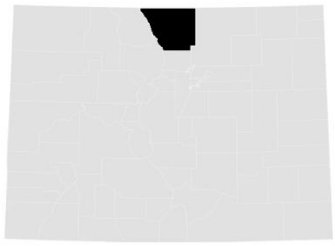
FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 6



LARIMER COUNTY, COLORADO

AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
BERTHOUD, TOWN OF	**080296**
ESTES PARK, TOWN OF	**080193**
FORT COLLINS, CITY OF	**080102**
JOHNSTOWN, TOWN OF	**080250**
LARIMER COUNTY, UNINCORPORATED AREAS	**080101**
LOVELAND, CITY OF	**080103**
TIMNATH, TOWN OF	**080005**
WELLINGTON, TOWN OF	**080104**

FEMA

REVISED:

JANUARY 15, 2021

FLOOD INSURANCE STUDY NUMBER
08069CV002E

Version Number 2.5.3.6

TABLE OF CONTENTS
Volume 1

TABLE OF CONTENTS

Volume 1

Figures

Volume 1

Tables

Volume 2

TABLE OF CONTENTS

Volume 2 (Continued)

Volume 2
Tables

Page

Volume 3
Exhibits

Volume 4
Exhibits

TABLE OF CONTENTS

Volume 4 (Continued)

Exhibits

Volume 5

Exhibits

TABLE OF CONTENTS

Volume 6

Exhibits

Flood Profiles

Published Separately

Table 23: Floodway Data (Continued)

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BO	40,296	247	665	4.4	5,009.4	5,009.4	5,009.4	0.0
BP	41,228	56	269	10.8	5,014.1	5,014.1	5,014.5	0.4
BQ	41,656	70	290	10.0	5,018.3	5,018.3	5,018.3	0.0
BR	42,040	1,019	918	3.2	5,021.5	5,021.5	5,021.5	0.0
BS	42,109	2,638	5,923	1.2	5,024.4	5,024.4	5,024.4	0.0
BT	42,557	749	1,174	0.9	5,024.5	5,024.5	5,024.5	0.0
BU	42,834	226	484	4.2	5,027.8	5,027.8	5,027.8	0.0
BV	43,643	64	253	7.5	5,032.6	5,032.6	5,032.6	0.0
BW	44,151	185	329	5.8	5,036.9	5,036.9	5,036.9	0.0
BX	44,677	324	725	2.6	5,039.0	5,039.0	5,039.0	0.0
BY	45,162	1,129	2,618	2.7	5,039.8	5,039.8	5,039.9	0.1
BZ	46,205	1,030	1,921	3.6	5,042.3	5,042.3	5,042.7	0.4
CA	46,718	900	1,877	3.7	5,044.7	5,044.7	5,044.8	0.1
CB	47,292	322	967	7.2	5,047.6	5,047.6	5,047.6	0.0
CC	48,698	1,020	1,622	4.3	5,051.0	5,051.0	5,051.2	0.2
CD	48,835	782	1,577	4.4	5,054.1	5,054.1	5,054.3	0.2

[1]Feet above confluence with Cache La Poudre River

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	500	254	784	5.4	4,874.7	4,874.7	4,875.0	0.3
B	1,500	639	2,012	2.1	4,876.4	4,876.4	4,876.9	0.5
C	3,100	1,340	2,141	2.0	4,880.2	4,880.2	4,880.5	0.3
D	4,714	1,700	2,335	1.8	4,886.3	4,886.3	4,886.7	0.4
E	5,956	1,420	1,545	2.7	4,888.6	4,888.6	4,888.9	0.3
F	6,799	1,174	2,116	2.0	4,890.5	4,890.5	4,890.6	0.1
G	7,794	450	1,222	3.3	4,893.6	4,893.6	4,893.8	0.2
H	8,790	525	1,501	2.7	4,896.2	4,896.2	4,896.7	0.5
I	9,854	378	1,093	3.7	4,899.4	4,899.4	4,899.8	0.4
J	10,347	169	388	7.1	4,904.5	4,904.5	4,904.5	0.0
K	11,181	981	4,990	0.7	4,905.8	4,905.8	4,905.8	0.0
L	11,845	695	1,115	3.8	4,905.8	4,905.8	4,905.8	0.0
M	12,589	200	807	5.2	4,906.8	4,906.8	4,907.3	0.5
N	13,410	250	520	8.1	4,911.3	4,911.3	4,911.6	0.3
O	13,977	830	1,835	2.3	4,912.7	4,912.7	4,913.2	0.5
P	14,426	550	677	6.2	4,913.9	4,913.9	4,914.2	0.3
Q	15,782	1,227	2,426	1.7	4,918.2	4,918.2	4,918.7	0.5
R	16,452	446	635	6.6	4,920.9	4,920.9	4,920.9	0.0

[1]Feet above Larimer County Road 5

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BOXELDER CREEK I-25 SPLIT

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	544	547	947	1.6	4,900.3	4,900.3	4,900.8	0.5
B	1,504	155	145	5.5	4,904.1	4,904.1	4,904.1	0.0

[1]Feet above confluence with Boxelder Creek I-25 Split

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BOXELDER CREEK I-25 SPLIT OVERFLOW

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	982	134	78	4.3	4,936.8	4,936.8	4,936.9	0.1
B	2,141	529	311	4.3	4,938.3	4,938.3	4,938.3	0.0
C	3,994	675	2,704	0.7	4,938.6	4,938.6	4,938.6	0.0
D	4,996	200	400	5.0	4,943.0	4,943.0	4,943.1	0.1
E	6,014	308	1,112	2.1	4,950.3	4,950.3	4,950.8	0.5
F	6,993	254	553	4.2	4,956.7	4,956.7	4,957.2	0.5
G	7,924	195	513	3.6	4,961.1	4,961.1	4,961.6	0.5
H	8,482	452	385	4.8	4,970.2	4,970.2	4,970.2	0.0
I	10,558	308	1,163	2.1	4,973.5	4,973.5	4,974.0	0.5
J	11,263	484	841	2.9	4,974.6	4,974.6	4,974.9	0.3

[1]Feet above confluence with Boxelder Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BOXELDER CREEK OVERFLOW - DOWNSTREAM

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	700	645	5.4	4,981.7	4,981.7	4,981.9	0.2
B	178	820	2,102	1.6	4,982.5	4,982.5	4,982.8	0.3
C	600	520	593	5.8	4,984.1	4,984.1	4,984.3	0.2
D	1,375	750	1,444	2.4	4,990.6	4,990.6	4,990.9	0.3
E	2,368	470	1,091	3.2	4,997.5	4,997.5	4,997.9	0.4
F	2,562	739	3,599	1.0	5,000.6	5,000.6	5,000.9	0.3
G	3,042	800	2,463	1.4	5,000.7	5,000.7	5,001.1	0.4
H	3,357	890	3,200	1.3	5,000.9	5,000.9	5,001.2	0.3
I	4,225	1,105	2,470	1.6	5,001.2	5,001.2	5,001.4	0.2
J	5,086	600	679	6.0	5,003.9	5,003.9	5,004.1	0.2
K	5,405	860	1,055	3.9	5,007.3	5,007.3	5,007.5	0.2
L	6,268	636	964	4.2	5,011.9	5,011.9	5,012.3	0.4
M	6,972	680	972	4.2	5,015.6	5,015.6	5,016.0	0.4
N	8,082	1,300	1,155	3.5	5,021.9	5,021.9	5,021.9	0.0
O	8,721	1,082	1,535	3.9	5,024.8	5,024.8	5,024.8	0.0
P	9,265	1,179	1,336	4.4	5,026.7	5,026.7	5,026.7	0.0
Q	9,765	1,214	2,115	2.4	5,029.4	5,029.4	5,029.4	0.0
R	10,655	1,102	1,885	2.7	5,033.5	5,033.5	5,033.5	0.0
S	11,096	1,226	1,184	4.3	5,038.0	5,038.0	5,038.0	0.0

[1]Feet above Larimer and Weld Canal

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	350	985	3,103	6.5	5,098.5	5,098.5	5,098.5	0.0
B	465	948	3,417	5.9	5,099.4	5,099.4	5,099.4	0.0
C	515	710	3,823	5.3	5,099.9	5,099.9	5,099.9	0.0
D	545	995	7,621	2.7	5,103.8	5,103.8	5,103.8	0.0
E	595	1,048	7,038	2.9	5,103.8	5,103.8	5,103.8	0.0
F	1,120	750	3,911	5.2	5,104.0	5,104.0	5,104.0	0.0
G	2,180	670	2,680	7.6	5,110.9	5,110.9	5,110.9	0.0
H	3,210	425	2,153	9.4	5,118.5	5,118.5	5,118.5	0.0
I	4,190	432	2,294	8.7	5,125.7	5,125.7	5,125.7	0.0
J	4,440	410	2,125	9.4	5,128.6	5,128.6	5,128.6	0.0
K	4,450	410	2,255	8.8	5,128.8	5,128.8	5,128.8	0.0
L	4,665	410	2,219	9.0	5,130.7	5,130.7	5,130.7	0.0
M	5,475	420	2,223	9.0	5,135.8	5,135.8	5,135.8	0.0
N	5,965	300	1,954	10.2	5,139.8	5,139.8	5,139.8	0.0
O	6,015	225	2,719	7.3	5,141.3	5,141.3	5,141.3	0.0
P	6,040	390	4,652	4.3	5,144.5	5,144.5	5,144.5	0.0
Q	6,090	445	3,848	4.2	5,144.5	5,144.5	5,144.5	0.0
R	6,670	145	1,363	14.6	5,146.8	5,146.8	5,146.8	0.0
S	7,180	440	2,725	7.3	5,152.3	5,152.3	5,152.3	0.0
T	7,685	185	1,465	13.6	5,152.7	5,152.7	5,152.7	0.0
U	9,265	140	1,442	13.5	5,168.3	5,168.3	5,168.3	0.0
V	10,565	275	2,445	8.0	5,175.4	5,175.4	5,175.4	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BUCKHORN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
W	11,340	515	2,933	6.7	5,181.6	5,181.6	5,181.6	0.0
X	13,175	870	4,336	4.5	5,192.9	5,192.9	5,192.9	0.0
Y	14,160	710	2,686	7.1	5,199.0	5,199.0	5,199.0	0.0
Z	15,210	470	2,369	8.1	5,205.5	5,205.5	5,205.5	0.0
AA	16,600	420	2,059	9.3	5,214.0	5,214.0	5,214.0	0.0
AB	18,110	645	2,360	8.1	5,226.0	5,226.0	5,226.0	0.0
AC	19,635	505	2,204	8.7	5,235.6	5,235.6	5,235.6	0.0
AD	20,875	370	2,018	9.2	5,243.6	5,243.6	5,243.6	0.0
AE	22,410	435	1,947	9.5	5,255.2	5,255.2	5,255.2	0.0
AF	24,225	525	2,390	7.8	5,270.7	5,270.7	5,270.7	0.0
AG	25,570	385	2,033	9.1	5,282.8	5,282.8	5,282.8	0.0
AH	27,140	845	2,975	6.2	5,294.3	5,294.3	5,294.3	0.0
AI	27,610	655	2,552	7.3	5,297.7	5,297.7	5,297.7	0.0
AJ	28,250	630	2,503	5.5	5,302.1	5,302.1	5,302.1	0.0
AK	28,300	435	2,806	4.9	5,302.6	5,302.6	5,302.6	0.0
AL	28,325	630	5,190	2.3	5,305.9	5,305.9	5,305.9	0.0
AM	28,375	740	4,337	3.2	5,305.9	5,305.9	5,305.9	0.0
AN	29,140	585	1,980	7.0	5,310.0	5,310.0	5,310.0	0.0
AO	30,530	495	1,763	7.9	5,322.7	5,322.7	5,322.7	0.0
AP	31,810	605	2,038	6.8	5,333.8	5,333.8	5,333.8	0.0
AQ	33,070	490	1,678	8.3	5,348.7	5,348.7	5,348.7	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: BUCKHORN CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	50	270[2]	9,231	1.2	4,790.7	4,790.7	4,790.7	0.0
B	1,175	700[2]	2,550	4.2	4,790.8	4,790.8	4,790.8	0.0
C	2,145	1,870[2]	5,057	2.1	4,792.1	4,792.1	4,792.2	0.1
D	3,255	2,500[3]	4,594	2.4	4,793.3	4,793.3	4,793.3	0.0
E	4,500	2,680[3]	975	11.1	4,796.3	4,796.3	4,796.3	0.0
F	4,630	2,740[3]	2,499	4.3	4,798.2	4,798.2	4,798.3	0.1
G	5,380	3,290[3]	6,787	2.0	4,799.6	4,799.6	4,799.9	0.3
H	6,660	3,770[3]	7,919	1.8	4,800.4	4,800.4	4,800.9	0.5
I	7,465	4,420[2]	15,234	1.0	4,800.8	4,800.8	4,801.1	0.3
J	7,835	5,020[2]	2,867	5.4	4,801.0	4,801.0	4,801.2	0.2
K	8,015	5,070	7,671	2.0	4,802.7	4,802.7	4,802.7	0.0
L	9,225	1,833	4,074	3.8	4,804.6	4,804.6	4,804.6	0.0
M	10,465	1,036	3,019	5.1	4,808.4	4,808.4	4,808.8	0.4
N	11,205	1,312	4,585	3.4	4,809.9	4,809.9	4,810.8	0.9
O	11,995	1,472	2,117	7.4	4,812.7	4,812.7	4,813.1	0.4
P	12,935	3,779	7,481	2.1	4,817.3	4,817.3	4,817.3	0.0
Q	13,053	2,400	10,094	1.6	4,818.1	4,818.1	4,818.9	0.8
R	13,673	3,190	7,329	2.2	4,818.6	4,818.6	4,819.3	0.7
S	13,728	3,190	8,665	1.8	4,819.7	4,819.7	4,820.6	0.9
T	14,428	3,600	11,992	1.3	4,820.7	4,820.7	4,821.4	0.7
U	15,578	1,610	2,799	4.1	4,821.3	4,821.3	4,822.1	0.8
V	16,718	928	3,086	3.8	4,824.2	4,824.2	4,824.7	0.5

[1]Feet above Larimer-Weld County Line Road
[2]Width excludes portion of floodway outside Larimer County
[3]Width includes portion of State Highway 392 Divided Flow Floodway from Weld County affecting Larimer County

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (**FEET**)	SECTION AREA (**SQ. FEET**)	MEAN VELOCITY (**FEET/ SEC**)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
W	17,143[1]	985	2,890	4.0	4,824.4	4,824.4	4,825.2	0.8
X	18,158[1]	800	2,404	4.8	4,827.3	4,827.3	4,827.3	0.0
Y	18,658[1]	700	1,853	6.2	4,828.9	4,828.9	4,828.9	0.0
Z	19,858[1]	1,400	2,573	4.6	4,832.4	4,832.4	4,833.3	0.9
AA	20,738[1]	500	2,218	5.3	4,835.0	4,835.0	4,835.4	0.4
AB	21,688[1]	1,350	2,010	5.9	4,837.3	4,837.3	4,837.9	0.6
AC	21,858[1]	124	1,278	9.2	4,838.8	4,838.8	4,838.8	0.0
AD	21,988[1]	1,625	2,969	4.0	4,839.7	4,839.7	4,839.7	0.0
AE	22,368[1]	2,626	6,048	1.9	4,840.1	4,840.1	4,840.1	0.0
AF	23,373[1]	107	748	15.1	4,840.4	4,840.4	4,840.4	0.0
AG	23,503[1]	1,000	1,790	6.3	4,844.8	4,844.8	4,844.8	0.0
AH	24,428[1]	800	3,674	3.1	4,846.1	4,846.1	4,846.3	0.2
AI	25,658[1]	875	3,190	3.8	4,846.9	4,846.9	4,847.4	0.5
AJ	26,823[1]	790	3,512	3.4	4,847.8	4,847.8	4,848.7	0.8
AK	28,383[1]	460	1,872	6.5	4,849.8	4,849.8	4,850.7	0.9
AL	29,393[1]	666	4,167	3.6	4,854.7	4,854.7	4,855.0	0.3
AM	29,563[1]	855	3,465	4.4	4,854.7	4,854.7	4,855.1	0.4
AN	30,593[1]	1,599	6,043	2.8	4,856.6	4,856.6	4,856.7	0.1
AO	31,003[1]	900	3,876	4.4	4,857.0	4,857.0	4,857.0	0.0
AP	32,193[1]	900	4,550	3.7	4,858.5	4,858.5	4,859.2	0.7
AQ	192,877[2]	900	3,801	4.6	4,859.2	4,859.2	4,859.9	0.7
AR	194,937[2]	761	4,319	4.0	4,864.9	4,864.9	4,865.8	0.9

[1]Feet above Larimer-Weld County Line Road
[2]Feet above mouth

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (**FEET**)	SECTION AREA (**SQ. FEET**)	MEAN VELOCITY (**FEET/ SEC**)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AS	196,377	1,124	6,105	2.9	4,867.0	4,867.0	4,867.9	0.9
AT	197,517	1,075	3,552	4.9	4,868.4	4,868.4	4,868.9	0.5
AU	199,407	680	3,392	4.4	4,873.3	4,873.3	4,874.0	0.7
AV	200,017	1,150	6,525	2.3	4,874.4	4,874.4	4,875.3	0.9
AW	200,797	890	3,246	4.7	4,875.1	4,875.1	4,875.9	0.8
AX	201,202	700	2,920	5.3	4,875.9	4,875.9	4,876.7	0.8
AY	202,347	579	4,386	3.5	4,878.1	4,878.1	4,878.6	0.5
AZ	202,877	712	4,877	3.2	4,878.4	4,878.4	4,878.9	0.5
BA	203,557	865	5,889	2.6	4,878.8	4,878.8	4,879.3	0.5
BB	205,242	600	1,800	6.7	4,887.6	4,887.6	4,887.6	0.0
BC	205,507	807	3,408	3.5	4,889.4	4,889.4	4,889.4	0.0
BD	206,177	1,378	3,968	3.1	4,890.9	4,890.9	4,890.9	0.0
BE	206,657	1,070	2,571	4.8	4,891.6	4,891.6	4,891.6	0.0
BF	207,232	1,015	3,996	3.1	4,893.4	4,893.4	4,893.4	0.0
BG	207,607	1,026	4,243	2.9	4,893.8	4,893.8	4,893.8	0.0
BH	207,807	1,075	2,551	4.9	4,895.2	4,895.2	4,895.2	0.0
BI	208,567	811	2,171	5.8	4,900.0	4,900.0	4,900.0	0.0
BJ	209,210	190	1,476	8.1	4,901.8	4,901.8	4,901.8	0.0
BK	209,470	249	1,888	6.4	4,902.8	4,902.8	4,902.8	0.0
BL	211,250	306	1,606	8.2	4,906.7	4,906.7	4,906.7	0.0
BM	212,317	270	1,487	9.1	4,910.6	4,910.6	4,910.6	0.0
BN	213,847	322	2,135	7.8	4,915.1	4,915.1	4,915.1	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CACHE LA POUDRE RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (**FEET**)	SECTION AREA (**SQ. FEET**)	MEAN VELOCITY (**FEET/ SEC**)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BO	215,208	230	1,445	9.2	4,919.4	4,919.4	4,919.4	0.0
BP	217,200	521	1,674	7.9	4,924.8	4,924.8	4,924.8	0.0
BQ	218,017	888	2,160	6.2	4,927.5	4,927.5	4,927.9	0.4
BR	219,777	589	2,455	5.4	4,930.9	4,930.9	4,931.3	0.4
BS	220,627	435	3,132	4.2	4,933.3	4,933.3	4,933.9	0.6
BT	221,637	201	1,412	9.4	4,934.9	4,934.9	4,935.4	0.5
BU	222,452	315	2,745	4.8	4,937.4	4,937.4	4,937.7	0.3
BV	223,617	520	2,053	6.5	4,939.7	4,939.7	4,939.9	0.2
BW	224,597	584	2,204	6.0	4,942.9	4,942.9	4,943.7	0.8
BX	226,167	300	2,009	6.6	4,946.5	4,946.5	4,947.0	0.5
BY	227,397	136	1,000	13.3	4,949.8	4,949.8	4,949.9	0.1
BZ	228,117	172	1,492	9.2	4,954.7	4,954.7	4,954.9	0.2
CA	228,687	200	2,018	6.8	4,956.6	4,956.6	4,956.8	0.2
CB	229,322	260	1,664	8.2	4,957.5	4,957.5	4,957.5	0.0
CC	230,193	282	1,458	9.4	4,961.5	4,961.5	4,961.6	0.1
CD	230,467	505	1,591	8.6	4,965.6	4,965.6	4,965.7	0.1
CE	230,897	715	3,783	3.6	4,968.0	4,968.0	4,968.9	0.9
CF	231,022	730	4,281	3.2	4,968.3	4,968.3	4,969.3	1.0
CG	232,227	535	1,800	7.6	4,968.9	4,968.9	4,969.4	0.5
CH	233,367	690	3,284	4.2	4,972.8	4,972.8	4,973.7	0.9
CI	234,557	850	2,300	6.0	4,976.3	4,976.3	4,976.4	0.1
CJ	235,947	196	1,435	9.7	4,981.3	4,981.3	4,981.8	0.5

[1]Feet above mouth

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (**FEET**)	SECTION AREA (**SQ. FEET**)	MEAN VELOCITY (**FEET/ SEC**)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CK	237,158	192	1,461	9.5	4,988.4	4,988.4	4,988.6	0.2
CL	237,485	550	1,637	8.5	4,989.8	4,989.8	4,990.1	0.3
CM	238,183	1,363	7,148	1.9	4,994.7	4,994.7	4,994.8	0.1
CN	238,974	736	3,039	4.6	4,994.7	4,994.6	4,994.9	0.3
CO	240,553	292	2,387	5.9	5,002.7	5,002.7	5,002.7	0.0
CP	241,276	108	1,263	7.7	5,004.8[2] 5,004.8[3]	5,004.8	5,004.8	0.0
CQ	242,255	1,153	4,349	3.2	5,007.9[2] 5,010.1[3]	5,007.9	5,007.9	0.0
CR	242,685	609	2,616	5.4	5,008.5[2] 5,014.9[3]	5,008.5	5,008.5	0.0
CS	243,225	286	1,388	10.2	5,009.1[2] 5,016.6[3]	5,009.1	5,009.1	0.0
CT	244,123	845	4,582	3.1	5,017.7[2] 5,017.0[3]	5,017.7	5,017.7	0.0
CU	244,143	745	4,276	3.3	5,017.7[2] 5,020.7[3]	5,017.7	5,017.7	0.0
CV	244,551	713	2,736	5.2	5,020.1[2] 5,021.6[3]	5,020.1	5,020.5	0.4
CW	246,128	1,065	5,962	2.4	5,022.7[2] 5,025.2[3]	5,022.7	5,023.0	0.3

[1]Feet above mouth
[2]Levees Failed
[3]Levees Intact

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CACHE LA POUDRE RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CX	247,787	242	1,240	11.5	5,027.1[2] 5,027.2[3]	5,027.1	5,027.3	0.2
CY	248,897	185	1,265	11.3	5,033.2	5,033.2	5,033.2	0.0
CZ	249,797	174	1,308	10.9	5,038.4	5,038.4	5,038.4	0.0
DA	251,777	258	1,717	8.4	5,047.7	5,047.7	5,047.7	0.0
DB	252,327	212	1,235	11.9	5,050.5	5,050.5	5,050.5	0.0
DC	253,541	124	1,042	13.8	5,057.6	5,057.6	5,057.6	0.0
DD	254,560	277	1,581	9.1	5,062.4	5,062.4	5,062.4	0.0
DE	255,598	270	1,767	8.2	5,069.1	5,069.1	5,069.3	0.2
DF	256,927	809	2,923	4.9	5,074.3	5,074.3	5,074.5	0.2
DG	257,969	161	2,028	14.2	5,080.4	5,080.4	5,080.4	0.0
DH	259,082	570	4,303	4.6	5,088.6	5,088.6	5,088.6	0.0
DI	260,703	1,687	4,796	3.1	5,093.0	5,093.0	5,093.5	0.5
DJ	261,610	985	3,595	3.7	5,098.0	5,098.0	5,098.4	0.4
DK	262,380	1,150	3,752	3.9	5,100.6	5,100.6	5,101.0	0.4
DL	263,459	351	1,506	10.4	5,104.7	5,104.7	5,104.7	0.0
DM	263,564	386	3,633	4.8	5,110.4	5,110.4	5,110.4	0.0
DN	263,971	328	1,881	7.8	5,110.9	5,110.9	5,111.0	0.1
DO	265,046	332	2,197	6.7	5,118.0	5,118.0	5,118.1	0.1
DP	265,297	259	1,719	8.6	5,118.9	5,118.9	5,119.0	0.1

[1]Feet above mouth
[2]Levees Failed
[3]Levees Intact

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CACHE LA POUDRE RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	445	432	1,506	2.6	4,883.0	4,883.0	4,883.0	0.0
B	810	377	1,405	2.8	4,883.1	4,883.1	4,883.4	0.3
C	1,210	445	1,995	2.0	4,883.2	4,883.2	4,883.7	0.5
D	1,785	439[2]	1,490	2.7	4,883.5	4,883.5	4,884.0	0.5
E	2,145	357	1,752	2.3	4,884.0	4,884.0	4,884.5	0.5
F	2,645	163	732	5.4	4,885.2	4,885.2	4,885.4	0.2
G	2,910	183	896	4.4	4,886.7	4,886.7	4,886.8	0.1
H	3,255	150	553	7.2	4,890.9	4,890.9	4,891.7	0.8
I	3,350	216	1,547	2.6	4,892.4	4,892.4	4,892.7	0.3
J	4,330	428	926	4.3	4,893.1	4,893.1	4,893.6	0.5
K	5,060	2,030	2,135	1.9	4,895.2	4,895.2	4,895.4	0.2
L	6,780	1,269	1,325	2.0	4,896.8	4,896.8	4,897.0	0.2
M	6,955	476	470	5.6	4,908.0	4,908.0	4,908.1	0.1
N	7,780	990	2,290	1.2	4,909.3	4,909.3	4,909.4	0.1
O	9,027	261	997	2.7	4,909.6	4,909.6	4,909.7	0.1

[1]Feet above confluence with Cache La Poudre River along profile baseline
[2]Width includes areas in Zone X

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CACHE LA POUDRE RIVER LPATH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	14,428	3,600	11,992	1.3	4,820.7	4,820.7	4,821.4	0.7
B	18,988	901	2,871	1.6	4,826.7	4,826.7	4,827.6	0.9
C	23,278	1,004	4,622	1.0	4,837.1	4,837.1	4,838.0	0.9
D	24,268	1,000	3,848	1.2	4,837.3	4,837.3	4,838.2	0.9
E	24,993	900	890	5.3	4,841.1	4,841.1	4,841.3	0.2
F	25,893	1,000	3,163	1.5	4,842.2	4,842.2	4,843.2	1.0
G	27,193	700	1,154	4.1	4,843.9	4,843.9	4,844.7	0.8
H	27,903	600	726	6.5	4,849.9	4,849.9	4,850.4	0.5
I	29,603	796	3,402	1.4	4,850.3	4,850.3	4,851.3	1.0
J	30,103	451	692	6.8	4,853.3	4,853.3	4,853.6	0.3

[1]Feet above Larimer-Weld County Line Road

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CACHE LA POUDRE RIVER – INTERSTATE HIGHWAY 25 DIVIDED FLOW

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,600	442	591	0.8	4,895.9	4,895.9	4,896.4	0.5
B	3,065	485	159	3.1	4,897.3	4,897.3	4,897.3	0.0
C	3,265	293	339	1.5	4,898.3	4,898.3	4,898.3	0.0

[1]Feet above confluence with Cache La Poudre River Split RPATH

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CACHE LA POUDRE RIVER SPLIT - LPATH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	340	357	5.7	4,884.0	4,884.0	4,884.1	0.1
B	1,455	295	702	2.9	4,885.4	4,885.4	4,885.8	0.4
C	2,085	331	458	4.4	4,893.8	4,893.8	4,894.2	0.4
D	2,450	251	483	3.2	4,895.6	4,895.6	4,896.0	0.4
E	2,920	256	414	3.7	4,897.4	4,897.4	4,897.4	0.0
F	3,815	489	610	2.5	4,899.7	4,899.7	4,899.7	0.0

[1]Feet above Gravel Pit Access Road

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CACHE LA POUDRE RIVER SPLIT - RPATH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	370	165	682	13.8	5,606.2	5,606.2	5,606.2	0.0
B	580	125	661	14.2	5,608.9	5,608.9	5,608.9	0.0
C	780	100	885	10.6	5,612.1	5,612.1	5,612.1	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: CEDAR CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,020	73	238	4.1	4,922.2	4,922.2	4,922.2	0.0
B	1,350	65	135	1.5	4,923.3	4,923.3	4,923.5	0.2
C	1,600	12	62	4.7	4,923.6	4,923.6	4,923.8	0.2
D	2,750	426	1,102	2.0	4,931.0	4,931.0	4,931.2	0.2
E	3,200	256	678	3.3	4,932.1	4,932.1	4,932.1	0.0
F	4,090	900	895	2.5	4,936.0	4,936.0	4,936.0	0.0
G	4,399	876	935	2.4	4,938.0	4,938.0	4,938.0	0.0
H	5,092	912	1,123	2.0	4,939.4	4,939.4	4,939.4	0.0
I	5,690	213	2,203	4.3	4,943.5	4,943.5	4,943.5	0.0
J	5,745	850	3,143	0.8	4,946.1	4,946.1	4,946.6	0.5
K	6,350	360	1,042	2.4	4,946.2	4,946.2	4,946.7	0.5
L	8,114	416	693	3.0	4,954.1	4,954.1	4,954.5	0.4
M	8,726	406	636	3.3	4,956.3	4,956.3	4,956.6	0.3
N	8,844	480	995	2.1	4,960.1	4,960.1	4,960.6	0.5
O	10,344	100	268	7.8	4,963.5	4,963.5	4,963.5	0.0
P	11,144	225	339	6.1	4,970.3	4,970.3	4,970.5	0.2
Q	11,384	130	314	6.6	4,973.4	4,973.4	4,973.4	0.0
R	11,456	220	1,389	1.5	4,976.4	4,976.4	4,976.9	0.5
S	11,744	520	2,116	1.0	4,976.5	4,976.5	4,977.0	0.5

[1]Feet above confluence with Lake Canal

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: COOPER SLOUGH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	758	671	3.4	4,917.1	4,917.1	4,917.1	0.0
B	585	694	865	4.0	4,919.5	4,919.5	4,919.5	0.0
C	1,885	376	399	5.8	4,924.0	4,924.0	4,924.0	0.0
D	2,575	594	465	5.0	4,929.1	4,929.1	4,929.1	0.0
E	4,145	176	290	1.0	4,931.1	4,931.1	4,931.1	0.0
F	4,631	230	135	2.2	4,931.6	4,931.6	4,931.6	0.0
G	4,929	47	51	5.9	4,933.6	4,933.6	4,933.6	0.0
H	5,120	178	122	2.5	4,936.2	4,936.2	4,936.2	0.0

[1]Feet above confluence with Lake Canal

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: COOPER SLOUGH OVERFLOW

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	90	78	156	8.0	7,173.0	7,173.0	7,173.0	0.0
B	145	75	174	7.2	7,179.2	7,179.2	7,179.2	0.0
C	190	80	184	6.8	7,183.0	7,183.0	7,183.0	0.0
D	340	34	118	10.6	7,190.9	7,190.9	7,190.9	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DARK GULCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	50	70	160	7.5	7,337.6	7,337.6	7,337.6	0.0
B	540	110	179	6.7	7,366.9	7,366.9	7,366.9	0.0
C	650	120	183	11.5	7,374.1	7,374.1	7,374.1	0.0
D	1,145	80	156	7.7	7,400.0	7,400.0	7,400.0	0.0

[1]Feet above confluence with West Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DEVILS GULCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	180	140	334	5.7	5,553.9	5,553.9	5,553.9	0.0
B	260	55	201	9.5	5,555.2	5,555.2	5,555.2	0.0
C	310	38	274	6.9	5,556.8	5,556.8	5,556.8	0.0
D	380	50	285	6.7	5,557.4	5,557.4	5,557.4	0.0
E	490	50	189	10.1	5,559.5	5,559.5	5,559.5	0.0
F	800	49	174	10.9	5,567.2	5,567.2	5,567.2	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DICKSON GULCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,253	224	1,054	9.6	5,048.8	5,048.8	5,048.9	0.0
B	1,412	142	915	11.0	5,052.6	5,052.6	5,052.6	0.0
C	1,486	125	709	14.2	5,054.8	5,054.8	5,054.8	0.0
D	1,574	142	1,747	5.8	5,064.1	5,064.1	5,064.1	0.0
E	1,664	112	1,515	6.7	5,064.0	5,064.0	5,064.1	0.1
F	2,170	390	3,283	3.1	5,065.0	5,065.0	5,065.0	0.0
G	2,405	420	3,872	2.6	5,065.0	5,065.0	5,065.1	0.1

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DRY CREEK AT BIG THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	40	727	457.1	2.4	4,993.0	4,993.0	4,993.5	0.5
B	270	342	682.5	1.6	4,993.4	4,993.4	4,993.8	0.4
C	744	340	500.8	2.2	4,994.1	4,994.1	4,994.4	0.3
D	1,148	155	270.3	4.1	4,995.6	4,995.6	4,995.8	0.2
E	1,392	103	272.6	4.0	4,996.2	4,996.2	4,996.7	0.5
F	1,713	80	214.6	5.1	4,997.9	4,997.9	4,998.1	0.2
G	1,964	79	285.5	3.9	4,998.9	4,998.9	4,999.3	0.4
H	2,318	135	319.8	3.4	5,000.0	5,000.0	5,000.2	0.2
I	2,631	64	277.0	4.0	5,000.6	5,000.6	5,000.7	0.1
J	2,973	35	168.2	6.5	5,001.3	5,001.3	5,001.5	0.2
K	3,502	65	258.4	4.3	5,002.9	5,002.9	5,003.4	0.5
L	3,827	60	226.2	4.9	5,003.6	5,003.6	5,004.0	0.4
M	4,339	72	296.0	3.7	5,004.8	5,004.8	5,005.0	0.2
N	4,475	72	282.5	3.9	5,005.0	5,005.0	5,005.2	0.2
O	4,581	72	258.5	4.3	5,005.1	5,005.1	5,005.3	0.2
P	4,673	104	272.9	4.0	5,005.4	5,005.4	5,005.5	0.1
Q	4,766	125	347.7	3.2	5,005.7	5,005.7	5,005.8	0.1
R	4,913	242	940.0	1.2	5,010.0	5,010.0	5,010.4	0.4
S	5,365	258	767.8	1.7	5,010.1	5,010.1	5,010.5	0.4
T	5,578	102	533.7	2.3	5,010.2	5,010.2	5,010.6	0.4

[1]Feet above confluence with Larimer and Weld Canal

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DRY CREEK (NORTH OF CANAL)

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
U	5,642	154	630.8	2.2	5,010.2	5,010.2	5,010.6	0.4
V	5,843	94	306.8	3.6	5,010.5	5,010.5	5,010.8	0.3
W	5,943	62	372.6	3.0	5,010.6	5,010.6	5,010.9	0.3
X	6,097	163	722.0	1.5	5,010.7	5,010.7	5,011.1	0.4
Y	6,305	68	341.3	3.2	5,010.7	5,010.7	5,011.1	0.4
Z	6,646	93	409.9	2.7	5,011.0	5,011.0	5,011.4	0.4
AA	6,730	49	238.4	4.6	5,011.0	5,011.0	5,011.4	0.4
AB	7,002	54	256.3	4.3	5,011.6	5,011.6	5,011.9	0.3
AC	7,128	75	330.2	3.3	5,011.9	5,011.9	5,012.1	0.2
AD	7,765	64	259.5	4.2	5,012.7	5,012.7	5,012.9	0.2
AE	8,453	85	331.9	3.3	5,013.7	5,013.7	5,013.8	0.1
AF	9,011	83	177.6	6.2	5,015.1	5,015.1	5,015.1	0.0
AG	9,222	63	187.8	5.9	5,016.1	5,016.1	5,016.1	0.0

[1]Feet above confluence with the Larimer and Weld Canal

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	551	114	178.3	4.9	4,916.0	4,913.2[2]	4,913.3[2]	0.1
B	941	100	217.7	4.0	4,916.0	4,914.9[2]	4,914.9[2]	0.0
C	1,114	81	191.0	4.6	4,916.0	4,915.4[2]	4,915.4[2]	0.0
D	1,344	95	180.4	4.9	4,916.8	4,916.8	4,916.8	0.0
E	1,490	105	225.4	3.9	4,917.5	4,917.5	4,917.5	0.0
F	1,589	136	250.8	3.4	4,917.7	4,917.7	4,917.7	0.0
G	1,717	95	167.2	5.1	4,918.0	4,918.0	4,918.0	0.0
H	2,051	115	215.7	3.9	4,919.5	4,919.5	4,919.5	0.0
I	2,491	72	190.2	4.5	4,921.1	4,921.1	4,921.1	0.0
J	3,763	180	310.0	2.4	4,925.4	4,925.4	4,925.8	0.4
K	4,232	182	307.7	2.5	4,926.8	4,926.8	4,927.3	0.5
L	4,294	178	310.7	2.4	4,927.0	4,927.0	4,927.5	0.5
M	4,527	176	269.8	2.8	4,928.0	4,928.0	4,928.3	0.3
N	4,612	174	290.9	2.6	4,928.5	4,928.5	4,928.7	0.2
O	4,744	174	274.2	2.7	4,929.1	4,929.1	4,929.2	0.1
P	4,917	181	235.6	3.1	4,929.9	4,929.9	4,930.0	0.1
Q	5,937	400	443.1	1.7	4,934.5	4,934.5	4,935.0	0.5
R	7,205	403	651.3	1.4	4,937.4	4,937.4	4,937.8	0.4
S	7,495	397	528.7	1.8	4,938.0	4,938.0	4,938.4	0.4

[1]Feet above confluence with Cache La Poudre River
[2]Elevations computed without consideration of backwater from Cache La Poudre River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DRY CREEK (SOUTH OF CANAL)

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
T	7,878	388	460.3	2.0	4,938.5	4,938.5	4,938.9	0.4
U	8,525	1007	697.3	1.4	4,939.4	4,939.4	4,939.9	0.5
V	8,841	905	661.1	1.4	4,940.6	4,940.6	4,941.0	0.4
W	9,635	279	251.9	5.6	4,942.8	4,942.8	4,942.9	0.1
X	9,787	249	103.0	9.1	4,942.7	4,942.7	4,942.6	0.0
Y	10,456	47	110.8	4.4	4,945.7	4,945.7	4,945.7	0.0
Z	10,613	84	155.0	3.1	4,946.4	4,946.4	4,946.4	0.0
AA	10,851	69	148.1	3.3	4,947.1	4,947.1	4,947.1	0.0
AB	10,962	54	119.6	4.1	4,947.4	4,947.4	4,947.4	0.0
AC	11,540	71	130.9	3.7	4,949.8	4,949.8	4,949.8	0.0
AD	11,629	73	241.4	2.0	4,950.1	4,950.1	4,950.1	0.0
AE	11,801	337	132.9	3.7	4,951.7	4,951.7	4,951.8	0.1
AF	12,237	227	371.1	1.0	4,952.8	4,952.8	4,953.1	0.3
AG	12,780	50	119.4	3.0	4,953.9	4,953.9	4,954.2	0.3
AH	13,911	164	169.7	1.5	4,956.2	4,956.2	4,956.2	0.0
AI	14,491	164	76.0	3.4	4,960.3	4,960.3	4,960.3	0.0
AJ	14,732	378	230.6	1.1	4,960.6	4,960.6	4,961.0	0.4
AK	14,948	145	119.8	2.1	4,961.1	4,961.1	4,961.4	0.3
AL	15,191	57	76.8	3.3	4,962.0	4,962.0	4,962.1	0.1
AM	15,537	51	62.8	4.1	4,964.1	4,964.1	4,964.1	0.0

[1]Feet above confluence with Cache La Poudre River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: DRY CREEK (SOUTH OF CANAL)

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A								
B	530	31	71.5	1.2	4,944.8	4,944.8	4,944.8	0.0
C	864	43	81.1	2.8	4,945.6	4,945.6	4,945.6	0.0
D	1,169	29	94.2	2.9	4,946.9	4,946.9	4,946.9	0.0
E	1,640	50	129.6	1.6	4,947.9	4,947.9	4,948.0	0.1
F	1,877	35	89.6	2.3	4,948.4	4,948.4	4,948.4	0.0
G	2,149	36	108.6	1.9	4,949.0	4,949.0	4,949.0	0.0
H	2,352	33	100.6	2.1	4,949.3	4,949.3	4,949.3	0.0
I	2,663	50	110.2	3.5	4,950.7	4,950.7	4,950.7	0.0
J	2,784	41	115.4	3.1	4,953.4	4,953.4	4,953.4	0.0
K	2,896	55	111.9	3.2	4,953.6	4,953.6	4,953.6	0.0
L	3,209	49	63.1	5.7	4,954.7	4,954.7	4,954.7	0.0
M	3,504	49	84.0	4.3	4,956.3	4,956.3	4,956.3	0.0
N	3,900	42	83.7	4.3	4,957.5	4,957.5	4,957.5	0.0
O	4,196	81	115.2	2.9	4,958.5	4,958.5	4,958.5	0.0
P	4,411	56	96.0	3.4	4,958.9	4,958.9	4,958.9	0.0
Q	4,611	55	96.0	3.4	4,959.5	4,959.5	4,959.5	0.0
R	4,812	58	109.0	3.0	4,960.0	4,960.0	4,960.0	0.0
S	5,007	57	100.9	3.3	4,960.4	4,960.4	4,960.4	0.0
T	5,311	49	80.9	4.1	4,961.1	4,961.1	4,961.1	0.0

[1]Feet above confluence with Dry Creek (South of Canal)

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: EAST VINE DIVERSION

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
U	5,489	48	66.1	5.0	4,962.2	4,962.2	4,962.2	0.0
V	5,582	48	70.3	4.7	4,963.9	4,963.9	4,963.9	0.0
W	5,735	48	80.9	4.1	4,966.2	4,966.2	4,966.2	0.0
X	5,905	43	65.5	5.0	4,968.9	4,968.9	4,968.9	0.0
Y	6,027	42	69.9	4.7	4,972.2	4,972.2	4,972.2	0.0
Z	6,116	72	63.4	5.2	4,982.9	4,982.9	4,983.4	0.5

[1]Feet above confluence with Dry Creek (South of Canal)

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: EAST VINE DIVERSION

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	323	792	2,699.6	0.4	4,944.6	4,944.6	4,945.1	0.5
B	559	792	2,677.1	0.4	4,944.7	4,944.7	4,945.1	0.4
C	881	785	1,874.8	0.1	4,944.7	4,944.7	4,945.1	0.4
D	1,174	550	987.9	0.2	4,944.7	4,944.7	4,945.1	0.4
E	1,368	500	911.4	0.2	4,944.7	4,944.7	4,945.2	0.5
F	1,434	410	690.9	0.3	4,944.7	4,944.7	4,945.2	0.5
G	1,528	296	421.5	0.4	4,944.7	4,944.7	4,945.2	0.5
H	1,748	422	366.3	0.5	4,944.7	4,944.7	4,945.2	0.5

[1]Feet above confluence with Dry Creek (South of Canal)

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: EAST VINE DIVERSION – LEFT OVERBANK FLOWPATH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	36	18	110	6.2	7,526.3	7,526.3	7,527.3	1.0
B	464	22	105	6.5	7,530.2	7,530.2	7,530.2	0.0
C	959	16	75	9.0	7,537.7	7,537.7	7,537.8	0.1
D	1,505	17	69	9.9	7,545.9	7,545.9	7,545.8	0.0
E	1,920	22	92	7.4	7,552.6	7,552.6	7,553.4	0.8
F	2,475	25	88	7.8	7,562.9	7,562.9	7,563.0	0.1
G	3,038	53	178	3.8	7,567.8	7,567.8	7,568.7	0.9
H	3,504	27	136	5.0	7,574.0	7,574.0	7,575.0	1.0
I	3,765	33	102	6.7	7,577.3	7,577.3	7,577.3	0.0
J	3,923	33	78	8.7	7,583.3	7,583.3	7,583.3	0.0
K	4,641	30	143	4.8	7,589.9	7,589.9	7,590.9	1.0
L	5,219	31	99	6.9	7,598.5	7,598.5	7,598.5	0.0
M	5,875	32	104	6.6	7,603.9	7,603.9	7,604.4	0.5
N	6,498	39	82	8.3	7,620.5	7,620.5	7,620.5	0.0
O	7,337	32	87	7.8	7,634.6	7,634.6	7,634.9	0.3
P	7,929	23	68	10.0	7,643.8	7,643.8	7,643.8	0.0
Q	8,275	31	76	8.9	7,653.3	7,653.3	7,653.4	0.1
R	8,939	29	100	6.8	7,663.3	7,663.3	7,663.5	0.2
S	9,607	25	92	7.4	7,677.9	7,677.9	7,677.9	0.0
T	10,465	23	95	7.2	7,696.9	7,696.9	7,696.9	0.0
U	11,029	20	90	7.6	7,711.6	7,711.6	7,711.6	0.0
V	11,509	21	67	10.2	7,723.8	7,723.8	7,723.8	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: FALL RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
W	11,870	22	68	10.0	7,730.0	7,730.0	7,730.0	0.0
X	12,285	24	108	6.3	7,736.2	7,736.2	7,736.2	0.0
Y	12,782	27	86	7.9	7,748.7	7,748.7	7,748.7	0.0
Z	13,588	17	62	10.9	7,761.6	7,761.6	7,761.6	0.0
AA	14,738	35	79	8.6	7,787.8	7,787.8	7,787.8	0.0
AB	15,627	28	101	6.8	7,805.9	7,805.9	7,805.9	0.0
AC	15,785	42	84	8.1	7,816.3	7,816.3	7,816.3	0.0
AD	16,498	29	101	6.7	7,823.1	7,823.1	7,823.8	0.7
AE	17,554	39	92	7.4	7,842.1	7,842.1	7,842.2	0.1
AF	18,698	17	62	10.9	7,869.4	7,869.4	7,869.4	0.0
AG	19,757	23	70	9.7	7,891.4	7,891.4	7,891.4	0.0
AH	20,380	27	73	9.3	7,908.2	7,908.2	7,908.2	0.0
AI	21,158	34	81	8.4	7,925.3	7,925.3	7,925.3	0.0
AJ	21,508	22	73	9.3	7,930.6	7,930.6	7,930.8	0.2
AK	22,028	27	73	9.4	7,944.5	7,944.5	7,944.5	0.0
AL	22,452	30	75	9.0	7,954.3	7,954.3	7,954.3	0.0
AM	22,888	28	73	9.3	7,966.1	7,966.1	7,966.1	0.0
AN	23,635	23	69	9.9	7,983.5	7,983.5	7,983.6	0.1
AO	24,205	20	67	10.2	8,001.4	8,001.4	8,001.6	0.2
AP	24,612	22	68	10.0	8,011.8	8,011.8	8,011.8	0.0
AQ	25,223	38	82	8.3	8,036.3	8,036.3	8,036.6	0.3
AR	25,950	24	70	9.7	8,064.4	8,064.4	8,064.5	0.1
AS	26,580	24	87	7.9	8,097.4	8,097.4	8,097.4	0.0

[1]Feet above confluence with Big Thompson River

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	45	4	21	7.5	7,564.2	7,564.2	7,564.2	0.0
B	176	4	18	8.4	7,566.6	7,566.6	7,567.1	0.5
C	244	22	60	2.6	7,567.6	7,567.6	7,567.9	0.3

[1]Feet above confluence with Fall River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: FALL RIVER OVERFLOW

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	580	20	50	8.0	7,480.1	7,480.1	7,480.5	0.4
B	970	25	75	5.3	7,483.9	7,483.9	7,484.4	0.5
C	1,150	18	47	8.5	7,486.9	7,486.9	7,486.9	0.0
D	1,450	20	47	8.5	7,492.2	7,492.2	7,492.2	0.0
E	1,540	35	364	1.1	7,502.7	7,502.7	7,503.7	1.0
F	1,780	40	204	2.0	7,502.8	7,502.8	7,503.8	1.0
G	2,365	27	51	7.8	7,508.9	7,508.9	7,508.9	0.0
H	2,955	20	54	7.4	7,518.4	7,518.4	7,518.8	0.4
I	3,165	23	49	8.2	7,523.8	7,523.8	7,523.8	0.0
J	3,205	29	58	6.9	7,525.8	7,525.8	7,525.8	0.0
K	3,510	30	83	4.8	7,528.2	7,528.2	7,528.3	0.1
L	4,145	37	65	6.2	7,539.0	7,539.0	7,539.3	0.3
M	4,610	33	66	6.1	7,545.1	7,545.1	7,545.9	0.8
N	5,130	20	57	7.1	7,549.3	7,549.3	7,550.3	1.0
O	5,800	20	49	8.2	7,556.1	7,556.1	7,556.4	0.3
P	6,435	20	46	8.7	7,566.0	7,566.0	7,566.1	0.1
Q	7,140	32	68	5.9	7,573.9	7,573.9	7,574.1	0.2
R	7,210	32	53	7.5	7,576.8	7,576.8	7,576.8	0.0
S	7,250	25	202	2.0	7,581.4	7,581.4	7,582.4	1.0
T	7,405	95	348	1.1	7,581.4	7,581.4	7,581.9	0.5
U	8,415	75	72	5.5	7,592.2	7,592.2	7,592.4	0.2
V	8,600	20	48	8.3	7,594.2	7,594.2	7,594.6	0.4

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: FISH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
W	8,650	45	196	2.0	7,597.9	7,597.9	7,597.9	0.0
X	8,825	55	187	2.1	7,597.9	7,597.9	7,597.9	0.0
Y	9,530	15	66	6.0	7,604.9	7,604.9	7,604.9	0.0
Z	10,215	40	71	5.6	7,617.6	7,617.6	7,618.0	0.4
AA	10,430	20	46	8.6	7,620.6	7,620.6	7,620.9	0.3
AB	10,470	110	308	1.3	7,624.0	7,624.0	7,624.3	0.3
AC	10,680	20	48	8.3	7,625.2	7,625.2	7,625.7	0.5
AD	11,030	30	43	7.6	7,632.6	7,632.6	7,632.8	0.2

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: FISH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	160	150	312	8.8	7,256.7	7,256.7	7,256.7	0.0
B	530	90	275	10.0	7,268.3	7,268.3	7,268.3	0.0
C	915	80	252	10.9	7,280.7	7,280.7	7,280.7	0.0
D	1,330	50	256	10.7	7,292.1	7,292.1	7,292.1	0.0
E	1,770	80	319	8.6	7,307.2	7,307.2	7,307.2	0.0
F	2,280	70	275	10.0	7,319.3	7,319.3	7,319.3	0.0
G	2,760	70	287	9.6	7,331.9	7,331.9	7,331.9	0.0
H	3,260	80	289	9.5	7,345.4	7,345.4	7,345.4	0.0
I	3,775	85	301	9.1	7,363.6	7,363.6	7,363.6	0.0
J	4,260	100	328	7.3	7,376.3	7,376.3	7,376.3	0.0
K	4,750	90	307	9.0	7,391.4	7,391.4	7,391.4	0.0
L	5,615	50	232	11.9	7,421.4	7,421.4	7,421.4	0.0
M	5,980	140	303	9.1	7,434.7	7,434.7	7,434.7	0.0
N	6,650	100	259	10.6	7,460.9	7,460.9	7,460.9	0.0
O	7,010	105	295	9.3	7,472.5	7,472.5	7,472.5	0.0
P	7,950	78	261	10.3	7,502.2	7,502.2	7,502.2	0.0

[1]Feet above confluence with North Fork Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: FOX CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	160	67	354	4.1	5,047.0	5,047.0	5,047.0	0.0
B	442	70	637	2.3	5,052.4	5,052.4	5,052.4	0.0
C	620	119	200	7.3	5,055.9	5,055.9	5,055.9	0.0
D	901	193	468	3.4	5,060.0	5,060.0	5,060.0	0.0
E	1,423	499	1,422	2.9	5,063.7	5,063.7	5,063.7	0.0
F	1,740	562	2,266	2.5	5,065.0	5,065.0	5,065.0	0.0
G	2,216	744	2,097	3.1	5,066.6	5,066.6	5,066.6	0.0
H	2,681	892	2,838	2.3	5,068.2	5,068.2	5,068.2	0.0
I	3,141	804	2,051	3.1	5,069.7	5,069.7	5,069.7	0.0
J	3,875	925	1,712	3.8	5,073.3	5,073.3	5,073.3	0.0
K	4,284	834	2,144	2.0	5,076.4	5,076.4	5,076.4	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: GLADE ROAD SPLIT

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	25,281	60	319.5	4.5	4,983.6	4,983.6	4,983.6	0.0
B	26,001	68	361.3	3.9	4,984.3	4,984.3	4,984.3	0.0
C	26,801	71	414.4	3.3	4,985.1	4,985.1	4,985.1	0.0
D	28,051	73	469.5	2.9	4,985.8	4,985.8	4,985.8	0.0
E	29,501	75	516.5	2.6	4,986.3	4,986.3	4,986.3	0.0
F	29,764	47	270.6	4.9	4,986.3	4,986.3	4,986.3	0.0
G	30,964	77	645.6	2.0	4,987.5	4,987.5	4,987.5	0.0
H	31,024	77	646.5	2.0	4,987.5	4,987.5	4,987.5	0.0
I	31,574	78	656.0	2.0	4,987.6	4,987.6	4,987.6	0.0
J	32,134	76	558.3	2.3	4,987.8	4,987.8	4,987.8	0.0
K	33,264	76	455.1	2.7	4,988.2	4,988.2	4,988.2	0.0
L	34,114	77	483.0	2.6	4,988.6	4,988.6	4,988.6	0.0
M	35,714	50	273.9	4.7	4,990.2	4,990.2	4,990.2	0.0
N	36,769	75	520.7	2.1	4,991.6	4,991.6	4,991.6	0.0
O	37,639	74	450.7	2.4	4,991.8	4,991.8	4,991.8	0.0
P	37,719	74	453.9	2.4	4,991.9	4,991.9	4,991.9	0.0
Q	39,544	57	295.3	3.7	4,992.7	4,992.7	4,992.7	0.0
R	39,644	58	301.9	3.6	4,992.8	4,992.8	4,992.8	0.0

[1]Feet from approximate downstream face of Mulberry Street Bridge

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LARIMER AND WELD CANAL

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A - G[2]								
H	21,852	951	4,311	3.6	4,784.3	4,784.3	4,784.6	0.3
I	26,963	1,380	5,105	3.1	4,793.9	4,793.9	4,794.2	0.3
J	29,675	1,124	4,812	3.3	4,796.6	4,796.6	4,797.1	0.5
K-Q[2]								
R	51,063	331 / 141[3]	2,412	6.5	4,840.8	4,840.8	4,841.1	0.3
S	54,671	360	2,146	7.3	4,848.4	4,848.4	4,848.9	0.5
T	57,640	166	1,446	10.9	4,854.2	4,854.2	4,854.6	0.4
U	59,071	1,152	2,234	7.2	4,863.2	4,863.2	4,863.2	0.0
V	63,612	1,450	4,136	3.9	4,872.7	4,872.7	4,872.9	0.2
W-AC[2]								
AD	90,209	580 / 194[3]	3,386	4.8	4,931.3	4,931.3	4,931.3	0.0
AE	92,820	744	3,364	4.6	4,939.0	4,939.0	4,939.5	0.5
AF	95,543	1,741	3,271	4.7	4,944.0	4,944.0	4,944.0	0.0
AG	96,686	362	2,069	7.4	4,948.3	4,948.3	4,948.5	0.2
AH	99,153	917	2,621	5.9	4,956.2	4,956.2	4,956.2	0.0
AI	100,905	818	4,976	3.1	4,962.9	4,962.9	4,962.9	0.0
AJ	103,789	545	4,119	3.4	4,972.3	4,972.3	4,972.7	0.4
AK	106,196	371	1,700	8.2	4,976.1	4,976.1	4,976.4	0.3
AL	109,018	393	2,357	5.9	4,989.2	4,989.2	4,989.7	0.5
AM	111,360	585	4,545	3.1	5,000.9	5,000.9	5,001.4	0.5
AN	114,974	1,110	4,527	3.1	5,011.6	5,011.6	5,011.7	0.1
AO	116,678	594	3,131	4.5	5,019.8	5,019.8	5,020.2	0.4
AP	117,564	492	2,270	6.2	5,024.0	5,024.0	5,024.5	0.5
AQ	120,191	425	2,278	6.2	5,037.1	5,037.1	5,037.5	0.4

[1]Feet above confluence with Big Thompson River
[2]Located in Weld County FIS
[3]Total floodway width and width within Larimer County

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LITTLE THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AR	123,111	483	1,871	7.5	5,052.1	5,052.1	5,052.1	0.0
AS	124,222	722	3,354	7.3	5,060.0	5,060.0	5,060.0	0.0
AT	126,604	576	2,235	6.3	5,076.6	5,076.6	5,076.7	0.1
AU – AX[2]								
AY	139,591	326 / 207[3]	1,401	9.4	5,166.6	5,166.6	5,166.9	0.3
AZ	140,323	320 / 293[3]	1,323	9.9	5,172.9	5,172.9	5,173.4	0.5
BA – BD[2]								
BE	235,838	27	269	3.1	6,705.9	6,705.9	6,706.4	0.5
BF	236,141	52	131	6.4	6,706.8	6,706.8	6,706.9	0.1
BG	236,572	34	148	5.7	6,716.1	6,716.1	6,716.1	0.0
BH	237,240	27	92	9.1	6,754.0	6,754.0	6,754.0	0.0
BI	237,756	45	103	8.1	6,776.5	6,776.5	6,776.7	0.2
BJ	238,291	27	95	8.8	6,789.9	6,789.9	6,790.3	0.4
BK	238,874	32	93	9.0	6,814.4	6,814.4	6,814.5	0.1
BL	239,227	24	82	10.2	6,824.8	6,824.8	6,824.9	0.1
BM	239,748	25	98	8.6	6,845.2	6,845.2	6,845.5	0.3
BN	240,185	20	76	11.0	6,877.9	6,877.9	6,878.1	0.2
BO	240,593	70	140	6.0	6,915.1	6,915.1	6,915.5	0.4
BP	241,169	18	74	11.3	6,935.8	6,935.8	6,936.0	0.2
BQ	241,794	20	76	11.0	6,957.4	6,957.4	6,957.5	0.1
BR	242,485	20	78	10.7	6,978.5	6,978.5	6,978.6	0.1

[1]Feet above confluence with Big Thompson River
[2]Located in Boulder County FIS
[3]Total floodway width and width within Larimer County

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LITTLE THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BS	243,118	19	76	11.1	6,996.9	6,996.9	6,997.1	0.2
BT	243,914	15	70	12.0	7,025.7	7,025.7	7,025.8	0.1
BU	244,668	44	105	8.0	7,058.6	7,058.6	7,058.6	0.0
BV	245,289	69	111	7.6	7,084.9	7,084.9	7,085.1	0.2
BW	245,839	59	112	7.5	7,106.0	7,106.0	7,106.3	0.3
BX	246,396	37	119	7.1	7,125.9	7,125.9	7,126.1	0.2
BY	246,816	69	116	7.3	7,142.9	7,142.9	7,143.3	0.4
BZ	247,355	24	93	9.1	7,166.3	7,166.3	7,166.7	0.4
CA	247,703	61	160	5.3	7,173.3	7,173.3	7,173.5	0.2
CB	248,849	45	107	7.9	7,205.4	7,205.4	7,205.7	0.3
CC	249,330	94	172	4.9	7,219.6	7,219.6	7,219.6	0.0
CD	249,794	28	112	7.5	7,227.9	7,227.9	7,228.4	0.5
CE	250,385	32	103	8.1	7,244.6	7,244.6	7,245.0	0.4
CF	250,954	30	103	8.1	7,258.0	7,258.0	7,258.3	0.3
CG	251,692	29	112	7.5	7,277.3	7,277.3	7,277.7	0.4
CH	252,505	28	76	8.7	7,305.3	7,305.3	7,305.3	0.0
CI	252,872	27	71	9.2	7,359.4	7,359.4	7,359.4	0.0
CJ	253,409	13	57	11.6	7,393.1	7,393.1	7,393.2	0.1
CK	253,773	47	100	6.6	7,404.9	7,404.9	7,404.9	0.0
CL	254,681	18	69	9.5	7,421.5	7,421.5	7,421.8	0.3
CM	255,121	115	126	5.3	7,434.1	7,434.1	7,434.1	0.0
CN	255,739	17	62	10.7	7,467.8	7,467.8	7,467.8	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LITTLE THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CO	256,353	26	94	7.0	7,485.1	7,485.1	7,485.5	0.4
CP	257,088	129	255	2.6	7,497.9	7,497.9	7,498.3	0.4
CQ	257,369	69	234	3.0	7,505.1	7,505.1	7,505.2	0.1
CR	258,770	29	118	5.6	7,527.6	7,527.6	7,527.8	0.2
CS	259,549	41	97	6.8	7,538.1	7,538.1	7,538.3	0.2
CT	261,110	32	100	6.6	7,560.7	7,560.7	7,560.7	0.0
CU	262,218	30	77	5.4	7,579.2	7,579.2	7,579.3	0.1
CV	263,010	28	54	7.6	7,590.9	7,590.9	7,590.9	0.0
CW	264,033	54	74	5.6	7,609.6	7,609.6	7,610.1	0.5
CX	264,670	12	23	6.6	7,633.3	7,633.3	7,633.6	0.3
CY	265,668	10	22	6.7	7,662.5	7,662.5	7,662.5	0.0
CZ	266,078	7	18	8.5	7,679.0	7,679.0	7,679.2	0.2
DA	267,396	16	23	6.6	7,723.5	7,723.5	7,723.6	0.1
DB	268,574	25	27	5.5	7,765.5	7,765.5	7,765.7	0.2
DC	269,227	16	24	6.3	7,788.9	7,788.9	7,788.9	0.0
DD	270,268	24	36	4.2	7,807.1	7,807.1	7,807.3	0.2
DE	271,334	31	28	5.3	7,840.4	7,840.4	7,840.5	0.1
DF	272,324	28	31	4.8	7,868.3	7,868.3	7,868.4	0.1
DG	273,404	19	24	6.2	7,899.9	7,899.9	7,900.0	0.1
DH	274,208	27	26	5.7	7,933.8	7,933.8	7,933.8	0.0
DI	274,827	37	58	2.6	7,949.2	7,949.2	7,949.2	0.0
DJ	275,541	30	28	5.4	7,980.8	7,980.8	7,980.9	0.1
DK	275,784	43	28	5.4	7,998.4	7,998.4	7,998.4	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LITTLE THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	90	139	259	7.7	6,920.0	6,920.0	6,920.0	0.0
B	320	50	182	11.0	6,943.2	6,943.2	6,943.2	0.0
C	690	34	160	12.5	6,973.5	6,973.5	6,973.5	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: LONG GULCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	210	135	461	7.3	6,901.7	6,901.7	6,901.7	0.0
B	450	110	326	10.3	6,911.0	6,911.0	6,911.0	0.0
C	500	140	701	4.8	6,915.3	6,915.3	6,915.3	0.0
D	600	113	515	6.5	6,915.4	6,915.4	6,915.4	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: MILLER FORK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	80	65	221	10.0	7,152.2	7,152.2	7,152.2	0.0
B	290	40	183	12.0	7,167.5	7,167.5	7,167.5	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: NOEL'S DRAW

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A								
B	350	290	844	7.2	6,160.7	6,160.7	6,160.7	0.0
C	850	250	785	7.8	6,166.3	6,166.3	6,166.3	0.0
D	1,200	210	822	7.4	6,170.5	6,170.5	6,170.5	0.0
E	1,930	300	869	7.0	6,189.6	6,189.6	6,189.6	0.0
F	2,370	55	596	10.4	6,201.2	6,201.2	6,201.2	0.0
G	2,540	110	829	11.7	6,207.7	6,207.7	6,207.7	0.0
H	2,670	100	869	10.9	6,211.3	6,211.3	6,211.3	0.0
I	2,800	345	582	10.7	6,213.7	6,213.7	6,213.7	0.0
J	3,060	176	620	10.0	6,219.7	6,219.7	6,219.7	0.0
K	3,560	465	992	6.3	6,226.8	6,226.8	6,226.8	0.0
L	4,300	380	940	6.6	6,236.3	6,236.3	6,236.3	0.0
M	4,600	225	787	7.9	6,241.0	6,241.0	6,241.0	0.0
N	5,500	340	825	7.5	6,253.4	6,253.4	6,253.4	0.0
O	6,030	310	916	6.8	6,261.0	6,261.0	6,261.0	0.0
P	6,550	270	881	7.0	6,268.1	6,268.1	6,268.1	0.0
Q	6,980	320	510	12.2	6,275.9	6,275.9	6,275.9	0.0
R	7,640	570	534	11.6	6,287.6	6,287.6	6,287.6	0.0
S	8,200	349	897	7.0	6,295.2	6,295.2	6,295.2	0.0
T	8,500	350	987	6.3	6,301.8	6,301.8	6,301.8	0.0
U	8,600	310	637	9.7	6,302.5	6,302.5	6,302.5	0.0
V	9,050	180	553	10.5	6,310.7	6,310.7	6,310.7	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: NORTH FORK BIG THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
W	9,350	160	580	10.0	6,314.0	6,314.0	6,314.0	0.0
X	9,570	107	494	11.7	6,318.3	6,318.3	6,318.3	0.0
Y	9,930	97	454	12.8	6,326.1	6,326.1	6,326.1	0.0
Z	10,620	80	482	12.0	6,339.2	6,339.2	6,339.2	0.0
AA	10,970	90	514	11.3	6,345.3	6,345.3	6,345.3	0.0
AB	11,280	135	610	9.5	6,351.0	6,351.0	6,351.0	0.0
AC	11,880	200	715	8.1	6,359.8	6,359.8	6,359.8	0.0
AD	12,190	190	653	8.9	6,363.2	6,363.2	6,363.2	0.0
AE	12,670	286	820	7.1	6,374.1	6,374.1	6,374.1	0.0
AF	12,935	242	742	7.8	6,378.9	6,378.9	6,378.9	0.0
AG	13,245	280	728	8.0	6,383.7	6,383.7	6,383.7	0.0
AH	13,815	154	647	9.0	6,392.1	6,392.1	6,392.1	0.0
AI	14,510	160	636	9.1	6,405.6	6,405.6	6,405.6	0.0
AJ	15,406	100	509	11.4	6,424.5	6,424.5	6,424.5	0.0
AK	15,630	201	670	8.7	6,428.9	6,428.9	6,428.9	0.0
AL	16,015	130	574	10.1	6,437.7	6,437.7	6,437.7	0.0
AM	16,430	253	709	8.2	6,448.4	6,448.4	6,448.4	0.0
AN	16,680	150	589	9.8	6,455.8	6,455.8	6,455.8	0.0
AO	16,700	160	1,040	5.6	6,458.6	6,458.6	6,458.6	0.0
AP	17,835	205	633	9.2	6,478.5	6,478.5	6,478.5	0.0
AQ	17,900	210	650	8.9	6,480.3	6,480.3	6,480.3	0.0
AR	18,500	130	525	10.5	6,495.1	6,495.1	6,495.1	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: NORTH FORK BIG THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AS	18,520	140	586	9.4	6,499.1	6,499.1	6,499.1	0.0
AT	18,980	110	515	10.7	6,512.4	6,512.4	6,512.4	0.0
AU	19,370	169	626	8.8	6,530.1	6,530.1	6,530.1	0.0
AV	19,600	126	562	9.8	6,538.4	6,538.4	6,538.4	0.0
AW	19,630	135	723	7.6	6,539.7	6,539.7	6,539.7	0.0
AX	19,860	83	450	12.2	6,547.8	6,547.8	6,547.8	0.0
AY	19,950	81	417	13.2	6,555.2	6,555.2	6,555.2	0.0
AZ	20,590	78	410	13.4	6,567.5	6,567.5	6,567.5	0.0
BA	21,810	89	458	12.0	6,595.4	6,595.4	6,595.4	0.0
BB	22,550	90	475	11.6	6,626.0	6,626.0	6,626.0	0.0
BC	22,580	80	400	13.8	6,628.3	6,628.3	6,628.3	0.0
BD	23,090	148	551	10.0	6,643.9	6,643.9	6,643.9	0.0
BE	23,615	93	460	12.0	6,663.5	6,663.5	6,663.5	0.0
BF	23,650	93	477	11.5	6,664.8	6,664.8	6,664.8	0.0
BG	24,050	76	414	13.3	6,679.0	6,679.0	6,679.0	0.0
BH	24,530	89	441	12.5	6,699.8	6,699.8	6,699.8	0.0
BI	25,090	53	379	14.5	6,728.1	6,728.1	6,728.1	0.0
BJ	26,090	87	443	12.4	6,764.6	6,764.6	6,764.6	0.0
BK	26,600	76	412	13.3	6,791.6	6,791.6	6,791.6	0.0
BL	26,825	79	419	13.1	6,812.4	6,812.4	6,812.4	0.0
BM	27,305	90	455	12.1	6,831.5	6,831.5	6,831.5	0.0
BN	27,985	117	544	10.1	6,848.8	6,848.8	6,848.8	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: NORTH FORK BIG THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BO	28,260	234	1,056	5.2	6,852.2	6,852.2	6,852.2	0.0
BP	28,780	250	724	7.6	6,861.0	6,861.0	6,861.0	0.0
BQ	28,845	270	764	7.2	6,863.8	6,863.8	6,863.8	0.0
BR	29,225	100	531	10.4	6,870.0	6,870.0	6,870.0	0.0
BS	29,495	86	444	12.4	6,873.2	6,873.2	6,873.2	0.0
BT	29,700	115	518	1.6	6,881.2	6,881.2	6,881.2	0.0
BU	30,190	140	553	9.9	6,891.8	6,891.8	6,891.8	0.0
BV	30,615	232	705	6.8	6,900.4	6,900.4	6,900.4	0.0
BW	31,150	257	662	7.3	6,908.5	6,908.5	6,908.5	0.0
BX	31,700	230	511	9.4	6,914.7	6,914.7	6,914.7	0.0
BY	32,410	185	622	7.8	6,925.9	6,925.9	6,925.9	0.0
BZ	32,830	252	833	5.8	6,934.4	6,934.4	6,934.4	0.0
CA	32,875	270	639	7.5	6,934.5	6,934.5	6,934.5	0.0
CB	33,480	240	776	6.2	6,947.6	6,947.6	6,947.6	0.0
CC	33,905	95	422	11.4	6,951.3	6,951.3	6,951.3	0.0
CD	34,840	186	592	8.1	6,973.2	6,973.2	6,973.2	0.0
CE	34,880	195	641	7.5	6,974.4	6,974.4	6,974.4	0.0
CF	35,950	95	390	12.3	6,996.3	6,996.3	6,996.3	0.0
CG	36,380	130	473	10.1	7,003.4	7,003.4	7,003.4	0.0
CH	36,715	88	409	11.7	7,010.1	7,010.1	7,010.1	0.0
CI	36,990	115	473	10.1	7,017.4	7,017.4	7,017.4	0.0
CJ	37,030	101	432	11.1	7,019.5	7,019.5	7,019.5	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: NORTH FORK BIG THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CK	37,710	119	488	9.8	7,036.5	7,036.5	7,036.5	0.0
CL	37,730	129	500	9.6	7,037.7	7,037.7	7,037.7	0.0
CM	38,140	175	539	8.9	7,046.0	7,046.0	7,046.0	0.0
CN	38,160	142	805	6.0	7,048.3	7,048.3	7,048.3	0.0
CO	38,605	99	464	10.3	7,059.1	7,059.1	7,059.1	0.0
CP	38,815	116	480	10.0	7,068.0	7,068.0	7,068.0	0.0
CQ	39,035	175	560	8.6	7,072.7	7,072.7	7,072.7	0.0
CR	40,195	86	418	11.5	7,094.2	7,094.2	7,094.2	0.0
CS	40,970	70	388	12.4	7,117.0	7,117.0	7,117.0	0.0
CT	41,115	110	479	10.0	7,119.5	7,119.5	7,119.5	0.0
CU	41,140	155	721	6.7	7,123.5	7,123.5	7,123.5	0.0
CV	41,425	109	452	10.6	7,133.8	7,133.8	7,133.8	0.0
CW	41,665	75	388	12.4	7,143.7	7,143.7	7,143.7	0.0
CX	41,865	124	479	9.9	7,156.0	7,156.0	7,156.0	0.0
CY	42,470	97	721	11.6	7,170.3	7,170.3	7,170.3	0.0
CZ	42,590	95	452	11.2	7,176.5	7,176.5	7,176.5	0.0
DA	43,010	81	388	11.8	7,182.5	7,182.5	7,182.5	0.0
DB	43,785	65	444	9.9	7,199.3	7,199.3	7,199.3	0.0
DC	43,860	105	493	8.9	7,204.0	7,204.0	7,204.0	0.0
DD	43,900	121	654	6.7	7,205.3	7,205.3	7,205.3	0.0
DE	43,945	126	646	6.8	7,205.6	7,205.6	7,205.6	0.0
DF	44,370	124	486	9.1	7,215.5	7,215.5	7,215.5	0.0

[1]Feet above confluence with Big Thompson River

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
DG	44,455	92	375	11.7	7,216.3	7,216.3	7,216.3	0.0
DH	44,555	166	742	5.9	7,220.5	7,220.5	7,220.5	0.0
DI	44,650	197	685	6.4	7,220.7	7,220.7	7,220.7	0.0
DJ	44,865	114	472	9.3	7,223.7	7,223.7	7,223.7	0.0
DK	45,175	102	383	10.4	7,232.1	7,232.1	7,232.1	0.0
DL	45,470	140	446	9.0	7,239.8	7,239.8	7,239.8	0.0
DM	45,560	130	472	8.5	7,242.2	7,242.2	7,242.2	0.0
DN	45,580	119	444	9.0	7,242.4	7,242.4	7,242.4	0.0
DO	45,620	103	551	7.3	7,243.9	7,243.9	7,243.9	0.0
DP	45,930	150	447	8.9	7,251.2	7,251.2	7,251.2	0.0
DQ	46,080	105	448	8.3	7,254.8	7,254.8	7,254.8	0.0
DR	46,090	110	327	11.3	7,255.2	7,255.2	7,255.2	0.0
DS	46,200	115	446	8.3	7,259.2	7,259.2	7,259.2	0.0
DT	46,385	121	401	9.2	7,265.2	7,265.2	7,265.2	0.0
DU	46,765	64	336	11.0	7,279.4	7,279.4	7,279.4	0.0
DV	46,780	62	338	10.9	7,280.7	7,280.7	7,280.7	0.0
DW	47,420	95	403	9.2	7,299.7	7,299.7	7,299.7	0.0
DX	48,165	82	354	10.5	7,227.1	7,227.1	7,227.1	0.0
DY	48,190	86	366	10.1	7,329.4	7,329.4	7,329.4	0.0
DZ	48,360	89	365	10.1	7,332.9	7,332.9	7,332.9	0.0
EA	48,865	130	392	9.4	7,353.4	7,353.4	7,353.4	0.0
EB	49,750	87	356	10.4	7,379.1	7,379.1	7,379.1	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: NORTH FORK BIG THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EC	50,015	70	336	11.0	7,384.9	7,384.9	7,384.9	0.0
ED	50,715	95	376	9.8	7,409.3	7,409.3	7,409.3	0.0
EE	51,210	85	312	11.9	7,422.1	7,422.1	7,422.1	0.0
EF	51,370	105	339	10.9	7,430.2	7,430.2	7,430.2	0.0
EG	52,020	118	414	8.9	7,450.6	7,450.6	7,450.6	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: NORTH FORK BIG THOMPSON RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	50	29	106.7	1.2	4,919.4	4,915.3[2]	4,915.3[2]	0.0
B	281	57	68.7	1.8	4,919.4	4,915.4[2]	4,915.4[2]	0.0
C	418	28	32.7	3.8	4,919.4	4,915.8[2]	4,915.8[2]	0.0
D	562	36	53.4	2.3	4,919.4	4,916.6[2]	4,916.6[2]	0.0
E	779	73	49.7	2.5	4,919.4	4,916.8[2]	4,916.8[2]	0.0
F	827	31	18.5	6.8	4,919.4	4,917.6[2]	4,917.6[2]	0.0
G	869	90	86.2	1.5	4,919.4	4,918.5[2]	4,918.5[2]	0.0
H	936	71	85.1	1.5	4,919.4	4,918.5[2]	4,918.5[2]	0.0
I	1,151	34	28.4	4.4	4,919.5	4,919.5	4,919.5	0.0
J	1,277	23	31.8	3.9	4,920.6	4,920.6	4,920.6	0.0
K	1,486	173	184.9	0.7	4,922.1	4,922.1	4,922.3	0.2
L	2,109	35	63.5	2.0	4,923.4	4,923.4	4,923.4	0.0
M	2,719	77	59.0	2.1	4,924.3	4,924.3	4,924.3	0.0
N	2,900[1]	58	110.0	1.1	4,924.4	4,924.4	4,924.4	0.0
O	2,956[1]	31	22.2	5.6	4,924.6	4,924.6	4,924.6	0.0
P	3,173[1]	40	47.0	2.7	4,926.0	4,926.0	4,926.0	0.0
Q	3,653[1]	44	45.8	2.7	4,927.3	4,927.3	4,927.3	0.0
R	3,914[1]	35	51.9	2.4	4,927.9	4,927.9	4,927.9	0.0

[1]Feet above confluence with Cache La Poudre River
[2]Elevations computed without consideration of backwater from Cache La Poudre River

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	50	50/40[2]	70	16.9	6,493.0	6,493.0	6,493.0	0.0
B	220	50/30[2]	75	9.1	6,507.3	6,507.3	6,507.3	0.0
C	400	20/80[2]	105	10.6	6,520.2	6,520.2	6,520.2	0.0
D	500	50	30	20.8	6,526.9	6,526.9	6,526.9	0.0
E	610	40	30	12.4	6,537.7	6,537.7	6,537.7	0.0
F	690	30	30	11.9	6,538.3	6,538.3	6,538.3	0.0
G	796	70	50	16.7	6,546.7	6,546.7	6,546.7	0.0
H	890	70	60	11.6	6,558.8	6,558.8	6,558.8	0.0

[1]Feet above confluence with Big Thompson River
[2]Left Channel/Right Channel

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: QUILLAN GULCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	110	116	286	7.7	6,949.2	6,949.2	6,949.2	0.0
B	240	52	211	10.4	6,954.9	6,954.9	6,954.9	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: RABBIT GULCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	400	253	1,301	9.8	5,301.4	5,301.4	5,301.4	0.0
B	530	290	1,543	8.0	5,304.3	5,304.3	5,304.3	0.0
C	580	337	2,574	4.8	5,306.5	5,306.5	5,306.5	0.0
D	610	450	3,487	3.5	5,308.2	5,308.2	5,308.2	0.0
E	660	395	2,351	5.3	5,308.2	5,308.2	5,308.2	0.0
F	1,045	190	1,156	10.7	5,309.4	5,309.4	5,309.4	0.0
G	1,500	178	1,148	10.8	5,315.2	5,315.2	5,315.2	0.0
H	2,405	410	2,368	5.2	5,322.2	5,322.2	5,322.2	0.0
I	3,600	155	1,129	11.0	5,336.3	5,336.3	5,336.3	0.0
J	4,530	169	1,235	10.0	5,350.0	5,350.0	5,350.0	0.0
K	4,900	305	2,135	5.8	5,353.7	5,353.7	5,353.7	0.0
L	5,400	270	1,367	9.0	5,357.2	5,357.2	5,357.2	0.0
M	6,070	460	1,713	7.2	5,366.9	5,366.9	5,366.9	0.0
N	6,120	360	2,631	4.7	5,368.3	5,368.3	5,368.3	0.0
O	6,150	550	4,272	2.9	5,370.7	5,370.7	5,370.7	0.0
P	6,200	400	2,789	4.4	5,370.7	5,370.7	5,370.7	0.0

[1]Feet above confluence with Buckhorn Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: REDSTONE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,000	459	92	2.4	4,917.5	4,917.5	4,917.5	0.0
B	1,448	110	135	1.7	4,918.6	4,918.6	4,919.0	0.4
C	1,760	172	94	2.4	4,919.5	4,919.5	4,919.8	0.3

[1]Feet above confluence with Cache La Poudre Reservoir Inlet Ditch

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SHERRY DRIVE OVERFLOW

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	169	43	18	2.8	5,020.2	5,020.2	5,020.2	0.0
B	442	41	16	3.2	5,021.1	5,021.1	5,021.1	0.0
C	811	37	15	3.4	5,024.0	5,024.0	5,024.0	0.0

[1]Feet above confluence with Spring Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SHIELDS STREET OVERFLOW

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	582	673	3,786	0.2	5,121.8	5,121.8	5,121.8	0.0
B	1,075	735	1,954	0.7	5,121.8	5,121.8	5,121.8	0.0

[1]Feet above confluence with Spring Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SPRING CANYON PARK DIVERSION

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	113	1,056	1,053	2.4	4,902.7	4,902.7	4,902.9	0.2
B	1,335	1,536	705	3.9	4,905.8	4,905.8	4,905.8	0.0
C	2,330	83	406	6.3	4,908.9	4,908.9	4,909.3	0.4
D	2,434	85	440	5.8	4,910.1	4,910.1	4,910.4	0.3
E	3,116	96	463	5.5	4,912.5	4,912.5	4,912.6	0.1
F	3,297	110	592	4.3	4,913.6	4,913.6	4,913.6	0.0
G	3,412	77	303	8.4	4,913.6	4,913.6	4,913.6	0.0
H	3,642	485	4,116	0.6	4,922.8	4,922.8	4,922.8	0.0
I	4,186	285	1,999	2.3	4,922.9	4,922.9	4,922.9	0.0
J	5,154	364	866	4.9	4,923.9	4,923.9	4,923.9	0.0
K	5,218	459	1,805	2.7	4,926.9	4,926.9	4,926.9	0.0
L	5,729	161	719	5.5	4,927.6	4,927.6	4,927.6	0.0
M	6,348	175	1,052	3.6	4,932.2	4,932.2	4,932.2	0.0
N	7,234	160	721	5.1	4,933.9	4,933.9	4,933.9	0.0
O	7,662	30	234	15.8	4,934.2	4,934.2	4,934.3	0.1
P	7,744	116	727	10.1	4,939.1	4,939.1	4,939.6	0.5
Q	8,474	121	782	4.6	4,942.6	4,942.6	4,942.8	0.2
R	9,188	81	357	9.9	4,945.1	4,945.1	4,945.3	0.2
S	9,278	84	498	7.1	4,947.4	4,947.4	4,947.7	0.3
T	9,777	334	1,147	2.0	4,950.1	4,950.1	4,950.1	0.0
U	10,535	303	898	2.6	4,954.9	4,954.9	4,954.9	0.0

[1]Feet above confluence with Cache La Poudre River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SPRING CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	11,375	266	648	3.6	4,957.6	4,957.6	4,957.6	0.0
W	12,330	318	596	3.9	4,962.1	4,962.1	4,962.2	0.1
X	12,793	46	316	6.5	4,964.3	4,964.3	4,964.4	0.1
Y	12,860	84	357	7.0	4,965.1	4,965.1	4,965.3	0.2
Z	13,138	69	258	8.0	4,966.9	4,966.9	4,966.9	0.0

[1]Feet above confluence with Cache La Poudre River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SPRING CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	13,455	58	341	6.0	4,969.6	4,969.6	4,969.8	0.2
AB	13,535	56	394	5.2	4,970.9	4,970.9	4,970.9	0.0
AC	14,438	215	461	4.4	4,974.6	4,974.6	4,974.6	0.0
AD	15,059	180	491	4.2	4,980.2	4,980.2	4,980.7	0.5
AE	15,721	66	376	5.2	4,983.4	4,983.4	4,983.7	0.3
AF	15,947	148	631	3.1	4,984.8	4,984.8	4,985.0	0.2
AG	16,451	73	290	8.6	4,987.8	4,987.8	4,987.8	0.0
AH	16,565	1,637	13,668	0.1	4,998.0	4,998.0	4,998.0	0.0
AI	18,198	1,988	9,464	0.3	4,998.0	4,998.0	4,998.0	0.0
AJ	19,392	1,288	4,375	0.7	4,998.2	4,998.2	4,998.2	0.0
AK	20,390	194	1,096	2.6	5,001.7	5,001.7	5,001.8	0.1
AL	21,335	158	510	5.5	5,007.2	5,007.2	5,007.3	0.1
AM	22,186	104	539	4.3	5,014.4	5,014.4	5,014.5	0.1
AN	23,338	83	519	4.5	5,019.8	5,019.8	5,019.9	0.1
AO	25,001	1,018	621	5.4	5,031.0	5,031.0	5,031.0	0.0
AP	25,705	697	866	2.8	5,033.8	5,033.8	5,033.8	0.0
AQ	25,757	654	1,764	2.1	5,034.6	5,034.6	5,034.8	0.2
AR	26,264	475	744	3.3	5,040.3	5,040.3	5,040.3	0.0
AS	27,581	243	406	3.8	5,049.6	5,049.6	5,049.9	0.3
AT	27,816	188	429	3.6	5,051.3	5,051.3	5,051.4	0.1
AU	28,295	43	178	8.6	5,053.5	5,053.5	5,053.5	0.0

[1]Feet above confluence with Cache La Poudre River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SPRING CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AV	28,435	44	249	6.2	5,055.5	5,055.5	5,055.5	0.0
AW	29,046	65	168	8.5	5,058.2	5,058.2	5,058.2	0.0
AX	29,714	110	329	2.9	5,066.6	5,066.6	5,066.9	0.3
AY	30,694	34	95	8.9	5,071.8	5,071.8	5,071.8	0.0
AZ	30,960	246	2,519	0.3	5,087.5	5,087.5	5,087.5	0.0
BA	31,822	208	736	2.1	5,087.5	5,087.5	5,087.5	0.0
BB	32,862	130	553	2.7	5,095.5	5,095.5	5,095.9	0.4
BC	33,890	56	237	5.8	5,101.6	5,101.6	5,101.7	0.1
BD	34,694	184	348	3.3	5,107.1	5,107.1	5,107.5	0.4
BE	35,400	536	581	1.9	5,112.5	5,112.5	5,112.5	0.0
BF	37,373	199	514	2.9	5,125.1	5,125.1	5,125.1	0.0
BG	38,061	140	325	4.3	5,131.7	5,131.7	5,131.7	0.0
BH	39,593	153	298	4.7	5,149.8	5,149.8	5,149.9	0.1
BI	40,338	69	433	2.7	5,158.9	5,158.9	5,159.4	0.5
BJ	41,434	109	141	5.0	5,172.7	5,172.7	5,172.8	0.1

[1]Feet above confluence with Cache La Poudre River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: SPRING CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	90	30	78	7.3	7,306.0	7,306.0	7,306.0	0.0
B	260	40	63	9.0	7,331.0	7,331.0	7,331.0	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY BT-1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	130	40	184	9.0	7,298.8	7,298.8	7,298.8	0.0
B	280	60	213	7.7	7,310.5	7,310.5	7,310.5	0.0
C	690	57	167	9.9	7,341.8	7,341.8	7,341.8	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY BT-2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	60	131	213	7.3	7,103.7	7,103.7	7,103.7	0.0
B	160	60	179	8.7	7,117.1	7,117.1	7,117.1	0.0
C	250	48	154	10.1	7,136.9	7,136.9	7,136.9	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY BT-3

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	140	33	62	8.1	7,013.8	7,013.8	7,013.8	0.0
B	220	21	54	9.3	7,039.2	7,039.2	7,039.2	0.0

[1]Feet above confluence with Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY BT-4

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	260	135	454	8.8	7,229.2	7,229.2	7,229.2	0.0
B	440	142	450	8.9	7,231.9	7,231.9	7,231.9	0.0
C	550	172	506	7.9	7,234.8	7,234.8	7,234.8	0.0
D	600	170	470	8.5	7,237.0	7,237.0	7,237.0	0.0
E	1,130	168	481	8.3	7,245.9	7,245.9	7,245.9	0.0
F	1,715	80	411	9.7	7,252.7	7,252.7	7,252.7	0.0
G	2,555	100	418	9.6	7,268.3	7,268.3	7,268.3	0.0
H	2,630	105	454	8.8	7,270.2	7,270.2	7,270.2	0.0
I	3,250	160	462	8.7	7,278.1	7,278.1	7,278.1	0.0
J	3,775	100	401	10.0	7,288.6	7,288.6	7,288.6	0.0
K	4,465	110	387	10.3	7,301.1	7,301.1	7,301.1	0.0
L	4,550	125	642	6.2	7,302.7	7,302.7	7,302.7	0.0
M	4,945	135	452	8.8	7,312.5	7,312.5	7,312.5	0.0
N	5,270	130	565	7.1	7,315.0	7,315.0	7,315.0	0.0
O	5,925	120	386	10.4	7,323.7	7,323.7	7,323.7	0.0
P	6,220	137	463	9.0	7,330.1	7,330.1	7,330.1	0.0
Q	6,270	202	976	4.1	7,331.8	7,331.8	7,331.8	0.0
R	6,380	105	406	9.9	7,332.6	7,332.6	7,332.6	0.0
S	6,740	128	392	10.2	7,339.7	7,339.7	7,339.7	0.0
T	6,860	57	301	13.3	7,343.3	7,343.3	7,343.3	0.0
U	6,960	72	329	12.2	7,347.0	7,347.0	7,347.0	0.0
V	7,100	110	847	4.2	7,353.2	7,353.2	7,353.2	0.0
W	7,520	59	301	13.3	7,358.2	7,358.2	7,358.2	0.0

[1]Feet above confluence with North Fork Big Thompson River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

LARIMER COUNTY, CO

AND INCORPORATED AREAS

FLOODWAY DATA

FLOODING SOURCE: WEST CREEK

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

[Not applicable to this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this Flood Risk Project

Table 25: Summary of Coastal Transect Mapping Considerations

[Not applicable to this Flood Risk Project]

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.

To obtain an application for a LOMA, visit www.fema.gov/floodplain-management/letter-map-amendment-loma 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 www.fema.gov/online-tutorials.

For more information about how to apply for a LOMA, call the FEMA Map Information 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/floodplain-management/letter-map-amendment-loma 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 Map Information 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 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, visit www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/mt-2-application-forms-and-instructions and download the form "MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision". Visit the "Flood Map-Related Fees" section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information 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 Larimer County FIRM are listed in Table 26. Please note that this table only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

Table 26: Incorporated Letters of Map Change

[Not Applicable to this Flood Risk Project]

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 Larimer 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 Larimer County FIRMs in countywide format was 12/19/2006.

Table 27: Community Map History

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Berthoud, Town of[1]	12/19/2006	N/A	N/A	12/19/2006	1/15/2021, 2/6/2013
Estes Park, Town of	9/19/1975	9/19/1975	N/A	1/17/1979	1/15/2021, 12/19/2006, 5/4/1987
Fort Collins, City of	6/28/1974	6/28/1974	N/A	7/16/1979	5/2/2012, 6/17/2008, 12/19/2006, 3/18/1996, 2/15/1984
Johnstown, Town of[1]	12/19/2006	N/A	N/A	12/19/2006	1/15/2021
Larimer County, Unincorporated Areas	12/27/1974	12/27/1974	3/11/1977	4/2/1979	1/15/2021, 2/6/2013, 5/2/2012, 6/17/2008, 12/19/2006, 3/23/1999, 7/17/1997, 3/18/1996, 11/17/1993, 3/4/1987, 3/18/1986
Loveland, City of	3/1/1974	3/1/1974	12/17/1976	9/1/1978	1/15/2021 2/6/2013, 12/19/2006, 3/23/1999, 1/18/1984
Timnath, Town of[1]	12/19/2006	N/A	N/A	12/19/2006	N/A
Wellington, Town of	3/22/1974	3/22/1974	1/17/1975	2/15/1979	12/19/2006, 10/20/1998, 12/3/1993

[1] This community did not have a FIRM prior to the first countywide FIRM for Larimer 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
Little Thompson River and Zone A, AE Tributaries	1/15/2021	AECOM; Colorado Hazard Mapping Program (CHAMP)	2016-1452	February 2017	Berthoud, Town of; Johnstown, Town of; Larimer County, Unincorporated Areas
Big Thompson River, Fall River, Black Canyon Creek and Zone A, AE Tributaries	2/6/2013	Simons, Li & Associates, Inc., Resource Consultants, Inc.	EMW-83-C-1l67	April 1985	Estes Park, Town of; Loveland, City of; Larimer County, Unincorporated Areas
Big Thompson River, Dry Creek	2/6/2013	Anderson Consulting Engineers, Inc.	N/A	March 2005	Loveland, City of
Cache La Poudre River	2/6/2013	US Department of the Army Corps of Engineers (USACE), Omaha District; Simons, Li & Associates, Inc.; Ayres Associates	EMW-86-C-2262, H-4017	October 2005	Fort Collins, City of; Larimer County, Unincorporated Areas
Cooper Slough, Boxelder Creek Overflow	2/6/2013	Anderson Consulting Engineers, Inc.	EMW-90-C313	2005	Fort Collins, City of; Larimer County, Unincorporated Areas

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Dry Creek	2/6/2013	Gingery Associates, Inc.	N/A	June 2008	Fort Collins, City of; Larimer County, Unincorporated Areas
Spring Creek, Shields Street Overflow, Spring Canyon Park Diversion	2/6/2013	Anderson Consulting Engineers, Inc.	N/A	May 2012	Fort Collins, City of; Larimer County, Unincorporated Areas

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	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Berthoud, Town of	1/15/2021	7/9/2015	Scoping	FEMA, the community, the study contractor, and the Department of Natural Resources (DNR)
		4/12/2019	CCO Meeting	FEMA, the community, and the study contractor
Estes Park, Town of	2/6/2013	N/A	N/A	N/A
Fort Collins, City of	2/6/2013	N/A	N/A	N/A
Johnstown, Town of	1/15/2021	7/9/2015	Scoping	FEMA, the community, the study contractor, and the Department of Natural Resources (DNR)
		4/12/2019	CCO Meeting	FEMA, the community, and the study contractor
Larimer County, Unincorporated Areas	1/15/2021	7/9/2015	Scoping	FEMA, the community, the study contractor, and the Department of Natural Resources (DNR)
		4/12/2019	CCO Meeting	FEMA, the community, and the study contractor
Loveland, City of	2/6/2013	N/A	N/A	N/A

Table 29: Community Meetings (continued)

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Timnath, Town of	2/6/2013	N/A	N/A	N/A
Wellington, Town of	2/6/2013	11/5/2005	Final CCO Meeting	FEMA, the community, and the study contractor

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 www.fema.gov.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for Larimer County (FEMA 2006).

Table 30 is a list of the locations where FIRMs for Larimer 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	Address	City	State	Zip Code
Berthoud, Town of	Town Hall 807 Mountain Avenue	Berthoud	CO	80513
Estes Park, Town of	Town Hall 170 MacGregor Avenue	Estes Park	CO	80517
Fort Collins, City of	Stormwater Utilities Department 700 Wood Street	Fort Collins	CO	80521
Johnstown, Town of	Town Hall 450 South Parish Avenue	Johnstown	CO	80534
Larimer County, Unincorporated Areas	Courthouse Offices Building 200 West Oak Street Suite 3000	Fort Collins	CO	80521
Loveland, City of	Public Works Department 2525 West First Street	Loveland	CO	80537
Timnath, Town of	4100 Main Street	Timnath	CO	80547
Wellington, Town of	Town Hall 3735 Cleveland Street	Wellington	CO	80549

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	www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library
NFIP website	www.fema.gov/national-flood-insurance-program
NFHL Dataset	msc.fema.gov
FEMA Region VIII	Denver Federal Center, Building 710 P.O. Box 25267 Denver, CO 80255-0267 (303) 235-4812
Other Federal Agencies	
USGS website	www.usgs.gov
Hydraulic Engineering Center website	www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	Doug Mahan CWCB Community Assistance Program Coordinator 1313 Sherman Street, Suite 721 Denver, CO 80203 (303) 866-3441 x3221 doug.mahan@state.co.us
State GIS Coordinator	Jon Gottsegen Statewide GIS Coordinator 601 E. 18th Ave Denver, CO 80203 Phone: (303) 764-7712 jon.gottsegen@state.co.us

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
AECOM, 2016	AECOM	*Alternate methods for calculating the 1-percent-plus flood discharge*.		Denver, CO	February 2016	Colorado Water Conservation Board
ARIX 1984	ARIX Engineering	*Topographic Maps*			May 1984	
Ayres 2004	Ayres Associates, Inc.	*Topographic Mapping for Dry Creek from North College Avenue to East Vine Drive*			2004	
CH2M Hill, 2015	CDOT	*Little Thompson River Hydrologic Analysis Phase 2: Little Thompson River above Big Thompson River*.		Denver, CO	June 2015	http://cwcb.state.co.us/water-management/flood/pages/2013floodresponse.aspx
CSU 1997	Colorado State University, Fort Collins Flood 1997	*Assessing the July 28, 1977 Extreme Event that hit Fort Collins and Colorado State University*			November 6, 1997	
CWCB 2016	Colorado Water Conservation Board	*Big Thompson CO CHAMP Survey TSDN*		Denver, CO	March 2, 2016	
CWCB 2016a	Colorado Water Conservation Board	*Big Thompson CO CHAMP Hydrology TSDN*		Denver, CO	March 31, 2017	
CWCB 2017	Colorado Water Conservation Board	*Big Thompson CO CHAMP Hydraulics TSDN*		Denver, CO	March 21, 2017	
CWCB 2018	Colorado Water Conservation Board	*Big Thompson CO CHAMP Floodplain Mapping TSDN*		Denver, CO	February 28, 2018	

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
EPI 1988	Engineering Professionals, Inc.	*Spring Creek Master Drainageway Plan*			March 1988	
FEMA 1996	Federal Emergency Management Agency	*Flood Insurance Study, City of Fort Collins, Colorado*.		Washington, D.C.	March 1996	
FEMA 1999	Federal Emergency Management Agency	*Flood Insurance Study, City of Loveland, Colorado*.		Washington, D.C.	March 1999	
FEMA 1998	Federal Emergency Management Agency	*Flood Insurance Study, Town of Wellington, Colorado*.		Washington, D.C.	October 1998	
FEMA 1987	Federal Emergency Management Agency	*Flood Insurance Study, Town of Estes Park, Colorado*.		Washington, D.C.	May 4, 1987	
FEMA 2006	Federal Emergency Management Agency	*Flood Insurance Study, Larimer County, Colorado*.		Washington, D.C.	December 2006	FEMA Flood Map Service Center msc.fema.gov
FEMA 2014	Federal Emergency Management Agency	*Memorandum from Roger Jones, Public Assistance Branch Director DR 4145, Ryan Pietramali, Risk Analysis Branch Chief, and Portia Ross, EHP Advisor DR 4145*			November 2014	

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA 2015	Federal Emergency Management Agency	*Memorandum from Tom Bush, Public Assistance Branch Chief, and Ryan Pietramali, Risk Analysis Branch Chief.*			July 2015	
Gingery 1976	Gingery Associates, Inc.	*Special Flood Plain Information Report, Big Thompson River and Tributaries, Larimer County, Colorado*			December 1976	
Gingery 1980	Gingery Associates, Inc.	*Major Drainageway Planning*			April 1980	
Greenhorne	Greenhorne & O'Mara, Inc	*Spring Creek Topographic Mapping in Fort Collins*				
Hogan/ Olhausen 1977	Hogan/Olhausen, Inc.	*Topographic Maps of Buckhorn Creek and Redstone Creek*			October 1977	
Jacobs 2014	CDOT	*Hydrologic Evaluation of the Big Thompson Watershed, Post September 2013 Flood Event*.			August 2014	http://cwcb.state.co.us/watermanagement/flood/pages/2013floodresponse.aspx
Jacobs 2015	CDOT	*Lower Big Thompson Watershed Phase 2 Hydrologic Evaluation, Post September 2013 Flood Event*.			July 2015	http://cwcb.state.co.us/watermanagement/flood/pages/2013floodresponse.aspx
Kucera 1981	Kucera & Associates, Photogrammetric Consultants	*Topographic Maps of Big Thompson River and Tributaries*			September 1976, June 1979, May 1981	

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
Kucera 1976	Kucera & Associates, Photogrammetric Consultants	*Big Thompson River Topographic Mapping*			August 1976	
M & I 1971	M & I Consulting Engineers	*Estes Park Aerial Topographic Mapping*			December 1971	
M & I 1971	M & I Consulting Engineers	*Topographic Maps of Fish Creek and Fall River at Estes Park, Colorado*			December 1971	
M & I 1977	M & I Consulting Engineers	*Topographic Maps of Boxelder Creek at Wellington, Colorado*			September 1977	
M & I 1978 and 1979	M & I Consulting Engineers	*Topographic Maps of Boxelder Creek at Wellington, Colorado*			September 1977	
Merrick 1999	Merrick & Company	*Topographic Mapping for the Dry Creek Basin*			1999	
Nelson	Nelson, Healy, Patterson & Quirk	*Spring Creek Topographic Maps in Fort Collins*				
Scharf 1986	Scharf and Associates	*Spring Creek Topographic Mapping in Fort Collins*			March 1986	
Simons	Simons, Li & Associates, Inc.	*Cache La PoudreTopographic Mapping*				
Simons 1981	Simons, Li & Associates, Inc.	*Cooper Slough, Boxelder Creek Master Drainageway Planning Study, City of Fort Collins, Larimer County, Colorado*			August 1981	

Citation in this FIS	Publisher/ Issuer	*Publication Title,* "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
URS 2007	URS Corporation	*Dry Creek Physical Map Revision, PMR Report, Volumes I through V*			March 6, 2007	
URS 1971	URS, Inc	*Topographic Maps of Cache La Poudre River at Fort Collins, Colorado*			1971	
USDA 1971	U.S. Department of Agriculture, Soil Conservation Service	*Watershed Work Plan. Boxelder Creek Watershed*			February 1971	
USACE 1973	U.S. Department of the Army, Corps of Engineers, Omaha District	*Flood Plain Information Report, Cache La Poudre River, Volume I, Larimer County, Colorado*		Omaha, Nebraska	October 1973	
USACE 1971	U.S. Department of the Army, Corps of Engineers	*Flood Plain Information Report, Big Thompson River, Loveland, Colorado*			December 1971	
USACE 1973	U.S. Department of the Army, Corps of Engineers	*HEC-2 Water-Surface Profiles. Generalized Computer Program*		Davis, California	October 1973	
USGS 1948	U.S. Department of Interior, Geological Survey	*Floods in Colorado*	R. Follansbee and L. Sawyer		1948	
USGS 2016	U.S. Department of Interior, Geological Survey	*USGS Water Data for the Nation*.		Washington, D.C.	2016	http://waterdata.usgs.gov/nwis