

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		January 2010		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				
1 1	35	1459	31	704	32	0.12					37	1505	32	737	0.62	13.00	1402	
1 2	43	1319	25	654	25	0.00					41	1335	31	621	0.62	44.56	1111	
1 3	29	1326	15	603	15	0.00					40	1425	31	2244	0.62	42.68	1153	
1 4	27	1512	15	739	23	0.00					34	1415	31	2129	0.62	31.50	1228	
1 5	33	1350	23	719	26	0.00					33	1514	31	618	0.62	41.70	1151	
1 6	35	1411	25	744	28	0.00					33	1419	31	2215	5.92	43.52	1239	
1 7	38	1502	27	554	28	0.00					33	1329	31	603	8.29	45.99	1225	
1 8	38	1341	27	748	28	0.07	1.5	1			33	1637	31	704	3.79	32.79	1126	
1 9	30	908	21	145	23	0.00		1			33	1121	31	34	6.24	38.14	1029	
1 10	33	1404	18	636	18	0.00		T			36	1315	31	528	8.10	31.86	1209	
1 11	31	1507	17	728	20	0.00		T			36	1336	31	451	5.91	32.67	1212	
1 12	38	1435	20	716	27	0.00					32	1716	31	849	4.46	37.12	1232	
1 13	34	1435	22	622	25	0.00					32	1451	30	658	6.93	36.34	1335	
1 14	43	1426	19	656	20	0.00					32	1325	30	726	3.25	47.96	1146	
1 15	52	1514	19	703	23	0.00					32	1630	31	811	2.13	31.43	1220	
1 16	59	1215	23	705	27	0.00					40	1349	31	729	3.89	41.72	1217	
1 17	52	1459	26	725	38	0.00					40	1404	31	740	2.29	23.52	1225	
1 18	44	1714	38	710	40	0.67					37	1435	33	704	5.72	8.45	1214	
1 19	55	1445	28	638	29	0.00					49	1615	35	703	4.05	43.78	1235	
1 20	59	1332	28	731	34	0.06					54	1507	36	917	3.58	44.49	1337	
1 21	44	1433	26	649	26	0.00					46	1528	36	658	3.42	34.96	1218	
1 22	43	1434	25	720	35	0.10					48	1507	35	827	5.35	34.85	1127	
1 23	42	1443	25	551	28	0.00					43	1543	34	658	4.24	27.81	1422	
1 24	46	1431	28	702	34	0.00					51	1520	34	752	3.18	36.00	1243	
1 25	60	617	34	701	59	0.20					56	657	36	853	7.96	12.26	1356	
1 26	66	1352	36	658	36	0.14					65	1352	39	640	8.42	49.06	1145	
1 27	46	1151	29	653	29	0.00					46	1414	34	659	7.25	40.17	1132	
1 28	45	1509	27	43	34	0.00					45	1527	34	722	4.25	36.26	1234	
1 29	53	1413	18	656	18	0.00					49	1534	31	644	10.52	51.36	1237	
1 30	26	1502	18	708	20	0.00					39	1556	31	739	7.61	29.64	1222	
1 31	20	856	13	625	13	0.29	5.5	6			32	2132	31	1927	7.04	9.06	1230	
Average	42		24		28	Total	1.65	7.0			41		33		4.74	34.67		
						Greatest	0.67	5.5										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM	February 2010	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					
2 1	32	1610	10	205	20	0.00		5			33	1542	31	813		3.88	35.82	1214	
2 2	38	1624	16	314	19	0.00		4			36	1352	31	602		2.91	39.77	1131	
2 3	39	1356	19	700	30	0.27	4	7			36	1408	31	706		3.31	28.63	1009	
2 4	42	1325	30	653	30	0.00		5			42	1329	31	645		5.20	34.94	1359	
2 5	41	1435	28	47	30	0.00		3			45	1354	31	702		2.71	34.21	1225	
2 6	36	1133	29	242	29	1.41	15	17			36	1301	32	427		6.40	7.57	1228	
2 7	29	855	14	544	14	0.57	6	22			32	1649	31	1648		7.50	8.08	1330	
2 8	31	1547	13	727	17	0.00		21			32	1605	32	2352		5.22	37.26	1249	
2 9	34	1623	14	649	15	0.00		20			32	1303	32	754		4.79	33.88	1227	
2 10	35	1447	12	710	29	0.69	8	27			32	1612	32	813		2.70	24.43	1149	
2 11	30	226	19	1209	28	0.09	1	28			32	2203	32	1856		4.91	7.15	1329	
2 12	39	1611	26	652	26	0.00		26			32	1232	32	639		9.09	33.80	1243	
2 13	39	1332	25	2253	27	0.00		25			32	1259	32	744		4.80	33.89	1233	
2 14	34	1602	24	657	24	0.00		23			32	1508	32	148		7.76	28.57	1253	
2 15	40	1527	11	535	12	0.00		21			32	1427	32	652		5.31	31.97	1240	
2 16	38	1244	11	720	27	0.01	T	20			32	1315	32	750		5.18	29.95	1023	
2 17	37	1355	22	553	23	0.00		19			32	1354	32	641		7.82	39.41	1322	
2 18	36	641	23	703	36	0.00		18			32	1508	32	738		7.90	43.83	1140	
2 19	43	1237	33	527	36	0.00		16			32	1259	32	1938		8.62	40.51	1240	
2 20	45	1509	33	657	33	0.00		15			32	1331	32	613		8.43	27.41	1234	
2 21	45	1443	24	331	31	0.00		13			32	1225	32	618		4.87	34.13	1310	
2 22	51	1337	29	642	30	0.00		11			32	1341	32	737		3.36	28.93	1350	
2 23	43	1024	29	726	36	0.23		8			32	1054	32	2303		5.42	20.41	1014	
2 24	42	1533	35	649	36	0.00		7			32	1510	32	2159		6.95	14.45	1203	
2 25	45	1444	33	637	34	0.04		5			35	1625	32	716		4.07	37.17	1108	
2 26	39	1308	29	323	31	0.00		4			41	1546	31	608		13.34	44.47	1131	
2 27	37	1515	30	613	30	0.00		3			39	1537	31	701		9.73	21.99	1308	
2 28	44	1559	30	705	36		T	T	2		43	1352	32	723		5.89	29.58	1431	
Average	39		23		27	Total	3.31	34.0			34		32			6.00	29.72		
						Greatest	1.41	15.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	March 2010	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			
3 1	45	1607	35	245	36	0.00		1			43	1328	36	717	6.79	42.64	1226
3 2	48	1433	34	656	34	0.00		T			52	1441	36	708	7.48	43.50	1123
3 3	42	1127	34	707	35	0.10		T			44	1445	36	657	5.61	12.04	1130
3 4	40	2145	33	659	34	T		T			40	1614	36	746	8.41	9.71	1324
3 5	46	1344	33	703	35	0.00		T			54	1519	36	706	9.64	32.15	1228
3 6	50	1536	30	647	30	0.00					53	1552	37	658	8.70	42.25	1256
3 7	51	1534	30	700	37	0.00					57	1613	37	704	6.03	29.26	1227
3 8	59	1500	32	605	33	0.00					62	1535	38	724	4.29	29.04	1235
3 9	61	1527	33	700	34	0.00					64	1513	39	703	4.59	29.28	1230
3 10	66	1506	34	701	38	0.00					68	1534	40	718	3.17	29.36	1241
3 11	60	1526	38	700	43	0.00					59	1608	44	724	3.13	30.58	1236
3 12	63	1028	43	700	50	0.65					63	1437	46	715	5.09	35.55	1358
3 13	52	614	47	5	51	1.05					52	1508	48	147	8.64	5.69	1147
3 14	53	1056	48	623	48	0.79					53	1529	49	657	4.56	5.81	1034
3 15	51	1702	44	654	44	0.06					52	1710	46	656	5.73	13.90	1048
3 16	48	1645	43	629	44	0.07					48	1404	43	657	8.83	12.27	854
3 17	62	1448	32	621	34	0.00					66	1601	43	700	4.36	43.73	1038
3 18	68	1537	32	627	34	0.00					72	1614	44	718	2.68	43.53	1227
3 19	70	1456	34	701	43	0.00					73	1550	46	721	2.29	45.88	1157
3 20	72	1551	38	643	39	0.00					74	1553	48	706	3.21	46.36	1159
3 21	75	1446	39	703	45	0.00					76	1533	49	712	4.09	47.91	1235
3 22	77	1258	45	704	58	0.00					72	1501	50	713	6.51	51.12	1111
3 23	63	1340	44	644	44	0.30					62	1738	46	659	6.94	24.95	1330
3 24	55	1338	44	700	50	0.00					57	1401	41	637	8.04	62.40	1301
3 25	67	1558	39	511	42	0.00					71	1525	41	704	5.01	39.51	1259
3 26	73	1440	42	700	47	0.32					67	1537	45	703	8.16	27.69	1454
3 27	49	1544	28	540	31	0.23					53	700	36	634	8.93	16.38	1407
3 28	48	1514	31	700	38	0.00					62	1506	36	700	5.72	44.71	1228
3 29	60	1554	38	700	52	1.19					60	1604	38	714	7.15	53.94	1223
3 30	57	1604	43	654	43	0.05					61	1632	44	658	7.82	32.16	1317
3 31	55	1646	42	701	49	0.01					55	1333	41	619	10.61	58.64	1100
Average	58		38		41	Total	4.82	0.0			60		42		6.20	33.61	
						Greatest	0.00	0.0									

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	April 2010	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			
4 1	70	1637	40	547	44	0.00			1.90		76	1525	41	701	5.17	49.30	1208
4 2	77	1430	44	700	50	0.00			1.72		85	1515	45	701	3.58	53.37	1201
4 3	74	1429	48	557	48	0.00					82	1444	49	700	6.13	50.76	1207
4 4	70	1540	48	701	52	0.00					79	1546	49	700	4.70	55.46	955
4 5	77	1517	49	602	50	0.00			1.22		86	1515	51	700	3.25	51.50	1226
4 6	84	1610	50	700	67	0.00			1.05		89	1440	52	704	3.71	48.96	1138
4 7	91	1614	67	700	70	0.00			0.86	2.19	89	1345	58	629	8.93	36.34	1215
4 8	91	1439	68	603	69	0.00			1.82		87	1337	58	702	9.73	42.83	1217
4 9	83	1512	48	616	49	0.65			2.17		84	1329	50	658	10.26	43.00	1231
4 10	58	1326	35	559	43	0.00					71	1500	39	655	7.78	55.66	1301
4 11	65	1635	40	537	48	0.00					76	1525	39	703	3.91	42.29	1205
4 12	77	1603	48	700	55	0.00			1.61		85	1509	45	700	3.59	34.88	1202
4 13	72	1450	44	242	50	0.00			1.40		85	1453	49	636	3.33	36.45	1131
4 14	53	1109	42	410	44	0.20			1.60		52	1324	44	629	4.01	8.73	659
4 15	61	1420	39	610	44	0.00			1.44		80	1527	44	619	3.43	48.07	1129
4 16	75	1539	44	700	61	0.00			1.27		84	1502	45	700	4.34	35.76	1155
4 17	85	1352	57	626	58	0.01			0.97		85	1502	54	651	8.15	42.97	1323
4 18	64	1249	35	549	39	0.00					78	1355	38	618	8.85	40.45	1254
4 19	58	1458	39	700	46	0.00			0.62	2.06	69	1505	38	704	6.46	54.12	1221
4 20	66	1501	38	554	45	0.00			1.85		78	1534	40	703	4.27	36.47	1130
4 21	70	1314	45	353	50	0.00			1.71		79	1454	45	700	2.87	38.03	1220
4 22	58	1227	47	316	50	0.20			1.90		59	1345	50	701	2.57	16.02	1212
4 23	73	1416	48	556	54	0.00			1.72		84	1418	51	700	3.48	40.59	1243
4 24	72	1431	47	30	54	0.00					83	1507	51	558	4.15	34.21	1223
4 25	64	941	52	59	54	0.13					64	1100	52	700	3.55	39.62	937
4 26	76	1442	51	547	52	0.14			1.65		77	1516	53	703	5.59	53.38	1213
4 27	58	1523	52	711	55	0.32			1.96		62	1551	54	630	3.68	32.84	824
4 28	65	1211	36	244	44	0.00			1.75		77	1213	40	552	5.94	52.64	1239
4 29	59	1547	37	536	48	0.00			1.57		67	1211	39	603	6.37	55.36	1207
4 30	71	1706	42	522	51	0.00			1.35		80	1521	40	702	4.57	36.14	1157
Average	71		46		51	Total	1.65	0.0			78		47		5.21	42.21	
						Greatest	0.65	0.0									

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		May 2010		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					
5 1	84	1545	51	700	66	0.00					89	1458	48	700	5.08	34.83	1212		
5 2	90	1537	66	700	75	0.00					92	1441	58	701	7.27	43.54	1236		
5 3	88	1406	72	646	72	0.25			0.90		94	1415	70	701	9.26	48.42	1136		
5 4	80	1529	66	342	69	0.04			0.86	2.09	83	1538	67	553	4.49	27.12	1358		
5 5	83	1429	51	533	63	0.00			1.82		90	1447	57	604	3.96	48.12	1228		
5 6	84	1444	61	704	70	0.00			1.54		92	1505	58	701	6.50	36.47	1139		
5 7	82	1035	48	524	59	0.00			1.25		91	1341	52	550	5.69	47.22	1205		
5 8	76	1414	59	702	74	0.00					85	1445	53	700	7.44	39.63	1131		
5 9	78	810	46	435	49	0.00					86	1348	45	534	10.01	38.22	1149		
5 10	62	1431	36	521	48	0.00			0.04	2.62	77	1440	39	637	7.03	49.22	1039		
5 11	64	1558	38	330	51	0.00			2.40		79	1521	40	700	4.82	39.31	1214		
5 12	61	654	48	1309	61	0.09					55	1537	47	700	6.82	37.43	823		
5 13	80	1254	50	520	51	0.06			2.37		85	1342	54	700	4.85	38.26	1141		
5 14	61	658	50	701	61	0.00			2.29		68	1542	55	755	5.11	26.17	1407		
5 15	89	1442	61	700	69	0.11					92	1445	59	700	7.21	37.03	1219		
5 16	78	1614	54	26	60	0.00					88	1517	60	611	5.03	44.05	1231		
5 17	73	1506	53	2353	58	0.01			1.74		85	1516	59	620	2.97	52.43	1224		
5 18	61	949	50	126	52	0.71			2.44		65	1452	53	534	4.36	16.59	1324		
5 19	55	1201	49	516	53	0.04			2.44		58	1529	51	539	5.96	10.40	1127		
5 20	67	1427	49	431	60	0.00			2.34		75	1523	52	700	2.70	63.51	1119		
5 21	82	1600	53	520	62	0.00			2.12		93	1538	56	700	2.92	48.63	1250		
5 22	86	1251	61	701	64	0.00					94	1457	61	700	4.29	43.12	1215		
5 23	79	1252	64	701	65	0.72			2.27		88	1512	64	701	6.51	48.02	1145		
5 24	71	1537	64	611	65	0.07			2.22		78	1533	66	621	3.74	39.68	1410		
5 25	78	1510	64	526	65	0.01			2.11		88	1536	66	701	3.44	62.68	1311		
5 26	79	1511	56	457	67	0.01			1.96		91	1535	62	543	2.74	64.60	1129		
5 27	90	1514	66	450	76	0.00			1.76		101	1459	64	700	2.51	41.52	1223		
5 28	92	1408	61	449	65	0.05			1.53		103	1432	63	542	5.49	37.81	1208		
5 29	74	1304	64	712	67	0.08					78	1511	64	701	3.61	37.36	1259		
5 30	80	1539	65	55	73	0.00					87	1606	67	700	3.00	47.20	1414		
5 31	88	1553	65	455	74	0.00			1.17		100	1425	68	534	3.30	38.81	1207		
Average	77		56		63	Total	2.25	0.0			85		57		5.10	41.53			
						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 2010	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					
6 1	92	1438	72	447	74	0.00			0.85	1.51	100	1322	68	516		8.69	39.56	1220	
6 2	87	1247	67	527	74	0.05			1.35		95	1245	69	536		5.14	53.60	1320	
6 3	90	1413	70	501	75	0.00			1.09		99	1444	70	544		4.89	48.76	1254	
6 4	91	1242	67	2239	71	0.51			1.40		99	1240	68	516		3.79	50.19	1200	
6 5	89	1505	71	504	76	0.00					100	1353	69	700		4.28	48.81	1231	
6 6	90	1308	72	403	78	0.06					95	1303	72	517		5.05	55.17	1228	
6 7	89	1131	57	501	65	0.00					92	1235	59	600		6.94	60.16	1115	
6 8	77	1437	54	512	64	0.00					89	1403	55	536		4.75	53.20	1042	
6 9	79	1515	60	2208	65	0.07					92	1422	57	700		4.45	44.65	1249	
6 10	74	659	63	742	74	0.00					72	1734	62	702		4.20	14.58	1704	
6 11	88	1341	62	512	71	0.00					94	1307	61	533		4.00	52.51	1216	
6 12	83	1252	65	427	72	0.00					98	1242	64	700		3.70	50.99	1323	
6 13	91	1443	70	342	75	0.48					102	1419	67	701		5.40	44.48	1108	
6 14	92	1419	72	401	76	0.00			T.L.	1.73	101	1420	71	525	Evap too low to read	4.11	55.81	1214	
6 15	88	1522	68	444	73	0.06			1.65		93	1340	71	525		3.22	54.65	1254	
6 16	81	1116	69	335	71	0.00			1.52		87	1143	69	504		3.79	54.12	1040	
6 17	82	1645	68	458	76	0.03			1.45		83	1645	70	536		4.21	46.48	1249	
6 18	85	1331	57	516	68	0.00			1.12		93	1405	61	544		5.32	50.43	1217	
6 19	85	1440	61	238	71	0.00					98	1349	63	700		3.07	42.06	1141	
6 20	91	1543	71	700	79	0.00					97	1401	66	700		5.71	46.30	1247	
6 21	93	1302	69	513	79	0.00			0.21	1.65	100	1321	69	532		3.68	46.00	1314	
6 22	92	1351	66	322	75	0.00			1.30		101	1424	69	538		2.82	46.21	1107	
6 23	94	1348	69	453	78	0.21			1.12		99	1358	70	536		4.37	45.14	1249	
6 24	95	1607	75	455	82	0.00					100	1341	72	700		3.95	46.49	1246	
6 25	98	1320	72	525	77	0.00					101	1320	69	534		5.64	43.32	1214	
6 26	92	1501	65	241	73	0.00					102	1345	66	521		3.07	50.97	1203	
6 27	93	1433	67	515	78	0.00					97	1308	68	520		2.63	48.74	1149	
6 28	98	1436	78	2326	83	0.00					102	1348	71	700		5.52	45.03	1219	
6 29	95	1257	73	1439	77	0.64			T.L.	2.04	108	1249	72	1437	Evap too low to read	4.93	45.35	1246	
6 30	91	1432	65	613	67	0.00			1.68		96	1502	63	625		6.44	58.47	1012	
Average	89		67		74	Total	2.11	0.0			96		67			4.59	48.07		
						Greatest	0.64	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		July 2010		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				
7 1	79	1738	60	2351	65	0.00			1.45		85	1611	59	555	4.41	60.48	1104	
7 2	80	1616	54	522	67	0.00			1.14	2.19	91	1420	58	541	4.59	42.60	1206	
7 3	82	1537	54	447	66	0.00					93	1541	59	700	3.56	48.23	1133	
7 4	88	1610	59	514	69	0.00					97	1449	61	700	3.34	41.26	1216	
7 5	96	1520	65	500	76	0.00					101	1432	65	700	2.81	41.01	1236	
7 6	98	1607	70	510	81	0.00			0.95	2.13	102	1437	69	701	2.61	43.86	1151	
7 7	102	1603	73	459	82	0.00					103	1435	74	700	2.95	44.02	1149	
7 8	100	1407	75	454	82	0.00			1.50		104	1415	77	700	3.23	39.48	1232	
7 9	92	1249	71	426	77	0.00			1.20	1.9	102	1321	72	545	4.32	43.52	1340	
7 10	92	1355	74	659	74	0.10					101	1402	73	700	4.75	51.13	1152	
7 11	76	1154	67	435	71	0.48					79	1739	70	525	4.85	25.07	1148	
7 12	91	1507	66	454	72	0.00			1.86		100	1455	69	542	2.79	40.64	1242	
7 13	87	1116	71	101	75	0.65			2.35		89	1244	70	702	3.32	46.79	931	
7 14	86	1627	70	1943	73	1.27			3.41		93	1628	73	555	4.22	58.41	1113	
7 15	84	1555	70	515	77	0.00			3.29		87	1628	74	547	4.45	63.32	1338	
7 16	93	1332	72	519	78	0.17			3.22		103	1431	74	700	3.24	55.81	1243	
7 17	95	1433	72	459	77	0.00					101	1350	76	700	4.35	51.34	1312	
7 18	92	1601	71	454	77	0.00					100	1427	73	550	4.54	58.67	1326	
7 19	93	1332	73	203	76	0.37			2.74		100	1333	74	700	4.20	53.96	1112	
7 20	91	1431	70	449	75	0.07			2.54		99	1522	74	609	4.65	55.91	1245	
7 21	91	1519	73	152	77	0.00			2.35		95	1527	75	540	4.62	62.18	1154	
7 22	91	1539	71	513	79	0.10			2.25		99	1507	74	606	3.31	53.96	1137	
7 23	94	1411	72	516	78	0.00			2.00		100	1418	75	700	2.52	46.50	1223	
7 24	96	1509	77	525	83	0.00					103	1410	76	700	5.02	36.15	1207	
7 25	99	1320	78	520	84	0.00					105	1429	76	601	4.92	41.46	1257	
7 26	98	1404	69	518	73	0.87			1.91		103	1409	73	550	4.03	41.28	1310	
7 27	87	1658	64	448	73	0.00			1.67		99	1511	68	557	2.94	43.59	1238	
7 28	87	1243	70	150	76	0.00			1.49		95	1317	70	700	3.41	58.73	1346	
7 29	93	1524	76	701	80	0.00			1.24		101	1445	73	700	4.65	53.29	1140	
7 30	94	1247	65	539	70	0.01			1.09	1.82	99	1243	68	557	3.90	47.28	1236	
7 31	84	1357	62	440	68	0.00					97	1409	66	613	3.19	43.91	1203	
Average	91		69		75	Total	4.09	0.0			98		70		3.86	48.19		
						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 2010		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	87	1407	67	545	72	0.00					95	1448	67	700	4.58	47.03	1333	
8 2	81	1218	68	2315	69	0.07			1.24		90	1243	69	700	3.10	47.59	1243	
8 3	80	1150	69	700	73	0.00			1.12	2.3	86	1632	70	700	4.20	56.53	1148	
8 4	88	1413	73	700	77	0.03			2.18		94	1330	71	700	5.33	49.50	1254	
8 5	93	1551	72	529	76	0.00			1.94		97	1358	73	540	5.86	44.40	1207	
8 6	96	1332	70	535	72	0.29			2.05		100	1339	71	602	4.88	42.95	1038	
8 7	90	1423	62	531	70	0.00					94	1450	67	611	3.73	48.49	1135	
8 8	88	1503	63	549	69	0.00					98	1509	67	615	2.40	35.76	1210	
8 9	90	1517	69	700	74	0.00			1.45		97	1452	67	700	4.07	39.15	1256	
8 10	93	1332	74	315	78	0.00			1.12		99	1418	71	700	4.90	40.15	1320	
8 11	98	1410	74	544	80	0.00			0.91	1.61	105	1426	73	700	2.58	36.35	1148	
8 12	95	1421	72	700	72	0.00			2.77		99	1325	75	701	3.73	40.36	1142	
8 13	86	1410	71	636	71	3.33			4.47	3.25	95	1424	74	601	4.10	47.42	1212	
8 14	79	1154	64	552	68	0.00					82	1407	66	555	4.24	56.01	1154	
8 15	83	1436	68	700	72	0.00					94	1439	67	702	4.07	46.94	1113	
8 16	78	1658	71	537	74	0.15			3.00		80	1723	71	603	4.83	29.32	1519	
8 17	92	1355	72	559	76	0.00			2.81		100	1352	72	700	3.74	45.86	1351	
8 18	93	1531	69	659	69	0.04					101	1534	74	700	3.39	38.66	1055	
8 19	72	700	68	743	72	0.74			3.32		75	1428	72	554	2.91	13.36	1237	
8 20	87	1338	68	552	71	0.00			3.13		98	1517	72	700	2.64	46.93	1140	
8 21	91	1433	69	521	72	0.00					100	1508	73	701	1.96	41.73	1231	
8 22	88	1249	72	700	76	0.00					95	1353	74	701	5.44	37.60	1159	
8 23	88	1340	68	522	71	0.53			3.14		93	1404	73	616	3.61	46.67	1054	
8 24	84	1550	65	548	65	0.38			3.34		92	1310	70	646	4.53	57.58	1250	
8 25	73	1400	61	429	65	0.05			3.30		78	1503	66	551	3.31	38.63	1002	
8 26	82	1558	65	700	69	0.00			3.19		87	1604	67	700	2.81	77.12	1309	
8 27	85	1519	58	559	63	0.00			3.00		94	1525	66	629	2.88	68.02	1158	
8 28	83	1607	62	226	66	0.00					93	1508	66	704	2.11	57.66	1336	
8 29	84	1138	62	542	65	0.00					94	1519	68	624	2.18	62.82	1205	
8 30	92	1441	65	602	69	0.00			2.49		100	1507	68	701	1.80	51.89	1246	
8 31	93	1539	63	538	67	0.00			2.26		99	1512	69	624	2.72	47.67	1213	
Average	87		67		71	Total	5.61	0.0			94		70		3.63	46.46		
						Greatest	3.33	0.0										

S. No. 18-9070-4



RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	September 2010		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	94	1257	67	700	70	0.00			2.07		100	1437	69	700	1.81	38.28	1157	
9 2	95	1454	68	526	72	0.00			1.85		100	1508	70	625	4.47	28.90	1219	
9 3	92	1410	71	424	72	0.00			1.63		98	1445	70	700	4.09	31.52	1138	
9 4	87	1539	69	604	70	0.00					86	1637	64	641	4.17	16.96	1520	
9 5	81	1433	52	618	55	0.00					87	1434	56	629	4.51	35.98	1354	
9 6	80	1619	54	600	57	0.00					88	1505	56	700	2.84	29.73	1211	
9 7	83	1516	57	700	66	0.00			0.92		90	1406	59	701	4.73	35.95	1229	
9 8	90	1516	66	700	73	0.00			0.69	2.56	94	1357	63	700	7.57	31.40	1232	
9 9	92	1452	59	610	63	0.00			2.21		93	1355	59	629	6.25	29.25	1214	
9 10	78	1517	55	554	59	0.00			2.20		85	1526	57	652	6.05	39.67	1228	
9 11	74	1504	51	617	54	0.00					76	1505	56	636	3.23	35.90	1047	
9 12	78	1336	54	700	63	0.04					86	1511	56	700	3.49	33.21	1247	
9 13	66	1143	57	612	59	0.90			2.66		69	1604	63	640	2.34	8.83	1438	
9 14	82	1548	57	516	61	0.00			2.51		87	1551	63	637	3.37	35.01	1347	
9 15	80	1117	53	428	55	0.00					85	1340	59	637	3.43	53.95	1234	
9 16	84	1540	55	700	62	0.00			2.19		89	1541	59	700	2.48	35.30	1149	
9 17	87	1358	62	700	67	0.05			2.12		85	1355	65	701	4.35	52.96	1113	
9 18	80	1400	52	619	54	0.00					87	1406	58	648	4.06	44.47	1304	
9 19	76	1522	53	615	55	0.00					88	1527	58	702	2.47	27.30	1204	
9 20	85	1602	55	700	64	0.00			1.67		90	1523	59	701	2.55	28.34	1005	
9 21	77	1423	47	623	50	0.00			1.48		86	1430	54	651	4.86	25.88	1222	
9 22	78	1353	50	700	66	0.00			1.32		85	1440	54	703	5.00	25.38	1215	
9 23	93	1457	65	555	67	0.00			1.16		94	1512	61	700	4.61	23.88	1200	
9 24	90	1448	67	612	68	0.00			1.01	1.64	96	1451	68	700	3.04	23.42	1155	
9 25	96	1337	68	700	73	0.00					92	1342	66	635	7.38	24.86	1152	
9 26	91	1451	65	700	65	0.00					93	1450	64	658	4.59	26.19	1048	
9 27	71	1542	61	2330	68	0.64			1.76		75	1559	64	747	4.89	33.40	1244	
9 28	77	1206	68	700	72	0.08			1.83		78	1542	65	700	7.09	15.41	1155	
9 29	81	1456	55	542	56	0.00			1.68		84	1458	58	646	5.50	35.50	1304	
9 30	71	652	56	700	71	2.92					68	1601	58	701	3.25	22.25	837	
Average	83		59		64	Total	4.63	0.0			87		61		4.28	30.97		
						Greatest	2.92	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD		7:00 AM		October 2010		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 watts per sq ft	time occurane	
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance					
10 1	77	1513	59	436	60		2.43			O.F.	2.54	77	1542	64	700		9.14	16.83	1311	
10 2	71	1413	46	621	47		0.00					76	1423	51	644		6.59	44.31	1220	
10 3	70	1527	46	349	54		0.00					79	1503	51	700		2.99	31.23	1202	
10 4	62	1038	49	536	50		0.88			3.10		67	1310	52	656		7.79	42.61	1239	
10 5	53	1441	48	2237	49		0.04			3.10		56	1438	49	642		6.26	16.95	1245	
10 6	61	1501	49	701	50		0.00			3.01		66	1512	49	702		4.15	58.86	1214	
10 7	62	1331	49	514	51		0.02			2.95		68	1411	50	648		5.25	48.76	1304	
10 8	74	1352	45	610	46		0.00					75	1526	50	701		4.48	44.33	1055	
10 9	77	1428	46	700	51		0.00					78	1502	51	700		3.11	38.39	1139	
10 10	81	1434	48	640	48		0.00					79	1456	54	701		2.97	39.31	1031	
10 11	78	1518	48	700	57		0.00			2.40		79	1531	55	704		3.69	35.09	1151	
10 12	87	1429	57	639	57		0.00			2.26		85	1458	61	700		2.24	37.83	1237	
10 13	82	1405	49	646	49		0.00			2.14		83	1504	55	700		3.96	30.78	1211	
10 14	69	1531	45	40	55		0.00			2.02		77	1523	53	447		2.64	27.63	1159	
10 15	57	1028	47	647	48		1.17					59	1630	48	657		4.42	7.17	1454	
10 16	64	1420	48	700	50		0.00					67	1425	45	654		6.74	30.28	1235	
10 17	66	1518	41	309	46		0.00					69	1458	45	701		4.55	22.68	1159	
10 18	75	1430	44	648	45		0.00			2.75		72	1529	47	701		4.31	20.54	1141	
10 19	68	1335	45	700	51		0.03			2.66		71	1442	51	728		3.35	21.29	1117	
10 20	62	1459	47	35	48		0.00			2.64		65	1523	51	650		2.18	21.59	1349	
10 21	57	1550	46	2111	50		0.04			2.65		58	1600	49	242		3.23	13.63	1536	
10 22	68	1345	40	28	48		0.00			2.54		67	1504	44	659		5.02	30.40	1151	
10 23	58	1536	36	327	38		0.00					64	1451	41	659		3.78	23.16	1112	
10 24	71	1503	38	700	55		0.00					68	1509	41	708		4.90	24.40	1113	
10 25	76	1343	54	710	61		0.00			2.21		73	1512	53	707		5.52	23.82	1300	
10 26	76	1411	61	700	64		0.00			2.10		74	1522	56	702		10.01	27.43	1302	
10 27	75	1646	64	700	71		0.40			2.50		71	1643	60	704		8.33	17.96	1258	
10 28	76	1114	63	656	63		0.55			2.97		74	1132	64	659		5.84	26.45	1003	
10 29	77	1534	48	642	49		0.00			2.77		76	1432	46	657		7.31	31.30	1313	
10 30	57	1128	33	640	33		0.00					60	1412	39	647		5.95	38.11	1236	
10 31	61	1353	33	700	45		0.00					61	1455	39	701		6.21	28.84	1112	
Average	69		48		51	Total	5.56	0.0				71		50			5.06	29.74		
						Greatest	2.43	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	November 2010	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				INCHES	reading after	maximum	time occurance	minimum	time occurance					
11 1	66	1219	34	441	34	0.00					64	1436	39	657		4.81	28.27	1128	
11 2	53	1425	31	613	32	0.00			2.35		60	1520	38	622		4.27	24.71	1215	
11 3	53	1403	32	700	32	0.00			2.22		59	1504	37	813		2.58	28.85	1115	
11 4	58	1321	32	710	49	0.50					55	1546	38	840		3.60	26.03	1114	
11 5	50	1022	43	437	44	1.02			3.66		52	1417	47	659		5.53	3.27	1013	
11 6	56	1423	34	617	34	0.00					60	1451	42	659		4.35	31.81	1213	
11 7	52	1436	32	648	33	0.00					53	1454	38	659		4.95	29.95	1230	
11 8	51	1336	33	700	39	0.00			0.23		55	1519	38	743		6.10	24.01	1153	
11 9	61	1444	38	709	44	0.00			3.10		58	1456	38	751		7.14	17.74	1141	
11 10	61	1530	41	652	41	0.00			2.99		61	1504	41	730		6.02	16.69	1203	
11 11	62	1416	35	641	35	0.00					64	1502	42	658		4.12	18.89	1157	
11 12	59	1534	28	614	29	0.00			2.75		62	1501	38	658		3.03	17.13	1201	
11 13	63	1458	29	702	30	0.00					60	1511	38	758		2.77	17.25	1203	
11 14	65	1424	30	701	31	0.00					62	1516	38	812		2.12	17.59	1238	
11 15	65	1338	31	700	46	0.00					60	1517	38	832		3.31	20.34	1129	
11 16	58	1313	46	700	48	0.21					59	1438	46	703		2.67	20.27	1208	
11 17	63	112	48	700	55	0.31					59	112	49	744		8.71	6.13	1101	
11 18	62	1328	35	651	35	0.00					63	1429	39	658		6.72	26.21	1125	
11 19	59	1332	34	606	37	0.00			2.73		54	1353	38	659		4.55	22.22	1310	
11 20	53	1302	33	2258	40	0.00					55	1528	38	744		4.25	18.67	1113	
11 21	65	1514	35	700	35	0.00					60	1530	38	714		3.33	16.91	1156	
11 22	55	1358	34	719	47	0.00			2.52		58	1512	40	757		3.30	16.06	1216	
11 23	65	1407	47	805	53	0.00			2.43		63	1514	48	707		5.88	17.23	1207	
11 24	70	1215	41	654	41	T			2.32		65	1445	39	652		6.99	18.73	1208	
11 25	48	1401	38	2026	40	T					54	1420	39	730		4.78	16.37	1125	
11 26	59	501	40	717	58	0.10					53	448	41	745		6.58	9.07	1213	
11 27	59	1016	30	645	31	0.00					55	1053	35	658		6.78	4.28	1248	
11 28	46	1257	29	651	29	0.00					48	1455	34	657		6.65	21.01	1250	
11 29	50	1423	22	659	22	0.00			2.11		52	1513	34	737		2.08	15.51	1209	
11 30	52	1406	22	700	48	0.00					52	1507	34	740		3.38	15.25	1210	
Average	58		35		39	Total	2.14	0.0			58		39			4.71	18.88		
						Greatest	1.02	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD		7:00 AM		December 2010		EASTERN				REMARKS	AVERAGE		
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					
12 1	63	533	48	706	63	0.35					60	658	45	703		11.05	4.90	1238	
12 2	63	726	26	512	28	0.42					61	950	35	659		7.03	11.68	1509	
12 3	41	1302	28	703	31	0.00					44	1528	35	743		3.91	19.43	1259	
12 4	40	1048	28	657	28	0.00					42	1437	33	700		4.89	21.02	1056	
12 5	41	1346	28	709	33	0.00					43	1518	33	743		5.76	22.31	1136	
12 6	38	1324	29	411	31	0.00					41	1354	31	659		9.94	27.24	1138	
12 7	37	1241	26	700	26	0.00					40	1510	31	621		11.19	25.58	1133	
12 8	35	1307	24	442	24	0.00					40	1509	31	631		8.45	21.75	1320	
12 9	35	1414	20	655	21	0.00					40	1456	31	624		5.77	21.61	1308	
12 10	36	1427	19	139	21	0.00					41	1441	31	754		3.17	20.41	1219	
12 11	37	1514	21	732	23	0.00					37	1508	31	726		2.37	10.50	1311	
12 12	53	657	23	714	53	0.00					41	1441	31	720		3.49	18.45	1259	
12 13	54	845	32	700	32	1.15					42	906	36	659		7.11	2.79	1144	
12 14	34	1234	19	208	20	0.00					43	1520	31	627		11.32	28.93	1230	
12 15	26	1308	19	228	21	0.00					38	1419	31	627		9.93	27.28	1156	
12 16	32	1518	16	544	17	0.00					42	1342	31	618		6.50	21.72	1140	
12 17	25	1515	17	700	24	0.11	1.1	1			32	1124	31	720		3.16	4.50	1506	
12 18	38	1333	15	615	15	0.00		1			34	1512	31	658		3.67	26.77	1157	
12 19	36	1203	14	744	28	0.00		T			33	1550	31	807		1.86	18.43	1142	
12 20	35	1416	22	536	23	0.00		T			40	1333	31	647		6.40	18.25	1209	
12 21	35	1449	23	700	27	0.00		T			34	1432	31	711		8.07	26.43	1103	
12 22	39	1237	27	733	32	0.00					42	1249	31	2027		5.12	23.13	1240	
12 23	43	1447	30	504	31	0.00					42	1341	31	641		7.57	23.50	1244	
12 24	41	1438	28	541	30	0.00					45	1251	31	634		11.89	15.33	1127	
12 25	40	1430	29	2231	29	0.00					48	1340	31	709		5.97	15.29	1209	
12 26	34	1314	27	301	29	0.00					41	1342	31	726		3.57	9.82	1134	
12 27	30	1025	25	1806	27	0.05	0.7	1			33	1327	31	656		11.90	3.89	1301	
12 28	34	1530	26	529	27	0.00		T			39	1348	31	749		12.49	15.64	1203	
12 29	43	1538	27	719	27	0.00		T			44	1426	31	709		6.08	20.17	1203	
12 30	47	1452	21	543	21	0.00					47	1432	31	636		2.70	15.19	1125	
12 31	47	1232	21	714	25	0.00					47	1405	31	756		3.50	19.78	1231	
Average	40		24		28	Total	2.08	1.8			42		32			6.64	18.12		
						Greatest	1.15	1.1											

S. No. 18-9070-4