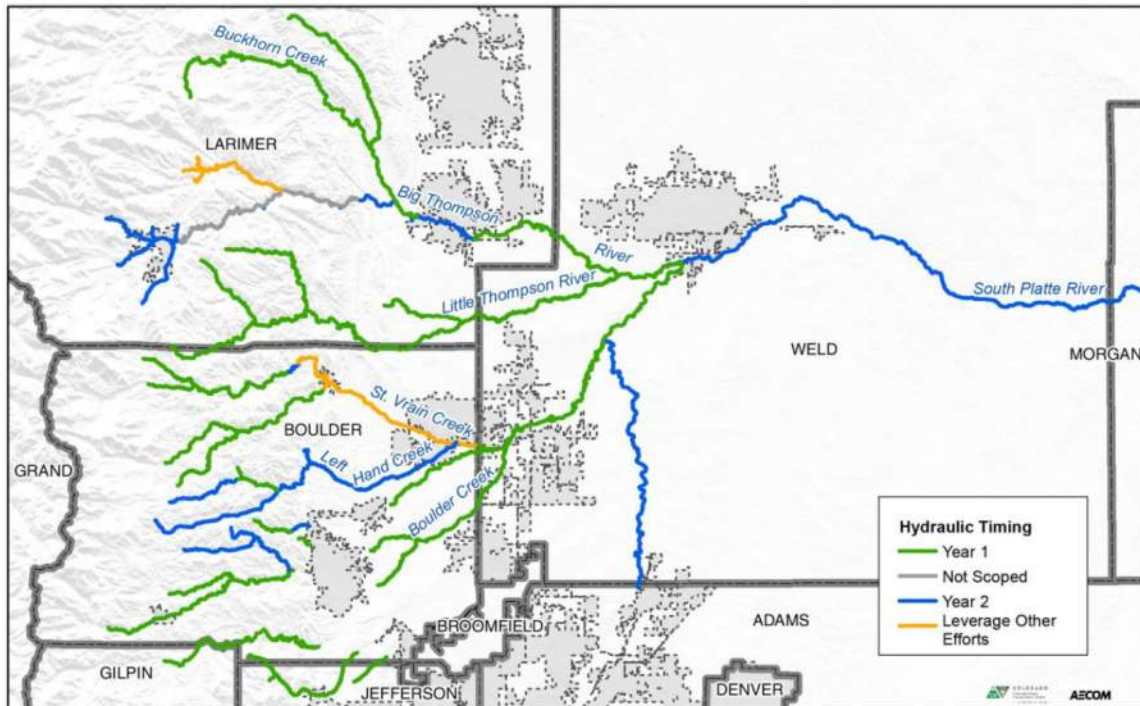


COLORADO HAZARD MAPPING PROGRAM

The 2013 flood event caused widespread damage and changes along waterways throughout the county and other areas of the state. In response, the State of Colorado is taking steps towards bolstering long-term planning and resiliency efforts by funding the Colorado Hazard Mapping Program (CHAMP). Local hazard information, including regulatory floodplain maps for the most affected waterways, will be updated through the CHAMP initiative.



Larimer County is supporting this initiative because accurate floodplain maps provide detailed information for property owners on their own flood risks. It also allows proactive measures to be taken to protect people and property before the next significant flood event occurs. More information about CHAMP can be found at <http://coloradohazardmapping.com>.

EVENTS

Draft Floodplain Maps Are Available for Year 1

Larimer County will be holding a series of open houses in the fall of 2017 to present updated floodplain mapping information for CHAMP Year 1 within Larimer County. The open house offers the opportunity to learn about the CHAMP floodplain mapping effort, to view the draft map revisions, to ask questions, and to understand if there are flood risk changes on your property. The same updated flood risk information will be shared at all three Open House Meetings. All three meetings are an open house format from 5:00 p.m. to 7:00 p.m. with a short presentation at 5:30 pm.

Tuesday, October 10th, 2017

Berthoud Community Center (248 Welch Ave.) Berthoud, CO 80513

Tuesday, October 17th, 2017

Pinewood Springs Community Church (260 Button Rock Rd.) Lyons, CO 80540

Wednesday, October 18th, 2017

Loveland School District Administrative Bld (800 S. Taft Rd.) Loveland, CO 80537

Flood Risk Review Meeting for Year 1

The Colorado Water Conservation Board's (CWCB) Colorado Hazard Mapping Program (CHAMP) held the Year 1 Flood Risk Review (FRR) meeting for Larimer County in early March 2017. The FRR meeting gave community officials the chance to review and provide early feedback on draft versions of the floodplains for Year 1 streams prior to FEMA review. It also enabled communities to proactively plan mitigation measures and communicate with the public about possible changes in flood risk.

State Adopts New Discharges for Watersheds Affected by the 2013 Flood

New discharges for the affected watersheds have been reviewed and adopted by the State. A comparison of the Proposed Discharges to the Pre-flood Effective Discharges is listed on the following pages.

Discharge Comparison of CHAMP and Pre-Flood Effective Discharges

Location	Effective					Restudy ¹					Percent Change from Effective, Q1%
	Drainage Area (sq. mi.)	Q10%	Q2%	Q1%	Q0.2%	Drainage Area (sq. mi.)	Q10%	Q2%	Q1%	Q0.2%	
Big Thompson River at Loveland Heights Cottages	191	2,750	5,700	7,500	13,600	164.3	936	3,748	6,055	14,520	-19
Big Thompson 3,900 feet downstream of Sullivan Gulch (Mountain Shadows)	191	2,750	5,700	7,500	13,600	187.6	960	3,961	6,453	15,686	-14
Big Thompson River at Drake above North Fork	191	2,750	5,700	7,500	13,600	189.7	960	3,978	6,486	15,794	-14
Big Thompson upstream of the confluence of Cedar Creek	536	4,700	12,300	19,000	44,000	281.4	2,212	7,808	12,277	27,993	-35
Big Thompson River at Mouth of Canyon (Drake Gauge)	536	4,700	12,300	19,000	44,000	314	3,041	10,054	15,449	34,002	-19
Big Thompson downstream of the confluence of Davy Ditch	-99	4,700	12,300	19,000	44,000	316.4	3,078	10,201	15,672	34,458	-18
Big Thompson upstream of the confluence of Dry Creek	515	4,700	12,300	19,000	44,000	467.2	3,279	10,016	14,845	32,400	-22
Big Thompson River at Taft Ave	515	4,700	12,300	19,000	44,000	503.7	4,417	13,140	19,305	40,841	2
Big Thompson River at Highway 287	515	4,700	12,300	19,000	44,000	531.2	4,703	13,912	20,429	42,628	8
Big Thompson River at County Road 9E	515	4,300	8,800	11,500	21,000	546.6	4,775	14,276	21,008	43,757	83
Big Thompson River at County Road 9E	515	4,700	12,300	19,000	44,000	546.6	4,775	14,276	21,008	43,757	11
Big Thompson River at Interstate 25	515	4,300	8,800	11,500	21,000	576.7	5,089	14,902	21,750	45,136	89
Big Thompson River 1,200 feet downstream of Interstate 25	595	3,600	7,600	10,000	18,500	580.1	5,096	14,936	21,820	45,314	118
Big Thompson River upstream of drainage at 3,500 feet downstream of County Road 54	613	2,200	4,700	6,500	12,000	591.8	4,598	13,361	19,548	41,684	201
Big Thompson River upstream of drainage at 3,500 feet downstream of County Road 54	595	3,600	7,600	10,000	18,500	591.8	4,598	13,361	19,548	41,684	95
Big Thompson River at County Road 15 1/2 (Road 52 & Railroad Avenue)	613	2,200	4,700	6,500	12,000	607.2	4,939	14,292	20,889	44,588	221
Big Thompson River upstream from Little Thompson River	613	2,200	4,700	6,500	12,000	619.8	4,895	13,906	20,309	44,244	212
Big Thompson River confluence with South Platte River	819	2,500	5,900	8,000	15,000	828.5	4,774	14,808	22,247	53,569	178
Buckhorn Creek at Masonville above Redstone Creek	92	4,674	10,321	13,862	24,000	96.5	3,574	8,834	12,198	22,587	-12
Buckhorn Creek 1750 feet downstream of Llama Ranch Road/Apple Valley	142.9	6,844	15,090	20,244	36,000	131.6	4,060	10,742	15,016	28,491	-26
Buckhorn Creek upstream of the confluence of Indian Creek	142.9	6,844	15,090	20,244	36,000	135.9	4,319	11,355	15,810	29,828	-22
Buckhorn Creek at confluence with Big Thompson River	142.9	6,844	15,090	20,244	36,000	144.7	4,889	12,700	17,552	32,757	-13
Cedar Creek at confluence with Big Thompson River	19.75	2,460	6,530	9,400	20,000	19	409	1,140	1,614	3,112	-83
Dickson Gulch at confluence with Big Thompson River	2.1	970	1,600	1,900	2,650	2.1	77	182	245	434	-87
Dry Creek - BTR at confluence with Big Thompson River	33	3,020	7,465	10,090	17,135	32.1	3,025	7,470	10,090	17,135	0
Dark Gulch at confluence with Big Thompson River	1.1	560	950	1,250	1,850	1.1	47	107	143	250	-89
Fish Creek 100 feet upstream of Rockwood Lane	16	105	280	400	840	3.8	23	111	178	684	-56
Fish Creek 200 feet upstream of Little Valley Road	16	105	280	400	840	9.2	58	266	426	1,636	7
Fish Creek 250 feet upstream of Scott Avenue	16	105	280	400	840	13.2	141	515	786	2,750	97
Fish Creek at Johnsen Lane	16	105	280	400	840	14.6	154	568	870	3,055	118
Fish Creek adjacent to Powelly Lane	16	105	280	400	840	15.7	177	637	970	3,359	143
Fish Creek at Lake Estes	16	105	280	400	840	15.9	181	651	990	3,426	148
Fox Creek at confluence with North Fork Big Thompson River	7.35	1,200	2,200	2,750	4,800	7.2	59	337	575	1,490	-79
Long Gulch at confluence with Big Thompson River	2	1,000	1,660	2,000	2,870	2.4	45	127	180	349	-91
Little Thompson River 3800 feet downstream of County Road 23E	113.2	-99	-99	8,300	16,900	109	2,998	9,047	13,134	26,665	58
Little Thompson River at confluence of Dry Creek	200	1,630	3,600	4,800	8,400	122.4	3,222	9,662	14,004	28,298	192
Little Thompson River at confluence of Dry Creek	133	-99	-99	9,200	18,800	122.4	3,222	9,662	14,004	28,298	52
Little Thompson River at confluence of Dry Creek	113.2	-99	-99	8,300	16,900	122.4	3,222	9,662	14,004	28,298	69
Little Thompson River at Larimer-Weld County Line	138.9	-99	-99	9,500	19,300	132.1	3,645	10,646	15,342	30,769	61
Little Thompson River 900 feet upstream of Interstate 25	200	1,630	3,600	4,800	8,400	165.9	4,303	11,039	16,115	33,661	236
Little Thompson River 1.2 miles downstream of County Road 15	200	1,630	3,600	4,800	8,400	186.5	4,636	10,795	15,765	32,297	228
Little Thompson River at Milliken	200	1,630	3,600	4,800	8,400	196.4	4,626	10,638	15,502	31,555	223
Noel's Draw at confluence with Big Thompson River	3.41	1,050	1,800	2,200	3,400	3.4	32	94	135	267	-94

Discharge Comparison of CHAMP and Pre-Flood Effective Discharges

Location	Effective					Restudy ¹					Percent Change from Effective, Q1%
	Drainage Area (sq. mi.)	Q10%	Q2%	Q1%	Q0.2%	Drainage Area (sq. mi.)	Q10%	Q2%	Q1%	Q0.2%	
North Fork Big Thompson River upstream of the confluence of Fox Creek	51	1,450	3,400	4,400	11,500	18.9	822	1,839	2,589	5,267	-41
North Fork Big Thompson River downstream of Fox Creek before West Creek	51	1,450	3,400	4,400	11,500	26.2	864	2,112	3,078	6,632	-30
North Fork Big Thompson River at Drake Road	51	1,450	3,400	4,400	11,500	85.8	1,539	4,336	6,240	12,599	42
North Fork Big Thompson River at Drake Road	83	1,500	4,100	6,100	14,100	85.8	1,539	4,336	6,240	12,599	2
Quillan Gulch at confluence with Big Thompson River	3.01	1,050	1,750	2,100	3,200	2.7	<i>45</i>	<i>119</i>	<i>168</i>	<i>319</i>	-92
Redstone Creek at confluence with Buckhorn Creek	30.5	4,187	9,217	12,370	22,500	31.1	564	1,930	2,882	6,059	-77
Tributary BT-1 at confluence with Big Thompson River	0.31	260	390	570	900	<i>0.33</i>	<i>14</i>	<i>34</i>	<i>46</i>	<i>83</i>	-92
Tributary BT-3 at confluence with Big Thompson River	1.51	720	1,200	1,550	2,300	<i>0.7</i>	<i>32</i>	<i>79</i>	<i>107</i>	<i>190</i>	-93
Tributary BT-2 at confluence with Big Thompson River	1.63	750	1,250	1,650	2,400	<i>1.6</i>	<i>26</i>	<i>77</i>	<i>112</i>	<i>221</i>	-93
West Creek upstream of the confluence of Devils Gulch	24.6	1,500	3,100	4,000	8,000	23.2	513	1,593	2,456	5,714	-39
West Creek downstream of the confluence of Devils Gulch	24.6	1,500	3,100	4,000	8,000	24.2	538	1,692	2,609	6,080	-35
West Creek at confluence with North Fork Big Thompson River	24.6	1,500	3,100	4,000	8,000	24.8	555	1,752	2,702	6,296	-32

1. Values in *italics* indicate they were not adopted from an existing study. Values were calculated either by a junction addition, drainage area-weighted interpolation, or with a new HEC-HMS model.