

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM	January 2014		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
1 1	46	1431	24	425	26		0.00					45	1437	35	700		4.85	0.00	638
1 2	48	1344	26	748	27		0.00					42	1501	34	746		1.86	0.00	712
1 3	36	1715	16	659	16		0.39	4.0	4			39	1335	33	657		0.92	0.09	921
1 4	23	1504	5	352	5		0.00		4			38	1414	32	654		0.52	0.00	2245
1 5	34	304	5	700	32		0.00		3			39	1501	32	725		2.60	0.00	1026
1 6	51	233	33	700	46		0.26		0			38	1439	33	754		1.37	0.25	1044
1 7	47	712	4	658	4		0.00					41	1538	31	621		10.74	0.22	941
1 8	18	1458	3	717	6		0.00					35	1503	31	700		3.75	0.00	809
1 9	31	1514	6	703	24		0.00					38	1412	31	704		1.26	0.01	1011
1 10	38	1344	23	720	31		0.14					40	1341	32	708		0.96	0.03	609
1 11	36	645	31	708	36		0.55					35	1333	32	730		0.56	0.24	823
1 12	64	1401	36	734	43		0.46					43	1831	33	725		5.54	0.29	1435
1 13	52	1523	26	602	26		0.00					48	1601	38	658		3.56	0.00	634
1 14	59	1451	25	717	49		0.00					54	1522	35	831		6.52	0.39	822
1 15	49	702	33	2337	35		0.15					48	1448	38	641		0.81	0.63	1206
1 16	49	1222	33	453	34		0.09					48	1517	36	659		3.96	0.73	1055
1 17	41	1451	24	2329	26		0.00					45	1530	34	656		2.43	0.00	140
1 18	49	1337	25	720	30		0.00					45	1504	34	729		2.85	0.00	706
1 19	31	1402	19	700	19		0.00					40	1456	32	658		5.32	0.00	131
1 20	49	1413	18	731	38		0.00					41	1411	32	715		6.78	0.01	740
1 21	57	1534	28	329	34		0.00					51	1548	35	746		3.68	0.00	405
1 22	34	702	6	641	6		0.12	3	3			36	1254	31	644		11.21	0.01	1510
1 23	17	1618	2	636	2		0.00		3			34	1440	31	810		4.67	0.00	749
1 24	28	1255	2	708	8		0.00		3			35	1325	31	2015		5.44	0.01	1326
1 25	23	1500	7	738	22		0.00		3			32	1417	28	700		7.38	0.00	834
1 26	33	2203	19	659	19		0.00		2			30	1604	18	700		8.66	0.00	817
1 27	42	514	18	740	41		0.00		T			31	659	17	825		4.25	0.00	750
1 28	53	1128	12	653	12		0.00		0			32	1342	22	700		11.74	0.00	400
1 29	16	1509	9	621	10		0.05	1.5	2			27	1413	17	659		2.42	0.00	942
1 30	24	1610	1	652	1		0.00		1			28	1551	15	700		2.84	0.01	502
1 31	32	1425	1	724	23		0.00					31	1607	14	827		1.85	0.00	748
Average	39		17		24	Total	2.21	8.5				39		30			4.23	0.10	
						Greatest	0.55	4.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	February 2014		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				
2 1	50	1425	22	729	22	0.00					32	1534	23	814		0.94	0.00	708
2 2	50	1544	22	714	30	0.00					32	1509	30	806		2.24	0.01	334
2 3	63	1455	29	719	38	1.08					34	612	31	733		2.34	0.12	229
2 4	38	700	26	639	26	0.51					36	1532	32	656		4.63	0.51	1309
2 5	37	1441	26	715	32	0.33					47	1337	32	708		0.79	0.05	655
2 6	40	1959	27	654	27	0.01					39	1550	32	652		6.15	0.31	1256
2 7	35	1603	21	654	22	0.00					48	1240	32	718		3.05	0.01	601
2 8	44	1425	21	719	27	0.00					47	1157	34	720		1.57	0.01	626
2 9	34	1506	19	128	26	0.00					45	1519	34	658		0.67	0.01	819
2 10	34	1155	24	653	25	T	0.3	T			42	1254	32	659		3.55	0.01	221
2 11	31	1501	15	645	16	0.00		0			42	1238	31	655		4.80	0.01	433
2 12	32	1539	12	700	12	0.00					42	1433	31	707		2.37	0.01	2215
2 13	33	659	12	700	33	1.09	6	6			41	1212	32	702		4.66	0.05	629
2 14	36	1137	32	2044	34	0.80	4	8			35	1506	32	645		8.45	0.98	756
2 15	54	1531	30	2152	34	0.00		6			41	1246	32	701		2.07	0.02	819
2 16	36	1603	23	659	23	0.06	T	5			37	1406	31	626		7.33	1.83	1305
2 17	40	1418	22	643	22	0.00		5			42	1143	31	710		2.15	0.01	828
2 18	38	1500	21	730	26	0.05	0.4	5			41	1408	32	718		2.82	0.01	2323
2 19	55	1607	25	727	33	0.00		4			41	1455	32	700		3.26	0.00	437
2 20	60	1538	28	646	29	0.09		1			45	1538	32	718		5.31	0.89	924
2 21	55	1245	28	718	41	0.00		0			55	1326	37	723		2.46	0.01	800
2 22	69	1206	27	645	27	0.02					59	1338	37	700		3.33	1.00	1223
2 23	62	1523	27	701	45	0.00					61	1514	37	719		6.93	0.54	849
2 24	64	1517	36	642	36	0.00					61	1541	38	659		3.65	0.01	642
2 25	45	1336	26	239	30	0.00					54	1422	34	700		6.38	0.01	552
2 26	37	1516	24	12	27	0.12	1.2	1			42	1518	33	700		0.73	0.47	1238
2 27	36	1458	14	358	23	0.01	0.2	T			43	1346	32	655		2.92	0.18	1056
2 28	40	1418	10	636	11	0.00					43	1313	31	159		9.78	0.00	643
Average	45		23		28	Total	4.17	12.1			44		32			3.76	0.25	
						Greatest	1.09	6.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM		March 2014		EASTERN						
DATE	TEMPERATURE F						RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE WIND SPEED MPH	SOLAR watts per sq ft	RADIATION time occurene	
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance					
3 1	30	1547	11	700	13		0.00					43	1346	31	639		1.66	0.00	706	
3 2	47	1457	13	702	34		0.00					44	1328	31	701		1.36	0.01	513	
3 3	52	1303	25	658	25		0.68	1.2	1	Frozen		42	1141	33	659		1.89	0.76	1611	
3 4	25	700	4	143	6		0.12	2.6	4	Frozen		33	1220	31	648		0.52	0.01	45	
3 5	35	1526	6	700	15		0.00		3	Frozen		39	1524	32	700		0.55	1.03	1050	
3 6	44	1449	15	707	23		0.00		1	Frozen		42	1300	31	648		3.83	0.11	825	
3 7	33	1500	23	700	30		0.00		T	Frozen		42	1318	32	702		4.51	0.01	1047	
3 8	41	1529	27	643	27		0.00					41	1225	32	702		4.92	0.01	654	
3 9	64	1523	27	700	42		0.00					59	1619	34	700		3.13	0.01	701	
3 10	50	1427	33	102	39		0.00			2.48		61	1456	38	634		4.01	0.01	1609	
3 11	60	1548	39	700	45		0.00			2.39		54	1624	38	700		3.11	0.01	833	
3 12	72	1645	38	543	41		0.00			2.33		59	1725	42	704		0.81	0.01	2317	
3 13	67	1252	21	648	21		0.06					60	1652	31	646		12.27	0.15	1746	
3 14	34	1530	20	152	29		0.00			2.36		42	1319	31	704		7.15	0.01	733	
3 15	58	1516	29	700	51		0.00			2.03		52	1621	32	700		10.77	0.00	705	
3 16	67	1448	33	436	36		0.00			1.83		67	1534	39	635		3.83	0.01	2105	
3 17	45	1224	24	604	24		0.42	5.8	6			51	1249	33	651		4.81	0.01	204	
3 18	31	659	24	703	31		T	T	4			40	1424	33	701		3.58	0.01	1301	
3 19	41	1404	30	700	35		0.00		T	2.36		43	1306	33	700		2.76	0.01	757	
3 20	42	500	35	700	42		0.24			2.63		44	1630	35	700		0.87	0.62	1532	
3 21	59	1542	34	609	35		0.00			2.43		66	1501	39	610		5.35	0.06	733	
3 22	53	1344	33	11	45		0.00					54	1638	37	713		1.50	0.12	1358	
3 23	70	1632	38	609	39		0.00			2.24		63	1632	39	625		5.27	0.01	443	
3 24	45	1453	23	631	24		0.00			2.08		45	1652	32	649		7.83	0.01	2343	
3 25	41	1515	23	147	29		0.00			2.03		50	1615	32	700		2.86	0.01	1012	
3 26	34	1356	27	623	28		0.16	0.5	0			40	1345	32	629		1.02	0.35	851	
3 27	37	1518	19	610	22		0.00					46	1535	32	701		6.98	0.01	351	
3 28	51	1601	22	701	50		0.00			2.07		55	1621	33	701		6.72	0.01	248	
3 29	67	1536	50	802	57		0.06					63	1536	41	700		8.77	0.67	1114	
3 30	62	2258	46	657	46		1.22			3.39		62	1255	50	700		3.86	0.42	1136	
3 31	46	709	33	1628	41		0.91	0.2	0	4.16		50	703	38	2022		8.29	0.15	1232	
Average	48		27		33	Total	3.87	10.3				50		35			4.35	0.15		
						Greatest	1.22	5.8												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	April 2014	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						
4 1	64	1601	34	555	37	0.00			2.62		66	1554	38	708		6.82	0.01	306	
4 2	66	1501	37	700	41	0.00			2.55		70	1533	42	703		1.53	0.01	603	
4 3	64	1414	41	700	51	0.00			2.43		64	1713	43	702		1.06	0.01	1557	
4 4	68	1414	47	553	48	T			2.32		70	1425	49	658		2.38	0.01	1528	
4 5	59	1614	44	618	48	0.02					60	1625	48	645		3.30	0.30	647	
4 6	58	1407	29	600	33	0.00			2.08		69	1413	38	638		6.33	0.09	700	
4 7	60	1344	33	700	42	0.00			1.94		72	1448	39	701		1.80	0.03	614	
4 8	57	648	39	956	57	0.42			2.39		54	700	42	914		3.11	0.26	828	
4 9	65	1417	36	500	45	T			2.26		70	1455	42	625		4.19	0.01	659	
4 10	66	1454	35	555	40	0.00			2.07		71	1457	41	638		3.90	0.01	708	
4 11	70	1456	40	700	61	0.00			1.78		74	1434	41	702		8.30	0.01	704	
4 12	80	1609	52	516	57	0.00					77	1517	51	700		4.41	0.01	730	
4 13	74	1224	48	554	53	0.00			1.40		82	1417	50	639		2.73	0.01	540	
4 14	84	1515	53	700	65	0.00			1.15		82	1513	51	703		8.54	0.01	515	
4 15	78	1317	65	700	66	0.01			0.98		77	1326	59	700		9.17	0.22	650	
4 16	71	1236	31	527	33	1.48			2.34		69	1304	33	601		10.83	0.29	1323	
4 17	49	1537	29	500	37	0.00			2.22		63	1546	34	701		4.49	0.01	615	
4 18	53	1402	37	701	39	0.00			2.06		66	1457	39	745		3.68	0.01	227	
4 19	53	1503	39	553	42	0.00					63	1538	40	700		0.93	0.01	635	
4 20	68	1407	42	451	49	0.00					74	1437	44	701		1.62	0.01	717	
4 21	62	1517	33	426	42	0.00			1.72		74	1444	39	640		3.49	0.01	400	
4 22	68	1602	42	701	51	0.00			1.55		80	1435	40	700		1.17	0.01	213	
4 23	77	1158	49	552	50	0.02			1.44		76	1234	46	629		4.04	0.24	1313	
4 24	60	1453	41	549	46	0.00			1.25		70	1451	39	648		8.10	0.01	625	
4 25	64	1510	39	319	51	0.00			1.07		76	1512	39	728		2.69	0.01	354	
4 26	64	1336	50	523	54	0.41					67	1341	44	700		5.67	0.09	1822	
4 27	76	1611	45	540	50	0.00					79	1418	45	623		6.45	0.04	1935	
4 28	67	1704	43	155	51	0.00			0.91		80	1442	45	701		2.64	0.01	728	
4 29	60	1227	46	524	47	0.27			1.12		66	1322	47	626		2.72	0.17	1719	
4 30	53	659	47	704	53	2.00			3.13		51	1357	47	701		5.37	0.25	1028	
Average	65		42		48	Total	4.63	0.0			70		43			4.38	0.07		
						Greatest	2.00	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	May 2014	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	2237	53	700	60		2.06			O.F.	2.22	64	219	50	712		3.79	0.23	1318
5 2	77	1329	49	602	55		0.02					86	1342	54	622		3.27	0.10	705
5 3	70	1506	50	452	54		0.00					77	1353	55	637		2.30	0.01	2308
5 4	73	1422	49	505	59		T			2.12		80	1459	52	608		2.51	0.01	636
5 5	76	1415	43	511	51		0.00			1.89		75	1600	44	610		7.50	0.01	418
5 6	66	1259	48	2205	52		0.27			2.04		75	1420	45	700		2.11	0.03	1854
5 7	73	1701	49	542	57		0.00			1.87		85	1536	52	611		1.13	0.02	730
5 8	63	847	53	1243	58		0.14			1.94		66	1624	53	701		1.16	0.31	1127
5 9	86	1507	57	703	58		0.00			1.80		91	1510	57	700		1.20	0.01	738
5 10	71	26	58	701	70		0.00					82	1548	62	714		1.70	0.01	758
5 11	77	951	59	529	66		0.03					77	1121	60	600		3.89	0.46	1301
5 12	81	1704	60	412	66		T			1.42		92	1458	61	553		1.94	0.01	442
5 13	87	1617	64	427	72		0.01			1.22	?	93	1250	62	701	water + not properly recorded	2.23	0.01	513
5 14	89	1225	58	344	59		0.00			3.17		97	1219	62	653		2.30	0.01	818
5 15	68	643	58	709	67		1.35			3.11		69	1655	62	724		1.00	0.01	517
5 16	82	1222	54	657	54		0.30			4.28	3.01	84	1356	63	659		9.62	0.05	100
5 17	72	1528	48	516	56		0.00			3.16		81	1608	56	550		2.22	0.20	1031
5 18	68	1335	50	521	53		0.00					79	1427	55	645		1.70	0.01	607
5 19	68	1358	41	431	54		0.00			2.81		80	1439	50	600		2.16	0.03	521
5 20	73	1406	48	509	57		0.00			2.63		82	1423	51	702		1.55	0.01	704
5 21	78	1515	57	700	62		0.00					85	1522	55	701		0.96	0.01	507
5 22	77	1532	61	701	66		0.48			2.84		83	1603	63	701		0.87	0.27	1757
5 23	87	1509	56	528	63		0.00			2.60		93	1500	59	604		2.69	0.04	701
5 24	77	1544	54	342	60		0.00					83	1413	54	554		4.99	0.01	709
5 25	75	1720	53	522	63		0.00					86	1435	55	701		1.96	0.01	532
5 26	82	1543	57	507	67		0.00					90	1613	60	700		0.79	0.01	510
5 27	87	1408	63	525	71		0.00			1.86		93	1412	62	701		1.40	0.01	559
5 28	90	1331	65	504	69		0.61			2.21		95	1427	67	527		2.51	0.53	1748
5 29	84	1429	55	630	55		0.10			2.18		89	1604	60	658		2.59	0.42	1318
5 30	58	1411	55	706	57		0.33			2.50		62	1513	58	520		0.76	0.24	1150
5 31	73	1631	54	520	64		0.00					81	1634	58	700		1.17	0.01	537
Average	76		54		60	Total	5.70	0.0				82		57			2.45	0.10	
						Greatest	2.06	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	June 2014	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	78	1526	50	458	61	0.00					87	1526	58	603		3.13	0.01	606
6 2	76	1434	51	510	61	0.00			2.01		90	1521	57	556		1.20	0.01	1727
6 3	81	1557	61	700	68	0.00			1.82		88	1526	58	700		3.04	0.01	815
6 4	87	1201	65	347	74	0.07			1.77		91	1237	65	700		0.90	0.37	1435
6 5	88	1337	65	700	65	0.32			2.01		98	1345	70	700		1.42	0.05	2100
6 6	78	1512	55	509	65	0.00					87	1450	59	553		3.35	0.01	359
6 7	78	1607	54	520	68	0.00					93	1507	60	548		1.60	0.01	548
6 8	83	1401	58	437	67	0.00					96	1510	61	700		0.83	0.01	525
6 9	84	1416	67	459	70	0.19			1.54		91	1256	64	700		2.90	0.13	511
6 10	83	1606	70	707	75	0.00					91	1609	69	702		1.28	0.01	742
6 11	85	1556	69	337	71	1.43					91	1613	72	657		1.05	0.29	610
6 12	84	1422	68	41	70	0.12					96	1425	71	645		2.78	0.16	806
6 13	76	1233	70	812	72	0.61					80	1622	71	721		2.32	0.27	1302
6 14	85	1303	64	504	68	0.00					92	1305	68	619		1.85	0.38	1338
6 15	75	1436	52	508	64	0.00					89	1520	60	546		4.02	0.03	513
6 16	83	1700	59	351	71	0.00			2.67		93	1546	61	700		0.99	0.02	427
6 17	89	1435	68	443	76	0.00			2.49		98	1446	67	700		0.98	0.01	114
6 18	95	1438	71	417	80	0.00			2.27		102	1509	74	700		1.38	0.01	353
6 19	93	1424	70	2357	76	0.17			2.13		99	1512	74	616		2.17	0.55	2355
6 20	85	1422	64	515	66	T			2.02		91	1439	68	600		1.49	0.01	435
6 21	82	1504	66	2153	67	0.00					97	1504	68	640		1.42	0.01	1520
6 22	72	1625	65	348	67	0.07					74	1632	66	544		0.67	0.09	844
6 23	81	1424	59	458	67	0.00			1.63		90	1429	64	539		0.70	0.02	702
6 24	82	1449	62	526	69	0.00			1.36		94	1358	63	536		2.62	0.01	455
6 25	86	1324	68	700	74	0.00			1.11		96	1436	65	700		2.62	0.01	525
6 26	89	1304	70	510	75	0.31			1.20		96	1308	71	540		2.46	0.24	624
6 27	87	1612	66	524	74	0.00			0.97	1.34	97	1504	68	540		2.43	0.03	700
6 28	83	1033	60	511	70	0.00					97	1429	64	536		4.12	0.03	540
6 29	84	1341	60	437	70	0.00			0.88	1.24	95	1403	63	544		2.18	0.02	556
6 30	85	1432	67	501	70	0.00			0.99		95	1500	64	700		1.26	0.01	1837
Average	83		63		70	Total	3.29	0.0			92		66			1.97	0.09	
						Greatest	1.43	0.0										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM July 2014		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					
7 1	86	1349	70	700	75	0.00			0.80	1.52	96	1356	67	701		1.67	0.01	707	
7 2	91	1326	75	409	80	0.00			0.13	1.62	97	1337	72	701		3.15	0.01	436	
7 3	96	1511	70	438	76	0.00			1.38	1.75	100	1248	73	521		1.91	0.02	2226	
7 4	91	1435	69	650	69	0.24					98	1454	71	658		3.56	0.27	1757	
7 5	80	1420	55	524	66	0.00					90	1505	57	548		6.16	0.01	146	
7 6	84	1532	57	155	66	0.00			1.39		95	1528	59	700		1.09	0.01	328	
7 7	87	1418	66	700	73	0.00			1.01		93	1435	62	701		4.17	0.01	710	
7 8	91	1346	73	700	78	0.00			0.67	1.04	96	1357	67	700		5.61	0.01	701	
7 9	93	1436	69	2006	72	0.35			1.07	1.44	98	1418	70	543		5.45	0.06	523	
7 10	87	1330	67	436	71	0.14			1.45		95	1403	69	537		1.26	0.20	1815	
7 11	83	1515	66	507	70	0.21			1.53		90	1542	69	556		0.87	0.36	2050	
7 12	85	1544	67	520	72	0.00					100	1512	70	701		0.72	0.02	617	
7 13	88	1509	71	701	75	0.00			1.10		98	1346	71	545		2.13	0.01	523	
7 14	91	1422	72	434	75	0.00			0.88	1.1	100	1338	72	701		3.48	0.04	2355	
7 15	93	1454	72	519	76	T			0.92	1.3	100	1314	73	539		1.02	0.03	1631	
7 16	90	1353	67	609	70	3.32			4.42		96	1351	71	608		1.07	0.16	1429	
7 17	81	1544	59	155	68	0.00			4.17		90	1543	67	609		1.52	0.05	846	
7 18	82	1554	58	521	68	0.00			3.94		90	1611	66	603		0.95	0.03	532	
7 19	84	1329	65	524	68	0.00					93	1454	67	700		0.72	0.01	701	
7 20	81	1348	67	232	70	0.00					89	1435	71	701		0.87	0.01	2103	
7 21	84	1354	68	2342	72	0.00			3.45		89	1355	72	606		0.68	0.01	11	
7 22	83	1303	67	511	71	0.00			3.25		95	1416	72	546		0.77	0.01	556	
7 23	85	1355	70	435	74	0.00			3.07		91	1558	71	550		1.03	0.01	723	
7 24	92	1343	72	603	73	T			2.84		100	1427	72	700		2.38	0.01	258	
7 25	80	1509	56	532	64	0.00			2.73		86	1513	63	558		1.39	0.01	635	
7 26	85	1534	62	2324	69	0.00					95	1557	64	701		1.25	0.01	832	
7 27	88	1414	69	701	71	0.05					96	1533	68	701		1.78	0.06	418	
7 28	84	1543	70	513	76	0.00			2.13		90	1544	72	717		2.95	0.01	846	
7 29	84	1211	61	500	64	0.00			1.84		91	1313	62	606		4.77	0.01	2108	
7 30	76	1544	52	540	60	0.00			1.66		85	1542	57	603		1.95	0.01	227	
7 31	81	1417	57	437	65	0.00			1.45		91	1425	58	700		1.40	0.01	1445	
Average	86		66		71	Total	4.31	0.0			94		68			2.18	0.05		
						Greatest	3.32	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	August 2014		EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION		
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F					watts per sq ft	time occurane	
	maximum	time occurance	minimum	time occurrence	present				INCHES	reading after	maximum	time occurrence	minimum					time occurrence
8 1	87	1259	65	700	72	0.00			1.24		92	1305	62	700	2.20	0.01	2218	
8 2	79	1354	64	236	66	0.30					83	1412	66	600	0.83	0.05	2207	
8 3	80	1441	66	714	70	0.02			1.39		89	1509	67	700	1.02	0.01	325	
8 4	82	1535	66	541	69	0.09			1.36		89	1546	68	609	0.90	0.01	2235	
8 5	86	1449	65	512	71	0.00			1.16	1.53	100	1512	68	606	0.75	0.01	153	
8 6	88	1359	65	519	69	0.06			1.49	1.67	100	1435	68	553	1.12	0.04	544	
8 7	83	1442	64	533	69	0.00			1.59		93	1547	68	627	0.99	0.01	243	
8 8	83	1322	58	513	63	0.00			1.37	1.74	93	1501	63	602	1.48	0.01	1246	
8 9	83	1345	61	521	66	0.00					91	1437	63	705	0.90	0.01	604	
8 10	84	1301	63	552	68	0.00					92	1336	65	702	0.80	0.01	917	
8 11	86	1332	58	603	67	0.00			1.22		96	1344	63	620	1.06	0.01	1903	
8 12	83	1452	67	700	71	0.23			1.30		88	1448	64	700	2.26	0.06	108	
8 13	76	1621	68	1453	72	3.45			4.61		76	1803	70	700	1.83	0.08	842	
8 14	84	1435	56	535	62	0.00			4.31		91	1459	63	610	2.81	0.01	421	
8 15	82	1615	53	551	59	0.00			4.12		82	1639	61	617	2.34	0.01	652	
8 16	81	1556	58	602	62	0.00					87	1516	61	700	1.15	0.01	730	
8 17	83	1439	61	2319	67	0.00					90	1514	66	700	0.90	0.01	736	
8 18	87	1233	65	530	67	0.00					88	1636	68	701	1.91	0.01	2316	
8 19	82	1248	67	704	72	0.00			3.38		87	1356	70	701	0.89	0.01	2135	
8 20	84	1411	64	437	69	0.03			3.30		90	1549	70	625	0.92	0.08	1119	
8 21	85	1319	65	546	69	0.07			3.20		91	1500	69	618	1.32	0.07	622	
8 22	89	1359	67	520	71	0.01			3.09		95	1409	70	702	0.63	0.05	712	
8 23	79	1222	68	528	69	0.00					82	1531	70	617	0.66	0.01	1028	
8 24	74	1229	62	556	66	0.18			3.19		77	1438	66	621	0.70	0.18	925	
8 25	79	1542	58	533	64	0.00			3.03		89	1540	65	626	0.91	0.01	646	
8 26	81	1446	58	607	65	0.00			2.85		91	1513	65	624	1.25	0.01	532	
8 27	86	1414	60	541	64	0.00			2.68		94	1544	65	703	0.83	0.01	607	
8 28	89	1455	64	700	74	0.00					96	1509	67	700	0.84	0.01	215	
8 29	84	1220	53	604	59	0.00			2.25		94	1424	60	626	2.17	0.01	551	
8 30	81	1333	59	700	66	0.00					91	1441	60	701	0.85	0.01	1348	
8 31	84	1448	66	711	74	0.00					87	1449	66	702	1.39	0.01	300	
Average	83		62		67	Total	4.44	0.0			90		66		1.25	0.03		
						Greatest	3.45	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	September 2014	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					
9 1	92	1402	72	401	74	1.10					95	1409	72	700		3.93	0.05	1935	
9 2	91	1333	71	534	75	0.13			2.83		99	1409	74	702		0.93	0.21	1538	
9 3	93	1346	72	436	73	0.15			2.29		98	1440	75	649		1.55	0.17	1906	
9 4	85	1519	64	245	68	0.00			2.63		92	1547	69	623		0.67	0.03	701	
9 5	87	1409	68	700	72	0.00			2.48		94	1502	69	702		1.66	0.02	627	
9 6	91	1433	72	612	75	0.00					98	1445	72	700		1.70	0.01	701	
9 7	92	1434	66	617	67	0.03					99	1428	70	655		3.05	0.12	1929	
9 8	79	1453	64	229	66	0.00			1.97		89	1512	67	655		1.98	0.01	1350	
9 9	74	1253	66	701	67	0.00			1.91		74	1340	66	608		1.36	0.01	1934	
9 10	77	1400	65	20	67	0.00			1.84		79	1547	66	702		1.28	0.01	1512	
9 11	82	1542	67	700	71	0.00			1.73		89	1544	67	600		1.67	0.01	2039	
9 12	89	1535	63	623	64	0.00			1.55		95	1413	65	655		3.00	0.01	741	
9 13	78	1248	61	308	63	0.00					90	1500	64	643		1.59	0.01	1151	
9 14	70	1028	48	618	52	0.27					73	1639	53	643		1.19	0.22	1224	
9 15	72	1417	50	540	53	0.00			1.54		82	1520	54	701		1.03	0.01	704	
9 16	76	1511	53	700	61	0.00			1.43		85	1508	56	706		1.08	0.01	632	
9 17	77	1332	50	429	53	0.00			1.29		85	1516	55	640		2.03	0.01	635	
9 18	77	1517	53	700	58	0.00			1.19		83	1531	55	700		0.74	0.01	522	
9 19	75	1536	53	550	55	0.02			1.15	1.52	75	1556	56	643		0.66	0.01	813	
9 20	76	1441	55	554	58	0.00					83	1414	57	702		1.18	0.01	604	
9 21	82	1449	55	606	57	0.00			1.28	1.66	87	1504	59	701		1.17	0.01	637	
9 22	84	1438	57	700	63	0.00			1.52		87	1505	59	649		1.83	0.02	737	
9 23	73	1341	44	636	45	0.00			1.35		80	1416	50	648		3.59	0.01	1926	
9 24	71	1536	45	700	50	0.00			1.24		78	1458	49	705		0.78	0.01	658	
9 25	70	1331	50	700	60	0.84			2.05		68	1456	52	700		4.95	0.02	701	
9 26	65	1523	54	553	56	0.03			2.06		67	1524	57	642		5.00	0.26	1027	
9 27	75	1413	50	608	53	0.00					81	1506	56	647		1.60	0.06	659	
9 28	81	1402	51	638	53	0.00			1.84		86	1435	56	701		0.83	0.07	700	
9 29	82	1451	53	700	59	0.00			1.74		85	1505	57	701		0.67	0.05	702	
9 30	72	1423	59	701	63	0.00			1.72		72	1548	62	700		0.86	0.01	1620	
Average	80		58		62	Total	2.57	0.0			85		61			1.78	0.05		
						Greatest	1.10	0.0											

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD				7:00 AM		October 2014		EASTERN						
DATE	TEMPERATURE F						RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE WIND SPEED MPH	SOLAR watts per sq ft	RADIATION time occurene	
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance					
10 1	79	1338	62	1936	62		0.07			1.67		85	1427	64	700		0.75	0.03	2221	
10 2	76	1509	54	446	57		0.00			1.60		80	1512	58	623		0.71	0.04	720	
10 3	74	1314	55	110	59		0.00					77	1455	59	700		0.71	0.01	727	
10 4	70	1455	59	700	65		0.35					71	1504	59	702		4.95	0.05	2042	
10 5	70	1204	36	539	38		0.00					75	1308	41	657		4.33	0.01	610	
10 6	65	1358	38	700	44		0.00			1.42		69	1428	41	701		1.93	0.08	642	
10 7	74	1349	45	700	58		0.02			1.30		74	1436	44	706		6.82	0.01	700	
10 8	73	1541	57	630	58		0.22			1.50		69	1551	55	734		4.28	0.11	1924	
10 9	77	1357	44	613	46		0.00			1.37		79	1412	50	657		1.76	0.01	643	
10 10	73	1312	46	700	56		0.00			1.24		74	1356	50	702		1.50	0.01	322	
10 11	60	936	52	632	52		0.30					62	1526	54	658		0.79	0.30	1302	
10 12	55	1635	45	644	46		0.23					57	1654	49	657		1.10	0.09	1007	
10 13	65	1448	46	700	59		0.00			1.70		68	1454	49	701		1.13	0.02	658	
10 14	67	1640	59	726	66		0.12			1.81		66	1728	58	709		0.59	0.15	1056	
10 15	79	1418	66	708	72		0.00			1.72		79	1509	62	701		8.55	0.01	828	
10 16	77	1031	57	212	58		1.19			2.86		76	1201	60	656		2.80	0.15	1236	
10 17	67	1613	50	629	50		0.00			2.80		66	1604	54	657		1.08	0.01	400	
10 18	74	1338	50	700	54		0.00					75	1432	54	711		2.81	0.01	800	
10 19	72	1305	50	619	50		0.00					72	1506	48	641		4.97	0.01	2032	
10 20	60	1505	34	615	35		0.00			2.40		65	1454	41	659		3.93	0.01	415	
10 21	69	1425	35	700	48		0.01			2.29		67	1508	41	701		3.36	0.01	701	
10 22	72	1348	48	700	52		0.36			2.56		73	1442	51	753		2.36	0.09	1848	
10 23	54	2026	51	236	52		0.47			2.98		55	1522	49	634		8.88	0.37	1318	
10 24	62	1327	51	606	52		0.00			2.87		61	1408	49	658		5.24	0.01	2216	
10 25	69	1425	40	613	41		0.00					68	1454	46	700		3.10	0.01	557	
10 26	72	1520	41	702	56		0.00					69	1458	46	716		3.34	0.01	2316	
10 27	70	1348	35	648	36		0.00			2.50		68	1434	43	656		3.00	0.01	555	
10 28	72	1407	36	705	58		0.00			2.38		68	1507	42	725		1.41	0.01	720	
10 29	82	1356	57	700	61		0.00			2.26		75	1504	51	705		4.45	0.01	710	
10 30	68	1046	39	443	44		0.00			2.15		69	1216	45	700		2.26	0.04	1451	
10 31	60	1355	37	401	38		0.00			2.03		64	1400	43	700		2.72	0.01	402	
Average	70		48		52	Total	3.34	0.0				70		50			3.08	0.06		
						Greatest	1.19	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM	November 2014	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				
11 1	55	1225	37	707	48	0.00					58	1441	43	743		2.52	0.01	715
11 2	51	1637	40	557	42	0.00					51	1459	40	652		12.85	0.01	545
11 3	50	1500	39	504	43	0.01			1.66		53	1441	38	651		8.84	0.01	1159
11 4	63	1506	38	700	38	0.00			1.58		56	1517	38	704		2.36	0.01	712
11 5	72	1330	38	702	51	0.00			1.45		59	1510	40	718		2.61	0.01	1341
11 6	67	1241	51	736	51	0.27			1.69		60	1542	47	709		0.67	0.02	310
11 7	67	1413	47	656	47	0.61			2.19		64	1412	46	658		2.96	0.36	1457
11 8	56	1045	28	654	28	0.00					59	1333	39	658		5.32	0.01	1720
11 9	53	1438	28	709	36	0.00					55	1439	39	707		2.61	0.01	723
11 10	60	1424	32	638	32	0.00			1.95		58	1525	39	658		1.13	0.01	446
11 11	64	1500	32	713	38	0.00			1.89		62	1508	39	701		1.61	0.01	734
11 12	72	1428	38	704	59	0.00			1.85		68	1526	41	724		1.06	0.03	37
11 13	67	1059	37	506	38	0.00			1.70		70	1338	39	611		4.72	0.02	729
11 14	45	1358	32	656	32	0.10			1.73		46	1354	39	711		3.53	0.02	2048
11 15	42	1248	28	623	28	0.00					49	1405	36	653		4.61	0.01	435
11 16	46	1348	25	2242	35	0.00					48	1459	36	705		1.86	0.01	343
11 17	46	1420	35	704	41	0.19			1.88		44	1432	37	754		1.88	0.01	142
11 18	49	1606	24	636	25	0.48					47	1911	37	658		5.81	0.17	1017
11 19	34	1317	17	520	18	0.00					43	1400	33	623		6.26	0.01	543
11 20	37	1	17	723	33	0.00					42	1351	33	703		7.89	0.01	700
11 21	54	1417	28	652	28	0.00			1.96		44	1509	33	710		7.46	0.01	1132
11 22	38	1359	16	646	16	0.00			1.89		44	1428	33	649		3.54	0.01	805
11 23	50	1434	16	701	39	0.00					44	1526	33	707		5.10	0.04	1242
11 24	66	554	37	740	65	0.30			2.16		58	656	37	715		5.35	0.10	2331
11 25	73	1504	55	655	55	0.00			2.04		68	1444	54	658		9.69	0.01	1100
11 26	55	703	42	700	42	0.30			2.30		54	700	44	659		1.70	0.01	1828
11 27	42	700	32	700	32	0.75	0.1	0			44	707	38	648		3.83	0.10	1408
11 28	45	1435	31	602	31	0.00					45	1525	37	659		2.96	0.01	919
11 29	39	1240	24	2253	28	0.00					43	1240	36	655		3.25	0.01	309
11 30	48	1445	28	700	38	0.00					46	1513	36	716		4.18	0.01	955
Average	54		32		38	Total	3.01	0.1			53		39			4.27	0.03	
						Greatest	0.75	0.1										

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD		7:00 AM		December 2014		EASTERN								
DATE	TEMPERATURE F						RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F				REMARKS	AVERAGE WIND SPEED MPH	SOLAR watts per sq ft	RADIATION time occurene	
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance					
12 1	65	1449	38	710	52		0.00				55	1613	39	700		6.74	0.01	734		
12 2	73	1455	36	651	36		0.27			3.15		62	1605	42	656		5.38	0.11	1727	
12 3	40	656	34	920	40		0.43					42	701	39	606		1.38	0.06	1348	
12 4	52	1549	28	658	29		0.00			3.06		47	1747	39	657		4.28	0.03	810	
12 5	44	1148	28	732	39		0.00					43	1427	39	711		0.89	0.01	2214	
12 6	43	650	38	1159	43		0.01			3.61		42	1419	39	721		0.90	0.02	1605	
12 7	51	1351	35	658	35		0.47					47	2045	39	550		6.90	0.16	1337	
12 8	47	1416	30	430	31		0.00					48	1435	37	657		7.27	0.01	608	
12 9	35	1532	31	702	34		0.31					41	1121	37	652		6.55	0.01	2308	
12 10	44	2314	34	700	40		0.16			4.54		43	1257	36	746		8.54	0.03	1122	
12 11	49	1223	34	523	34		0.90			4.90		50	1339	38	652		9.32	0.01	434	
12 12	41	1250	33	1436	38		0.00			4.88		44	1246	38	653		6.04	0.01	743	
12 13	43	1436	25	658	25		0.00					45	1452	37	659		4.73	0.01	600	
12 14	46	1413	25	723	29		0.00					46	1510	37	723		3.46	0.01	707	
12 15	52	1421	28	740	38		0.00					44	2104	38	742		3.21	0.01	737	
12 16	59	1428	31	318	33		0.00			4.21		53	1537	39	658		1.22	0.01	305	
12 17	47	1056	32	742	37		0.35			4.57		44	13	39	709		1.47	0.05	1143	
12 18	55	1305	33	658	34		0.00			4.47	2.34	52	1458	38	659		6.01	0.01	219	
12 19	41	1415	32	742	34		0.00					45	1440	36	908		5.64	0.01	744	
12 20	40	1418	21	622	22		0.00					41	1420	34	657		3.81	0.01	608	
12 21	40	1304	22	715	31		0.00					42	1335	34	729		0.87	0.01	1027	
12 22	44	1510	23	58	29		0.00					45	1527	35	743		1.17	0.01	243	
12 23	39	335	29	700	39		0.20					41	1350	35	728		2.30	0.24	1425	
12 24	47	1520	39	700	46		0.48					45	1523	38	701		0.53	0.01	2204	
12 25	63	35	45	702	48		0.42					54	251	45	719		3.48	0.01	825	
12 26	54	1249	28	659	28		0.00					55	1404	39	513		4.87	0.01	305	
12 27	53	1312	27	726	31		0.00					51	1520	38	653		1.75	0.01	825	
12 28	58	1356	30	719	51		0.00					51	1546	38	737		1.51	0.01	740	
12 29	59	1257	40	658	40		0.15			3.47	1.91	51	1530	43	705		1.45	0.02	1703	
12 30	43	1404	35	659	35		0.00					45	1453	38	620		2.24	0.01	435	
12 31	42	1411	19	416	19		0.00					46	1452	34	656		2.86	0.01	2108	
Average	49		31		35	Total	4.15	0.0				47		38			3.77	0.03		
						Greatest	0.90	0.0												

S. No. 18-9070-4