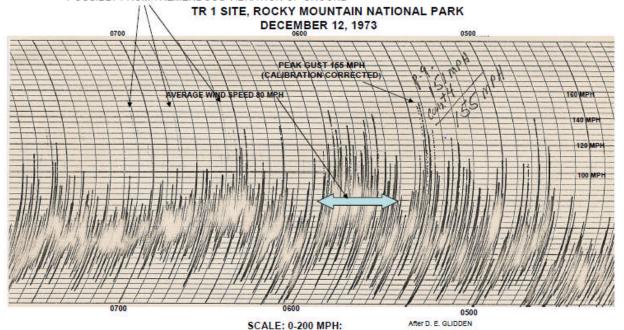
Selected Alpine and Subalpine Wind Research Summaries, 1973-74, Rocky Mountain National Park, Estes Park, CO

Excerpts from Glidden, D. E., 1982, Winter Wind Studies in Rocky Mountain National Park, National Park Service

NOTE NUMEROUS FAINT AND INTERMITTENT INK TRACES > 140 MPH POSSIBLY FROM TREMENDOUS VIBRATION OF GROUND



ANEMOGRAPH FROM TR 1 SITE (ABOVE FOREST CANYON OVERLOOK) ON DECEMBER 12TH, 1973
NOTE RANGE OF TURBULENCE AND HIGH GFs WITH NUMEROUS GUSTS > 140 MPH

Table 6. The maximum recorded windspeeds (peak gusts) for all sites, RMNP, Winter 1973-74. (MPH)

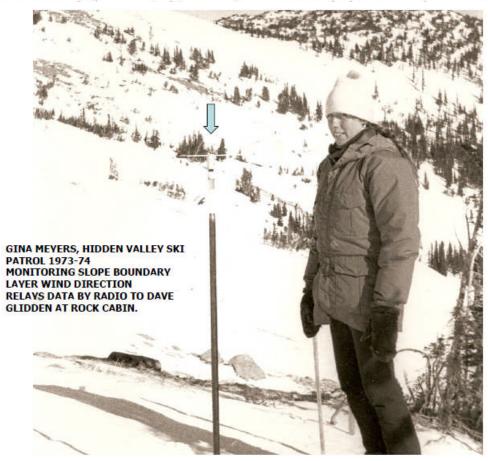
			0	N	D	J	F	M	A	M	PERIOD
TR 1											
Peak	Gust		105	90	155	-	-	-	-	-	155
Days	With	Data	16	17	2	-	-	-	-	-	35
TR 2											
.Peak	Gust		88	99	114	139	105	98	104	75	139
Days	With	Data	11	30	31	31	28	31	30	10	202
TR 3											
	Gust		-	-	98	122	108	115	113	111	122
	With	Data			16	24	28	31	25	28	152
TR 5											
	Gust									75	
	With	Data	-	-	-	14	28	31	30	3	106
TR 6											
	Gust		-	-	-	110000					88
	With	Data	-	-	-	9	28	31	30	30	128
TR 7					120	- 2	200			5.0	
	Gust		-	-	85				61	66	85
Days	With	Data	-	-	7	28	28	31	30	18	142

Table 7. The frequency of occurrence of daily wind maxima ₹74 mph (33 m/s) and ₹100 mph (45 m/s) at TR 3, October 1973-May 1974.

	0-N ¹	J^2	F	M	A	M	PERIOD
No. Days ≥74 mph % Days ≥74 mph	18 60	15 62	11 39	17 61	5 20	9 32	7.5 46
No. Days ≥100 mph % Days ≥100 mph	3	4 17	4 14	14	14	3	19
Days With Data	24	24	28	28	25	28	157

- 1. Data from TR 1
- 2. January daily peak gust data for 24 days

The number of days with maxima \$100 mph (45 m/s) is included in Table 7. These severe winds ranged from 17% of the days in January to 4% in April, occurring on 19 days (or 12% of the days) of the winter period.



Data Summary

Table 4 presents the wind regime summary by month for TR 3 (alpine) and TR 6 (subalpine), January-May 1974.

Table 4	The wind	regime	summary	for TR	3	and	TR	6,
	RMNP, Jan				Ē			

mult, oa	TICHELL Y	Trice of	1714	· Corr	+7	
5 1 6 1	J	F	M	A	M	PERIOD
Peak Gust TR 3 TR 6	122 64	108 77	115 81	113 88	111	122 88
Average Daily Maximum TR 3	80.4	67.4	76.3	57.0	63.5	68.9 46.6
TR 6 No. Peak Gusts	M	51.3	52.1	43.6	39.5	46.6
≃74 mph TR 3 TR 6	392 M		20		367	1,999
No. Peak Gusts ≥100 mph TR 3	322	35			22	15550
TR 6 Maximum One-hour	M	0	0	0	0	0
Average TR 3 TR 6	90 M	80 26	80 36	87 30	72 24	90 36
Maximum Daily Average TR 3	65.7	50.0	53.1	42.7	47.6	65.7
TR 6	M.	M	13.6	11.1	9.8	13.6

Selected References:

Glidden, D. E., June 2018, Superhurricane Winds and Extreme Gust Factors at Longs Peak and Rocky Mountain National Park, Occasional Paper, 16 p.

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