

Frequency of Portland's Wind Direction¹ as compared to Weather Conditions

Using this chart: Each direction totals ~100%. Within that direction are the frequencies (%) of weather (- indicates less than 1%).

Example: In January, when wind is from the south (S), it rains 16% of the time, but has no weather occurring 66% of time.

		Calm	VRB	N 349° to 11°	NNE 11° to 34°	NE 34° to 56°	ENE 56° to 79°	E 79° to 101°	ESE 101° - 124°	SE 124° - 146°	SSE 146° - 169°	S 169° - 191°	SSW 191° - 214°	SW 214° - 236°	WSW 236° - 259°	W 259° - 281°	WNW 281° - 304°	NW 304° - 326°	NNW 326° - 349°	
J A N U A R Y	RA	17	16	3	3	7	3	14	21	19	15	16	15	14	21	21	17	12	11	
	RW	4	4	2	3	1	1	2	3	3	6	11	11	6	4	3	3	3	6	
	DZ	3	1	-	1	1	1	1	1	1	1	1	2	2	2	2	2	1	-	1
	FZRA	1	-	-	-	-	-	1	2	4	-	-	1	1	3	2	1	-	-	
	SN	2	1	3	1	1	5	5	8	9	5	2	4	3	4	2	2	3	3	
	TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FG	23	12	27	23	24	11	10	9	9	8	6	5	10	13	14	18	22	16	
	MIFG	11	1	1	3	1	2	1	1	1	1	1	-	1	-	1	3	3	2	
	None	48	66	61	64	63	74	68	60	59	66	66	66	69	63	61	57	58	62	
F E B R U A R Y	RA	11	21	4	6	4	3	15	23	23	19	19	21	16	23	21	15	10	16	
	RW	4	6	2	1	3	2	2	4	5	4	7	10	5	4	4	4	5	5	
	DZ	2	1	1	1	-	-	1	2	2	1	1	-	1	1	1	-	-	1	
	FZRA	-	-	-	-	1	1	-	2	2	1	-	-	-	1	1	-	-	-	
	SN	2	1	1	1	-	-	1	3	4	3	2	2	2	2	1	1	1	2	
	TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	FG	14	4	15	18	13	9	7	8	7	7	4	4	6	8	9	9	10	10	
	MIFG	8	-	4	1	3	2	3	1	2	1	-	-	1	1	1	4	3	1	
	None	56	65	69	69	65	79	70	63	59	65	69	64	72	67	67	66	69	60	
M A R C H	RA	13	22	8	6	6	8	13	27	23	20	18	19	18	22	21	12	9	16	
	RW	5	9	3	3	4	3	2	3	4	7	9	15	8	6	5	5	6	4	
	DZ	1	1	-	-	1	1	-	1	1	-	1	-	1	1	-	1	1	1	
	SN	1	-	1	-	-	1	4	1	1	1	1	2	2	1	1	1	1	1	
	TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	FG	10	4	8	5	7	5	4	5	5	3	3	2	4	6	7	8	7	6	
	MIFG	6	-	2	2	1	2	1	1	1	1	-	-	-	1	1	1	1	1	
	None	62	65	75	79	79	77	76	66	67	70	69	63	69	67	65	73	74	71	
A P R I L	RA	12	24	4	5	7	6	11	20	17	18	19	17	13	15	14	6	6	8	
	RW	6	7	3	4	2	3	4	4	5	8	10	12	9	6	6	4	4	4	
	DZ	1	1	-	-	-	1	2	1	1	-	1	1	1	1	-	-	1	1	
	TS	0	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
	FG	3	4	4	5	3	2	3	5	3	2	3	2	3	5	4	2	2	2	
	None	73	68	84	84	87	88	82	72	74	71	68	70	75	74	76	85	84	84	
M A Y	RA	10	20	2	2	4	5	11	17	11	15	16	12	14	19	13	4	4	4	
	RW	5	9	4	4	4	5	5	5	5	8	11	11	9	8	6	4	4	3	
	DZ	1	2	-	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	
	TS	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	
	FG	4	1	2	1	1	1	2	4	1	3	2	2	2	4	3	1	1	1	
	None	79	70	91	91	90	88	80	76	81	75	72	75	75	72	78	89	89	91	
J U N E	RA	8	14	2	2	4	5	6	10	10	9	18	15	11	17	11	3	2	2	
	RW	3	10	1	2	3	3	3	4	5	6	10	10	10	7	5	3	2	3	
	DZ	2	1	1	1	1	1	1	2	1	3	1	2	2	1	2	1	1	1	
	TS	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	
	FG	3	4	1	1	1	2	1	5	3	3	3	2	3	6	3	1	1	1	
	None	83	75	93	94	91	90	87	81	83	80	69	72	77	74	80	93	94	94	

Example: In December, best threat of snow occurs with a southwesterly to westerly wind (snow averages 3% of all weather observations). A similar trend exists in November, but snow accounts for much less of the observations.

		Calm	VRB	N 349° to 11°	NNE 11° to 34°	NE 34° to 56°	ENE 56° to 79°	E 79° to 101°	ESE 101° - 124°	SE 124° - 146°	SSE 146° - 169°	S 169° - 191°	SSW 191° - 214°	SW 214° - 236°	WSW 236° - 259°	W 259° - 281°	WNW 281° - 304°	NW 304° - 326°	NNW 326° - 349°
J U L Y	RA	4	11	1	1	2	2	2	7	3	5	5	8	6	6	3	1	1	1
	RW	3	7	1	-	2	3	4	3	4	8	6	6	8	4	2	1	1	1
	DZ	1	2	1	-	1	-	1	1	1	1	1	1	1	1	1	-	-	-
	TS	-	1	-	-	-	-	-	-	-	-	1	1	1	1	-	-	-	-
	FG	2	5	2	3	2	3	2	3	1	-	1	2	1	3	1	1	1	1
	None	90	80	95	93	93	92	90	88	89	86	88	85	84	87	94	97	97	97
A U G U S T	RA	4	7	1	-	1	2	4	7	5	8	7	6	6	9	6	2	1	1
	RW	3	3	1	2	1	4	2	5	6	7	9	10	5	5	3	1	1	1
	TS	-	1	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-
	FG	3	4	4	3	6	6	4	3	4	2	2	3	3	6	1	1	1	2
	None	85	86	90	90	86	85	84	84	84	81	80	81	85	80	85	94	94	93
S E P T	RA	3	9	2	3	2	3	4	10	9	9	9	12	9	11	7	3	2	3
	RW	2	5	1	12	2	2	1	3	2	3	5	7	4	5	2	2	1	3
	DZ	1	2	1	1	1	1	1	1	1	1	-	1	2	1	1	-	-	-
	TS	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	FG	8	7	9	9	8	7	6	7	7	8	5	6	6	6	5	4	4	5
	MIFG	8	-	1	1	2	1	1	2	3	2	2	1	2	2	2	1	1	1
None	67	79	76	77	77	84	81	74	74	77	75	71	76	75	77	83	80	80	
O C T O B E R	RA	6	15	2	4	1	3	8	18	15	11	16	16	14	18	14	7	7	9
	RW	3	5	1	2	3	1	2	3	3	6	9	8	5	3	3	3	3	3
	DZ	1	2	1	1	-	1	1	1	1	1	-	1	1	1	1	1	1	1
	TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	FG	19	11	22	27	15	19	10	10	9	9	9	6	10	10	11	9	11	12
	MIFG	11	1	2	1	3	1	3	2	3	3	2	1	2	2	4	3	3	2
None	48	66	61	57	62	67	66	64	64	64	63	67	65	67	64	65	64	66	
N O V E M B E R	RA	10	20	7	10	8	5	12	22	23	18	20	24	17	25	22	14	12	14
	RW	5	9	1	2	1	4	1	2	3	5	9	10	5	4	4	5	3	5
	DZ	2	1	2	-	1	1	1	1	2	1	1	1	1	2	2	1	2	1
	FZRA	-	-	-	-	-	-	1	1	1	-	-	-	-	1	1	-	-	-
	SN	-	-	-	-	-	-	-	1	-	-	1	1	1	1	1	1	-	-
	TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FG	21	12	29	33	25	20	11	9	13	12	7	7	11	12	14	15	19	18
	MIFG	8	-	5	3	1	1	2	1	2	2	1	-	1	1	2	4	3	2
None	50	62	53	51	61	69	71	64	60	63	62	61	68	62	59	60	59	59	
D E C E M B E R	RA	11	16	5	5	3	4	11	22	24	19	18	20	17	26	22	19	12	12
	RW	5	6	3	5	3	2	1	2	4	5	9	11	8	4	4	4	5	5
	DZ	1	1	1	1	2	1	1	2	4	1	1	2	2	2	3	3	2	2
	FZRA	-	-	-	-	-	-	-	1	1	-	-	1	1	1	-	-	-	-
	SN	1	1	1	-	1	-	1	2	1	1	2	2	3	3	3	1	1	-
	TS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FG	22	19	32	25	25	16	9	10	15	11	8	5	10	12	13	18	25	22
	MIFG	9	-	4	1	2	3	1	1	2	2	1	-	1	1	1	2	3	1
None	48	61	52	61	65	74	76	64	56	62	62	62	63	59	62	56	56	58	

¹VRB is variable (less than 3 mph). A - (dash) is value that is near zero. Based on 1948-1995 observational (non-ASOS) data. Numbers total may not equal 100%, as not all weather was included (such as blowing snow, hail, dust, smoke and haze).