

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		January 2013		EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION watts per sq ft	RADIATION time occurane
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				
1 1	44	1413	27	746	36	0.00					41	1413	33	750	1.51	9.40	1359	
1 2	44	1300	33	700	33	0.00			3.78		40	1635	36	819	1.78	2.67	1246	
1 3	39	1407	23	632	24	0.00			3.59		44	1433	34	659	3.22	11.49	1319	
1 4	38	1517	20	325	30	0.00			3.50		40	1529	33	659	1.53	11.66	1252	
1 5	44	1505	29	752	34	0.00					43	1451	32	823	5.03	10.67	1148	
1 6	45	1459	30	653	30	0.00					43	1459	34	750	2.09	10.73	1246	
1 7	53	1415	28	755	42	0.00					51	1502	36	812	3.05	11.25	1403	
1 8	48	1427	23	317	28	0.00			3.37		51	1449	36	654	2.89	10.40	1240	
1 9	55	1512	27	320	28	0.00			3.25		50	1609	35	746	2.53	10.52	1229	
1 10	55	1438	27	717	42	T			3.22		47	1628	38	758	1.85	7.54	1228	
1 11	56	1539	30	653	31	0.00			3.17		54	1542	39	922	1.82	10.27	1216	
1 12	44	1256	30	704	42	0.00					43	1551	38	925	0.57	5.65	1005	
1 13	59	1440	41	2233	43	0.00					58	1530	42	711	0.67	10.92	1130	
1 14	62	656	43	723	61	0.05			3.21		54	659	45	743	2.42	3.29	1138	
1 15	62	802	39	559	39	0.41			3.57		57	1159	41	659	4.63	1.86	1229	
1 16	40	1212	34	435	35	0.73			4.32	2.38	43	1205	38	659	1.87	1.17	1206	
1 17	41	308	35	704	41	0.12			2.45		42	1154	37	815	1.53	2.49	1154	
1 18	43	1228	35	656	35	T			2.46		45	1257	36	700	3.21	3.83	1220	
1 19	37	1528	25	2120	33	0.00					46	1357	33	659	6.01	11.54	1211	
1 20	55	1443	33	741	40	0.00								159	Water temp sensor out	10.54	11.23	1209
1 21	60	1418	30	630	30	0.00								700		6.22	10.56	1222
1 22	45	1521	19	656	19	0.00			Frozen					700		8.38	13.71	1038
1 23	25	1351	10	659	10	0.00			Frozen					700		6.51	12.64	1229
1 24	27	1518	10	713	17	0.03	0.9	1	Frozen					700		3.23	13.25	1316
1 25	26	1500	15	407	16	0.00		1	Frozen					918		5.10	15.31	1247
1 26	24	653	16	753	23	0.03	0.4	1						830		1.44	3.43	1022
1 27	35	1407	18	325	21	0.00		T						150		2.30	14.28	1142
1 28	39	1325	20	811	32	0.05		T	Frozen					759		1.92	11.92	1217
1 29	49	2351	32	702	40	0.11		0	Frozen					700		3.93	5.13	1415
1 30	70	1435	39	740	61	0.00			2.26					713		4.41	11.13	1153
1 31	71	1605	46	659	46	1.17			3.30					655		13.34	7.28	1001
Average	46		28		34	Total	2.70	1.3			47		37			3.73	8.94	
						Greatest	1.17	0.9										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	February 2013	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 occurance	minimum	time occurance	present				reading after	maximum	time occurance	minimum	time occurance					
2 1	48	1256	26	53	28	0.04	1.2	1	Frozen		61	921	22	108		6.80	16.82	1238
2 2	29	1113	15	700	15	0.00		0			40	1541	26	1016		6.79	17.08	1259
2 3	31	1204	14	730	19	T	0.1	T			43	1153	31	729		2.86	13.38	1152
2 4	36	1222	19	716	23	T	T	0	Frozen		44	1230	31	550		3.26	15.09	1220
2 5	35	1623	22	718	31	0.22			Frozen		42	1214	31	724		2.43	8.41	1208
2 6	40	1508	29	659	29	0.00			Frozen		42	1305	33	654		0.69	8.29	925
2 7	46	1441	23	328	25	0.00			Frozen		48	1417	33	700		4.38	13.51	1137
2 8	40	1529	25	700	33	0.00			3.26		38	1537	32	803		2.57	4.92	1117
2 9	42	1429	29	659	29	0.00					39	1753	32	205		10.51	2.98	1350
2 10	41	1444	19	651	19	0.00					44	1542	32	816		6.04	13.09	1200
2 11	45	1425	19	719	37	0.35			3.53		46	1524	32	729		3.11	13.71	1401
2 12	56	2058	37	710	42	0.00			3.51		50	2028	36	706		6.82	5.18	1136
2 13	57	1556	30	543	32	0.00			3.42		60	1517	36	658		3.07	12.63	1200
2 14	47	1326	32	350	34	0.21			3.60		48	1325	34	654		2.65	19.45	1123
2 15	51	1436	32	622	33	0.00			3.53		56	1532	34	656		2.26	13.29	1216
2 16	62	1428	33	704	35	0.05					62	1522	32	804		3.74	14.55	1215
2 17	38	1100	25	700	25	T					41	1336	30	2231		7.05	6.41	1039
2 18	33	1452	21	550	21	0.00			Frozen		41	1456	31	659		9.29	22.54	1150
2 19	42	1634	21	708	39	0.00			Frozen		44	1554	31	748		4.31	17.60	1222
2 20	45	1803	31	652	31	0.10			3.46		39	1625	33	704		8.05	5.87	1427
2 21	39	1511	22	618	23	0.00			Frozen		47	1346	31	642		8.02	24.64	1259
2 22	39	1447	23	710	29	0.00			Frozen		45	1424	31	714		5.61	18.54	1144
2 23	34	1230	29	704	33	0.08					34	1555	32	719		1.33	6.07	1227
2 24	45	1625	33	701	40	0.02					42	2346	32	704		2.02	4.19	1503
2 25	53	1410	26	553	28	0.00			3.34		59	1518	32	657		7.69	19.06	1123
2 26	48	1447	25	325	28	0.00			3.32		53	1533	32	704		1.99	15.54	1203
2 27	46	14	28	701	41	0.57			3.83		44	223	33	806		5.04	3.83	1038
2 28	56	1508	40	659	40	0.04			3.86	1.89	60	1443	42	751		3.82	20.41	1330
Average	44		26		30	Total	1.68	1.3			47		32			4.72	12.75	
						Greatest	0.57	1.2										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	March 2013		EASTERN					REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION watts per sq ft	time occurane
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F							
	maximum	time occurance	minimum	time occurance	present				INCHES	reading after	maximum	time occurance	minimum	time occurance				
3 1	48	1237	38	540	40	0.00			1.74		58	1117	35	540	5.31	13.56	1354	
3 2	45	1144	30	648	31	0.00					51	1104	26	547	5.31	9.23	1103	
3 3	37	840	28	345	30	0.00					41	1320	26	345	5.41	10.21	839	
3 4	41	1533	28	631	28	0.00			Frozen		53	1532	27	620	8.31	15.98	1338	
3 5	43	1543	26	355	29	0.00			1.42		64	1513	27	356	6.06	17.57	1108	
3 6	51	1417	29	700	34	0.29	0.5	1			80	1304	29	700	4.61	16.17	1302	
3 7	39	45	32	821	35	1.21	0.5	0	2.85		36	2053	31	659	12.64	3.49	1059	
3 8	50	1426	34	428	36	0.00			2.64		58	1426	31	437	9.38	19.60	1306	
3 9	50	1448	35	629	35	0.00					58	1454	30	649	12.34	19.11	1049	
3 10	62	1615	27	453	27	0.00					69	1538	30	700	2.27	15.55	1209	
3 11	62	1406	27	700	43	0.00			2.24		70	1412	32	700	4.85	15.21	1211	
3 12	59	1558	43	700	54	0.11			2.30		63	1446	43	701	7.87	12.90	1128	
3 13	59	1418	30	627	30	0.56			2.80		67	1453	31	644	7.48	21.28	1323	
3 14	50	1423	30	700	33	0.00			2.79		57	1500	30	136	6.82	20.45	1110	
3 15	46	1446	27	630	28	0.00			2.49		57	1450	29	244	5.98	19.05	1216	
3 16	57	1629	28	702	44	0.00					63	1454	32	701	4.96	21.41	1058	
3 17	57	1141	32	632	33	0.00					66	1157	31	541	4.02	20.41	1137	
3 18	41	1004	33	700	35	T	T	0			44	1520	33	700	2.51	5.20	915	
3 19	38	1155	33	912	37	0.14					40	1152	32	742	1.86	5.87	1110	
3 20	59	1606	35	626	36	0.00					71	1446	31	336	6.47	17.22	1249	
3 21	53	1608	32	605	33	0.00			2.14		66	1438	31	407	8.18	20.72	1253	
3 22	40	1344	28	157	31	T	T	0	Frozen		61	1339	28	534	7.88	23.23	1208	
3 23	48	1506	23	541	28	0.00					67	1617	26	155	4.52	22.73	1133	
3 24	54	1607	27	351	29	0.00					80	1607	26	500	3.86	19.20	1207	
3 25	42	1304	29	701	32	0.42	2.7	3	2.21		56	1251	31	701	1.83	10.05	1251	
3 26	37	1514	32	633	33	0.26	0.5	2	2.59		40	1458	30	412	1.24	7.60	1246	
3 27	50	1607	33	701	38	0.00		0	2.51		61	1604	33	616	4.51	24.37	1141	
3 28	50	1303	36	341	41	0.00			2.32		61	1601	32	455	6.32	23.88	1124	
3 29	49	1606	39	635	40	0.00			2.28		56	1612	36	634	6.16	20.79	1329	
3 30	56	1543	31	255	35	T					68	1541	33	315	3.60	25.17	1206	
3 31	60	1542	34	700	43	0.00					80	1509	37	700	1.76	20.85	1212	
Average	50		31		35	Total	2.99	4.2			60		31		5.62	16.71		
						Greatest	1.21	2.7										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM April 2013		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	57	1120	36	535	42	0.01			2.04		58	940	38	534		3.08	13.53	940
4 2	66	1112	33	459	38	0.00			1.88		70	1234	37	625		6.07	21.65	1156
4 3	49	1330	25	551	31	0.00			1.71		64	1431	34	618		5.10	18.19	1224
4 4	52	1526	23	551	28	0.00			1.53		64	1446	34	613		6.33	18.20	1151
4 5	51	1426	28	700	38	0.35			1.80		61	1426	34	711		2.52	20.06	1234
4 6	64	1613	37	602	39	0.00					71	1508	36	420		6.95	17.72	1219
4 7	55	1439	37	410	40	0.00					72	1503	35	743		3.68	18.05	1205
4 8	70	1624	40	700	57	0.00			1.20		72	1456	37	709		8.45	18.68	1209
4 9	80	1505	57	700	65	0.00			0.91		83	1506	50	700		4.99	18.47	1247
4 10	85	1539	64	604	69	0.00			0.73	2.07	91	1410	57	700		4.72	16.20	1158
4 11	90	1500	59	550	63	0.00			1.77		91	1425	60	700		5.58	16.11	1154
4 12	86	1323	51	225	53	0.45			1.98		91	1304	53	651		4.74	16.53	1153
4 13	72	1405	42	549	46	0.50					75	1642	49	639		3.38	24.44	1141
4 14	68	1534	39	351	45	0.00					77	1554	45	633		2.53	27.48	1131
4 15	67	1450	45	704	53	0.01			2.06		77	1450	45	701		2.72	22.56	1225
4 16	61	1422	51	537	54	T			1.94		64	1421	52	544		2.78	10.48	1021
4 17	75	1518	54	701	60	0.00			1.83		77	1542	52	700		4.48	24.77	1141
4 18	78	1210	58	527	59	0.01			1.72		87	1238	59	700		2.31	22.41	1238
4 19	76	1533	59	728	65	0.01			1.63		80	1559	59	708		6.67	23.46	1215
4 20	79	1410	47	646	47	0.91					77	1410	48	700		9.10	19.30	1331
4 21	60	1455	35	536	41	0.00					74	1433	39	600		4.37	20.91	1202
4 22	54	1352	32	424	42	0.00			1.99		73	1414	39	543		2.64	23.39	1237
4 23	55	1451	42	700	46	0.00			1.87		63	1519	40	701		4.12	36.89	1158
4 24	62	1617	39	305	48	T			1.79		74	1626	46	557		2.14	36.81	1136
4 25	77	1540	45	530	47	0.05			1.54		84	1404	46	631		10.25	22.99	1320
4 26	65	1609	39	544	46	0.00			1.41		81	1505	45	611		2.35	19.48	1204
4 27	67	1532	39	553	48	0.00					83	1425	45	701		1.58	18.58	1150
4 28	69	1445	40	524	48	0.00					85	1418	46	625		1.44	18.06	1204
4 29	68	1022	48	700	54	0.23			1.14		70	1156	46	700		3.64	22.68	1019
4 30	59	1231	54	2129	55	0.24			1.40		64	1610	53	701		2.85	7.01	1358
Average	67		43		49	Total	2.77	0.0			75		45			4.39	20.50	
						Greatest	0.91	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	May 2013	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 occurance	minimum	time occurance	present				INCHES	reading after	maximum	time occurance	minimum	time occurance			watts per sq ft	time occurance
5 1	59	1243	43	541	50	0.09			1.47		65	1542	47	620		1.39	13.19	1230
5 2	68	1606	40	431	48	0.00			1.26		85	1444	47	525		2.85	19.64	1202
5 3	67	1521	43	329	54	0.00			1.10		84	1501	47	609		2.49	22.30	1049
5 4	65	1148	45	2358	51	0.00					82	1427	48	557		4.27	19.03	1202
5 5	67	1544	42	457	47	0.00					84	1353	43	603		3.76	17.95	1057
5 6	61	1528	46	9	50	0.00			0.59	1.95	82	1451	45	701		2.62	11.36	934
5 7	62	1509	50	700	58	0.01			1.89		66	1603	50	701		2.75	10.74	1246
5 8	63	1428	57	554	58	0.75			2.64		67	1714	58	703		3.78	7.74	1614
5 9	71	1319	51	321	56	0.24			2.79		80	1323	58	529		1.15	27.70	1134
5 10	75	1434	52	519	61	0.02			2.70	2.55	83	1356	58	700		1.58	25.93	1330
5 11	84	1411	61	701	65	0.49					88	1506	60	700		2.90	26.46	1159
5 12	79	1349	56	522	60	0.30			2.95		83	1532	62	636		3.10	36.75	1301
5 13	65	1510	39	403	50	0.00			2.70		77	1351	44	613		5.38	27.32	1113
5 14	61	1453	33	503	46	0.00			2.53		67	1608	41	542		4.49	28.30	1139
5 15	65	1439	46	702	60	0.00			2.36		75	1433	43	700		2.33	21.04	1029
5 16	86	1656	60	701	72	0.00			2.17		84	1549	55	700		3.93	22.12	1304
5 17	86	1144	56	519	67	T			1.96		85	1540	60	609		2.27	22.65	1108
5 18	82	1326	61	501	64	0.00					91	1346	61	546		1.96	17.05	1155
5 19	65	1025	59	1206	62	0.06			1.76		65	1542	60	442		1.18	7.53	1220
5 20	75	1518	62	702	66	0.01			1.72		79	1543	60	701		0.61	8.73	1429
5 21	82	1507	65	310	69	0.00			1.63		87	1507	65	700		0.98	22.42	1310
5 22	83	1547	68	4	72	0.00			1.48		91	1554	68	701		2.65	27.91	1113
5 23	87	1531	66	128	72	T			1.38		96	1439	69	532		4.88	20.72	1025
5 24	82	1518	60	659	60	0.09			1.18		88	1528	63	659		4.43	20.83	928
5 25	60	701	44	456	48	0.00					64	701	40	605		9.26	23.48	1133
5 26	67	1606	48	702	55	0.00					78	1413	42	700		5.82	21.31	1228
5 27	72	1638	44	514	56	0.00					84	1443	47	700		3.61	17.65	1054
5 28	72	1230	56	700	63	T			0.52	2.63	79	1302	48	700		1.06	7.48	1359
5 29	84	1452	62	703	71	0.34			2.86		88	1543	60	700		0.97	18.62	1213
5 30	90	1435	68	455	74	0.00			2.61		95	1513	68	701		2.91	18.72	1242
5 31	82	1436	65	448	73	0.00			2.35		100	1337	69	547		1.86	18.29	1356
Average	73		53		60	Total	2.40	0.0			81		54			3.01	19.71	
						Greatest	0.75	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM June 2013		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				
6 1	91	1519	68	501	74	0.00					97	1441	67	531		4.44	17.95	1202
6 2	91	1523	73	435	76	0.00					100	1342	68	539		6.21	18.26	1258
6 3	88	1134	67	632	67	1.65			3.11		92	1442	69	530		5.19	23.95	1233
6 4	82	1446	57	523	62	1.01			3.92		92	1446	63	615		1.02	18.58	925
6 5	76	1707	51	501	64	0.00			3.66		91	1547	62	542		2.26	19.84	1203
6 6	79	1440	57	339	65	0.00			3.43		92	1451	63	700		2.12	20.41	1124
6 7	75	1120	65	701	69	1.39			4.79	2.23	78	1312	65	700		4.49	20.69	943
6 8	71	1028	64	225	66	1.13					72	1307	65	527		2.99	3.77	1303
6 9	80	1720	62	519	68	0.00					90	1624	66	711		0.67	25.56	1232
6 10	81	1519	67	700	70	0.46			3.53		89	1517	70	700		1.62	22.07	1254
6 11	81	1325	67	459	70	0.98			4.35	2	84	1651	69	530		3.40	27.12	1217
6 12	84	1350	67	351	73	0.00			1.77		94	1424	67	549		2.98	33.77	1259
6 13	89	1511	71	515	73	0.00			1.55		98	1513	69	700		2.39	21.38	1158
6 14	89	1356	59	526	60	0.13			1.50		93	1409	61	614		6.27	24.58	1152
6 15	79	1645	59	503	68	0.00					91	1520	62	559		4.02	24.07	1254
6 16	83	1434	62	428	67	0.00					99	1433	63	700		1.74	18.50	1235
6 17	84	1145	67	700	73	0.00			0.92	3.07	90	1257	67	700		3.12	25.35	1219
6 18	86	1552	69	447	72	0.03			2.92		94	1554	71	716		1.86	21.78	1235
6 19	77	1145	62	2342	67	0.31			3.20		79	1223	66	632		0.78	8.49	1144
6 20	77	1502	58	512	65	0.00			3.04		89	1513	65	549		1.33	28.50	1232
6 21	81	1351	55	503	67	0.00			2.80		93	1406	63	549		2.19	30.13	1152
6 22	81	1559	59	504	68	0.00					95	1531	64	701		1.25	18.78	1206
6 23	86	1442	66	416	71	0.00					100	1505	68	701		1.99	18.47	1219
6 24	84	1637	69	405	75	0.04			2.28		89	1708	71	702		0.74	25.79	1248
6 25	92	1400	67	311	74	0.08			2.18		101	1405	71	545		1.03	8.60	1723
6 26	92	1428	67	409	74	0.20			2.13		101	1443	71	609		2.35	23.84	1110
6 27	92	1326	68	442	72	0.01			1.93		102	1333	72	700		1.35	17.78	1209
6 28	86	1105	69	504	73	0.11			1.92		93	1202	71	538		2.58	21.20	1237
6 29	89	1347	65	438	70	0.35					97	1345	NA	801		1.99	27.40	1126
6 30	87	1413	70	700	75	1.17					99	1436	69	700		1.46	28.82	1223
Average	84		64		70	Total	9.05	0.0			92		67			2.53	21.51	
						Greatest	1.65	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM July 2013		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 occurane
	maximum	time occurance	minimum	time occurrence	present				INCHES	reading after	maximum	time occurance	minimum	time occurrence				
7 1	84	1329	67	1032	73	1.66			4.48	2.25	88	1329	75	559	0.91	38.63	1053	
7 2	83	1503	73	702	74	0.12			2.26		90	1547	74	600	2.15	44.97	1314	
7 3	83	1234	70	340	73	0.15			2.34		88	1326	72	455	3.07	40.77	1237	
7 4	86	1226	71	339	76	0.03					94	1626	72	700	2.26	48.78	1207	
7 5	88	1419	72	350	76	0.00			2.03		98	1434	74	546	3.64	45.86	1051	
7 6	89	1531	73	341	78	0.00					101	1450	74	546	4.58	46.99	1153	
7 7	92	1338	72	432	78	0.00			1.51		104	1436	73	543	3.70	40.55	1309	
7 8	90	1342	70	224	73	0.03			1.32		102	1351	72	520	3.95	7.33	1422	
7 9	86	1532	70	322	73	T			1.16		96	1526	71	530	1.26	44.63	1102	
7 10	85	1657	73	702	77	T			1.09	2.48	90	1651	72	700	0.69	28.89	1217	
7 11	89	1623	72	2246	73	0.22			2.58		95	1617	73	541	2.34	48.10	1148	
7 12	84	1546	66	325	66	3.82			OF		95	1511	69	646	1.29	42.30	1103	
7 13	72	700	66	702	72	0.00					75	1508	69	743	2.13	14.27	1406	
7 14	85	1517	70	318	74	0.93			OF	2.43	90	1608	72	702	0.86	42.84	1035	
7 15	89	1434	70	448	75	0.00			2.30		100	1455	74	605	1.30	40.58	1229	
7 16	93	1539	75	249	81	0.00			2.09		103	1515	75	700	1.23	40.32	1128	
7 17	93	1439	73	402	79	0.00			1.84		102	1442	76	526	2.74	0.63	550	
7 18	94	1425	74	328	81	0.00			1.64		104	1445	77	538	1.14	32.14	958	
7 19	95	1307	77	537	81	0.00			1.44		107	1404	78	700	0.96	2.21	1402	
7 20	94	1311	77	430	78	0.00					103	1340	77	539	3.25	36.45	1220	
7 21	93	1332	71	510	77	0.00			0.99		101	1440	74	615	3.66	44.70	1237	
7 22	92	1315	70	508	74	0.39			1.26		103	1342	73	544	0.90	24.53	846	
7 23	88	1621	72	234	75	0.39			1.49		99	1517	74	700	1.21	5.71	710	
7 24	87	1514	68	512	74	0.00			1.31	2.43	97	1326	71	543	1.90	20.31	1303	
7 25	83	1515	62	651	62	0.00			2.24		90	1452	64	657	4.68	41.73	1152	
7 26	79	1501	62	747	69	0.00			2.08		92	1455	64	753	2.29	0.13	1401	
7 27	85	1450	66	410	69	0.00					98	1453	68	701	1.00	0.65	1608	
7 28	85	1434	69	701	71	0.00					95	1504	69	705	3.05	25.49	1247	
7 29	87	1443	64	535	69	0.00			1.60		96	1442	67	603	1.43	0.43	917	
7 30	84	1353	59	521	66	0.00			1.38		98	1442	63	615	1.98	0.49	1059	
7 31	83	1539	63	140	67	0.00			1.23		92	1432	64	701	0.77	5.18	1020	
Average	87		70		74	Total	7.74	0.0			96		72		2.14	27.63		
						Greatest	3.82	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM August 2013		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 occurene
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance				
8 1	82	1009	67	700	70		0.34			1.48		85	1139	68	700		1.11	12.01	1241
8 2	83	1607	64	536	71		0.71			2.13		89	1608	69	612		0.72	8.52	1459
8 3	86	1424	65	329	69		0.00					96	1424	69	610		1.41	26.69	1531
8 4	79	1220	64	534	67		0.10					83	1428	67	555		0.95	16.84	1239
8 5	82	1416	56	456	64		0.00			1.79		91	1432	61	623		4.14	36.86	1134
8 6	82	1522	63	2339	68		0.00			1.65		95	1528	62	700		1.05	48.76	1159
8 7	72	1734	66	824	70		0.06			1.65		75	1731	68	706		0.71	2.70	936
8 8	84	1500	70	701	74		0.00			1.56		89	1533	70	700		1.75	41.75	1458
8 9	86	1234	74	700	78		0.13			1.61		92	1459	73	700		2.26	0.97	1635
8 10	91	1348	72	550	75		0.03					98	1345	75	546		4.09	33.25	1009
8 11	84	1627	69	340	70		0.00			1.37		92	1555	72	626		0.86	30.37	909
8 12	84	1355	67	527	71		0.00			1.28		91	1417	70	613		1.02	0.31	654
8 13	89	1442	71	701	77		0.00			1.14		98	1510	71	701		1.24	0.37	850
8 14	86	1535	59	604	62		0.44			1.44		94	1529	62	651		2.77	10.90	700
8 15	75	1436	53	521	58		0.00			1.25		85	1454	57	626		4.16	54.30	1309
8 16	78	1506	53	517	60		0.00			1.10	2.47	92	1512	58	700		1.41	49.63	1225
8 17	79	1440	55	536	60		0.00					90	1358	59	700		0.77	48.64	1153
8 18	79	1438	60	700	64		0.00					87	1554	63	701		1.70	44.74	1405
8 19	72	1149	60	345	63		0.11			2.32		77	1548	64	602		1.75	25.96	1548
8 20	74	1452	61	547	65		0.00			2.25		80	1438	65	700		1.18	29.14	1005
8 21	86	1306	65	558	69		0.00			2.10		97	1447	66	702		1.55	47.31	1154
8 22	88	1430	69	700	72		0.13			2.07		97	1444	71	700		1.99	41.24	1222
8 23	89	1451	66	548	69		0.00			1.88		100	1422	71	638		1.41	45.04	1219
8 24	76	1446	57	605	62		0.00					79	1444	61	616		1.49	15.78	1328
8 25	82	1437	56	601	60		0.00					94	1452	62	701		1.84	44.27	1252
8 26	81	1441	59	353	64		0.00			1.50		94	1445	61	618		1.41	45.37	1218
8 27	88	1430	64	700	72		0.01			1.32		95	1435	62	700		2.24	40.45	1251
8 28	90	1345	70	415	73		0.00			1.20		95	1414	70	714		1.70	45.99	1209
8 29	83	1149	71	2256	71		0.40			1.56		85	1149	72	603		0.96	39.62	1047
8 30	84	1614	65	351	68		0.00			1.46		91	1536	69	635		1.25	52.34	1239
8 31	86	1445	68	700	72		0.00					93	1513	69	701		2.40	46.05	1117
Average	83		64		68	Total	2.46	0.0				90		66			1.72	31.81	
						Greatest	0.71	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	September 2013		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
9 1	90	1333	67	541	71	0.00			1.14		97	1424	70	700	2.37	43.16	1341	
9 2	91	1425	71	703	72	0.00					101	1433	71	703	1.25	36.19	1210	
9 3	92	1448	71	332	74	0.07			0.90	2.3	101	1424	72	623	1.20	45.85	1105	
9 4	86	1511	55	538	60	0.00			2.08		94	1514	62	632	2.81	44.00	1245	
9 5	85	1537	58	615	62	0.00			1.91		93	1450	62	701	1.15	37.35	1201	
9 6	85	1351	56	546	58	0.00			1.73		90	1449	57	647	2.96	42.44	1242	
9 7	79	1513	51	537	54	0.00					89	1515	57	634	1.56	37.54	1207	
9 8	83	1336	54	700	66	0.00					92	1428	57	705	1.81	40.08	1152	
9 9	88	1406	59	428	62	0.00			1.25		93	1428	63	700	1.62	43.12	1246	
9 10	79	1543	61	706	71	0.00			1.14		84	1545	63	702	0.76	2.22	656	
9 11	93	1359	70	402	73	0.00			0.98	3.02	98	1458	69	700	1.33	33.62	1116	
9 12	95	1411	71	551	73	0.00			2.81		97	1455	72	701	2.36	34.03	1252	
9 13	95	1348	66	608	66	1.75			4.37		95	1352	70	650	1.87	39.04	1313	
9 14	77	1345	52	440	56	0.00					83	1438	56	656	4.93	39.89	1218	
9 15	72	1558	46	613	49	0.00					80	1553	55	639	2.69	40.12	1231	
9 16	78	1426	49	700	62	0.00			3.84		82	1533	55	704	1.58	37.20	1230	
9 17	73	1532	49	647	51	0.02			3.79		74	1529	55	657	2.53	37.30	1416	
9 18	68	1439	42	528	45	T			3.65		79	1519	52	653	2.22	36.81	1004	
9 19	71	1543	45	701	49	0.00			3.54		79	1521	52	703	0.90	36.40	1215	
9 20	78	1322	49	701	53	0.00			3.41		84	1538	55	702	1.69	35.42	1352	
9 21	81	1358	53	700	60	0.00					85	1513	59	704	2.36	37.67	1208	
9 22	78	1208	57	635	59	0.87					76	1328	62	703	2.17	39.73	1204	
9 23	73	1244	48	340	53	0.00			3.90		79	1406	57	657	3.13	47.72	1215	
9 24	67	1525	43	616	45	0.00			3.88		76	1536	52	659	2.68	47.01	1101	
9 25	74	1623	45	602	48	0.02			3.60		79	1552	52	709	1.34	34.43	1212	
9 26	75	1343	48	700	52	0.00			3.54		79	1420	54	707	0.74	12.43	744	
9 27	76	1511	52	46	57	0.00			3.40		81	1515	58	714	0.82	0.02	604	
9 28	73	1412	53	144	55	0.00					78	1521	59	657	1.03	0.05	713	
9 29	72	1619	49	535	50	0.00					74	1524	55	648	0.91	0.04	2206	
9 30	74	1510	48	313	49	0.00			2.75		77	1534	54	711	0.79	0.10	659	
Average	80		55		59	Total	2.73	0.0			86		60		1.85	32.03		
						Greatest	1.75	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	October 2013	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 occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance			watts per sq ft	time occurance	
10 1	78	1516	49	703	56		0.00			2.61		85	1516	54	707		0.72	1.24	706	
10 2	83	1431	55	611	56		0.00			2.52		84	1433	58	701		0.86	0.06	655	
10 3	86	1523	56	700	59		0.00			2.36		88	1447	61	705		1.45	0.07	706	
10 4	85	1330	58	557	59		0.00			2.22		84	1511	63	700		0.61	0.09	700	
10 5	89	1352	59	700	63		0.00					91	1444	63	709		0.75	0.23	806	
10 6	90	1415	62	635	63		0.00					91	1429	66	656		0.59	0.04	757	
10 7	89	1213	63	700	72		0.00			1.72		87	1438	66	702		3.67	0.03	739	
10 8	76	1035	47	550	47		0.87			2.54		75	1102	52	653		2.70	0.48	923	
10 9	65	1404	47	700	53		0.00			2.47		67	1445	51	715		2.40	0.13	701	
10 10	60	1138	53	702	53		1.25			3.78		59	1431	52	707		6.10	0.14	658	
10 11	58	656	53	707	58		1.67			O.F.		58	1540	54	702		7.64	0.62	1426	
10 12	62	1643	58	700	60		3.05			O.F.	2.01	63	1509	58	702		5.40	0.39	1036	
10 13	66	1313	59	650	59		0.29					69	1451	60	654		4.77	1.06	1630	
10 14	64	1454	55	650	55		0.00			2.24		66	1532	56	658		2.45	0.61	846	
10 15	69	1340	47	618	47		0.03			2.15		77	1514	52	658		1.22	0.10	659	
10 16	72	1355	47	700	60		0.00			2.07		78	1453	52	720		0.83	0.34	734	
10 17	72	1424	58	609	60		0.00			2.01		74	1423	60	651		0.70	0.01	645	
10 18	76	1227	50	657	51		0.00			1.92		78	1421	52	659		3.61	0.02	2154	
10 19	68	1506	43	243	46		0.00					74	1432	49	641		2.13	0.01	625	
10 20	64	1303	45	644	45		0.00					62	1355	45	656		2.99	0.01	703	
10 21	65	1339	37	637	37		T			1.65		71	1435	45	659		2.50	0.01	2106	
10 22	68	1417	37	700	47		T					71	1435	45	713		2.66	0.02	753	
10 23	66	1311	44	659	44		0.12			1.60		67	1524	48	712		1.55	0.08	700	
10 24	58	1321	36	656	36		0.00					64	1401	41	655		1.79	0.27	1013	
10 25	54	1217	34	2248	38		0.00			1.44		56	1300	39	653		2.71	0.01	715	
10 26	57	1441	28	638	28		0.00					64	1444	39	708		2.97	0.01	2224	
10 27	58	1447	29	700	35		0.00					62	1430	40	700		5.95	0.48	724	
10 28	61	1303	34	619	34		0.00			1.17		64	1503	41	643		1.67	0.01	637	
10 29	67	1507	34	702	36		0.00					66	1514	41	702		0.79	0.01	801	
10 30	67	1523	36	700	49		0.05					70	1447	42	730		0.65	0.07	632	
10 31	66	1426	49	700	54		0.00					69	1439	49	705		0.73	0.68	1021	
Average	70		47		50	Total	7.33	0.0				72		51			2.44	0.24		
						Greatest	3.05	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		November 2013		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	71	436	54	711	70	0.00					66	1452	53	702		8.19	0.30	659		
11 2	74	1514	49	653	49	0.04					71	1543	52	700		2.53	0.85	1125		
11 3	71	1156	43	239	48	0.00					70	1346	43	624		2.19	0.03	1723		
11 4	56	1347	29	656	29	0.00			0.84	2.68	61	1349	38	659		5.18	0.01	307		
11 5	46	1216	29	700	37	0.00			2.56		50	1402	37	726		1.80	0.01	2343		
11 6	60	1436	37	701	48	0.00			2.54		55	1550	39	757		0.87	0.01	742		
11 7	71	1404	48	700	57	T			2.46		69	1415	50	738		3.80	0.01	154		
11 8	62	1144	32	649	32	0.00			2.42		59	1228	39	659		4.96	0.04	1219		
11 9	52	1221	25	653	26	0.00					51	1510	38	700		3.98	0.01	1736		
11 10	56	1457	26	702	40	0.00					54	1501	37	720		4.22	0.24	806		
11 11	65	1307	32	653	32	0.00			2.11		60	1436	39	643		5.72	0.01	536		
11 12	59	1355	32	712	49	0.00			1.95		56	1423	39	715		4.90	0.01	1423		
11 13	49	701	28	351	28	0.00			1.90		44	722	33	651		7.09	0.01	634		
11 14	45	1403	22	659	22	0.00			1.84		43	1443	33	815		3.59	0.01	746		
11 15	60	1422	22	701	26	0.00			1.80		50	1526	34	719		1.02	0.01	618		
11 16	61	1429	26	702	45	0.31					53	1516	36	741		0.87	0.03	700		
11 17	53	1312	45	702	51	0.00					52	1616	45	700		0.61	4.31	1330		
11 18	67	1413	50	801	55	0.15			2.05		64	1527	50	749		4.50	0.93	844		
11 19	71	1314	43	439	44	0.00					66	1420	39	649		6.38	0.01	732		
11 20	49	1343	30	345	33	0.00					53	1431	36	658		5.86	0.01	741		
11 21	47	1320	27	315	31	0.00					50	1453	36	658		1.57	0.01	2055		
11 22	51	1317	31	700	46	0.00					45	1613	36	716		0.59	0.01	215		
11 23	63	1251	41	658	42	0.00			1.70		57	1546	43	704		4.34	0.01	1700		
11 24	51	1352	24	655	24	0.00					52	1430	31	659		9.63	0.01	141		
11 25	33	1321	20	658	20	0.00			Frozen		40	1348	31	703		6.67	0.00	700		
11 26	38	1420	20	722	36	0.00			Frozen		39	1530	32	700		3.05	0.00	735		
11 27	57	2339	32	959	40	2.27			3.67		41	20	33	721		3.44	0.35	908		
11 28	40	924	27	700	27	0.22					40	1259	32	655		8.39	0.38	1044		
11 29	39	1543	21	622	22	0.00					45	1428	32	717		2.59	0.01	657		
11 30	42	1351	21	655	21	0.00					45	1351	35	659		3.11	0.41	837		
Average	55		32		38	Total	2.99	0.0			53		38			4.05	0.27			
						Greatest	2.27	0.0												

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM		December 2013		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 occurene	
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance					
12 1	39	1219	20	718	22		0.00					44	1344	35	735		0.68	0.01	704	
12 2	52	1423	22	718	38		0.00			3.71		44	1443	36	743		0.67	0.42	832	
12 3	48	1419	38	705	39		0.00					45	1501	39	759		0.59	0.01	901	
12 4	59	1324	36	2336	38		0.00			3.63		54	1536	41	737		1.15	0.01	608	
12 5	58	1328	38	700	52		0.00					51	1624	41	719		0.71	0.01	630	
12 6	70	1341	52	706	64		0.07			3.64		64	1523	50	703		7.79	0.13	201	
12 7	64	725	35	700	35		0.50					62	706	39	650		7.29	0.25	801	
12 8	43	1250	27	253	29		0.00					44	1312	36	659		4.77	0.03	745	
12 9	32	653	27	1341	32		1.47	0.9	1	overflow		37	1207	34	518	snow turn to rain	1.30	0.30	1545	
12 10	35	1403	32	731	33		0.22		T	frozen		39	1320	34	732		0.67	0.15	1334	
12 11	38	1552	20	625	21		0.10	1.0	1	frozen		40	1527	34	656		1.26	0.16	1049	
12 12	42	1445	20	725	26		0.00		T	frozen		43	1509	34	737		2.58	0.04	1017	
12 13	33	1437	19	2118	28		0.00		0	frozen		42	1505	34	655		3.59	0.00	2302	
12 14	43	1317	28	2032	32		0.00					41	1346	34	737		2.17	0.00	758	
12 15	41	1250	32	715	34		0.58					39	1131	36	818		1.66	0.15	1609	
12 16	48	1241	27	2228	35		0.00			frozen		44	1456	36	743		5.15	0.03	936	
12 17	37	1306	31	1808	31		0.00			frozen		41	1306	34	656		1.75	0.00	918	
12 18	38	1450	28	420	29		0.02			frozen		38	1508	34	659		0.59	0.02	1955	
12 19	41	1417	22	254	27		0.00			frozen		42	1439	33	656		2.63	0.01	825	
12 20	62	1505	26	705	47		0.00			1.91		49	1616	33	749		5.53	0.01	539	
12 21	60	1617	46	733	56		0.00					51	1615	39	742		7.00	0.02	2012	
12 22	72	1340	55	716	70		0.00					67	1448	50	704		11.46	0.01	31	
12 23	71	854	60	635	61		0.40					65	1001	59	649		5.12	0.63	1007	
12 24	64	1053	31	656	31		0.43			2.53		61	1127	38	659		6.79	0.17	1243	
12 25	41	1521	20	656	20		0.00					44	1437	31	646		7.20	0.01	2121	
12 26	35	1439	19	419	23		0.00					40	1446	31	700		1.32	0.00	836	
12 27	46	1435	22	648	22		0.00					40	1449	32	750		1.11	0.01	907	
12 28	51	1455	22	727	27		0.00					41	1503	33	743		1.62	0.00	735	
12 29	59	1428	25	739	41		0.19					43	1454	34	804		2.40	0.09	508	
12 30	48	1952	34	222	36		0.80			3.31		46	1738	39	647		2.28	0.07	1344	
12 31	45	1112	30	504	30		0.00					43	1436	36	657		2.97	0.01	741	
Average	49		30		36	Total	4.78	1.9				47		37			3.28	0.09		
						Greatest	1.47	1.0												

S. No. 18-9070-4