

LANGLEY AFB/HAMPTON VIRGINIA

LAT 37 05N LONG 76 21W ELEV 10 FT

MEAN FREQUENCY OF OCCURRENCE OF DRY BULB TEMPERATURE (DEGREES F) WITH MEAN COINCIDENT WET BULB TEMPERATURE (DEGREES F) FOR EACH DRY BULB TEMPERATURE RANGE

Temperature Range	MAY				JUNE				JULY				AUGUST				SEPTEMBER				OCTOBER			
	Obsn Hour Cp			Total Obsn	Obsn Hour Cp			Total Obsn	Obsn Hour Cp			Total Obsn	Obsn Hour Cp			Total Obsn	Obsn Hour Cp			Total Obsn	Obsn Hour Cp			Total Obsn
	01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24	
95/99	0	0	0	76	2	0	2	78	3	0	3	78	2	0	2	79	3	0	3	77				
90/94	2	0	2	74	15	3	18	77	23	4	27	77	17	3	20	78								
85/89	13	3	16	71	1	39	15	55	75	0	56	19	75	76	0	49	14	63	76	24	3	27	75	
80/84	0	32	10	42	69	5	55	33	93	12	81	52	145	74	11	83	44	138	74	1	49	17	67	73
																					7	1	8	71
75/79	3	40	25	68	67	33	58	52	143	70	92	62	93	247	72	82	65	94	241	72	28	65	51	144
70/74	30	49	44	123	65	87	45	70	202	68	101	21	66	183	69	97	28	69	194	69	71	52	66	189
65/69	57	46	19	153	61	64	19	45	128	63	33	2	13	48	65	41	4	19	64	64	58	30	54	142
60/64	57	41	53	151	57	32	7	18	57	59	8	0	2	10	60	12	0	4	16	60	45	15	33	93
55/59	51	18	39	108	53	13	1	3	17	55	2		0	2	56	4		1	5	55	26	2	12	40
																					44	34	46	124
50/54	33	6	19	58	49	3		1	4	50						1		0	1	51	9		4	13
45/49	11	1	4	16	45	1		0	1	46											40	14	35	89
40/44	5		1	6	40	0			0	43											31	5	17	53
35/39	1		0	1	36																16	1	8	25
30/34																					9	0	2	11
25/29																					1		0	1

LANGLEY AFB/HAMPTON VIRGINIA

ATTACHMENT NO 3

STATE	Station	LOCATION			WINTER DESIGN DATA HEATING				DEGREE DAYS	SUMMER DESIGN DATA AIR CONDITIONING										SUMMER CRITERIA DATA AIR CONDITIONING				
					Dry Bulb					Dry Bulb					Wet Bulb			Dry Bulb		Wet Bulb				
		lat	long	Elev feet	99% °F	97.5% °F	Wind dir	Mean Speed knts		Heating annual	1% MCWB		2.5% MCWB		Mean Daily Range °F	Wind dir	5% MCWB		1% 2.5% 5%		93°F hrs	80°F hrs	73°F hrs	67°F hrs
											°F	°F	°F	°F			°F	°F	°F	°F				
VIRGINIA (CONT)																								
	Norfolk NAS/Chambers Field	36 56	76 18	13	20	23	NNW	11	3451	93 77	91 76	17	SSW	89 76	80 78	77 77	39	930	932	2212				
	Oceana NAS	36 49	76 02	22	19	22	N	11	3639	91 77	89 76	17	SW	87 75	79 78	77 77	12	708	856	2184				
	Portsmouth	36 51	76 18	10	20	22	NW	10	3488	93 77	91 76	19	S	89 76	79 78	77 77	41	874	961	2238				
	Quantico MCAS	38 30	77 18	12	10	14	NW	6	4349	93 77	91 76	21	S	89 75	80 78	77 77	37	892	710	1884				
	Radford Ordnance Works	37 11	80 33	1750	9	14	NW	9	4680	91 71	89 71	24	SW	86 70	74 73	72 72	14	609	124	1213				
	Richmond/Byrd IAP	37 30	77 20	164	14	17	N	6	3939	95 76	92 76	22	SW	90 75	79 78	77 77	70	932	765	1973				
	Richmond Quartermaster Depot	37 26	77 27	122	14	17	N	6	3939	95 76	92 76	22	SW	90 75	79 78	77 77	70	932	765	1973				
	Roanoke/Woodrum Apt	37 19	79 58	1193	12	16	NW	9	4307	93 72	91 72	24	SW	88 71	75 74	73 73	38	810	223	1468				
	Staunton/Shenandoah Valley	38 16	78 54	1201	12	16	NW	9	4307	93 72	91 72	24	SW	88 71	75 74	73 73	38	810	223	1468				
	Vint Hill Farms Station	38 45	77 41	425	7	11	NW	9	5010	93 74	90 73	23	S	88 73	77 76	75 75	28	749	386	1417				
	Williamsburg	37 16	76 42	70	17	20	N	10	3671	93 77	91 76	17	SSW	88 75	80 78	77 77	42	905	807	2065				
	Yorktown	37 14	76 31	25	17	20	NW	9	3623	92 78	90 77	17	SW	87 76	79 78	77 77	21	809	1010	2290				
WASHINGTON																								
	N	W																						
	Aberdeen	46 59	123 49	12	25	28	ESE	6	5316	80 65	77 62	20	NNW	73 61	65 63	62 62	1	38	0	14				
	Bangor	47 43	122 43	15	21	25	E	8	5432	82 65	78 64	24	N	75 62	66 64	63 63	2	64	0	26				
	Bellingham IAP	48 48	122 32	158	10	15	NNE	15	5738	81 67	77 65	26	WSW	74 63	68 65	63 63	0	45	1	46				
	Blaine AFS	48 55	122 44	65	10	15	NNE	15	5738	81 67	77 65	26	WSW	74 63	68 65	63 63	0	45	1	46				
	Bremerton NAVSHIPYD	47 34	122 39	7	21	25	E	8	5432	82 65	78 64	24	N	75 62	66 64	63 63	2	64	0	26				
	Ephrata MAP	47 18	119 31	1272	4	8	N	8	5603	96 66	93 65	31	SSW	89 63	67 66	64 64	81	655	1	52				
	Everett use Paine AFB	47 37	117 38	2462	1	7	NNE	7	6790	93 63	90 62	29	SSW	86 61	65 63	62 62	32	415	0	5				
	Fairchild AFB/Spokane	47 39	122 25	225	21	25	ESE	6	5678	81 65	77 64	22	NNW	74 62	67 64	63 63	2	47	1	30				
	Fort Lawton	47 05	122 35	301	19	24	S	6	5339	86 65	82 64	30	NNE	78 62	67 65	63 63	2	130	2	29				
	Four Lake Comm Sta ANG	47 33	117 33	2642	1	7	NNE	7	6806	93 63	90 62	29	SSW	86 61	65 63	62 62	32	415	0	5				
	Keyport	47 42	122 37	17	21	25	E	8	5432	82 65	78 64	24	N	75 62	66 64	63 63	2	64	0	26				
	Longview	46 10	122 56	12	19	24	ESE	9	5064	88 68	85 67	26	NW	81 65	69 67	66 66	9	200	4	101				
	Madigan Army Hospital	47 06	122 32	275	19	24	S	5	5328	86 66	82 65	32	NNE	79 63	68 66	64 64	4	131	0	49				
	Makah AFS	48 23	124 41	1430	26	29	E	24	5774	64 58	62 58	9	SW	60 57	60 59	58 58	0	0	0	0				
	Marietta	48 50	122 36	20	10	15	NNE	15	5738	81 67	77 65	26	WSW	74 63	68 65	63 63	0	45	1	46				
	McChord AFB/Tacoma	47 09	122 29	322	19	24	S	5	5287	86 66	82 65	32	NNE	79 63	68 66	64 64	4	131	0	49				
	Mica Peak AFS	47 34	117 05	5198	-1	4	SW	17	8840	77 58	74 57	20	SW	71 56	59 58	56 56	0	2	0	0				
	Moses Lake/Grant Co	47 12	119 19	1185	1	7	N	8	5809	97 66	94 65	31	SSW	90 63	67 66	64 64	97	675	1	52				
	Olympia	46 58	122 54	215	16	22	NE	4	5530	87 66	83 65	33	NE	79 64	67 66	64 64	5	139	0	46				

STATE	LOCATION	WINTER DESIGN DATA	DEGREE DAYS	SUMMER DESIGN DATA				SUMMER CRITERIA DATA			
		HEATING		AIR CONDITIONING			AIR CONDITIONING				
		Dry Bulb		Dry Bulb		Wet Bulb	Dry Bulb	Wet Bulb			
				Mean							

LANGLEY AFB/HARPTON VIRGINIA

Tempera ture Range	NOVEMBER					DECEMBER					JANUARY					FEBRUARY					MARCH					APRIL					ANNUAL TOTAL				
	Obsn Hour Cp			Total Obsn	M C W B	Obsn Hour Cp			Total Obsn	M C W B	Obsn Hour Cp			Total Obsn	M C W B	Obsn Hour Cp			Total Obsn	M C W B	Obsn Hour Cp			Total Obsn	M C W B	Obsn Hour Cp			Total Obsn	M C W B					
	01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24		01 to 08	09 to 16	17 to 24				
95/99																																			
90/94																																			
85/80																																			
80/84		1		1	70													3	0	3	63		11	3	14	66	29	322	160	511	73				
75/79		5	1	6	66		1	1	67		0	0	62		0	3	6	1	7	61		0	13	10	28	64	240	340	333	913	71				
70/74	2	14	3	19	63	0	4	1	5	63		3	3	60		0	3	0	3	60		5	26	15	46	62	405	306	358	1069	67				
65/69	5	25	12	42	61	1	9	3	13	60		6	2	8	60		1	6	3	10	58		3	15	9	27	58	22	29	26	77	60			
60/64	20	40	29	89	57	7	13	10	30	57	4	11	7	22	55	4	10	7	21	56	10	19	16	45	54	30	41	34	105	55	288	247	271	806	57
55/59	32	49	39	120	52	13	18	14	45	52	8	13	10	31	52	6	12	10	28	51	13	28	22	63	50	39	44	44	127	51	251	219	240	710	52
50/54	37	46	47	132	47	16	32	25	73	47	11	18	12	41	46	10	22	15	47	46	21	38	27	86	46	40	40	48	128	47	221	218	233	672	47
45/49	42	34	44	120	43	26	46	35	107	43	17	33	25	75	42	18	34	29	81	42	38	54	56	148	42	54	20	40	114	43	240	227	251	718	43
40/44	46	17	37	100	38	39	46	44	129	38	33	47	45	125	38	34	47	47	128	38	63	48	64	175	38	35	4	15	54	39	271	210	261	742	38
35/39	28	5	18	51	34	40	38	44	122	33	43	45	46	134	33	46	45	50	141	33	55	20	31	106	33	11	1	2	14	35	233	154	193	580	33
30/34	19	1	9	29	29	47	28	41	116	29	45	36	46	127	29	49	28	38	115	29	27	8	14	49	28	3	0	1	4	31	191	101	149	441	29
25/29	6	0	2	8	25	35	9	21	65	25	44	23	35	102	24	33	11	18	62	24	14	2	5	21	24						132	45	81	258	24
20/24	1	0	1	20		17	3	8	28	20	28	9	13	50	20	16	4	7	27	20	3	0	0	3	20						65	16	28	109	20
15/19						6	1	2	9	16	11	3	5	19	15	6	1	1	8	15											23	5	8	36	15
10/14	2	3	2	7		1	0	1	12		3	1	1	5	11	1	0	0	1	11											5	1	1	7	11
5/9											1		1	7		0			8												1	0	0	1	7

12
10
44
44
29
911

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DATE	OBSERVATIONS			TIME																								RAIN	SNOW SLEET HAIL	FRO	FOG	SLC	GLD	THUN	DST	HLY	WIND	WVS	BARS	REMARKS	
	MAX.	MIN.		A.M.											NOON		P.M.																								
				1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11																
1	50	42	68																																		00	29	99	Clear	
2	48	38	65																																		00	30	06	Foggy	
3	50																																				00	30	01	Clear	
4																																									
5		40	70																																						.4
6	48	48	74																																		00	29	96	Clear	
7	58	53	76																																		00	29	83	Clear	
8	52	38	53																																		00	29	77	Cloudy - Rain	
9	44																																				00	29	74	Clear	
10																																									
11																																									
12		43	64																																						.85
13	55	43	59																																		00	30	14	Cloudy	
14	48	49	71																																		00	30	11	Clear	
15	62	52	69																																		00	30	06	Clear	
16	52	52	58																																		00	30	10	Cloudy - Rain	
17	58																																				00	30	12	Cloudy	
18																																									
19		38	74																																						
20	44	41	55																																		00	30	04	Partly Cloudy	
21	48	46	59																																		00	30	21	Clear	
22	47																																				00	30	15	Cloudy	
23		47	54																																						.4
24	52																																				00	29	66	Clear	
25																																									
26		28	65																																						.3
27	42	40	61																																		00	29	88	Cloudy - Rain	
28	50	40	61																																		00	29	75	Cloudy	
29	42	42	50																																		00	30	12	Cloudy	
30	42	37	58																																		00	29	42	Cloudy	
31																																									
Sum				1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11																
Ave																																									

WIND

0 CALM

1-7 MPH

8-12 GENTLE

13-18 MOD.

19-24 FRESH

25-30 STRONG

31-34

35-40

41-45

46-50

51-55

56-60

61-65

66-70

71-75

76-80

81-85

86-90

91-95

96-100

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