

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		January 2012		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	62	1229	32	700	32	0.00					56	1443	39	659	3.22	25.00	1304	
1 2	60	1318	31	744	36	T					54	1546	39	700	7.85	20.73	1153	
1 3	42	1408	27	541	27	T					42	1418	33	659	5.02	26.02	1208	
1 4	32	1008	14	552	14	T					39	1435	31	641	8.67	24.13	1253	
1 5	32	2343	14	723	31	0.00					36	1421	31	702	2.30	17.46	1217	
1 6	48	1512	26	230	36	0.00					40	1500	32	704	1.91	21.25	1211	
1 7	64	1420	34	700	34	0.00					44	1741	33	711	3.72	16.85	1028	
1 8	68	1353	33	752	35	0.00					56	1552	38	905	3.98	17.32	1213	
1 9	51	1355	27	446	30	0.00					52	1435	36	656	2.17	10.60	1255	
1 10	39	928	29	709	31	0.16	1.4	1			40	1354	34	658	0.95	6.79	926	
1 11	55	1441	25	647	25	0.01		0			51	1518	34	800	2.32	9.61	1228	
1 12	52	210	25	703	44	1.00					46	607	36	755	2.53	5.59	934	
1 13	60	1526	37	656	37	0.14					57	1605	41	700	5.47	15.16	1144	
1 14	41	1359	25	650	26	0.00					44	1415	33	700	7.01	16.81	1142	
1 15	39	1356	24	651	24	0.00					41	1435	32	659	4.28	16.84	1249	
1 16	34	1525	16	550	16	0.00					40	1435	32	748	2.99	13.83	1217	
1 17	44	358	16	724	43	0.22					41	1456	32	734	8.18	15.56	1116	
1 18	59	1935	40	657	40	0.09					52	137	37	705	12.69	18.44	1355	
1 19	42	1029	18	619	18	0.00					48	1436	34	657	6.57	20.29	1152	
1 20	40	2215	18	722	35	0.00					42	1458	33	753	5.33	15.59	1212	
1 21	35	701	26	8	30	0.25	1.2	1			40	1322	34	657	3.66	12.89	1145	
1 22	32	1509	27	623	28	0.01		1			35	1552	32	643	0.52	3.99	1459	
1 23	31	659	27	1010	31	0.00		T			34	1518	32	733	0.55	3.01	1221	
1 24	46	2306	31	701	44	0.03		0			39	405	32	727	3.23	5.79	1047	
1 25	58	1607	32	107	33	0.00					55	1614	39	655	0.96	20.49	1217	
1 26	51	1354	31	742	39	0.00					53	1516	38	946	1.46	14.11	1215	
1 27	63	646	39	706	63	0.00					55	656	40	750	4.39	16.47	1056	
1 28	65	820	28	659	28	0.30					61	1454	38	659	6.50	21.35	1328	
1 29	54	1511	28	701	30	0.00					54	1526	37	659	5.33	20.65	1224	
1 30	49	1513	29	722	31	0.00					48	1538	36	659	6.48	14.75	1145	
1 31	48	1527	31	703	43	0.00					48	1539	36	746	4.23	11.24	1217	
Average	48		27		33	Total	2.21	2.6			47		35		4.34	15.44		
						Greatest	1.00	1.4										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	February 2012	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 occurane
	maximum	time occurrence	minimum	time occurrence	present				reading	after	maximum	time occurrence	minimum	time occurrence					
2 1	66	1516	43	705	49	0.04					58	1555	38	744		8.25	10.86	1238	
2 2	71	1420	48	624	48	0.17					61	1548	46	814		3.33	13.40	1148	
2 3	55	1539	32	606	33	0.00					56	1545	38	700		4.23	11.93	1358	
2 4	53	1543	27	434	31	0.00					55	1553	38	738		2.12	10.54	1159	
2 5	44	1407	31	706	36	0.15					44	1457	38	747		1.41	10.96	1003	
2 6	43	1524	23	641	24	0.00					45	1614	36	700		2.27	13.98	1235	
2 7	53	1521	24	737	35	0.00					53	1545	35	734		2.66	11.17	1209	
2 8	55	1457	29	401	33	0.00					57	1529	38	822		2.41	10.84	1220	
2 9	41	1308	30	649	30	0.09					41	1423	36	659		1.75	5.32	1105	
2 10	46	1518	28	652	28	0.00					51	1545	36	731		2.91	11.69	1219	
2 11	48	1438	27	714	32	0.16	0.3	T			52	1500	38	739	Rain & snow	1.64	14.01	1230	
2 12	41	1503	20	632	21	0.01	0.3	T			43	1519	31	632		9.89	12.91	1136	
2 13	32	1519	17	439	20	0.00		0			40	1647	31	721		6.58	15.72	1208	
2 14	48	1544	19	709	33	0.00					42	1430	32	701		3.32	11.92	1221	
2 15	56	1402	33	707	41	0.00					48	1623	35	808		3.13	15.36	1209	
2 16	55	1536	35	15	40	0.00					59	1538	39	758		3.91	11.40	1219	
2 17	46	1149	36	2317	39	0.08					45	1625	40	658		0.98	3.55	1122	
2 18	53	1519	26	653	26	0.00					58	1525	38	658		3.56	14.08	1303	
2 19	57	1516	26	710	35	0.00					58	1545	38	730		6.36	11.92	1225	
2 20	43	1259	33	658	34	0.05					45	1406	37	659		4.19	14.38	1302	
2 21	48	1538	21	648	22	0.00					55	1540	36	658		3.56	12.22	1226	
2 22	50	1559	21	712	39	0.00					50	1559	36	726		4.95	17.41	1157	
2 23	63	1528	38	707	46	T					61	1505	39	736		6.76	14.76	1333	
2 24	66	1431	46	701	48	0.02					68	1524	45	801		3.87	16.10	1155	
2 25	55	1253	38	658	38	0.40					56	1411	36	609		5.84	16.13	1234	
2 26	46	1334	32	655	32	0.00					51	1436	34	657		9.63	18.55	1236	
2 27	49	1555	31	330	33	0.00					55	1545	34	710		2.55	13.03	1213	
2 28	64	1606	33	712	38	0.00					61	1550	36	900		8.00	15.62	1302	
2 29	58	1615	32	419	37	0.00					66	1410	38	656		2.11	13.25	1217	
Average	52		30		35	Total	1.17	0.6			53		37			4.21	12.86		
						Greatest	0.40	0.3											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD		7:00 AM		March 2012		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					
3 1	60	256	36	702	54	1.55			4.38		52	425	38	1005		3.36	10.21	1259	
3 2	68	1403	31	640	32	0.00			4.20		70	1516	40	658		4.41	15.94	1043	
3 3	54	1252	32	700	48	0.47					56	1332	40	732		3.78	15.78	1157	
3 4	61	1533	42	658	42	0.00					58	1606	42	700		3.11	16.34	1314	
3 5	48	1352	27	525	28	0.00			4.18		54	1417	37	656		6.64	16.10	1212	
3 6	43	1413	24	648	24	0.03			4.22		44	1639	35	654		4.35	15.18	1409	
3 7	49	1444	24	700	39	0.00			4.12	3.05	53	1552	35	702		3.99	13.73	1219	
3 8	67	1516	38	700	54	0.00			2.88		65	1554	38	702		10.99	15.71	1145	
3 9	73	1416	46	658	46	0.06			2.66		70	1415	48	658		15.18	15.69	1405	
3 10	57	1545	29	649	30	0.00					59	1528	36	657		8.65	15.71	1308	
3 11	49	1540	26	614	28	0.00					58	1543	36	702		3.17	14.82	1224	
3 12	63	1550	28	709	40	0.00			2.25		65	1549	37	705		3.74	14.39	1216	
3 13	73	1446	40	701	58	0.05			2.13		71	1500	40	736		5.90	18.11	1407	
3 14	80	1520	54	253	62	T			2.05		79	1455	54	656		4.01	16.86	1259	
3 15	80	1619	48	614	48	0.00			1.80		78	1453	51	658		2.61	14.26	1159	
3 16	78	1253	48	700	49	0.00			1.65		78	1501	51	712		3.45	15.53	1335	
3 17	59	1451	45	555	46	0.00					61	1621	47	658		0.54	7.50	1235	
3 18	72	1429	46	702	49	0.00			1.53		79	1459	47	702		2.17	14.08	1222	
3 19	69	1527	48	423	51	0.00					72	1607	50	650		0.90	21.88	1247	
3 20	76	1325	51	700	60	0.00					77	1341	50	700		2.61	19.21	1218	
3 21	71	1654	57	613	57	0.10			1.43		74	1606	59	655		0.81	13.91	1332	
3 22	72	1531	53	229	57	0.01			1.39		75	1620	57	613		0.65	21.46	1312	
3 23	80	1516	54	522	55	0.00					84	1526	57	701		1.80	21.81	1150	
3 24	81	1504	55	700	59	0.00					86	1404	58	701		2.51	15.91	1148	
3 25	61	1057	51	631	51	0.23					63	1352	53	659		3.03	5.62	1212	
3 26	60	1640	49	550	53	0.00			1.31		62	1646	49	640		2.64	9.35	1626	
3 27	61	1020	29	610	33	0.00			1.07	1.42	69	1423	35	620		10.39	17.55	1157	
3 28	56	1553	33	700	49	0.00			1.30		66	1545	35	807		3.57	17.32	1151	
3 29	75	1258	48	701	57	0.01			1.24		72	1335	40	708		7.57	19.34	1247	
3 30	62	1316	35	623	38	0.00			1.06	1.26	73	1433	39	609		5.43	20.84	1221	
3 31	52	1221	38	700	47	0.00					54	1330	39	704		1.48	18.98	1045	
Average	65		41		47	Total	2.51	0.0			67		44			4.30	15.78		
						Greatest	1.55	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	April 2012	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	61	1204	45	548	46	0.00			1.02		70	1502	45	702		2.79	19.14	1210	
4 2	64	1559	44	617	45	0.12			1.71		72	1532	45	655		4.89	23.28	1204	
4 3	60	1558	31	547	34	0.00			1.54		70	1438	39	601		6.06	17.38	1230	
4 4	72	1547	34	700	49	0.00			1.47		76	1533	39	716		1.99	17.04	1204	
4 5	75	1713	41	605	45	0.00			1.17		75	1612	42	644		5.56	19.56	1119	
4 6	62	1434	38	18	41	0.00			1.76		73	1508	39	645		2.96	23.31	1235	
4 7	60	1616	33	614	39	0.00					70	1500	39	528		5.91	18.14	1225	
4 8	64	1558	34	535	47	0.00					70	1509	39	712		4.40	18.26	1229	
4 9	74	1507	47	701	54	0.00			1.77		75	1523	40	704		5.96	18.06	1234	
4 10	69	1433	43	549	46	0.00			1.59		73	1448	42	629		6.64	24.51	1101	
4 11	66	1459	39	514	41	0.00			1.36		72	1520	39	543		6.50	24.13	1122	
4 12	54	1543	38	525	43	T					59	1418	39	601		3.96	27.95	1203	
4 13	61	1543	39	529	46	0.00			1.15		68	1544	39	716		4.18	26.25	1159	
4 14	67	1554	38	346	46	0.00					77	1434	42	701		2.57	18.58	1221	
4 15	75	1249	46	700	63	0.00					75	1315	42	700		4.08	19.57	1158	
4 16	84	1407	63	719	67	0.00			0.46	1.66	86	1407	57	700		5.90	19.67	1221	
4 17	89	1440	66	604	69	0.00			1.39		89	1454	60	619		5.59	17.38	1220	
4 18	77	1445	53	150	57	0.00			1.14		82	1459	51	557		4.33	24.75	1203	
4 19	58	900	46	559	51	0.03			1.18	2.10	58	1424	49	621		1.21	7.31	1155	
4 20	71	1526	43	503	48	T			1.94		83	1527	49	700		1.02	24.37	1228	
4 21	75	1410	48	700	59	0.00					85	1422	51	701		2.20	20.39	1259	
4 22	82	1443	50	655	50	0.04					86	1343	53	700		6.70	22.01	1232	
4 23	50	708	39	551	40	1.27			2.84		53	706	43	628		8.54	2.92	1419	
4 24	48	1506	39	525	45	0.05			2.85		56	1506	40	537		4.68	21.06	1123	
4 25	63	1417	36	546	44	0.00			2.65		71	1416	41	700		4.79	22.73	1300	
4 26	70	1626	44	700	55	0.01			2.64		75	1445	44	700		3.18	20.61	1158	
4 27	65	1605	48	529	48	0.16			2.58		66	1743	48	659		3.90	9.01	1118	
4 28	63	1544	36	402	47	0.00					73	1445	42	611		5.13	25.28	1246	
4 29	58	1433	42	500	46	0.30					60	1542	43	700		0.78	11.78	1255	
4 30	71	1542	43	134	50	0.00			2.45		81	1447	47	701		1.57	19.56	1215	
Average	67		43		49	Total	1.98	0.0			73		44			4.26	19.47		
						Greatest	1.27	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		May 2012		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	66	1505	49	704	63	0.09			2.45		68	1601	50	709		3.38	22.93	1356		
5 2	84	1548	61	300	63	0.02			2.32		88	1443	58	700		2.82	23.09	1203		
5 3	71	1319	54	540	55	0.00			2.19		79	1355	57	555		2.51	24.21	1143		
5 4	80	1457	55	702	65	0.18			2.25		89	1545	57	701		1.79	21.24	1206		
5 5	81	1533	61	538	67	0.00					83	1555	64	700		1.16	18.05	956		
5 6	81	1210	59	644	59	0.00					89	1242	62	651		2.16	25.22	1213		
5 7	71	1505	51	514	55	0.15			2.06		78	1623	56	550		1.11	27.48	1109		
5 8	71	1315	55	700	62	0.00			1.89		76	1316	56	701		6.16	25.61	1248		
5 9	73	1535	62	701	65	0.14			1.95		75	1533	58	704		5.61	22.21	952		
5 10	74	1352	52	529	55	0.25			2.09		78	1456	55	623		1.64	16.37	1008		
5 11	68	1554	45	524	54	0.00			1.90		78	1422	47	607		5.38	26.05	1133		
5 12	72	1533	45	509	59	0.00					83	1436	48	700		3.33	19.21	1202		
5 13	78	1444	55	40	62	0.00			1.50		87	1448	51	700		1.85	21.82	1231		
5 14	81	1431	61	631	62	0.00			1.30		89	1433	58	700		4.93	18.91	1250		
5 15	73	1357	62	720	65	0.72			1.96		77	1404	62	701		2.70	19.77	1121		
5 16	80	1617	60	524	64	0.07			1.97		89	1552	63	604		1.83	23.74	1203		
5 17	82	1429	60	657	61	0.00			1.71		91	1446	62	658		1.92	22.61	1227		
5 18	75	1520	46	505	58	0.00			1.51		90	1509	52	600		3.14	18.31	1312		
5 19	74	1446	48	443	59	0.00					88	1509	53	551		2.21	20.45	1202		
5 20	81	1422	51	448	63	0.00					93	1516	54	700		1.49	19.06	1140		
5 21	79	1254	63	700	63	0.25			1.24		84	1556	58	701		5.05	29.99	1253		
5 22	77	1539	63	700	65	0.11			1.30		81	1700	65	701		2.71	18.59	1357		
5 23	78	1539	63	522	66	0.00			1.21		86	1618	65	621		0.90	25.00	1428		
5 24	80	1532	66	702	70	0.00			1.11		85	1607	66	700		2.08	26.31	1213		
5 25	82	1327	68	2353	71	0.01			0.90	2.03	93	1332	69	700		3.88	24.05	1228		
5 26	85	1237	65	405	70	0.00					95	1439	68	541		2.37	22.34	1244		
5 27	87	1251	66	427	70	0.00					99	1338	68	530		2.31	21.77	1225		
5 28	87	1318	65	415	74	0.00					98	1432	67	534		3.58	18.71	1220		
5 29	92	1357	72	507	76	0.14			1.28		101	1404	69	700		3.25	18.11	1220		
5 30	90	1345	67	530	68	0.46			1.44		97	1414	69	538		5.96	19.92	1302		
5 31	81	1417	63	419	69	0.00			1.30		89	1630	65	547		1.34	18.69	1322		
Average	79		58		64	Total	2.59	0.0			86		60			2.92	21.93			
						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 2012	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					
6 1	85	1520	61	131	69		T		1.08		95	1521	65	526		2.56	19.22	1157	
6 2	82	1359	57	535	61		0.92				84	1428	61	613		3.83	26.71	1116	
6 3	74	1620	52	509	62		0.00				86	1522	57	555		2.95	26.97	1323	
6 4	80	1527	56	521	65		0.00		1.45		88	1529	59	700		3.77	33.90	1227	
6 5	73	1539	56	636	57		0.00		1.26		82	1348	59	642		5.54	39.92	1139	
6 6	69	1545	50	353	62		0.00		1.14		81	1355	54	534		1.52	37.52	1321	
6 7	75	1548	52	503	62		0.00		0.96	2.37	86	1559	56	700		1.39	29.56	1125	
6 8	81	1339	52	455	66		0.01		2.29		87	1346	58	700		1.90	24.69	1133	
6 9	85	1355	60	457	70		0.00				92	1522	59	700		2.56	21.70	1309	
6 10	91	1341	62	505	72		0.00				97	1456	65	700		3.34	19.22	1227	
6 11	92	1432	64	455	75		0.00		1.43		100	1410	67	700		2.74	18.58	1225	
6 12	90	1211	68	354	69		0.11		1.39		94	1306	69	545		4.98	22.92	1258	
6 13	74	1240	67	503	68		0.24		1.54		77	1524	68	610		2.13	7.71	1523	
6 14	79	1547	65	2226	67		0.00		1.26	1.97	88	1410	62	536		6.80	23.23	1247	
6 15	80	1451	58	418	67		0.00		1.82		88	1627	62	539		2.49	27.80	1049	
6 16	80	1421	54	450	65		0.00				93	1400	60	547		2.49	23.07	1230	
6 17	80	1457	52	458	66		0.00				92	1512	58	551		2.61	19.58	1212	
6 18	74	1234	56	313	59		0.05		1.31		85	1521	59	700		2.28	22.69	1449	
6 19	71	1525	59	700	69		0.05		1.17		75	1526	61	701		1.41	10.49	1425	
6 20	88	1600	69	516	76		0.00		0.92	2.27	99	1526	68	700		1.33	17.45	1317	
6 21	97	1501	70	459	81		0.00		2.04		104	1504	72	700		1.58	19.51	1238	
6 22	99	1304	75	501	80		0.00		1.76		102	1400	76	700		1.86	20.30	1226	
6 23	96	1247	68	508	75		0.31				99	1248	71	546		2.08	21.29	1033	
6 24	88	1408	63	436	75		0.00				97	1401	67	542		2.63	27.31	1153	
6 25	92	1516	69	14	74		0.02		1.43		97	1420	68	700		1.76	32.99	1247	
6 26	87	1336	58	452	65		0.00		1.16	2.56	91	1542	55	546		5.24	28.15	1156	
6 27	80	1631	57	402	68		0.00		2.34		87	1422	56	700		4.43	24.76	1345	
6 28	87	1528	60	507	72		0.00		2.06		93	1447	61	700		3.09	18.47	1235	
6 29	94	1429	72	702	79		0.00		1.78		96	1432	66	700		2.51	21.92	1036	
6 30	104	1551	69	2214	75		0.55				136	104	72	550		2.13	17.56	1343	
Average	84		61		69	Total	2.26	0.0			92		63			2.86	23.51		
						Greatest	0.92	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM		July 2012		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
7 1	95	1516	72	500	79	0.00			1.77		106	1336	73	700		1.41	25.84	1143
7 2	97	1554	71	533	78	0.10			1.66		101	1405	72	605		2.55	21.50	1305
7 3	92	1434	67	341	77	0.00			1.33		99	1409	70	545		2.70	18.93	1216
7 4	97	1520	70	30	75	0.00					101	1357	71	700		1.30	18.40	1256
7 5	98	1622	74	737	83	0.00			0.82		103	1453	72	700		1.70	18.03	1246
7 6	100	1629	76	502	82	0.00			0.47	2.68	104	1438	74	700		2.28	17.78	1233
7 7	99	1534	75	457	84	0.00					103	1532	76	701		0.97	17.81	1234
7 8	105	1537	79	524	86	0.00			2.03		102	1411	78	703		1.57	18.39	1259
7 9	101	1258	72	627	72	0.17			2.00		105	1312	76	657		1.33	19.14	1312
7 10	84	1659	69	427	77	T			1.87		89	1632	72	554		1.44	27.30	1146
7 11	89	1432	68	453	72	0.07			1.68		98	1438	71	539		2.19	22.61	1101
7 12	88	1448	64	513	70	0.00			1.46		93	1511	68	535		1.75	22.76	1212
7 13	88	1318	67	247	72	0.00			1.23	1.97	94	1348	69	701		1.67	21.52	1159
7 14	89	1359	70	700	70	0.00					94	1417	71	701		1.04	27.15	1301
7 15	86	1149	68	742	76	0.00					92	1400	72	748		1.68	22.76	1145
7 16	96	1420	71	513	78	0.05			1.51		99	1430	74	554		1.54	23.21	1234
7 17	96	1607	71	445	78	0.00			1.25		101	1353	74	604		1.59	21.74	1233
7 18	101	1348	75	457	82	0.00					103	1359	74	548		1.53	20.24	1324
7 19	102	1435	75	5	79	0.03			0.75	2.77	103	1326	74	516		2.23	19.71	1250
7 20	96	1454	72	2214	74	1.60			4.07	2.14	99	1537	74	531		2.11	21.88	1055
7 21	80	1159	65	700	65	0.00					83	1240	68	659		2.03	13.00	943
7 22	68	1428	65	754	68	0.00					71	1544	67	753		0.89	5.67	1329
7 23	81	1634	68	709	74	0.22			2.21		85	1633	68	702		0.60	26.09	1433
7 24	88	1218	72	521	78	0.00			2.09		91	1307	72	605		0.77	24.48	1019
7 25	90	933	65	528	72	0.00			1.95		89	1237	68	557		1.81	16.68	927
7 26	88	1704	68	2154	76	0.00			1.69		99	1524	69	534		1.49	18.87	1255
7 27	96	1412	71	416	77	0.00			1.45		102	1438	70	701		3.69	18.88	1240
7 28	94	1528	73	534	78	0.00					100	1538	74	702		1.68	22.62	1206
7 29	95	1419	67	432	72	1.33					102	1443	69	554		1.34	25.33	1206
7 30	85	1607	67	445	75	0.00			2.13		97	1617	70	701		1.50	26.80	1127
7 31	87	1337	68	541	73	0.00			1.92		96	1343	71	631		2.51	26.58	1024
Average	92		70		76	Total	3.57	0.0			97		72			1.71	21.02	
						Greatest	1.60	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM August 2012		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				
8 1	87	1356	69	219	72	0.00			1.74		98	1403	71	701	2.97	22.56	1248	
8 2	88	1445	68	452	74	0.03			1.62		98	1511	72	702	0.85	20.60	1303	
8 3	90	1249	69	517	74	0.07			1.52		99	1305	72	557	1.12	22.63	1224	
8 4	91	1308	74	700	77	0.00					100	1345	72	702	2.32	19.79	1220	
8 5	94	1416	76	538	79	0.00					100	1420	74	554	3.49	20.36	1130	
8 6	94	1322	75	2135	77	0.03			0.83	2.2	98	1345	75	604	4.83	20.72	1306	
8 7	90	1517	71	536	74	0.01			2.06		96	1522	73	551	0.66	28.15	1201	
8 8	86	1306	70	401	75	0.00			1.96		91	1623	73	556	0.81	15.31	1151	
8 9	89	1136	69	549	74	0.00			1.81		91	1211	72	606	2.12	19.53	1143	
8 10	94	1255	71	659	71	0.21			1.91		101	1408	73	701	4.33	19.76	1124	
8 11	85	1426	69	549	70	0.41					89	1455	71	603	3.68	24.56	1244	
8 12	87	1508	66	534	68	0.17			2.08		94	1506	70	610	2.38	26.07	1153	
8 13	87	1620	65	456	69	0.00			1.92		95	1506	69	608	1.28	22.38	1310	
8 14	88	1335	69	707	72	0.00			1.69		97	1436	69	700	1.28	20.78	1212	
8 15	90	1349	68	516	74	0.00			1.54		98	1421	71	611	1.36	20.59	1007	
8 16	86	1527	65	602	70	0.00			1.40		92	1551	67	631	1.00	18.30	1251	
8 17	89	1518	64	552	70	0.00			1.18	1.54	97	1440	67	632	1.37	19.67	1325	
8 18	91	1353	65	544	68	0.11			0.11		94	1344	67	700	4.30	16.34	1318	
8 19	85	1333	61	220	65	0.00			1.24	1.62	93	1403	65	615	2.40	22.00	1218	
8 20	76	1003	64	307	66	0.06			1.64		76	1717	65	700	0.73	6.25	917	
8 21	81	1413	61	550	65	0.17			1.66		88	1520	65	626	1.10	28.10	1211	
8 22	85	1524	60	604	67	0.00			1.50	1.91	96	1424	65	607	0.80	20.06	1231	
8 23	86	1337	63	611	67	0.00			1.74	2.11	91	1335	66	700	1.02	22.60	1237	
8 24	87	1539	64	556	67	0.00			1.92	2.31	92	1505	67	700	1.25	19.28	1047	
8 25	88	1353	67	700	71	0.00					91	1458	68	700	0.92	18.38	1327	
8 26	80	1156	68	2020	69	0.14					80	1232	68	700	1.59	18.52	1026	
8 27	81	1146	68	404	70	0.89			3.05		83	1154	68	706	1.92	25.66	1144	
8 28	88	1414	70	700	73	0.01			2.87		96	1439	69	701	2.55	28.03	1220	
8 29	90	1444	62	542	67	0.02			2.69		93	1447	67	623	1.94	34.09	1027	
8 30	86	1506	61	614	65	0.00			2.51		94	1524	66	631	0.88	22.05	1319	
8 31	89	1351	65	700	71	0.00			2.36		93	1514	66	702	1.30	19.74	1226	
Average	87		67		71	Total	2.33	0.0			93		69		1.89	21.38		
						Greatest	0.89	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	September 2012	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					
9 1	96	1500	71	555	75	0.00					95	1505	71	702		2.80	15.79	1226	
9 2	92	1400	68	429	71	0.71					91	1540	71	615		2.40	16.32	1310	
9 3	82	1543	71	700	74	0.10					85	1549	72	700		0.63	14.82	851	
9 4	84	1411	72	445	74	T			2.66		88	1518	74	700		2.08	27.14	1154	
9 5	90	1438	74	702	77	0.00			2.51		91	1454	74	618		5.35	28.20	1137	
9 6	87	1153	74	615	74	0.22			2.61		92	1552	74	702		1.94	20.67	1149	
9 7	82	1401	65	512	68	0.15			2.68		86	1547	68	632		1.44	24.85	1324	
9 8	89	1425	68	701	74	0.00					95	1444	68	700		2.36	18.43	1243	
9 9	89	1429	57	549	60	0.00					92	1354	62	634		4.06	21.85	1253	
9 10	80	1553	54	600	59	0.54			2.70		85	1600	58	637		2.08	23.40	1225	
9 11	75	1531	49	610	53	0.00			2.53		82	1437	54	646		3.82	19.32	1145	
9 12	79	1619	49	605	52	0.00			2.48		86	1535	55	702		0.88	15.25	1151	
9 13	80	1431	51	559	54	0.00			2.25		88	1452	56	706		1.32	14.80	1207	
9 14	82	1456	53	609	56	0.00			2.09		89	1500	58	703		0.85	14.63	1210	
9 15	84	1423	56	700	62	0.00					90	1429	59	701		3.11	18.07	1329	
9 16	78	1424	51	436	53	0.00					85	1504	56	643		3.60	15.55	1331	
9 17	76	1210	49	543	53	0.00			1.64		78	1434	55	646		0.94	20.15	1056	
9 18	74	1447	53	700	71	0.04			1.58		77	1501	55	705		3.30	18.73	1340	
9 19	79	1254	59	601	60	0.86			2.41		78	1351	60	640		7.39	21.48	1253	
9 20	72	1436	46	622	48	0.00			2.23		83	1450	53	654		2.88	21.57	1127	
9 21	75	1348	49	701	52	0.00			2.10		83	1457	53	703		1.54	24.27	1214	
9 22	80	1347	52	700	64	0.00					86	1454	56	700		2.97	25.26	1218	
9 23	85	1514	52	631	54	0.00					88	1429	54	659		5.72	20.79	1203	
9 24	69	1256	47	553	49	0.00			1.66		81	1514	52	639		3.06	21.08	1214	
9 25	70	1558	45	347	50	0.00			1.51		78	1424	48	646		1.81	20.39	1125	
9 26	76	1440	50	700	62	0.02			1.38		79	1441	48	702		5.33	13.45	1202	
9 27	85	1340	62	638	64	0.00			1.27		85	1500	60	707		4.06	17.00	1204	
9 28	84	1304	64	623	64	0.38			1.52	2.91	88	1337	64	700		1.79	13.63	1205	
9 29	81	1357	57	639	57	0.14								927	Malfunction of water thermome	1.38	17.44	1220	
9 30	72	1347	47	629	48	0.00					75	1417	53	653		2.22	19.15	1214	
Average	81		57		61	Total	3.16	0.0			86		60			2.77	19.45		
						Greatest	0.86	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	October 2012		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	73	1518	48	558	48		0.00			2.68		75	1512	52	657		2.84	16.22	1310	
10 2	71	1338	48	710	65		0.07			2.66		74	1409	51	727		0.98	21.58	1117	
10 3	73	445	65	700	71		0.13			2.77		72	1548	63	704		1.66	6.51	1329	
10 4	82	1447	69	530	70		0.02			2.71		84	1448	71	700		1.28	29.46	1116	
10 5	80	1610	55	641	56		0.01			2.62		79	1355	59	652		1.23	22.60	1133	
10 6	82	1406	56	700	61		0.00			2.48		83	1453	59	645		1.81	19.36	1240	
10 7	80	1212	44	256	50		0.00					76	1225	49	620		4.26	20.24	1211	
10 8	53	1110	40	617	42		0.19			2.49		54	1443	42	619		0.58	5.99	1106	
10 9	54	1352	42	700	47		0.16			2.62		53	1507	42	723		2.15	19.23	1349	
10 10	61	1457	47	709	56		0.04			2.63		63	1525	47	716		2.28	19.23	951	
10 11	70	1521	42	637	45		0.00			2.50		73	1526	45	657		4.00	26.18	1125	
10 12	63	1440	37	607	38		0.00			2.36		68	1517	43	655		2.49	18.33	1159	
10 13	65	1245	31	637	32		0.00					68	1449	39	659		4.01	20.10	1256	
10 14	61	1518	32	701	45		0.00					65	1511	38	725		2.11	17.89	1132	
10 15	76	1436	45	700	66		0.00			1.99		73	1447	44	700		8.66	27.13	1140	
10 16	70	1630	48	645	49		0.06			2.00		69	1631	48	652		3.73	13.95	1433	
10 17	66	1433	38	633	39		0.00			1.91		69	1434	43	659		2.67	21.86	1142	
10 18	70	1344	39	701	50		T			1.86		69	1515	43	704		2.02	13.65	1136	
10 19	73	1249	50	704	64		0.21			1.97		72	1337	49	715		5.13	18.31	1319	
10 20	77	1416	45	645	46		0.11					78	1432	51	657		3.46	16.62	1128	
10 21	69	1421	43	338	43		0.00					72	1420	45	648		1.80	14.96	1410	
10 22	66	1319	39	636	39		0.00			1.66		71	1416	43	649		2.57	15.02	1406	
10 23	72	1455	39	700	47		0.00			1.58		72	1450	43	712		1.67	15.03	1142	
10 24	80	1403	47	701	55		0.00			1.50		78	1446	49	704		0.99	19.62	1049	
10 25	84	1432	55	700	61		0.00			1.37		79	1516	57	702		1.29	17.94	1037	
10 26	70	1538	60	2300	61		0.00			1.25	1.64	72	1511	60	646		1.62	13.61	1311	
10 27	69	1340	55	640	55		0.00					70	1340	55	638		1.14	12.01	1114	
10 28	69	1143	55	700	57		0.00					70	1335	54	633		4.93	10.88	1121	
10 29	58	1344	50	659	50		1.38					55	1214	50	659		10.35	2.71	1051	
10 30	50	700	40	700	40		5.65					50	1205	41	700		14.23	1.77	1146	
10 31	42	1550	38	2345	40		0.32			O.F.	3.32	43	1446	40	605		2.91	3.99	1223	
Average	69		47		51	Total	8.35	0.0				69		49			3.25	16.19		
						Greatest	5.65	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	November 2012	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	54	1330	38	227	40	0.00			3.25		56	1418	40	700		1.81	16.92	1153	
11 2	50	1617	38	400	40	0.00			3.20		49	1553	39	641		1.90	10.14	908	
11 3	53	1040	39	736	43	0.00					50	1256	39	700		6.31	19.37	1254	
11 4	51	1434	33	251	39	0.00					51	1439	38	457		4.64	18.01	1402	
11 5	52	1331	33	2311	40	0.00			2.87		57	1443	38	703		2.95	16.71	958	
11 6	49	1515	27	358	28	0.00			2.82		55	1439	36	659		3.89	14.87	1041	
11 7	47	1403	28	705	38	0.00			2.77		54	1421	36	705		2.38	11.68	1033	
11 8	43	1601	36	752	38	0.14			2.71		43	1454	37	513		5.55	5.68	1014	
11 9	55	1358	38	711	39	0.00			2.54		54	1518	38	706		5.09	12.66	1105	
11 10	57	1435	31	658	31	0.00					58	1514	38	717		2.36	9.61	1206	
11 11	66	1402	31	706	35	0.00					60	1502	39	825		0.84	15.67	1110	
11 12	71	1411	35	717	43	0.00			2.20		66	1506	41	812		2.03	14.23	1200	
11 13	74	1323	42	705	43						69	1359	46	753		8.31	17.07	1218	
11 14	48	1441	30	639	30	0.32					52	1455	37	659	two day rain total	4.76	12.72	1318	
11 15	47	1359	30	712	39	0.00					52	1442	37	706		3.17	11.09	1136	
11 16	49	1305	37	214	39	0.00			2.13		51	1433	38	740		1.90	5.03	1315	
11 17	52	1446	28	617	29	0.00					54	1443	36	654		2.24	11.15	1213	
11 18	53	1411	29	712	38	0.00					55	1438	36	700		2.61	10.38	1132	
11 19	52	1336	37	729	45	0.00			1.84		53	1452	37	700		3.88	7.07	1331	
11 20	55	1419	40	2258	44	0.00			1.82		56	1423	43	722		2.76	10.62	1311	
11 21	55	1138	30	700	30	0.00			1.77		58	1418	38	504		0.87	12.81	1138	
11 22	56	1448	27	637	27	0.00					58	1423	36	659		1.75	10.35	1158	
11 23	58	1358	27	649	27	0.00					57	1507	36	718		1.18	10.32	1141	
11 24	63	1352	27	715	38	0.00					58	1415	37	726		5.90	11.53	1249	
11 25	44	1405	31	652	32	0.00					45	1412	34	641		6.57	14.51	1256	
11 26	42	1500	23	150	30	0.00			1.43		43	1457	33	430		2.40	8.90	1441	
11 27	57	1453	30	717	41	0.01			1.43		52	1508	34	707		1.28	9.89	1156	
11 28	42	1036	34	2226	37	0.09			1.50		41	1208	36	659		4.12	1.02	1048	
11 29	48	1408	23	652	23	0.00			1.49		51	1437	34	659		3.12	11.09	1226	
11 30	51	1238	23	701	24	0.00			1.41		48	1449	33	714		1.89	10.04	1211	
Average	53		32		36	Total	0.56	0.0			54		37			3.28	11.70		
						Greatest	0.32	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	December 2012		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 occurene	
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance					
12 1	53	1317	24	706	29		0.00					48	1454	34	734		0.79	10.53	1203	
12 2	49	1547	28	715	32		0.00					46	1528	35	737		0.66	4.94	1450	
12 3	60	1444	32	702	44		0.01			1.32		54	1526	36	715		2.23	9.79	1212	
12 4	72	1344	41	726	55		0.00			1.30		68	1425	46	739		0.78	11.51	1036	
12 5	73	1334	54	701	56		0.00			1.28		69	1444	52	712		5.25	11.97	1116	
12 6	59	1445	27	659	27		0.00			1.07		59	1414	34	700		6.48	9.95	1258	
12 7	45	1409	27	731	39		0.03			1.10		48	1456	34	703		1.28	10.30	1207	
12 8	50	1605	38	742	49		0.43					47	657	36	703		0.96	5.37	1139	
12 9	57	1535	48	513	49		0.06					58	1453	47	712		0.75	9.92	1318	
12 10	51	652	48	1655	51		0.09			1.56		52	1155	49	341		1.34	5.04	912	
12 11	65	1411	44	628	44		0.18			1.72		64	1411	46	700		6.84	13.31	1304	
12 12	50	1411	33	525	35		0.00			1.68		54	1413	37	601		3.42	10.30	1341	
12 13	46	1323	32	603	33		0.00			1.65		54	1322	35	700		1.39	15.35	1214	
12 14	48	1505	22	633	23		0.00			1.63		57	1220	33	658		1.67	11.68	1201	
12 15	55	1454	22	732	30		0.00					53	1212	33	758		1.62	10.84	1209	
12 16	53	1520	30	707	44		0.04					54	1429	35	743		1.55	13.10	1006	
12 17	50	1356	43	700	48		0.05			1.60		51	1352	42	702		0.95	3.63	1109	
12 18	55	234	48	701	49		0.05					52	232	48	702		2.12	1.80	1146	
12 19	60	1213	30	658	30		0.00					59	1210	37	655		4.11	13.22	1233	
12 20	54	1242	30	710	34		0.00			1.52		50	1249	37	756		3.51	13.59	1206	
12 21	57	250	34	753	43		0.96			2.42		53	355	37	734		8.80	11.22	1134	
12 22	44	1020	37	308	39		0.00					46	1020	34	219		10.19	10.41	1035	
12 23	44	1413	25	700	25		0.00			2.19		46	1418	33	630		8.16	14.74	1149	
12 24	48	1356	24	658	24		0.00					45	1347	33	740		2.20	10.77	1301	
12 25	39	1226	23	710	34		0.17			2.33		40	1151	33	730		1.06	3.06	1107	
12 26	49	1309	33	448	34		0.04					49	1436	35	904		3.64	10.21	1242	
12 27	50	1858	32	817	36		1.43			3.77		41	2356	35	1326		6.74	0.94	1331	
12 28	42	1244	31	655	31		0.00					45	1335	36	651		7.59	13.65	1143	
12 29	43	1533	30	710	36		0.00					46	1529	36	811		1.83	11.19	1315	
12 30	40	1952	33	1118	36		0.17	0.4	0	3.81		40	1544	36	659	Freezing rain	5.17	3.45	1456	
12 31	40	1350	26	415	28		0.00					44	1356	34	700		6.82	14.48	1149	
Average	52		33		38	Total	3.71	0.4				51		38			3.55	9.69		
						Greatest	1.43	0.4												

S. No. 18-9070-4