

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	January2020	EASTERN									
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION	
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence			watts per sq ft	time occurrence
1	54		37		40	0.00												
2	49		25		27	0.00			4.05	2.67								
3	55		27		48	0.16												
4	54		48		55	0.07												
5	59		38		40	0.35												
6	43		31		37	0.00			2.96									
7	55		27		27	0.00			2.87									
8	46		27		37	0.40	1.4	1	3.28									
9	45		25		25	0.00		T	Frozen									
10	38		24		38	0.00			3.21									
11	62		38		63	0.00												
12	72		63		65													
13	68		41		44	0.32			3.23					2 day rain total				
14	52		39		44	0.00			3.30									
15	47		44		46	0.06												
16	60		45		54	0.00			3.30									
17	54		31		31	0.00			Frozen									
18	37		22		28	0.00												
19	42		28		43	0.28												
20	45		22		24	0.00												
21	35		20		22	0.00			Frozen									
22	36		18		22	0.00			Frozen									
23	41		20		21	0.00			Frozen									
24	43		21		31	0.00			Frozen									
25	52		31		47	0.97												
26	51		32		31	0.03												
27	50		32		35	0.00			4.01									
28	49		36		41	0.00												
29	46		40		40	0.00												
30	46		24		28	0.00			3.82									
31	41		29		31	0.00			3.30									
Average	49		32		38	Total 2.64	1.4				#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest 0.97	1.4											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION																
UPPER MARLBORO				PRINCE GEORGE				MD				7:00 AM February 2020		EASTERN		
DATE	TEMPERATURE F		present	RAIN, MELTED	SNOW, ICE,	SNOW, ICE ON	EVAP	WATER TEMP F				REMARKS	AVERAGE SOLAR RADIATION			
	maximum	time						minimum	time	maximum	time		minimum	time	WIND	watts
	occurrence			PRECIP	HAIL	GROUND		reading					SPEED	per	occurrence	
				INCHES	INCHES	INCHES	INCHES	after					MPH	sq ft		
1	47		29	34.00	0.02											
2	51		34	46.00	0.08											
3	56		38	41.00	0.01			3.79								
4	66		41	52.00	0.02			3.72								
5	69		46	46.00	0.04			3.68								
6	46		39	40.00	0.16			3.83								
7	61		41	60.00	0.83											
8	59		29	31.00	0.57											
9	46		26	29.00	0.00											
10	50		29	43.00	0.02			4.82	3.79							
11	54		43	54.00	0.60			4.41	3.47							
12	56		41	42.00	0.10			3.52								
13	49		41	50.00	0.22											
14	56		36	36.00	0.21			3.85								
15	41		18	20.00	0.00											
16	54		20	32.00	0.00											
17	36		32	33.00	0.00			3.68								
18	55		33	41.00	0.00			3.58								
19	60		41	45.00	0.02			3.48								
20	53		29	32.00	0.00			3.39								
21	41		24	24.00	0.00			Frozen								
22	36		22	32.00	0.00											
23	53		22	25.00	0.00											
24	59		25	29.00	0.00			3.07								
25	61		29	47.00	0.14			3.14								
26	54		48	50.00	0.17			3.32								
27	52		38	38.00	0.29			3.55								
28	44		30	32.00	0.00			Frozen								
29	48		29	32.00	0.00											
Average	52		33	38.48	Total	3.50	0.00									
					Greatest	0.8	0.00									

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	March 2020	EASTERN										
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION	
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence			watts per sq ft	time occurrence
1	37		22		29	0.00				3.14								
2	51		29		30	0.00				3.11								
3	66		30		44	0.10				3.12								
4	66		44		48	0.09				2.94								
5	64		37		37	0.00				2.85								
6	56		31		36	0.00												
7	49		34		40	0.02												
8	50		28		33	0.00												
9	62		33		40	0.00				2.53								
10	74		40		59	0.00				2.32								
11	73		44		44	0.00				2.21								
12	55		42		47	0.00				2.14								
13	60		47		58	0.23				2.29								
14	74		40		42	0.00												
15	58		41		43	0.18				2.14								
16	51		32		35	0.00												
17	54		35		44	0.01				2.00								
18	66		40		40	0.00												
19	58		40		50	0.58				2.34								
20	71		50		68	T				2.27								
21	81		50		40	0.13												
22	56		38		39	0.00												
23	52		38		41	0.11				2.10								
24	46		41		43	0.34				2.44								
25	56		43		44	0.14				2.51								
26	50		35		38	0.27				2.78								
27	58		38		49	0.00				2.67								
28	68		49		54	0.32												
29	59		51		53	0.09												
30	67		53		53	0.00				2.90								
31	73		43		45	0.00				2.68								
Average	60		39		44	Total 2.61	0.0				#DIV/0!		#DIV/0!			#DIV/0!	#DIV/0!	
					Greatest	0.58	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	April 2020	EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION				
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				watts per sq ft	time occurrence		
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum			time occurrence			minimum	time occurrence
1	55		41		42	0.18			2.82									
2	55		41		42	0.00			2.72									
3	62		42		47	0.00			2.49									
4	64		47		51	T			2.26									
5	58		48		48	0.00												
6	69		48		53	0.00			2.11									
7	69		45		53	0.00												
8	73		53		57	0.17			1.99									
9	77		53		55	0.12			1.91									
10	73		42		45	0.00			1.65									
11	51		32		32	0.00			1.51									
12	62		32		48	0.00												
13	73		49		64	1.55			2.74									
14	76		46		47	0.53			3.10									
15	58		37		39	0.45			3.42									
16	54		39		44	0.00			3.24									
17	53		31		35	0.00			3.10									
18	59		34		45	0.02												
19	53		32		35	0.06												
20	66		35		54	0.00			2.82									
21	62		47		49	0.00												
22	67		33		36	0.01			2.58									
23	62		36		45	0.00			2.39									
24	58		45		52	1.32			3.67									
25	57		44		51	0.17												
26	64		49		52	0.16												
27	57		44		45	0.29			4.10									
28	57		38		43	0.00			4.00									
29	60		43		48	0.00			3.91	1.7								
30	75		48		65	0.00			1.52									
Average	63		42		47	Total	5.03	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest	1.55	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	May 2020	EASTERN										
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION	
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence			watts per sq ft	time occurrence
1	66		52		53				2.61									
2	66		50		67													
3	71		56		62													
4	77		62		64				3.49									
5	74		49		49				0.00									
6	60		48		50				0.26									
7	54		41		44				0.22									
8	68		44		50				0.00									
9	68		34		39				0.16									
10	51		42		42				0.00									
11	65		40		51				0.02									
12	62		40		40				2.87									
13	61		38		44				0.00									
14	71		44		48				2.50									
15	72		48		66				2.26									
16	87		66		72				2.11									
17	81		56		63				0.00									
18	68		58		56				0.00									
19	67		56		57				1.45									
20	68		52		53				1.36									
21	62		49		51				1.10									
22	72		51		62				0.00									
23	75		62		66				0.25									
24	82		61		61				0.58									
25	67		61		62				0.00									
26	73		55		57				0.00									
27	77		57		65				1.17									
28	80		65		72				0.00									
29	78		72		75				0.83									
30	86		68		70				0.09									
31	83		58		61				0.00									
Average	71		53		57	Total	4.05	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest	1.34	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	June 2020	EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION				
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				watts per sq ft	time occurrence		
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum			time occurrence			minimum	time occurrence
1	84		48		58	0.00			0.15	1.75								
2	74		53		59	0.00			1.54									
3	77		59		72	0.00			1.40									
4	80		69		69	0.00												
5	92		69		71	0.55			1.44									
6	89		71		74	0.78												
7	89		63		66	0.05												
8	81		58		61	0.00			1.56									
9	83		58		60	0.00			1.32									
10	90		60		75	0.00			1.10									
11	90		74		78	0.10												
12	84		69		71	0.08			0.88									
13	87		60		63	0.00												
14	79		62		63	0.00												
15	76		58		62	0.00			0.02	2.01								
16	77		62		67	0.00			1.76									
17	76		62		64	0.00			1.52									
18	69		64		69	0.64			2.17									
19	80		64		66	0.00			2.01									
20	84		65		69	T												
21	80		65		70	0.56												
22	84		67		67	0.06			2.24									
23	89		67		68	0.15			2.18									
24	88		68		74	0.00			1.98									
25	85		66		70	0.00			1.69									
26	85		62		66	0.51			1.96									
27	88		66		75	0.00												
28	91		72		74	0.03												
29	90		73		74	0.00			1.41	1.7								
30	90		67		68	0.00			1.49									
Average	84		64		68	Total Greatest	3.51 0.78	0.0 0.0			#DIV/0!		#DIV/0!		#DIV/0!			

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM		July 2020		EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION		
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F					watts per sq ft	time occurrence	
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum					time occurrence
1	89		68		71	0.10			1.37									
2	85		67		67	0.20			1.41									
3	90		69		72	0.00			1.17									
4	95		72		73	0.00												
5	90		73		76	0.22												
6	91		73		74	0.01			0.73									
7	92		69		72	3.56			O.F.	3.41								
8	87		72		74	0.00			3.30									
9	89		71		72	0.00			3.04									
10	89		72		76	0.00			2.80									
11	85		75		76	0.00												
12	90		66		69	0.00												
13	91		69		69	0.05			2.20									
14	90		69		69	0.09			2.08									
15	88		67		68	0.00			1.85									
16	89		67		75	0.00												
17	86		74		74	T			1.37									
18	94		74		76	0.00												
19	95		72		74	0.00												
20	95		74		80	0.00												
21	97		74		74	0.84			1.23									
22	95		74		76	0.07			1.04	2.36								
23	92		73		75	0.38			2.47									
24	91		73		75	0.30			2.65									
25	86		71		73	0.85												
26	90		73		78	0.02												
27	94		73		73	0.00			3.11									
28	93		73		76	0.00			2.83									
29	93		73		74	0.00			2.59									
30	92		74		76	0.00			2.30									
31	94		73		74	0.15			2.22									
Average	91		72		74	Total 6.84	0.0				#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest 3.56	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	August 2020		EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION			
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				watts per sq ft	time occurrence		
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence					minimum	time occurrence
1	79		71		72	0.08												
2	88		72		78	0.00												
3	91		73		84	0.01			1.82									
4	88		69		69	1.62			3.22									
5	84		68		69	2.43			O.F.	2.66								
6	88		69		73	0.42			2.83									
7	84		71		72	0.05			2.73									
8	86		71		71	2.66												
9	84		70		71	0.00												
10	88		71		73	T			4.80	3.28								
11	91		73		74	0.00			3.16									
12	91		74		76	0.04			2.98									
13	91		73		74	0.04												
14	92		73		75	1.15			3.91									
15	86		71		71	0.00												
16	86		66		67	1.45												
17	75		62		64	0.07			5.17	3.19								
18	83		62		65	0.07			3.10									
19	87		65		69	0.05			2.96									
20	83		64		70	0.05			2.86									
21	83		64		64	0.00			2.66									
22	84		64		73	T												
23	85		72		73	0.00												
24	89		73		74	0.00			2.23									
25	89		72		72	0.99			2.97									
26	91		69		69	0.24			2.99									
27	87		69		72	0.00			2.79									
28	92		72		72	0.00			2.57									
29	92		72		76	1.20												
30	83		63		64	0.19												
31	81		64		65	0.00			3.52									
Average	86		69		71	Total	12.81	0.0			#DIV/0!		#DIV/0!		#DIV/0!			
						Greatest	2.66	0.0										

S. No. 18-9070-4



RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	September 2020	EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION				
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				watts per sq ft	time occurrence		
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum			time occurrence			minimum	time occurrence
1	77		65		69	0.43			3.91									
2	81		69		74	0.01			3.88									
3	88		72		72	0.01			3.75									
4	91		71		71	1.03			4.52									
5	89		61		63	0.00												
6	80		58		59	0.00												
7	83		60		60	0.00												
8	82		62		62	0.00			3.73									
9	84		62		72	0.00			3.56									
10	77		72		75	0.35			3.91									
11	81		74		74	0.26			4.14									
12	83		70		69	0.02												
13	76		58		60	0.00												
14	81		60		71	0.00			3.82									
15	78		50		50	0.00			3.65									
16	69		49		50	0.00			3.53									
17	75		50		64	0.00			3.43									
18	74		65		65	0.52			3.90									
19	74		46		48	0.02												
20	63		42		42	0.00												
21	64		42		44	0.00			3.45									
22	66		41		41	0.00			3.30									
23	71		41		53	0.00			3.17									
24	81		53		56	0.00			3.03									
25	72		57		58	0.00			2.88									
26	73		58		63	0.86												
27	72		63		68	0.10												
28	78		67		67	0.00			2.88									
29	82		67		68	0.01			2.75									
30	80		56		56	1.38			4.05									
Average	78		59		61	Total 5.00	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!			
						Greatest 1.38	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	October 2020	EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION				
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				watts per sq ft	time occurrence		
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum			time occurrence			minimum	time occurrence
1	70		54		55	0.00			2.85									
2	76		56		56	0.29			2.93									
3	69		44		45	0.01												
4	66		43		43	0.00												
5	69		43		52	0.02			2.61									
6	69		46		46	0.00			2.49									
7	73		46		56	0.00			2.37									
8	80		51		51	0.00												
9	70		44		44	0.00			2.15									
10	71		44		54	0.00												
11	73		54		64	0.00												
12	73		63		62	1.33			3.30									
13	62		57		57	0.27			3.61									
14	68		46		46	0.00			3.49									
15	74		46		51	0.00			3.42									
16	76		50		58	0.08			3.34									
17	60		40		41	0.25												
18	61		38		38	0.00												
19	67		38		49	0.00			3.39									
20	72		49		58	0.00			3.31									
21	77		58		64	0.00			3.26									
22	78		58		58	0.00												
23	82		58		59	0.00			3.09									
24	76		59		61	0.00												
25	76		46		46	0.26												
26	51		46		49	0.35			3.43									
27	64		49		59	0.00			3.41									
28	66		59		63	0.00			3.36									
29	72		59		59	0.35												
30	66		48		48	2.22			O.F.	2.94								
31	55		43		44	0.00												
Average	70		50		53	Total 5.43	0.0				#DIV/0!		#DIV/0!		#DIV/0!			

Greater 2.22 0

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	November 2020	EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION				
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				watts per sq ft	time occurrence		
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum			time occurrence			minimum	time occurrence
1	52		45		53	0.00												
2	61		39		41	0.55			3.35									
3	50		39		48	0.00			3.23									
4	64		36		37	0.00			3.12									
5	69		37		43	0.00			3.00									
6	71		46		49	0.00			2.90									
7	72		42		43	0.00												
8	75		42		53	0.00												
9	78		50		48	0.00			2.71									
10	78		48		50	0.00			2.64									
11	77		50		69	0.00			2.45									
12	71		68		68	2.74												
13	67		48		49	0.25			O.F.	2.45								
14	62		37		46	0.00												
15	60		41		49	0.00												
16	71		49		51	0.28			2.46									
17	62		36		46	0.00			2.43									
18	57		34		37	0.00			2.31									
19	45		26		29	0.00			2.21									
20	53		29		42	0.00			2.08									
21	66		42		49	0.00												
22	66		49		53	0.00												
23	60		53		51	0.01			1.83									
24	53		36		37	0.00			1.70									
25	54		34		44	0.00			1.63									
26	64		43		65	0.15												
27	70		51		55	0.00												
28	63		41		43	0.00												
29	62		31		32	0.00												
30	61		32		59	0.59			2.10									
Average	64		42		48	Total Greatest	4.57 2.74	0.0 0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		December 2020		EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION	
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				watts per sq ft	time occurrence				
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence						
1	65		41		41				3.10											
2	47		36		39				2.92											
3	48		28		27															
4	57		28		48				2.82											
5	55		45		45															
6	51		39		41															
7	45		31		33				4.10											
8	41		32		34				4.03											
9	47		28		32				3.97						Ice on Pan					
10	46		27		28				3.92						Ice on Pan					
11	52		28		33															
12	62		33		43															
13	64		43		49															
14	66		40		43				3.76											
15	43		29		30				Frozen											
16	42		28		32				4.59	2.88					Ice on Pan					
17	37		28		27		0.1	0	Frozen											
18	39		27		32															
19	38		24		25															
20	38		24		36															
21	45		36		41															
22	51		38		42															
23	50		27		27															
24	55		27		56															
25	62		36		45		T	0												
26	35		23		24				Frozen											
27	36		22		22															
28	43		22		39															
29	57		38		39		T													
30	42		25		30															
31	50		30		51															
Average	49		31		37	Total	6.26	0.1				#DIV/0!		#DIV/0!			#DIV/0!	#DIV/0!		
						Greatest	1.59	0.1												

S. No. 18-9070-4