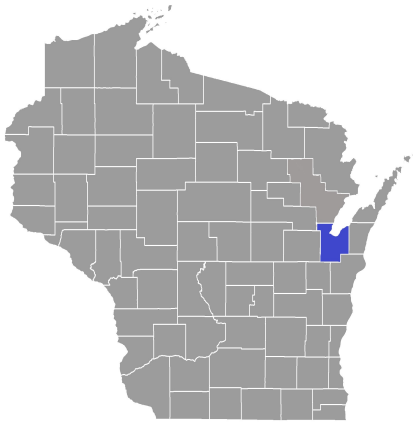
FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 4



BROWN COUNTY, WISCONSIN

AND INCORPORATED AREAS

COMMUNITY NAME	NUMBER
ALLOUEZ, VILLAGE OF	550612
ASHWAUBENON, VILLAGE OF	550600
BELLEVUE, VILLAGE OF	550627
BROWN COUNTY, UNINCORPORATED AREAS	550020
DE PERE, CITY OF	550021
DENMARK, VILLAGE OF*	550616
GREEN BAY, CITY OF	550022
HOBART, VILLAGE OF	550626
HOWARD, VILLAGE OF	550023
PULASKI, VILLAGE OF	550024
SUAMICO, VILLAGE OF	550660
WRIGHTSTOWN, VILLAGE OF	550025

*No Special Flood Hazard Areas Identified

TRIBAL NATION	NUMBER
THE ONEIDA NATION OF WISCONSIN	550379

FEMA

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May 9, 2023

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Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bakers Creek								
A	176	67	120	3.2	649.6	649.6	649.6	0.0
B	1,282	165	184	2.1	653.9	653.9	653.9	0.0
C	2,275	29	42	6.4	656.6	656.6	656.6	0.0

[1] Feet above Limit of Detailed Study

* Limit of Detailed Study is located approximately 250 feet downstream of Belmont Road

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BAKERS CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bakers Creek Tributary								
A	76	27	64	4.5	602.8	602.8	602.8	0.0
B	698	147	176	1.5	604.9	604.9	604.9	0.0
C	1,396	131	147	1.7	607.8	607.8	607.8	0.0
D	1,939	158	163	1.6	610.9	610.9	610.9	0.0
E	2,399	128	117	2.1	616.7	616.7	616.7	0.0

[1] Feet above Velp Avenue

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BAKERS CREEK TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Barina Creek								
A	0	41	74	4.0	612.6	612.6	612.6	0.0
B	175	28	37	8.1	613.6	613.6	613.6	0.0
C	276	74	72	4.1	615.5	615.5	615.5	0.0
D	381	223	325	0.9	617.7	617.7	617.7	0.0
E	681	169	1,165	0.5	621.2	621.2	621.2	0.0
F	1,431	162	710	0.5	621.2	621.2	621.2	0.0
G	1,991	159	572	0.4	621.3	621.3	621.3	0.0
H	2,311	38	73	3.2	621.2	621.2	621.2	0.0

[1] Feet above limit of detailed study

*Limit of detailed study is approximately 375 feet downstream of Church Road.

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BARINA CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Beaver Dam Creek									
A	1.089	120	889	1.1	-80	588.1	588.1	588.1	0.0
B	1.717	75	671	1.4	-1	588.3	588.3	588.3	0.0
C	2.567	82	541	1.7	12	588.4	588.4	588.4	0.0
D	4.515	495	1.381	0.7	175	588.8	588.8	588.8	0.0
E	5.265	281	827	1.0	-33	588.9	588.9	588.9	0.0
F	7.518	443	720	1.2	64	592.1	592.1	592.1	0.0
G	10.109	121	382	2.2	-30	597.8	597.8	597.8	0.0
H	11.199	39	112	7.5	-5	599.8	599.8	599.8	0.0
I	15.177	253	872	1.0	178	616.1	616.1	616.1	0.0
J	15.830	200	778	1.1	50	616.5	616.5	616.5	0.0
K	16.961	243	671	1.3	79	617.9	617.9	617.9	0.0
L	17.958	248	688	1.2	63	620.8	620.8	620.8	0.0
M	19.058	174	526	1.6	2	622.8	622.8	622.8	0.0
N	20.158	410	1.106	0.8	93	624.8	624.8	624.8	0.0
O	21.653	260	825	1.0	122	626.7	626.7	626.7	0.0
P	22.487	316	705	1.2	144	628.5	628.5	628.5	0.0
Q	23.762	318	801	1.1	16	631.8	631.8	631.8	0.0
R	24.823	79	222	3.8	-12	633.9	633.9	633.9	0.0
S	26.247	195	735	1.1	9	638.9	638.9	638.9	0.0
T	26.989	175	681	1.2	-5	641.3	641.3	641.3	0.0
U	28.314	252	685	1.2	134	646.2	646.2	646.2	0.0
V	29.304	170	580	1.5	11	650.3	650.3	650.3	0.0
W	30.164	211	495	1.7	33	652.6	652.6	652.6	0.0
X	31.205	110	747	1.1	-23	660.5	660.5	660.5	0.0
Y	32.493	165	479	1.8	3	661.7	661.7	661.7	0.0
Z	33.396	198	404	2.1	82	666.1	666.1	666.1	0.0
AA	35,039	247	926	0.9	35	676.7	676.7	676.7	0.0

[1]Feet above confluence with Duck Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BEAVER DAM CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bower Creek								
A	1.834	1.340	6.845	1.3	590.9	588.3[2]	588.3	0.0
B	3.092	1.055	5.143	1.9	590.9	588.5[2]	588.5	0.0
C	4.526	1.570	7.882	1.4	590.9	588.9[2]	588.9	0.0
D	6.040	1.430	4.912	1.3	590.9	589.1[2]	589.1	0.0
E	7.244	1.545	4.177	1.3	590.9	589.3[2]	589.3	0.0
F	8.038	1.306	3.774	1.5	590.9	589.5[2]	589.5	0.0
G	9.406	270	1.410	5.7	590.9	589.5[2]	589.5	0.0
H	10.790	665	4.765	1.8	592.4	592.4	592.4	0.0
I	12.083	650	3.822	1.9	592.9	592.9	592.9	0.0
J	13.615	520	3.514	2.5	593.7	593.7	593.7	0.0
K	15.451	640	2.722	2.4	595.0	595.0	595.0	0.0
L	17.386	1.385	6.285	1.3	597.5	597.5	597.5	0.0
M	18.468	771	2.440	2.2	597.7	597.7	597.7	0.0
N	19.299	630	1.359	3.5	598.0	598.0	598.0	0.0
O	20.297	129	1.259	8.9	600.8	600.8	600.8	0.0
P	21.297	345	1.150	3.4	606.2	606.2	606.2	0.0
Q	22.235	184	2.247	3.2	606.9	606.9	606.9	0.0
R	23.246	143	8.28	5.3	609.6	609.6	609.6	0.0
S	24.106	326	1.564	2.5	612.0	612.0	612.0	0.0
T	24.955	257	693	5.6	612.9	612.9	612.9	0.0
U	26.048	92	525	7.4	617.4	617.4	617.4	0.0
V	27.000	339	2.057	1.9	620.8	620.8	620.8	0.0
W	27.799	265	1.175	3.3	621.1	621.1	621.1	0.0
X	28.787	316	1.279	3.7	622.7	622.7	622.7	0.0
Y	29.695	316	1.283	3.8	626.2	626.2	626.2	0.0
Z	30.669	775	1.576	2.7	632.2	632.2	632.2	0.0

[1] Feet Above Mouth
[2] Elevations computed without consideration of backwater effects from East River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BOWER CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bower Creek Tributary								
A	267	153	750	2.3	827.4	827.4	827.4	0.0
B	815	59	780	3.3	831.3	831.3	831.3	0.0

[1]Feet above Limit of Detailed Study

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BOWER CREEK TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bower Creek Tributary 1								
A	1,953	684	3,000	1.7	590.9	589.4[2]	589.4	0.0
B	3,067	1,359	2,684	1.4	590.9	590.0[2]	590.0	0.0
C	4,654	1,198	1,706	1.6	591.1	591.1	591.1	0.0
D	5,934	461	5,953	2.4	593.9	593.9	593.9	0.0
E	6,630	115	1,575	3.7	597.0	597.0	597.0	0.0
F	7,888	285	379	2.7	600.0	600.0	600.0	0.0
G	9,109	268	338	3.0	604.4	604.4	604.4	0.0
H	10,802	327	526	2.0	618.3	618.3	618.3	0.0

[1] Feet above mouth
[2] Elevation computed without consideration of backwater effects from the East River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BOWER CREEK TRIBUTARY 1

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bower Creek Tributary 2								
A	296	228	2,238	0.6	594.7	594.7	594.7	0.0
B	885	140	633	1.8	594.8	594.8	594.8	0.0
C	1,599	35	253	5.6	600.1	600.1	600.1	0.0
D	1,910	124	412	1.8	604.8	604.8	604.8	0.0
E	3,136	71	200	4.1	612.3	612.3	612.3	0.0
F	4,298	204	651	0.3	624.0	624.0	624.0	0.0
G	5,169	41	131	5.3	632.3	632.3	632.3	0.0
H	6,040	17	14	16.4	674.5	674.5	674.5	0.0
I	6,295	117	183	1.6	698.6	698.6	698.6	0.0
J	7,193	20	97	4.7	701.7	701.7	701.7	0.0
K	8,122	14	20	3.0	707.1	707.1	707.1	0.0
L	8,816	32	22	2.8	716.8	716.8	716.8	0.0
M	9,583	42	28	2.7	729.7	729.7	729.7	0.0

[1] Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BOWER CREEK TRIBUTARY 2

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bower Creek Tributary A								
A	256	222	2015	0.8	606.3	606.3	606.3	0.0
B	1,183	47	111	3.6	607.6	607.6	607.6	0.0
C	3,005	51	74	4.7	622.3	622.3	622.3	0.0
D	5,328	131	131	2.6	639.3	639.3	639.3	0.0

[1] Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BOWER CREEK TRIBUTARY A

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Bower Creek Tributary B								
A	289	148	380	1.8	606.7	606.7	606.7	0.0
B	844	135	190	3.6	611.7	611.7	611.7	0.0
C	1,594	117	175	4.8	619.6	619.6	619.6	0.0
D	2,266	143	202	3.4	628.5	628.5	628.5	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BOWER CREEK TRIBUTARY B

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Branch of Plum Creek									
A	612	186	352	4.2	-4	765.3	765.3	765.3	0.0
B	823	184	323	2.9	0	765.7	765.7	765.7	0.0
C	1,034	262	394	2.8	-8	766.1	766.1	766.1	0.0
D	1,245	281	387	2.9	16	766.4	766.4	766.4	0.0

[1]Feet above Holland Court

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BRANCH OF PLUM CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Branch Plum Creek Lower Tributary									
A	270	119	116	1.2	-105	766.1	766.1	766.1	0.0
B	540	64	44	3.1	-7	766.7	766.7	766.7	0.0
C	730	82	66	2.1	-32	768.1	768.1	768.1	0.0
D	910	70	56	2.5	-24	768.9	768.9	768.9	0.0
E	1,180	78	61	3.4	-8	770.4	770.4	770.4	0.0
F	1,391	84	59	3.4	4	771.4	771.4	771.4	0.0
G	1,591	22	33	4.2	-2	772.6	772.6	772.6	0.0

[2]Feet above confluence with Branch of Plum Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BRANCH OF PLUM CREEK LOWER TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Branch Plum Creek Upper Tributary									
A	300	112	161	2.5	-13	765.7	765.7	765.7	0.0
B	458	98	125	2.8	-24	765.9	765.9	765.9	0.0
C	648	63	90	4.1	-11	766.3	766.3	766.3	0.0
D	848	102	110	3.8	-6	767.0	767.0	767.0	0.0
E	978	94	90	4.1	-13	767.5	767.5	767.5	0.0
F	1,189	20	48	5.9	3	768.7	768.7	768.7	0.0

[2]Feet above confluence with Branch of Plum Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BRANCH OF PLUM CREEK UPPER TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Branch River								
A	1,216	920	4,910	0.7	839.4	839.4	839.4	0.0
B	6,876	720	3,040	1.2	839.6	839.6	839.6	0.0
C	8,559	440	2,140	1.3	840.0	840.0	840.0	0.0
D	10,775	510	1,845	1.5	843.6	843.6	843.6	0.0
E	12,445	50	460	6.2	845.5	845.5	845.5	0.0
F	14,066	280	565	5.1	847.6	847.6	847.6	0.0
G	16,069	720	1,685	1.7	851.1	851.1	851.1	0.0

[1] Feet above limit of detailed study

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

BRANCH RIVER

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Duck Creek									
A	510	323	1.556	4.2	1	*	584.0[2]	584.0	0.0
B	1.182	305	1.758	3.7	-1	584.7	584.7	584.7	0.0
C	2.352	560	3.834	1.7	-5	585.3	585.3	585.3	0.0
D	3.252	173	1.459	4.5	-12	585.5	585.5	585.5	0.0
E	4.748	625	3.943	1.7	-7	587.2	587.2	587.2	0.0
F	5.938	594	2.196	3.0	469	587.4	587.4	587.4	0.0
G	6.830	225	2.244	2.9	-12	588.0	588.0	588.0	0.0
H	7.750	717	4.288	1.5	596	588.4	588.4	588.4	0.0
I	8.940	634	4.906	1.3	141	588.6	588.6	588.6	0.0
J	10.290	230	2.284	2.7	-3	588.9	588.9	588.9	0.0
K	10.731	1.438	7.174	0.9	1,299	590.5	590.5	590.5	0.0
L	12.466	576	4.716	1.3	-3	590.7	590.7	590.7	0.0
M	13.774	350	2.913	2.0	6	590.8	590.8	590.8	0.0
N	14.789	637	4.361	1.4	-1	591.0	591.0	591.0	0.0
O	15.553	346	3.070	1.9	4	591.1	591.1	591.1	0.0
P	16.167	375	4.215	1.4	2	591.3	591.3	591.3	0.0
Q	16.907	279	2.962	2.0	0	591.3	591.3	591.3	0.0
R	18.145	244	2.624	2.1	0	591.9	591.9	591.9	0.0
S	18.890	419	6.716	1.3	-1	592.2	592.2	592.2	0.0
T	20.168	780	5.241	1.1	2	592.3	592.3	592.3	0.0
U	20.921	681	3.230	1.7	0	592.4	592.4	592.4	0.0
V	21.978	217	1.315	4.2	-3	593.4	593.4	593.4	0.0
W	23.324	617	2.410	2.3	180	595.6	595.6	595.6	0.0
X	26.444	552	1.536	3.6	372	596.6	596.6	596.6	0.0
Y	27.994	317	1.260	4.4	-5	598.3	598.3	598.3	0.0
Z	29.544	345	1.226	4.5	-90	599.8	599.8	599.8	0.0

[1]Feet above mouth
[2]Elevation computed without considering backwater from Green Bay

* Controlled by coastal flooding. See Flood Insurance Rate Map for regulatory base flood elevations

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

DUCK CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Duck Creek (continued)									
AA	30.824	625	2.005	2.8	151	601.8	601.8	601.8	0.0
AB	31.974	399	1.690	3.3	4	602.7	602.7	602.7	0.0
AC	32.604	123	877	6.3	-230	603.4	603.4	603.4	0.0
AD	33.984	990	4.097	1.4	-53	605.4	605.4	605.4	0.0
AE	35.464	835	2.975	1.9	96	605.9	605.9	605.9	0.0
AF	37.624	1.063	4.731	1.2	706	608.2	608.2	608.2	0.0
AG	38.504	956	3.732	1.5	460	613.6	613.6	613.6	0.0
AH	39.334	412	1.663	3.3		614.2	614.2	614.2	0.0
AI	41.094	560	1.824	3.0		618.5	618.5	618.5	0.0
AJ	46.244	629	2.500	2.2		626.4	626.4	626.4	0.0
AK	49.394	729	2.894	1.9		629.4	629.4	629.4	0.0
AL	51.944	758	3.489	1.6		632.1	632.1	632.1	0.0
AM	54.269	643	1.484	3.7		639.6	639.6	639.6	0.0
AN	56.594	562	1.779	3.1		648.6	648.6	648.6	0.0
AO	61.094	619	1.461	3.8		662.7	662.7	662.7	0.0
AP	62.674	174	1.090	5.1		668.4	668.4	668.4	0.0
AQ	65.964	279	1.557	3.6		672.3	672.3	672.3	0.0
AR	68.704	1.027	4.167	1.3		673.8	673.8	673.8	0.0
AS	74.014	400	3.093	1.8		675.3	675.3	675.3	0.0

[1] Feet above mouth

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Duck Creek Tributary - Stream 11								
A	283	434	1,477	0.4	605.7	604.2[2]	604.2	0.0
B	983	27	62	5.5	611.4	611.4	611.4	0.0
C	1,707	73	129	2.6	624.2	624.2	624.2	0.0
D	2,406	65	103	3.3	637.0	637.0	637.0	0.0
E	3,092	26	80	4.2	647.1	647.1	647.1	0.0
F	3,917	89	458	0.7	665.8	665.8	665.8	0.0
G	4,501	53	140	2.4	668.4	668.4	668.4	0.0

[1]Feet above mouth
[2]Elevation computed without consideration of backwater effects from Duck Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

DUCK CREEK TRIBUTARY – STREAM 11

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Duck Creek Tributary 12								
A	745	105	132	1.9	644.4	644.4	644.4	0.0
B	1,489	52	99	1.6	656.9	656.9	656.9	0.0
C	2,149	28	15	3.9	665.4	665.4	665.4	0.0
D	2,724	26	15	4.1	674.0	674.0	674.0	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

DUCK CREEK TRIBUTARY – STREAM 12

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Dutchman Creek									
A	483	256	1,816	1.9	1	585.9	585.9	585.9	0.0
B	1,622	142	1,571	2.2	-4	592.9	592.9	592.9	0.0
C	2,633	44	591	5.8	-6	593.2	593.2	593.2	0.0
D	3,124	372	3,956	0.9	0	595.8	595.8	595.8	0.0
E	4,470	709	4,702	0.7	149	595.9	595.9	595.9	0.0
F	5,226	301	1,593	2.2	162	596.1	596.1	596.1	0.0
G	6,158	165	2,229	1.5	-1	596.6	596.6	596.6	0.0
H	7,421	168	1,005	3.3	0	596.8	596.8	596.8	0.0
I	8,534	169	1,136	2.9	0	598.6	598.6	598.6	0.0
J	9,414	165	914	3.6	-1	598.9	598.9	598.9	0.0
K	10,622	95	678	4.9	-1	602.1	602.1	602.1	0.0
L	11,653	447	4,179	0.8	2	605.4	605.4	605.4	0.0
M	12,805	244	1,767	1.8	2	605.5	605.5	605.5	0.0
N	13,612	228	1,947	1.6	-7	607.5	607.5	607.5	0.0
O	17,460	118	676	3.6	1	608.4	608.4	608.4	0.0
P	17,829	107	679	3.6	3	610.2	610.2	610.2	0.0
Q	19,673	291	1,224	1.6	-140	610.8	610.8	610.8	0.0
R	21,711	300	799	2.5	-7	615.3	615.3	615.3	0.0
S	22,214	171	460	4.4	0	619.4	619.4	619.4	0.0
T	24,277	182	504	4.0	0	633.5	633.5	633.5	0.0
U	25,185	83	471	4.2	1	639.5	639.5	639.5	0.0
V	25,770	162	649	3.1	0	646.1	646.1	646.1	0.0
W	26,833	440	1,180	1.7	-5	650.7	650.7	650.7	0.0

[1] Feet above confluence with Fox River

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Dutchman Creek North Tributary									
A	12,148	94	1.088	1.1	1	609.1	609.1	609.1	0.0
B	12,666	332	2.984	0.4	8	611.1	611.1	611.1	0.0
C	13,325	315	1.638	0.7	5	611.1	611.1	611.1	0.0
D	14,418	283	3.633	0.2	1	623.1	623.1	623.1	0.0
E	16,337	92	352	2.2	11	623.3	623.3	623.3	0.0
F	17,325	68	278	2.5	2	624.0	624.0	624.0	0.0
G	18,791	36	64	5.6	0	632.0	632.0	632.0	0.0
H	19,089	132	322	1.1	1	637.5	637.5	637.5	0.0
I	20,544	88	133	2.7	0	646.8	646.8	646.8	0.0
J	21,225	274	943	0.4	0	657.0	657.0	657.0	0.0
K	21,953	201	465	0.5	1	657.0	657.0	657.0	0.0
L	23,429	105	348	0.5	0	671.8	671.8	671.8	0.0
M	23,830	107	382	0.4	0	677.3	677.3	677.3	0.0

[1]Above confluence of Dutchman Creek with Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

DUTCHMAN CREEK NORTH TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Dutchman Creek South Tributary									
A	20,085	110	661	2.0	0	613.5	613.5	613.5	0.0
B	20,550	40	331	3.9	1	613.6	613.6	613.6	0.0
C	20,955	115	584	2.2	-3	615.5	615.5	615.5	0.0
D	21,764	39	280	4.6	0	616.2	616.2	616.2	0.0
E	22,306	96	474	2.7	-5	618.3	618.3	618.3	0.0
F	23,207	109	455	2.8	-3	620.6	620.6	620.6	0.0
G	24,164	115	388	3.3	-20	623.2	623.2	623.2	0.0
H	24,713	369	940	1.4	-92	623.9	623.9	623.9	0.0

[1]Above confluence of Dutchman Creek with Fox River

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Dutchman Creek Southeast Tributary									
A	25.072	146	286	1.7	24	625.7	625.7	625.7	0.0
B	25.977	110	133	3.6	-13	629.5	629.5	629.5	0.0
C	26.604	247	982	0.5	23	634.1	634.1	634.1	0.0
D	28.024	378	438	1.1	93	634.5	634.5	634.5	0.0
E	28.844	656	269	1.8	-2	635.9	635.9	635.9	0.0
F	29.519	646	1.071	0.5	-17	636.9	636.9	636.9	0.0
G	31.864	1.013	1.109	0.4	8	637.1	637.1	637.1	0.0

[1]Feet above mouth of Dutchman Creek at the Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

DUTCHMAN CREEK SOUTHEAST TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Dutchman Creek Southwest Tributary									
A	25.137	302	617	1.3	-42	624.0	624.0	624.0	0.0
B	26.287	47	171	4.7	-9	628.1	628.1	628.2	0.0
C	26.649	240	1,114	0.7	-3	633.0	633.0	633.0	0.0
D	27.759	160	340	2.4	-61	633.3	633.3	633.3	0.0
E	28.149	120	199	4.0	3	635.2	635.2	635.2	0.0
F	28.559	297	2,445	0.4	5	642.1	642.1	642.1	0.0
G	31.724	190	240	1.6	2	643.0	643.0	643.0	0.0
H	32.959	245	141	2.5	5	644.5	644.5	644.5	0.0
I	33.649	176	107	3.3	8	646.2	646.2	646.2	0.0

[1]Feet above mouth of Dutchman Creek at Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

DUTCHMAN CREEK SOUTHWEST TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East River								
A	1,492	182	2,183	3.6	585.7	584.4[2]	584.4	0.0
B	2,680	140	1,766	4.4	585.7	585.1[2]	585.1	0.0
C	3,410	146	1,856	4.2	585.7	585.4[2]	585.4	0.0
D	5,962	122	1,245	6.3	586.6	586.6	586.9	0.3
E	7,533	163	1,982	4.0	588.1	588.1	588.3	0.2
F	9,343	500	3,716	2.1	588.5	588.5	588.7	0.2
G	10,512	488	3,601	1.6	588.6	588.6	588.8	0.2
H	11,880	229	2,902	2.0	588.7	588.7	588.9	0.2
I	12,637	948	6,781	0.9	589.0	589.0	589.2	0.2
J	14,620	777	4,808	1.2	589.1	589.1	589.3	0.2
K	16,562	747	3,534	1.6	589.2	589.2	589.4	0.2
L	18,156	175	2,546	2.2	589.3	589.3	589.5	0.2
M	20,186	1,020	8,408	0.7	589.5	589.5	589.8	0.2
N	22,340	600	5,329	1.1	589.6	589.6	589.8	0.2
O	24,473	380	3,963	1.4	589.7	589.7	589.9	0.2
P	26,702	913	5,809	1.0	589.9	589.9	590.1	0.3
Q	30,063	900	6,728	0.8	589.9	589.9	590.3	0.4
R	31,495	420	3,472	1.6	590.0	590.0	590.4	0.4
S	32,883	1,450	11,614	0.5	590.1	590.1	590.5	0.4
T	35,504	265	2,471	2.3	590.2	590.2	590.5	0.4
U	38,584	695	5,117	1.1	590.4	590.4	590.9	0.4
V	41,963	505	3,477	0.8	590.6	590.6	591.1	0.5
W	45,845	1,481	7,165	0.4	590.6	590.6	591.2	0.6
X	49,260	1,086	4,483	0.6	590.7	590.7	591.3	0.6
Y	52,498	173	1,225	2.2	591.2	591.2	591.7	0.5
Z	52,930	202	922	2.9	591.4	591.4	591.7	0.4

[1] Feet above confluence with Fox River

[2] Elevations computed without consideration of backwater effects from Green Bay

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

EAST RIVER

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East River (continued)								
AA	57,320	732	6,589	0.9	592.5	592.5	593.1	0.6
AB	59,341	553	2,091	1.3	594.0	594.0	594.3	0.3
AC	64,067	554	1,727	1.6	595.2	595.2	595.3	0.1
AD	65,297	151	934	2.9	595.7	595.7	595.8	0.1
AE	68,888	457	1,087	2.5	597.6	597.6	597.8	0.2
AF	75,750	967	2,481	1.1	601.3	601.3	601.6	0.3
AG	78,212	1,301	3,328	0.8	602.1	602.1	602.3	0.2
AH	80,193	96	506	5.3	603.2	603.2	603.2	0.0
AI	81,661	401	1,473	1.8	605.2	605.2	605.3	0.2
AJ	84,845	510	1,292	2.1	607.6	607.6	607.6	0.0
AK	85,841	85	720	4.1	608.6	608.6	608.6	0.0
AL	87,628	148	747	3.6	610.0	610.0	610.0	0.0
AM	89,571	381	1,695	1.6	611.2	611.2	611.6	0.4
AN	91,836	457	1,221	2.2	612.3	612.3	612.6	0.3
AO	92,681	120	653	4.1	613.8	613.8	613.8	0.0
AP	94,148	489	1,379	2.0	615.0	615.0	615.1	0.1
AQ	95,961	80	540	5.0	616.9	616.9	616.9	0.0
AR	97,556	592	2,346	1.2	618.4	618.4	618.5	0.0
AS	100,914	1,150	3,992	0.7	619.0	619.0	619.0	0.0
AT	104,174	160	908	2.5	620.2	620.2	620.2	0.0
AU	106,455	380	1,263	1.8	621.3	621.3	621.3	0.0
AV	110,602	405	1,555	1.5	623.7	623.7	623.8	0.0
AW	112,276	78	733	3.1	624.9	624.9	625.0	0.1
AX	112,732	344	1,992	1.2	625.6	625.6	625.7	0.1
AY	114,534	405	1,851	1.2	625.9	625.9	626.0	0.1
AZ	115,339	64	393	5.9	626.4	626.4	626.5	0.1

[1]Feet above confluence with Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

EAST RIVER

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East River (continued)								
BA	116,436	763	1,906	1.3	627.8	627.8	627.9	0.1
BB	117,533	765	1,995	1.2	628.0	628.0	628.1	0.1
BC	121,353	557	1,300	1.6	629.2	629.2	629.2	0.0
BD	121,800	616	764	2.8	629.9	629.9	629.9	0.0
BE	122,688	585	1,660	1.3	630.9	630.9	630.9	0.0
BF	124,118	818	1,514	1.4	631.4	631.4	631.4	0.0

[1]Feet above confluence with Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

EAST RIVER

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East River Tributary									
A	4,514	630	1,422	0.5	249	591.5	591.5	591.5	0.0
B	4,904	150	315	2.0	-104	591.6	591.6	591.6	0.0
C	5,519	150	260	2.7	-25	592.0	592.0	592.0	0.0
D	6,309	150	345	1.9	-32	592.5	592.5	592.5	0.0
E	6,559	100	250	2.6		594.7	594.7	594.7	0.0

[1] Feet above confluence with Bower Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

EAST RIVER TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East River Tributary A									
A	401	208	891	0.9	0	591.5	588.9[2]	588.9	0.00
B	840	25	141	5.9	-12	591.5	588.9[2]	588.9	0.00
C	1,243	344	1,444	0.6	28	592.4	592.4	592.4	0.00
D	1,914	454	1,766	0.3	5	592.4	592.4	592.4	0.00
E	2,441	446	1,701	0.3	0	592.4	592.4	592.4	0.00
F	2,881	310	827	0.6	0	592.5	592.5	592.5	0.00
G	3,562	186	342	1.4	-36	592.6	592.6	592.6	0.00
H	3,973	116	117	4.0	-8	593.4	593.4	593.4	0.00
I	4,423	164	289	1.8	-5	595.8	595.8	595.8	0.00
J	4,948	26	472	5.5	-14	600.0	600.0	600.0	0.00
K	5,280	189	350	1.2	-22	600.8	600.8	600.8	0.00
L	5,599	80	204	1.3	0	601.0	601.0	601.0	0.00
M	5,902	60	152	1.7	7	602.2	602.2	602.2	0.00
N	6,209	62	73	3.6	-17	602.7	602.7	602.7	0.00
O	6,512	120	788	0.3	-8	605.3	605.3	605.3	0.00
P	7,169	130	586	0.4	-1	605.3	605.3	605.3	0.00
Q	7,572	227	435	0.6	0	611.2	611.2	611.2	0.00
R	8,471	330	454	0.6	-1	612.5	612.5	612.5	0.00
S	8,863	70	127	2.9	-4	612.7	612.7	612.7	0.00

[1]Feet above confluence with the East River
[2]Elevation computed without consideration of backwater effects from the East River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

EAST RIVER TRIBUTARY A

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY (FEET)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East River Tributary B									
A	362	142	283	0.5	7	592.4	589.1[2]	589.1	0.0
B	547	203	410	0.4	5	592.4	589.1[2]	589.1	0.0
C	839	102	67	2.3	-14	592.4	589.9[2]	589.9	0.0
D	1,152	142	128	0.5	-7	592.4	590.5[2]	590.5	0.0
E	1,357	136	80	0.8	6	592.4	590.6[2]	590.6	0.0
F	1,566	32	21	3.0	3	593.4	593.4	593.4	0.0
G	1,793	33	33	1.9	6	595.2	595.2	595.2	0.0

[1]Feet above confluence with East River Tributary A

[2]Elevations computed without consideration of backwater effects from East River Tributary A

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

EAST RIVER TRIBUTARY B

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East Verlin North Tributary to Willow Creek									
A	425	53	130	0.2	3	606.2	606.2	606.2	0.0
B	588	13	32	0.6	-13	606.2	606.2	606.2	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

EAST VERLIN NORTH TRIBUTARY TO WILLOW CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
East Verlin Tributary to Willow Creek									
A	735	39	73	4.3	18	591.0	591.0	591.0	0.0
B	1,760	25	60	4.0	-6	596.5	596.5	596.5	0.0
C	2,348	170	343	1.6	-2	598.1	598.1	598.1	0.0
D	3,182	39	80	6.7	-10	598.8	598.8	598.8	0.0
E	3,432	170	277	2.0	8	600.4	600.4	600.4	0.0
F	3,816	42	92	5.9	-3	601.8	601.8	601.8	0.0
G	5,013	69	175	3.0	-1	606.2	606.2	606.2	0.0
H	5,630	126	104	5.0	0	608.4	608.4	608.4	0.0
I	6,568	90	218	2.4	4	620.6	620.6	620.6	0.0
J	6,682	20	55	9.4	0	621.5	621.5	621.5	0.0

[1] Feet above confluence with Willow Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

EAST VERLIN TRIBUTARY TO WILLOW CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Ellis Creek								
A	144	212	1,454	0.4	650.9	650.9	650.9	0.0
B	742	172	806	0.6	650.9	650.9	650.9	0.0
C	1,210	78	145	3.2	651.1	651.1	651.1	0.0
D	1,533	62	80	5.4	652.8	652.8	652.8	0.0
E	1,711	69	107	4.1	654.4	654.4	654.4	0.0
F	1,996	59	86	4.8	656.2	656.2	656.2	0.0
G	2,439	71	118	3.5	660.0	660.0	660.0	0.0
H	2,921	137	845	0.3	669.9	669.9	669.9	0.0
I	3,731	80	110	2.3	670.1	670.1	670.1	0.0

[1]Feet above upstream end of culvert at Auto Plaza Drive

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

ELLIS CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Fox River								
A	3,076	604	15,597	2.2	*	584.1[2]	584.1	0.0
B	6,119	515	14,870	2.3	*	584.2[2]	584.2	0.0
C	9,196	699	17,355	1.8	584.7	584.7	584.7	0.0
D	10,658	614	16,216	1.9	584.7	584.7	584.7	0.0
E	13,207	540	15,369	2.0	584.8	584.8	584.8	0.0
F	14,982	615	17,770	1.7	584.9	584.9	584.9	0.0
G	18,584	1,067	29,370	1.1	585.0	585.0	585.0	0.0
H	22,084	1,413	22,815	1.5	585.0	585.0	585.0	0.0
I	26,962	2,483	30,720	1.0	585.1	585.1	585.1	0.0
J	40,215	1,042	9,264	3.2	585.3	585.3	585.3	0.0
K	40,497	983	21,852	1.4	589.3	589.3	589.3	0.0
L	53,939	1,032	11,248	2.7	589.9	589.9	589.9	0.0
M	66,171	1,820	14,712	2.0	590.7	590.6	590.7	0.0
N	71,996	537	6,388	4.7	591.5	591.5	591.5	0.0
O	72,693	565	8,266	3.6	598.5	598.5	598.5	0.0
P	78,931	530	7,363	4.0	599.2	599.2	599.2	0.0
Q	86,403	478	6,833	4.1	600.4	600.4	600.4	0.0
R	94,903	454	5,682	5.0	601.4	601.4	601.5	0.1
S	103,310	535	7,444	3.8	602.7	602.5	602.7	0.2

[1]Feet above mouth

[2] Elevations computed without consideration of backwater effects from Green Bay

* Controlled by coastal flooding. See Flood Insurance Rate Map for regulatory base flood elevations

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

FOX RIVER

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Lancaster Creek									
A	122	125	634	2.4	10	586.1	586.1[2]	586.1	0.0
B	1.032	215	489	3.1	114	586.4	586.4	586.4	0.0
C	1.342	70	374	4.0	-41	587.1	587.1	587.1	0.0
D	2.294	1.098	652	1.8	-827	588.9	588.9	588.9	0.0
E	3.074	343	1.178	1.0	-19	590.3	590.3	590.3	0.0
F	3.884	368	1.057	1.1	5	590.8	590.8	590.8	0.0
G	4.424	140	412	2.9	0	591.3	591.3	591.3	0.0
H	4.759	220	734	1.6	23	592.6	592.6	592.6	0.0
I	5.359	64	164	6.5	-31	592.3	592.3	592.3	0.0
J	5.619	30	239	4.5	-2	594.6	594.6	594.6	0.0
K	5.709	45	251	4.3	-19	594.7	594.7	594.7	0.0
L	5.859	77	286	3.7	-50	595.0	595.0	595.0	0.0
M	6.549	390	1.594	0.7	-4	596.0	596.0	596.0	0.0
N	7.629	408	961	1.1	-87	596.2	596.2	596.2	0.0
O	7.929	65	214	5.0	-60	596.3	596.3	596.3	0.0
P	8.291	651	2.014	0.5	62	597.1	597.1	597.1	0.0
Q	8.726	435	1.063	0.9	110	597.2	597.2	597.2	0.0
R	9.161	415	395	2.4	19	597.3	597.3	597.3	0.0
S	10.331	327	596	1.6	-77	599.8	599.8	599.8	0.0
T	11.501	219	400	2.4	-154	601.6	601.6	601.6	0.0
U	12.671	110	486	1.9	-80	603.7	603.7	603.7	0.0
V	13.811	270	548	1.7	81	605.3	605.3	605.3	0.0
W	15.281	192	237	4.0	46	608.6	608.6	608.6	0.0
X	15.981	28	186	4.4	-12	611.0	611.0	611.0	0.0
Y	16.242	175	550	1.5	-2	611.9	611.9	611.9	0.0
Z	16.732	40	192	4.3	-35	612.4	612.4	612.4	0.0

[1]Feet above confluence with Duck Creek

[2]Elevations without considering Backwater from Duck Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

LANCASTER CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Lancaster Creek (continued)									
AA	17.224	135	239	3.4	-6	613.3	613.3	613.3	0.0
AB	18.184	170	415	2.0	-7	615.6	615.6	615.6	0.0
AC	19.564	88	172	4.8	-80	618.5	618.5	618.5	0.0
AD	20.734	370	642	1.3	-44	622.8	622.8	622.8	0.0

[1]Feet above confluence with Duck Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

LANCASTER CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Lancaster Creek Tributary								
A	371	60	74	2.8	618.3	618.3	618.3	0.0
B	733	60	63	3.3	620.7	620.7	620.7	0.0
C	938	105	94	2.1	622.2	622.2	622.2	0.0
D	1,178	76	136	2.3	623.7	623.7	623.7	0.0
E	1,383	90	72	2.8	625.7	625.7	625.7	0.0
F	1,786	41	38	5.1	630.2	630.2	630.2	0.0

[1]Feet above Rockwell Road

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Mahon Creek								
A	1,199	89	361	3.3	591.6	591.6	591.6	0.0
B	1,391	170	628	1.8	592.5	592.5	592.5	0.0
C	1,763	180	495	2.2	593.2	593.2	593.2	0.0
D	2,097	135	272	4.1	593.5	593.5	593.5	0.0
E	2,419	123	188	5.9	595.0	595.0	595.0	0.0
F	2,627	252	364	3.4	597.5	597.5	597.5	0.0
G	2,974	197	351	3.6	599.7	599.7	599.7	0.0
H	3,469	291	695	1.6	602.6	602.6	602.6	0.0
I	3,680	197	365	3.7	604.4	604.4	604.4	0.0
J	4,117	237	518	2.2	605.8	605.8	605.8	0.0
K	4,320	195	450	2.4	606.4	606.4	606.4	0.0
L	4,610	140	326	3.5	608.2	608.2	608.2	0.0
M	5,291	225	344	3.2	614.7	614.7	614.7	0.0
N	5,645	182	420	2.6	620.7	620.7	620.7	0.0
O	6,098	148	237	4.1	625.5	625.5	625.5	0.0
P	6,301	40	196	6.0	627.3	627.3	627.3	0.0
Q	6,459	167	909	1.1	632.8	632.8	632.8	0.0
R	6,711	77	581	2.7	632.9	632.9	632.9	0.0
S	6,868	34	1,020	3.7	636.5	636.5	636.5	0.0
T	6,907	125	1,702	1.0	636.8	636.8	636.8	0.0
U	7,954	147	279	3.3	641.2	641.2	641.2	0.0
V	8,499	152	366	2.5	647.3	647.3	647.3	0.0
W	9,310	139	259	3.6	654.5	654.5	654.5	0.0
X	9,564	171	440	2.2	657.5	657.5	657.5	0.0
Y	10,031	138	357	2.7	661.2	661.2	661.2	0.0
Z	10,210	46	159	8.2	661.9	661.9	661.9	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

MAHON CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Mahon Creek (continued)								
AA	10,410	139	652	1.5	666.1	666.1	666.1	0.0
AB	10,703	177	327	3.0	666.8	666.8	666.8	0.0
AC	11,430	109	310	3.0	677.1	677.1	677.1	0.0
AD	12,488	138	358	2.3	687.0	687.0	687.0	0.0
AE	13,027	176	384	2.1	694.6	694.6	694.6	0.0
AF	13,531	94	212	3.9	702.2	702.2	702.2	0.0
AG	13,792	107	191	4.3	704.9	704.9	704.9	0.0
AH	14,068	74	172	4.8	711.5	711.5	711.5	0.0
AI	14,799	55	125	5.8	736.9	736.9	736.9	0.0
AJ	15,530	41	80	6.6	749.9	749.9	749.9	0.0
AK	15,694	57	129	4.1	752.4	752.4	752.4	0.0
AL	15,945	92	847	0.5	764.5	764.5	764.5	0.0
AM	16,771	48	82	4.9	766.6	766.6	766.6	0.0
AN	17,148	60	136	3.0	773.0	773.0	773.0	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

MAHON CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Middle Branch Little Suamico River									
A	138	8	29	8.4	-6	795.6	795.6	795.6	0.0
B	655	60	120	4.1	28	799.0	799.0	799.0	0.0
C	1,423	34	55	7.4	14	800.3	800.3	800.3	0.0
D	5,115	82	106	2.1	-12	809.8	809.8	809.8	0.0

[1] Feet above Limit of Detailed Study*

* Limit of Detailed Study is approximately 40 feet downstream of Summit Street

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

MIDDLE BRANCH LITTLE SUAMICO RIVER

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Neshota River								
A	6,019	115	1,036	4.0	687.7	687.7	687.7	0.0
B	6,072	190	1,687	2.8	687.9	687.9	687.9	0.0
C	8,765	715	4,025	0.0	689.7	689.7	689.7	0.0
D	8,818	760	3,110	1.3	689.7	689.7	689.7	0.0
E	10,085	940	4,180	1.2	690.1	690.1	690.1	0.0
F	12,038	385	1,545	2.9	690.6	690.6	690.6	0.0
G	14,520	245	604	7.3	696.5	696.5	696.5	0.0
H	14,573	335	1,087	4.1	698.2	698.2	698.2	0.0
I	16,738	530	3,000	1.5	700.7	700.7	700.7	0.0
J	18,322	90	870	4.6	701.4	701.4	701.4	0.0
K	18,374	70	1,150	3.5	701.4	701.4	701.4	0.0
L	18,638	240	3,820	1.1	702.1	702.1	702.1	0.0
M	18,691	310	4,860	0.8	702.2	702.2	702.2	0.0
N	20,328	730	4,260	0.9	702.5	702.5	702.5	0.0
O	22,915	780	4,600	0.9	702.9	702.9	702.9	0.0
P	24,869	80	370	10.8	702.9	702.9	702.9	0.0
Q	24,922	60	390	10.2	703.7	703.7	703.7	0.0

[1] Feet above mouth

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
North Branch Ashwaubenon Creek								
A	83,025	264	2,129	0.4	661.0	661.0	661.0	0.0
B	86,422	226	747	1.2	661.2	661.2	661.2	0.0
C	88,371	202	413	2.1	664.2	664.2	664.2	0.0
D	89,207	223	290	3.3	665.8	665.8	665.8	0.0
E	90,139	198	280	3.1	668.3	668.3	668.3	0.0
F	91,304	234	508	1.7	670.5	670.5	670.5	0.0
G	92,927	278	628	1.4	674.5	674.5	674.5	0.0
H	93,470	265	371	2.3	674.9	674.9	674.9	0.0
I	95,592	190	418	2.4	681.0	681.0	681.0	0.0

[1] Feet above mouth of Ashwaubenon Creek at Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

NORTH BRANCH ASHWAUBENON CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
North Branch Bakers Creek								
A	264	114	127	1.5	657.8	657.8	657.8	0.0
B	917	110	55	3.4	659.9	659.9	659.9	0.0
C	1,507	155	174	1.9	662.8	662.8	662.8	0.0
D	2,014	138	77	2.5	664.6	664.6	664.6	0.0

[1]Feet above confluence with Bakers Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

NORTH BRANCH BAKERS CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
North Branch Willow Creek								
A	77	42	490	4.3	629.4	629.4	629.4	0.0
B	487	47	1,385	1.5	645.1	645.1	645.1	0.0
C	760	153	2,879	0.4	645.9	645.9	645.9	0.0
D	2,393	192	811	1.2	646.0	646.0	646.0	0.0
E	2,903	256	805	0.9	652.1	652.1	652.1	0.0
F	3,393	159	645	1.3	654.5	654.5	654.5	0.0
G	3,891	193	289	2.5	654.8	654.8	654.8	0.0
H	5,996	135	197	3.6	672.6	672.6	672.6	0.0
I	6,283	180	185	3.9	678.4	678.4	678.4	0.0
J	9,254	135	154	3.8	711.6	711.6	711.6	0.0
K	12,472	110	180	2.8	735.8	735.8	735.8	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

NORTH BRANCH WILLOW CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
North Tributary South Branch Ashwaubenon Creek								
A	90,820	119	304	1.2	663.7	663.7	663.7	0.0
B	91,222	86	127	2.8	664.3	664.3	664.3	0.0
C	91,677	88	110	3.2	667.9	667.9	667.9	0.0
D	92,092	109	114	3.1	670.5	670.5	670.5	0.0
E	92,798	33	134	5.1	674.7	674.7	674.7	0.0

[1] Feet above confluence of Ashwaubenon Creek at Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

NORTH TRIBUTARY SOUTH BRANCH ASHWAUBENON CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Oneida Creek								
A	3	206	597	0.8	596.0	592.9[2]	592.9	0.0
B	677	283	247	2.0	596.6	596.6	596.6	0.0
C	1,199	145	874	2.5	600.3	600.3	600.3	0.0
D	1,432	112	233	2.3	603.0	603.0	603.0	0.0
E	1,668	116	220	2.3	604.6	604.6	604.6	0.0
F	2,120	160	307	1.6	606.2	606.2	606.2	0.0
G	2,358	115	241	2.1	607.9	607.9	607.9	0.0
H	2,825	117	199	2.5	611.0	611.0	611.0	0.0
I	3,278	140	179	2.8	614.0	614.0	614.0	0.0
J	3,737	128	178	2.8	619.9	619.9	619.9	0.0
K	4,106	111	131	1.6	621.3	621.3	621.3	0.0
L	4,527	52	47	3.9	625.6	625.6	625.6	0.0
M	5,314	78	79	2.3	633.8	633.8	633.8	0.0
N	5,614	92	81	2.2	636.2	636.2	636.2	0.0
O	5,951	59	61	3.2	639.3	639.3	639.3	0.0

[1]Feet above confluence with Duck Creek

[2]Elevations computed without consideration of backwater effects from Duck Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

ONEIDA CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Pioneer Tributary to Duck Creek								
A	192	223	643	0.2	590.7	588.0[2]	588.0	0.0
B	732	22	150	1.5	590.7	588.3[2]	588.3	0.0
C	1,046	38	1,482	0.4	595.7	595.7	595.7	0.0

[1]Feet above confluence with Duck Creek
[2]Elevations computed without consideration of backwater effects from Duck Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

PIONEER TRIBUTARY TO DUCK CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Plum Creek									
A	645	120	971	5.5	26	601.8	600.5[2]	600.5	0.0
B	700	117	943	5.5	21	601.8	600.5[2]	600.5	0.0
C	813	309	1,316	5.0	-10	601.8	600.8[2]	600.8	0.0
D	4,422	218	913	7.8	0	608.1	608.1	608.1	0.0
E	10,082	358	1,305	3.9	22	615.9	615.9	615.9	0.0
F	12,459	370	1,885	2.7	-36	619.3	619.3	619.3	0.0
G	14,381	239	1,025	3.5	2	621.7	621.7	621.7	0.0
H	15,504	90	555	6.5	-66	624.7	624.7	624.7	0.0
I	15,703	69	510	7.0	10	625.3	625.3	625.3	0.0

[1]Feet above mouth
[2]Elevations computed without consideration of backwater effects from Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

PLUM CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sorensons Creek								
A	623	146	1,696	2.8	601.9	601.9	601.9	0.0
B	1,421	78	334	5.3	602.5	602.5	602.5	0.0
C	2,661	88	312	5.7	606.2	606.2	606.2	0.0
D	3,170	321	730	2.4	609.9	609.9	609.9	0.0
E	4,188	284	449	4.0	612.3	612.3	612.3	0.0
F	5,002	159	697	3.9	615.3	615.3	615.3	0.0
G	5,592	60	263	6.9	617.6	617.6	617.6	0.0
H	6,383	298	818	2.2	621.4	621.4	621.4	0.0
I	7,158	240	574	2.1	622.6	622.6	622.6	0.0
J	9,950	258	340	3.5	629.3	629.3	629.3	0.0
K	11,147	99	244	4.9	634.6	634.6	634.6	0.0
L	11,851	227	352	3.3	637.8	637.8	637.8	0.0
M	12,608	75	163	7.2	644.6	644.6	644.6	0.0
N	13,077	142	515	3.0	648.5	648.5	648.5	0.0
O	14,500	61	727	7.3	654.1	654.1	654.1	0.0
P	15,857	93	271	4.5	666.4	666.4	666.4	0.0
Q	16,400	128	303	3.9	668.7	668.7	668.7	0.0
R	17,410	208	525	2.2	674.4	674.4	674.4	0.0
S	19,368	204	343	3.4	680.4	680.4	680.4	0.0

[1] Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SORENSONS CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sorensons Creek Tributary								
A	293	64	192	7.5	651.2	651.2	651.2	0.00
B	688	95	242	6.0	659.6	659.6	659.6	0.00
C	1.126	98	234	6.2	671.2	671.2	671.2	0.00
D	1.716	77	197	7.3	689.0	689.0	689.0	0.00
E	2.057	173	301	4.8	693.3	693.3	693.3	0.00
F	2.851	176	481	3.0	698.0	698.0	698.0	0.00
G	3.425	180	330	4.4	699.8	699.8	699.8	0.00
H	3.812	185	461	3.1	701.4	701.4	701.4	0.00
I	4.786	22	171	8.4	708.0	708.0	708.0	0.00
J	5.531	155	607	2.4	709.5	709.5	709.5	0.00
K	6.361	161	505	2.9	711.0	711.0	711.0	0.00
L	6.924	180	581	2.5	712.4	712.4	712.4	0.00
M	7.201	164	579	2.5	712.9	712.9	712.9	0.00
N	7.406	147	454	3.2	713.9	713.9	713.9	0.00
O	7.975	191	517	2.8	715.9	715.9	715.9	0.00
P	8.757	130	340	4.2	719.3	719.3	719.3	0.00
Q	9.978	150	334	4.3	726.3	726.3	726.3	0.00
R	10.243	148	1129	1.3	735.4	735.4	735.4	0.00
S	10.561	179	1983	0.7	739.0	739.0	739.0	0.00
T	10.920	276	1951	0.7	739.4	739.4	739.4	0.00
U	11.281	119	711	2.0	739.4	739.4	739.4	0.00
V	11.538	194	1115	1.3	741.7	741.7	741.7	0.00
W	12.669	192	752	1.9	741.9	741.9	741.9	0.00
X	13.340	144	407	3.5	742.3	742.3	742.3	0.00
Y	13.811	161	378	3.8	743.4	743.4	743.4	0.00
Z	14.809	241	460	3.1	747.3	747.3	747.3	0.00

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SORENSONS CREEK TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Branch Ashwaubenon Creek								
A	82,530	493	4,741	0.3	661.0	661.0	661.0	0.0
B	83,171	310	3.148	0.4	661.0	661.0	661.0	0.0
C	83,993	256	2.362	0.6	661.0	661.0	661.0	0.0
D	84,674	352	2.688	0.5	661.0	661.0	661.0	0.0
E	85,395	243	1.897	0.7	661.0	661.0	661.0	0.0
F	86,226	266	2.549	0.5	663.2	663.2	663.2	0.0
G	87,035	447	3.649	0.4	663.2	663.2	663.2	0.0
H	88,088	337	2.431	0.5	663.3	663.3	663.3	0.0
I	88,901	246	1.410	0.9	663.3	663.3	663.3	0.0
J	89,593	242	1.345	1.0	663.4	663.4	663.4	0.0
K	90,516	193	572	2.3	663.7	663.7	663.7	0.0
L	91,384	268	834	1.6	665.0	665.0	665.0	0.0
M	92,345	230	649	2.0	666.0	666.0	666.0	0.0
N	93,221	147	558	2.3	668.3	668.3	668.3	0.0
O	93,980	128	498	2.6	670.1	670.1	670.1	0.0
P	94,526	190	669	2.0	670.8	670.8	670.8	0.0

[1] Feet above mouth of Ashwaubenon Creek at Fox River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SOUTH BRANCH ASHWAUBENON CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Branch Little Suamico River									
A	384	345	1,330	1.4	16	784.9	784.9	784.9	0.0
B	926	84	312	2.2	41	785.4	785.4	785.4	0.0
C	1,393	870	1,633	1.3	192	785.7	785.7	785.7	0.0
D	2,784	186	223	9.5	-23	791.7	791.7	791.7	0.0
E	3,815	275	388	5.1	100	795.8	795.8	795.8	0.0
F	5,498	156	228	8.7	128	800.3	800.3	800.3	0.0
G	5,934	291	565	3.1	139	801.4	801.4	801.4	0.0
H	6,776	199	326	5.8	87	802.6	802.6	802.6	0.0
I	7,160	18	86	7.3	5	804.6	804.6	804.6	0.0
J	7,790	174	252	7.3	86	807.8	807.8	807.8	0.0
K	8,289	301	301	6.0	250	809.0	809.0	809.0	0.0
L	8,644	32	148	7.8	-16	809.8	809.8	809.8	0.0
M	9,374	595	622	4.1	109	810.8	810.8	810.8	0.0
N	10,444	1,329	2,600	1.0	112	811.1	811.1	811.1	0.0

[1]Feet above Limit of Detailed Study*
* Limit of Detailed Study is approximately 85 feet downstream of Corporate Way

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SOUTH BRANCH LITTLE SUAMICO RIVER

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Tributary to Willow Creek								
A	882	754	1,790	0.2	590.2	587.4[2]	587.4	0.0
B	1,582	858	1,085	0.4	590.2	587.4[2]	587.4	0.0
C	2,152	225	369	0.8	590.2	587.5[2]	587.5	0.0
D	2,642	238	99	3.0	590.2	587.8[2]	587.8	0.0
E	3,302	354	202	1.4	590.2	589.6[2]	589.6	0.0
F	3,892	76	95	3.1	590.5	590.5	590.5	0.0
G	4,732	78	210	1.0	591.1	591.1	591.1	0.0
H	5,412	30	69	2.8	591.3	591.3	591.3	0.0
I	5,922	32	72	2.7	592.3	592.3	592.3	0.0
J	6,237	40	130	1.5	598.7	598.7	598.7	0.0

[1]Feet above mouth
[2]Elevation computed without consideration of backwater effects from Willow Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SOUTH TRIBUTARY TO WILLOW CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Spring Creek								
A	538	563	2,699	2.0	595.4	595.4	595.4	0.0
B	1,246	214	680	8.3	595.9	595.9	595.9	0.0
C	1,465	236	2,183	3.0	600.3	600.3	600.3	0.0
D	1,972	375	8,960	1.5	601.7	601.7	601.7	0.0
E	2,543	431	3,140	0.9	602.0	602.0	602.0	0.0
F	3,788	232	737	2.8	602.4	602.4	602.4	0.0
G	4,062	146	557	3.7	603.2	603.2	603.2	0.0
H	4,332	544	2,963	0.7	605.0	605.0	605.0	0.0
I	4,761	284	1,308	2.0	605.0	605.0	605.0	0.0
J	5,880	331	873	2.4	608.3	608.3	608.3	0.0
K	7,717	352	780	2.6	614.7	614.7	614.7	0.0
L	8,506	197	1,250	2.2	619.4	619.4	619.4	0.0
M	9,085	420	2,673	0.8	624.2	624.2	624.2	0.0
N	9,797	253	951	2.2	624.2	624.2	624.2	0.0
O	10,861	305	622	3.4	626.1	626.1	626.1	0.0
P	11,697	65	630	7.6	629.4	629.4	629.4	0.0
Q	12,406	223	1,585	1.3	637.5	637.5	637.5	0.0
R	13,503	267	929	2.2	637.7	637.7	637.7	0.0
S	14,584	66	436	7.4	644.9	644.9	644.9	0.0
T	15,300	399	2,282	1.0	652.9	652.9	652.9	0.0
U	15,779	232	675	4.4	654.9	654.9	654.9	0.0
V	16,392	209	434	4.7	670.0	670.0	670.0	0.0
W	17,560	84	832	7.6	693.0	693.0	693.0	0.0
X	17,908	162	2,383	1.4	703.0	703.0	703.0	0.0
Y	19,048	105	529	3.1	703.0	703.0	703.0	0.0
Z	20,440	121	282	5.5	705.6	705.6	705.6	0.0

[1] Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SPRING CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Spring Creek (continued)								
AA	20,877	122	397	3.9	708.9	708.9	708.9	0.0
AB	21,170	146	533	2.9	711.2	711.2	711.2	0.0
AC	22,622	134	438	3.5	714.0	714.0	714.0	0.0
AD	23,090	119	399	3.9	717.0	717.0	717.0	0.0
AE	24,825	136	561	3.1	720.5	720.5	720.5	0.0
AF	25,202	163	1,653	1.2	727.8	727.8	727.8	0.0
AG	26,647	177	551	2.9	728.4	728.4	728.4	0.0
AH	26,959	175	314	4.9	730.3	730.3	730.3	0.0
AI	28,153	141	527	2.7	736.6	736.6	736.6	0.0
AJ	28,910	116	264	5.3	739.0	739.0	739.0	0.0
AK	29,248	165	638	2.2	740.9	740.9	740.9	0.0
AL	30,617	127	256	5.5	745.0	745.0	745.0	0.0
AM	31,131	184	1,163	1.2	750.7	750.7	750.7	0.0
AN	33,115	131	368	3.8	751.2	751.2	751.2	0.0
AO	34,332	155	224	6.2	755.2	755.2	755.2	0.0
AP	34,757	195	440	3.2	757.5	757.5	757.5	0.0
AQ	36,769	291	503	3.7	763.9	763.9	763.9	0.0
AR	37,486	218	641	1.1	770.0	770.0	770.0	0.0
AS	38,236	223	228	1.2	770.9	770.9	770.9	0.0
AT	38,823	97	153	1.9	775.4	775.4	775.4	0.0
AU	39,200	177	566	0.6	779.4	779.4	779.4	-0.1
AV	40,051	145	516	0.6	783.5	783.5	783.5	0.0

[1] Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SPRING CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Spring Creek Tributary A								
A	356	162	1,213	0.5	703.0	703.0	703.0	0.0
B	1,384	221	1,385	0.4	705.7	705.7	705.7	0.0
C	2,344	130	181	3.1	706.1	706.1	706.1	0.0
D	2,698	113	341	1.8	707.7	707.7	707.7	0.0
E	3,051	143	436	1.3	708.4	708.4	708.4	0.0
F	3,552	100	189	3.0	711.1	711.1	711.1	0.0
G	4,188	71	153	3.7	714.0	714.0	714.0	0.0
H	4,581	93	218	2.8	717.3	717.3	717.3	0.0
I	5,146	89	144	3.8	721.0	721.0	721.0	0.0
J	5,694	169	382	1.4	726.2	726.2	726.2	0.0
K	6,046	95	287	1.9	727.0	727.0	727.0	0.0
L	6,649	108	453	1.3	734.5	734.5	734.5	0.0
M	6,935	37	337	1.8	736.1	736.1	736.1	0.0
N	7,309	144	337	0.9	737.0	737.0	737.0	0.0
O	7,693	120	179	1.7	737.3	737.3	737.3	0.0
P	8,031	57	104	5.2	739.3	739.3	739.3	0.0
Q	8,283	100	293	1.8	743.4	743.4	743.4	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SPRING CREEK TRIBUTARY A

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Spring Creek Tributary A Ditch								
A	42	59	171	1.4	735.9	735.9	735.9	0.0
B	285	19	33	6.9	738.1	738.1	738.1	0.0
C	551	34	111	2.1	739.5	739.5	739.5	0.0

[1]Feet above confluence with Spring Creek Tributary A

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SPRING CREEK TRIBUTARY A DITCH

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Spring Creek Tributary B								
A	329	51	79	3.8	734.3	734.3	734.3	0.0
B	546	54	91	3.2	736.6	736.6	736.6	0.0
C	969	37	47	6.3	742.5	742.5	742.5	0.0
D	1,345	45	66	4.5	747.6	747.6	747.6	0.0
E	1,694	42	63	3.2	750.7	750.7	705.7	0.0
F	2,160	39	49	4.1	753.5	753.5	753.5	0.0
G	2,539	60	110	2.5	756.1	756.1	756.1	0.0
H	2,801	240	1,417	0.3	758.9	758.9	758.9	0.0
I	3,362	260	241	0.8	759.6	759.6	759.7	0.1

[1]Feet above mouth

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Suamico River									
A	1,054	149	1,877	2.2	310	*	584.1[2]	584.1	0.0
B	3,611	474	1,102	3.7	-142	584.5	584.5	584.5	0.0
C	6,126	366	1,783	2.3	146	585.3	585.3	585.3	0.0
D	7,792	721	1,541	2.6	583	585.7	585.7	585.7	0.0
E	8,015	307	2,247	1.8	-127	586.6	586.6	586.6	0.0
F	13,473	162	936	4.3	18	587.3	587.3	587.3	0.0
G	13,866	228	1,044	3.9	38	587.8	587.8	587.8	0.0
H	14,533	126	993	4.1	-32	588.5	588.5	588.5	0.0
I	14,717	100	909	4.5	5	589.3	589.3	589.3	0.0
J	15,529	210	1,688	2.4	-40	591.2	591.2	591.2	0.0
K	17,153	433	1,664	2.2	-58	591.6	591.6	591.6	0.0
L	18,759	884	2,979	1.2	370	592.4	592.4	592.4	0.0
M	19,595	651	2,666	1.4	130	596.1	596.1	596.1	0.0
N	20,778	539	1,625	2.3	-2	596.3	596.3	596.3	0.0
O	22,814	96	943	3.9	-80	597.4	597.4	597.4	0.0
P	23,005	140	1,087	3.4	-151	597.9	597.9	597.9	0.0
Q	25,075	398	2,140	1.7	51	599.1	599.1	599.1	0.0
R	27,732	844	1,308	2.8	713	601.8	601.8	601.8	0.0
S	29,034	630	1,977	1.9	152	605.6	605.6	605.6	0.0
T	33,697	72	498	7.7	-196	609.5	609.5	609.5	0.0
U	34,083	250	868	4.2	-3	611.1	611.1	611.1	0.0
V	38,838	754	1,314	2.5	666	617.3	617.3	617.3	0.0
W	40,990	161	640	5.2	-24	623.7	623.7	623.7	0.0
X	42,265	122	528	6.3	-80	626.4	626.4	626.4	0.0
Y	44,189	75	294	11.2	-37	635.5	635.5	635.5	0.0
Z	45,614	83	499	6.6	-13	642.2	642.2	642.2	0.0

[1]Feet above mouth

[2]Elevations computed without consideration of backwater effects from Green Bay

* Controlled by coastal flooding. See Flood Insurance Rate Map for regulatory base flood elevations

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SUAMICO RIVER

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tributary 1 to Dutchman Creek									
Southwest Tributary									
A	630	88	56	2.5	-13	642.1	642.1	642.1	0.0
B	1,405	42	39	3.6	-12	649.1	649.1	649.1	0.0
C	1,945	36	45	3.1	-31	656.6	656.6	656.6	0.0
D	2,265	47	57	2.5	-4	660.3	660.3	660.3	0.0
E	2,815	35	26	4.9	-5	664.5	664.5	664.5	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

TRIBUTARY 1 TO DUTCHMAN CREEK SOUTHWEST TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tributary 2 to Dutchman Creek									
Southwest Tributary									
A	0	310	565	0.3	101	642.1	642.1	642.1	0.0
B	770	57	37	4.1	-15	646.7	646.7	646.7	0.0
C	2,550	52	53	2.6	-5	665.6	665.6	665.6	0.0

[1] Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

TRIBUTARY 2 TO DUTCHMAN CREEK SOUTHWEST TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tributary 3 to Dutchman Creek Southwest Tributary									
A	400	210	159	1.5	23	649.0	649.0	649.0	0.0
B	1,950	81	84	2.4	5	663.7	663.7	663.7	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

TRIBUTARY 3 TO DUTCHMAN CREEK SOUTHWEST TRIBUTARY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
TROUT CREEK								
A-D	*	*	*	*	*	*	*	*
E	6,389	205	390	4.1	628.8	628.8	628.8	0.0
F	12,672	370	1,090	1.5	640.1	640.1	640.1	0.0
G	15,893	60	180	9.0	649.7	649.7	649.7	0.0
H	15,998	10	130	12.3	657.7	657.7	657.7	0.0
I	16,051	50	685	2.3	660.7	660.7	660.7	0.0
J	16,157	230	2,465	0.6	663.2	663.2	663.2	0.0
K	16,262	370	4,530	0.3	663.2	663.2	663.2	0.0
L	17,160	365	3,870	0.4	663.2	663.2	663.2	0.0
M	23,179	700	520	2.9	663.4	663.4	663.4	0.0
N	24,394	70	330	4.5	667.9	667.9	667.9	0.0
O	24,605	215	1,345	1.1	672.4	672.4	672.4	0.0
P	29,779	400	445	3.4	676.0	676.0	676.0	0.0
Q	29,885	480	1,155	1.3	679.1	679.1	679.1	0.0
R	36,115	280	655	2.3	687.6	687.6	687.6	0.0
S	39,917	200	860	1.3	693.3	693.3	693.3	0.0
T	44,510	90	275	4.0	702.2	702.2	702.2	0.0
U	44,669	25	165	6.7	702.9	702.9	702.9	0.0
V	46,517	70	150	4.7	706.8	706.8	706.8	0.0
W	49,474	45	100	7.0	716.4	716.4	716.4	0.0
X	49,579	120	105	6.7	719.4	719.4	719.4	0.0

[1]Feet above confluence with Duck Creek

*Data not shown because flooding is influenced by confluence with Duck Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY
BROWN COUNTY, WI
AND INCORPORATED AREAS

FLOODWAY DATA

TROUT CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Unnamed Tributary to Green Bay								
A	283	61	112	2.5	591.0	591.0	591.0	0.0
B	429	37	90	4.0	594.4	594.4	594.4	0.0
C	665	47	43	4.1	601.3	601.3	601.3	0.0
D	901	41	55	3.2	604.9	604.9	604.9	0.0
E	1,154	62	47	3.7	610.9	610.9	610.9	0.0
F	1,428	68	76	2.3	613.8	613.8	613.8	0.0
G	2,135	81	78	2.3	624.1	624.1	624.1	0.0

[1]Feet above confluence with Green Bay

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

UNNAMED TRIBUTARY TO GREEN BAY

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Vanguard Way Tributary to Lancaster Creek								
A	184	22	20	9.2	613.5	613.5	613.5	0.0
B	398	16	19	9.7	618.5	618.5	618.5	0.0
C	602	21	43	4.3	623.2	623.2	623.2	0.0
D	755	16	25	7.3	628.8	628.8	628.8	0.0

[1]Feet above confluence with Lancaster Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

VANGUARD WAY TRIBUTARY TO LANCASTER CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WIDTH REDUCED FROM PRIOR STUDY	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
West Verlin Tributary to Willow Creek									
A	85	271	1,638	0.2	-17	589.9	587.3[2]	587.3	0.0
B	1,038	102	286	1.2	-6	589.9	587.3[2]	587.3	0.0
C	1,516	185	1,133	0.6	-1	589.9	589.0[2]	589.0	0.0
D	1,722	40	345	2.4	3	589.9	589.1[2]	589.1	0.0
E	2,395	39	287	2.0	3	590.5	590.5	590.5	0.0
F	2,635	60	195	1.5	-26	591.0	591.0	591.0	0.0
G	3,595	26	651	2.9	-4	592.5	592.5	592.5	0.0
H	4,592	52	337	2.5	9	594.5	594.5	594.5	0.0
I	5,500	98	778	1.6	-1	596.6	596.6	596.6	0.0

[1] Feet above mouth at Willow Creek

[2] Elevations computed without consideration of backwater effects

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

WEST VERLIN TRIBUTARY TO WILLOW CREEK

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Willow Creek								
A	1,558	287	1,304	1.5	589.9	587.3[2]	587.3	0.0
B	2,571	1,207	4,275	0.5	589.9	588.7[2]	588.7	0.0
C	3,584	1,092	1,522	1.3	589.9	588.8[2]	588.8	0.0
D	4,413	860	4,138	0.5	590.2	590.2	590.2	0.0
E	5,019	694	883	2.2	590.2	590.2	590.2	0.0
F	5,364	878	2,458	0.8	590.5	590.5	590.5	0.0
G	6,515	641	993	1.9	590.8	590.8	590.8	0.0
H	6,876	219	333	5.1	592.6	592.6	592.6	0.0
I	8,645	54	189	8.9	596.4	596.4	596.4	0.0
J	9,345	64	229	7.4	600.1	600.1	600.1	0.0
K	9,706	131	319	5.3	603.9	603.9	603.9	0.0
L	10,175	252	691	2.4	606.5	606.5	606.5	0.0
M	11,247	222	533	3.2	608.3	608.3	608.3	0.0
N	12,204	315	711	2.3	610.8	610.8	610.8	0.0
O	13,099	171	463	3.5	612.2	612.2	612.2	0.0
P	14,727	265	747	2.2	616.3	616.3	616.3	0.0
Q	16,400	350	493	3.3	619.6	619.6	619.6	0.0
R	16,575	316	650	2.5	620.5	620.5	620.5	0.0
S	17,239	330	664	2.4	622.2	622.2	622.2	0.0
T	17,648	199	851	1.9	624.2	624.2	624.2	0.0
U	17,909	198	676	2.3	625.1	625.1	625.1	0.0
V	18,542	185	758	2.1	627.1	627.1	627.1	0.0
W	18,849	140	490	3.1	628.6	628.6	628.6	0.0
X	19,580	226	789	1.1	629.4	629.4	629.4	0.0
Y	20,562	69	586	1.5	643.4	643.4	643.4	0.0
Z	21,669	272	1,222	0.7	643.5	643.5	643.5	0.0

[1]Feet above mouth
[2]Elevations computed without consideration of backwater effects from East River.

Table 23: Floodway Data *(continued)*

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY[2]	WITH FLOODWAY	INCREASE
Willow Creek (continued)								
AA	22,424	201	367	2.3	643.8	643.8	643.8	0.0
AB	23,242	95	171	4.9	650.0	650.0	650.0	0.0
AC	23,600	275	3,135	0.3	665.3	665.3	665.3	0.0
AD	24,549	116	177	4.6	667.5	667.5	667.5	0.0
AE	24,904	165	255	3.2	673.6	673.6	673.6	0.0
AF	25,870	247	382	2.1	680.3	680.3	680.3	0.0
AG	26,530	206	328	2.5	683.1	683.1	683.1	0.0
AH	26,868	8	53	15.2	691.4	691.4	691.4	0.0
AI	27,254	69	1,084	0.8	701.2	701.2	701.2	0.0
AJ	27,711	249	2,219	0.4	701.2	701.2	701.2	0.0
AK	28,469	243	937	0.9	701.3	701.3	701.3	0.0
AL	30,570	178	348	2.3	709.8	709.8	709.8	0.0
AM	31,228	208	2,080	0.3	726.5	726.5	726.5	0.0
AN	32,402	236	1,876	0.3	726.5	726.5	726.5	0.0
AO	34,038	276	762	0.8	731.6	731.6	731.6	0.0
AP	34,559	173	242	2.5	734.1	734.1	734.1	0.0
AQ	35,420	214	325	1.8	738.8	738.8	738.8	0.0
AR	36,682	123	236	2.5	746.2	746.2	746.2	0.0
AS	39,191	113	114	3.2	760.3	760.3	760.3	0.0

[1]Feet above mouth
[2]Elevation reflects East River backwater elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

WILLOW CREEK

Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams

[Not applicable for this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

Flood insurance zones and BFEs including the wave effects were identified on each transect based on the results from the onshore wave hazard analyses. Between transects, elevations were interpolated using topographic maps, land-use and land-cover data, and knowledge of coastal flood processes to determine the aerial extent of flooding. Sources for topographic data are shown in Table 22.

Zone VE is subdivided into elevation zones and BFEs are provided on the FIRM.

The limit of Zone VE shown on the FIRM is defined as the farthest inland extent of any of these criteria (determined for the 1-percent-annual-chance flood condition):

- The *primary frontal dune zone* is defined in 44 CFR Section 59.1 of the NFIP regulations. “The primary frontal dune represents a continuous or nearly continuous mound or ridge of sand with relatively steep seaward and landward slopes that occur immediately landward and adjacent to the beach. The primary frontal dune zone is subject to erosion and overtopping from high tides and waves during major coastal storms. The inland limit of the primary frontal dune zone occurs at the point where there is a distinct change from a relatively steep slope to a relatively mild slope.”

- The *wave runup Zone VE* occurs where the (eroded) ground profile is 3.0 feet or more below the 2-percent wave runup elevation.

- The *wave overtopping splash Zone VE* is the area landward of the crest of an overtopped barrier, in cases where the potential 2-percent wave runup exceeds the barrier crest elevation.

- The breaking wave height Zone VE occurs where 3-foot or greater wave heights could occur.

- The *high-velocity flow Zone VE* is landward of the overtopping splash zone (or area on a sloping beach or other shore type), where the product of depth of flow times the flow velocity squared (hv2) is greater than or equal to 200 ft3/sec2.

The SFHA boundary indicates the landward extent of the coastal SFHAs shown on the FIRM as Zones VE, AE, AO, AH, or A.

Table 25 indicates the coastal analyses used for floodplain mapping and the criteria used to determine the inland limit of the open-coast Zone VE and the SFHA boundary at each transect.

Table 25: Summary of Coastal Transect Mapping Considerations

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
BR-01^	N/A	N/A	VE 587, AE 586 - 585	Breaking Wave Height	SWEL + Wave Setup
BR-02	N/A	N/A	VE 587, AE 585	Breaking Wave Height	SWEL + Wave Setup
BR-03	N/A	VE 586, AE 586	AE 585	Runup	SWEL + Wave Setup
BR-04^	N/A	N/A	VE 587, AE 586 - 585	Breaking Wave Height	SWEL + Wave Setup
BR-05^	N/A	N/A	VE 587, AE 586 - 585	Breaking Wave Height	SWEL + Wave Setup
BR-06	N/A	VE 587	AE 586 - 585	Runup	SWEL + Wave Setup
BR-07^	N/A	VE 587	AE 586	Runup	Runup
BR-08	N/A	VE 588, AO3	AE 585	Runup	SWEL
BR-09^	N/A	VE 588, AO1, AE 585	N/A	Runup	Runup
BR-10	N/A	N/A	VE 588	Runup	Runup
BR-11	N/A	N/A	VE 588	Runup	Runup
BR-12	N/A	N/A	VE 587, AE 586	Breaking Wave Height	SWEL + Wave Setup
BR-13	N/A	AE 586	VE 587	Breaking Wave Height	Runup
BR-14	N/A	N/A	VE 587, AE 585	Breaking Wave Height	SWEL + Wave Setup
BR-15	N/A	N/A	VE 587, AE 586 - 585	Breaking Wave Height	SWEL + Wave Setup
BR-16	N/A	AE 586	VE 587	Breaking Wave Height	Runup
BR-17	N/A	VE 586, AE 586	VE 588	Runup	Runup
BR-18	N/A	VE 588	N/A	Runup	Runup
BR-19	N/A	N/A	VE 587, AE 586	Breaking Wave Height	Runup
BR-20 (Failed)	N/A	VE 587	VE 587	Runup	Runup
BR-21 (Failed)	N/A	VE 587	VE 587	Runup	Runup
BR-22	N/A	AE 586	VE 587	Runup	Runup

^Data provided for offshore shoreline only, where transect crosses multiple shorelines

A LiMWA boundary has also been added in coastal areas subject to overland wave propagation for use by local communities in safe rebuilding practices. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave.

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 30, "Map Repositories").

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA. A LOMA cannot be issued for properties located on the PFD (primary frontal dune).

To obtain an application for a LOMA, visit www.fema.gov/flood-maps/change-your-flood-zone and download the form "MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill". Visit the "Flood Map-Related Fees" section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at https://www.fema,gov/online-tutorials.

For more information about how to apply for a LOMA, call the FEMA Mapping and Insurance eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA's determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting www.fema.gov/flood-maps/change-your-flood-zone for the "MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill" or by calling the FEMA Mapping and Insurance eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the "Flood Map-Related Fees" section.

A tutorial for LOMR-F is available at https://www.fema.gov/online-tutorials.

6.5.3 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visitwww.fema.gov/flood-maps/change-your-flood-zone and download theform “MT-2 Application Forms and Instructions for Conditional Letters of MapRevision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determinethe cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Mapping and Insurance eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Brown County FIRM are listed in Table 26.

Table 26: Incorporated Letters of Map Change

Case Number	Effective Date	Flooding Source	FIRM Panel(s)
17-05-2419P	10-20-2017	Willow Creek	55009C0257G, 55009C0276G
19-05-1294P	02-15-2019	Lake Michigan	55009C0183G, 55009C0184G
20-05-2968P	10-16-2020	Ashwaubenon Creek	55009C0256G, 55009C0258G

6.5.4 Physical Map Revisions

A Physical Map Revisions (PMR) is an official republication of a community’s NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community’s chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit www.fema.gov and visit the “Flood Map Revision Processes” section.

6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Brown County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBMs) and/or Flood Boundary and Floodway Maps (FBFMs) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 27, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.

- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS Reports) is shown. If the community is listed in Table 27 but not identified on the map, the community is treated as if it were unmapped.

- *Initial FHBM Effective Date* is the effective date of the first FHBM. This date may be the same date as the Initial NFIP Map Date.

- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.

- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community.

- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as PMRs of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Brown County FIRMs in countywide format was 08/18/2009.

Table 27: Community Map History

Community Name/ Tribal Nation	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Allouez, Village of[2]	08/18/2009	N/A	N/A	08/18/2009	05/09/2023
Ashwaubenon, Village of	10/27/1978	10/27/1978	N/A	09/28/1979	05/09/2023 03/17/2014 08/18/2009
Bellevue, Village of[2]	08/18/2009	N/A	N/A	08/18/2009	05/09/2023
Brown County, Unincorporated Areas	04/17/1978	N/A	N/A	04/17/1978	05/09/2023 03/17/2014 08/18/2009 11/04/1992 2/19/1982
De Pere, City of	12/28/1973	12/28/1973	06/04/1976 02/23/1979	07/02/1981	05/09/2023 08/18/2009
Denmark, Village of [1,2]	08/18/2009	N/A	N/A	08/18/2009	N/A
Green Bay, City of	08/30/1974	08/30/1974	11/07/1975	09/30/1977	05/09/2023 03/17/2014 08/18/2009 06/01/1984 08/14/1981 01/11/1980
Hobart, Village of	04/17/1978	N/A	N/A	04/17/1978	03/17/2014 08/18/2009 11/04/1992 02/19/1982
Howard, Village of	12/28/1973	12/28/1973	05/14/1976	02/17/1982	05/09/2023 03/17/2014 08/18/2009
The Oneida Nation of Wisconsin[2]	08/18/2009	N/A	N/A	08/18/2009	03/17/2014
Pulaski, Village of	05/24/1974	05/24/1974	05/28/1976	08/03/1981	03/17/2014 08/18/2009
Suamico, Village of[2]	08/18/2009	N/A	N/A	08/18/2009	05/09/2023 03/17/2014
Wrightstown, Village of	08/22/1975	08/22/1975	N/A	05/19/1981	08/18/2009

[1] No Special Flood Hazard Areas identified

[2] This community did not have a FIRM prior to the first countywide FIRM for Brown County

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 28 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 28: Summary of Contracted Studies Included in this FIS Report

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
Apple Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Ash Street Tributary to Lancaster Creek	08/18/2009	Wisconsin Department of Natural Resources (WDNR)	*	August 2006	Howard, Village of
Ashwaubenon Creek	08/18/2009	WIDNR	HSFE05-12-J-0014	August 2006	Ashwaubenon, Village of; Brown County, Unincorporated Areas; De Pere, City of
Ashwaubenon Creek (Middle)	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas; De Pere, City of
Ashwaubenon Creek (Upper)	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Baird Creek	08/18/2009	WIDNR	*	August 2006	Green Bay, City of
Baird Creek Tributary	08/18/2009	WIDNR	*	August 2006	Green Bay, City of
Baird Creek Tributary 6	08/18/2009	WIDNR	*	August 2006	Green Bay, City of
Bakers Creek	08/18/2009	WIDNR	*	August 2006	Howard, Village of
Bakers Creek Tributary	08/18/2009	WIDNR	*	August 2006	Howard, Village of
Barina Creek	08/18/2009	WIDNR	*	August 2006	Green Bay, City of
Beaver Dam Creek	08/18/2009	WIDNR	*	August 2006	Green Bay, City of; Howard, Village of
Bower Creek	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Brown County, Unincorporated Areas

* Data unavailable

Table 28: Summary of Contracted Studies Included in this FIS Report *(continued)*

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
Bower Creek Tributary	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Bower Creek Tributary 1	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Brown County, Unincorporated Areas
Bower Creek Tributary 2	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Brown County, Unincorporated Areas
Bower Creek Tributary A	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Brown County, Unincorporated Areas
Bower Creek Tributary B	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Brown County, Unincorporated Areas
Branch of Plum Creek	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Branch of Plum Creek Lower Tributary	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Branch of Plum Creek Upper Tributary	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Branch River	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Branch River Downstream	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Branch River Upstream	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Duck Creek	08/18/2009	WIDNR	*	August 2006	Green Bay, City of; Hobart and Howard, Villages of; The Oneida Nation of Wisconsin
Duck Creek Tributary Stream 11	08/18/2009	WIDNR	*	August 2006	Green Bay, City of; The Oneida Nation of Wisconsin

* Data unavailable

Table 28: Summary of Contracted Studies Included in this FIS Report *(continued)*

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
Duck Creek Tributary Stream 12	08/18/2009	WIDNR	*	August 2006	Green Bay, City of; Hobart, Village of; The Oneida Nation of Wisconnsin
Dutchman Creek	08/18/2009	USACE	EMW-88-E-2768	September 1989	Allouez, Ashwaubenon, and Hobart, Villages of
Dutchman Creek North Tributary	08/18/2009	WIDNR	*	August 2006	Ashwaubenon, Village of
Dutchman Creek South Tributary	08/18/2009	WIDNR	*	August 2006	Ashwaubenon, Village of
Dutchman Creek Southeast Tributary	08/18/2009	WIDNR	*	August 2006	Ashwaubenon, Village of
Dutchman Creek Southwest Tributary	08/18/2009	WIDNR	*	August 2006	Ashwaubenon, Village of
East River	08/18/2009	USACE	EMW-89-E-3218	September 1990	Allouez and Bellevue, Villages of; Brown County, Unincorporated Areas; De Pere and Green Bay, Cities of
East River Tributary	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
East River Tributary A	08/18/2009	Mead & Hunt, Inc.	*	June 1994	Brown County, Unincorporated Areas; De Pere, City of
East River Tributary B	08/18/2009	Mead & Hunt, Inc.	*	June 1994	Brown County, Unincorporated Areas
East River Tributary C	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary D	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas

* Data unavailable

Table 28: Summary of Contracted Studies Included in this FIS Report *(continued)*

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
East River Tributary D2	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary E	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary E2	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary F	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary F2	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary G	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary G2	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary H	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary I	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary J	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary J2	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East River Tributary J3	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
East Verlin North Tributary to Willow Creek	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of;

* Data unavailable

Table 28: Summary of Contracted Studies Included in this FIS Report *(continued)*

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
East Verlin Tributary to Willow Creek	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Green Bay, City of
Ellis Creek	08/18/2009	WIDNR	*	August 2006	Green Bay, City of
ERT Overflow 1	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
ERT Overflow 2	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Fox River	08/18/2009	WIDNR	*	August 2016	Allouez, Ashwaubenon, and Wrightstown, Villages of; Brown County, Unincorporated Areas; De Pere and Green Bay, Cities of
Green Bay/Lake Michigan	05/09/2023	STARR	HSFE05-12-J-0014	September 2017	Brown County, Unincorporated Areas; Green Bay, City of; Howard and Suamico, Villages of
Haller Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Suamico, Village of
Hemlock Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas; De Pere, City of
Lancaster Creek	08/18/2009	Owen Ayers & Associates	*	August 1991	Howard, Village of
Lancaster Creek Tributary	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Howard, Village of
Mahon Creek	08/18/2009	WIDNR	*	August 2006	Green Bay, City of
Middle Branch Little Suamico River	08/18/2009	WIDNR	*	August 2006	Pulaski, Village of
Moose Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Suamico, Village of

* Data unavailable

Table 28: Summary of Contracted Studies Included in this FIS Report *(continued)*

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
Neshota River	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
North Branch Ashwaubenon Creek	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas; Hobart, Village of
North Branch Bakers Creek	08/18/2009	WIDNR	*	August 2006	Howard, Village of
North Branch Suamico River	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
North Branch Wequiock Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
North Branch Willow Creek	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Green Bay, City of
North Pulaski Tributary	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Pulaski, Village of
North Tributary South Branch Ashwaubenon Creek	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
Oneida Creek	08/18/2009	WIDNR	*	August 2006	Green Bay, City of; The Oneida Nation of Wisconsin
Pioneer Tributary to Duck Creek	08/18/2009	WIDNR	*	August 2006	Howard, Village of
Plum Creek	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas; Wrightstown, Village of
Plum Creek Tributary 1	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Plum Creek Tributary 2	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas

* Data unavailable

Table 28: Summary of Contracted Studies Included in this FIS Report *(continued)*

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
Plum Creek Tributary 3	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Plum Creek Tributary 4	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Potter Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Sorensons Creek	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Brown County, Unincorporated Areas
Sorensons Creek Tributary	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of
South Branch Ashwaubenon Creek	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas
South Branch Little Suamico Creek	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas; Pulaski, Village of
South Tributary to Willow Creek	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of
Spring Creek	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of
Spring Creek Tributary A	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Green Bay, City of
Spring Creek Tributary A Ditch	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of
Spring Creek Tributary B	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of
Suamico River	08/18/2009	WIDNR	*	August 2006	Brown County, Unincorporated Areas; Suamico, Village of

* Data unavailable

Table 28: Summary of Contracted Studies Included in this FIS Report *(continued)*

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
Tributary 1 to Dutchman Creek Southwest Tributary	08/18/2009	WIDNR	*	August 2006	Ashwaubenon and Hobart, Villages of
Tributary 2 to Dutchman Creek Southwest Tributary	08/18/2009	WIDNR	*	August 2006	Ashwaubenon, Village of
Tributary 3 to Dutchman Creek Southwest Tributary	08/18/2009	WIDNR	*	August 2006	Ashwaubenon, Village of
Trout Creek	08/18/2009	STARR	10-05-4875P	October 2012	Green Bay, City of; Hobart, Village of; The Oneida Nation of Wisconsin
Unnamed Tributary 1 to Duck Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Hobart, Village of; The Oneida Nation of Wisconsin
Unnamed Tributary 1.1 to Duck Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Hobart, Village of; The Oneida Nation of Wisconsin
Unnamed Tributary 1.2 to Duck Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Hobart, Village of
Unnamed Tributary 1.2.1 to Duck Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Hobart, Village of; The Oneida Nation of Wisconsin
Unnamed Tributary 1 to Ashwaubenon Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Unnamed Tributary 2 to Ashwaubenon Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Unnamed Tributary to Bower Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas

* Data unavailable

Table 28: Summary of Contracted Studies Included in this FIS Report *(continued)*

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities/ Tribal Nations
Unnamed Tributary to Bower Creek Tributary B	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Unnamed Tributary to Green Bay	08/18/2009	WIDNR	*	August 2006	Green Bay, City of
Unnamed Tributary to Haller Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Suamico, Village of
Unnamed Tributary to Plum Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Unnamed Tributary to the West Branch Suamico River	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
Vanguard Way Tributary to Lancaster Creek	08/18/2009	WIDNR	*	August 2006	Howard, Village of
Wequiock Creek	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
West Branch Suamico River	08/18/2009	CDM	HSFE05-05-D-0027/TO09	August 2006	Brown County, Unincorporated Areas
West Verlin Tributary to Willow Creek	08/18/2009	WIDNR	*	August 2006	Allouez and Bellevue, Villages of; Green Bay, City of
Willow Creek	08/18/2009	WIDNR	*	August 2006	Bellevue, Village of; Green Bay, City of
	05/09/2023	Cedar Corporation	*	October 2017	Bellevue, Village of

* Data unavailable

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and previous Flood Risk Projects are shown in Table 29. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.,), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 29: Community Meetings

Community/Tribal Nation	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Allouez, Village of	May 9, 2023	January 14, 2021	Final CCO	FEMA, WIDNR, STARR II, and the community
		July 28, 2017	Flood Risk Review	FEMA, WIDNR, STARR, and the Village of Allouez
Ashwaubenon, Village of	May 9, 2023	January 14, 2021	Final CCO	FEMA, WIDNR, STARR II, and the community
Bellevue, Village of	May 9, 2023	January 14, 2021	Final CCO	FEMA, WIDNR, STARR II, and the community
		July 28, 2017	Flood Risk Review	FEMA, WIDNR, STARR, and the Village of Bellevue
Brown County, Unincorporated Areas	May 9, 2023	January 14, 2021	Final CCO	FEMA, WIDNR, STARR II, and the community
		July 28, 2017	Flood Risk Review	FEMA, WIDNR, STARR, and Brown County, Unincorporated Areas
De Pere, City of	May 9, 2023	January 14, 2021	Final CCO	FEMA, WIDNR, STARR II, and the community
Denmark, Village of	August 18, 2009	August 15, 2007	Final CCO	FEMA, WIDNR, CDM, and the Village of Denmark
Green Bay, City of	May 9, 2023	January 14, 2021	Final CCO	FEMA, WIDNR, STARR II, and the community
		July 28, 2017	Flood Risk Review	FEMA, WIDNR, STARR, and the City of Green Bay
Hobart, Village of	March 17, 2014	April 15, 2013	Final CCO	FEMA, WIDNR, STARR, and the Village of Hobart
Howard, Village of	May 9, 2023	January 14, 2021	Final CCO	FEMA, WIDNR, STARR II, and the community
		July 28, 2017	Flood Risk Review	FEMA, WIDNR, STARR, and the Village of Howard
Pulaski, Village of	August 18, 2009	August 15, 2007	Final CCO	FEMA, WIDNR, CDM, and the Village of Pulaski

Table 29: Community Meetings *(continued)*

Community/Tribal Nation	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Suamico, Village of	May 9, 2023	January 14, 2021	Final CCO	FEMA, WIDNR, STARR II, and the community
The Oneida Nation of Wisconsin	March 17, 2014	April 15, 2013	Final CCO	FEMA, WIDNR, STARR, and The Oneida Nation of Wisconsin
Wrightstown, Village of	August 18, 2009	August 15, 2007	Final CCO	FEMA, WIDNR, CDM, and the Village of Wrightstown

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see https://www.fema.gov.

Table 30 is a list of the locations where FIRMs for Brown County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 30: Map Repositories

Community/Tribal Nation	Address	City	State	Zip Code
Allouez, Village of	Brown County Office Northern Building 305 East Walnut Street Room 320	Green Bay	WI	54301
Ashwaubenon, Village of	Village Hall 2155 Holmgren Way	Ashwaubenon	WI	54304
Bellevue, Village of	Village Offices 2828 Allouez Avenue	Bellevue	WI	54311
Brown County, Unincorporated Areas	Brown County Office Northern Building 305 East Walnut Street Room 320	Green Bay	WI	54301
De Pere, City of	City Hall 335 South Broadway	De Pere	WI	54115
Denmark, Village of [1]	Village Hall 118 East Main Street	Denmark	WI	54208
Green Bay, City of	City Hall 100 North Jefferson Street	Green Bay	WI	54301
Hobart, Village of	Village Hall 2990 South Pine Tree Road	Hobart	WI	54155
Howard, Village of	Village Hall 2456 Glendale Avenue	Howard	WI	54313
The Oneida Nation of Wisconsin	Norbert Hill Center North 7210 Seminary Road	Oneida	WI	54155
Pulaski, Village of	Village Hall 421 South St. Augustine Street	Pulaski	WI	54162
Suamico, Village of	Municipal Services Center 12781 Velp Avenue	Suamico	WI	54313
Wrightstown, Village of	Village Hall 529 Main Street	Wrightstown	WI	54180

[1] No Special Flood Hazard Areas identified

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM Databases and LOMCs. Together they create a GIS data layer for a State or Territory.

The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 31.

Table 31 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the State NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of State and local GIS data in their state.

Table 31: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	https://www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library
NFIP website	https://www.fema.gov/national-flood-insurance-program
NFHL Dataset	https://msc.fema.gov
FEMA Region V	536 South Clark Street Chicago, Illinois 60605 (312) 408-5500
Other Federal Agencies	
USGS website	www.usgs.gov
Hydraulic Engineering Center website	www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	Michelle Staff, CFM Wisconsin Department of Natural Resources Post Office Box 7921 Madison, Wisconsin 53707 (608) 266-3093 michelle.staff@wisconsin.gov
State GIS Coordinator	Curtis Pulford Geographic Information Officer State of Wisconsin DOA Division of Enterprise Technology 101 East Wilson Street Post Office Box 7844 Madison, Wisconsin 53707-7844 (608) 261-5042 curtis.pulford@wisconsin.gov

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 32 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

Table 32: Bibliography and References

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
ADCIRC	U.S. Army Corps of Engineers, Engineer and Research Development Center (ERDC)	*ADvanced CIRCulation Model*	US Army Cops of Engineers	Vicksburg, MS		
BCLIO (2008)	Brown County Land Information Office	*PLSS and Municipal Boundary*	PLSS and Municipal Boundary features	Green Bay, WI	January 2008	
BROWN (2010)	Brown County, WI	*Brown County, WI LiDAR 2010*	Ayres Associates Inc	Madison, WI	April 2010	
CDM (1998)	CDM	*WSEL and stream centerlines for approximate study*	CDM	Washington, D.C.	January 1998	
Census (2018)	U.S. Census Bureau	*Tiger Roads Data*	U.S. Census Bureau	Washington, D.C.	September 2018	ftp://ftp2.census.gov/geo/tiger/TIGER2018/ROADS/
CSHORE	U.S. Army Corps of Engineers, Engineer and Research Development Center (ERDC)	*Cross-Shore Numerical Model*	N. Kobayashi et. al	Vicksburg, MS	April 2014	
DIM	FEMA	*Coastal Flood Hazard Analysis and Mapping for the Pacific Coast of the United States, Section D.4.2 – Study Methodology*	FEMA	Washington, D.C.	January 2005	
FEMA	FEMA	*FIS Effective dates*	FEMA	Washington, D.C.	September 1979	

Table 32: Bibliography and References *(continued)*

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA (2004)	FEMA	*Stream Layer Effective Date*	FEMA	Washington, D.C.	January 2004	
FEMA (2004)	FEMA	*Location of roads, railroads, bridges, streams and other physical features*	FEMA	Washington, D.C.	April 2004	
FEMA (2008)	FEMA	*Grid of DFIRM Panels*	FEMA	Washington, D.C.	January 2008	
FEMA (2010)	FEMA	*Effective LOMR 10-05-2748P*	FEMA	Washington, D.C.	December 2010	
FEMA (2011)	FEMA	*Effective LOMR 10-05-6098P*	FEMA	Washington, D.C.	July 2011	
FEMA (2011)	FEMA	*Effective LOMR 11-05-4502P*	FEMA	Washington, D.C.	November 2011	
FEMA (2012)	FEMA	*Effective LOMR 11-05-2704P*	FEMA	Washington, D.C.	January 2012	
FEMA (2012)	FEMA	*Effective LOMR 12-05-1916P*	FEMA	Washington, D.C.	July 2012	
FEMA (2012)	FEMA	*Trout Creek LOMR 10-05-4857P*	FEMA	Washington, D.C.	January 2012	
FEMA (2013)	FEMA	*Effective LOMR 12-05-4503P*	FEMA	Washington, D.C.	March 2013	
FEMA (2014)	FEMA	*Effective LOMR 14-05-3376P*	FEMA	Washington, D.C.	December 2014	
FEMA (2014)	FEMA	*Brown County Effective DFIRM Database*	FEMA	Washington, D.C.	March 2014	https://msc.fema.gov/portal/advanceSearch#searchresultsanchor

Table 32: Bibliography and References *(continued)*

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA (2014)	FEMA	*Effective LOMR 13-05-5752P*	FEMA	Washington, D.C.	March 2014	
FEMA (2014)	FEMA	*Effective LOMR 13-05-5753P*	FEMA	Washington, D.C.	February 2014	
FEMA (2014)	FEMA	*Effective LOMR 14-05-2566P*	FEMA	Washington, D.C.	December 2014	
FEMA (2014)	FEMA	*FEMA Great Lakes Coastal Guidelines, Appendix D.3 Update*	FEMA	Washington, D.C.	January 2014	
FEMA (2014)	FEMA	*Effective LOMR 14-05-3375P*	FEMA	Washington, D.C.	December 2014	
FEMA (2017)	FEMA	*Effective LOMR 16-05-4339P*	FEMA	Washington, D.C.	September 2017	
FEMA (2017)	FEMA	*LOMR 17-05-2419P*	FEMA	Washington, D.C.	October 2017	https://msc.fema.gov/portal/advanceSearch#searchresultsanchor
FEMA (2018)	FEMA	*Effective LOMR 17-05-5248P*	FEMA	Washington, D.C.	April 2018	
FEMA (2018)	FEMA	*Guidance for Flood Risk Analysis and Mapping: Coastal Wave Runup and Overtopping*	FEMA	Washington, D.C.	February 2018	
HEC-1	U.S. Army Corps of Engineers, Hydrologic Engineering Center	*HEC-1 Flood Hydrograph Package, Computer Program 723-X6- L2010*	US Army Corps of Engineers	Davis, CA	January 1985	

Table 32: Bibliography and References *(continued)*

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
HEC-2	U.S. Army Corps of Engineers, Hydrologic Engineering Center	*HEC-2 Water Surface Profiles, Computer Program 723-X6-L202A*	US Army Corps of Engineers	Davis, CA	April 1984	
HEC-RAS	U.S. Army Corps of Engineers, Hydrologic Engineering Center	*HEC-RAS River Analysis System, Version 3.1.3*	US Army Corps of Engineers	Davis, CA	May 2005	
JALBTCX (2013)	US Amy Corps of Engineers, JALBTCX	*LiDAR*	US Army Corps of Engineers, JALBTCX	Kiln, MI	January 2013	
NEH (1972)	U.S. Department of Agriculture, Soil Conservation Service	*National Engineering Handbook, Section 4, Hydrology, Part I, Watershed Planning*	U.S. Department of Agriculture, Soil Conservation Service	Washington, D.C.	January 1972	
STARR (2017)	STARR	*Brown County Lake Michigan Coastal Update*	FEMA	Calverton, MD		https://www.fema.gov
Stock, et al. (2006)	Coastal Engineering, Volume 53	*Empiracal Parameterization of Setup, Swash, and Runup*	H.F. Stockdon, et al.	Washington, D.C.	January 2006	
SWAN	Delft University of Technology	*Simulating WAves Nearshore Model*	Booij, et. al.	The Netherlands		

Table 32: Bibliography and References *(continued)*

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
TR-20	U.S. Department of Agriculture, Soil Conservation Service, Engineering Division	*Technical Release No, 20, Computer Program for Project Formulation, Hydrology*	U.S. Department of Agriculture, Soil Conservation Service, Engineering Division	Washington, D.C.	May 1965	
TR-55	U.S. Department of Agriculture, Soil Conservation Service (SCS)	*Technical Release No. 55: Urban Hydrology for Small Watersheds*	U.S. Department of Agriculture, Soil Conservation Service (SCS)	Washington, D.C.	January 1975	
USACE (1984)	U.S. Army Corps of Engineers, ERDC	*Shore Protection Manual*	U.S. Army Corps of Engineers, ERDC	Vicksburg, MS	January 1984	https://usace.contentdm.p16021coll11/id/1932
USACE (2012)	US Amy Corps of Engineers	*USACE Structures*	US Army Corps of Engineers	Reston, VA	September 2012	http://www.lrc.usace.army.mil/
USDA/FSA (2017)	USDA FSA Aerial Photography Field Office	*2017 NAIP DOP Imagery*	USDA FSA Aerial Photography Field Office	Salt Lake City, UT	November 2017	https://gdg.sc.egov.usda.gov/
USGS/USDA (2017)	USGS and USDA - NRCS	*Watershed Boundary Dataset (WBD), HUC8 Boundaries*	USGS	Sioux Falls, SD	September 2017	https://datagateway.nrcs.usda.gov/
Van Gent (2001)	Journal of Waterway, Port, Coastal, Engineering, Volume 127 (5)	*Wave Runup on Dikes with Shallow Foreshores*	M.R.A van Gent	Washington, D.C.	January 2001	

Table 32: Bibliography and References *(continued)*

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
WHAFIS	FEMA	*Wave Height Analysis for Flood Insurance Studies – WHAFIS Version 4.0*	D. Divoky	Washington, D.C.	August 2007	
WIDNR	Wisconsin Department of Natural Resources	*Fox River Redelineation*	FEMA	Washington, D.C.	August 2016	
WIDNR (2018)	Wisconsin DNR	*WIDNR*	Wisconsin DNR	Madison, WI	January 2018	https://data-wi-dnr.opendata.arcgis.com/datasets/24k-hydro-shorelines-banks