

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		January 2015		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	37	1322	17	254	20		0.00					42	1441	33	657		2.40	0.01	733
1 2	43	1343	19	709	29		0.00					42	1412	33	758		5.05	0.01	756
1 3	46	1424	26	59	35		0.10			1.77		42	1313	34	744		1.20	0.01	250
1 4	47	637	33	753	47		0.05					39	1425	34	736		1.75	0.08	927
1 5	65	1806	39	643	40		0.30			2.27		56	2005	39	701		10.84	0.01	2005
1 6	41	1058	20	608	21		0.08	0.8	1	Frozen		46	1414	33	659		7.11	0.01	334
1 7	30	1327	15	2125	17		0.08	1.2	2	Frozen		41	1354	33	746		0.99	0.01	1540
1 8	26	1312	8	700	8		0.00		2	Frozen		43	1401	31	2350		9.93	0.01	533
1 9	26	700	8	714	26		0.00		2	Frozen		38	1402	31	1934		8.69	0.01	840
1 10	39	1406	16	659	16		0.00		1			34	1416	31	245		5.80	0.01	512
1 11	28	1452	8	615	8		0.00		1			35	1329	31	639		2.92	0.01	513
1 12	42	1442	8	705	33		0.10		T	Frozen		32	1443	31	1015		2.21	0.02	202
1 13	39	2351	33	709	34		0.86		0	Frozen		32	1340	31	720		3.21	0.04	1512
1 14	34	700	22	651	22		T	0.1	T	Frozen		33	1412	31	659		6.65	0.01	2343
1 15	31	1546	22	706	29		T	T	0	Frozen		32	1545	31	756		4.08	0.01	801
1 16	40	1419	22	607	24		0.00			Frozen		33	1406	31	649		2.14	0.01	254
1 17	44	1436	22	656	22		0.00					37	1455	31	706		4.68	0.01	717
1 18	37	1358	21	752	34		0.10					40	1422	32	724		5.39	0.05	1528
1 19	41	1533	31	204	38		0.72					35	1533	32	712		1.07	0.08	1104
1 20	47	1551	23	524	25		0.00			Frozen		42	1524	33	716		2.95	0.01	2323
1 21	47	1510	25	700	30		T	0.1	0	Frozen		43	1528	34	736		0.68	0.01	952
1 22	35	1111	30	701	32		0.10	1.0	1	Frozen		39	1614	33	659		0.89	0.17	1620
1 23	46	1226	22	650	23		0.00			Frozen		51	1441	33	742		3.17	0.45	1054
1 24	43	1245	22	732	34		1.17	T	0			50	1453	37	749		2.71	0.04	1807
1 25	41	1632	34	700	36		0.00					45	1525	37	656		5.87	0.03	838
1 26	51	1443	34	809	34		0.00			4.84	2.24	51	1418	37	725		2.92	0.07	557
1 27	34	700	25	105	27		0.10	0.9	1	Frozen		41	710	32	644		1.55	0.10	916
1 28	35	1456	20	642	20		0.23	T	T	Frozen		42	1503	32	656		7.17	0.06	1236
1 29	36	1426	15	658	16		0.00					43	1431	32	721		4.24	0.01	750
1 30	39	537	15	715	37		0.03	T	0	2.45		43	1227	32	710		3.65	0.03	1711
1 31	41	1119	17	607	17		0.00					43	1423	31	345		11.38	0.01	2306
Average	40		22		27	Total	4.02	4.1				41		33			4.30	0.04	
						Greatest	1.17	1.2											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM	February 2015		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	33	1553	17	733	22	0.00					45	1249	31	709		3.96	0.01	917		
2 2	41	1442	22	703	36	0.09			Frozen		42	1442	32	734		2.02	0.04	2238		
2 3	46	1413	21	350	21	0.22			Frozen		42	1508	31	658		9.48	0.11	931		
2 4	37	1611	21	715	28	0.00			Frozen		43	1342	31	711		3.17	0.01	804		
2 5	54	1543	27	733	39	0.00			Frozen		45	1454	32	715		4.61	0.01	800		
2 6	39	700	10	639	10	0.00					46	1416	31	655		10.09	0.01	524		
2 7	34	1308	10	714	23	0.00					43	1248	31	708		3.15	0.01	743		
2 8	50	1518	23	702	31	0.00					43	1402	32	709		1.99	0.01	1126		
2 9	69	1520	30	711	37	0.00			2.42		48	1453	33	722		2.86	0.01	1032		
2 10	37	701	28	634	28	0.11			2.52		42	1448	34	657		3.67	0.04	1739		
2 11	38	1555	24	657	25	0.00					41	1441	33	655		6.04	0.18	1334		
2 12	46	1521	24	740	31	0.00			2.44		46	1526	33	708		2.98	0.01	2233		
2 13	39	1545	12	656	12	T					41	1357	31	350		10.04	0.02	8		
2 14	28	1545	12	709	22	0.00					44	1240	31	700		4.25	0.01	1007		
2 15	42	1530	7	700	7	0.01	0.4	T			43	1459	31	52		11.56	0.03	135		
2 16	19	1526	6	659	6	0.00		T	Frozen		44	1415	31	2020		11.62	0.01	615		
2 17	17	1520	6	710	14	0.41	4.1	4	Frozen		35	1207	31	1757		2.51	0.01	830		
2 18	30	1623	1	700	1	0.00		4	Frozen		32	1324	31	657		2.93	0.01	108		
2 19	35	1129	0	708	11	T		4	Frozen		32	1209	31	713		6.03	0.01	528		
2 20	19	1152	2	639	2	0.00		4			32	1150	25	659		8.86	0.01	24		
2 21	21	1553	1	205	12	0.00		4			28	1733	20	700		3.74	0.01	817		
2 22	34	444	12	700	33	0.69	2.2	5			30	657	20	858	snow then rain	4.40	0.01	1558		
2 23	50	1451	32	2219	35	0.00		1	Frozen		32	1456	30	706		2.70	0.01	916		
2 24	35	706	6	559	6	0.00		1	Frozen		33	1439	31	700		7.71	0.01	332		
2 25	30	1544	6	709	16	0.00		T	Frozen		32	1545	31	646		3.38	0.01	841		
2 26	40	1625	15	716	28	0.08	1.9	2	Frozen		32	1441	31	741		2.30	0.01	711		
2 27	37	1525	26	2128	28	0.06	1	1	Frozen		32	1545	31	824		3.08	0.01	610		
2 28	34	1513	14	657	15	0.00		1			32	1432	31	623		5.35	0.01	620		
Average	37		15		21	Total	1.67	9.6			39		30			5.16	0.02			
						Greatest	0.69	4.1												

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD		7:00 AM		March 2015		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					
3 1	35	1621	14	705	23	0.00		1			32	1437	31	831		1.54	0.01	727	
3 2	32	101	23	700	31	0.52	0.2	1	Frozen		31	633	31	716	ice & freezing rain	0.65	0.01	824	
3 3	42	1524	23	538	24	0.00		T	Frozen		33	1442	31	735		5.74	0.01	127	
3 4	40	256	24	700	40	0.13		T	Frozen		32	1049	31	737		5.36	0.01	801	
3 5	48	1533	35	658	35	0.49		T	Frozen		33	441	31	704		2.09	0.01	627	
3 6	35	705	9	632	10	0.58	5.1	5	Frozen		35	1206	32	634		1.30	0.01	611	
3 7	32	1622	5	555	6	0.00		5			40	1428	31	550		0.70	0.01	721	
3 8	47	1739	6	700	32	0.00		3			45	1550	31	703		5.37	0.01	532	
3 9	57	1630	31	655	32	0.00		T	Frozen		52	1310	33	713		2.51	0.01	7	
3 10	64	1527	30	408	33	0.00		0	5.10	3.24	51	1219	36	705		1.16	1.71	1520	
3 11	50	1300	33	706	48	0.33					49	1637	37	725		0.67	1.37	1144	
3 12	63	1343	39	632	41	0.03			3.35		60	1639	40	656		2.80	2.59	1224	
3 13	55	1519	26	628	26	0.00					63	1523	39	633		4.85	2.73	1309	
3 14	52	1317	26	705	44	0.42					58	1333	39	702		3.75	3.65	1301	
3 15	56	1421	39	553	42	0.27					53	1702	42	702		3.97	1.11	1349	
3 16	55	1522	29	616	30	0.00					60	1526	39	614		7.16	3.88	1148	
3 17	65	1420	30	700	52	0.00					63	1516	39	700		2.26	2.75	1203	
3 18	71	1143	30	621	33	0.00					66	1514	38	625		8.84	2.99	1302	
3 19	49	1515	27	602	28	0.00			3.32		58	1524	38	702		4.91	2.84	1232	
3 20	51	1304	28	701	33	0.30					57	1458	38	704		2.72	2.78	1142	
3 21	35	2156	29	634	30	0.27					41	1122	36	621		2.92	0.37	659	
3 22	60	1620	30	700	42	0.00					63	1550	37	700		4.95	4.02	1143	
3 23	53	1447	32	628	32	0.00			3.54		63	1453	39	604		5.70	3.56	1205	
3 24	49	0	31	0	35	0.00			3.39		0	0	0	0	Malfunction of automated	0.00	0.00	0	
3 25	44	0	23	0	26	0.00			3.34		0	0	0	0	weather station manual	0.00	0.00	0	
3 26	52	0	26	0	47	0.01			3.33		0	0	0	0	readings 23 thru 29	0.00	0.00	0	
3 27	75	0	38	0	38	0.83			4.04		0	0	0	0		0.00	0.00	0	
3 28	48	0	28	0	30	0.08			4.04		0	0	0	0		0.00	0.00	0	
3 29	37	0	22	0	30	0.00			Frozen		0	0	0	0		0.00	0.00	0	
3 30	47	1650	30	1124	42	0.04			3.81	3	54	1556	37	612		5.76	2.78	1202	
3 31	62	1623	39	617	42	T			2.83		63	1559	38	701		5.38	3.82	1140	
Average	50		27		33	Total	4.30	5.3			40		29			3.00	1.39		
						Greatest	0.83	5.1											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	April 2015	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					
4 1	69	1440	31	609	33	0.06			2.71		68	1344	39	552		9.26	3.60	1217	
4 2	58	1553	33	700	42	0.00			2.56		68	1503	40	702		3.85	2.84	1157	
4 3	71	1646	42	700	63	0.13					69	1510	40	705		13.38	2.99	1250	
4 4	71	1845	52	536	53	0.00					66	1649	53	650		8.27	1.01	1117	
4 5	58	1521	33	312	43	0.00					69	1421	39	605		6.68	3.40	954	
4 6	66	1501	42	559	48	0.00			1.94		67	1526	40	702		6.17	3.32	1157	
4 7	76	1421	48	700	61	0.02			1.71		77	1516	41	701		7.25	2.88	1155	
4 8	70	1453	44	652	44	0.15			1.51		70	1558	49	658		5.08	2.51	1115	
4 9	47	1346	41	559	41	0.15					52	1453	43	551		1.92	0.78	1128	
4 10	46	1252	41	742	43	0.05			1.68		51	1404	43	554		2.10	1.45	1103	
4 11	68	1650	43	702	58	0.00			1.63		61	1758	44	702		1.49	3.06	1446	
4 12	65	1554	33	555	42	0.00					76	1414	40	647		5.21	4.18	1159	
4 13	69	1358	42	422	51	0.00			1.55		79	1425	40	705		2.84	4.32	1152	
4 14	78	1501	51	700	60	0.19			1.54		81	1457	45	700		8.60	3.50	1206	
4 15	64	1106	44	557	50	0.64			2.18		64	1208	49	613		1.85	0.86	1019	
4 16	65	1457	42	546	49	0.00			2.07		67	1602	47	637		2.21	3.58	1251	
4 17	71	1459	50	700	57	0.06			1.91		78	1353	48	701		4.27	4.49	1342	
4 18	79	1428	52	554	59	0.00			1.78		88	1442	57	701		2.07	4.92	1307	
4 19	80	1459	55	117	59	0.00					91	1509	55	644		1.67	3.82	1146	
4 20	66	1327	51	2147	64	1.45			2.86		75	1347	53	2351		7.95	3.93	1209	
4 21	80	1400	55	647	55	0.42			3.06		85	1434	56	659		5.31	5.13	1217	
4 22	67	1533	42	341	54	0.00			2.83		77	1511	48	621		3.93	5.79	1208	
4 23	72	1237	38	556	45	T			2.62		70	1237	41	612		7.33	9.09	1217	
4 24	56	1711	38	541	41	0.00			2.47		59	1459	39	604		6.87	9.02	1121	
4 25	59	1559	35	309	43	0.00					70	1514	40	704		4.93	6.30	1216	
4 26	52	1457	41	28	44	0.22					54	1552	43	701		1.20	3.78	806	
4 27	64	1457	39	546	46	0.00			2.31		76	1504	44	705		2.18	8.22	1334	
4 28	60	1511	44	430	50	0.00			2.14		64	1516	43	614		4.64	8.87	1133	
4 29	70	1551	43	528	55	0.00			1.99		74	1611	44	702		4.45	8.63	1159	
4 30	75	1549	49	512	55	0.00			1.80		87	1428	49	700		1.28	6.11	1158	
Average	66		43		50	Total	3.54	0.0			71		45			4.81	4.41		
						Greatest	1.45	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		May 2015		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						
5 1	73	1351	51	600	51	0.03			1.70		79	1453	53	630		2.25	7.32	1038		
5 2	59	1526	42	433	49	0.00					65	1529	48	550		1.43	3.11	1052		
5 3	74	1611	48	528	59	0.00			1.47		82	1414	49	701		1.58	6.93	1255		
5 4	82	1457	49	506	60	0.00			1.26		88	1551	53	701		1.32	5.99	1226		
5 5	84	1448	60	700	67	0.00			0.98		88	1415	55	702		4.52	4.63	1119		
5 6	86	1335	58	455	63	0.62			1.17		97	1412	59	700		1.04	4.86	1038		
5 7	79	1422	56	510	61	T			0.99		93	1419	58	558		1.83	4.02	1101		
5 8	80	1546	55	510	64	0.00			0.80		94	1414	59	608		1.28	3.47	1201		
5 9	80	1352	59	202	65	0.00					93	1406	60	700		1.39	3.33	1202		
5 10	80	1632	64	709	68	0.00					92	1443	64	701		1.86	3.83	1145		
5 11	82	1410	67	436	68	T					92	1230	66	700		2.62	3.70	1320		
5 12	79	1122	63	237	71	0.01			0.37	2.44	87	1453	64	550		1.91	3.85	1118		
5 13	87	1508	61	603	62	0.00			2.19		88	1318	56	601		6.46	3.87	1150		
5 14	67	1334	45	529	53	0.00			1.99		75	1508	46	551		5.63	4.08	1128		
5 15	71	1500	49	2245	56	0.00			1.80		83	1525	47	701		1.93	2.65	1159		
5 16	77	1451	56	707	67	0.00					84	1525	53	700		3.67	3.00	1011		
5 17	89	1501	66	203	69	0.48					95	1439	60	701		2.39	2.69	1232		
5 18	85	1352	67	421	71	0.00			1.73		90	1435	68	701		1.40	3.93	1248		
5 19	87	1110	68	318	70	1.07			2.61		93	1558	70	701		1.32	3.46	1106		
5 20	87	1641	59	527	60	0.00			2.37		93	1521	58	607		3.23	4.43	1110		
5 21	71	1402	52	2351	56	0.00			2.15		81	1430	56	656		4.25	3.33	1140		
5 22	57	707	47	508	54	0.38			2.51		56	712	47	539		0.83	1.10	700		
5 23	76	1550	48	503	54	0.00					80	1437	49	700		3.97	3.33	1420		
5 24	74	1506	47	445	58	0.00					85	1514	50	701		1.75	3.10	1153		
5 25	82	1623	58	441	68	0.00					91	1514	55	701		2.18	2.65	1155		
5 26	83	1516	63	257	69	0.00			1.62		89	1354	61	539		5.97	2.88	1348		
5 27	88	1508	69	701	74	0.00					93	1511	63	701		5.10	3.18	1149		
5 28	89	1447	68	51	73	0.00			1.20		93	1331	68	545		3.87	3.24	1213		
5 29	90	1420	67	157	70	0.01			1.06		98	1433	69	557		1.21	2.93	1233		
5 30	85	1541	68	501	73	0.00					92	1546	68	600		1.34	3.04	1226		
5 31	88	1509	69	500	73	0.00					96	1408	66	530		5.12	3.16	1148		
Average	80		58		64	Total	2.60	0.0			87		58			2.73	3.71			
						Greatest	1.07	0												

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM	June 2015	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				reading after	maximum	time occurrence	minimum	time occurrence						
6 1	90	1414	71	523	74		T				97	1415	68	700		5.87	3.01	1249	
6 2	91	1439	62	659	62		2.09			2.29	99	1351	67	659		2.84	2.96	1304	
6 3	62	700	55	503	55		0.09			2.35	67	700	57	535		2.39	0.72	1502	
6 4	61	1721	55	459	56		0.02			2.34	64	1744	57	601		2.51	1.04	1128	
6 5	62	1456	56	644	56		0.65			3.07	65	1535	57	700		2.04	1.48	1143	
6 6	71	1525	56	730	64		0.00				78	1537	58	750		0.83	6.72	1221	
6 7	80	1524	61	359	66		0.00				86	1413	65	700		4.04	5.83	1244	
6 8	78	1408	59	441	67		0.16			2.91	86	1408	61	531		5.21	6.84	1133	
6 9	86	1528	66	700	69		0.69			3.52	93	1448	62	701		8.71	4.99	1018	
6 10	86	1405	60	504	67		0.00			2.98	92	1417	65	556		3.60	5.72	1200	
6 11	84	1407	64	357	72		0.01			2.85	91	1443	65	702		2.57	4.53	1334	
6 12	92	1357	72	701	77		0.00			2.60	98	1448	68	701		2.40	3.74	1222	
6 13	92	1346	71	509	78		0.00				97	1351	73	546		4.24	2.88	1148	
6 14	90	1549	73	502	78		0.21				96	1435	74	700		1.89	3.35	1328	
6 15	91	1339	73	458	76		0.02			1.98	101	1448	74	539		1.41	3.61	1202	
6 16	91	1522	72	351	79		0.00			1.82	96	1530	73	522		1.78	4.39	1306	
6 17	93	1600	68	507	76		0.00			1.56	97	1413	70	540		2.98	4.08	1102	
6 18	83	1022	69	440	72		0.33			1.76	89	1223	70	554		1.05	3.41	1019	
6 19	89	518	67	700	70		1.00			2.54	78	3	73	659		0.52	0.01	232	
6 20	86	1941	69	827	72		0.00				92	1800	71	914		0.52	4.99	1447	
6 21	88	1721	71	29	73		1.56			3.70	95	1722	73	658		0.52	4.55	1448	
6 22	91	1731	73	723	73		0.00			3.46	96	1737	73	925		0.52	4.90	1439	
6 23	91	1853	71	816	75		0.00			3.17	100	1823	74	916		0.52	4.22	1559	
6 24	93	1618	67	657	67		1.03			3.84	100	1725	72	659		0.52	2.90	1501	
6 25	83	1852	62	655	62		0.00			3.57	95	1841	70	915		0.52	3.51	1519	
6 26	85	1642	61	750	65		0.70			4.06	92	1739	68	914		0.52	4.46	1643	
6 27	78	1528	64	614	66		0.00				85	1542	68	645		0.52	4.95	1202	
6 28	74	1650	62	505	66		1.83				73	1816	67	554		0.52	1.12	1649	
6 29	79	1440	57	429	66		0.00			O.F.	82	1443	63	545		0.52	6.62	1136	
6 30	82	1425	65	411	73		0.00			3.07	93	1435	64	700		0.52	4.85	1119	
Average	83		65		69	Total	10.39	0.0			89		67			2.09	3.88		
						Greatest	2.09	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM July 2015		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				
7 1	87	1500	64	457	68	0.35			3.27		91	1530	69	557	0.52	5.59	1236	
7 2	85	1437	66	415	67	0.52			3.58		93	1450	70	700	0.52	4.62	1241	
7 3	73	1316	59	351	65	0.00					75	1553	64	526	0.52	2.89	916	
7 4	81	1324	65	702	72	0.08					89	1355	65	700	0.52	4.59	1212	
7 5	82	1443	64	459	67	0.30					90	1449	69	602	0.52	6.42	1117	
7 6	83	1540	67	700	74	0.02			3.55		94	1546	70	703	0.52	5.34	1206	
7 7	86	1426	69	336	73	0.15			3.53		96	1537	73	545	0.52	5.65	1211	
7 8	88	1438	73	701	77	0.00			3.30		99	1445	74	702	0.52	4.94	1034	
7 9	87	1115	73	2343	76	0.14			3.35		91	1209	74	549	0.52	6.10	1118	
7 10	91	1344	73	519	74	0.17			3.32		97	1345	73	603	0.52	5.14	1342	
7 11	84	1550	71	618	72	0.04					95	1533	74	702	0.52	5.77	1305	
7 12	85	1629	63	435	72	0.00					97	1512	70	608	0.52	5.83	1032	
7 13	86	1457	66	509	74	0.00			2.80		96	1537	70	700	0.52	4.58	1406	
7 14	80	1251	71	148	74	T			2.70		86	1634	73	701	0.52	5.44	1252	
7 15	87	1515	69	359	75	0.00			2.55		98	1547	73	603	0.52	4.94	1136	
7 16	84	1542	63	615	66	0.00			2.34		90	1600	64	628	0.52	4.98	1214	
7 17	82	1500	61	33	69	0.00			2.13		97	1515	64	700	0.52	2.89	1145	
7 18	82	1216	69	701	76	0.00					87	1445	67	701	0.52	3.18	1214	
7 19	87	1419	73	533	80	T					97	1601	73	700	0.52	3.02	1101	
7 20	95	1325	76	159	82	0.00			1.54		103	1453	76	700	0.52	2.58	1205	
7 21	93	1649	75	234	81	0.00			1.43		104	1348	78	545	0.52	2.62	1102	
7 22	90	1531	64	526	72	0.00			1.32		94	1543	68	624	0.52	2.82	1337	
7 23	86	1428	62	534	71	0.00			1.07		97	1430	65	558	0.52	2.58	1248	
7 24	85	1444	59	517	70	0.00					97	1509	63	553	0.52	2.46	1313	
7 25	86	1519	61	403	69	0.00					97	1423	64	701	0.52	2.09	1159	
7 26	87	1217	66	419	72	0.00					96	1300	66	701	0.52	2.55	1112	
7 27	89	1401	71	538	72	0.26					98	1415	67	700	0.52	2.12	1233	
7 28	88	1208	70	512	75	0.03					93	1246	71	700	0.52	2.58	1148	
7 29	91	1231	70	501	77	0.00			0.21	2.08	104	1356	71	550	0.52	2.39	1235	
7 30	90	1336	75	501	79	0.00			1.93		94	1457	72	700	0.52	2.81	1249	
7 31	91	1245	65	514	73	0.05			1.84		95	1247	70	615	0.52	2.51	1156	
Average	86		67		73	Total	2.11	0.0			94		70		0.52	3.94		
						Greatest	0.52	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM August 2015		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				
8 1	90	1556	66	528	74	0.00					96	1415	68	559	0.52	2.65	1140	
8 2	89	1405	63	501	71	0.00					91	1543	67	602	0.52	2.85	1220	
8 3	90	1338	62	354	71	T			1.28	1.52	97	1438	65	608	0.52	2.36	1259	
8 4	91	1421	71	537	74	0.00			1.31	1.9	96	1433	66	700	0.52	2.44	1337	
8 5	94	1439	69	522	71	0.14			1.81		97	1412	70	702	0.52	2.52	1301	
8 6	91	1340	64	535	71	0.00			1.59		96	1454	68	611	0.52	2.52	1250	
8 7	82	1232	67	411	69	T			1.50		86	1445	69	641	0.52	1.63	951	
8 8	80	1453	64	526	69	0.00					82	1508	67	616	0.52	2.20	1441	
8 9	84	1437	62	300	67	0.00					94	1426	67	550	0.52	2.71	1341	
8 10	87	1357	67	700	68	0.10			1.15		95	1443	67	700	0.52	2.68	1332	
8 11	75	1413	68	736	71	0.60			1.71		78	1456	69	822	0.52	1.65	1246	
8 12	88	1355	65	534	70	0.25			1.82		93	1353	69	628	0.52	3.11	1145	
8 13	84	1502	61	202	69	0.00			1.65		89	1503	65	613	0.52	3.39	1251	
8 14	84	1520	56	519	62	0.00			1.45		95	1425	61	625	0.52	2.39	1044	
8 15	87	1418	60	511	67	0.00					97	1450	61	700	0.52	2.11	1203	
8 16	88	1409	60	546	67	0.00					97	1432	64	614	0.52	2.14	1219	
8 17	92	1324	65	333	71	0.00			0.87	1.26	100	1419	64	700	0.52	1.94	1208	
8 18	94	1315	67	443	72	0.00					101	1427	68	700	0.52	2.01	1256	
8 19	87	1546	72	48	74	T			0.95	1.35	90	1511	71	700	0.52	2.36	1055	
8 20	89	1336	74	701	76	0.10			1.26	1.64	96	1422	73	702	0.52	2.67	1043	
8 21	87	1240	68	535	71	0.04			1.53		93	1313	70	622	0.52	2.88	1219	
8 22	87	1414	58	429	66	0.00			1.32		95	1414	62	624	0.52	2.51	1107	
8 23	85	1523	55	449	61	0.00					95	1449	60	619	0.52	2.13	1231	
8 24	87	1427	61	700	69	0.00			0.97	1.36	93	1500	61	701	0.52	2.80	1103	
8 25	90	1315	64	545	67	0.53			1.70		97	1336	67	706	0.52	2.39	1300	
8 26	85	1439	59	437	65	0.00			1.48		94	1503	64	625	0.52	2.19	1158	
8 27	82	1455	56	541	64	0.00			1.30	1.71	91	1507	60	610	0.52	2.61	1137	
8 28	81	1304	57	603	61	0.00			1.55	1.92	88	1437	60	700	0.52	2.67	1219	
8 29	84	1338	59	548	63	0.00					89	1339	62	701	0.52	2.70	1214	
8 30	89	1358	62	539	68	0.00					93	1444	64	701	0.52	2.21	1416	
8 31	89	1426	68	701	72	0.00			1.51		90	1502	66	700	0.52	1.95	1323	
Average	87		64		69	Total	1.76	0.0			93		66		0.52	2.43		
						Greatest	0.60	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	September 2015		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					
9 1	89	1553	67	513	71	0.00			1.34	1.74	89	1549	69	608		0.52	1.89	1431	
9 2	94	1356	69	335	72	0.00			1.58		98	1424	69	702		0.52	2.00	1320	
9 3	93	1333	67	548	71	0.03			1.50		94	1338	70	632		0.52	1.99	1256	
9 4	94	1405	68	546	71	0.02			1.39	1.78	97	1418	71	702		0.52	2.19	1252	
9 5	91	1241	71	702	72	0.00					95	1347	71	700		0.52	2.43	1221	
9 6	85	1433	60	608	64	0.00					92	1458	65	646		0.52	2.41	1144	
9 7	85	1512	61	414	66	0.00					92	1439	64	629		0.52	1.97	1222	
9 8	92	1356	66	700	71	0.00			1.11	1.51	97	1448	64	701		0.52	2.20	1211	
9 9	93	1314	71	701	74	0.00			1.29	1.7	96	1445	69	708		0.52	2.05	1252	
9 10	96	1336	72	611	73	0.00			1.52		98	1413	72	700		0.52	2.08	1146	
9 11	89	1107	65	554	67	0.23			1.63	2.02	90	1242	64	645		0.52	2.69	1221	
9 12	86	1447	60	530	63	0.00					91	1451	64	700		0.52	1.81	1209	
9 13	75	1406	61	359	62	0.00					76	1555	61	700		0.52	0.73	1108	
9 14	74	1244	50	344	55	0.12			1.77		80	1244	53	634		0.52	2.84	1115	
9 15	79	1620	51	611	54	0.00			1.59		83	1444	53	701		0.52	1.85	1159	
9 16	85	1456	52	535	55	0.00					88	1457	56	700		0.52	1.81	1211	
9 17	88	1336	54	537	56	0.00			1.27	1.67	91	1436	58	703		0.52	1.79	1202	
9 18	87	1356	56	617	58	0.00			1.50	1.89	91	1449	59	716		0.52	1.85	1206	
9 19	87	1236	58	700	67	0.00					90	1422	61	701		0.52	1.84	1210	
9 20	87	1311	64	248	68	0.00					90	1423	65	700		0.52	1.98	1121	
9 21	79	1405	61	333	62	0.00			1.42	1.81	83	1517	59	635		0.52	2.26	1335	
9 22	69	1153	58	434	60	0.03			1.80		70	1418	60	701		0.52	1.44	959	
9 23	73	1253	57	610	59	0.00			1.71		76	1405	59	648		0.52	2.66	1241	
9 24	77	1506	52	530	54	0.00			1.55		84	1445	56	636		0.52	1.89	1111	
9 25	81	1337	54	700	61	0.00					82	1504	56	707		0.52	2.12	1138	
9 26	73	1002	61	700	63	0.00					72	1409	58	701		0.52	0.97	956	
9 27	74	1336	60	154	62	0.00					74	1405	58	516		0.52	1.83	1118	
9 28	76	1510	62	704	66	0.00			1.15		77	1508	58	700		0.52	2.46	1114	
9 29	83	1401	66	700	70	0.00			1.07	1.46	85	1413	66	701		0.52	2.37	1122	
9 30	80	1125	70	700	73	2.71			4.00		79	1416	69	702		0.52	0.67	844	
Average	84		61		65	Total	3.14	0.0			87		63			0.52	1.97		
						Greatest	2.71	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD		7:00 AM		October 2015		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					
10 1	76	1142	56	604	56	0.10			4.01	2.48	77	1238	59	656		0.52	1.05	1138	
10 2	57	1143	52	700	52	1.48			3.91		60	701	54	658		0.52	0.43	1407	
10 3	51	644	49	148	51	1.33					51	4	50	503		0.52	0.01	155	
10 4	58	1659	51	726	55	0.15					74	1939	50	711		0.52	0.81	1424	
10 5	60	1353	51	657	51	0.00			O.F.	2.91	60	1619	53	659		0.52	1.43	1352	
10 6	66	1606	45	656	45	0.00			2.81		73	1645	52	658		0.52	2.91	1251	
10 7	76	1722	44	755	56	0.00			2.73		78	1642	50	832		0.52	2.19	1315	
10 8	77	1629	51	646	51	0.00			2.63		77	1655	58	659		0.52	3.33	1241	
10 9	78	1427	51	718	60	0.00			2.53		78	1541	57	826		0.52	3.17	1415	
10 10	80	1406	51	619	53	0.00					78	1513	57	658		0.52	2.74	1112	
10 11	63	1514	39	632	41	0.59			2.87		73	1439	47	658		0.52	2.63	1108	
10 12	73	1421	41	700	44	0.00			2.80		74	1516	47	717		0.52	2.33	1151	
10 13	76	1343	44	700	58	0.00			2.69		77	1452	50	719		0.52	2.21	1126	
10 14	80	1356	48	556	49	0.29			2.69		78	1403	55	659		0.52	2.72	1042	
10 15	71	1358	46	304	48	0.00			2.58		73	1447	51	656		0.52	3.19	1119	
10 16	68	1456	47	448	47	0.00			2.48		72	1434	49	659		0.52	2.24	1154	
10 17	66	1247	38	339	43	0.00					71	1441	44	658		0.52	2.23	1321	
10 18	59	1138	33	644	34	0.00					58	1329	39	526		0.52	2.72	1137	
10 19	54	1329	29	550	30	0.00			2.20		53	1450	39	539		0.52	2.37	1102	
10 20	57	1426	30	700	43	0.00			2.11		63	1505	39	923		0.52	1.65	1138	
10 21	72	1412	39	616	40	0.00			2.02		68	1520	40	700		0.52	1.66	1209	
10 22	78	1411	40	700	43	0.00			1.94		75	1508	45	700		0.52	1.54	1153	
10 23	82	1338	43	700	59	0.00			1.84		76	1453	49	714		0.52	1.67	1135	
10 24	70	1350	38	429	39	0.00					74	1447	43	653		0.52	1.37	1152	
10 25	60	1612	39	701	56	0.05					57	1553	43	702		0.52	0.61	747	
10 26	70	1359	40	512	42	0.00			1.33		68	1434	44	657		0.52	2.23	1109	
10 27	60	1254	36	331	40	0.00			1.27	1.92	63	1445	40	654		0.52	1.80	1210	
10 28	61	700	39	702	61	0.04			1.92		60	811	40	701		0.52	0.47	1134	
10 29	70	2004	60	425	63	1.01			2.92		68	1613	56	702		0.52	0.53	1527	
10 30	73	1039	46	658	47	0.00			2.80		73	1219	47	659		0.52	2.33	1036	
10 31	61	1413	35	618	35	0.00					63	1436	41	654		0.52	1.94	1308	
Average	68		44		48	Total	5.04	0.0			69		48			0.52	1.89		
						Greatest	1.48	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	November 2015	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					
11 1	62	1406	35	708	53	0.02			2.65		62	1448	41	728		0.52	1.99	1400	
11 2	68	1329	52	658	52	0.00			2.60		65	1527	51	701		0.52	2.39	1124	
11 3	64	1350	38	630	38	0.00			2.57		61	1512	45	657		0.52	2.29	1100	
11 4	75	1549	38	700	41	0.00			2.52		69	1540	44	740		0.52	1.77	1148	
11 5	76	1321	41	703	57	0.18			2.56		69	1459	47	709		0.52	1.71	1149	
11 6	71	1422	57	702	64	0.00			2.53		70	1558	59	708		0.52	2.21	1351	
11 7	81	1352	58	421	61	0.00					77	1445	62	707		0.52	2.38	1031	
11 8	66	1008	43	659	43	0.11			2.46		63	1021	43	700		0.52	0.34	1020	
11 9	61	1453	30	625	30	0.05			2.46		59	1521	39	622		0.52	2.13	1237	
11 10	57	658	30	702	56	0.70			3.12		51	700	39	713		0.52	0.77	1200	
11 11	61	1411	50	622	51	0.16			3.24		61	1549	50	655		0.52	0.98	1156	
11 12	63	1320	44	150	48	0.02			3.23		61	1349	48	658		0.52	2.46	1142	
11 13	67	1510	47	617	52	0.00			3.20		59	1638	47	658		0.52	1.71	1334	
11 14	62	1345	44	535	45	0.00					60	1423	39	444		0.52	1.84	1142	
11 15	55	1454	29	516	30	0.00					54	1448	39	649		0.52	2.47	1042	
11 16	66	1442	30	701	37	0.00			2.95		58	1507	39	702		0.52	1.58	1149	
11 17	71	1357	36	712	45	0.00					61	1508	41	729		0.52	1.46	1144	
11 18	62	1157	41	352	46	0.00					59	1348	43	739		0.52	1.78	1227	
11 19	65	1521	45	703	61	0.00					60	1542	44	702		0.52	1.58	1125	
11 20	64	1056	48	656	48	0.85			3.51		63	1604	48	700		0.52	0.23	1206	
11 21	55	1324	28	651	28	0.00					56	1410	39	618		0.52	1.42	1133	
11 22	55	1339	28	701	46	0.00					52	1501	39	702		0.52	1.94	1202	
11 23	47	1247	30	658	30	0.00					46	1248	35	658		0.52	0.94	1135	
11 24	42	1431	27	2111	33	0.00			3.11		43	1447	35	704		0.52	1.34	1153	
11 25	56	1407	28	556	29	0.00			3.05		50	1429	36	714		0.52	1.34	1203	
11 26	59	1255	28	716	33	0.00					54	1458	37	728		0.52	1.10	1202	
11 27	66	1449	33	700	34	0.00					59	1553	39	753		0.52	1.07	1140	
11 28	69	1313	34	721	46	0.00					61	1512	42	748		0.52	1.15	1246	
11 29	68	1316	45	727	48	0.00					60	1633	48	803		0.52	1.50	1033	
11 30	48	717	40	659	40	0.21			3.07		52	702	42	659		0.52	0.25	1120	
Average	63		39		44	Total	2.30	0.0			59		43			0.52	1.54		
						Greatest	0.85	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD		7:00 AM		December 2015		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				
12 1	46	700	38	1036	46		0.48		3.57		44	654	41	912		0.52	0.20	1056	
12 2	49	700	46	700	49		0.58		4.13		48	1711	43	709		0.52	0.22	1426	
12 3	58	1854	41	659	41		0.23		4.26		54	2013	43	657		0.52	0.28	1216	
12 4	49	1350	31	645	31		0.01		4.21		51	1427	39	240		0.52	1.32	1142	
12 5	53	1438	27	649	27		0.00				51	1453	39	659		0.52	1.34	1146	
12 6	55	1408	25	602	25		0.00				51	1525	38	641		0.52	1.34	1140	
12 7	57	1420	25	713	29		0.00		4.10	2.45	52	1529	38	756		0.52	1.38	1210	
12 8	60	1319	28	713	32		0.00		2.91		52	1446	37	821		0.52	1.59	1341	
12 9	54	1534	29	440	30		0.00		2.89		53	1540	38	654		0.52	1.57	1223	
12 10	56	1429	30	705	37		0.00		2.87		51	1555	38	724		0.52	1.68	1128	
12 11	65	1437	37	800	38		0.00				59	1542	42	751		0.52	1.39	1202	
12 12	68	1518	37	713	41		0.00				58	1625	42	732		0.52	1.86	1211	
12 13	74	1539	40	735	48		0.00				61	1640	45	744		0.52	1.71	1022	
12 14	73	1420	48	700	57		0.00		2.77		65	1540	51	806		0.52	1.72	1221	
12 15	71	1221	56	701	57		0.16				65	1511	54	731		0.52	2.01	1218	
12 16	62	1236	35	628	37		0.00		2.65		62	1339	40	645		0.52	1.92	1051	
12 17	59	1253	37	701	47		0.32				57	1512	40	717		0.52	1.56	1221	
12 18	52	2126	45	658	45		0.00				50	2336	44	700		0.52	0.27	1212	
12 19	46	1355	30	658	30		0.00				48	1448	34	655		0.52	1.99	1158	
12 20	45	1339	23	555	24		0.00				41	1451	34	727		0.52	1.71	1251	
12 21	48	1428	23	740	40		0.00		2.75		42	1506	34	736		0.52	1.35	1229	
12 22	58	1503	40	706	54		0.10				51	658	36	715		0.52	0.93	1108	
12 23	61	1640	54	720	57		0.11		2.91		57	1938	51	703		0.52	0.38	1108	
12 24	69	246	57	808	66		1.01				64	254	57	724		0.52	0.25	1041	
12 25	70	1442	63	2229	69		0.08				69	1537	63	700		0.52	0.61	1339	
12 26	71	1114	58	658	58		0.26				69	1410	60	658		0.52	1.52	1113	
12 27	58	700	50	47	52		0.02				60	701	52	545		0.52	0.70	1004	
12 28	70	1725	43	700	43		0.09				65	1613	48	659		0.52	1.62	1315	
12 29	47	659	40	2144	47		0.56				48	700	42	2222		0.52	0.55	1128	
12 30	53	1344	46	857	49		0.02				52	1615	44	700		0.52	0.94	1037	
12 31	53	1140	49	700	49		0.13		4.87	3.34	52	1419	49	732		0.52	1.38	1139	
Average	58		40		44	Total	4.16	0.0			55		44			0.52	1.20		
						Greatest	1.01	0.0											

S. No. 18-9070-4