

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	January 2018		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	26		21		22	0.00												
2	27		8		10	0.07			Frozen									
3	26		1		3	0.00			Frozen									
4	37		3		18	0.08	1.6	2	Frozen									
5	30		8		8	0.00		2	Frozen									
6	21		4		4	0.00		2	Frozen									
7	19		-2		1	0.00		2	Frozen									
8	24		1		9	0.00		1	Frozen									
9	40		9		24	0.04		0	Frozen									
10	49		20		20	0.00			Frozen									
11	50		20		47	0.00												
12	64		47		60	0.31			2.31									
13	69		35		35	0.25												
14	35		14		16	0.00												
15	27		10		14	0.00			Frozen									
16	33		14		25	0.00			Frozen									
17	43		22		22	0.07	0.7	1	Frozen									
18	27		13		16	0.00		1	Frozen									
19	45		16		18	0.00		0	Frozen									
20	53		18		20	0.00			Frozen									
21	61		20		28	0.00												
22	62		28		48	0.00			2.35									
23	67		44		57	0.08			2.41									
24	68		36		40	0.01			2.27									
25	46		26		27	0.00			Frozen									
26	40		17		18	0.00			Frozen									
27	44		17		38	0.00												
28	63		38		47	0.11												
29	53		40		40	0.21			2.33									
30	45		27		33	T												
31	35		15		18	0.00			Frozen									
Average	43		19		25	Total	1.23	2.3			#DIV/0!			#DIV/0!	#DIV/0!			
					Greatest	0.31	1.6											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	February 2018		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	41		19		35	0.00			Frozen									
2	54		27		27	0.07												
3	35		7		24	0.00												
4	36		12		27	0.00												
5	37		26		27	1.05			Frozen									
6	35		18		26	0.00			Frozen									
7	41		2		27	0.01			Frozen									
8	40		20		22	0.45												
9	35		15		18	0.00												
10	49		16		32	0.00												
11	59		32		56	3.10												
12	69		32		37	0.45			overflow	2.32								
13	49		23		30	0.01												
14	40		27		32	0.00			2.24									
15	56		32		51	0.08			2.28									
16	73		50		57	0.05			2.27									
17	63		25		28	0.00												
18	44		28		29	0.65	0.8	1										
19	48		28		35	0.01		0	2.78									
20	60		35		55	0.01			2.79									
21	78		55		58	0.00			2.66									
22	81		50		50	0.00			2.45									
23	55		35		37	0.10			2.53									
24	54		36		48	0.00												
25	52		42		44	0.13												
26	53		43		44	0.12			2.81									
27	54		24		24	0.00												
28	60		24		41	0.00			2.62									
Average	52		28		36	Total 6.29	0.8			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!			
					Greatest	3.10	0.8											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	March 2018	EASTERN				REMARKS			AVERAGE	SOLAR RADIATION	
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				WIND SPEED MPH	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		43	0.00			2.51									
2	54		35		35	0.15			2.52									
3	47		32		35	0.01												
4	52		31		35	0.00												
5	41		25		30	0.00			2.01									
6	46		20		27	0.00			1.94									
7	47		27		31	0.40	1.1	1	2.43									
8	46		29		31	0.00		0	2.40									
9	44		27		32	0.00			2.24									
10	46		22		34	0.00												
11	52		21		27	0.00												
12	49		23		29	0.00			2.01									
13	45		28		29	0.17			1.99									
14	45		27		30	0.01												
15	43		25		33	0.00												
16	52		23		32	0.00			1.66									
17	44		19		23	0.00												
18	44		23		33	0.00												
19	57		23		26	0.00												
20	56		25		33	0.27												
21	34		30		30	0.95	1.0	1										
22	31		25		28	0.48	5.4	6										
23	47		28		29	0.00		3										
24	48		24		32	0.00		0										
25	52		24		26	0.00												
26	46		22		25	0.00			2.92									
27	47		24		30	0.00			2.83									
28	48		30		38	0.01			2.70									
29	60		39		46	0.05			2.73									
30	75		46		65	0.00			2.65									
31	75		31		34	0.00												
Average	50		27		33	Total	2.50	7.5			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest	0.95	5.4										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	April 2018	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				reading after	maximum	time occurrence	minimum	time occurrence	watts per sq ft			time occurrence	
1	60		35		50	0.00												
2	63		40		38	0.07												
3	46		40		40	0.00			2.21									
4	69		40		64	0.02			2.16									
5	71		30		30	0.00												
6	50		31		42	0.00			1.80									
7	71		27		39	0.00												
8	45		28		30	T												
9	46		28		34	0.00			1.26									
10	47		30		37	0.01			1.24									
11	54		28		34	0.00			1.11									
12	58		34		47	0.00			0.99									
13	77		47		62	0.00												
14	85		60		66	0.00												
15	85		55		56	0.00												
16	65		49		56	1.43			1.53									
17	53		35		37	0.02			1.42									
18	48		29		34	0.00			1.32									
19	63		34		47	0.00			1.19									
20	60		32		37	0.02												
21	57		28		38	0.00												
22	62		36		39	0.00												
23	66		39		48	0.00												
24	70		48		52	0.00												
25	69		52		55	1.01												
26	65		45		46	0.02			1.38									
27	71		50		50	0.97			2.13									
28	63		44		50	0.03												
29	78		41		47	0.00												
30	57		32		48	0.01			1.70									
Average	62		38		45	Total	3.61	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest	1.43	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM May 2018		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	71		37		53	0.00			1.52									
2	82		46		51	0.00			1.30									
3	90		51		69	0.00			1.01	1.38								
4	91		64		67	0.00			1.09	1.48								
5	91		63		65	0.00												
6	72		55		59	T			1.13									
7	70		51		58	0.01			1.05									
8	73		44		57	0.00												
9	76		42		50	0.00			1.09									
10	78		52		64	0.00			0.89	1.28								
11	69		53		70	0.00			1.16	1.93								
12	72		58		64	0.00												
13	76		60		64	0.59												
14	66		56		61	0.23			2.28									
15	76		60		66	0.47			2.62									
16	89		63		66	0.49			2.88									
17	73		71		71	1.65			4.59	3.21								
18	67		60		62	1.49			4.56	2.79								
19	67		53		57	1.23												
20	70		52		70	0.09												
21	88		62		67	0.00			3.92									
22	79		59		62	0.00			3.69									
23	77		62		68	0.78												
24	80		54		64	0.00			4.18									
25	85		54		55	0.00			3.90									
26	87		54		78	0.00												
27	90		68		74	0.04												
28	85		61		61	0.09												
29	68		61		70	0.01			3.45									
30	84		61		64	T			3.35									
31	80		64		68	0.02			3.24									
Average	78		56		64	Total	7.19	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest	1.65	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	June 2018	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				reading after	maximum	time occurrence	minimum	time occurrence	watts per sq ft			time occurrence	
1	85		62		66	0.79			3.89									
2	88		62		70	0.02												
3	86		61		68	0.03												
4	71		49		53	3.18			O.F.	3.34								
5	78		48		69	0.00			3.21									
6	81		57		59	0.01			2.99									
7	76		56		58	0.00												
8	78		59		66	0.00												
9						0.00												
10						0.00												
11	85		53		55	0.89			3.10					three day max min				
12	75		51		47	0.04			3.19									
13	79		60		49	0.00			2.87									
14	84		68		51	0.00			2.73									
15	84		62		57	0.00			2.52									
16	85		51		60	0.00												
17	86		66		74	0.00												
18	90		67		67	0.00			1.76									
19	93		63		75	0.00			1.54									
20	92		64		69	0.39			1.83									
21	88		66		68	0.07			1.91									
22	82		66		69	0.00												
23	70		62		70	0.20												
24	80		63		73	T												
25	90		63		68	0.07			1.81									
26	84		54		54	0.00			1.61									
27	87		54		66	0.00			1.42									
28	82		66		72	T			1.36									
29	89		65		70	0.00			1.20	1.94								
30	91		68		76	0.00												
Average	84		60		64	Total	5.69	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest	3.18	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM July 2018		EASTERN				REMARKS	AVERAGE		SOLAR RADIATION			
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				WIND SPEED MPH	watts per sq ft	time occurrence	
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum		time occurrence	minimum				time occurrence
1	95		62		75	0.00			1.27									
2	96		74		74	0.00			0.97	1.73								
3	97		72		77	0.00			1.27									
4	96		72		72	0.00			1.03									
5	93		72		72	0.00												
6	93		75		75	0.00												
7	89		63		65	0.00												
8	79		52		62	0.00												
9	82		51		60	0.00			0.74	1.13								
10	88		59		62	0.00			0.86	1.25								
11	95		61		71	0.00			0.98	1.37								
12	96		61		62	0.00			1.09	1.47								
13	89		59		61	0.00			1.25	1.64								
14	86		57		66	0.00												
15	90		61		72	0.00												
16	88		67		70	0.00			0.92	1.69								
17	96		70		73	0.00			1.40									
18	90		60		65	1.79			2.93									
19	88		58		61	0.00			2.65									
20	87		57		60	0.00			2.37									
21	88		58		69	0.00												
22	75		58		63	4.56												
23	81		61		72	1.40			O.F.									
24	86		70		71	0.81			O.F.									
25	83		69		70	0.86			O.F.									
26	85		67		70	0.18												
27	90		65		68	0.00			O.F.	2.24								
28	91		66		68	0.00												
29	87		60		63	0.00												
30	84		62		65	0.00			1.68									
31	73		64		68	0.28			1.92									
Average	88		63		68	Total	9.88	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest	4.56	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		August 2018		EASTERN				REMARKS	AVERAGE		SOLAR RADIATION	
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				WIND SPEED MPH	watts per sq ft		time occurene			
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence							
1	85		68		72	0.51			2.29							0.00	0.00	0			
2	88		67		69	2.00			3.95	2.2						0.00	0.00	0			
3	87		67		69	0.00										0.00	0.00	0			
4	85		68		68	0.26										0.00	0.00	0			
5	87		66		68	0.00										0.00	0.00	0			
6	92		66		70	0.06			2.10							0.00	0.00	0			
7	92		67		69	0.04			1.94							0.00	0.00	0			
8	93		66		68	T			1.79							0.00	0.00	0			
9	93		67		75	0.00										0.00	0.00	0			
10	91		66		71	0.00			1.35							0.00	0.00	0			
11	91		67		71	0.00										0.00	0.00	0			
12	90		66		73	0.12										0.00	0.00	0			
13	86		67		69	0.18			1.15							0.00	0.00	0			
14	87		61		64	0.00			0.96							0.00	0.00	0			
15	85		64		67	0.00			0.74	1.48						0.00	0.00	0			
16	90		62		67	0.00			1.28							0.00	0.00	0			
17	91		67		71	0.00			1.08							0.00	0.00	0			
18	93		73		75	0.00										0.00	0.00	0			
19	90		72		71	0.00										0.00	0.00	0			
20	85		68		69	0.00			0.53	0.9						0.00	0.00	0			
21	80		66		71	0.00			0.83	1.2						0.00	0.00	0			
22	80		65		68	1.72			2.75							0.00	0.00	0			
23	83		59		60	0.01			2.61							0.00	0.00	0			
24	80		53		53	0.00			2.40							0.00	0.00	0			
25	83		53		55	0.00										0.00	0.00	0			
26	82		55		61	0.00										0.00	0.00	0			
27	87		61		66	0.00			1.83							0.00	0.00	0			
28	93		66		70	0.00			1.65							0.00	0.00	0			
29	95		70		73	0.00			1.44							0.00	0.00	0			
30	95		70		70	0.00			1.22							0.00	0.00	0			
31	92		71		71	0.00			1.03							0.00	0.00	0			
Average	88		65		68	Total	4.90	0.0			#DIV/0!				#DIV/0!	0.00	0.00				
						Greatest	2.00	0.0													

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION																								
UPPER MARLBORO				PRINCE GEORGE MD				7:00 AM	September 2018	EASTERN														
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP INCHES	reading after	WATER TEMP F				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION							
	maximum	time	minimum	time	present						maximum	time	minimum	time			occurrence	occurrence	occurrence	occurrence	watts per sq ft	time occurrence		
1	89		70		72	T																		
2	87		68		74	1.05			1.79															
3	89		69		71	0.00																		
4	93		70		71	0.00			1.40															
5	94		68		68	0.00			1.28															
6	94		68		71	0.00			1.09															
7	94		69		69	0.00			0.90															
8	89		68		69	0.30																		
9	75		56		57	0.67																		
10	66		57		58	1.17			2.82															
11	75		58		65	0.38			3.17															
12	75		65		66	0.01			3.12															
13	85		66		68	T			3.03															
14	81		67		67	0.01			3.01															
15	79		65		66	0.01																		
16	83		62		65	0.00																		
17	83		65		70	0.00			2.80															
18	80		70		72	0.12			2.87															
19	83		62		64	0.19			2.99															
20	85		61		65	0.00			2.82															
21	82		65		65	0.00			2.61															
22	78		65		74	0.18																		
23	79		55		56	0.20																		
24	65		56		59	0.91			3.82	2.76														
25	69		59		65	0.49			3.27															
26	82		65		69	0.01			3.21															
27	87		60		60	0.82			3.83															
28	67		53		54	0.62			4.38															
29	73		54		64	0.00																		
30	79		51		52	0.00																		
Average	81		63		66	Total	7.14	0.0																
					Greatest	1.17	0.0																	

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION																	
UPPER MARLBORO					PRINCE GEORGE MD			7:00 AM	November 2018	EASTERN							
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP INCHES	WATER TEMP F				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION	
	maximum	time	minimum	time	present					maximum	time	minimum	time			reading	occurrence
1	70		38		55	0.00			2.69								
2	77		55		67	0.00			2.58								
3	73		46		46	0.90											
4	61		31		32	0.00											
5	57		32		51	0.25			3.24								
6	59		42		42	1.33											
7	62		42		43	0.89			O.F.	2.4							
8	64		43		47	0.00			2.27								
9	60		39		40	0.03			2.12								
10	52		37		39	0.48											
11	45		26		35	0.00			2.43								
12	48		24		30	0.00											
13																	13 thru 17
14						0.00											5 day max & min
15						0.00											
16						2.17	1.0	1									
17	52		27		41	0.00			4.26	3.13							two day rain 13 & 17
18	49		24		32	0.00											
19	53		33		37	0.00			3.07								
20	60		37		43	0.00			3.04								
21	54		25		28	0.00			2.94								
22	53		26		28	0.00											
23	50		21		25	0.00											
24	34		24		31	0.00											
25	48		30		37	1.45											
26	62		36		47	0.01			4.09								
27	52		34		38	0.40			4.40								
28	44		31		31	0.00			4.24								
29	40		26		29	0.00											
30	41		26		34	0.00			4.15	2.81							
Average	55		33		39	Total 7.91	1.0				#DIV/0!					#DIV/0!	#DIV/0!
					Greatest		1.0										
S. No. 18-9070-4																	

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO					PRINCE GEORGE MD					7:00 AM	December 2018	EASTERN									
DATE	TEMPERATURE F				present	RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP INCHES	reading after	WATER TEMP F				REMARKS	AVERAGE			SOLAR RADIATION		
	maximum	time occurrence	minimum	time occurrence							maximum	time	minimum	time		WIND SPEED MPH	watts per sq ft	time occurrence			
1	46		25		31	0.00															
2	46		31		43	0.32															
3	60		45		49	0.02			3.10												
4	60		36		38	0.00															
5	43		25		29	0.00															
6	38		21		30	0.00			2.91												
7	43		26		29	0.00			Frozen												
8	42		16		18	0.00															
9	38		18		27	0.00															
10	33		25		26	0.00			Frozen												
11	38		18		20	0.00			Frozen												
12	43		23		26	0.00			Frozen												
13	46		29		32	0.00			Frozen												
14	52		30		32	0.00			Frozen												
15						0.00															
16						0.00															
17	55		33		39	3.23			O.F.	2.89										three day max min & rain	
18	54		33		33	0.00															
19	45		20		26	0.00			Frozen												
20	49		26		33	0.00			Frozen												
21	62		33		60	0.71															
22	65		41		44	0.02															
23	53		27		28	0.00			3.44												
24	51		28		34	0.00															
25	46		27		28	0.00															
26	42		19		21	0.00															
27	47		21		23	0.00															
28	50		23		49	0.45															
29	58		39		39	0.77															
30	56		33		35	0.00			4.34												
31	48		28		37	0.00															
Average	49		28		33	Total 5.52	0.0				#DIV/0!									#DIV/0!	#DIV/0!
						Greatest 3.23	0.0														
																					S. No. 18-9070-4