

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		January 2011		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				INCHES	reading after	maximum	time occurance	minimum	time occurance					
1 1	54	1443	25	720	32	0.00					50	1426	31	726		2.00	17.79	1318	
1 2	59	23	32	706	51	0.02					49	526	32	712		8.47	9.71	926	
1 3	51	712	27	654	27	0.12					50	1459	34	658		7.10	13.33	1400	
1 4	39	1442	20	512	22	0.00					47	1539	33	801		4.30	16.43	1209	
1 5	45	1524	21	701	31	0.00					45	1447	34	745		4.98	17.33	1131	
1 6	41	1526	23	238	24	0.00					47	1548	33	749		3.55	19.82	1133	
1 7	41	1510	23	746	29	0.00					50	1420	34	801		3.27	15.18	1205	
1 8	33	1316	26	2130	28	T	0.1	T			44	1418	33	656		3.78	12.00	959	
1 9	33	1400	21	646	21	T	0.1	0			41	1526	31	618		8.19	20.99	1249	
1 10	34	1452	21	707	23	0.00					47	1416	31	722		7.93	17.10	1216	
1 11	34	1537	19	101	27	0.00					38	1548	31	709		3.43	16.51	1206	
1 12	32	1352	25	611	26	0.12	1.1	1			34	1457	31	725		3.30	7.00	1412	
1 13	34	1229	25	653	25	0.00		T			39	1307	31	653		9.28	24.00	1220	
1 14	34	1525	18	657	18	0.00		T			42	1432	31	242		6.43	16.70	1216	
1 15	36	1517	18	706	24	0.00					42	1412	31	702		3.33	22.32	1206	
1 16	44	1941	23	740	35	0.00					43	1231	31	723		5.83	22.64	1231	
1 17	41	1357	25	2031	28	0.00					47	1458	32	649		4.63	19.82	1217	
1 18	32	653	27	2216	32	0.34	0.1	T			35	1542	32	906	Ice accumulation	3.16	6.43	1258	
1 19	35	1509	31	1007	33	0.00					38	1620	32	716		1.96	9.13	1503	
1 20	51	1355	29	659	29	0.00					48	1433	33	742		5.38	25.94	1132	
1 21	45	1458	28	738	32	0.02					52	1451	33	748		5.94	23.92	1321	
1 22	35	1145	14	630	15	0.00					50	1501	32	657		9.01	24.53	1146	
1 23	26	1619	10	125	18	0.00					37	1601	31	633		3.11	13.50	1446	
1 24	29	1543	7	627	7	0.00					38	1533	31	632		5.64	24.17	1137	
1 25	30	1559	7	731	28	0.00					37	1405	31	734		4.53	20.62	1211	
1 26	48	1518	27	745	33	0.36	0.2	T			40	1405	31	704	Snow & Rain	3.28	15.95	1317	
1 27	34	1628	31	658	31	1.01	3.6	4			34	1403	31	659	Rain & Snow	7.37	5.59	1149	
1 28	36	1328	26	2244	28	0.00		4			38	1309	31	646		3.99	26.76	1309	
1 29	36	1347	24	655	24	0.05	0.1	4			34	1547	31	655		2.77	8.97	1357	
1 30	37	1515	20	621	20	0.00		4			35	1505	31	459		2.72	18.53	1454	
1 31	45	1530	20	747	27	0.00		3			47	1334	31	718		3.39	28.22	1300	
Average	39		22		27	Total	2.04	5.3			43		32			4.90	17.45		
						Greatest	1.01	3.6											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	February 2011		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 occurene	
	maximum	time occurance	minimum	time occurance	present				reading after	maximum	time occurance	minimum	time occurance					
2 1	30	1202	26	738	28	T		3			35	1607	32	652		3.64	7.94	944
2 2	36	1555	28	700	34	0.78		1			38	1712	32	702		3.14	8.02	1344
2 3	52	1421	27	658	28	0.00		T			50	1500	33	727		8.63	31.02	1244
2 4	36	1539	22	700	22	0.00		0			51	1440	33	755		4.23	21.43	1129
2 5	42	1501	22	712	33	0.07					49	1500	33	721		3.56	17.00	1306
2 6	43	1915	32	823	37	0.04					39	1628	35	645		5.95	6.31	1316
2 7	49	1506	25	700	25	0.00					57	1530	35	724		2.94	19.87	1219
2 8	51	1218	24	729	38	0.00					56	1413	38	816		4.10	20.71	1208
2 9	39	1033	17	559	17	0.00					50	1526	33	658		9.26	28.07	1204
2 10	35	1324	17	702	24	0.03	0.4	T			49	1357	33	809		6.10	29.35	1152
2 11	33	1537	12	625	13	0.00		0			52	1412	34	832		4.55	21.14	1206
2 12	46	1441	13	711	19	0.00					54	1456	34	752		3.26	20.36	1223
2 13	46	1520	19	700	33	0.00					53	1512	36	815		5.85	25.92	1225
2 14	54	1656	33	717	47	0.00					52	1507	38	852		11.15	30.34	1129
2 15	67	1408	31	655	31	0.00					64	1531	37	658		13.67	23.83	1320
2 16	46	1433	23	151	30	0.00					53	1529	36	658		4.68	21.58	1219
2 17	58	1517	30	743	44	0.00					55	1546	35	726		7.19	23.78	1117
2 18	71	1435	44	711	57	0.00					65	1547	41	750		7.07	20.93	1239
2 19	75	1606	48	652	48	0.00					69	1523	40	653		10.64	25.28	1251
2 20	55	1341	29	700	29	0.00					58	1533	35	655		13.08	22.41	1229
2 21	53	652	29	719	52	0.00					53	1540	34	730		5.46	31.73	1240
2 22	53	725	24	639	24	0.27	0.6	1			44	1321	34	656		7.77	8.75	1236
2 23	37	1428	19	700	19	0.00					47	1526	34	838		4.16	35.60	1317
2 24	48	1533	18	705	24	0.00					56	1606	34	722		2.35	23.21	1226
2 25	52	1508	23	704	45	0.22					49	1507	36	726		6.93	19.36	1313
2 26	66	1232	32	700	32	0.13					62	1353	37	652		10.54	32.91	1235
2 27	48	1416	31	614	31	0.00					52	1539	37	736		5.15	25.64	1158
2 28	62	1406	31	707	46	0.10					59	1500	38	801		4.94	31.41	1122
Average	49		26		33	Total	1.64	1.0			53		35			6.43	22.64	
						Greatest	0.78	0.6										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM		March 2011		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	
3 1	75	1117	33	700	33		0.45					62	1120	38	652		10.10	27.62	1116	
3 2	49	1519	32	2239	33		0.00					60	1546	37	656		5.47	26.43	1211	
3 3	63	1520	25	644	25		0.00					63	1523	34	658		10.64	28.59	1151	
3 4	41	1503	25	705	26		0.00					54	1542	34	712		4.47	30.33	1118	
3 5	49	1432	26	706	44		0.10					58	1537	36	721		6.45	29.72	1317	
3 6	64	1404	44	700	56		1.09					59	1534	41	700		9.85	22.80	1135	
3 7	59	1127	34	605	35		0.00					58	1501	36	651		10.59	10.20	1124	
3 8	49	1610	25	614	25		0.00					58	1530	36	707		6.53	29.72	1219	
3 9	51	1324	25	701	37		0.00					57	1438	37	705		3.79	30.69	1251	
3 10	49	342	36	700	49		0.82					48	1512	38	720		8.30	15.39	1114	
3 11	57	2004	40	639	41		1.28					54	2014	46	650		8.61	8.50	1254	
3 12	50	1319	36	626	37		0.00					56	1405	38	450		6.60	55.11	1313	
3 13	60	1705	37	700	40		0.00					54	1656	38	718		6.73	36.00	958	
3 14	59	1331	29	540	33		0.00					65	1522	38	659		6.64	35.69	1210	
3 15	52	1315	29	541	30		0.00					61	1534	38	708		4.00	48.00	1232	
3 16	51	1127	30	701	42		0.68					55	1516	40	703		6.20	46.74	1138	
3 17	59	1428	40	657	40		0.00					61	1536	44	703		4.80	55.16	1026	
3 18	66	1448	40	700	53		0.00					70	1532	45	701		6.14	48.67	1115	
3 19	78	1655	52	658	53		0.00					70	1702	49	702		7.85	43.45	1115	
3 20	61	1445	33	625	34		0.00					69	1447	41	658		8.13	36.47	1226	
3 21	52	1325	34	706	43		0.02					63	1604	41	705		6.68	35.10	1236	
3 22	72	1638	42	709	49		0.25					65	1658	43	724		6.81	29.20	1039	
3 23	63	1409	44	349	44		0.01					71	1444	47	653		6.22	33.41	1144	
3 24	50	1709	39	626	39		0.43					50	1708	43	658		6.59	6.74	1111	
3 25	44	1329	27	627	30		0.00					49	1409	37	622		5.64	30.34	1336	
3 26	48	1444	29	622	31		0.00					58	1534	38	700		6.38	34.02	1205	
3 27	48	1451	30	645	30		0.02	0.2	T			62	1545	38	718		4.74	31.44	1215	
3 28	47	1401	25	334	30		0.00		0			58	1559	38	636		4.30	36.81	1235	
3 29	48	1648	29	2304	34		0.00					58	1604	38	634		4.85	33.71	1106	
3 30	52	1459	34	700	42		0.00					63	1549	38	741		4.05	31.06	1235	
3 31	48	1224	36	607	37		0.18					47	1417	39	609		5.43	14.50	1225	
Average	55		34		38	Total	5.33	0.2				59		39			6.57	31.66		
						Greatest	1.28	0.2												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	April 2011	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 occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence				
4 1	42	1613	36	601	37	0.20					44	1657	39	706		4.63	7.58	1433
4 2	49	1316	31	345	38	0.00					53	1541	38	546		6.05	42.07	1137
4 3	52	1548	38	700	42	0.07					54	1602	38	624		5.94	38.76	1036
4 4	59	1633	42	700	56	0.03			3.03		63	1418	39	704		7.26	33.99	1213
4 5	86	1528	55	701	60	0.27					78	1534	47	703		13.50	31.35	1146
4 6	61	737	32	623	37	0.19			2.95		59	739	38	647		8.10	44.94	1335
4 7	64	1635	37	700	45	0.00			2.73		69	1535	38	703		8.11	39.68	1258
4 8	67	1409	44	600	45	0.03			2.62		77	1550	44	701		4.69	31.03	1215
4 9	52	1053	42	412	43	0.37					55	1120	43	618		5.28	34.59	1035
4 10	52	1534	43	703	49	0.00					56	1628	43	700		3.20	23.11	1222
4 11	64	1450	49	702	62	0.00			2.85		69	1603	50	702		5.97	44.89	1311
4 12	85	1555	62	700	66	T			2.61		86	1416	56	700		8.71	29.33	1128
4 13	67	1153	49	553	49	0.21			2.86		67	1217	51	638		7.12	33.33	1149
4 14	56	1633	44	548	49	0.11			2.79		61	1357	46	629		4.80	26.26	1242
4 15	72	1643	42	556	52	0.00			2.62		82	1558	46	700		3.49	30.51	1202
4 16	65	1425	48	52	51	0.00					78	1441	49	509		8.14	28.44	1153
4 17	63	1528	44	516	48	1.04			3.35		59	2021	48	628		10.00	15.95	1416
4 18	67	1715	47	552	51	0.00			3.11		74	1458	48	702		7.31	34.12	1211
4 19	76	1545	51	700	63	0.00					70	1543	50	700		6.65	27.06	1451
4 20	69	1444	50	433	55	0.02			2.86		71	1628	54	620		3.60	27.12	1440
4 21	85	1605	52	619	52	0.00					93	1019	44	552	hole in evap pan lost water	10.73	32.96	1304
4 22	64	1610	42	2331	45	0.00					64	1528	34	2304		6.29	32.90	1313
4 23	48	654	42	2020	48	0.42					51	1038	43	2051		4.17	10.02	731
4 24	73	1718	48	703	63	0.02					81	1413	47	700		7.51	42.26	1209
4 25	86	1556	60	546	65	0.32			3.41		94	1203	58	700	fixed evap pan	4.79	34.94	1347
4 26	87	1502	65	702	68	0.00			3.25		96	1321	60	700		7.89	32.41	1230
4 27	85	1430	68	609	69	0.00			3.01		86	1426	65	700		9.50	39.71	1128
4 28	83	1534	69	700	75	0.23			3.06		83	1539	68	700		11.41	38.23	1219
4 29	78	834	49	334	59	0.42			3.31		77	1502	54	622		5.86	37.68	1353
4 30	69	1400	50	546	50	0.00					89	1124	46	2209		5.76	45.83	1224
Average	67		48		53	Total	3.95	0.0			71		48			6.88	32.37	
						Greatest	1.04	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM		May 2011		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	67	1536	44	438	51		0.00			2.97		82	1258	41	436		4.38	31.44	1156	
5 2	62	1411	51	704	58		0.03			2.97		62	1437	54	750		3.40	15.01	923	
5 3	80	1445	58	705	65		0.00			2.83		84	1451	55	700		5.37	35.79	941	
5 4	82	1611	47	620	47		0.52					85	1346	54	658		9.87	34.99	1353	
5 5	59	1636	44	444	49		0.35			3.33		62	1533	44	612		6.12	50.33	1216	
5 6	68	1649	40	538	50		0.00			3.12		74	1520	45	704		5.08	43.50	1214	
5 7	72	1358	46	541	57		0.00					77	1359	49	700		5.70	41.87	1203	
5 8	73	1328	49	456	54		0.00					80	1405	53	700		3.27	38.59	1404	
5 9	75	1442	48	538	57		0.00			2.59		83	1445	56	702		2.63	39.28	1244	
5 10	73	1338	45	510	55		0.00			2.39		84	1507	52	601		4.58	39.31	1211	
5 11	76	1628	53	2245	58		0.00			2.21		84	1548	53	700		3.79	35.77	1239	
5 12	75	1450	49	512	56		0.00			2.00		90	1501	55	609		4.34	31.37	1229	
5 13	76	1616	56	701	59		0.00			1.82		88	1441	56	700		5.04	31.41	1238	
5 14	67	1416	59	700	60		0.10					69	1421	59	543		5.62	19.47	1315	
5 15	67	1515	60	702	63		0.72					69	1607	60	700		4.12	12.64	1433	
5 16	78	1546	58	453	62		0.00			2.46		88	1451	64	533		4.18	46.44	1241	
5 17	78	1343	62	649	62		0.16			2.60		92	1416	64	702		4.48	43.46	1143	
5 18	74	1442	62	701	65		0.25			2.53		78	1509	63	557		7.24	49.94	1141	
5 19	72	1639	59	258	62		0.30			2.74		79	1639	64	709		3.50	36.33	1442	
5 20	75	1317	53	359	60		0.08			2.70		82	1321	59	554		3.35	49.21	1304	
5 21	73	1434	55	532	64		0.00					81	1450	59	550		3.15	42.67	1433	
5 22	81	1510	58	447	67		0.00			2.40		92	1510	60	700		3.18	35.28	1308	
5 23	83	1100	65	333	68		0.02			2.27		88	1224	66	521		5.18	41.28	1159	
5 24	85	1355	67	701	72		0.00			2.09		92	1410	67	700		7.52	32.80	1110	
5 25	88	1331	65	419	73		0.00			1.93		91	1331	69	553		4.62	43.98	1226	
5 26	86	1512	68	443	74		0.00			1.71		98	1410	68	527		5.01	37.04	1138	
5 27	91	1407	67	514	73		0.00			1.47		97	1426	68	523		6.53	32.70	1010	
5 28	87	1506	63	420	67		0.05					94	1506	65	553		5.64	37.78	1241	
5 29	85	1537	67	701	73		0.00					94	1541	66	700		5.75	44.16	1335	
5 30	84	1421	69	307	76		0.00			0.96	1.91	96	1450	70	542		5.33	40.45	1054	
5 31	96	1509	70	502	81		0.00			1.71		102	1445	72	700		2.65	32.76	1313	
Average	77		57		63	Total	2.58	0.0				84		59			4.86	37.00		
						Greatest	0.72	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM June 2011		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 occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence				
6 1	95	1453	72	508	78	0.00			1.47		103	1431	73	544		3.57	33.36	1213
6 2	96	1456	66	528	74	0.37			1.60		98	1424	66	603		4.41	34.30	1141
6 3	86	1533	54	515	62	0.00			1.24		90	1411	55	533		5.77	35.90	1140
6 4	79	1441	50	510	61	0.00					87	1421	55	551		4.47	34.55	1027
6 5	85	1416	61	701	65	0.12					92	1420	56	700		3.26	46.62	1208
6 6	81	1537	61	454	69	0.00			0.72	1.52	89	1608	63	543		2.74	36.09	1406
6 7	84	1400	60	506	71	0.00			1.32	2.72	94	1427	63	546		2.80	38.13	1234
6 8	88	1608	65	503	74	0.00			2.49		91	1456	65	700		4.48	31.67	1103
6 9	98	1613	73	431	81	0.00			2.22		102	1527	71	700		2.95	31.40	1230
6 10	99	1427	70	510	75	0.10			2.01		103	1345	72	541		4.57	33.20	1259
6 11	92	1334	70	444	77	0.00					102	1338	73	520		3.09	33.67	1249
6 12	90	1428	69	451	74	0.00					95	1423	69	522		4.20	35.99	1255
6 13	90	1225	63	524	64	0.03			1.44		96	1311	63	611		5.00	40.70	1120
6 14	79	1459	59	2327	65	0.00			1.18		91	1353	58	549		5.00	36.95	1256
6 15	75	1029	53	520	62	0.00			1.03		80	1131	55	538		5.04	46.08	1247
6 16	84	1456	57	442	63	0.00			0.83	1.62	94	1505	56	701		2.69	33.54	1321
6 17	80	1321	62	504	66	0.84			2.33		80	1418	61	700		5.32	41.60	1041
6 18	84	1516	65	702	72	0.08					92	1343	65	701		3.45	52.28	1110
6 19	89	1248	71	408	73	0.00					96	1523	69	701		2.61	44.89	1050
6 20	84	1325	64	643	64	0.17			2.10		89	1445	69	659		3.16	43.30	1242
6 21	80	1631	64	710	69	0.03			2.01		88	1711	68	552		3.37	41.95	1251
6 22	86	1528	68	451	77	0.00					95	1536	69	700		4.05	45.69	1302
6 23	91	1311	75	340	78	0.00			1.62		98	1249	72	701		5.12	41.08	1059
6 24	85	1013	70	527	74	0.00			1.47	2.94	89	1417	69	538		6.49	40.44	1241
6 25	89	1400	65	527	73	0.00					95	1340	68	548		4.10	42.05	1144
6 26	84	1356	60	518	67	0.00					88	1541	66	549		3.22	43.32	1259
6 27	84	1506	67	702	70	0.00			2.31		90	1400	66	700		3.12	36.59	1310
6 28	82	1622	67	146	74	0.00			2.19		86	1626	70	702		2.68	39.00	1236
6 29	94	1409	71	450	76	0.00			1.93		100	1525	71	625		4.97	37.99	1252
6 30	87	1606	61	523	71	0.00			1.61		95	1456	64	554		4.33	32.09	1229
Average	87		64		71	Total	1.74	0.0			93		65			4.00	38.81	
						Greatest	0.84	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		July 2011		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				INCHES	reading after	maximum	time occurance	minimum	time occurance					
7 1	86	1518	59	446	72	0.00			1.36	2.65	95	1507	63	556		2.98	33.19	1155	
7 2	90	1522	59	517	68	0.00					96	1352	65	700		2.97	31.10	1247	
7 3	92	1436	68	700	69	0.00					98	1431	66	701		3.95	32.73	1221	
7 4	92	1457	67	1827	73	0.38					100	1500	70	700		3.33	35.24	1340	
7 5	88	1515	69	502	75	0.51			2.72		95	1554	72	700		2.43	33.25	1349	
7 6	92	1458	70	431	78	0.00			2.47		100	1336	74	604		2.52	35.10	1245	
7 7	87	1542	70	206	74	0.00			2.32		94	1619	71	542		4.44	45.31	1131	
7 8	94	1355	70	356	76	0.00			2.04		102	1419	72	700		3.47	32.85	1257	
7 9	88	1400	67	514	73	1.27					93	1406	70	544		4.13	40.06	1157	
7 10	89	1610	66	454	73	0.00					98	1530	71	700		3.48	40.31	1310	
7 11	89	1332	69	412	76	0.00			2.52		98	1443	71	600		4.07	40.77	1226	
7 12	92	1535	72	231	78	0.68			2.95		98	1416	72	700		5.60	31.34	1430	
7 13	93	1639	71	513	79	0.00			2.66		100	1441	74	558		3.58	34.11	1302	
7 14	91	1215	59	528	67	0.29			2.76		96	1332	67	601		2.82	41.39	1328	
7 15	82	1525	62	231	70	0.00			2.52		95	1535	67	610		3.69	35.72	1157	
7 16	81	1536	59	523	68	0.00					89	1627	64	600		3.21	49.89	1255	
7 17	84	1412	65	444	72	0.00					95	1416	65	700		4.30	50.01	1212	
7 18	88	1348	68	527	73	0.00			1.82		98	1355	69	700		5.14	43.77	1308	
7 19	91	1445	73	447	78	0.00			1.58		101	1404	71	700		4.23	30.43	1219	
7 20	95	1241	72	333	77	0.00			1.39		100	1343	74	546		3.28	35.48	1217	
7 21	93	1230	75	510	79	0.00			1.17		104	1419	75	700		2.92	32.10	1134	
7 22	97	1426	78	508	84	0.00			0.90	2.28	104	1405	77	700		4.69	30.12	1214	
7 23	102	1337	77	350	83	0.00					106	1403	79	702		2.30	30.05	1137	
7 24	101	1354	76	431	85	0.00					105	1419	78	554		3.29	32.56	1113	
7 25	96	1548	75	500	79	0.00			1.55		100	1555	77	555		3.17	36.94	1047	
7 26	92	1158	71	446	76	0.18			1.61		98	1202	73	541		2.64	36.10	1156	
7 27	93	1439	71	540	77	0.00			1.28		101	1421	70	624		5.15	32.62	1228	
7 28	92	1628	67	242	75	0.00			1.01	2.51	98	1505	69	551		3.28	29.17	1236	
7 29	93	1306	75	453	80	0.00					96	1309	70	700		4.13	34.82	1305	
7 30	102	1503	78	546	81	0.00					103	1408	75	618		4.44	29.33	1240	
7 31	96	1522	71	122	76	0.00					100	1527	73	616		3.58	33.25	1003	
Average	92		69		76	Total	3.31	0.0			99		71			3.65	35.78		
						Greatest	1.27	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		August 2011		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 occurance	present				INCHES	reading after	maximum	time occurance	minimum	time occurance					
8 1	96	1352	71	509	77	0.00			1.46		100	1410	73	610	4.07	32.28	1139		
8 2	99	1520	68	528	75	0.17			1.37		100	1327	69	624	3.80	32.87	1248		
8 3	95	1553	75	409	80	0.00			1.10		98	1503	70	700	4.46	30.03	1228		
8 4	83	1227	73	150	74	0.19			1.25	1.61	83	1402	74	627	2.58	15.87	1342		
8 5	83	1504	64	527	72	0.01			1.47		92	1516	68	604	3.74	41.27	1303		
8 6	87	1440	66	516	72	0.00					93	1539	68	558	5.00	39.17	1258		
8 7	90	1409	72	700	77	*					93	1405	69	700	6.42	35.15	1211		
8 8	93	1359	72	401	76	0.50			1.53		95	1356	72	625	Two day rain total		3.69	36.13	1255
8 9	91	1605	70	454	75	0.00			1.19		98	1533	72	602	3.39	38.80	1205		
8 10	93	1525	68	539	73	0.01			1.02	1.37	98	1451	69	603	3.65	40.86	1125		
8 11	91	1541	64	358	69	0.00			1.13	1.6	94	1355	66	626	3.54	36.17	1211		
8 12	88	1524	59	552	66	0.00			1.47		91	1524	63	618	3.28	33.97	1155		
8 13	89	1533	63	236	69	0.00					96	1529	64	702	2.88	32.15	1038		
8 14	85	1131	69	700	72	*					85	1351	66	700	4.68	34.03	1130		
8 15	83	1534	66	112	68	2.22			3.18		90	1537	69	634	Two day rain total		4.60	45.65	1322
8 16	79	1136	65	428	69	0.28			3.38		83	1437	66	627	2.88	41.67	1136		
8 17	84	1450	64	518	69	0.06			3.25		90	1454	67	700	4.57	47.46	1140		
8 18	89	1349	69	448	71	0.00			3.04		95	1350	69	700	3.34	46.05	1303		
8 19	89	1343	68	501	71	0.05			2.91		94	1438	70	700	4.37	56.05	1105		
8 20	87	1505	62	548	66	2.10					95	1610	67	622	2.46	43.90	1332		
8 21	87	1458	66	701	73	0.00					95	1521	67	701	3.14	42.19	1240		
8 22	89	1254	70	1520	71	1.19			O.F.	2.92	93	1256	73	655	4.74	51.70	1226		
8 23	81	1608	55	544	61	0.00			2.67		90	1449	61	634	4.42	55.16	1350		
8 24	82	1540	56	538	62	0.00			2.51		91	1538	61	700	2.44	51.14	1217		
8 25	85	1401	63	700	76	0.00			2.31		91	1446	63	700	7.66	50.18	1245		
8 26	81	1010	66	342	68	0.39			2.63		83	1547	68	622	4.49	48.50	1338		
8 27	89	1350	68	700	75	0.00					95	1506	68	700	3.68	55.84	1226		
8 28	76	826	68	413	69	5.27					76	856	68	620	16.26	6.45	951		
8 29	84	1508	58	539	63	0.18			O.F.	2.66	84	1637	68	647	4.61	60.88	1206		
8 30	80	1542	55	556	61	0.00					83	1414	61	640	2.02	66.72	1138		
8 31	81	1439	55	551	59	0.00			2.45		89	1539	61	629	2.43	45.70	1209		
Average	87		65		70	Total	12.62	0.0			91		67		4.30	41.74			
						Greatest	5.27	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	September 2011		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 occurene
	maximum	time occurrence	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum	time occurrence					
9 1	85	1331	58	603	61	0.00			2.30		91	1438	61	700		1.61	50.22	1230	
9 2	83	1157	61	700	66	0.06			2.22		86	1329	63	700		1.96	49.41	1158	
9 3	77	1412	64	2246	67	0.00					79	1617	67	616		1.80	18.36	1240	
9 4	83	1604	67	700	70	0.00					87	1632	67	700		3.32	40.40	1246	
9 5	88	1350	70	701	72	0.00					95	1506	70	701		4.47	28.22	1249	
9 6	85	1355	62	621	62	1.90			3.72		90	1410	66	659		5.14	30.85	1349	
9 7	71	655	61	819	71	0.76			4.45	3.39	66	701	64	2303		5.19	8.21	1509	
9 8	81	938	69	309	70	7.46			O.F.	2.87	76	1714	65	701		2.29	35.09	937	
9 9	77	1306	70	700	70	1.32			4.12	2.72	79	1501	71	722		2.67	47.41	1434	
9 10	78	1522	67	541	68	0.00					84	1539	71	648		0.93	54.83	1409	
9 11	84	1449	65	614	67	0.00					90	1555	69	642		1.26	52.46	1222	
9 12	84	1418	61	617	64	0.00			2.44		92	1447	66	633		1.87	50.27	1049	
9 13	84	1414	61	615	64	0.00					94	1452	66	703		0.59	46.77	1226	
9 14	85	1510	62	550	65	0.00					92	1425	66	636		0.83	43.44	1142	
9 15	89	1249	65	558	67	0.00			1.95		93	1444	66	701		0.94	37.47	1205	
9 16	78	1204	43	557	49	0.02			1.85		83	1212	48	634		5.43	48.38	1255	
9 17	67	1327	49	700	54	0.00					74	1500	48	701		2.60	53.76	1309	
9 18	64	1603	50	120	54	0.00					68	1602	54	631		3.86	41.91	1415	
9 19	66	1337	54	703	57	0.00			1.66		71	1527	54	701		1.74	36.63	950	
9 20	70	1150	57	702	62	0.00					76	1301	58	703		1.00	56.93	1141	
9 21	70	1607	59	131	65	0.15					73	1703	62	701		1.44	19.96	1308	
9 22	76	1439	65	700	69	T					79	1512	64	701		0.74	44.95	1410	
9 23	79	1427	68	20	71	0.02			1.62		83	1526	69	701		0.61	60.18	1029	
9 24	73	1230	66	604	66	1.67					75	1352	68	647		0.73	15.73	1146	
9 25	74	1419	66	2138	68	0.00					77	1504	68	700		0.67	30.47	1344	
9 26	78	1526	67	2302	70	0.04			3.21		81	1609	69	701		0.59	31.55	1516	
9 27	82	1331	68	53	71	T			3.11		84	1344	70	618		0.71	58.32	1225	
9 28	80	1407	66	43	69	0.05			3.10		82	1409	68	553		1.15	50.49	1343	
9 29	81	1406	66	2335	68	0.44			3.45		83	1440	68	707		0.69	48.23	1049	
9 30	77	1426	55	147	59	0.00			3.30		82	1426	60	626		1.07	54.03	1212	
Average	78		62		65	Total	13.89	0.0			82		64			1.93	41.50		
						Greatest	7.46	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD		7:00 AM		October 2011		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				INCHES	reading after	maximum	time occurance	minimum	time occurance					
10 1	78	1145	53	624	53	0.00					77	1409	55	659		2.30	47.91	1121	
10 2	53	703	44	656	44	0.39					57	1525	47	656		3.40	20.94	1508	
10 3	51	1131	42	121	45	T				3.50	54	1350	45	625		1.78	57.81	1130	
10 4	57	1254	45	700	48	0.02				3.48	62	1511	45	711		0.93	47.86	1126	
10 5	70	1514	48	700	54	0.00				3.39	73	1440	50	707		2.88	49.36	1122	
10 6	74	1512	44	637	45	0.00				3.26	78	1508	53	659		3.15	35.65	1158	
10 7	72	1451	43	614	44	0.00				3.16	77	1525	51	650		1.82	35.86	1201	
10 8	74	1353	44	700	46	0.00					78	1457	51	715		1.70	34.51	1153	
10 9	75	1448	46	700	47	0.00					79	1504	53	710		1.69	32.45	1203	
10 10	83	1410	47	700	51	0.00				2.87	82	1538	53	717		1.08	32.74	1158	
10 11	82	1424	51	700	59	0.00					81	1458	57	711		1.37	36.63	1042	
10 12	70	937	59	701	63	0.00				2.72	70	1535	62	704		3.87	19.25	928	
10 13	65	1327	63	728	65	0.31					65	1503	63	714		3.09	11.56	1308	
10 14	74	1437	64	543	64	0.10				3.08	75	1541	64	701		3.17	41.15	1230	
10 15	70	1514	47	644	49	0.46					71	1445	50	657		2.83	47.30	1326	
10 16	70	1534	46	440	50	0.00					69	1439	47	656		7.79	33.45	1155	
10 17	72	1504	50	700	58	0.00				3.01	70	1515	47	702		9.75	32.88	1119	
10 18	72	1424	50	131	51	0.00				2.90	74	1436	54	652		3.10	31.15	1158	
10 19	73	1241	51	700	61	0.26				3.04	72	1545	54	704		3.23	36.21	1029	
10 20	70	2215	52	659	52	0.11				3.12	67	2335	56	658		8.19	18.96	827	
10 21	61	1115	42	617	44	0.00				2.98	63	1224	44	652		9.95	42.80	1218	
10 22	63	1332	39	626	40	0.00					65	1427	44	658		4.40	35.86	1046	
10 23	61	1340	36	627	37	0.00					59	1454	42	657		1.76	38.61	1202	
10 24	66	1354	37	700	41	0.00				2.26	67	1512	42	722		1.96	26.81	1158	
10 25	70	1526	41	700	43	0.09				2.28	68	1535	46	706		2.55	28.94	1108	
10 26	68	1535	43	700	54	0.02					68	1440	48	735		5.02	24.61	1154	
10 27	70	1110	54	702	57	0.12					64	1229	49	701		3.09	35.41	1053	
10 28	65	1644	36	700	36	0.08				2.20	63	1529	39	659		6.80	11.49	1131	
10 29	52	1216	36	710	40	0.00					55	1253	39	729		4.55	43.23	1208	
10 30	41	1029	32	204	33	1.50	T	0			41	1141	35	652		4.34	5.45	1027	
10 31	54	1519	28	522	28	0.12					55	1532	35	701		1.31	29.43	1157	
Average	67		46		48	Total	3.58	0.0			68		49			3.64	33.11		
						Greatest	1.50	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		November 2011		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				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						
11 1	56	1200	28	700	42	0.00			3.61		56	1443	38	701		1.48	34.19	1157		
11 2	59	1600	32	639	32	0.00					60	1532	40	700		1.04	36.76	1230		
11 3	64	1352	32	701	41	0.00					63	1545	40	708		0.57	26.80	1203		
11 4	65	1415	41	715	48	0.00					63	1536	42	705		1.85	31.87	1249		
11 5	59	1236	36	659	36	0.00					59	1301	38	656		8.16	37.42	1232		
11 6	53	1451	29	336	31	0.00					56	1519	38	704		2.73	24.46	1207		
11 7	59	1306	31	703	33	0.00					58	1533	39	714		2.37	27.42	1319		
11 8	70	1512	33	700	34	0.00			2.87		65	1537	40	731		1.40	23.03	1212		
11 9	72	1342	33	657	33	0.00					66	1515	42	718		1.80	22.07	1222		
11 10	64	1306	33	711	49	0.00			3.68		64	1512	41	733		2.30	21.13	1139		
11 11	58	1200	39	624	39	0.11			2.70		58	1236	37	611		4.67	32.40	1211		
11 12	50	1329	28	427	32	0.00			2.61		51	1424	36	658		5.66	29.99	1210		
11 13	64	1422	31	724	37	0.00					58	1520	36	717		6.44	19.72	1150		
11 14	65	1402	37	708	56	0.00					57	1420	40	758		11.81	21.78	1101		
11 15	74	1434	56	712	63	0.00					70	1447	50	700		10.99	14.27	1106		
11 16	67	1102	56	635	56						63	1242	56	652		3.28	5.51	958		
11 17	61	1551	44	646	45						59	1714	48	700		2.16	3.05	1139		
11 18	46	710	31	658	32	0.70					49	700	35	658	three day rain total	5.49	5.95	1407		
11 19	48	1451	28	616	28	0.00					49	1508	35	724		1.79	15.37	1158		
11 20	56	1413	28	701	55	0.00					52	1523	36	727		6.01	16.98	1242		
11 21	69	1440	55	706	56	0.09			2.42		63	1533	46	700		3.02	18.63	1311		
11 22	62	1058	49	632	49	0.16			2.53		63	1156	51	658		1.13	26.02	1021		
11 23	64	232	49	704	61	0.77			3.28		60	355	51	830		4.73	2.42	1325		
11 24	64	953	32	653	32	0.03					61	1036	39	655		7.93	24.00	952		
11 25	61	1450	31	659	31	0.00					56	1518	39	805		2.00	19.13	1152		
11 26	71	1514	31	700	33	0.00					61	1547	39	822		0.66	18.33	1126		
11 27	65	1426	33	709	42	0.00					55	1546	39	726		0.68	24.63	1045		
11 28	72	1427	42	700	53	0.00			2.99		64	1515	42	725		6.37	19.14	1129		
11 29	72	1314	53	700	62	0.06			3.01		66	1502	52	723		4.01	25.34	1156		
11 30	66	1005	38	654	38	0.42			3.33		61	1032	40	657		6.23	7.68	841		
Average	63		37		43	Total	2.34	0.0			60		42			3.96	21.18			
						Greatest	0.77	0.0												

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM		December 2011		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 occurane	
12 1	51	1117	35	630	35		0.00					48	1408	37	659		6.21	26.45	1118	
12 2	52	1437	25	629	25		0.00					51	1510	37	734		3.26	16.43	1143	
12 3	60	1420	25	714	27		0.00					53	1524	37	737		1.30	16.84	1145	
12 4	52	1413	27	704	28		0.00					51	1457	38	730		0.70	18.22	1144	
12 5	59	1411	28	707	37		0.00					54	1534	37	733		1.82	17.46	1231	
12 6	61	1451	37	707	60		0.02					55	700	40	751		2.24	14.98	1448	
12 7	62	2030	58	655	58		1.56					60	2221	55	704		4.41	3.37	1204	
12 8	58	700	33	659	34		2.02					59	708	37	446		7.52	3.49	1137	
12 9	45	1509	26	545	27		0.00					47	1501	37	731		2.79	19.43	1159	
12 10	52	1419	27	725	37		0.00					50	1459	38	953		2.60	20.95	1150	
12 11	46	1151	21	646	21		0.00					48	1425	34	659		2.60	19.75	1154	
12 12	44	1547	20	649	21		0.00					43	1457	34	659		0.74	18.57	1138	
12 13	49	1421	21	714	24		0.00					43	1515	34	736		0.52	24.62	1101	
12 14	51	1342	24	709	33		0.00					47	1524	35	737		1.80	19.19	1205	
12 15	50	1305	33	720	47		0.00					46	1603	36	738		1.04	13.62	927	
12 16	64	1401	46	705	49		0.00					56	1514	40	713		5.48	22.26	1400	
12 17	49	700	36	404	36		0.00					50	702	38	659		4.10	16.70	1155	
12 18	41	1510	27	658	27		0.00					41	1550	34	657		2.91	15.52	1321	
12 19	41	1317	22	549	23		0.00					40	1353	34	657		1.75	25.52	1239	
12 20	52	1436	23	704	50		0.00					45	1620	33	807		3.95	18.65	1159	
12 21	56	1253	42	2123	47		0.00					51	1544	42	702		0.92	18.24	1248	
12 22	63	2117	44	658	44		0.14					58	2209	44	754		7.34	6.49	1058	
12 23	62	1428	42	744	49		0.70					60	1504	49	700		2.35	24.35	1225	
12 24	53	1051	38	2020	39		0.00					54	1436	40	659		3.71	30.48	1105	
12 25	45	1338	25	523	25		0.00					49	1439	36	659		3.43	20.19	1207	
12 26	50	1517	25	708	42		0.00					47	1545	36	744		3.56	24.85	1134	
12 27	50	1255	30	2314	40		0.00					50	1458	37	652		3.59	25.80	1201	
12 28	56	1619	40	710	41		0.56					50	1814	37	839		5.89	4.05	1546	
12 29	47	1139	24	602	25		0.00					48	1401	35	658		5.58	29.13	1145	
12 30	43	1516	25	706	29		0.01	T				40	1515	35	747		0.82	20.79	1127	
12 31	54	1454	29	705	48		0.00					47	1604	35	742		3.75	22.15	1302	
Average	52		31		36	Total	5.01	0.0				50		38			3.18	18.66		
						Greatest	2.02	0.0												

S. No. 18-9070-4