

Appendix 2. Wind Speed and Wind Direction Bias and Error Calculations for the Six Intrusions.

		ws bias	ws error	wd error	% calm obs
4-May-15	Sisters Ranger Station	4.99	4.99	31.58	13%
	Bridges Boys Academy	2.02	2.02	43.07	0%
	Cascade Academy	2.16	2.16	49.95	38%
	Miller Elementary	3.00	3.00	49.92	13%
	Tumalo Ridge	2.07	2.07	17.35	0%
	Cascade Middle School	0.54	0.85	42.04	0%
	Lava Butte	1.93	1.93	18.53	0%
	Sunriver	-9999.00	-9999.00	-9999.00	100%
	Round Mountain	1.58	1.58	7.56	0%

			ws bias	ws error	wd error	% calm obs		ws bias	ws error	wd error,	% calm obs
5-May-15	Sisters Ranger Station	<b>Day</b>	3.88	3.88	27.45	25%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Bridges Boys Academy	<b>Day</b>	1.66	1.66	38.34	0%	<b>Night</b>	1.30	1.30	-9999.00	86%
	Cascade Academy	<b>Day</b>	2.14	2.14	46.67	13%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Miller Elementary	<b>Day</b>	1.20	1.40	27.29	0%	<b>Night</b>	1.13	1.13	-9999.00	86%
	Tumalo Ridge	<b>Day</b>	0.40	0.72	30.83	0%	<b>Night</b>	-0.47	0.50	51.13	0%
	Cascade Middle School	<b>Day</b>	0.92	0.92	29.58	0%	<b>Night</b>	0.16	0.25	107.52	0%
	Lava Butte	<b>Day</b>	2.48	2.48	33.71	0%	<b>Night</b>	-1.07	1.53	-9999.00	57%
	Sunriver	<b>Day</b>	-1.56	1.64	63.74	0%	<b>Night</b>	0.00	0.73	123.69	0%
	Round Mountain	<b>Day</b>	1.27	1.27	7.69	0%	<b>Night</b>	-0.71	0.87	14.19	0%

			ws bias	ws error	wd error,	% calm obs		ws bias	ws error	wd error,	% calm obs
28-May-15	Sisters Ranger Station	<b>Day</b>	2.01	2.01	-9999.00	75%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Bridges Boys Academy	<b>Day</b>	1.08	1.35	51.25	0%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Cascade Academy	<b>Day</b>	1.29	1.29	50.08	25%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Miller Elementary	<b>Day</b>	2.26	2.26	49.34	50%	<b>Night</b>	0.06	0.06	-9999.00	86%
	Tumalo Ridge	<b>Day</b>	0.91	0.95	54.46	0%	<b>Night</b>	0.00	0.94	93.37	0%
	Cascade Middle School	<b>Day</b>	0.48	0.60	61.93	0%	<b>Night</b>	0.02	1.16	108.17	0%
	Lava Butte	<b>Day</b>	1.47	1.47	25.94	0%	<b>Night</b>	-0.55	0.87	-9999.00	57%
	Sunriver	<b>Day</b>	-0.30	1.13	68.54	0%	<b>Night</b>	0.82	1.31	125.68	0%
	Round Mountain	<b>Day</b>	1.18	1.30	74.58	0%	<b>Night</b>	-1.37	1.37	86.29	0%

			ws bias	ws error	wd error,	% calm obs		ws bias	ws error	wd error,	% calm obs
5-Jun-15	Sisters Ranger Station	<b>Day</b>	3.22	3.22	-9999.00	63%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Bridges Boys Academy	<b>Day</b>	0.81	0.84	28.52	0%	<b>Night</b>	1.68	1.68	8.96	43%
	Cascade Academy	<b>Day</b>	3.63	3.63	30.81	0%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Miller Elementary	<b>Day</b>	3.04	3.04	28.52	0%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Tumalo Ridge	<b>Day</b>	1.61	1.61	18.25	0%	<b>Night</b>	0.82	0.82	42.75	0%
	Cascade Middle School	<b>Day</b>	1.65	1.65	35.82	0%	<b>Night</b>	1.02	1.02	121.68	0%
	Lava Butte	<b>Day</b>	3.87	3.87	23.98	0%	<b>Night</b>	0.64	0.64	-9999.00	71%
	Sunriver	<b>Day</b>	0.38	0.38	6.97	0%	<b>Night</b>	1.80	1.80	99.23	0%
	Round Mountain	<b>Day</b>	2.44	2.44	35.94	0%	<b>Night</b>	-1.46	1.46	128.72	0%

			ws bias	ws error	wd error,	% calm obs		ws bias	ws error	wd error,	% calm obs
6-Jun-16	Sisters Ranger Station	<b>Day</b>	2.14	2.14	58.62	38%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Bridges Boys Academy	<b>Day</b>	1.29	1.29	37.76	0%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Cascade Academy	<b>Day</b>	1.95	1.95	45.75	13%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Miller Elementary	<b>Day</b>	2.66	2.66	25.99	0%	<b>Night</b>	-9999.00	-9999.00	-9999.00	100%
	Tumalo Ridge	<b>Day</b>	0.93	1.03	22.56	0%	<b>Night</b>	-0.34	0.57	67.89	0%
	Cascade Middle School	<b>Day</b>	1.00	1.00	39.05	0%	<b>Night</b>	-0.19	0.91	88.94	0%
	Lava Butte	<b>Day</b>	2.28	2.28	15.47	0%	<b>Night</b>	-0.15	0.36	69.37	14%
	Sunriver	<b>Day</b>	0.10	0.57	9.15	0%	<b>Night</b>	0.30	0.78	85.12	0%
	Round Mountain	<b>Day</b>	1.70	1.70	48.04	0%	<b>Night</b>	-0.88	1.08	76.09	0%

			ws bias	ws error	wd error	% calm obs		ws bias	ws error	wd error	% calm obs
4-Oct-14	Lava Butte 1km	<b>Day</b>	0.18	0.50	81.48	25%	<b>Night</b>	-0.35	0.64	20.39	0%
	Round Mountain 1km	<b>Day</b>	-1.77	1.77	45.99	0%	<b>Night</b>	-0.75	1.19	80.49	0%
	Tumalo Ridge 1km	<b>Day</b>	-1.17	1.22	55.46	0%	<b>Night</b>	0.24	0.51	36.40	0%
	Lava Butte 4km	<b>Day</b>	0.21	0.35	50.86	25%	<b>Night</b>	0.19	0.74	8.99	0%
	Round Mountain 4km	<b>Day</b>	-1.58	1.60	60.88	0%	<b>Night</b>	-0.84	1.36	84.46	0%
	Tumalo Ridge 4km	<b>Day</b>	-1.03	1.03	35.13	0%	<b>Night</b>	0.01	0.59	92.62	0%