

Colorado Dust-on-Snow Program

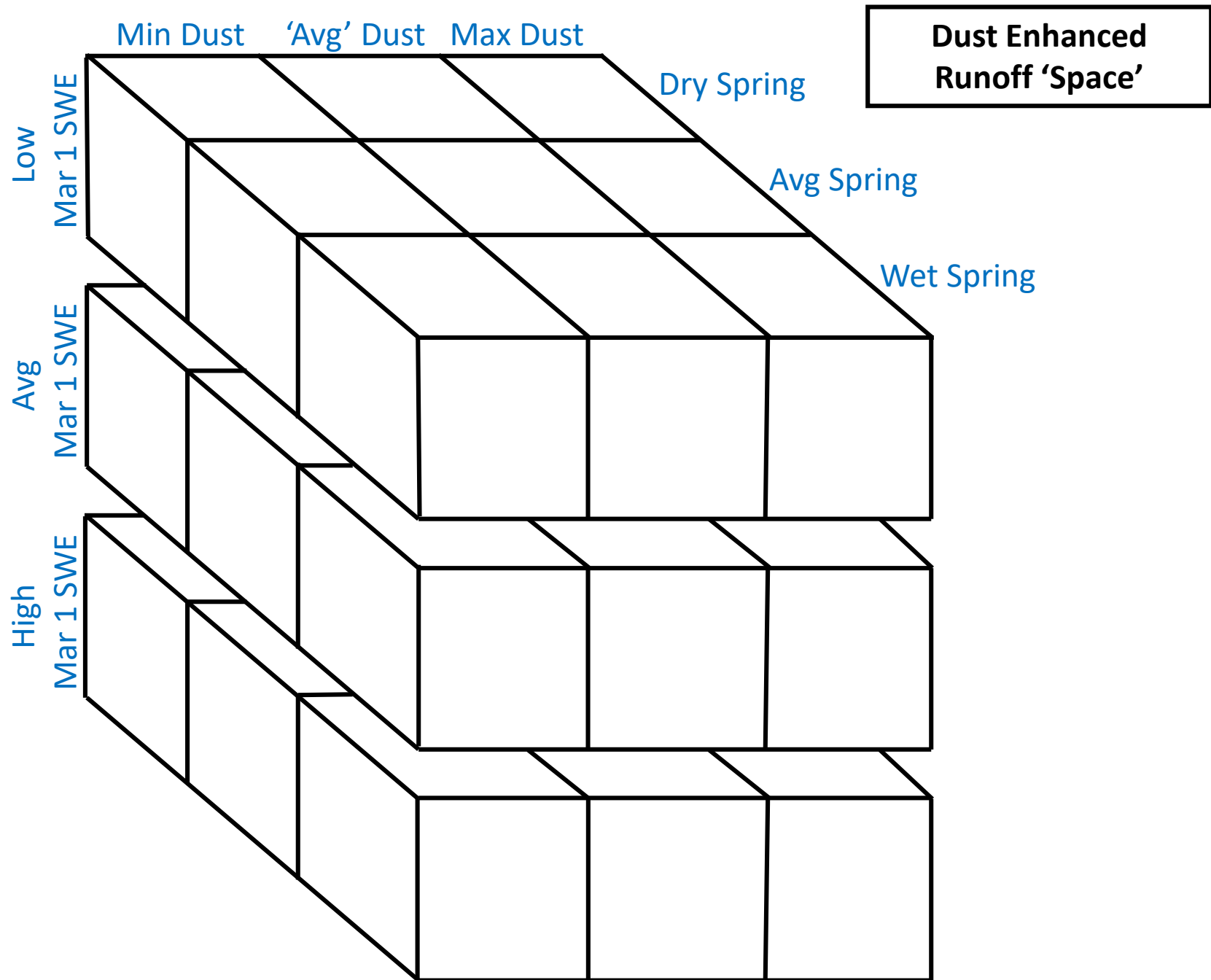
WY 2019 Dust Enhanced Runoff Classification

Rio Grande River Watershed

as of: March 1, 2019 Update

for:

Wolf Creek Summit, Beartown Snotels, Rio Grande at Del Norte



CODOS and Other Selected SNOTEL Sites				
% 1981-2010 Median March 1 SWE				
	Median	Actual	% Median	CODOS
	SWE	SWE	SWE	March 1
	March 1	March 1	March 1	SWE
SNOTEL Site	1981-2010	WY 2019	WY 2019	Classification
Red Mtn Pass	17.5	22.8	130%	High
Slumgullion	10.4	13.9	134%	High
Upper San Juan	26.0	26.2	101%	Average
Wolf Creek Summit	24.9	30.5	122%	High
Beartown	18.7	22.1	118%	High
Lizard Head	12.2	14.1	116%	High
Park Cone	8.3	8.4	101%	Average
Schofield Pass	25.2	28.3	112%	High
McClure Pass	13.5	14.2	105%	Average
Independence Pass	12.7	13.7	108%	Average
Hoosier Pass	10.9	14.1	129%	High
Grizzly Peak	13.2	15.3	116%	High
Berthoud Summit	13.9	13.7	99%	Average
Willow Creek Pass	9.5	11.0	116%	High
Rabbit Ears Pass	19.1	19.5	102%	Average
Mesa Lakes	12.7	15.1	119%	High

Rio Grande Watershed

Wolf Creek Summit Snotel

		Dry Spring	Avg Spring	Wet Spring
LOW March 1 SWE	Min Dust			2015
	Avg Dust	2018	2014	
	Max Dust	2013		2006
AVG March 1 SWE	Min Dust		2007	
	Avg Dust	2012	2016	
	Max Dust			
HIGH March 1 SWE	Min Dust			
	Avg Dust	2008		2011
	Max Dust	2010	2009	

Dry Spring	Avg Spring	Wet Spring
2008	2007	2006
2010	2009	2011
2012	2014	2015
2013	2016	
2018		

Low Swe	Avg Swe	High SWE
2006	2007	2008
2013	2012	2009
2014	2016	2010
2015		2011
2018		

Min Dust	Avg Dust	Max Dust
		2006
	2007	
	2008	
		2009
		2010
	2011	
	2012	
		2013
	2014	
2015		
	2016	
	2018	

Mar 1 SWE
1981-
2010

	Median	Actual	%
2006	24.9	10.1	41%
2007	24.9	23.8	96%
2008	24.9	43.6	175%
2009	24.9	27.6	111%
2010	24.9	29.8	120%
2011	24.9	27.7	111%
2012	24.9	25.4	102%
2013	24.9	19.4	78%
2014	24.9	19.5	78%
2015	24.9	15.8	63%
2016	24.9	26.1	105%
2017	24.9	36.8	148%
2018	24.9	18.8	76%

Rio Grande Watershed

Beartown Snotel

		Dry Spring	Avg Spring	Wet Spring
LOW March 1 SWE	Min Dust		2007	2015
	Avg Dust	2012, 2018	2014, 2016	
	Max Dust	2010, 2013	2006	
AVG March 1 SWE	Min Dust			
	Avg Dust			2011
	Max Dust		2009	
HIGH March 1 SWE	Min Dust			
	Avg Dust	2008, 2017		
	Max Dust			

Dry Spring	Avg Spring	Wet Spring
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2008 2006 2011
 2010 2007 2015
 2012 2009
 2013 2014
 2017 2016

Mar 1 SWE

2018

1981-2010

Low SWE	Avg SWE	High SWE
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Median

Actual

%

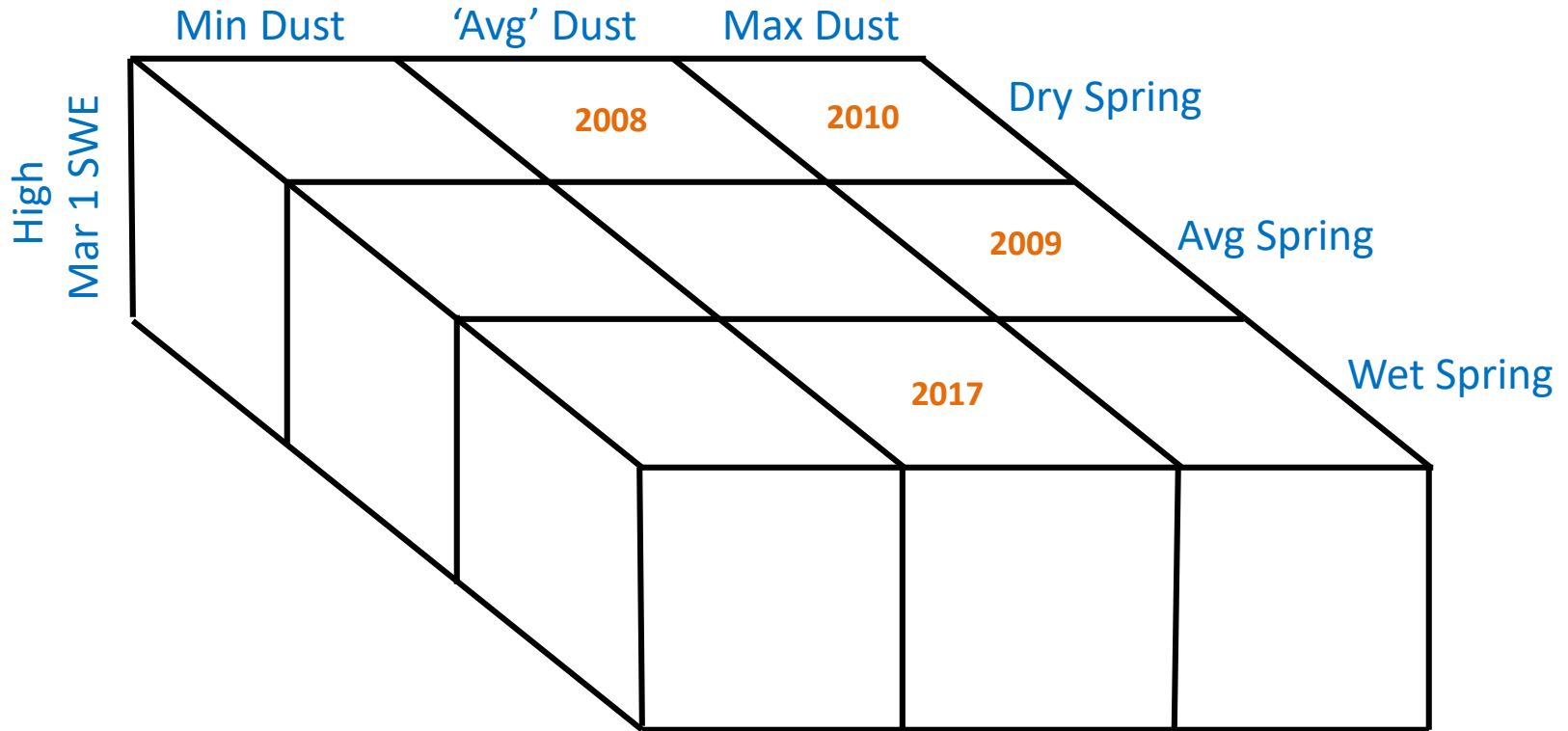
2006 2009 2008
 2007 2011 2017
 2010
 2012
 2013
 2014
 2015
 2016
 2018

2006 18.7 8.9 48%
 2007 18.7 15.2 81%
 2008 18.7 26.8 143%
 2009 18.7 19.3 103%
 2010 18.7 16.6 89%
 2011 18.7 18.8 101%
 2012 18.7 15.7 84%
 2013 18.7 13.7 73%
 2014 18.7 16.7 89%
 2015 18.7 13.3 71%
 2016 18.7 16.4 88%
 2017 18.7 25.6 137%
 2018 18.7 11.0 59%

Min Dust	Avg Dust	Max Dust
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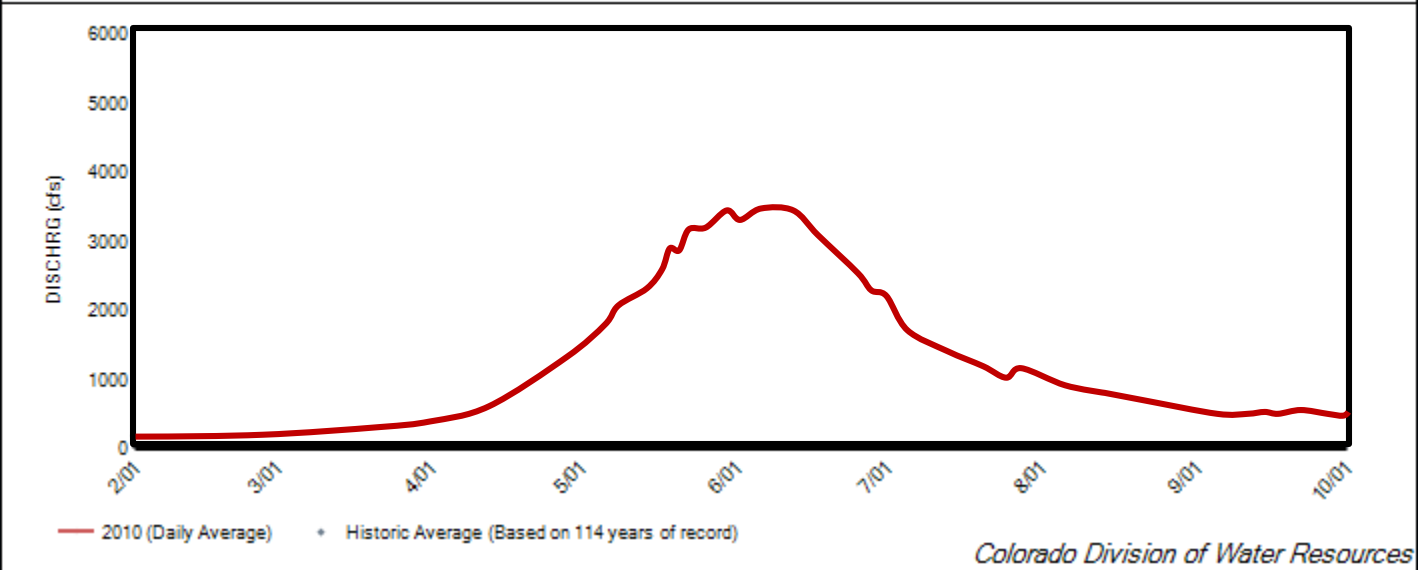
2006
 2007
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 2015
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 2017
 2018

Rio Grande River Watershed – Wolf Creek Summit Snotel
WY 2019 = High March 1 SWE

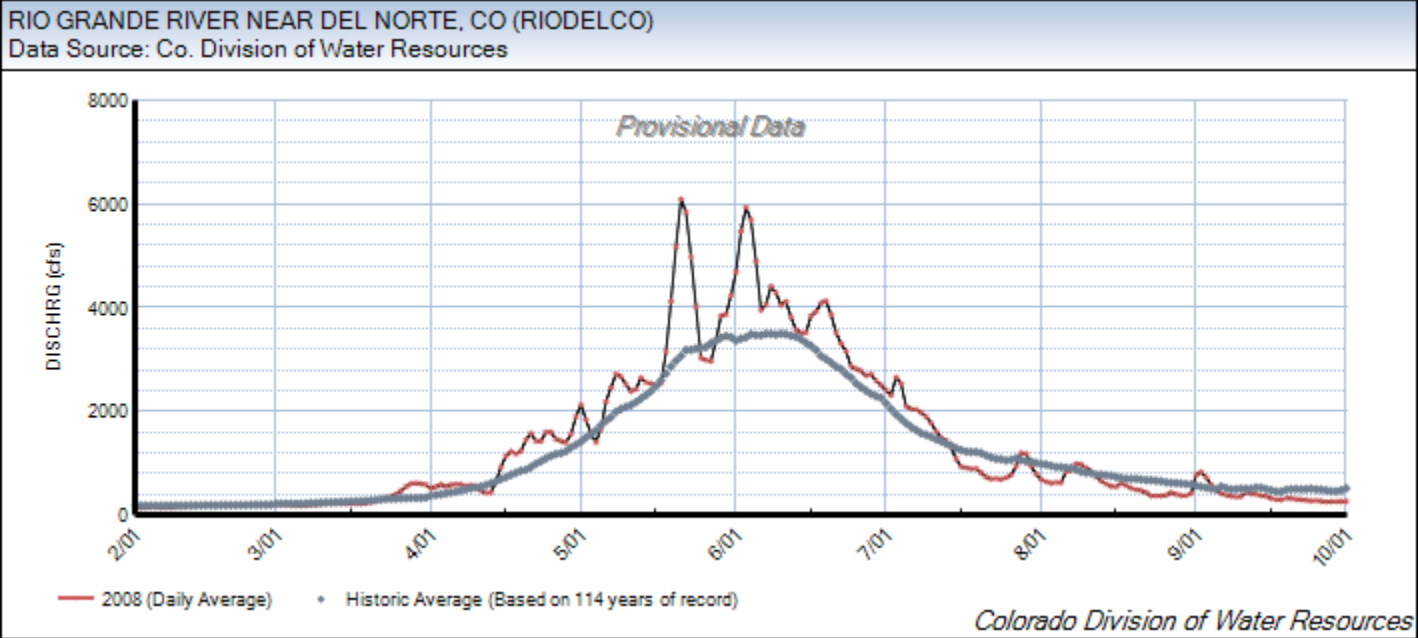


RIO GRANDE RIVER NEAR DEL NORTE, CO (RIODELCO)

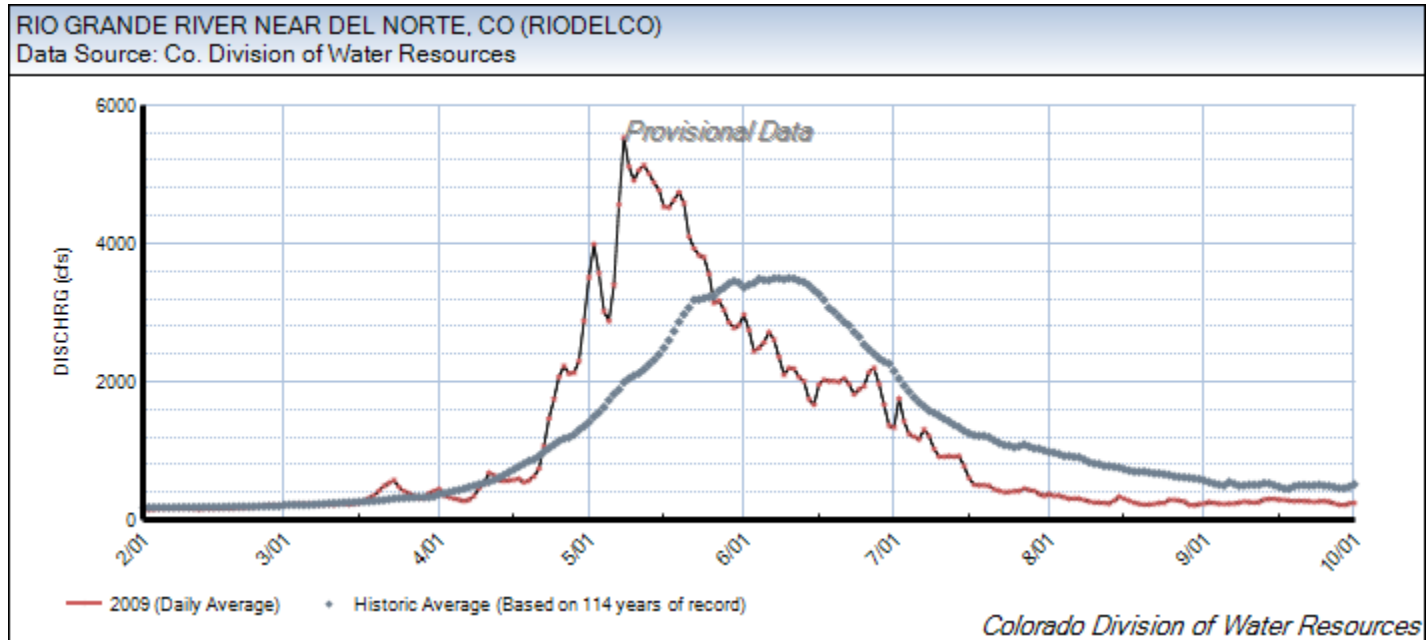
Data Source: Co. Division of Water Resources



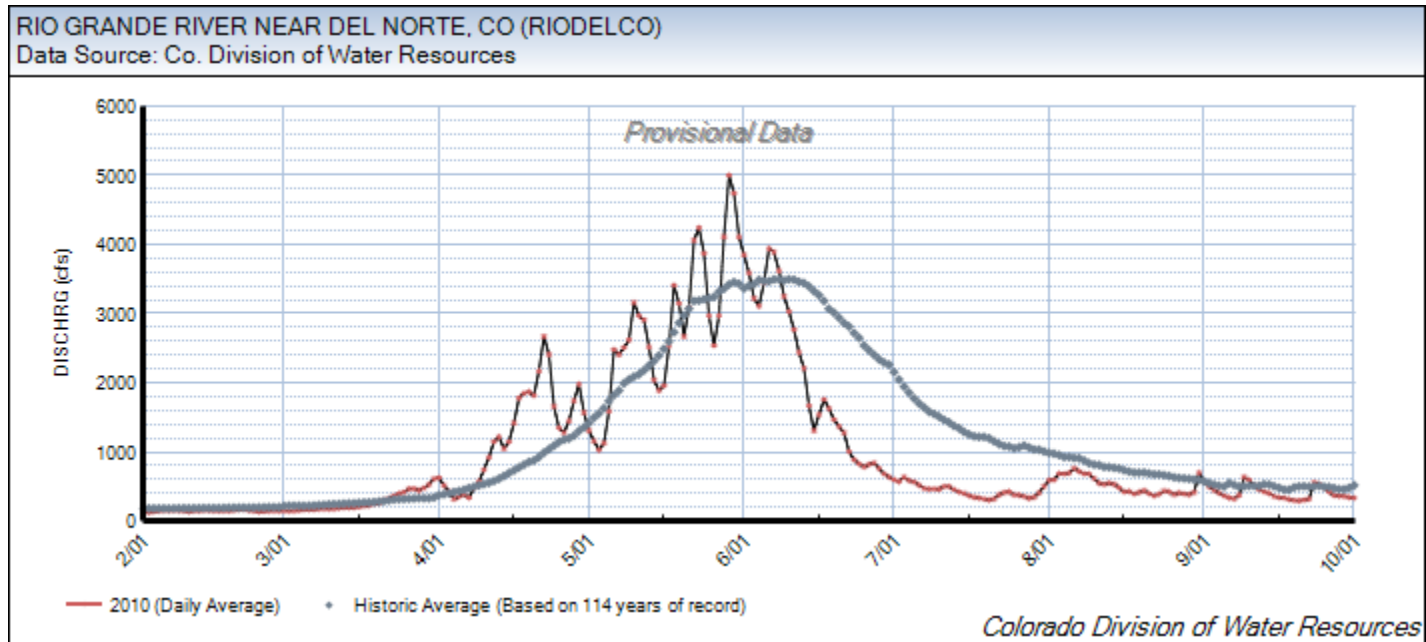
WY 2008: High March 1 SWE, Dry Spring, Avg Dust



WY 2009: Avg March 1 SWE, Avg Spring, Max Dust

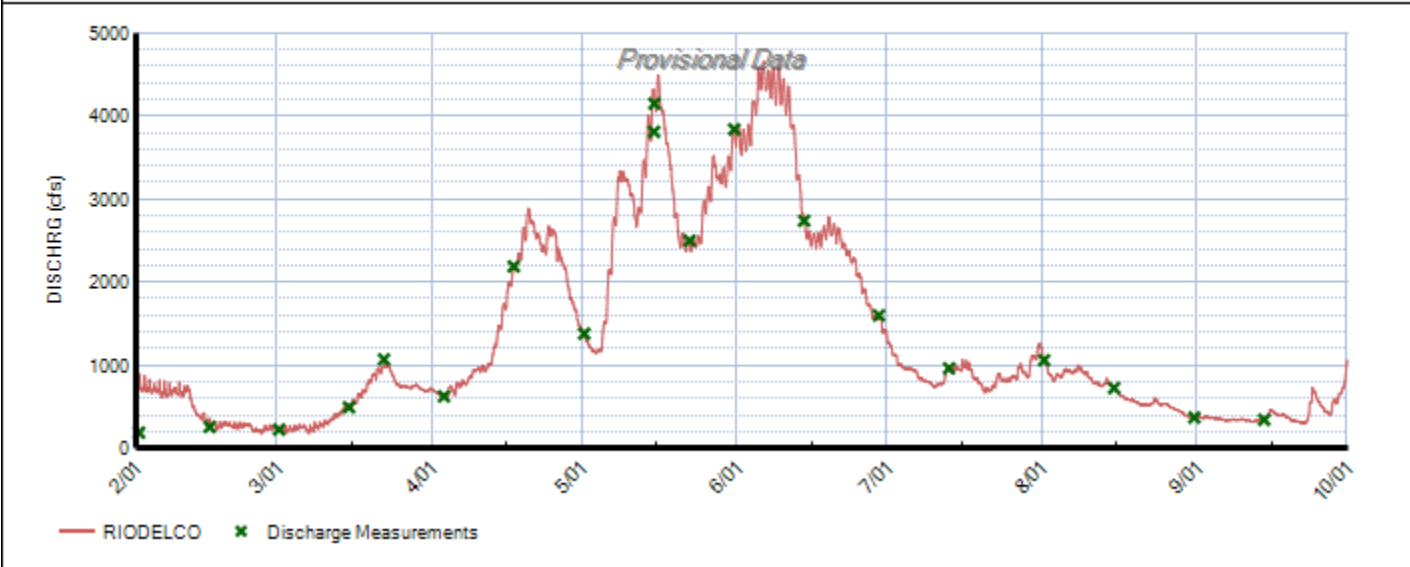


WY 2010: Low March 1 SWE, Dry Spring, Max- Dust

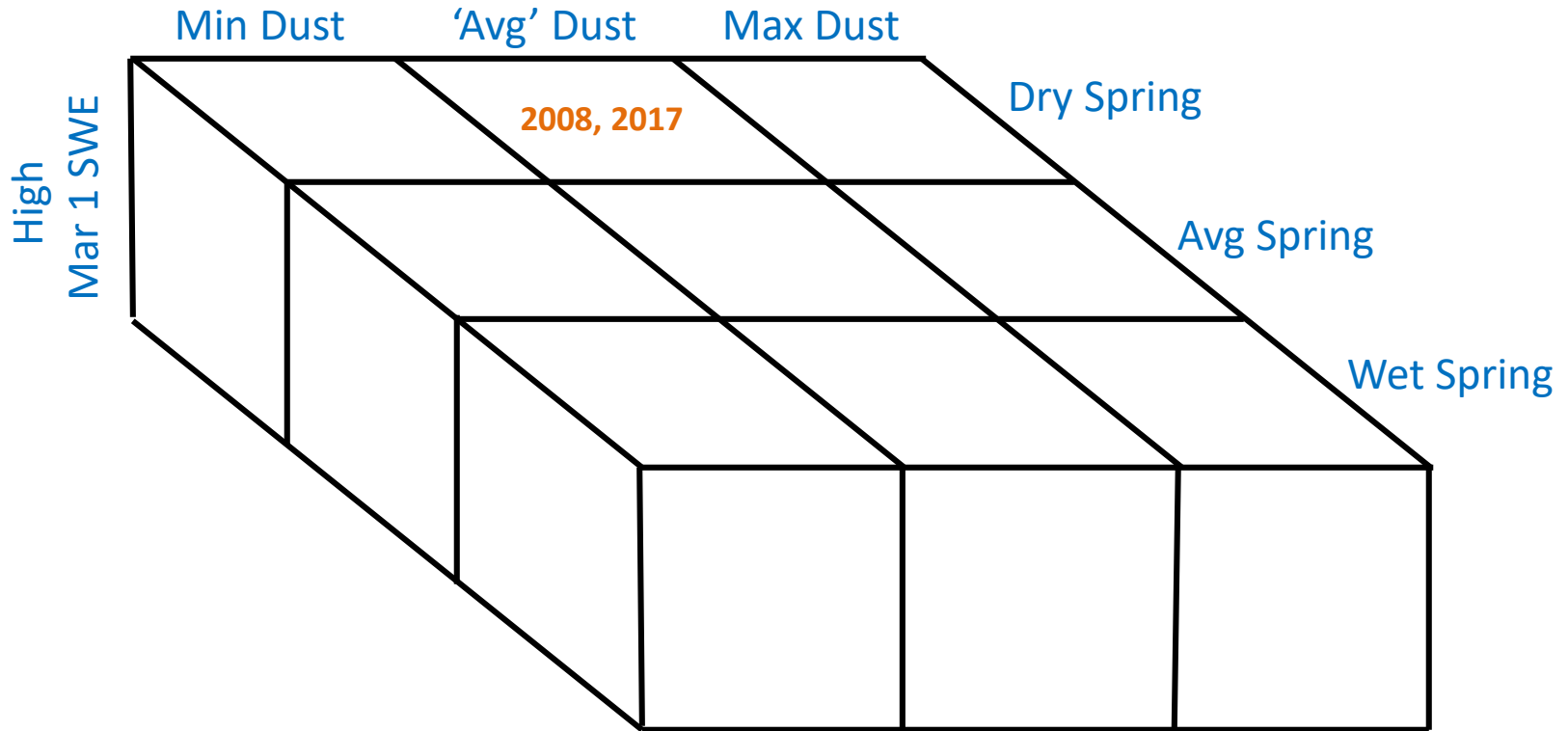


WY 2017: High March 1 SWE, Dry Spring, Avg Dust

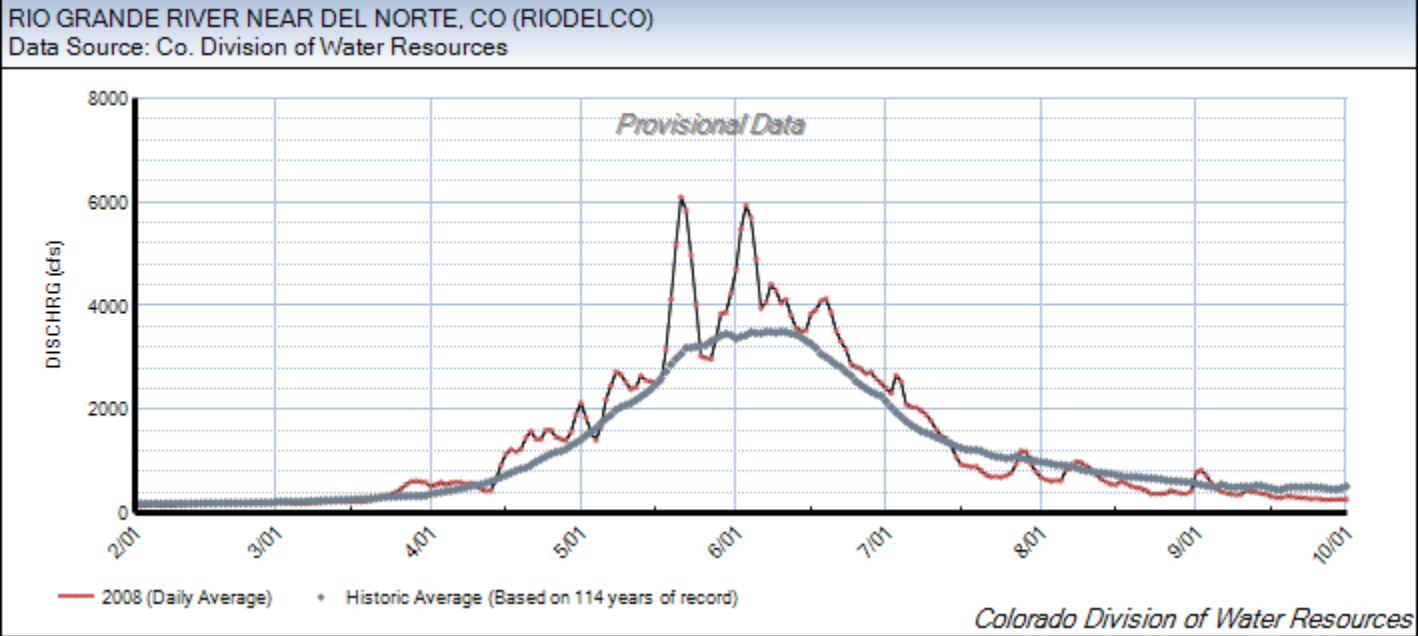
RIO GRANDE RIVER NEAR DEL NORTE, CO (RIODELCO)
Data Source: Co. Division of Water Resources



Rio Grande River Watershed – Beartown Snotel
WY 2019 = High March 1 SWE



WY 2008: High March 1 SWE, Dry Spring, Avg Dust



WY 2017: High March 1 SWE, Dry Spring, Avg Dust

RIO GRANDE RIVER NEAR DEL NORTE, CO (RIODELCO)
Data Source: Co. Division of Water Resources

