEET NAVD)	WITHOUT FLOODWAY[3] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER								
FA	127,424	378	1,586	11.7	296.2 / 296.5 / 296.3 / -	296.1	296.3	0.2
FB	129,762	474	2,272	8.2	315.6 / 315.5 / 315.5 / -	315.9	316.1	0.2
FC	131,347	448	1,901	9.8	328.3 / 328.3 / 328.3 / -	328.4	328.5	0.1
FD	134,195	297	1,605	11.6	356.0 / 355.9 / 355.9 / -	355.8	355.9	0.1
FE	135,506	150	1,211	15.4	368.1 / 368.1 / 368.1 / -	368.2	368.3	0.1
FF	135,928	237	2,570	7.2	372.8 / 372.8 / 372.8 / -	372.8	372.8	0.0
FG	136,165	174	1,201	15.5	374.8 / 374.8 / 374.8 / -	374.8	374.8	0.0
FH	136,225	174	1,606	11.6	377.2 / 377.2 / 377.2 / -	377.2	377.2	0.0
FI	136,547	450	2,986	6.2	379.9 / 379.9 / 379.9 / -	379.9	380.0	0.1
FJ	137,822	465	1,741	10.7	391.7 / 391.7 / 391.7 / -	391.7	391.7	0.0
FK	139,325	287	1,792	10.4	408.2 / 408.2 / 408.2 / -	407.9	408.8	0.9
FL	142,387	386	1,860	10.0	437.7 / 437.7 / 437.7 / -	437.6	438.0	0.4
FM	144,529	601	2,199	7.9	462.0 / 462.0 / 462.0 / -	462.1	462.3	0.2
FN	147,214	366	1,777	9.7	493.4 / 493.4 / 493.4 / -	493.3	493.4	0.1
FO	148,162	710	2,567	6.7	503.5 / 503.5 / 503.5 / -	503.6	503.5	-0.1
FP	149,194	644	1,689	10.2	517.4 / 517.4 / 517.4 / -	517.4	517.5	0.1
FQ	151,928	494	2,226	7.8	552.0 / 552.0 / 552.0 / -	552.1	552.1	0.0
FR	152,408	389	1,661	10.4	558.0 / 558.0 / 558.0 / -	558.0	558.1	0.1
FS	152,933	241	1,339	12.9	566.0 / 566.0 / 566.0 / -	565.7	565.8	0.1
FT	153,301	227	1,853	9.3	569.3 / 569.3 / 569.3 / -	570.3	570.3	0.0
FU	153,371	227	1,976	8.8	570.2 / 570.2 / 570.2 / -	570.9	570.9	0.0
FV	153,458	665	3,887	4.5	571.7 / 571.7 / 571.7 / -	572.1	572.1	0.0
FW	154,386	544	1,861	9.3	581.2 / 581.2 / 581.2 / -	581.2	581.3	0.1
FX	155,159	518	2,090	8.3	593.2 / 593.2 / 593.2 / -	593.2	593.2	0.0
FY	157,383	359	1,904	9.1	617.7 / 617.7 / 617.7 / -	617.6	617.6	0.0
FZ	158,896	475	1,970	8.8	633.9 / 633.9 / 633.9 / -	634.0	634.0	0.0

[1]Stream Distance in Feet Above Confluence With Commencement Bay

[2]Without consideration of left levee / With consideration of both levees / Without consideration of right levee with consideration of railroad / Without consideration of right levee or consideration of railroad.

[3]Elevations computed without consideration of both levees

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
RODY CREEK								
D	2,381	6	14	3.2	34.8	34.8	34.8	0.0
E	8,500	7	13	0.4	383.0	383.0	383.0	0.0
F	8,794	5	1	3.4	395.4	395.4	395.3	0.0
G	9,800	15	32	0.8	399.8	399.8	399.8	0.0
H	10,311	6	5	5.1	400.3	400.3	400.4	0.2
I	10,649	15	36	0.7	402.9	402.9	402.9	0.0
J	11,238	10	25	1.1	403.0	403.0	403.2	0.3
K	11,838	23	22	1.2	411.7	411.7	411.7	0.0
L	12,745	12	48	0.6	421.6	421.6	422.0	0.4
M	13,369	5	7	4.1	423.3	423.3	423.4	0.1
N	13,562	11	49	0.5	427.5	427.5	427.5	0.0
O	13,911	8	33	0.8	428.7	428.7	429.4	0.6
P	14,418	14	47	0.6	431.4	431.4	431.5	0.1
Q	15,832	8	19	1.0	433.5	433.5	433.5	0.0
R	16,785	8	30	0.7	437.2	437.2	438.1	0.9
S	17,528	29	51	0.4	439.5	439.5	439.5	0.0
T	18,499	36	90	1.0	439.5	439.5	439.5	0.0
U	18,789	7	13	1.0	441.0	441.0	441.0	0.0
V	19,586	58	147	0.1	441.6	441.6	441.6	0.0
W	20,614	31	95	0.1	441.7	441.7	441.7	0.0
X	21,297	22	82	0.2	442.8	442.8	442.9	0.1
Y	22,015	32	30	0.2	443.3	443.3	443.3	0.0
Z	22,478	9	2	2.7	445.3	445.3	445.3	0.1
AA	22,811	36	56	0.1	448.6	448.6	448.5	0.0
AB	23,621	8	7	0.7	451.9	451.9	451.9	0.0
AC	23,884	5	3	1.5	452.2	452.2	452.3	0.0

[1]Stream Distance in Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

RODY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SOUTH CREEK TRIBUTARY NO. 1								
A	570	23	60	2.8	609.1	609.1	609.1	0.0
B	1,170	24	58	2.9	610.6	610.6	610.6	0.0
C	1,730	32	77	2.2	611.8	611.8	611.8	0.0
D	2,330	23	67	2.5	612.8	612.8	612.8	0.0
E	2,900	31	80	2.1	613.6	613.6	613.6	0.0
F	3,530	16	60	2.8	614.6	614.6	614.6	0.0
G	3,650	32	89	1.9	614.8	614.8	614.8	0.0
H	4,270	29	78	2.2	615.4	615.4	615.4	0.0
I	4,880	20	62	2.7	616.3	616.3	616.3	0.0
J	5,510	18	49	2.6	617.6	617.6	617.6	0.0
K	6,130	22	75	1.7	618.5	618.5	618.5	0.0
L	6,740	25	84	1.5	618.9	618.9	618.9	0.0
M	7,340	24	82	1.6	619.2	619.2	619.2	0.0
N	7,460	19	53	2.4	619.3	619.3	619.3	0.0
O	4,910	23	59	2.2	620.2	620.2	620.2	0.0
P	7,940	23	57	2.3	620.2	620.2	620.2	0.0
Q	8,550	20	63	2.0	621.1	621.1	621.1	0.0
R	9,070	25	92	1.4	621.4	621.4	621.5	0.1
S	9,650	25	115	1.1	621.4	621.4	621.7	0.3
T	10,210	30	111	1.2	621.4	621.4	621.8	0.4
U	11,110	30	113	1.1	621.5	621.5	622.1	0.6
V	11,640	40	178	0.7	621.5	621.5	622.2	0.7
W	12,210	40	174	0.7	621.5	621.5	622.2	0.7
X	12,790	40	142	0.9	621.5	621.5	622.3	0.8
Y	13,170	40	123	1.0	621.5	621.5	622.4	0.9
Z	13,270	28	100	1.3	621.5	621.5	622.4	0.9

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SOUTH CREEK TRIBUTARY NO. 1								
AA	13,630	24	94	1.4	621.8	621.8	622.6	0.8
AB	13,710	28	105	1.2	622.6	622.6	622.6	0.0
AC	14,250	30	70	1.8	622.7	622.7	622.9	0.2
AD	14,860	40	149	0.8	622.8	622.8	623.2	0.4
AE	15,440	40	122	0.9	622.8	622.8	623.3	0.5
AF	15,970	40	117	1.0	622.8	622.8	623.4	0.6
AG	16,620	40	92	1.2	622.8	622.8	623.6	0.8
AH	17,120	40	92	0.9	623.0	623.0	623.8	0.8
AI	17,760	13	11	5.2	627.2	627.2	627.2	0.0
AJ	18,240	65	33	1.8	633.3	633.3	633.3	0.0
AK	18,630	18	13	4.3	637.4	637.4	637.4	0.0
AL	18,730	30	81	0.7	642.7	642.7	642.7	0.0
AM	19,660	20	13	4.5	654.7	654.7	654.7	0.0
AN	20,300	20	36	1.6	660.2	660.2	660.3	0.1
AO	20,870	14	15	2.5	661.8	661.8	661.8	0.0
AP	21,500	15	21	1.8	664.1	664.1	664.2	0.1
AQ	22,150	10	8	4.8	669.5	669.5	669.5	0.0

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

SOUTH CREEK TRIBUTARY CREEK NO. 1

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SOUTH CREEK TRIBUTARY NO. 4								
A	500	30	57	1.2	524.5	524.5	524.6	0.1
B	1,060	30	46	1.5	524.6	524.6	525.1	0.5
C	1,130	21	52	1.3	524.8	524.8	524.8	0.0
D	1,630	30	53	1.3	525.0	525.0	525.0	0.0
E	2,200	30	68	1.0	525.0	525.0	525.2	0.2
F	2,780	30	80	0.9	525.0	525.0	525.4	0.4
G	3,350	30	77	0.9	525.0	525.0	525.5	0.5
H	3,910	30	76	0.9	525.0	525.0	525.7	0.7
I	4,490	30	71	1.0	525.0	525.0	525.8	0.8

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SOUTH PRAIRIE CREEK								
A	0	87	1,346	7.2	301.7	301.7	302.7	1.0
B	300	91	1,214	8.0	302.0	302.0	303.0	1.0
C	960	139	1,158	8.4	303.1	303.1	303.9	0.8
D	1,770	162	1,724	5.6	304.9	304.9	305.9	1.0
E	2,625	177	1,468	6.6	305.8	305.8	306.6	0.8
F	3,475	514	3,598	2.7	307.8	307.8	308.6	0.8
G	4,245	315	1,775	5.5	308.4	308.4	309.3	0.9
H	4,995	395	1,580	6.1	309.9	309.9	310.8	1.0
I	5,405	217	1,201	6.7	311.4	311.4	312.4	0.9
J	5,520	149	959	8.4	311.6	311.6	312.5	0.9
K	5,565	149	1,004	8.0	312.0	312.0	312.8	0.8
L	5,775	212	1,207	6.7	312.8	312.8	313.7	1.0
M	6,875	274	1,880	5.2	315.7	315.7	316.3	0.6
N	7,665	348	1,781	5.5	316.9	316.9	317.9	1.0
O	8,485	396	1,798	5.4	320.4	320.4	321.2	0.8
P	9,255	430	2,266	4.3	322.3	322.3	323.3	1.0
Q	10,205	410	1,522	6.4	324.5	324.5	325.4	1.0
R	11,035	350	1,601	6.1	327.8	327.8	328.5	0.7
S	12,160	353	1,758	5.5	332.7	332.7	333.6	0.9
T	12,920	283	1,282	7.6	336.0	336.0	337.0	1.0
U	13,320	155	962	10.1	337.5	337.5	338.4	1.0
V	13,585	135	872	11.1	339.0	339.0	339.9	0.9
W	13,685	111	1,014	9.6	340.6	340.6	341.3	0.8
X	13,730	111	1,045	9.3	341.1	341.1	341.7	0.6
Y	13,855	135	1,105	8.8	342.1	342.1	342.3	0.1
Z	14,565	420	2,201	4.4	343.8	343.8	344.6	0.8

[1]Feet Above Mouth

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SOUTH PRAIRIE CREEK								
AA	15,395	340	1,468	6.6	345.1	345.1	346.1	1.0
AB	16,055	525	1,753	5.5	348.7	348.7	349.6	0.9
AC	16,310	476	1,371	7.1	349.3	349.3	350.3	1.0
AD	16,745	160	813	9.4	351.8	351.8	352.3	0.5
AE	16,870	149	703	10.8	352.4	352.4	353.0	0.7
AF	16,910	159	895	8.5	353.5	353.5	354.3	0.8
AG	17,065	134	744	10.2	353.9	353.9	354.6	0.7
AH	17,630	175	916	8.3	357.3	357.3	358.0	0.7
AI	18,290	152	825	9.2	360.4	360.4	360.9	0.6
AJ	18,840	108	615	12.4	363.6	363.6	364.0	0.5
AK	19,055	176	1,364	5.6	366.9	366.9	367.8	0.9
AL	19,095	177	1,369	5.6	366.9	366.9	367.9	1.0
AM	19,200	184	1,185	6.4	367.0	367.0	368.0	1.0
AN	19,620	265	1,212	8.0	368.7	368.7	369.2	0.4
AO	19,940	200	1,306	7.4	370.5	370.5	371.5	0.9
AP	20,795	91	641	15.1	375.6	375.6	375.8	0.1
AQ	21,775	355	1,391	7.0	383.3	383.3	383.9	0.6
AR	22,535	155	1,068	8.2	385.7	385.7	386.7	1.0
AS	23,425	140	695	12.5	393.1	393.1	393.1	0.0
AT	24,135	105	800	10.9	398.1	398.1	399.0	1.0
AU	24,895	77	830	10.5	402.0	402.0	402.6	0.6
AV	25,910	67	587	14.8	406.5	406.5	406.9	0.4
AW	26,880	83	783	11.1	414.7	414.7	414.6	-0.1[2]
AX	27,705	95	610	14.3	419.7	419.7	419.3	-0.4[2]
AY	28,425	117	801	10.9	426.0	426.0	426.5	0.5
AZ	29,480	100	781	11.1	431.6	431.6	432.1	0.6

[1]Feet Above Mouth

[2]Although FEMA guidelines indicate that negative surcharge values are to be avoided, these negative values have been retained because the floodway has been set at the edge of the active channel at these cross sections.

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SOUTH PRAIRIE CREEK								
BA	30,345	105	803	10.8	435.5	435.5	436.4	0.9
BB	30,455	86	595	14.6	435.7	435.7	436.0	0.3
BC	30,485	91	740	11.8	437.6	437.6	437.6	0.0
BD	30,605	210	1,198	7.3	439.4	439.4	439.4	0.0
BE	30,760	215	1,269	6.9	439.5	439.5	439.5	0.0
BF	30,805	141	805	10.8	440.1	440.1	440.1	0.0
BG	30,870	141	928	9.4	440.5	440.5	440.5	0.0
BH	30,985	185	1,347	6.5	442.4	442.4	442.4	0.0
BI	31,410	340	1,656	5.3	443.2	443.2	443.2	0.0
BJ	32,540	117	866	10.0	448.5	448.5	449.4	0.9
SPLIT REACH 2								
A	490	242	1,054	1.6	312.5	312.5	313.5	1.0
B	840	100	358	4.6	313.2	313.2	313.9	0.7
SPLIT REACH 4								
A	600	300	661	3.0	353.8	353.8	354.6	0.8
B	1,450	530	1,040	1.9	356.6	356.6	357.6	1.0
C	2,330	185	310	6.5	362.6	362.6	362.6	0.0
D	2,750	145	464	4.3	367.8	367.8	368.5	0.6

[1]Feet Above Mouth

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

SOUTH PRAIRIE CREEK AND SPLIT REACHES

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SPANAWAY CREEK								
A	2,640	22	24	4.8	284.4	284.4	284.4	0.0
B	2,656	28	93	0.7	284.8	284.8	284.8	0.0
C	3,059	28	16	4.1	289.8	289.8	289.8	0.0
D	3,429	30	34	1.9	292.2	292.2	292.4	0.2
E	3,464	17	14	5.0	292.4	292.4	292.4	0.0
F	3,477	14	20	3.3	292.8	292.8	292.8	0.0
G	3,491	16	21	3.2	292.9	292.9	292.9	0.0
H	3,508	45	79	0.9	293.1	293.1	293.1	0.0
I	4,848	521	113	0.6	293.5	293.5	293.6	0.1
J	5,671	63	59	1.1	294.0	294.0	294.0	0.0
K	5,912	14	31	2.2	294.2	294.2	294.3	0.1
L	5,945	32	64	1.1	294.3	294.3	294.3	0.0
M	5,961	33	67	1.0	294.4	294.4	294.4	0.1
N	5,992	24	40	1.7	294.4	294.4	294.4	0.1
O	6,068	23	35	1.9	294.5	294.5	294.5	0.1
P	6,197	22	33	2.1	294.7	294.7	294.7	0.0
Q	6,213	22	33	2.0	294.7	294.7	294.8	0.1
R	6,244	24	43	1.6	294.8	294.8	294.8	0.0
S	6,404	25	59	1.1	294.9	294.9	294.9	0.0
T	6,853	19	53	1.3	295.1	295.1	295.1	0.0
U	6,857	20	58	1.2	295.4	295.4	295.4	0.0
V	6,872	24	51	1.3	295.4	295.4	295.4	0.0
W	6,890	26	53	1.3	295.5	295.5	295.5	0.0
X	6,979	26	59	1.1	295.5	295.5	295.5	0.0
Y	7,028	23	58	1.2	295.5	295.5	295.5	0.0
Z	7,096	23	57	1.2	295.6	295.6	295.6	0.0

[1]Feet Above Confluence with Clover Creek

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SPANAWAY CREEK								
AA	7,109	25	45	1.5	295.6	295.6	295.6	0.0
AB	7,574	19	24	2.8	296.4	296.4	296.4	0.0
AC	7,593	19	28	2.4	296.6	296.6	296.6	0.0
AD	8,016	25	17	4.0	299.6	299.6	299.6	0.0
AE	8,045	28	62	1.1	300.0	300.0	300.0	0.0
AF	8,059	28	64	1.0	300.0	300.0	300.0	0.0
AG	8,175	31	53	1.3	300.0	300.0	300.0	0.0
AH	8,242	28	40	1.7	300.1	300.1	300.1	0.0
AI	8,257	27	35	1.9	300.2	300.2	300.2	0.0
AJ	8,280	31	40	1.7	300.2	300.2	300.2	0.0
AK	8,430	35	61	1.1	300.4	300.4	300.4	0.0
AL	8,772	31	51	2.2	300.7	300.7	301.0	0.3
AM	8,804	21	32	3.5	300.7	300.7	301.0	0.3
AN	8,821	21	33	3.4	300.9	300.9	301.1	0.2
AO	8,875	31	55	2.0	301.3	301.3	301.4	0.1
AP	9,438	95	130	0.9	301.8	301.8	302.0	0.2
AQ	10,001	54	63	1.8	302.5	302.5	302.5	0.0
AR	10,055	56	47	2.5	302.6	302.6	302.6	0.0
AS	10,062	57	51	2.3	302.7	302.7	302.7	0.0
AT	10,114	66	91	1.2	302.8	302.8	302.9	0.1
AU	10,732	109	34	3.7	306.9	306.9	306.9	0.0
AV	11,064	23	29	3.9	311.8	311.8	311.8	0.0
AW	11,171	23	22	5.0	313.0	313.0	313.0	0.0
AX	11,178	20	134	0.8	318.7	318.7	318.7	0.0
AY	11,193	23	151	0.7	318.7	318.7	318.7	0.0
AZ	11,665	70	144	0.8	318.8	318.8	318.8	0.0

[1]Feet Above Confluence with Clover Creek

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SPANAWAY CREEK								
BA	12,112	20	20	5.6	321.3	321.3	321.3	0.0
BB	12,224	56	78	3.5	322.7	322.7	322.7	0.0
BC	12,320	27	41	2.7	323.9	323.9	323.9	0.0
BD	12,370	61	125	0.7	324.0	324.0	324.0	0.0
BE	12,513	47	47	2.0	324.0	324.0	324.1	0.1
BF	12,638	72	26	3.6	325.0	325.0	324.9	0.1

[1]Feet Above Confluence with Clover Creek

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

SPANAWAY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWAN CREEK								
D-I[2]								
J	166	54	161	2.8	321.7	321.7	321.7	0.0
K	550	47	50	5.9	326.5	326.5	326.5	0.0
L	1,112	17	47	6.4	336.9	336.9	337.2	0.3
M	1,801	23	54	5.5	345.1	345.1	345.1	0.0
N	1,838	23	63	4.7	345.5	345.5	345.6	0.1
O	1,838	36	46	6.5	351.3	351.3	351.3	0.0
P	1,940	41	185	1.7	358.0	358.0	358.0	0.0
Q	2,025	48	102	2.9	358.0	358.0	358.0	0.0
R	2,607	37	49	6.1	365.6	365.6	365.6	0.0
S	3,217	24	46	6.5	374.8	374.8	374.8	0.0
T	3,396	19	37	8.1	378.5	378.5	378.5	0.0
U	3,453	26	74	4.2	379.7	379.7	379.7	0.0
V	3,674	24	70	3.6	385.7	385.7	385.7	0.0
W	3,763	17	49	5.1	386.2	386.2	386.2	0.0
X	4,480	14	41	6.1	394.7	394.7	394.7	0.0
Y	5,108	19	81	3.1	397.8	397.8	397.9	0.1
Z	5,760	25	101	2.5	398.7	398.7	399.2	0.5
AA	6,311	22	62	4.0	399.5	399.5	400.5	1.0
AB	6,453	30	91	2.8	400.7	400.7	401.0	0.3
AC	6,512	30	114	2.2	402.7	402.7	403.3	0.6
AD	6,603	29	127	2.0	402.7	402.7	403.5	0.8
AE	7,003	45	209	1.2	403.0	403.0	403.9	0.9
AF	7,660	20	66	3.7	403.4	403.4	404.4	1.0
AG	7,844	18	49	5.1	404.8	404.8	405.1	0.3
AH	7,909	32	169	1.9	407.1	407.1	407.5	0.4
AI	8,024	22	133	1.9	407.2	407.2	407.5	0.3

[1]Stream Distance in Feet From 64th St East

[2]No floodway

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWAN CREEK								
AJ	8,105	22	134	1.8	407.2	407.2	407.6	0.4
AK	9,082	40	189	1.3	407.3	407.3	408.1	0.8
AL	9,196	50	202	1.2	407.3	407.3	408.2	0.9
AM	9,231	50	220	1.1	407.4	407.4	408.2	0.8
AN	9,308	58	274	0.9	407.4	407.4	408.3	0.9
AO	10,183	32	135	1.8	407.6	407.6	408.6	1.0
AP	10,669	24	112	2.2	408.2	408.2	408.9	0.7
AQ	11,198	29	118	2.1	408.8	408.8	409.3	0.5
AR	11,532	21	80	3.1	409.3	409.3	409.7	0.4
AS	11,602	21	84	3.0	409.5	409.5	409.8	0.3
AT	11,635	21	126	2.0	411.1	411.1	411.9	0.8
AU	11,676	21	126	2.0	411.1	411.1	412.0	0.9
AV	11,922	26	164	1.5	411.2	411.2	412.1	0.9
AW	12,067	32	176	1.4	411.3	411.3	412.1	0.8
AX	12,125	47	275	0.7	411.8	411.8	412.8	1.0
AY	12,206	50	231	0.8	411.8	411.8	412.8	1.0
AZ	12,326	50	220	0.8	411.8	411.8	412.8	1.0
BA	12,848	19	100	1.8	411.9	411.9	412.9	1.0
BB	13,458	35	129	1.4	412.5	412.5	413.5	1.0
BC	14,438	21	89	2.0	413.8	413.8	414.6	0.8
BD	14,924	21	100	1.8	414.1	414.1	414.9	0.8
BE	15,073	19	98	1.8	414.1	414.1	415.0	0.9
BF	15,137	18	108	1.7	415.6	415.6	416.3	0.7
BG	15,194	14	87	2.1	415.6	415.6	416.3	0.7
BH	15,759	90	421	0.4	415.6	415.6	416.5	0.9
BI	16,294	70	210	0.9	415.7	415.7	416.6	0.9

[1]Stream Distance in Feet From 64th St East

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWAN CREEK								
BJ	16,473	70	324	1.3	415.7	415.7	416.7	1.0
BK	16,694	70	445	1.4	418.6	418.6	419.6	1.0
BL	16,791	75	404	0.5	418.7	418.7	419.6	1.0
BM	17,072	60	377	0.5	418.7	418.7	419.6	0.9
BN	17,646	64	345	0.5	418.7	418.7	419.6	0.9
BO	17,755	70	382	0.5	418.7	418.7	419.6	0.9
BP	17,851	70	360	0.5	418.7	418.7	419.7	1.0
BQ	17,898	70	289	0.6	418.7	418.7	419.7	1.0
BR	18,128	70	320	0.6	418.7	418.7	419.7	1.0

[1]Stream Distance in Feet From 64th St East

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

SWAN CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WAPATO I CREEK								
CD	30,896	20	124	1.1	34.1	34.1	35.1	0.9
CE	31,025	26	164	0.8	34.2	34.2	35.1	0.9
CF	31,308	24	126	1.0	34.2	34.2	35.2	1.0
CG	31,323	40	174	0.8	34.2	34.2	35.2	1.0
CH	31,356	39	224	0.6	34.2	34.2	35.2	1.0
CI	31,856	34	163	1.2	34.3	34.3	35.3	1.0
CJ	31,912	31	179	0.9	34.5	34.5	35.5	1.0
CK	32,016	40	207	0.6	34.5	34.5	35.5	1.0
CL	33,579	94	240	0.5	34.6	34.6	35.6	1.0
CM	33,608	79	207	0.6	34.6	34.6	35.6	1.0
CN	33,941	50	168	0.7	34.7	34.7	35.7	1.0
CO	33,959	50	170	0.7	34.7	34.7	35.7	1.0
CP	34,657	22	95	2.3	35.1	35.1	36.0	0.9
CQ	34,713	23	110	2.0	35.7	35.7	36.5	0.8
CR	35,223	39	177	1.3	36.0	36.0	36.7	0.7
CS	35,701	70	271	0.8	36.1	36.1	36.8	0.7
CT	35,719	85	127	1.7	35.8	35.8	36.8	1.0
CU	35,764	14	83	2.7	36.9	36.9	37.3	0.4
CV	35,779	25	133	1.7	37.0	37.0	37.4	0.4
CW	35,820	36	214	1.0	37.0	37.0	37.4	0.4
CX	35,863	28	144	1.5	37.0	37.0	37.4	0.4
CY	35,874	27	136	1.6	37.0	37.0	37.5	0.5
CZ	36,141	48	240	1.0	37.0	37.0	37.5	0.5

[1]Stream Distance in Feet Above Culvert Inlet to Blair Waterway

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WAPATO I CREEK								
DA	36,249	22	94	2.5	37.0	37.0	37.5	0.5
DB	36,283	29	130	1.8	37.0	37.0	37.8	0.8
DC	36,299	33	154	1.5	37.0	37.0	37.8	0.8
DD	36,855	70	320	0.7	37.1	37.1	37.9	0.8
DE	36,869	70	349	0.7	37.1	37.1	38.1	1.0
DF	37,032	70	336	0.7	37.1	37.1	38.1	1.0
DG	37,094	70	214	1.1	37.1	37.1	38.1	1.0
DH	37,111	90	248	0.9	37.2	37.2	38.1	0.9
DI	37,162	98	437	0.5	37.2	37.2	38.1	0.9
DJ	38,446	100	328	0.7	37.3	37.3	38.2	0.9
DK	38,457	100	305	0.8	37.3	37.3	38.2	0.9
DL	38,478	100	305	0.8	37.3	37.3	38.2	0.9
DM	38,515	100	297	0.8	37.3	37.3	38.2	0.9
DN	38,839	84	210	1.1	37.4	37.4	38.3	0.9
DO	38,859	84	211	1.1	37.4	37.4	38.3	0.9
DP	39,116	50	150	1.6	37.6	37.6	38.5	0.9
DQ	39,141	50	82	4.4	37.6	37.6	38.4	0.8
DR	39,165	40	191	1.2	39.3	39.3	40.2	0.9
DS	39,185	43	256	0.9	39.3	39.3	40.2	0.9
DT	39,869	38	261	0.4	39.4	39.4	40.3	0.9
DU	40,084	31	188	0.5	39.4	39.4	40.3	0.9
DV	40,114	30	166	0.6	39.4	39.4	40.3	0.9
DW	40,294	20	120	0.8	39.4	39.4	40.3	0.9
DX	40,321	24	137	0.7	39.4	39.4	40.3	0.9
DY	40,877	33	121	0.8	39.4	39.4	40.4	1.0
DZ	40,897	35	131	0.7	39.4	39.4	40.4	1.0

[1]Stream Distance in Feet Above Culvert Inlet to Blair Waterway

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WAPATO I CREEK								
EA	42,465	38	165	0.6	39.8	39.8	40.7	0.9
EB	42,554	9	45	2.0	39.8	39.8	40.8	1.0
EC	42,569	10	44	2.1	39.8	39.8	40.8	1.0
ED	42,591	40	150	0.6	39.9	39.9	40.9	1.0
EE	42,763	26	98	0.9	39.9	39.9	40.9	1.0
EF	42,782	26	99	0.9	39.9	39.9	40.9	1.0
EG	42,907	33	160	0.6	40.0	40.0	40.9	0.9

[1]Stream Distance in Feet Above Culvert Inlet to Blair Waterway

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

WAPATO I CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WAPATO II CREEK								
A	0	83	443	0.6	48.8	48.8	48.8	0.0
B	517	66	651	0.4	48.8	48.8	48.8	0.0
C	1,230	61	504	0.5	48.8	48.8	48.8	0.0
D	1,885	21	164	1.7	48.8	48.8	48.9	0.1
E	1,927	18	118	2.3	48.8	48.8	48.8	0.0
F	2,196	10	80	3.4	48.8	48.8	49.1	0.3
G	2,260	10	82	3.3	48.8	48.8	49.1	0.3
H	2,915	54	327	0.8	48.9	48.9	49.7	0.8
I	3,553	59	218	0.6	49.0	49.0	49.9	0.9
J[2]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
K[2]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L	4,235	22	143	1.0	53.9	53.9	54.7	0.8
M	4,499	25	197	0.8	53.9	53.9	54.8	0.9
N	4,551	25	181	0.9	54.0	54.0	54.9	0.9
O	5,269	29	169	0.9	54.1	54.1	55.1	1.0
P	5,333	38	194	0.8	55.9	55.9	55.9	0.0
Q	6,056	77	507	0.3	55.9	55.9	56.0	0.1
R	6,114	20	126	1.2	56.0	56.0	56.0	0.0
S	6,700	20	146	1.1	56.0	56.0	56.1	0.1
T	6,764	22	167	0.9	56.0	56.0	56.1	0.1
U	6,801	38	266	0.6	56.0	56.0	56.1	0.1
V	6,959	118	871	0.2	56.0	56.0	56.2	0.2
W	7,202	19	132	1.2	56.0	56.0	56.1	0.1
X	7,249	60	520	0.3	56.0	56.0	56.2	0.2
Y	8,036	53	367	0.4	56.0	56.0	56.2	0.2

[1]Feet Above Culvert Inlet to Puyallup River

[2]Floodway analysis not performed for overland flow through residential and commercial areas in vicinity of Milwaukee Avenue.

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY[2] (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WHITE RIVER								
A	668	210	3,569	4.3	51.0	51.0	51.0	0.0
B	1,151	183	3,410	4.5	51.1	51.1	51.1	0.0
C	1,285	183	3,418	4.5	51.1	51.1	51.2	0.1
D	1,835	196	3,313	4.7	51.3	51.3	51.4	0.1
E	3,326	126	2,576	6.0	51.9	51.9	52.0	0.1
F	3,589	167	3,633	4.3	52.3	52.3	52.5	0.2
G	3,675	167	3,630	4.3	52.3	52.3	52.5	0.2
H	3,898	242	3,836	4.0	52.4	52.4	52.6	0.2
I	5,281	186	3,206	4.8	52.8	52.8	53.0	0.2
J	5,732	187	2,864	5.4	53.0	53.0	53.2	0.2
K	5,764	187	2,875	5.4	53.0	53.0	53.2	0.2
L	6,835	324	3,418	5.5	53.7	53.7	53.8	0.1
M	7,250	217	3,102	5.0	53.9	53.9	54.1	0.2
N	7,356	217	3,122	5.0	53.9	53.9	54.2	0.2
O	8,393	154	3,009	5.2	54.4	54.4	54.7	0.3
P	9,018	530	3,686	4.2	54.6	54.6	55.0	0.4
Q	9,171	530	3,402	4.6	54.8	54.8	55.2	0.4
R	11,210	540	3,960	3.9	55.6	55.6	56.1	0.5
S	12,246	1,340	7,853	2.0	55.8	55.8	56.6	0.8
T	14,423	1,220	6,730	2.3	56.1	56.1	57.1	1.0
U	15,586	702	3,625	4.3	56.4	56.4	57.4	1.0
V	16,939	1,070	4,224	3.7	57.4	57.4	58.4	1.0
W	18,058	1,520	5,617	2.8	58.3	58.3	59.3	1.0
X	18,598	1,420	6,034	2.6	58.7	58.7	59.6	0.9
Y	19,327	600	4,400	3.5	58.9	58.9	59.8	0.9
Z	20,277	590	3,003	5.2	59.4	59.4	60.3	0.9

[1]Feet Above Mouth

[2]Elevations Computed Assuming Puyallup River Elevation of 50.74 ft NAVD

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

WHITE RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WHITE RIVER								
AA	21,071	710	4,084	3.8	60.4	60.4[2]	61.4	1.0
AB	23,977	421	2,385	6.5	64.3	64.3[2]	65.0	0.7
AC	24,461	328	2,453	6.3	65.3	65.3[2]	65.9	0.6
AD	24,937	290	2,267	6.8	66.3	66.3[2]	66.8	0.5
AE	25,413	251	2,058	7.5	67.4	67.4[2]	67.8	0.4
AF	25,888	213	1,802	8.6	68.8	68.8[2]	69.1	0.3
AG	26,260	228	2,169	7.1	70.4	70.4[2]	70.6	0.2
AH	26,375	228	2,246	6.9	70.7	70.7[2]	71.0	0.3
AI	26,934	494	4,009	3.9	71.9	71.9[2]	72.2	0.3
AJ	27,403	495	4,589	3.4	72.3	72.3[2]	72.6	0.4
AK	27,773	527	2,639	5.9	72.5	72.5[2]	72.7	0.2
AL	27,902	670	2,960	5.2	73.0	73.0[2]	73.1	0.1
AM	28,768	620	2,784	5.6	74.6	74.6[2]	75.6	1.0
AN	117,340	523	2,068	7.5	587.9	587.9	587.9	0.0
AO	118,180	224	1,457	10.6	594.0	594.0	594.0	0.0
AP	119,050	307	1,641	9.5	601.8	601.8	601.9	0.1
AQ	119,940	194	1,433	10.8	608.5	608.5	608.8	0.3
AR	120,880	255	1,610	9.6	615.3	615.3	616.0	0.7
AS	121,820	232	1,643	9.4	621.5	621.5	622.2	0.7
AT	122,040	175	1,213	12.8	623.5	623.5	623.9	0.4
AU	122,290	261	1,957	7.9	627.1	627.1	627.1	0.0
AV	122,680	244	1,782	8.7	628.6	628.6	628.6	0.0
AW	122,805	320	1,339	11.6	632.0	632.0	632.0	0.0
AX	122,960	255	1,744	8.9	633.9	633.9	633.9	0.0
AY	123,130	252	1,951	7.9	635.1	635.1	635.1	0.0
AZ	124,090	340	1,350	11.5	640.8	640.8	641.5	0.7

[1]Feet Above Mouth

[2]Elevations Computed Assuming Puyallup River Elevation of 50.74 ft NAVD

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

WHITE RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WHITE RIVER								
BA	125,190	318	2,151	7.2	650.0	650.0	650.7	0.7
BB	126,240	245	1,229	12.6	658.4	658.4	658.4	0.0
BC	126,880	313	2,291	6.8	664.4	664.4	664.8	0.4
BD	127,210	340	1,906	8.1	665.6	665.6	666.0	0.4
BE	128,000	352	2,158	7.2	669.9	669.9	670.0	0.1
BF	128,060	352	1,387	11.2	671.4	671.4	671.4	0.0
BG	128,730	347	1,650	9.4	679.2	679.2	679.7	0.5
BH	130,420	408	2,340	6.6	690.9	690.9	691.7	0.8
BI	130,890	457	2,290	6.8	693.6	693.6	694.1	0.5
BJ	131,950	296	1,590	9.8	699.0	699.0	699.9	0.9
BK	132,690	292/140[2]	1,691	9.2	704.5	704.5	704.5	0.0
BL-CK[3]								

[1]Feet Above Mouth

[2]Width/Width Within Pierce County

[3]Floodway Not Calculated

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

WHITE RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WOODLAND CREEK								
B	2,080	44	166	3.7	34.9	34.9	34.9	0.0
C	2,770	7	11	7.2	40.0	40.0	40.0	0.0
D	3,430	6	11	7.3	68.7	68.7	68.7	0.0
E	4,318	8	25	3.5	108.4	108.4	108.5	0.1
F	4,508	4	12	7.1	115.8	115.8	116.6	0.8
G	7,838	11	8	4.8	271.2	271.2	271.2	0.0
H	8,236	5	14	2.8	288.1	288.1	288.5	0.4
I	8,476	9	8	5.8	297.7	297.7	297.7	0.0
J	8,530	13	29	1.3	300.7	300.7	301.0	0.3
K	8,680	10	25	1.6	304.9	304.9	305.2	0.3
L	9,243	4	6	5.6	321.6	321.6	321.6	0.0
M	9,368	10	20	1.5	327.4	327.4	327.9	0.5
N	9,701	6	6	5.4	338.7	338.7	338.7	0.0
O	9,966	10	18	1.7	348.0	348.0	348.1	0.1
P	10,144	18	50	0.6	355.4	355.4	355.7	0.3
Q	10,917	9	5	4.3	378.1	378.1	378.1	0.0
R	11,386	10	7	5.4	394.2	394.2	394.2	0.0
S	11,529	13	18	2.9	396.6	396.6	396.6	0.0
T	13,764	27[2]	84	0.3	411.5	411.5	411.5	0.0

[1] Stream distance in feet above mouth
[2] Floodway not mapped in Zone AH Static BFE area

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

WOODLAND CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CARBON RIVER (WITH CONSIDERATION OF LEVEE)								
PA[3]	1,385	N/A[2]	N/A[2]	N/A[2]	128.9	N/A[2]	N/A[2]	N/A[2]
PB[3]	2,095	N/A[2]	N/A[2]	N/A[2]	131.4	N/A[2]	N/A[2]	N/A[2]
PC[3]	4,885	N/A[2]	N/A[2]	N/A[2]	144.0	N/A[2]	N/A[2]	N/A[2]
PD[3]	6,065	N/A[2]	N/A[2]	N/A[2]	148.6	N/A[2]	N/A[2]	N/A[2]
CARBON RIVER (WITHOUT CONSIDERATION OF LEVEE)								
PA[3]	1,385	447	3,370	5.8	128.4	128.4	128.9	0.5
PB[3]	2,095	375	2,661	7.3	130.7	130.7	131.3	0.6
PC[3]	4,885	433	2,891	6.7	142.6	142.6	143.2	0.6
PD[3]	6,065	499	3,429	5.7	147.4	147.4	147.7	0.3

[1] Feet Above Mouth [2] Floodway computed for Without Consideration of Levee condition only [3] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

CARBON RIVER (SECLUSION AREA)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HYLEBOS CREEK								
A[3]	1,510	54	390	0.98	12.4	8.9[2]	8.9	0.0
B[3]	2,030	83	460	0.83	12.4	8.9[2]	8.9	0.0
C[3]	2,150	83	462	0.83	12.4	8.9[2]	8.9	0.0
D[3]	2,820	45	261	1.46	12.4	9.0[2]	9.0	0.0
E[3]	3,500	42	170	2.25	12.4	9.1[2]	9.1	0.0
F[3]	3,790	50	169	2.26	12.4	9.3[2]	9.3	0.0
G[3]	3,835	50	171	2.22	12.4	9.3[2]	9.3	0.0
H[3]	4,100	31	94	4.05	12.4	9.6[2]	9.6	0.0
I[3]	4,140	32	98	3.87	12.4	9.7[2]	9.7	0.0
J[3]	4,810	30	135	2.81	12.4	12.4	12.6	0.2
K[3]	5,290	25	117	3.26	12.7	12.7	13.2	0.5
L[3]	5,760	44	265	1.44	13.1	13.1	13.7	0.6
M[3]	5,890	45	236	1.61	13.6	13.6	13.8	0.2
N[3]	6,130	44	177	2.15	13.7	13.7	13.9	0.2
O[3]	6,260	40	2,307	1.84	14.2	14.2	14.5	0.3
P[3]	6,780	33	155	2.45	14.4	14.4	14.6	0.2
O[3]	7,270	31	154	2.33	14.8	14.8	15.0	0.2
R[3]	7,660	52	248	1.44	15.1	15.1	15.3	0.2
S[3]	7,750	53	252	1.42	15.5	15.5	15.7	0.2
T[3]	8,580	45	184	1.95	15.7	15.7	16.0	0.3
U[3]	8,630	39	209	1.71	15.9	15.9	16.1	0.2
V[3]	9,270	46	233	1.33	16.1	16.1	16.4	0.3
W[3]	9,390	37	170	1.83	16.1	16.1	16.4	0.3
X[3]	9,750	31	144	2.15	16.4	16.4	16.7	0.3
Y[3]	9,830	35	214	1.45	16.8	16.8	16.8	0.0

[1] Feet Above Mouth [2] Elevation computed without consideration of backwater from Puget Sound (at Commencement Bay) [3] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

HYLEBOS CREEK (SECLUSION AREA)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER								
SA[5]	12,960	318[2,3]	4,613	9.8	15.3	15.3	15.3	0.0
SB[5]	13,900	294[2,3]	4,492	10.0	16.3	16.3	16.3	0.0
SC[5]	14,740	303[2,3]	4,706	9.6	17.2	17.2	17.2	0.0
SD[5]	15,260	318[2]	4,708	9.6	17.6	17.6	17.6	0.0
SE[5]	16,040	298[2]	4,417	10.2	18.1	18.1	18.1	0.0
SF[5]	16,980	311[2]	4,782	9.4	19.1	19.1	19.1	0.0
SG[5]	17,960	318[2]	4,765	9.4	19.8	19.8	19.8	0.0
SH[5]	18,910	323[2]	4,988	9.0	20.6	20.6	20.6	0.0
SI[5]	19,880	308[2]	4,616	9.8	21.3	21.3	21.3	0.0
SJ[5]	20,760	315[2]	5,008	9.0	22.3	22.3	22.3	0.0
SK[5]	21,700	294[2]	5,065	8.9	23.0	23.0	23.0	0.0
SL[5]	22,710	342[2]	5,753	7.8	24.0	24.0	24.0	0.0
SM[5]	23,650	370[2]	6,077	7.4	24.5	24.5	24.5	0.0
SN[5]	24,590	329[2]	5,520	8.2	24.9	24.9	24.9	0.0
SO[5]	25,490	323[2]	5,233	8.6	25.4	25.4	25.4	0.0
SP[5]	26,490	371[2]	6,166	7.3	26.3	26.3	26.3	0.0
SQ[5]	27,480	435[2]	7,082	6.4	26.9	26.9	26.9	0.0
SR[5]	28,430	390[2]	6,055	7.4	27.3	27.3	27.3	0.0
SS[5]	29,340	345[2]	5,679	7.9	27.8	27.8	27.8	0.0
ST[5]	30,300	292[2]	4,896	9.2	28.3	28.3	28.3	0.0
SU[5]	30,630	308[2]	4,983	9.0	28.6	28.6	28.6	0.0
SV[5]	31,620	315[2]	4,906	9.2	29.4	29.4	29.4	0.0
SW[5]	32,710	288[2]	4,754	9.5	30.2	30.2	30.2	0.0
SX[5]	33,680	287[2]	4,813	9.4	31.0	31.0	31.0	0.0
SY[5]	34,640	278[4]	4,729	9.5	31.7	35.2	35.2	0.0
SZ[5]	35,460	330[4]	5,768	7.8	32.7	36.2	36.2	0.0
TA[5]	36,340	364[4]	6,186	7.3	33.3	36.8	36.8	0.0
TB[5]	37,250	307[4]	5,258	8.6	33.6	37.1	37.1	0.0

[1] Feet above mouth [2] Floodway is contained within levees [3] Floodway lies partially within area not included [4] Width / width within Unincorporated Areas of Pierce County [5] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

PUYALLUP RIVER (SECLUSION AREA)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER (CONTINUED)								
TC[3,5]	38,100	362 / 347[2]	5,938	7.6	34.4	34.4	34.4	0.0
TD[3,5]	39,150	293	5,235	8.6	35.1	35.1	35.1	0.0
TE[3,5]	40,090	280	4,789	9.4	35.4	35.4	35.5	0.1
TF[3,5]	40,990	371	6,202	7.3	36.5	36.5	36.7	0.2
TG[3,5]	42,030	382	5,996	7.5	37.2	37.2	37.4	0.2
TH[3,5]	43,010	366	5,603	8.0	37.8	37.8	38.0	0.2
TI[3,5]	43,370	351	5,270	8.5	38.0	38.0	38.1	0.1
TJ[5]	93,099	325	3,324	11.1	122.7	122.7	123.4	0.7
TK[5]	95,986	490	3,781	4.9	130.9	130.9	131.1	0.2
TL[5]	97,556	167	1,537	12.0	131.6	131.6	132.4	0.8
TM[5]	98,416	393	2,057	8.9	135.2	135.2	135.2	0.0
TN[5]	100,156	269	1,930	9.5	138.7	138.7	139.3	0.6
TO[5]	101,116	452	2,701	6.8	142.8	142.8	142.9	0.1
TP[5]	103,166	490	2,476	7.4	147.3	147.3	147.7	0.4
TQ[5]	104,946	666	2,742	6.7	152.1	152.1	152.9	0.8
TR[5]	107,066	641	2,425	7.6	159.6	159.6	159.9	0.3
TS[5]	108,336	646	1,918	9.6	165.3	165.3	166.2	0.9
TT[5]	110,346	717	2,239	8.2	173.0	173.0	173.8	0.8
TU[5]	111,286	467	1,841	10.0	178.1	178.1	178.2	0.1
TV[5]	112,336	618	2,125	8.7	182.9	182.9	183.2	0.3
TW[5]	112,876	555	1,968	9.3	185.5	185.5	185.6	0.1
TX[5]	114,206	565	1,982	9.3	193.8	193.8	193.8	0.0
TY[5]	114,746	421	1,558	11.8	197.2	197.2	197.2	0.0
TZ[5]	119,849	365[4]	1,571	11.7	226.6	226.6	226.8	0.2
UA[5]	121,019	458[4]	1,716	10.7	234.8	234.8	235.1	0.3
UB[5]	121,719	383 / 283[2]	1,614	11.4	240.5	240.5	240.5	0.0
UC[5]	122,389	414	1,664	11.1	244.7	244.7	244.7	0.0
UD[5]	123,419	674	1,927	9.5	252.5	252.5	252.5	0.0
UE[5]	124,539	560	1,774	10.4	261.1	261.1	261.7	0.6

[1] Feet above mouth [2] Width / width within Unincorporated Areas of Pierce County [3] Cross section located entirely within City of Puyallup [4] Floodway lies entirely within area not included [5] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER (CONTINUED)								
UF[5]	125,219	377	1,597	11.5	267.1	267.1	267.3	0.2
UG[5]	126,109	471	1,855	9.9	273.1	273.1	273.9	0.8
UH[5]	126,889	595	2,034	9.0	279.9	279.9	279.9	0.0
UI[5]	127,489	732	2,261	8.1	286.3	286.3	286.3	0.0
UJ[5]	128,579	721	1,801	10.2	294.3	294.3	294.3	0.0

[1] Feet above mouth [2] Width / width within Unincorporated Areas of Pierce County [3] Cross section located entirely within City of Puyallup [4] Floodway lies entirely within area not included [5] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER (WITH CONSIDERATION OF LEVEE)								
OE[3]	115,549	N/A[2]	N/A[2]	N/A[2]	203.2	N/A[2]	N/A[2]	N/A[2]
OF[3]	116,239	N/A[2]	N/A[2]	N/A[2]	206.8	N/A[2]	N/A[2]	N/A[2]
OG[3]	116,859	N/A[2]	N/A[2]	N/A[2]	211.2	N/A[2]	N/A[2]	N/A[2]
OH[3]	117,379	N/A[2]	N/A[2]	N/A[2]	214.5	N/A[2]	N/A[2]	N/A[2]
OI[3]	117,839	N/A[2]	N/A[2]	N/A[2]	215.4	N/A[2]	N/A[2]	N/A[2]
OJ[3]	118,439	N/A[2]	N/A[2]	N/A[2]	221.5	N/A[2]	N/A[2]	N/A[2]
OK[3]	119,849	N/A[2]	N/A[2]	N/A[2]	228.0	N/A[2]	N/A[2]	N/A[2]
OL[3]	121,019	N/A[2]	N/A[2]	N/A[2]	236.5	N/A[2]	N/A[2]	N/A[2]
OM[3]	121,719	N/A[2]	N/A[2]	N/A[2]	243.7	N/A[2]	N/A[2]	N/A[2]

[1] Feet above mouth [2] Floodway computed without consideration of levee [3] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PUYALLUP RIVER (WITHOUT CONSIDERATION OF LEVEE)								
OA[4]	112,336	618[2]	2,125	8.7	182.9	182.9	183.2	0.3
OB[4]	112,876	755[2]	2,641	7.0	185.5	185.5	185.8	0.3
OC[4]	114,206	1,618 / 560[3]	2,643	7.0	194.3	194.3	194.3	0.0
OD[4]	114,746	1,782 / 1,190[3]	2,509	7.3	197.7	197.7	197.7	0.0
OE[4]	115,549	815	2,425	7.6	200.5	200.5	200.8	0.3
OF[4]	116,239	560	1,950	9.4	204.1	204.1	204.3	0.2
OG[4]	116,859	425	1,795	10.3	207.7	207.7	208.2	0.5
OH[4]	117,379	850	2,293	8.0	212.4	212.4	212.4	0.0
OI[4]	117,839	404	2,015	9.1	213.8	213.8	213.9	0.1
OJ[4]	118,439	653	1,932	9.5	216.9	216.9	217.5	0.6
OK[4]	119,849	365	1,568	11.7	226.6	226.6	226.8	0.2
OL[4]	121,019	458	1,716	10.7	234.8	234.8	235.1	0.3
OM[4]	121,719	383 / 100[3]	1,614	11.4	240.5	240.5	240.5	0.0

[1] Feet above mouth [2] Floodway lies entirely outside of Orting corporate limits [3] Width / width within Orting corporate limits [4] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

PUYALLUP RIVER (ORTING - SECLUSION AREA)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WAPATO CREEK								
A[2]	3,490	39	88	2.01	13.8	13.8	13.8	0.0
B[2]	4,050	22	55	3.20	14.7	14.7	14.7	0.0
C[2]	4,760	36	95	1.86	15.9	15.9	15.9	0.0
D[2]	4,840	17	64	2.79	15.9	15.9	15.9	0.0
E[2]	4,910	27	109	1.62	16.5	16.5	16.5	0.0
F[2]	5,050	29	116	1.52	16.6	16.6	16.6	0.0
G[2]	5,070	27	92	1.92	17.6	17.6	17.6	0.0
H[2]	5,790	28	109	1.63	18.0	18.0	18.0	0.0
I[2]	5,900	45	172	1.03	18.1	18.1	18.1	0.0
J[2]	6,030	62	241	0.73	18.1	18.1	18.1	0.0
K[2]	6,480	23	96	1.75	18.1	18.1	18.1	0.0
L[2]	6,570	18	96	1.76	18.7	18.7	18.7	0.0
M[2]	7,220	25	145	1.16	18.8	18.8	18.9	0.1
N[2]	7,880	21	107	1.58	18.8	18.8	19.1	0.3
O[2]	8,570	22	105	1.60	18.9	18.9	19.3	0.4
P[2]	8,630	38	172	0.98	19.4	19.4	19.8	0.4
O[2]	9,430	26	114	1.47	19.5	19.5	19.9	0.4
R[2]	10,240	30	119	1.41	19.7	19.7	20.2	0.5
S[2]	11,020	39	148	1.13	19.9	19.9	20.4	0.5
T[2]	11,520	27	114	1.48	20.1	20.1	20.6	0.5
U[2]	12,230	22	99	1.70	20.3	20.3	20.8	0.5
V[2]	12,830	28	116	1.45	20.6	20.6	21.0	0.4

[1] Feet Above Mouth [2] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA

AND INCORPORATED AREAS

FLOODWAY DATA

WAPATO CREEK (SECLUSION AREA)

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ.FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
WAPATO CREEK (CONTINUED)								
W[2]	12,940	31	111	1.43	21.2	21.2	21.6	0.4
X[2]	13,590	26	137	1.16	21.3	21.3	21.7	0.4
Y[2]	14,230	26	130	1.23	21.4	21.4	21.9	0.5
Z[2]	14,250	20	77	2.07	21.9	21.9	22.0	0.1
AA[2]	15,030	31	154	1.03	21.9	21.9	22.2	0.3
AB[2]	15,070	20	88	1.81	22.0	22.0	22.4	0.4
AC[2]	15,770	30	144	1.11	22.1	22.1	22.7	0.6
AD[2]	15,830	28	108	1.48	22.5	22.5	22.8	0.3
AE[2]	16,270	20	90	1.76	22.6	22.6	23.0	0.4
AF[2]	17,960	28	112	1.42	23.4	23.4	24.1	0.7

[1] Feet Above Mouth [2] This cross-section lies within an area that has not been updated on the FIRM at this time due to the presence of levee(s) that have not been demonstrated to meet the requirements of 44CFR Part Section 65.10 of the NFIP regulations. Please refer to the Notice to Flood Insurance Study Users page at the front of the FIS report for more information.

4.3 Base Flood Elevations

Areas within the community studied by detailed engineering methods have BFEs established in AE and VE Zones. These are the elevations of the 1-percent-annual-chance (base flood) relative to NAVD. In coastal areas affected by wave action, BFEs are generally maximum at the normal open shoreline. These elevations generally decrease in a landward direction at a rate dependent on the presence of obstructions capable of dissipating the wave energy. Where possible, changes in BFEs have been shown in 1-foot increments on the FIRM. However, where the scale did not permit, 2- or 3-foot increments were sometimes used. BFEs shown in the wave action areas represent the average elevation within the zone. Current program regulations generally require that all new construction be elevated such that the first floor, including basement, is elevated to or above the BFE in AE and VE Zones.

4.4 Velocity Zones

The USACE has established the 3-foot wave height as the criterion for identifying coastal high hazard zones (Reference 120). This was based on a study of wave action effects on structures. This criterion has been adopted by FEMA for the determination of VE zones. Because of the additional hazards associated with high-energy waves, the NFIP regulations require much more stringent floodplain management measures in these areas, such as elevating structures on piles or piers. In addition, insurance rates in VE zones are higher than those in AE zones.

The location of the VE zone is determined by the 3-foot wave as discussed previously. The detailed analysis of wave heights performed in this study allowed a much more accurate location of the VE zone to be established. The VE zone generally extends inland to the point where the 1-percent-annual-chance stillwater flood depth is insufficient to support a 3-foot wave.

5.0 INSURANCE APPLICATION

For flood insurance rating purposes, flood insurance zone designations are assigned to a community based on the results of the engineering analyses. These zones are as follows:

Zone A

Zone A is the flood insurance rate zone that corresponds to the 1-percent-annual- chance floodplains that are determined in the FIS report by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no base (1- percent-annual-chance) flood elevations (BFEs) or depths are shown within this zone.

Zone AE

Zone AE is the flood insurance rate zone that corresponds to the 1-percent- annual-chance floodplains that are determined in the FIS report by detailed methods. Whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone AH

Zone AH is the flood insurance rate zone that corresponds to areas of 1-percent-annual-chance shallow flooding (usually areas of ponding) where average depths are between 1 and 3 feet. Whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone AO

Zone AO is the flood insurance rate zone that corresponds to areas of 1-percent- annual-chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the detailed hydraulic analyses are shown within this zone.

Zone VE

Zone VE is the flood insurance rate zone that corresponds to the 1-percent- annual-chance coastal floodplains that have additional hazards associated with storm waves. Whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone X

Zone X is the flood insurance rate zone that corresponds to areas outside the 0.2- percent-annual-chance floodplain, areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile (sq. mi.), and areas protected from the base flood by levees. No BFEs or depths are shown within this zone.

6.0 FLOOD INSURANCE RATE MAP

The FIRM is designed for flood insurance and floodplain management applications.

For flood insurance applications, the map designates flood insurance rate zones as described in Section 5.0 and, in the 1-percent-annual-chance floodplains that were studied by detailed methods, shows selected whole-foot BFEs or average depths.

Insurance agents use zones and BFEs in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

For floodplain management applications, the map shows by tints, screens, and symbols, the 1- and 0.2-percent-annual-chance floodplains, floodways, and the locations of selected cross sections used in the hydraulic analyses and floodway computations.

The countywide FIRM presents flooding information for the entire geographic area of Pierce County. Previously, FIRMs were prepared for each incorporated community and the unincorporated areas of the County identified as flood-prone.

This countywide FIRM also includes flood-hazard information that was presented separately on Flood Boundary and Floodway Maps (FBFMs), where applicable. Historical data relating to the maps prepared for each community are presented in Table 8, “Community Map History.”

Within this jurisdiction there are one or more levees that have not been demonstrated by the community or levee owner(s) to meet the requirements of 44CFR Part 65.10 of the NFIP regulations as it relates to the levee’s capacity to provide 1% annual chance flood protection. Please refer to the Notice to Flood Insurance Study Users page at the front of this FIS report for more information on how this may affect the FIRM.

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISIONS DATE	FIRM EFFECTIVE DATE	FIRM REVISIONS DATE
Bonney Lake, City of	October 29, 1976	None	May 1, 1980	None
Buckley, City of	August 16, 1974	January 2, 1976	May 1, 1980	None
* Carbonado, Town of	N/A	N/A	N/A	N/A
Dupont, City of	September 7, 1982	None	September 15, 1983	None
Eatonville, Town of	October 22, 1976	None	July 3, 1986	None
Edgewood, City of	August 3, 1998	N/A	TBD	N/A
Fife, City of	May 24, 1974	July 30, 1976	November 5, 1980	None
Fircrest, City of	June 28, 1974	None	February 3, 1982	None
Gig Harbor, City of	June 28, 1974	December 26, 1975	September 2, 1981	None
Lakewood, City of	August 4, 1998	N/A	TBD	N/A
Milton, City of	December 3, 1976	None	February 17, 1982	None
Orting, City of	December 28, 1973	July 30, 1976	September 27, 1985	None
Pierce County, Unincorporated Areas	October 25, 1977	April 15, 1980	August 19, 1987	August 4, 1988
Puyallup, City of	May 24, 1974	February 21, 1975	August 15, 1980	None
Roy, City of	July 18, 1975	June 21, 1977	March 15, 1982	None
Ruston, Town of	December 3, 1976	None	July 3, 1986	None
South Prairie, Town of	November 19, 1976	None	December 15, 1981	None
Steilacoom, Town of	August 9, 1974	January 23, 1976	July 19, 1982	None
Sumner, City of	July 26, 1974	July 16, 1976	December 16, 1980	April 19, 1983 June 18, 1987
Tacoma, City of	October 18, 1974	February 18, 1977	December 1, 1983	None
University Place, City of	TBD	N/A	TBD	N/A
Wilkeson, Town of	August 29, 1975	None	March 1, 1982	None

*No Special Flood Hazard Areas identified

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

PIERCE COUNTY, WA
(AND INCORPORATED AREAS)

COMMUNITY MAP HISTORY

7.0 OTHER STUDIES

Flood Insurance Studies have been prepared for the Cities of Bonney Lake, Buckley, Dupont, Fife, Fircrest, Gig Harbor, Milton, Orting, Pacific, Puyallup, Roy, Sumner, and Tacoma (References 57-64 and 3, respectively); the Towns of Eatonville, Ruston, South Prairie, Steilacoom, and Wilkeson (References 65-73, respectively); and King, Kitsap, Lewis, Mason, Thurston, and Yakima Counties (References 74-79, respectively). These studies are in general agreement with the data presented in this report.

Due to the more detailed analyses used, this study supersedes the previously published Flood Hazard Boundary Map for Pierce County (Reference 2).

A flood inundation study of the Parkland area of Clover Creek was prepared by the USGS in 1962 (Reference 82). Subsequent to the publication of the USGS study, structural improvements and channel changes have occurred. The changes are incorporated in the analyses presented in this Flood Insurance Study and supersede the USGS study.

A flood-control study of the Clover Creek basin was prepared by Consoer, Townsend, and Associates in 1977 (Reference 83), and coordination was maintained through the study.

Consoer, Townsend, and Associates also prepared flood-control reports on Hylebos Creek (Reference 84) and Upper Wapato Creek (Reference 85). This study was compared with the flood-control reports, and there were no major disagreements.

The USACE has performed studies investigating flood hazards and methods of flood protection for the Puyallup and Carbon River (References 28 and 86). Data from these analyses were used in performing the hydraulic analysis for this study.

No previous studies have been prepared for Cities of Edgewood, Lakewood, and University Place; and the Town of Carbonado.

This FIS report either supersedes or is compatible with all previous studies published on streams studied in this report and should be considered authoritative for the purposes of the NFIP.

8.0 LOCATION OF DATA

Information concerning the pertinent data used in the preparation of this study can be obtained by contacting Federal Insurance and Mitigation Division, FEMA Region X, Federal Regional Center, 130 228th Street, SW, Bothell, Washington 98021-9796.

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