

Table 6: Regression coefficients (\pm st.error) of multilinear regression of measured dust concentrations vs. wind speed by quadrant.

Site Name	WD1			WD2			WD3			WD4		
	WS2	WS3	WS4	WS2	WS3	WS4	WS2	WS3	WS4	WS2	WS3	WS4
Badlands Nat. Park		0.438 \pm 0.438			2.272 \pm 0.694		1.590 \pm 0.177					
Bandelier Nat. Monument				10.395 \pm 2.197			6.919 \pm 2.641			6.919 \pm 2.641	0.959 \pm 0.241	14.576 \pm 3.453
Big Bend Nat. Park	9.854 \pm 1.840							11.368 \pm 3.597			1.565 \pm 0.396	
Bliss State Park (TRPA)							0.231 \pm 0.091			0.824 \pm 0.500	5.172 \pm 1.716	
Bosque del Apache					39.278 \pm 8.138			7.924 \pm 1.060				
Bryce Canyon Nat. Park							0.480 \pm 0.146			4.359 \pm 0.331		
Canyonlands Nat. Park	1.266 \pm 0.648						2.836 \pm 0.395	1.992 \pm 0.922			1.718 \pm 0.584	
Chiricahua Nat.Monument				3.318 \pm 0.779			0.863 \pm 0.554	8.596 \pm 2.328				
Columbia River Gorge	3.934 \pm 0.415			1.352 \pm 0.554							0.523 \pm 0.306	1.647 \pm 1.003
Craters of the Moon NM				6.573 \pm 1.213			0.159 \pm 0.077	0.335 \pm 0.126				
Death Valley Nat. Park			3.169 \pm 1.052				1.005 \pm 0.195			0.762 \pm 0.355	9.606 \pm 1.245	
Gila Wilderness	4.818 \pm 3.202						1.279 \pm 0.366					
Great Sand Dunes Nat.Park								5.013 \pm 1.082			1.878 \pm 0.503	3.591 \pm 1.784
Guadalupe Mountains Nat.Park			0.779 \pm 0.349							1.027 \pm 0.341		0.833 \pm 0.286
Hillside						7.360 \pm 2.483	0.737 \pm 0.223			13.158 \pm 3.048		
Hoover Wilderness			4.389 \pm 1.224									
Ike's Backbone							1.187 \pm 0.385					
Joshua Tree				23.497 \pm 2.113								
Kalmiopsis Wilderness	0.605 \pm 0.262											
Lava Beds								1.246 \pm 0.408				
Lostwood Wilderness								0.873 \pm 0.200				
Medicine Lake Wilderness				0.537 \pm 0.228				0.527 \pm 0.352	1.607 \pm 0.526			
Mesa Verde Nat. Park							5.197 \pm 0.499				15.501 \pm 1.765	
Mount Baldy Wilderness							0.410 \pm 0.129			8.776 \pm 4.105		
Pasayten Wilderness											1.875 \pm 0.465	
Puget Sound											2.685 \pm 1.099	
Queen Valley							1.458 \pm 0.597	3.486 \pm 1.929			1.557 \pm 1.056	
Saguaro Nat. Park East		6.013 \pm 3.982		1.830 \pm 0.699						8.045 \pm 4.804	1.391 \pm 0.828	
Saguaro Nat. Park West				1.451 \pm 0.589			1.789 \pm 0.829	11.716 \pm 3.515				
Salt Creek Wilderness			12.235 \pm 2.504	1.061 \pm 0.467			2.032 \pm 0.676	2.621 \pm 0.995	14.896 \pm 1.541			
San Pedro Parks Wilderness				2.650 \pm 0.314				12.262 \pm 3.645				
Sawtooth National Forest							0.973 \pm 0.276					
Sierra Ancha	11.002 \pm 7.416			2.517 \pm 1.027			1.511 \pm 0.708					
Simeonof Wilderness			0.237 \pm 0.121							0.383 \pm 0.172		0.500 \pm 0.168
Spokane Res.				3.236 \pm 1.725	19.664 \pm 10.855			3.79 \pm 1.052				
Theodore Roosevelt Nat. Park				0.359 \pm 0.193	1.632 \pm 0.591			0.529 \pm 0.176				3.372 \pm 1.577
Tonto Nat.Monument				8.735 \pm 2.931								
UL Bend Wilderness					8.411 \pm 5.349						0.387 \pm 0.264	
Weminuche Wilderness				0.479 \pm 0.291			1.871 \pm 0.238	1.814 \pm 0.737				
White Mountain Wilderness				1.222 \pm 0.413			0.550 \pm 0.246			2.910 \pm 0.333		
White River Nat.Forest							1.962 \pm 0.286					
Zion Nat. Park					2.866 \pm 1.700					2.962 \pm 0.365		29.405 \pm 5.214