

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		January 2016		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 watts per sq ft	RADIATION time occurrence	
	maximum	time occurrence	minimum	time occurrence	present					INCHES	reading after	maximum	time occurrence	minimum	time occurrence					
1 1	56	1443	36	554	39		0.00					54	1500	40	657		0.52	1.75	1244	
1 2	45	1238	26	659	26		0.00					45	1423	36	658		0.52	1.65	1125	
1 3	49	1430	24	653	25		0.00					46	1536	36	659		0.52	1.62	1159	
1 4	55	1426	25	349	32		0.00			3.15		48	1531	35	741		0.52	1.65	1217	
1 5	37	1355	14	638	14		0.00			Frozen		40	1405	31	18		0.52	2.42	1159	
1 6	34	1529	10	658	11		0.00			Frozen		37	1526	31	810		0.52	1.64	1216	
1 7	43	1520	10	700	33		0.00			Frozen		40	1420	31	708		0.52	1.63	1149	
1 8	44	1250	33	705	38		0.00					40	1233	33	722		0.52	1.27	1230	
1 9	42	2353	38	702	40		0.05					39	1509	36	742		0.52	0.36	1038	
1 10	59	700	40	702	59		0.40					52	659	37	738		0.52	1.37	1355	
1 11	63	1317	26	659	26		0.49			3.85		62	1401	35	659		0.52	2.64	1103	
1 12	41	1415	21	311	29		0.00			Frozen		41	1425	34	659		0.52	1.70	1203	
1 13	47	1453	20	655	20		T	T	0	Frozen		40	1532	31	654		0.52	1.73	1442	
1 14	30	1525	19	742	23		0.00			Frozen		40	1419	31	721		0.52	2.00	1319	
1 15	53	1530	22	731	30		0.00			3.59		41	1454	33	733		0.52	1.63	1208	
1 16	52	1145	30	840	42		0.32					44	1320	37	841		3.04	1.32	1139	
1 17	54	1305	29	341	30		0.00					51	1428	38	650		3.96	2.55	1122	
1 18	35	1524	18	659	18		0.08	0.4	T			40	1526	32	659		1.19	1.15	1525	
1 19	25	1351	13	612	13		0.00		0	Frozen		39	1502	31	14		5.25	1.90	1259	
1 20	27	1514	13	720	16		0.00			Frozen		36	1442	31	2121		8.03	1.82	1247	
1 21	31	1407	16	729	22		0.03	0.9	1	Frozen		37	1414	31	559		3.17	1.91	1209	
1 22	34	1307	18	503	21		0.00					36	1403	31	706		4.58	2.26	1255	
1 23	27	1210	21	710	25		1.46	12.0	12			33	1210	31	714		8.66	0.49	1005	
1 24	29	153	19	654	19		0.48	6.1	18			32	1406	32	927		13.43	0.60	1106	
1 25	35	1554	8	641	8		0.00		16	Frozen		32	1548	32	618		3.09	1.77	1210	
1 26	43	1326	8	718	37		0.00		13	Frozen		32	1436	32	806		2.66	2.02	1111	
1 27	56	1604	37	701	39		T		8	Frozen		36	1531	32	733		6.87	1.81	1331	
1 28	43	1451	16	645	16		0.00		7	Frozen		43	1501	32	659		4.04	2.59	1159	
1 29	43	1332	16	721	26		0.00		5	Frozen		45	1350	32	710		2.33	1.96	1218	
1 30	43	944	18	654	18		0.00		4	Frozen		44	1519	32	653		6.56	2.54	1330	
1 31	46	1445	17	725	40		0.00		2			45	1521	32	729		4.83	2.20	1138	
Average	43		21		27	Total	3.31	19.4				42		33			2.89	1.74		
						Greatest	1.46	12.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM	February 2016	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				time occurrence			watts per sq ft	time occurrence
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence					
2 1	62	1310	39	707	51	0.00		1	4.27	2.91	45	1310	35	725		7.27	1.67	1124	
2 2	63	1230	30	643	31	0.08		T			58	1402	39	659		2.91	2.09	1216	
2 3	52	1417	31	713	42	0.00		0	2.88		56	1544	39	808		3.02	1.49	1219	
2 4	61	1241	42	700	51	0.49			3.37		56	506	42	714		4.81	0.53	1203	
2 5	52	700	33	304	36	0.10					54	701	36	659		7.70	0.56	1311	
2 6	43	1424	22	648	22	0.08	T				46	1532	35	654		4.53	2.11	1139	
2 7	45	1428	22	708	23	0.00					44	1604	35	728		2.57	2.10	1144	
2 8	44	1328	23	700	31	0.00			3.32		41	1520	35	721		4.52	1.12	1244	
2 9	47	1241	31	703	34	0.08			3.42		49	1528	35	738		5.11	2.25	1202	
2 10	40	1456	28	347	30	0.14	0.1	0	3.56		42	1608	33	655		2.63	1.77	1454	
2 11	39	1444	20	645	20	0.00			Frozen		42	1452	31	504		8.12	2.01	1153	
2 12	29	1412	14	649	14	0.00					40	1503	31	637		6.74	2.08	1256	
2 13	32	1349	14	702	20	0.00					41	1426	31	702		4.06	2.05	1202	
2 14	24	1247	10	647	11	T					40	1418	31	2107		9.23	2.24	1311	
2 15	27	1513	10	715	20	0.12	1.9	2	Frozen		41	1454	31	2136		4.36	1.67	1216	
2 16	50	655	20	700	49	0.31	1	2			32	700	31	1935		2.34	0.62	1039	
2 17	53	952	27	544	29	0.54		0	Frozen		45	1559	32	700		5.09	2.17	1415	
2 18	47	1227	29	702	31	0.00					46	1344	35	726		4.54	2.56	1224	
2 19	39	1338	17	542	17	0.00			Frozen		45	1227	33	700		5.29	1.80	1213	
2 20	46	620	17	700	45	0.00					41	1345	33	704		7.16	1.51	1347	
2 21	65	1615	45	704	49	0.00					53	1732	38	701		6.03	1.43	1322	
2 22	59	1342	39	659	39	0.10			4.07		53	1641	44	658		2.27	1.21	907	
2 23	53	1430	37	2228	39	0.15			4.15	3.14	58	1553	42	655		2.41	2.05	1155	
2 24	43	1644	38	749	41	0.42			3.52		44	1416	41	642		4.38	0.44	1032	
2 25	64	1720	41	700	46	0.49					60	1926	41	701		10.05	0.86	1359	
2 26	50	955	32	524	34	0.00			3.91		47	1018	36	654		9.68	1.94	956	
2 27	41	1420	22	636	22	0.00					48	1526	35	656		6.95	2.10	1059	
2 28															Data logger malfunction				
2 29	66	729				0.00			3.52		63	656							
Average	48		27		33	Total	3.10	3.0			47		36			5.32	1.65		

Greater: 0.54 1.9

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	March 2016		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
3 1	62	1604	31	541	31	0.00			3.32		63	1605	39	658		1.57	0.76	1603
3 2	65	1355	31	700	41	0.02			3.29		64	1441	39	745		9.89	1.57	1220
3 3	42	1328	22	629	23	0.00					52	1441	34	648		8.10	1.68	1116
3 4	43	1339	23	705	31	0.08	1.5	1			46	1505	34	700		2.97	2.01	1208
3 5	40	1412	30	53	32	0.00		0			43	1416	36	658		5.68	2.12	1227
3 6	45	1412	32	704	35	0.00					47	1533	36	714		2.28	1.56	1436
3 7	51	1623	29	123	35	0.00					49	1643	37	652		2.13	1.16	1544
3 8	67	1456	34	709	46	0.00			2.95		65	1609	37	702		5.87	1.54	1220
3 9	78	1543	43	650	43	0.00			2.78		73	1558	47	655		3.48	1.48	1215
3 10	82	1500	43	700	63	0.00			2.58		76	1508	47	735		5.75	1.32	1255
3 11	81	1415	61	659	61	0.00					75	1444	56	702		8.29	1.24	1043
3 12	73	1531	41	359	46	0.00					75	1545	46	655		3.16	1.48	1225
3 13	57	1317	46	710	52	0.02			2.22		54	1452	46	703		1.64	0.50	1111
3 14	59	1145	47	356	48	0.25					56	1352	48	537		4.10	0.49	1142
3 15	52	1255	44	413	45	0.04			2.51		54	1453	46	643		4.89	0.52	1221
3 16	62	1646	41	534	42	0.01					63	1620	46	712		1.41	2.06	1314
3 17	72	1401	40	557	41	0.00			2.35		75	1406	46	715		3.80	1.54	1401
3 18	69	1459	41	700	43	0.00					68	1508	42	659		4.36	2.11	1222
3 19	66	1356	41	459	43	0.00					65	1356	41	636		5.58	1.98	1207
3 20	44	858	35	2229	38	0.14			2.22		44	1402	38	637		3.95	0.37	859
3 21	42	1036	33	407	37	0.03			2.22		43	1443	37	618		4.12	0.53	1029
3 22	52	1618	26	412	29	0.00			1.96		60	1415	37	627		6.39	1.81	1329
3 23	63		28			0.00			1.79						Datalogger malfunction			
3 24	76	1508	44	2040	53	0.00			1.58		74	1528		2040		5.06	1.85	1211
3 25	78	1445	53	700	65	0.00					85	1649	58	710		0.52	1.40	1155
3 26	72	1512	38	632	39	0.02			1.21		79	1626	49	659		0.52	1.51	1056
3 27	62	1505	39	700	48	0.12					70	1617	49	724		0.52	1.36	1155
3 28	56	1439	47	101	48	0.05					65	1549	58	400		0.52	0.47	1203
3 29	70	1321	46	445	47	0.00			1.04		75	1518	54	653		0.52	1.94	1203
3 30	60	1451	29	603	32	0.00			0.87	2.24	67	1722	39	656		0.52	1.47	1159
3 31	63	1557	32	700	58	0.00					71	1657	39	701		0.52	1.48	1230
Average	61		38		43	Total	0.78	1.5			63		43			3.60	1.38	
						Greatest	0.25	1.5										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE		MD		7:00 AM		April 2016		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							
4 1	75	1412	58	700	69	0.00					81	1720	64	700		0.52	1.63	1219			
4 2	82	1531	50	659	50	0.07					88	1647	66	700		0.52	1.96	1124			
4 3	62	1353	35	613	36	0.10					69	1654	46	700		0.52	1.98	1158			
4 4	54	659	36	707	54	0.00			1.55		61	1811	46	729		0.52	1.56	1148			
4 5	66	1513	28	558	30	0.12			1.45		79	1514	39	659		0.52	0.38	1521			
4 6	45	1619	24	528	29	0.00			1.37		53	1746	32	632		0.52	1.54	1217			
4 7	56	1454	29	700	54	0.00					64	1654	32	700		0.52	1.54	1204			
4 8	65	1524	42	418	45	0.46			1.55		70	1620	50	557		0.52	2.24	1229			
4 9	54	1639	37	109	39	0.08					62	1733	47	247		0.52	2.29	1120			
4 10	50	1442	26	548	32	0.21					56	1649	36	647		0.52	1.73	1443			
4 11	53	1550	32	702	48	0.00			1.56		62	1720	36	700		0.52	1.85	1229			
4 12	74	1532	48	703	59	0.00			1.32		80	1740	55	703		0.52	2.26	1047			
4 13	64	1458	38	541	43	0.16			1.25		71	1639	48	641		0.52	1.75	1207			
4 14	58	1428	31	535	39	0.00			1.10		68	1721	41	635		0.52	1.56	1150			
4 15	63	1412	34	529	40	0.00			0.93	2.22	72	1644	41	700		0.52	1.51	1205			
4 16	63	1324	35	555	45	0.00					73	1704	45	700		0.52	1.52	1211			
4 17	70	1430	36	536	43	0.00					78	1701	46	700		0.52	1.50	1151			
4 18	76	1616	42	512	52	0.00			1.71		82	1728	47	700		0.52	1.50	1154			
4 19	84	1442	52	539	55	0.00			1.47		90	1706	53	700		0.52	1.51	1143			
4 20	84	1133	40	600	51	0.00			1.20		91	1509	52	644		0.52	1.54	1155			
4 21	73	1456	43	419	50	0.00			0.98	2.95	81	1632	52	700		0.52	1.50	1151			
4 22	78	1451	50	700	66	0.00			2.76		84	1743	54	700		0.52	1.77	1032			
4 23	75	1105	62	358	63	0.07					83	1320	72	621		0.52	1.40	1522			
4 24	70	1543	39	547	49	0.00					75	1743	49	635		0.52	1.86	1259			
4 25	71	1610	44	414	52	0.00			2.44		78	1718	50	700		0.52	1.53	1202			
4 26	80	1343	52	702	69	0.00			2.29		88	1642	56	700		0.52	1.58	1341			
4 27	87	1440	53	656	53	0.00			2.01		93	1718	68	700		0.52	2.05	1311			
4 28	55	1549	51	2324	54	0.04			2.02		68	700	62	201		0.52	0.36	1027			
4 29	54	726	46	2302	47	0.39					63	1435	56	229		0.52	0.47	1134			
4 30	54	1410	47	706	49	0.05			2.29		63	1643	57	700		0.52	0.57	1404			
Average	66		41		49	Total	1.75	0.0			74		50			0.52	1.55				
						Greatest	0.46	0.0													

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	May 2016	EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION watts per sq ft	RADIATION time occurrence
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F							
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence				
5 1	57	1455	49	706	51	0.28					67	1633	59	709		0.52	1.02	837
5 2	56	1517	51	710	55	0.30			2.99		65	1729	60	701		0.52	0.89	1137
5 3	79		53	6	59	0.36			3.20			20		6	weather station malfunction		1.49	
5 4	70		51	702	51	0.17			3.25			601		702			2.88	
5 5	59		47	701	47	0.03			3.27			710		701			1.16	
5 6	55	57	48	2145	50	0.04			3.25		63	223	61	2141			1.06	
5 7	54	113	49	2040	50	1.20					63	225	60	659		0.52	0.79	
5 8	65	41	49	1511	56	0.08			4.41		73	322	59	1543		0.52	3.67	
5 9	71	51	40	1436	49	0.01			4.29		77	206	62	1554		0.52	2.65	
5 10	65	242	49	1339	55	0.04			4.20		72	338	52	1521		0.52	1.77	
5 11		156		1151		0.25			4.33		73	256	65	1514		0.52	2.36	
5 12	60	1720	52	1348	58	0.12			4.47	3.2	69	1843	62	1535		0.52	0.70	1639
5 13	66	1552	58	701	63	0.00			3.16		75	1801	67	700		0.52	1.04	1346
5 14	77	1700	48	517	58	0.00					82	1834	59	609		0.52	3.15	1450
5 15	77	1333	47	446	51	0.16			3.03		83	1436	56	608		0.52	3.34	1247
5 16	61	1253	39	128	50	0.00			2.83		69	1647	50	530		0.52	3.33	1313
5 17	67	1651	50	701	55	0.00			2.62		74	1740	51	700		0.52	2.58	1148
5 18	56	746	52	2313	53	0.33			2.95		66	1739	62	514		0.52	0.53	1429
5 19	65	1338	53	705	56	0.00			2.87		74	1659	63	700		0.52	3.02	1324
5 20	73	1519	46	504	57	0.00			2.74		81	1727	57	601		0.52	4.35	1157
5 21	76	1239	54	659	54	0.00					83	1618	58	700		0.52	2.81	1148
5 22	57	1312	53	433	53	1.09			2.62		67	700	63	657		0.52	1.27	1255
5 23	58	1436	52	808	57	0.33			3.94		67	1653	63	852		0.52	0.87	1408
5 24	73	1513	55	517	61	0.13			3.96		80	1608	65	700		0.52	3.20	1242
5 25	83	1538	55	413	70	0.00			3.73		88	1754	65	558		0.52	2.87	1331
5 26	87	1429	57	454	66	0.00			3.46		93	1646	67	700		0.52	2.94	1109
5 27	90	1513	66	700	74	0.00			3.23		97	1723	68	700		0.52	2.48	1138
5 28	90	1431	67	451	72	0.00					98	1629	78	612		0.52	2.71	1233
5 29	90	1256	61	444	69	0.00					97	1637	72	617		0.52	2.26	1227
5 30	85	1359	66	2134	69	0.53					94	1506	73	700		0.52	2.62	1332
5 31	81	1321	65	448	69	0.33			3.34		90	1424	75	554		0.52	2.78	1315
Average	70		53		58	Total	5.78	0.0			78		63			0.52	2.21	
						Greatest	1.20	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		June 2016		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			time occurrence			
6 1	86	1539	63	452	73	0.00			3.19		94	1712	74	601		0.52	2.76	1109		
6 2	87	1505	64	248	67	0.00			2.98		94	1610	75	700		0.52	2.61	1048		
6 3	81	1404	67	701	69	0.00			2.92		90	1648	76	700		0.52	3.55	1045		
6 4	78	1346	68	56	70	0.00					86	1526	79	623		0.52	3.34	1337		
6 5	82	1520	70	702	72	0.00					91	1700	79	700		0.52	2.82	944		
6 6	85	1604	67	2217	72	0.37			2.94		92	1658	77	536		0.52	3.49	1223		
6 7	87	1501	68	510	73	0.00			2.79		94	1611	78	700		0.52	3.21	1144		
6 8	86	1425	56	503	66	0.00			2.63		93	1505	68	603		0.52	3.41	1312		
6 9	72	857	48	353	62	0.00			2.26		80	1553	58	548		0.52	3.23	1047		
6 10	81	1559	60	511	67	0.00			1.79		88	1750	60	700		0.52	2.34	1212		
6 11	82	1544	59	420	68	0.00					89	1750	70	547		0.52	2.37	1228		
6 12	92	1542	68	700	80	0.00					100	1724	71	700		0.52	2.16	1104		
6 13	91	1354	61	456	65	0.00			1.19		99	1429	72	615		0.52	2.18	1122		
6 14	80	1536	65	701	69	0.00			0.97		89	1724	73	700		0.52	1.53	1141		
6 15	81	1609	58	221	65	0.00			0.78	2.18	90	1653	69	330		0.52	1.34	1140		
6 16	83	1628	65	705	70	0.00			2.03		91	1727	71	700		0.52	1.59	1200		
6 17	85	1421	63	438	66	0.46			2.30		94	1619	74	635		0.52	1.46	1215		
6 18	81	1547	59	522	70	0.00					89	1750	70	603		0.52	1.46	1014		
6 19	85	1457	59	518	69	0.00					92	1638	70	602		0.52	1.16	1146		
6 20	89	1450	63	509	71	0.00			1.66		97	1707	72	700		0.52	1.14	1149		
6 21	91	1544	71	701	76	0.00			1.41		100	1702	75	700		0.52	1.16	1148		
6 22	91	1159	67	525	72	1.01			2.27		98	1304	77	602		0.52	1.47	1142		
6 23	82	1316	66	215	69	0.25			2.35		89	1457	77	353		0.52	1.61	1124		
6 24	81	1458	68	327	71	0.21			2.48		90	1657	78	700		0.52	1.28	1221		
6 25	85	1256	70	510	71	0.00					93	1504	79	612		0.52	1.96	1124		
6 26	82	1438	59	456	68	0.00					91	1722	70	556		0.52	1.58	1223		
6 27	84	1255	60	444	69	0.00			1.90		92	1651	71	546		0.52	1.66	1154		
6 28	87	1424	69	704	73	0.27			2.00		95	1620	72	700		0.52	1.94	1412		
6 29	84	1503	64	450	70	0.72			2.58		94	1719	75	558		0.52	2.37	1334		
6 30	81	1612	59	500	68	0.00			2.32		88	1625	69	559		0.52	2.10	1103		
Average	84		64		70	Total	3.29	0.0			92		73			0.52	2.14			
						Greatest	1.01	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION																		
ER MARLBORO PRINCE GEORGE																		
DATE	TEMPERATURE F					MD RAIN, MELTED PRECIP	SNOW, ICE, HAIL	0.3 SNOW, ICE ON GROUND	July 2016 EVAP	EASTERN WATER TEMP F				REMARKS	AVERAGE WIND SPEED	AR RADIATION		
	maximum	time occurrence	minimum	time occurrence	present					reading	maximum	time occurrence	minimum			time occurrence	watts per sq ft	time occurrence
						INCHES	INCHES	INCHES	INCHES	after					MPH			
7 1	83	1253	65	444	73	0.00					91	1548	71	700		0.52	2.32	1404
7 2						0.62											2.00	
7 3	80	1408	62	620	62	0.05		2.43			87	1714	74	700		0.52	2.00	1306
7 4	73	1249	62	700	67	0.10					82	1541	73	826		0.52	2.12	1225
7 5	75	655	67	700	75	0.24		2.71			83	509	76	700		0.52	0.95	655
7 6	91	1511	73	434	78	0.00		2.50			98	1636	83	700		0.52	2.68	1028
7 7	93	1519	72	444	79	0.00		2.32			102	1702	83	556		0.52	2.75	1037
7 8	92	1424	72	436	81	0.00		2.09			102	1612	84	603		0.52	2.45	1344
7 9	91	1227	72	254	76	0.28					100	1443	82	609		0.52	2.70	1247
7 10	90	1329	66	511	74	0.00					97	1459	77	610		0.52	2.59	1206
7 11	85	1612	63	444	73	0.12		1.91			92	1735	74	612		0.52	2.96	1144
7 12	86	1501	64	441	71	0.00		1.72			95	1636	74	601		0.52	2.49	1154
7 13	86	1447	71	706	76	0.33		1.84			94	1710	75	700		0.52	2.54	1314
7 14	90	1339	72	524	76	0.00		1.70			98	1515	83	700		0.52	2.56	1104
7 15	94	1410	73	455	77	0.00		1.42			102	1652	84	607		0.52	2.35	1307
7 16	91	1402	70	500	76	0.00					99	1812	81	604		0.52	2.68	1147
7 17	91	1448	66	532	72	0.72		1.71			101	1536	76	606		0.52	2.39	1337
7 18	91	1602	72	700	78	0.00		1.48			98	1719	77	700		0.52	2.16	1235
7 19	92	1345	70	424	76	0.10		1.36			100	1541	80	551		0.52	2.09	1359
7 20	90	1331	64	351	70	0.75		1.92			95	1606	74	608		0.52	2.50	1219
7 21	85	1530	63	520	72	0.00		1.72			92	1715	72	614		0.52	2.38	1248
7 22	88	1432	69	349	75	0.00		1.50			93	1553	73	700		0.52	2.10	1306
7 23	92	1433	74	357	82	0.00					99	1710	78	700		0.52	2.12	1106
7 24	96	1457	72	534	78	0.01		1.05			104	1602	83	626		0.52	1.67	1247
7 25	93	1521	72	2339	79	0.46		1.27			102	1627	82	612		0.52	1.58	1108
7 26	96	1413	74	524	78	0.00		1.03			104	1553	83	701		0.52	1.33	1151
7 27	94	1440	76	528	78	0.00		0.80	1.16		103	1523	85	700		0.52	1.59	1147
7 28	94	1551	75	504	81	0.00		0.95			103	1703	86	600		0.52	1.07	1108
7 29	93	1530	72	505	72	1.06		1.81			102	1601	82	700		0.52	1.05	1215
7 30	90	1524	71	408	75	0.00					96	1713	81	552		0.52	0.95	1304
7 31	88	1224	71	303	73	1.25		2.69			94	1409	81	611		0.52	1.10	1150
Average	89		69		75	Total	6.09	0.0			97		79			0.52	2.07	
						Greatest	1.25	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM August 2016		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				
8 1	89	1606	72	254	76	0.45			2.94		98	1651	81	700	0.52	0.97	1341	
8 2	89	1357	71	441	75	0.00			2.79		98	1550	80	551	0.52	1.14	1043	
8 3	87	1401	67	346	72	0.00					96	1628	77	610	0.52	1.20	1256	
8 4	82	1458	63	504	71	0.00			2.38		91	1603	74	615	0.52	1.13	1225	
8 5	84	1356	66	231	71	0.00			2.19		92	1701	74	700	0.52	1.07	1312	
8 6	83	1310	71	710	75	0.15					91	1445	77	700	0.52	1.00	1309	
8 7	91	1303	66	540	73	0.00			2.03		99	1414	77	634	0.52	0.90	1234	
8 8	89	1414	64	511	70	0.00			1.82		96	1555	74	615	0.52	0.96	1209	
8 9	90	1228	62	453	67	0.00			1.65		96	1358	72	556	0.52	0.99	1152	
8 10	81	1133	67	701	77	T			1.62		89	1655	72	700	0.52	0.71	1136	
8 11	91	1511	76	530	79	0.00			1.36		99	1658	84	700	0.52	0.81	1105	
8 12	94	1330	77	2349	80	0.00			1.19		102	1624	85	700	0.52	0.80	1216	
8 13	95	1422	78	144	82	0.00					103	1653	87	700	0.52	0.75	1236	
8 14	96	1549	78	458	82	0.00					105	1658	88	629	0.52	0.72	1231	
8 15	97	1456	71	520	76	0.10			0.47	2.29	105	1545	81	622	0.52	0.85	1227	
8 16	94	1439	72	536	75	0.41			2.47		102	1606	81	700	0.52	0.65	1212	
8 17	93	1531	75	508	79	0.00			2.24		101	1700	82	700	0.52	0.81	954	
8 18	93	1425	71	2055	74	0.38			2.41		102	1622	82	553	0.52	0.86	1140	
8 19	90	1555	69	546	74	0.00			2.21		98	1727	79	642	0.52	0.92	1152	
8 20	89	1302	67	555	71	0.00					97	1523	77	630	0.52	0.80	1254	
8 21	89	1335	70	332	76	0.00					98	1708	77	700	0.52	0.73	1246	
8 22	89	1403	63	351	69	0.82			2.54		94	1508	73	632	0.52	0.93	1118	
8 23	84	1457	59	608	66	0.00			2.33		90	1709	69	635	0.52	0.93	1249	
8 24	83	1449	60	403	65	0.00			2.13		91	1656	69	700	0.52	1.01	1312	
8 25	86	1450	65	700	71	0.00			1.93		94	1632	70	700	0.52	0.95	1300	
8 26	88	1307	71	702	78	0.00			1.77		96	1726	76	700	0.52	0.82	1321	
8 27	94	1507	71	550	75	0.00					102	1647	82	645	0.52	0.84	1305	
8 28	91	1443	67	414	71	0.00					99	1703	77	631	0.52	0.64	1204	
8 29	88	1455	65	354	70	0.00			1.17		97	1657	76	631	0.52	0.64	1151	
8 30	93	1605	66	604	71	0.00			1.00	1.82	101	1731	76	700	0.52	0.65	1230	
8 31	90	1405	63	601	68	0.00			1.63		98	1612	75	642	0.52	0.63	1349	
Average	89		68		74	Total	2.31	0.0			97		78		0.52	0.86		
						Greatest	0.82	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		September 2016		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			time occurrence	watts per sq ft			time occurrence	
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum						
9 1	91	1340	68	700	73	0.00			1.43		99	1651	75	700	0.52	0.80	1216		
9 2	81	1626	60	446	65	0.01			1.37		89	1702	72	651	0.52	0.77	1112		
9 3	80	1245	65	702	69	0.00					87	1635	72	700	0.52	0.75	1239		
9 4	79	1505	63	523	65	0.00					86	1700	73	644	0.52	0.90	1213		
9 5	81	1536	56	554	59	0.00					89	1717	66	650	0.52	0.92	1141		
9 6	86	1537	59	700	70	0.00					94	1749	66	700	0.52	0.71	1415		
9 7	91	1552	64	359	69	0.00			0.59	1.28	98	1722	74	700	0.52	0.64	1153		
9 8	93		63		70	0.32			1.46								permanent malfunction of weather station, begin manual readings		
9 9	96		70		72	0.00			1.27										
9 10	95		70			0.00													
9 11	96		70			0.00													
9 12	85		55		55	0.00			1.07										
9 13	84		55		64	0.00			1.32	1.81									
9 14	89		55		60	0.00			1.62										
9 15	93		60		65	0.00			1.38										
9 16	75		53		53	0.00			1.27	2.06									
9 17	75		58			0.00													
9 18	83		64			0.00													
9 19	90		66		70	0.62			2.23										
9 20	75		65		65	0.52			2.77										
9 21	77		65		66	T			2.71										
9 22	81		60		60	0.00			2.62										
9 23	88		56		56	0.00			2.44										
9 24	90		56			0.00													
9 25	75		48			0.00			2.24										
9 26	75		48		55	0.00			2.08										
9 27	69		55		63	0.70			2.73										
9 28	76		55		61	0.00			2.63										
9 29	69		60		64	1.84			4.37										
9 30	68		57		57	2.51			O.F.										
Average	83		59		63	Total	6.52	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!			
						Greatest	2.51	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	October 2016	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
10 1	64		59			0.00												
10 2	66		60			0.09												
10 3	76		58		58	0.44			O.F.	2.24								
10 4	76		50		50	0.00			2.12									
10 5	77		50		50	0.00			2.02									
10 6	70		55		50	0.00			1.93									
10 7	70		55		57	0.00			1.87									
10 8	75		55			1.20												
10 9	66		49			0.12												
10 10	68		43		43	0.00			2.89									
10 11	64		35		35	0.00			2.77									
10 12	67		35		38	0.00			2.69									
10 13	70		35		47	0.00			2.61									
10 14	72		38		38	0.00			2.52									
10 15	66		37			0.00												
10 16	72		37			0.00			2.32									
10 17	75		50		50	0.00			2.24									
10 18	85		50		56	0.00			2.13									
10 19	85		50		63	0.00			2.02									
10 20	88		60		60	0.00			1.92									
10 21	83		58		59	0.00												
10 22	61		45			0.31												
10 23	59		41			0.00												
10 24	62		42		48	0.00			1.68									
10 25	69		38		38	0.00			1.56									
10 26	62		30		31	0.00			1.44									
10 27	60		31		42	0.00			1.38									
10 28	63		42		49	0.11			1.46									
10 29	62		35			0.00												
10 30	76		36			0.00			1.30									
10 31	82		45		45	0.01			1.19									
Average	71		45		48	Total 2.28	0.0				#DIV/0!			#DIV/0!	#DIV/0!			
					Greatest	1.20	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE				MD	7:00 AM	November 2016		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			
11 1	61		37		41	0.00			1.09								
11 2	60		41		48	0.00			1.04								
11 3	72		48		53	0.00			0.99								
11 4	81		52		52	0.01			0.90	1.25							
11 5	62		33			0.00			1.14								
11 6	66		33			0.00											
11 7	68		33		34	0.00			0.96								
11 8	61		29		30	0.00			0.90								
11 9	70		30		49	0.07			0.89								
11 10	63		35		35	0.15			0.99								
11 11	61		35		40	0.00			0.92								
11 12	65		31			0.00											
11 13	52		27			0.00			0.75	1.74							
11 14	59		27			0.00											
11 15	50		28			0.00											
11 16	61		33			0.00											
11 17	62		34			0.00											
11 18	58		34			0.00											
11 19	74		36			0.00											
11 20	74		35			0.00											
11 21	46		30		33	0.00			1.16								
11 22	45		25		31	0.00			1.06								
11 23	49		22		22	0.00			1.04								
11 24	54		22			0.00											
11 25	61		35			0.00											
11 26	60		35			0.00											
11 27	53		27			0.00											
11 28	54		27		24	0.00			0.80								
11 29	61		24		56	0.03			0.84								
11 30	65		51		56	0.08			0.93								
Average	61		33		40	Total 0.34	0.0			#DIV/0!		#DIV/0!		#DIV/0!	#DIV/0!		
						Greatest 0.15	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	December 2016		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		49		49	0.38			1.27									
2	58		39		41	0.00			1.14									
3	53		38			0.00												
4	50		32		38	0.00			0.98									
5	48		37		39	0.29			1.25	2.03								
6	55		36		39	0.00			1.92									
7	45		38		39	1.06			2.98									
8	51		27		32	0.00			2.93									
9	51		26		28	0.00			2.86									
10	40		25		27	0.00			Frozen									
11	37		21		25	0.00			Frozen									
12	45		25		40	0.21			2.91									
13	54		33		33	0.01			2.90									
14	47		33		34	0.00			2.86									
15	48		25		25	0.00			Frozen									
16	27		13		14	0.00			Frozen									
17	31		14			0.00												
18	61		25			0.00												
19	66		27		27	0.00			Frozen									
20	36		17		17	0.00			Frozen									
21	41		17		20	0.00			Frozen									
22	51		20		39	0.00			2.89									
23	56		22			0.00												
24	49		23			0.25												
25	49		30			0.18												
26	52		28			0.00												
27	57		36		38	0.00			3.24									
28	65		35			0.00												
29	48		27			0.09												
30	50		27		33	0.19												
31	42		20			T	T	0	3.38									
Average	49		28		32	Total Greatest	2.66 1.06	0.0 0.0			#DIV/0!		#DIV/0!	#DIV/0!				