

Swamp Angel Study Plot Dust Mass Loading Data - WY 2012

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

Dust Event	Date	Visually Estimated Organic Content	Gross Weight 0.5 m2 Sample (grams)	Estimated Mass Loading Grams/m2	Notes
D1	5-Nov-11	<10%	0.2684	0.537	Discrete sample
D2	13-Nov-11	"lots"	0.4599	0.920	Discrete sample, 0.2931 grams of pine needles and seed pods removed before 'gross weight'
D3	31-Dec-11	"mostly"	0.0670	0.134	Discrete samples, lots of dark, large, dark (black) organic particles
D4	6-Mar-12	not char	0.1687	0.337	Discrete sample of typical brown dust; began dry on slick m/f crust overnight and w/snow next day
D5	18-Mar-12	not char	1.6387	3.277	Discrete sample of 'wet' event, 'iced tea' color
D6	26-Mar-12	na	na	na	Very minor dust-on-dust event at SBB; discrete sampling infeasible
D7	1-Apr-12	na	na	na	Dust-on-dust at SBB; discrete sampling infeasible
D8	6-Apr-12	na	na	na	Significant dust-on-dust at SBB; skiff new snow onto D8; discrete sampling infeasible
D9	18-May-12	na	na	na	Snow all gone at SASP - sampling infeasible, but was very minor dry event
D10	23-May-12	na	na	na	Snow all gone at SASP - sampling infeasible, but was very minor dry event
D11	25-May-12	na	na	na	Snow all gone at SASP - sampling infeasible, but was very minor dry event
D12	26-May-12	na	na	na	Snow all gone at SASP - sampling infeasible, but was major dry event, perhaps largest of season
D4-D8 merged <i>Estimated D6,7,8</i>	May 4 sample	na	3.5336	7.067 <i>3.4524</i>	Merged sample of D8-D4 collected May 4; some infiltration losses already incurred <i>Inferred mass, by subtracting measured D4 and D5 events from merged D8-D4 sample</i>
Estimated D1-D8				8.6578	Sum of discretely sampled D1, D2, D3, plus merged D4-D8 sample