

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		January 2009		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							
1 1	47	952	22	647	22	0.00					44	1338	31	544	11.37	44.58	1248			
1 2	36	1443	20	2213	32	0.00					41	1505	31	724	4.50	34.34	1143			
1 3	46	1520	29	651	30	0.00					39	1501	32	748	5.45	33.61	1356			
1 4	47	1342	22	441	22	0.00					44	1459	33	741	2.58	25.49	1227			
1 5	49	1419	22	700	35	T					43	1428	33	753	0.98	32.77	1129			
1 6	50	1401	33	650	33	0.12					42	1628	36	739	3.15	19.21	1134			
1 7	34	1240	31	1732	33	1.40					39	1349	35	635	1.07	9.08	1236			
1 8	40	2026	33	832	35	0.58					39	1403	35	759	3.59	18.56	1241			
1 9	42	1201	26	635	26	0.00					48	1503	34	658	7.82	33.26	1203			
1 10	39	1436	26	2126	31	0.00					47	1500	34	748	3.35	30.65	1201			
1 11	40	1435	31	752	37	0.24					45	1432	36	851	1.98	35.46	1154			
1 12	40	1152	22	437	24	0.00					46	1359	35	653	5.44	38.91	1159			
1 13	40	1443	24	731	28	0.00					46	1504	35	745	2.07	35.17	1230			
1 14	40	1316	22	700	22	0.00					41	1446	32	659	4.89	17.75	1050			
1 15	30	1320	18	539	24	0.00					44	1428	32	717	3.61	41.14	1253			
1 16	27	1139	10	654	10	0.00					40	1417	31	633	7.48	29.02	1243			
1 17	19	1406	1	635	1	0.00					39	1425	31	641	4.79	27.95	1219			
1 18	31	700	0	729	31	0.00					37	1245	31	841	6.36	39.08	1245			
1 19	36	1511	17	618	19	0.00					33	1521	31	649	2.41	9.76	948			
1 20	35	1325	18	657	18	0.00					34	1619	31	657	3.81	22.61	1129			
1 21	30	1306	17	747	18	0.00					36	1337	31	657	7.65	31.55	1337			
1 22	34	1522	11	637	11	0.00					42	1312	31	648	3.55	29.15	1204			
1 23	45	1504	11	700	19	0.00					44	1310	31	824	2.43	27.06	1220			
1 24	56	1451	18	722	42	0.00					48	1313	31	701	3.65	26.68	1228			
1 25	42	702	14	653	14	0.00					45	1434	31	646	8.47	29.65	1316			
1 26	35	1420	13	720	24	0.00					47	1348	31	818	1.82	29.19	1326			
1 27	32	1312	24	735	28	T	0.1	2			38	1523	32	628	0.82	36.71	1310			
1 28	30	646	27	823	30	0.56	1.8	1			34	1520	32	1016	Snow & Rain	0.93	5.87	1326		
1 29	42	2001	25	650	25	0.13		T			34	1448	31	646	Ice	3.78	9.71	1207		
1 30	43	1504	18	655	18	0.00		0			45	1515	31	736		2.11	29.42	1203		
1 31	42	1345	17	726	22	0.00					45	1404	32	701		4.45	39.18	1235		
Average	39		20		25	Total	3.03	1.9			42		32			4.08	28.15			
						Greatest	1.40	1.8												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM		February 2009		EASTERN						
DATE	TEMPERATURE F						RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE			
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance		WIND SPEED MPH	watts per sq ft	time occurance	
2 1	36	1616	20	2325	35		0.00					44	1422	32	802		4.38	31.28	1220	
2 2	62	1509	32	700	32		0.00					49	1508	32	712		8.39	28.67	1217	
2 3	57	1401	32	700	32		0.07	0.3	T			51	1354	36	637		6.33	28.16	1312	
2 4	41	1522	26	248	26		0.02	0.2	T			45	1607	34	700		3.76	34.47	1409	
2 5	35	1448	14	655	14		0.01	T	0			46	1453	31	658		8.22	42.33	1202	
2 6	25	1543	11	310	19		0.00					44	1521	31	704		4.48	32.59	1223	
2 7	45	1501	19	700	25		0.00					44	1519	32	732		1.65	30.81	1237	
2 8	63	1455	25	700	46		0.00					50	1517	33	741		4.56	29.62	1219	
2 9	68	1255	25	700	25		0.00					62	1557	39	653		4.95	39.12	1148	
2 10	54	1410	25	724	38		0.00					57	1536	38	849		2.07	35.16	1243	
2 11	63	1439	38	707	50		0.00					57	1614	39	715		2.29	26.36	1434	
2 12	72	1410	50	714	56		0.00					66	1523	49	659		12.27	35.82	1316	
2 13	58	1131	42	651	42		0.00					61	1403	38	659		11.90	33.39	1219	
2 14	51	1356	24	700	24		0.00					57	1516	36	659		4.88	33.86	1245	
2 15	48	1215	24	715	30		0.00					50	1534	36	718		3.63	51.78	1150	
2 16	44	1541	30	725	31		0.00					53	1536	36	720		4.08	34.73	1248	
2 17	41	1245	24	113	25		0.00					47	1507	33	657		5.05	46.54	1307	
2 18	45	1539	25	706	33		0.00					50	1557	33	718		2.73	35.61	1214	
2 19	48	2305	33	1012	40		0.14	0.1	0			42	418	34	803		7.17	7.55	1242	
2 20	50	1138	22	557	23		0.00					52	1525	31	646		9.93	46.40	1152	
2 21	38	1440	22	708	25		0.00					44	1430	31	720		6.98	41.35	1159	
2 22	47	1410	25	722	39		0.00					48	1427	32	721		5.54	36.61	1213	
2 23	41	1431	27	627	28		0.04					46	1602	32	657		7.64	40.30	1408	
2 24	37	1327	21	632	21		0.00					44	1442	31	629		9.94	43.17	1307	
2 25	40	1559	16	622	16		0.00					46	1536	31	740		3.54	39.66	1224	
2 26	50	1335	16	702	36		0.00					49	1619	33	720		3.63	36.88	1231	
2 27	58	1356	36	700	51		0.00					56	1557	35	726		2.90	47.48	1228	
2 28	66	1231	38	651	38		0.00					62	1404	42	700		12.03	42.73	1230	
Average	50		26		32	Total	0.28	0.6				51		35			5.89	36.16		
						Greatest	0.14	0.3												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM		March 2009		EASTERN						
DATE	TEMPERATURE F						RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE			
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance		WIND SPEED MPH	watts per sq ft	time occurance	
3 1	41	1347	31	649	31		0.00					44	1439	34	659		7.27	13.93	1139	
3 2	35	1615	21	531	21							40	1254	32	658		2.36	15.62	1211	
3 3	25	1647	12	643	12		0.55	6	6			36	1558	31	620	2 Day Precip Toatal	5.67	35.40	1051	
3 4	29	1652	9	621	10		0.00		6			38	1507	31	702		4.60	42.15	1228	
3 5	39	1605	10	712	16		0.00		4			41	1509	31	742		2.01	41.81	1218	
3 6	49	1416	16	700	43		0.00		T			45	1506	32	713		3.73	39.67	1229	
3 7	65	1534	43	645	43		0.00		0			57	1727	36	700		5.31	47.27	1316	
3 8	73	1623	42	715	61		0.00					68	1627	47	712		5.99	32.35	1026	
3 9	78	1316	47	642	48		0.00					72	1444	54	700		4.64	33.26	1203	
3 10	67	930	32	602	33		0.00					71	1451	39	653		7.55	38.71	1228	
3 11	48	1503	33	701	46		0.00					49	1609	39	836		4.74	29.79	900	
3 12	73	1303	37	653	37		0.00					68	1534	36	657		9.70	48.24	1231	
3 13	50	1426	36	726	37		0.00	T				62	1438	37	700		3.12	51.52	1303	
3 14	39	1415	33	610	33		0.00					42	1526	38	653		1.27	14.72	906	
3 15	45	1026	33	700	39		0.04					50	1424	38	704		1.05	34.83	1023	
3 16	43	1451	39	700	41		0.16					45	1639	40	718		0.60	7.56	1332	
3 17	49	1308	40	132	40		0.17					50	1554	41	657		1.53	12.21	1138	
3 18	53	1439	31	548	35		0.00					56	1438	39	556		0.91	61.69	1230	
3 19	64	1439	35	700	52		0.00					70	1529	38	806		5.76	44.41	1232	
3 20	58	931	38	651	38		0.04					56	1021	39	622		3.92	35.61	905	
3 21	50	1211	22	629	25		0.00					58	1327	35	637		5.29	62.60	1208	
3 22	52	1441	25	705	29		0.00					62	1446	35	703		1.71	48.43	1147	
3 23	62	1528	29	700	34		0.00					70	1529	37	703		4.67	42.39	1224	
3 24	53	1558	26	624	28		0.00					64	1520	34	644		5.38	46.30	1214	
3 25	51	1620	22	537	26		0.00					64	1556	35	701		2.36	48.32	1237	
3 26	53	1226	26	700	41		T					59	1355	36	700		4.78	56.54	1133	
3 27	50	2012	41	710	45		0.33					49	1723	41	700		1.19	12.38	1130	
3 28	62	1424	45	700	47		0.50					70	1432	47	704		2.57	45.71	1051	
3 29	52	1631	47	702	48		0.06					54	1640	48	711		2.17	7.16	1140	
3 30	77	1533	45	658	46		0.00					74	1532	43	658		9.39	64.76	1133	
3 31	57	1439	37	544	39		0.00					66	1540	38	647		7.19	57.27	1101	
Average	53		32		36	Total	1.85	6.0				57		38			4.14	37.83		
						Greatest	0.55	6.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM April 2009		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 INCHES	reading after	WATER TEMP F				watts per sq ft	time occurane		
	maximum	time occurance	minimum	time occurance	present						maximum			time occurance			minimum	time occurance
4 1	59	1347	39	700	46	0.00			2.05		73	1453	38	720	4.59	45.63	1128	
4 2	62	1509	46	700	52	0.01			2.03		59	1725	45	703	2.46	24.06	1331	
4 3	60	1648	52	802	58	0.50			2.50		61	1640	53	723	3.88	18.97	1326	
4 4	74	1457	46	552	48	0.47			2.85		75	1359	43	648	11.46	61.92	1052	
4 5	66	1500	39	617	43	0.00					71	1511	42	629	7.05	47.30	1219	
4 6	70	1449	43	700	62	0.00			2.30		77	1505	42	700	4.37	48.28	1200	
4 7	65	1425	37	553	39	0.19			2.31		68	1425	38	646	7.44	64.43	1300	
4 8	50	1443	37	555	38	0.00			2.15		58	1549	37	550	7.95	67.18	1232	
4 9	55	1537	32	352	38	0.00			2.00		60	1452	38	707	6.11	64.06	1209	
4 10	65	1544	38	700	44	0.00			1.84		73	1434	38	703	2.81	58.79	1313	
4 11	75	1526	44	700	51	0.10					76	1521	45	711	5.20	46.52	1321	
4 12	54	1654	35	600	39	0.30					56	1713	38	642	6.67	34.47	1547	
4 13	55	1553	30	532	33	0.00			1.85		69	1452	38	738	5.01	52.62	1137	
4 14	57	1455	33	700	45	0.66			2.41		67	1506	39	751	2.41	56.89	1502	
4 15	50	1524	45	711	47	0.15			2.56		52	1619	46	753	5.96	11.87	1134	
4 16	49	943	38	555	42	0.70			3.27		49	1123	39	648	4.40	12.54	700	
4 17	63	1519	34	547	40	0.00			3.09		77	1547	39	700	2.83	52.92	1215	
4 18	73	1544	39	558	52	0.00					80	1505	45	702	2.23	55.11	1214	
4 19	78	1557	49	404	55	0.00					84	1501	49	701	2.52	58.64	1221	
4 20	74	1025	48	138	49	0.16			2.68		69	1406	49	518	6.14	66.44	1040	
4 21	58	1757	48	456	50	0.71			3.38		57	1853	49	713	4.01	14.24	700	
4 22	70	1548	42	358	46	0.51					79	1449	51	631	2.96	88.74	1235	
4 23	57	1617	45	1128	49	0.12					62	1617	44	554	5.27	84.56	1206	
4 24	63	1509	35	534	46	0.00			3.49		73	1521	44	701	4.33	82.42	1250	
4 25	77	1504	46	700	59	0.00					82	1521	45	700	3.56	72.94	1049	
4 26	90	1435	59	701	69	0.39			3.38		92	1431	57	701	3.34	75.27	1335	
4 27	93	1509	64	233	71	0.00			3.10		96	1511	63	611	2.48	66.62	1216	
4 28	92	1442	68	537	71	0.00			2.70		91	1442	60	605	8.59	69.60	1236	
4 29	87	1426	61	658	61	0.00					88	1437	60	647	7.60	71.27	1317	
4 30	61	701	48	2341	51	0.10			2.41		65	1436	52	533	3.04	38.91	1252	
Average	67		44		50	Total	5.07	0.0			71		45		4.89	53.77		
						Greatest	0.71	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM May 2009		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				
5 1	64	700	51	714	64	0.00					70	1535	52	702	5.29	74.52	1032	
5 2	78	1629	64	701	64	0.01					77	1631	59	700	8.12	58.46	1522	
5 3	68	1449	58	644	59	T					74	1529	61	652	1.60	62.67	958	
5 4	59	819	53	500	53	1.23			3.44		62	1602	55	649	2.00	12.89	1452	
5 5	56	1537	51	329	52	0.17			3.63		57	1718	53	618	4.09	12.52	1534	
5 6	60	1324	52	707	56	0.41			4.01		64	1404	53	700	1.28	36.69	1322	
5 7	67	651	56	701	67	0.69			4.61	3.54	70	1431	57	702	5.32	50.67	1301	
5 8	73	1213	54	536	60	0.16			3.64		77	1355	61	604	3.06	94.96	1155	
5 9	79	1413	60	706	69	0.00					90	1421	61	701	4.78	83.91	1241	
5 10	86	1645	57	539	61	0.00					89	1440	56	611	8.27	91.25	1200	
5 11	75	1603	53	700	53	T			2.82		84	1512	54	653	5.88	69.78	1207	
5 12	63	1539	47	433	53	0.29			3.01		69	1537	51	611	3.54	73.87	1212	
5 13	68	1615	40	455	53	0.00			2.82		78	1400	50	602	3.09	86.42	1255	
5 14	73	1438	53	704	62	0.00			2.58		84	1453	51	701	6.26	81.03	1126	
5 15	77	1536	62	702	66	1.14			3.56		77	1556	57	700	6.15	96.08	1210	
5 16	79	1617	62	323	67	0.00					89	1621	66	700	1.98	80.00	1256	
5 17	83	1535	58	617	58	0.42					84	1555	64	659	4.38	90.41	1214	
5 18	62	937	49	557	50	0.00			3.53		70	1311	50	633	5.99	81.40	1157	
5 19	62	1608	38	510	50	0.00			3.34		77	1555	49	555	4.57	79.26	1208	
5 20	68	1430	41	508	52	0.00			3.12		84	1510	50	700	1.96	72.66	1220	
5 21	77	1533	43	522	55	0.00			2.87		88	1501	53	557	2.42	71.73	1211	
5 22	80	1515	55	700	64	0.00			2.63		89	1446	54	700	3.10	72.85	1207	
5 23	84	1642	62	457	69	0.00			2.41		91	1527	60	702	3.33	93.29	1122	
5 24	86	1403	67	138	69	0.00					93	1415	66	539	5.71	81.96	1304	
5 25	82	1339	66	514	70	0.00					87	1407	67	700	4.14	64.01	1353	
5 26	85	1212	62	659	62	1.28			3.16		91	1244	68	701	1.85	76.01	1203	
5 27	62	700	57	317	57	0.06			3.17		68	701	58	550	4.10	12.30	1254	
5 28	74	1636	57	700	65	0.00			3.11		80	1705	59	700	0.85	70.99	1440	
5 29	80	1442	65	705	69	0.07			3.01		90	1449	67	700	3.75	89.95	1211	
5 30	85	1411	55	451	65	0.38					92	1507	61	543	1.98	91.71	1241	
5 31	81	1519	58	556	59	0.26					91	1523	63	701	2.72	83.07	1040	
Average	73		55		60	Total	6.57	0.0			80		58		3.92	70.88		
						Greatest	1.28	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM		June 2009		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						
6 1	82	1542	48	524	59	0.00			2.93		93	1457	55	553	3.95	75.08	1241		
6 2	76	1543	59	701	67	0.00			2.71		88	1434	56	702	3.22	76.29	1157		
6 3	90	1615	65	512	68	0.34			2.82		95	1555	63	700	3.42	66.62	1040		
6 4	83	1245	58	625	59	0.71			3.31		96	1526	65	655	3.10	63.90	1234		
6 5	63	1439	59	704	60	0.71			3.98		67	1435	61	618	2.21	23.51	1226		
6 6	63	651	58	414	62	0.25					66	1418	61	531	3.89	24.39	655		
6 7	75	1520	59	456	66	0.00					83	1641	62	701	1.41	92.83	1105		
6 8	82	1446	64	504	69	0.13					93	1450	65	700	3.25	77.77	1054		
6 9	88	1426	67	657	67	1.10					97	1432	68	701	2.11	64.17	1228		
6 10	88	1446	60	451	66	0.41					94	1453	64	530	3.40	61.11	1116		
6 11	81	1344	66	700	68	0.00					89	1527	65	700	1.43	51.01	955		
6 12	80	1609	68	705	72	0.04			4.80	2.96	85	1613	71	702	2.25	74.06	1134		
6 13	86	1548	68	431	71	0.00					98	1529	72	553	2.22	75.45	1147		
6 14	85	1601	65	200	68	0.48					93	1624	70	552	1.49	70.34	1253		
6 15	81	1556	62	223	68	0.00			2.76		96	1525	67	512	2.87	56.81	1041		
6 16	83	1402	68	314	71	0.00			2.52		96	1441	68	700	3.60	64.46	1247		
6 17	75	1344	61	312	62	0.00			2.35		85	1416	62	623	4.39	58.55	1116		
6 18	68	700	62	700	68	0.29			2.63		71	1419	63	704	6.88	23.31	1132		
6 19	79	1652	60	451	67	0.40			2.94		84	1718	66	705	2.56	76.94	1204		
6 20	84	1500	67	701	71	0.00			2.73		94	1514	67	700	2.77	71.83	1310		
6 21	87	1524	71	701	73	0.35					89	1526	69	546	3.52	68.48	1252		
6 22	78	1730	67	506	72	0.01			2.71		84	1441	65	534	6.86	77.59	1333		
6 23	85	1455	65	505	69	0.00			2.47		93	1450	66	700	4.60	65.97	1120		
6 24	84	1531	64	452	71	0.00					93	1443	67	542	2.97	63.42	1149		
6 25	85	1458	65	514	74	0.00					96	1500	68	702	3.18	61.61	1216		
6 26	92	1610	68	515	73	0.38					99	1606	71	701	1.24	52.87	1305		
6 27	90	1521	68	454	73	0.00					100	1510	69	550	1.80	54.14	1314		
6 28	83	1336	63	502	72	0.00					95	1404	67	549	3.68	73.13	1133		
6 29	78	1301	64	146	71	0.00					80	1321	65	553	0.98	41.67	1302		
6 30	86	1448	61	403	70	0.00			1.34		95	1418	64	556	2.34	58.51	1403		
Average	81		63		68	Total	5.60	0.0			90		65		3.05	62.19			
						Greatest	1.10	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM July 2009		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	86	1156	64	408	69	0.05			1.21	1.92	92	1209	65	701	2.51	72.85	1234	
7 2	85	1407	64	517	68	0.20			1.92		98	1449	67	556	1.32	63.21	1143	
7 3	82	1405	61	443	67	0.00					92	1406	62	532	2.70	75.54	1150	
7 4	79	1630	61	458	69	0.00					87	1250	62	602	2.86	69.32	1144	
7 5	85	1434	66	655	66	0.00					94	1436	63	701	2.84	60.85	1104	
7 6	75	930	60	515	68	0.00			1.11		83	1347	63	610	1.41	76.94	1241	
7 7	85	1530	63	532	71	0.00			0.84	1.57	99	1458	64	700	0.66	49.85	1216	
7 8	88	1356	60	520	69	0.00					94	1536	64	605	0.62	61.49	1144	
7 9	81	1443	57	423	66	0.00			1.06		96	1448	61	524	0.54	52.76	1313	
7 10	81	1445	59	454	68	0.00			0.82	2.26	97	1404	62	553	0.58	57.51	1255	
7 11	80	1437	63	228	67	0.00					95	1436	63	700	0.55	65.51	1233	
7 12	82	1621	67	700	76	0.00					88	1353	66	700	0.58	49.26	1209	
7 13	89	1506	64	456	72	0.00			1.54		96	1408	67	602	0.58	59.86	1158	
7 14	87	1303	59	541	67	0.00			1.30		96	1312	62	603	0.56	62.43	1212	
7 15	85	1430	58	529	67	0.00			1.02	2.36	96	1505	62	549	0.54	52.98	1312	
7 16	87	1416	67	700	75	0.00			2.03		92	1435	63	700	0.54	50.93	1238	
7 17	94	1542	69	444	75	0.00			1.77	3.22	98	1432	68	701	0.53	59.59	1224	
7 18	83	831	66	238	70	0.01					84	1349	68	630	0.55	34.62	829	
7 19	83	1631	56	454	66	0.00					92	1407	63	608	0.54	70.15	1126	
7 20	83	1335	61	211	68	0.00			2.62		91	1351	64	701	0.52	65.00	1226	
7 21	81	1231	67	505	70	0.00			2.48		85	1500	68	704	0.53	56.63	1228	
7 22	84	1343	65	525	72	T			2.31		93	1506	70	716	0.56	60.04	1244	
7 23	87	1524	69	342	72	0.03			2.13		94	1533	70	519	0.56	55.15	1110	
7 24	83	1408	65	525	67	1.54			3.44		93	1429	68	555	0.57	63.45	1343	
7 25	86	1457	65	511	70	0.00					96	1502	69	700	0.55	72.01	1209	
7 26	88	1347	67	426	71	0.38					95	1341	70	511	0.64	59.30	1355	
7 27	89	1426	71	533	71	0.02			3.10		95	1411	71	701	0.58	75.54	1115	
7 28	88	1521	69	515	73	0.00			2.88		97	1546	72	701	0.70	63.20	1151	
7 29	89	1417	72	352	74	0.00			2.64		100	1421	73	701	2.52	61.02	1232	
7 30	84	1543	70	538	73	0.08			2.58		88	1541	71	559	4.96	49.28	1208	
7 31	87	1332	73	701	76	0.00			2.37		97	1343	72	701	4.26	62.40	1155	
Average	85		64		70	Total	2.31	0.0			93		66		1.22	60.92		
						Greatest	1.54	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM		August 2009		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					
8 1	88	1223	65	542	71	0.21					93	1222	68	603	4.29	61.28	1311	
8 2	85	1409	69	436	74	0.22					96	1438	69	700	4.27	65.42	1301	
8 3	82	1607	67	542	71	0.43			2.73		89	1627	71	601	2.52	70.90	1329	
8 4	87	1546	66	540	71	0.00			2.53		97	1552	71	616	1.47	70.43	1231	
8 5	89	1503	68	330	72	0.00			2.31		97	1402	71	631	2.48	60.93	1050	
8 6	88	1607	71	625	72	0.20			2.28		96	1458	71	701	2.79	61.18	1219	
8 7	76	1555	58	534	66	0.03			2.22		86	1601	64	559	2.67	57.99	1410	
8 8	84	1525	62	155	68	0.00					96	1537	65	700	2.63	52.17	1039	
8 9	86	1437	68	700	74	0.00					97	1454	68	703	2.38	51.10	1323	
8 10	95	1606	70	453	76	0.00			1.56		100	1445	72	612	2.40	55.14	1111	
8 11	96	1522	71	449	75	0.54			1.89		100	1408	72	600	3.16	49.62	1238	
8 12	92	1401	71	536	73	0.03			1.69		102	1459	73	700	2.71	59.78	1320	
8 13	87	1545	69	307	70	0.12			1.56		94	1513	72	613	3.36	55.01	1152	
8 14	85	1412	67	526	73	0.00					94	1414	70	614	3.10	70.15	1122	
8 15	85	1344	67	550	71	0.00					99	1440	70	611	2.66	56.45	1224	
8 16	87	1451	63	526	69	0.00					99	1455	67	611	2.32	54.95	1211	
8 17	90	1349	66	538	71	0.00			0.86	1.96	101	1435	67	700	2.59	44.66	1244	
8 18	91	1533	70	547	74	0.00			1.76		95	1447	69	701	3.73	49.18	1005	
8 19	93	1242	72	556	76	0.41			1.98		101	1415	71	700	2.58	54.38	1112	
8 20	86	1037	71	448	74	0.73			2.56		93	1424	73	551	1.41	68.48	1237	
8 21	91	1432	74	700	78	0.00			2.30		98	1506	74	701	5.42	65.14	1221	
8 22	91	1313	69	504	71	0.80					97	1312	72	615	4.80	58.89	1149	
8 23	84	1304	68	522	69	2.45					91	1354	71	627	2.47	72.38	1103	
8 24	86	1313	66	319	68	0.00			5.00		94	1530	71	700	2.20	64.71	1250	
8 25	86	1424	63	549	67	0.01					95	1536	71	624	2.89	65.42	1005	
8 26	86	1308	67	446	71	0.00			4.54		93	1349	71	702	2.75	54.02	1221	
8 27	90	1323	68	607	70	0.00			4.32		96	1452	71	700	2.86	44.89	1247	
8 28	88	1350	70	700	73	0.00			4.11	2.71	98	1510	74	701	3.30	50.31	1128	
8 29	77	1518	67	1248	72	1.16					81	1557	72	513	1.93	44.85	1342	
8 30	87	1515	70	629	70	0.35					95	1525	72	700	2.14	67.55	1147	
8 31	85	1538	62	658	62	0.05			3.84		94	1457	66	659	3.52	69.04	1108	
Average	87		68		71	Total	7.74	0.0			95		70		2.89	58.92		
						Greatest	2.45	0.0										

S. No. 18-9070-4



RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM		September 2009		EASTERN										
DATE	TEMPERATURE F						RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE		SOLAR RADIATION	
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance		WIND SPEED MPH	watts per sq ft	time occurance	
9 1	75	1506	52	436	57		0.00			3.70		83	1535	59	636		3.48	63.22	1239	
9 2	74	1505	52	500	57		0.00			3.51		86	1526	59	702		3.40	54.59	1211	
9 3	76	1409	57	402	59		0.00			3.35		86	1525	60	701		2.81	54.58	1148	
9 4	77	1557	58	22	62		0.00			3.18		90	1544	62	710		2.96	43.69	1116	
9 5	83	1514	58	618	61		0.00					93	1513	65	700		2.22	50.22	1241	
9 6	87	1322	59	554	62		0.00					92	1417	65	638		2.02	48.55	1328	
9 7	83	1455	62	700	66		0.67					93	1456	65	700		3.53	41.63	1210	
9 8	76	1247	64	619	65		0.35			3.61		80	1335	68	658		4.00	63.11	1244	
9 9	71	1701	62	929	65		0.08			3.65		73	1659	66	647		2.36	16.04	1143	
9 10	77	1326	63	423	64		0.00			3.51		83	1450	64	642		4.49	70.43	1207	
9 11	71	1327	57	622	58		1.34			4.67	2.72	77	1338	59	647		7.44	68.39	1139	
9 12	65	1353	58	701	62		0.01					70	1605	59	700		2.87	50.54	1351	
9 13	69	1335	61	621	63		0.00					72	1504	61	701		0.63	34.41	1023	
9 14	81	1435	58	606	61		0.00			2.50		88	1514	62	629		1.81	59.98	1054	
9 15	82	1411	60	618	62		0.00			2.35		90	1451	62	702		1.58	47.41	1054	
9 16	84	1531	62	701	66		0.11			2.30		89	1544	65	701		2.25	50.99	1151	
9 17	73	1317	63	623	63		0.00			2.18		83	1419	64	657		4.10	52.41	1210	
9 18	65	1356	61	242	63		0.02			2.17		68	1631	62	629		1.50	13.50	1606	
9 19	79	1526	59	627	60		0.00					81	1530	62	658		2.12	44.48	1319	
9 20	74	1520	47	607	50		0.00					88	1450	54	636		1.94	38.32	1152	
9 21	74	1327	48	524	51		0.00			1.78		85	1430	54	701		1.39	40.43	1221	
9 22	79	1447	51	700	61		0.00					85	1525	55	704		1.88	49.18	1114	
9 23	80	1111	61	701	69		0.00			1.60		83	1358	62	700		1.56	49.87	1105	
9 24	86	1411	69	700	72		0.05			1.45		92	1422	69	705		2.41	53.44	1159	
9 25	86	1324	62	700	62		0.00			1.38		91	1402	67	659		2.66	42.86	1036	
9 26	72	1411	54	515	56		0.00					78	1411	57	639		2.30	38.48	1405	
9 27	66	1249	56	700	64		1.80					67	1449	57	701		1.90	24.84	805	
9 28	77	1403	53	501	55		0.01			3.01		81	1441	57	636		0.98	55.88	1140	
9 29	80	1328	47	415	52		0.00			2.84		80	1341	52	644		1.97	44.41	1326	
9 30	70	1315	52	700	56		0.00			2.65		75	1501	52	701		0.69	45.77	1216	
Average	76		58		61	Total	4.44	0.0				83		61			2.51	47.06		
						Greatest	1.80	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	October 2009	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	67	1150	45	404	46		0.03			2.58		71	1334	49	643		0.53	48.02	1214
10 2	68	1350	46	701	53		0.00			2.48		74	1527	49	701		0.52	52.62	1156
10 3	72	1329	53	700	63		0.01					71	1405	54	703		0.53	38.28	1019
10 4	78	1336	48	615	50		0.00					84	1451	55	658		0.52	41.54	1301
10 5	72	1340	46	641	48		0.00			2.15		78	1441	52	648		0.60	34.03	1202
10 6	70	1439	45	356	47		0.00			2.02		77	1449	50	647		0.60	33.43	1203
10 7	72	1330	47	702	64		0.00					74	1424	51	702		0.56	45.91	1119
10 8	74	1129	45	633	47		0.00			1.72		77	1356	47	641		1.09	33.37	1211
10 9	71	1440	47	700	59		0.00			1.59		76	1507	47	700		0.53	35.75	1125
10 10	86	1446	59	700	69		0.00					83	1443	56	702		0.57	36.23	1143
10 11	71	757	41	627	42		0.04					69	806	46	645		0.61	25.43	1251
10 12	68	1501	42	704	47		0.00			1.29		75	1458	46	701		0.53	35.87	1204
10 13	55	1546	46	644	48		0.00			1.25		57	1604	47	716		0.52	13.45	1214
10 14	71	1346	41	640	41		0.00			1.12		72	1444	43	652		0.71	37.79	1204
10 15	51	1044	41	700	46		0.30			1.55		52	1241	43	703		0.52	26.74	916
10 16	48	1504	40	620	41		0.67					50	1631	45	656		0.53	5.27	1036
10 17	43	1319	40	702	42		0.92					49	1457	44	656		0.52	10.14	1102
10 18	45	1239	37	308	39		1.66					48	1547	42	659		0.87	7.68	1220
10 19	51	1524	35	655	36		0.00			4.60		52	1612	42	721		0.52	21.00	1215
10 20	59	1342	34	529	35		0.00			4.49	2.88	65	1539	43	701		0.52	35.19	1152
10 21	71	1355	35	700	41		0.00			2.79		70	1459	45	700		0.52	34.37	1202
10 22	78	1403	41	700	50		0.00			2.69		75	1518	48	715		0.52	32.38	1159
10 23	75	1446	50	702	50		0.00			2.61		71	1523	52	720		0.52	43.51	1239
10 24	69	513	50	701	68		0.02					64	645	54	723		0.71	44.06	1156
10 25	75	1328	48	658	48		0.90					72	1344	50	700		2.82	31.13	1130
10 26	62	1350	40	153	41		0.00			3.28		66	1411	46	656		0.75	43.61	1139
10 27	64	1205	41	702	52		0.75					66	1534	46	718		0.62	34.56	1031
10 28	59	658	52	701	59		1.88			5.79	2.57	58	1621	54	721		0.53	17.12	940
10 29	71	1434	52	115	56		0.00			2.49		73	1438	55	657		0.65	45.17	1048
10 30	57	1120	52	634	52		0.00			2.46		60	1505	53	659		0.52	9.65	1000
10 31	59	659	52	700	59		0.00					59	1451	53	751		0.55	13.12	1126
Average	66		45		50	Total	7.18	0.0				67		49			0.66	31.17	
						Greatest	1.88	0.0											

S. No. 18-9070-4



