

Swamp Angel Study Plot Dust Mass Loading Data - WY 2013

From 0.5m2 samples collected by CSAS, processed by USGS Denver

Dust Event	Date	Gross Weight 0.5 m2 Sample (grams)	Estimated Mass Loading Grams/m2	Notes
D1	November 9, 2012	0.6723	1.345	Discrete sample (reddish)
D2	February 8/9, 2013	0.6894	1.379	Discrete sample, substantial event with very little veg debris (brownish)
D3	March 7/8, 2013	0.0850	0.170	Discrete sample, very weak event mixed with veg debris; (greyish)
D4	March 17/18, 2013	0.1951	0.390	Discrete sample by AT (grey)
D5	March 21/22, 2013	0.6025	1.205	Discrete sample by CL (red-brown)
D6	April 8, 2013	23.7302	47.460	Discrete sample, major event, very brown, very little veg debris
D7	April 13-14, 2013	1.5988	3.198	Discrete sample
D8	April 15-17, 2013	4.5765	9.153	Discrete sample, more red and brown
D9	April 30, 2013	no sample	na	No sample - insignificant, dust-on-dust (heavy haze) event
D10	May 23, 2013	no sample	na	Sampling infeasible due to SAG at SASP - very minor dust-on-dust event
Season Total			64.300	Total of discrete samples of measured events
D4-D9 merged	Collected 5/13/2013	25.0571	50.114	"All layers merged" sample that did not include D1 or D2, may have included D3
D2		0.6723	1.345	
D1		0.6894	1.379	
			52.838	
Discrete samples total less (ALM+D1+D2)			11.462	Mass difference, 18% loss probably due to melt leaching and infiltration of "fines"