

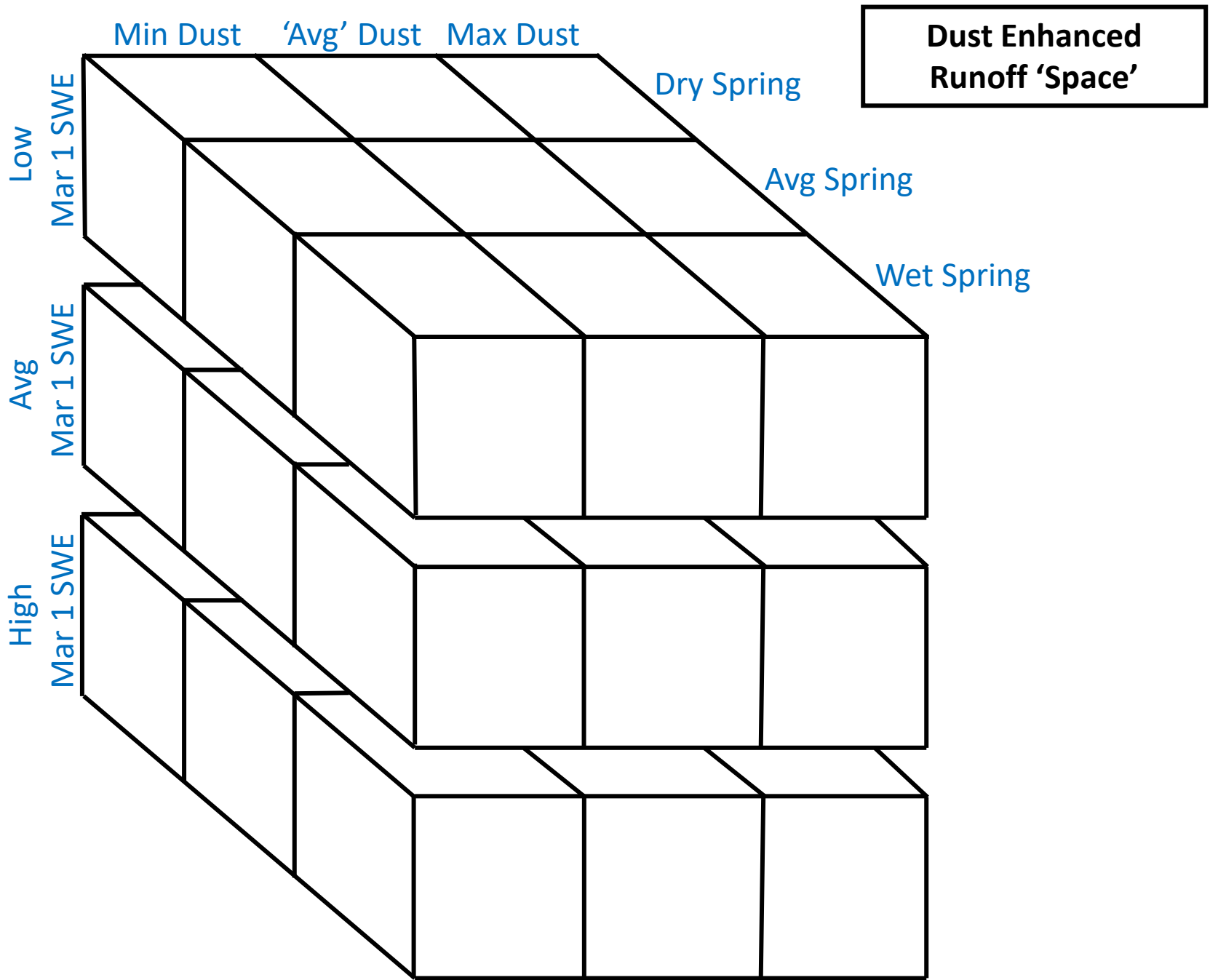
Colorado Dust-on-Snow Program

WY 2023 Dust Enhanced Runoff Classification

Upper Colorado River Watershed – Fraser River
as of: March 1, 2023 Update

for:

Berthoud Summit Snotel, Fraser River at Upper Station



**CODOS and Other Selected SNOTEL Sites
% 1991-2020 Median March 1 SWE**

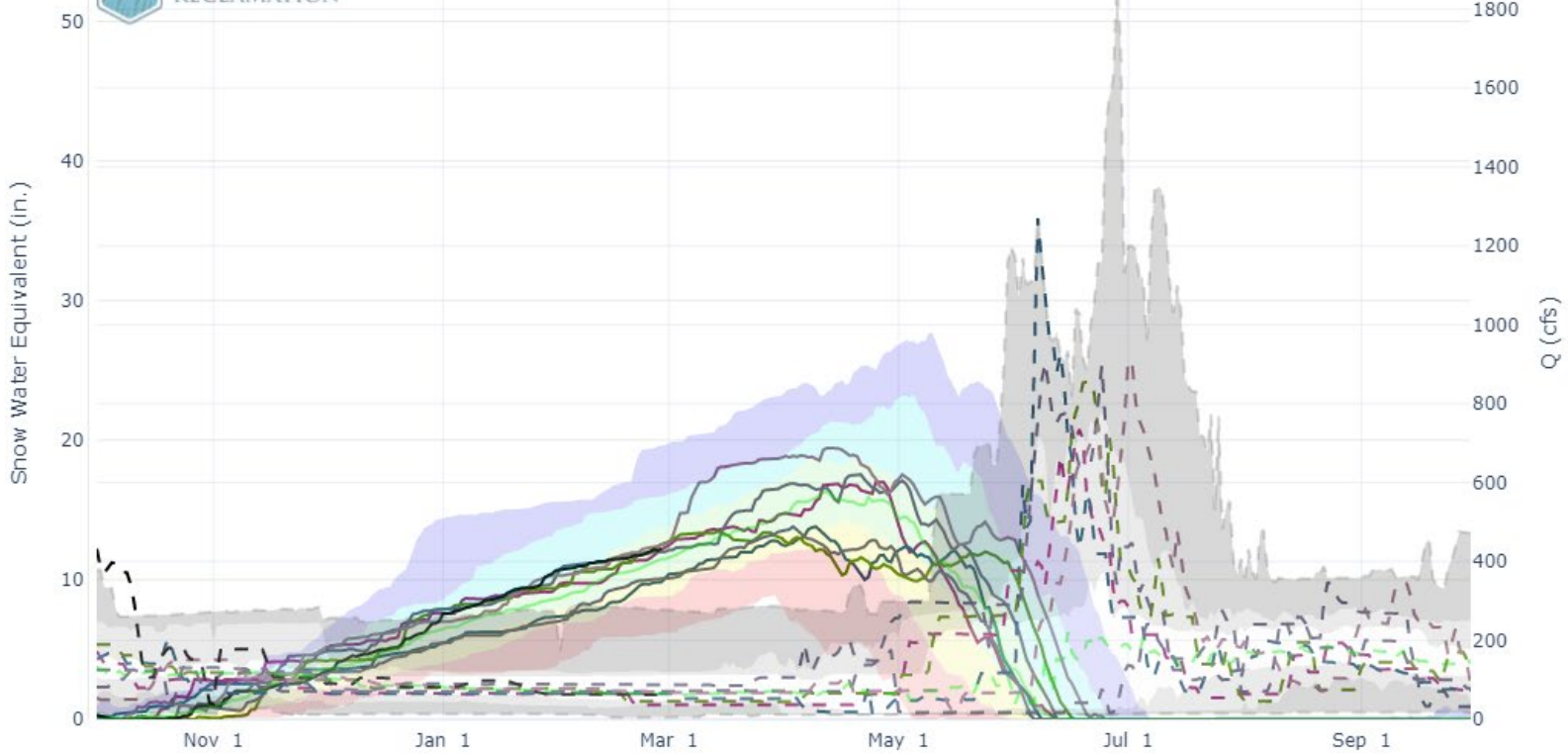
SNOTEL Site	Median	Actual	% Median SWE	CODOS Classification based on 1991-2020
	SWE	SWE	1991-2020	
	March 1	March 1	March 1	
	1991-2020	WY 2023	WY 2023	
Red Mtn Pass	17.1	21.4	125%	High
Slumgullion	10.6	10.0	94%	Average
Upper San Juan	23.9	30.0	126%	High
Wolf Creek Summit	24.4	31.6	130%	High
Beartown	16.6	21.3	128%	High
Lizard Head	11.8	15.9	135%	High
Park Cone	8.2	9.5	116%	High
Schofield Pass	24.2	32.1	133%	High
McClure Pass	13.4	19.9	149%	High
Independence Pass	13.0	12.5	96%	Average
Hoosier Pass	10.4	9.5	91%	Average
Grizzly Peak	13.6	12.4	91%	Average
Berthoud Summit	13.8	14.1	102%	Average
Willow Creek Pass	10.6	13.1	124%	High
Rabbit Ears Pass	19.6	23.7	121%	High
Mesa Lakes	12.3	15.6	127%	High

Fraser River Watershed				
Berthoud Summit Snotel				
		Dry Spring	Avg Spring	Wet Spring
LOW March 1 SWE	Min Dust			
	Avg Dust	2012	2018	
	Max Dust		2022	2013
AVG March 1 SWE	Min Dust		2007, 2015	2016
	Avg Dust		2021	2019
	Max Dust		2010	
HIGH March 1 SWE	Min Dust	2020	2017	
	Avg Dust		2008, 2014	2011
	Max Dust	2006	2009	

Snow to Flow Relationship for Williams Fk bl Williams Fk Reservoir

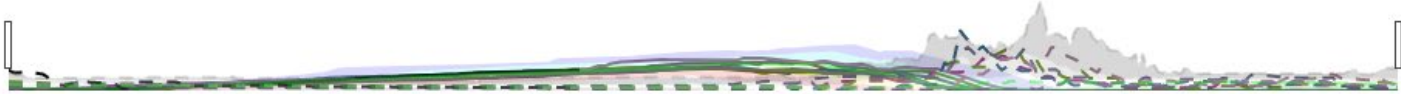


Jan Apr July WY



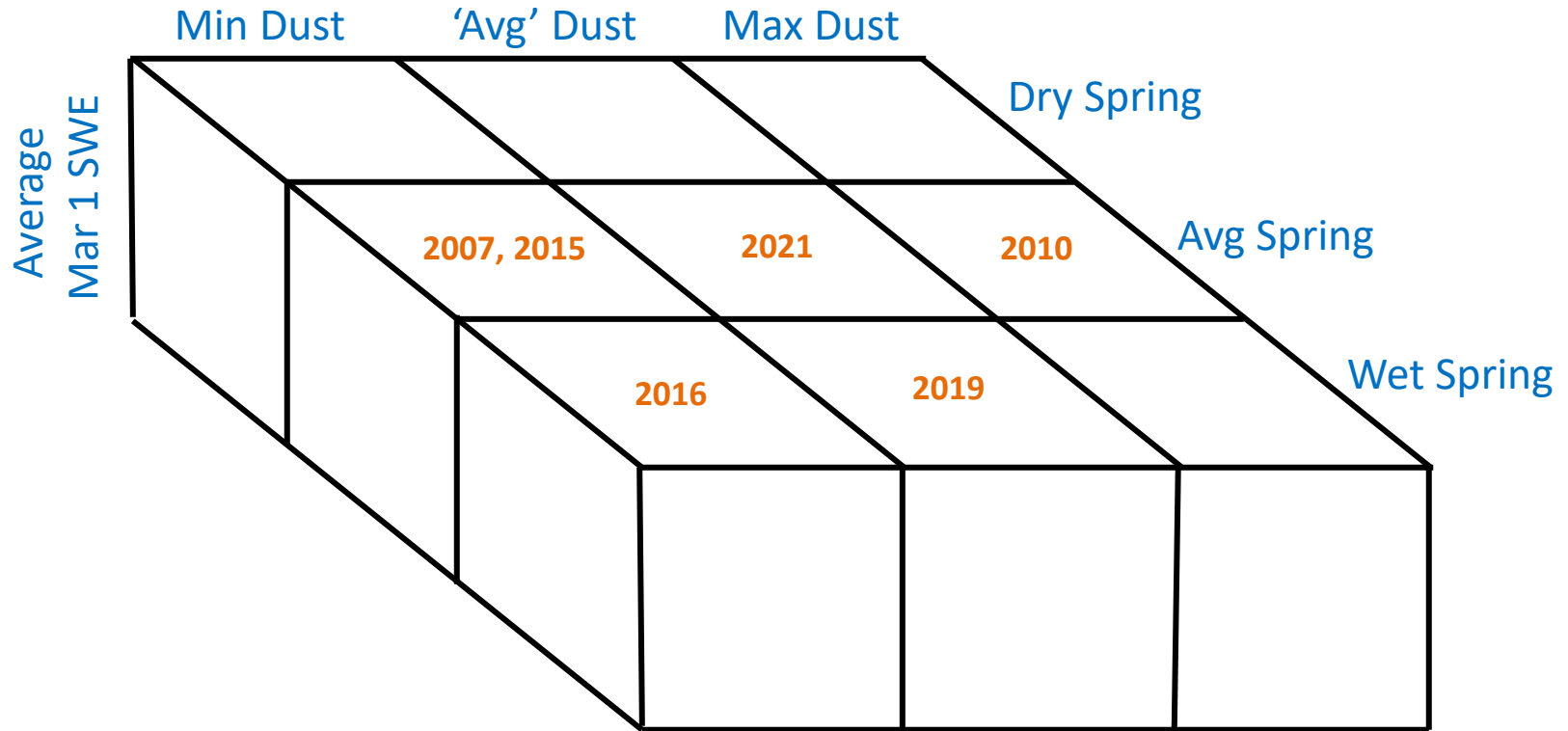
- Station List
- Median
 - Median
 - Q Stats
 - SWE Stats
 - 2023 (3 sites)
 - 2022 (3 sites)
 - 2021 (3 sites)
 - 2020 (3 sites)
 - 2019 (3 sites)
 - 2018 (3 sites)
 - 2017 (3 sites)
 - 2016 (3 sites)
 - 2015 (3 sites)
 - 2014 (3 sites)
 - 2013 (3 sites)
 - 2012 (3 sites)
 - 2011 (3 sites)
 - 2010 (3 sites)
 - 2009 (3 sites)
 - 2008 (3 sites)
 - 2007 (3 sites)
 - 2006 (3 sites)
 - 2005 (3 sites)
 - 2004 (3 sites)
 - 2003 (3 sites)
 - 2002 (3 sites)

Linear Scale
Log Scale



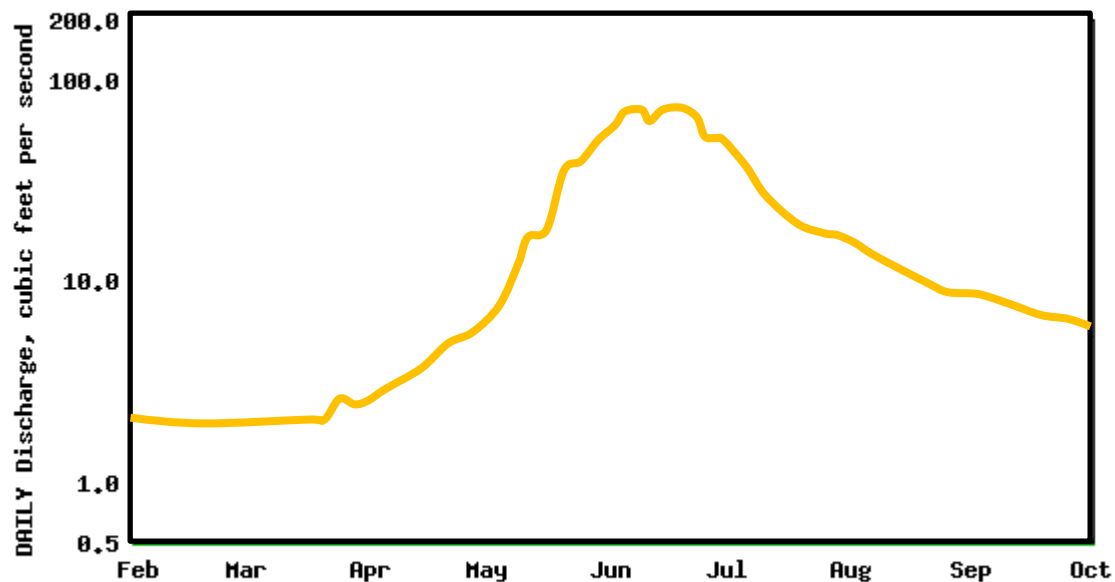
* # of sites does not meet basin threshold. Data from this year will not for use in calculation of statistics
Updated: "Tuesday, Feb 28, 2023 @ 04 AM PST"

Upper Colorado River Watershed – Berthoud Summit Snotel, Fraser River
WY 2023 = Average March 1 SWE



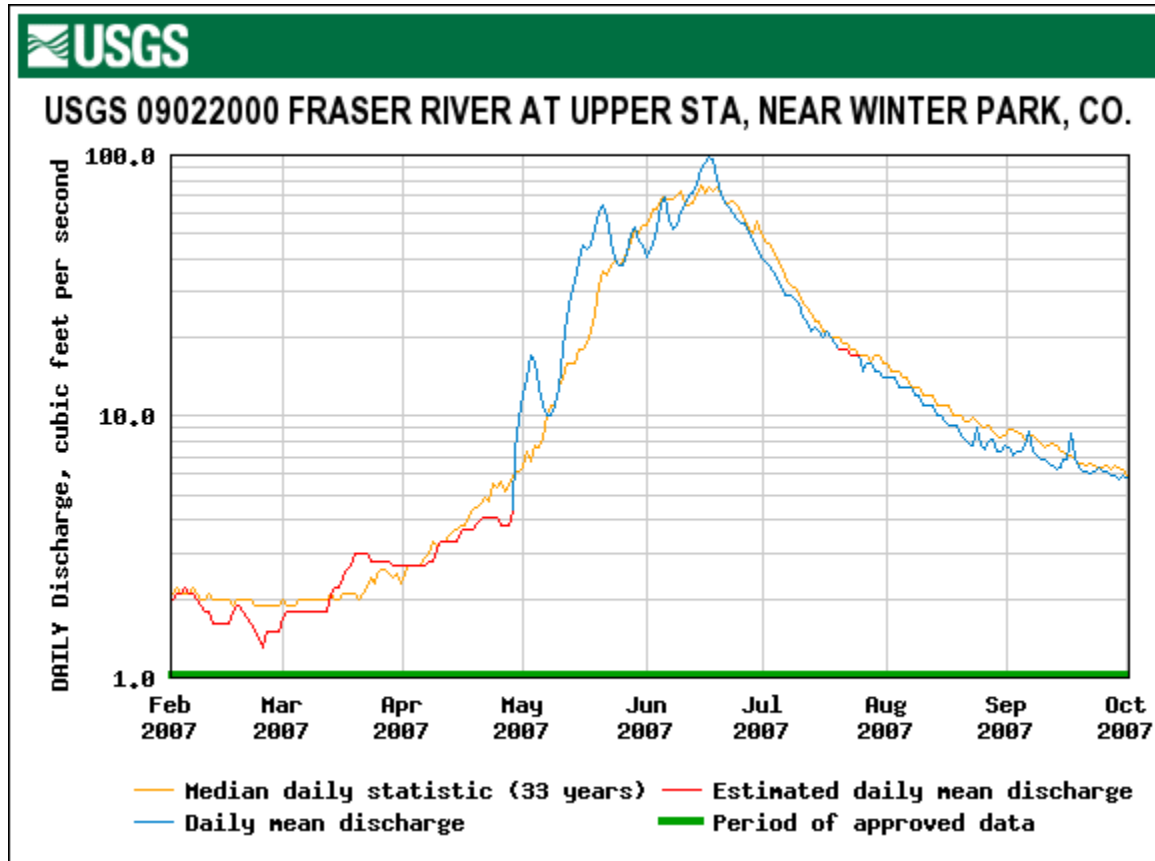


USGS 09022000 FRASER RIVER AT UPPER STA, NEAR WINTER PARK, CO.

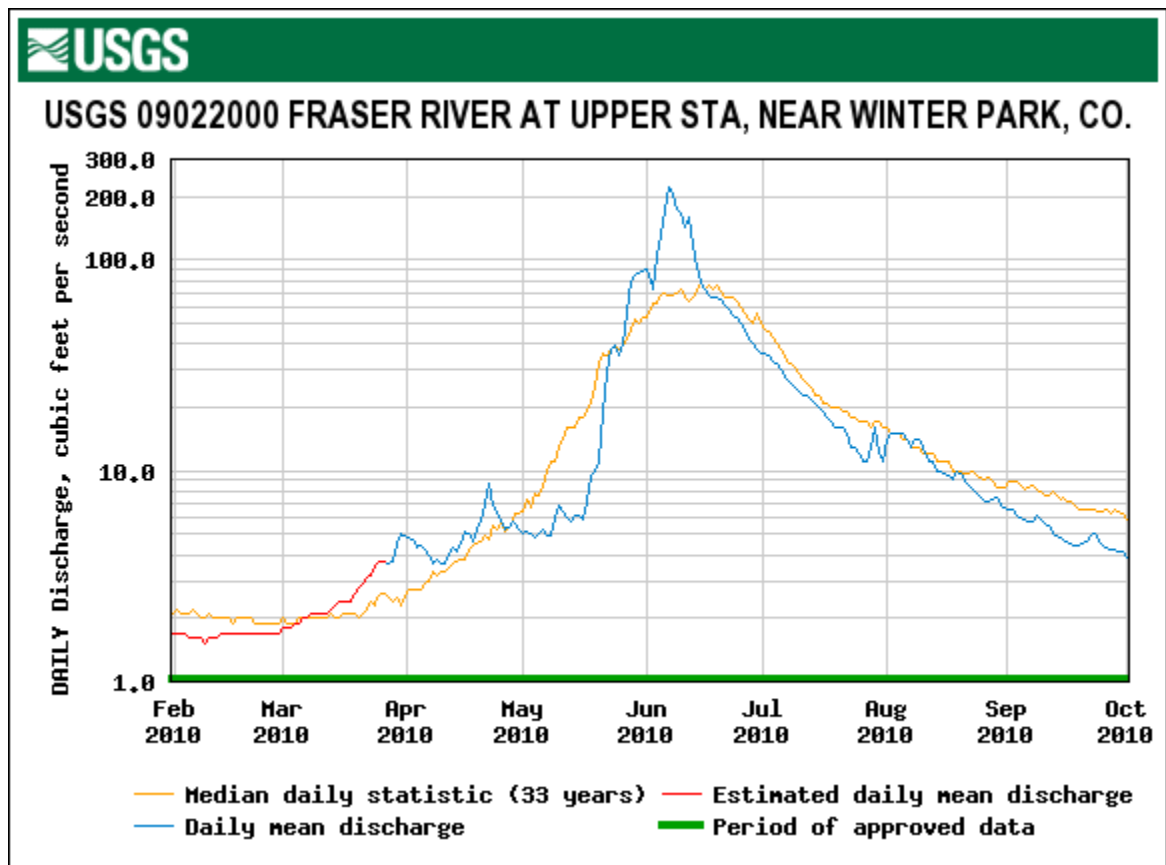


— Median daily statistic (33 years) — Estimated daily mean discharge
— Daily mean discharge — Period of approved data

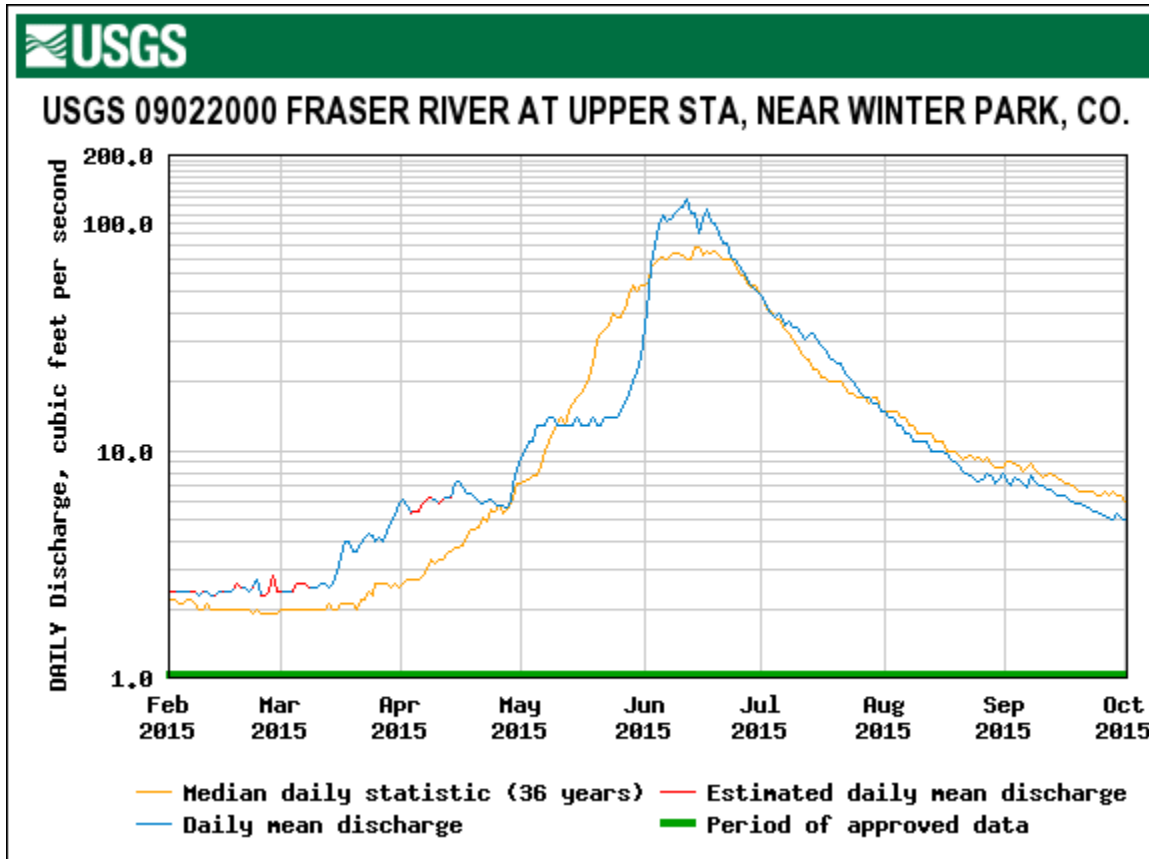
WY 2007: Avg March 1 SWE, Avg Spring, Min+ Dust



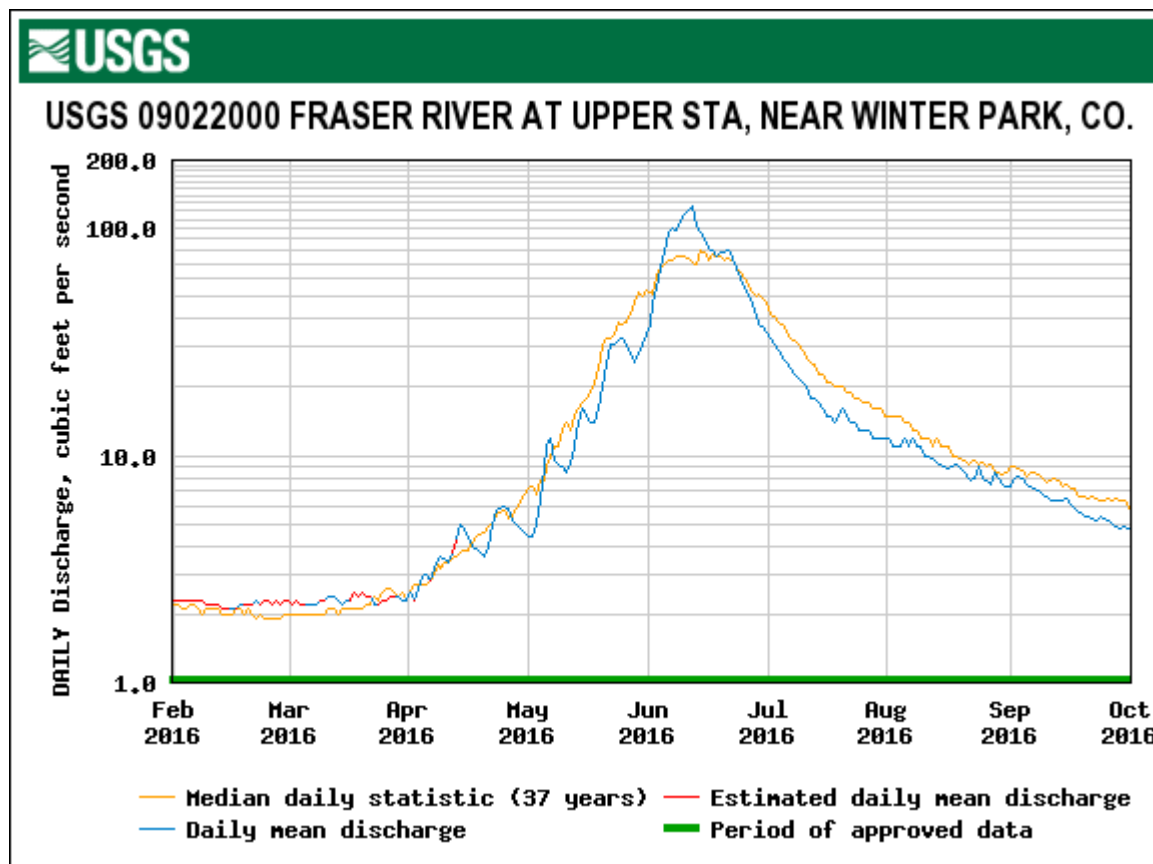
WY 2010: Avg March 1 SWE, Avg Spring, Max- Dust



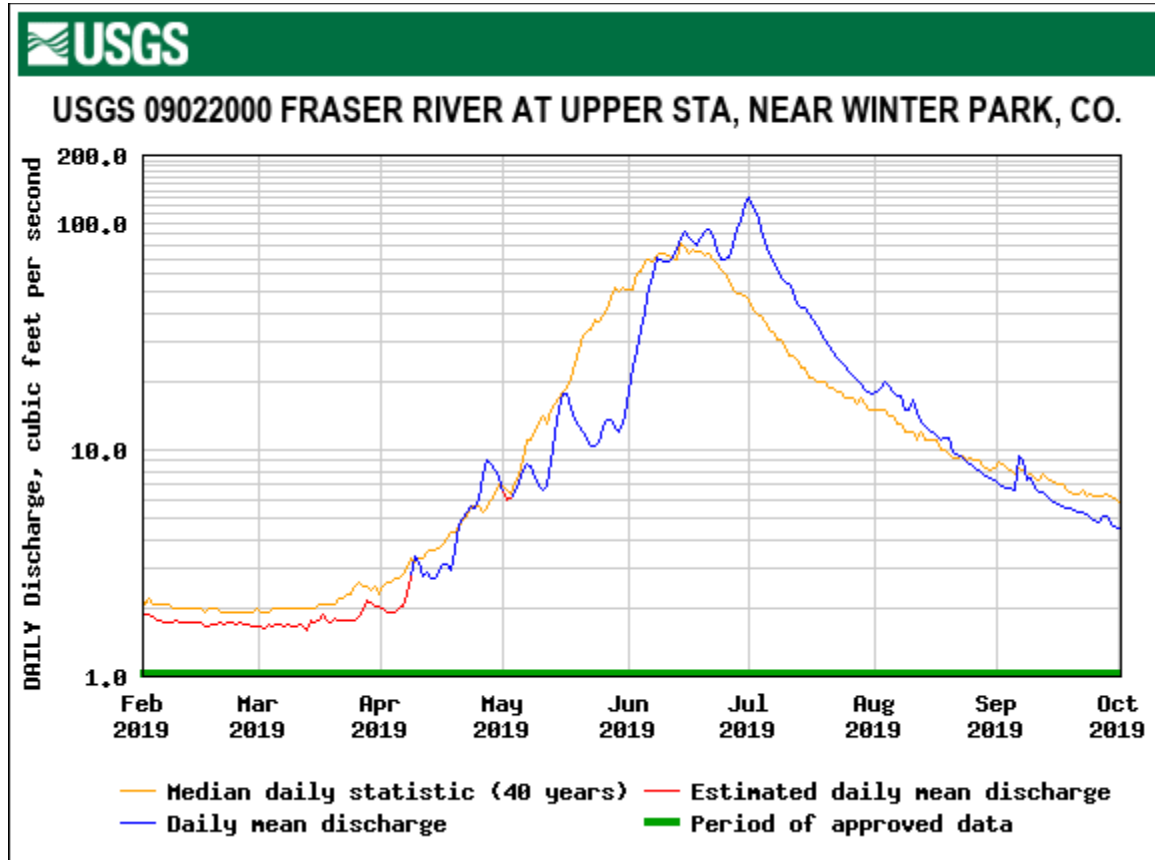
WY 2015: Avg March 1 SWE, Avg Spring, Min Dust



WY 2016: Avg March 1 SWE, Wet Spring, Min Dust



WY 2019: High March 1 SWE, High Spring, Avg Dust



WY 2021: Avg March 1 SWE, Avg Spring, Avg Dust

