



May 19, 2022

**TO:** Flood Authority Members

**FROM:** Scott Boettcher, Staff

**SUBJECT:** Flood Warning System

The following will be discussed at today's Flood Authority meeting. Please feel free to contact me with questions (360/480-6600, [scottb@sbgh-partners.com](mailto:scottb@sbgh-partners.com)).

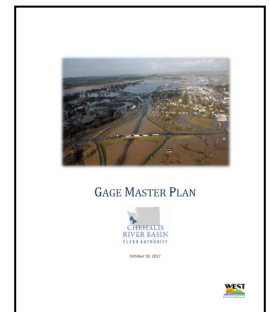
**1. Webcam Relocation from Lower Satsop to Wishkah (Heron St. Bridge)**

- Done. See [here](#).
- Next = Gage boards (River, Tide) →



**2. Update Basin Gage Plan to Set Investment Priorities (2022 to 2027)**

- 2017 Basin Gage Plan set investment priorities (2017 to 2022)
- Gaging "needs" and "requests" are mounting:
  - New = China, Salzer creeks; Skookumchuck river, above Pe Ell; Low flow gaging; River forecasting; Snow gaging; Gage relocations; Etc.
  - Integrate flood and fish gaging (high-flow and low-flow).
  - USGS (Table 1) – Is local cost-share funding in alignment with gaging priorities?



**3. Current Flood Warning System Actions/Needs of the Flood Authority**

- Webcam Relocation** cost is \$3,952.35. Lewis County (fiscal agent) projects budget surplus of ~\$20,000 due to State Audit cancellation. WEST's Lewis County contract should be amended to cover this cost with this surplus.
- Update Basin Gage Plan** cost is \$50K to \$75K, and should be prioritized to set investment gaging priorities for the next five years (2022-2027).

Table 1 – USGS Gages (USGS Funded Solely; Remainder with Local Partners)

Gage#	GageName	Stage	Discharge	Precip	AirTemp	Turbidity	Operation
<a href="#">12020000</a>	CHEHALIS RIVER NEAR DOTY, WA	x	x	x	x		All Year
<a href="#">12021800</a>	CHEHALIS RIVER NEAR ADNA, WA	x	x				All Year
<a href="#">12025000</a>	NEWAUKUM RIVER NEAR CHEHALIS, WA	x	x				All Year
<a href="#">12025700</a>	SKOOKUMCHUCK RIVER NEAR VAIL, WA	x	x				All Year
<a href="#">12026150</a>	SKOOKUMCHUCK RIVER BL BLDY RUN CR NR CENTRALIA, WA	x	x	x			All Year
<a href="#">12026400</a>	SKOOKUMCHUCK RIVER NEAR BUCODA, WA	x	x	x			All Year
<a href="#">12027500</a>	CHEHALIS RIVER NEAR GRAND MOUND, WA	x	x				All Year
<a href="#">12031000</a>	CHEHALIS RIVER AT PORTER, WA	x	x			x	All Year
<a href="#">12035000</a>	SATSOP RIVER NEAR SATSOP, WA	x	x			x	All Year
<a href="#">12035400</a>	WYNOOCHEE RIVER NEAR GRISDALE, WA	x	x				All Year
<a href="#">12036000</a>	WYNOOCHEE RIVER ABOVE SAVE CREEK NEAR ABERDEEN, WA	x	x				All Year
<a href="#">12037400</a>	WYNOOCHEE RIVER ABOVE BLACK CREEK NR MONTESANO, WA	x	x			x	All Year
<a href="#">12035100</a>	CHEHALIS RIVER NEAR MONTESANO, WA	x					All Year
<a href="#">12036400</a>	SCHAFFER CREEK NEAR GRISDALE, WA	x					All Year
<a href="#">12020525</a>	ELK CREEK BELOW DEER CREEK NEAR DOTY, WA	x	x				Seasonally
<a href="#">12020800</a>	SOUTH FORK CHEHALIS RIVER NEAR WILDWOOD, WA	x	x	x			Seasonally
<a href="#">12024000</a>	SOUTH FORK NEWAUKUM RIVER NEAR ONALASKA, WA	x	x	x			Seasonally
<a href="#">12024400</a>	NF NEWAUKUM RIVER ABOVE BEAR CREEK NEAR FOREST, WA	x	x	x			Seasonally
<a href="#">12039005</a>	HUMPTULIPS RIVER BELOW HWY 101 NR HUMPTULIPS, WA	x	x				Seasonally
<a href="#">12025100</a>	CHEHALIS RIVER AT WWTP AT CHEHALIS, WA	x		x			Seasonally
<a href="#">12028060</a>	CHEHALIS RIVER NEAR ROCHESTER, WA	x					Seasonally
<a href="#">12035450</a>	BIG CREEK NEAR GRISDALE, WA	x					Seasonally
Source -->	<a href="https://waterdata.usgs.gov/wa/nwis/current/?type=flow&amp;group%20Key=basin%20cd">https://waterdata.usgs.gov/wa/nwis/current/?type=flow&amp;group%20Key=basin%20cd</a>						

- 22 gages in larger Chehalis Basin (Chehalis, Wynoochee, Humptulips drainages).
- 14 operate year-round; 8 seasonally.
- All 22 gages measure water level.
- 5 measure stage only, the other 17 report discharge.
- 7 precipitation gages, 1 air temperature sensor, 3 turbidity sensors.