

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		January 2008		EASTERN				REMARKS	AVERAGE	SOLAR RADIATION		
DATE	TEMPERATURE F						RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F					WIND SPEED MPH	watts per sq ft	time occurene
	maximum	time occurance	minimum	time occurance	present					INCHES	reading after	maximum	time occurance	minimum	time occurance				
1 1	50	1553	31	751	42						52	1503	38	802		4.47	31.61	1220	
1 2	53	1301	27	658	27						51	1446	33	657		8.80	45.77	1115	
1 3	35	1328	19	630	20						41	1512	31	444		9.42	38.70	1150	
1 4	31	1458	13	610	13						39	1545	31	719		3.39	47.03	1241	
1 5	42	1450	13	705	20						42	1456	31	721		2.41	34.32	1231	
1 6	45	1331	20	741	36		0.09				41	1357	32	731		0.83	31.48	1056	
1 7	60	1525	36	700	54						48	1515	34	737		1.39	37.91	1141	
1 8	73	1535	51	508	52						62	1633	41	711		3.91	36.79	1046	
1 9	72	1406	51	724	63						67	1518	50	811		10.72	28.58	1259	
1 10	67	1030	32	700	32		T				64	1352	38	657		5.48	29.50	1310	
1 11	50	1158	31	756	42		0.26				46	1436	38	721		1.06	28.84	1150	
1 12	59	1516	38	651	39		0.06				52	1723	40	658		1.95	28.28	1435	
1 13	53	1434	27	654	27						55	1500	38	648		1.80	30.95	1156	
1 14	47	1118	27	728	33		0.09				46	1510	38	747		1.64	38.21	1215	
1 15	45	1126	25	631	26						45	1449	34	657		5.45	39.42	1158	
1 16	36	1002	24	753	29		T				40	1425	32	658		5.71	31.25	1405	
1 17	42	1505	28	206	31						43	1509	32	756		2.47	36.33	1256	
1 18	35	1012	30	717	32		0.83	2.2	1		37	1500	34	655		0.99	4.21	903	
1 19	48	1519	30	2230	31						47	1604	33	749		1.92	45.69	1159	
1 20	38	1206	21	700	21						42	1439	34	659		3.48	28.82	1056	
1 21	25	1517	11	158	16						45	1513	32	656		5.79	34.54	1235	
1 22	31	1521	15	723	24						41	1444	31	657		3.36	32.64	1236	
1 23	40	2219	23	702	29		0.01				36	1555	31	705		5.25	20.80	1021	
1 24	46	1433	24	2307	27						46	1441	32	808		2.36	32.46	1225	
1 25	39	1521	19	639	20						42	1534	31	650		5.58	31.01	1408	
1 26	34	1553	19	728	22						43	1427	31	725		3.20	33.27	1245	
1 27	38	1421	22	700	29						43	1438	32	745		1.85	45.19	1307	
1 28	42	1439	25	250	30						46	1441	33	745		2.66	32.09	1249	
1 29	45	1521	25	230	32						45	1527	34	741		2.04	40.70	1224	
1 30	55	104	32	703	52		0.06				45	1602	35	819		4.54	30.43	1234	
1 31	52	719	23	552	25						55	1449	36	658		6.52	34.73	1240	
Average	46		26		31	Total	1.40	2.2			47		35			3.88	33.60		
						Greatest	0.83	2.2											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		February 2008		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	
2 1	44	1408	24	724	35		0.30					51	1504	36	740		3.20	34.16	1212	
2 2	53	1541	30	654	31		1.48					46	1647	37	823		4.97	8.93	1629	
2 3	53	1603	27	444	29		0.00					55	1544	37	753		2.15	40.98	1216	
2 4	58	1418	28	720	35		0.00					56	1543	38	746		1.25	36.18	1238	
2 5	52	1513	35	709	37		0.00					50	1615	41	732		1.16	46.23	1231	
2 6	67	652	37	700	66		0.00					55	700	42	711		4.95	35.05	1148	
2 7	73	1144	46	654	47		0.21					65	1421	49	659		11.85	35.46	1141	
2 8	52	1347	29	359	34		0.00					60	1447	38	652		4.68	45.79	1225	
2 9	53	1455	29	338	38		0.00					55	1546	38	658		1.20	37.86	1113	
2 10	58	1551	37	702	43		0.00					57	1554	38	715		4.55	45.46	1206	
2 11	49	1349	13	653	13		0.00					51	1438	31	603		10.28	47.89	1316	
2 12	30	1511	13	712	22		0.00					44	1441	31	715		3.91	38.82	1246	
2 13	32	658	22	704	32		0.81					37	1455	33	806		1.98	14.86	1229	
2 14	40	1502	25	652	26		0.30					38	1632	33	655		6.61	12.53	1319	
2 15	42	1602	25	703	30		0.00					50	1532	32	730		4.26	38.79	1230	
2 16	58	1609	29	651	29		0.00					51	1638	37	722		5.32	42.88	1215	
2 17	49	1513	24	151	33		0.00					58	1537	38	659		2.55	38.27	1215	
2 18	65	455	33	705	64		0.00					55	658	38	721		7.80	45.73	1225	
2 19	73	1312	31	307	36		0.16					71	1410	38	652		6.92	47.66	1339	
2 20	50	1448	21	411	24		0.00					51	1512	35	700		6.90	57.45	1243	
2 21	34	1156	16	650	16		0.08	2.8	2			41	1153	33	700		2.45	19.82	1136	
2 22	35	1523	16	711	30		0.27		T			44	1532	33	732		3.09	44.42	1234	
2 23	34	546	30	708	33		0.00					38	1546	34	823		0.53	8.37	1513	
2 24	38	1540	24	654	25		0.00					40	1540	35	659		2.54	14.47	949	
2 25	46	1439	25	704	35		0.00					52	1521	35	712		1.75	47.14	1144	
2 26	52	1434	31	2249	39		0.06					54	1604	39	714		2.15	51.29	1254	
2 27	53	1411	35	656	35		0.03					46	1754	38	645		5.11	11.90	1202	
2 28	41	1223	19	627	19		0.00					47	1459	32	659		8.93	55.96	1254	
2 29	35	1633	16	613	16		0.00					44	1435	32	711		4.82	64.48	1224	
Average	49		27		33	Total	3.70	2.8				50		36			4.41	36.86		
						Greatest	1.48	2.8												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		March 2008		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				REMARKS	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	48	249	16	710	44	0.00					47	1520	34	715		8.37	60.69	1219
3 2	49	1248	23	556	25	0.00					56	1343	36	700		6.91	58.00	1235
3 3	53	1550	25	703	39	0.00			1.96		58	1600	36	715		2.50	45.21	1137
3 4	68	1555	39	703	58	0.00			1.78		68	1518	38	701		11.61	42.05	1231
3 5	72	1512	49	700	49	0.40			2.06		69	1520	53	658		12.43	32.91	929
3 6	57	1502	28	644	29	0.00			1.90		68	1505	38	649		5.48	59.38	1156
3 7	56	1412	28	705	38	0.00			1.80		67	1516	38	716		1.62	46.01	1230
3 8	48	1832	38	702	46	0.80					47	330	39	703		2.42	19.09	1105
3 9	65	1252	27	617	28	0.15					61	1532	33	657		10.05	52.83	1308
3 10	45	1623	25	451	27	0.00			2.56		53	1622	32	702		5.67	49.29	1227
3 11	51	1241	27	700	34	0.00			2.48		55	1319	36	703		2.93	61.16	1217
3 12	56	1519	33	716	43	0.00					60	1536	39	714		3.02	58.76	1145
3 13	57	1429	27	614	28	0.00			2.23		64	1455	38	653		5.41	54.62	1219
3 14	62	1550	28	703	41	0.00			2.10		65	1502	38	701		3.66	44.82	1229
3 15	66	1401	41	700	49	0.00					74	1503	43	700		3.38	47.13	1149
3 16	64	1507	43	607	44	0.22					74	1531	47	649		3.04	47.37	1033
3 17	51	1507	31	538	33	0.18			2.07		61	1524	36	641		6.73	69.04	1252
3 18	52	1508	33	701	42	0.00					65	1541	36	749		2.66	49.09	1228
3 19	53	1316	42	700	51	0.00			1.86		56	1538	43	712		5.32	48.78	1122
3 20	69	1237	42	621	43	0.48			2.28		61	12	45	659		9.97	32.29	1051
3 21	54	1542	38	423	39	0.00			2.01		63	1415	37	613		10.61	50.84	1223
3 22	57	1533	37	2243	42	0.00					65	1500	37	700		4.23	53.37	1225
3 23	49	1406	29	620	32	0.00					62	1427	37	651		3.90	71.55	1216
3 24	51	1653	27	159	31	0.00			1.65		67	1532	37	700		2.11	56.02	1227
3 25	50	1347	28	628	30	0.00			1.56		59	1536	36	655		2.61	64.75	1145
3 26	54	1423	30	700	49	0.00			1.35		66	1454	36	740		8.88	52.13	1234
3 27	70	1537	43	428	48	0.00			1.17		70	1504	40	702		4.86	61.76	1256
3 28	58	658	41	356	58	0.01			1.15	1.58	58	1520	44	546		1.92	43.66	1216
3 29	73	1352	33	618	37	0.00					71	1523	38	620		8.04	50.67	1024
3 30	51	1456	31	551	34	0.00					66	1454	38	626		3.07	58.37	1056
3 31	49	1314	34	700	41	0.00			1.18		58	1339	39	711		4.24	72.38	1123
Average	57		33		40	Total	2.24	0.0			62		39			5.41	52.07	
						Greatest	0.80	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		April 2008		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	62	620	41	702	61	0.03			1.20		57	658	41	720	4.09	24.62	1300		
4 2	76	1525	42	612	43	0.04			1.02		78	1535	42	637	12.19	76.29	1157		
4 3	56	1532	30	315	40	0.00			0.87		71	1510	39	431	4.24	57.85	1247		
4 4	50	1008	37	1710	42	0.71			1.53		51	1249	38	741	3.33	43.44	947		
4 5	64	1520	42	703	55	0.00					63	1655	42	700	3.82	53.33	1341		
4 6	65	1458	44	335	45	0.84					76	1516	47	658	5.15	67.74	1356		
4 7	48	1016	41	605	42	0.04			2.21		51	1644	43	617	4.12	15.82	1012		
4 8	46	1429	41	725	43	0.01			2.19		51	1518	43	703	1.85	18.15	1408		
4 9	51	1345	42	37	44	0.00			2.12		57	1614	45	701	1.85	37.18	1007		
4 10	68	1445	43	706	51	0.00					77	1505	47	708	1.65	76.66	1133		
4 11	75	1539	51	714	55	0.00			1.92		86	1528	54	706	2.01	60.63	1017		
4 12	82	1556	55	700	70	0.00					85	1425	56	704	7.51	57.50	1116		
4 13	75	917	45	619	49	0.59					73	1209	48	628	3.92	56.38	1149		
4 14	56	1005	37	537	41	0.00			2.06		60	1129	41	639	3.71	66.44	944		
4 15	56	1449	38	546	43	0.00			1.88		74	1449	39	642	3.84	59.38	1344		
4 16	61	1546	32	537	39	0.00			1.72		75	1526	39	700	3.52	55.07	1207		
4 17	67	1331	35	543	43	0.00			1.53		80	1427	41	700	2.12	54.32	1240		
4 18	78	1617	43	507	54	0.00			1.35		87	1526	43	701	1.09	54.72	1224		
4 19	86	1506	47	536	52	0.00					91	1506	49	703	1.58	53.79	1225		
4 20	83	1438	52	700	61	0.33					83	1441	53	701	5.17	58.18	1215		
4 21	70	1300	58	700	58	2.40			3.46		69	1258	58	700	4.73	35.88	1241		
4 22	60	1552	53	601	53	0.72			4.20		90	1147	55	607	5.63	42.46	1542		
4 23	72	1456	53	213	57	0.00			4.02		80	1513	55	701	3.85	78.80	1212		
4 24	76	1356	54	555	61	0.00			3.88		86	1515	59	700	1.54	77.77	1108		
4 25	79	1500	50	451	54	0.00			3.66		88	1516	58	639	2.18	65.51	1142		
4 26	79	1509	54	700	63	0.00					85	1508	59	700	1.94	64.10	1248		
4 27	81	1206	52	521	52	0.20					91	1446	57	652	4.98	57.89	1236		
4 28	55	1718	50	38	52	0.13			3.61		59	1614	53	514	3.13	14.11	1111		
4 29	64	1328	46	530	49	0.90			4.45		60	1342	52	555	1.61	13.18	644		
4 30	62	1458	36	533	45	0.00			4.26		71	1547	46	550	4.26	85.67	1126		
Average	67		45		51	Total	6.94	0.0			73		48		3.69	52.76			
						Greatest	2.40	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM	May 2008	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	60	1508	37	430	46		0.00			4.12		68	1527	47	701		1.68	78.98	1203			
5 2	69	1636	46	700	62		0.02					70	1659	48	704		4.58	71.18	950			
5 3	84	1421	56	505	60		0.00					85	1456	56	700		4.39	67.27	1301			
5 4	83	1332	57	603	60		0.00					88	1433	61	627		6.41	67.37	1242			
5 5	72	1507	44	517	55		0.00			3.33		86	1511	54	600		4.16	56.99	1219			
5 6	70	1336	47	522	53		0.00			3.15		85	1511	55	700		3.18	65.79	1321			
5 7	78	1325	49	357	59		0.00			2.95		84	1400	56	700		2.91	63.03	1326			
5 8	82	1430	59	700	65		0.00			2.63		87	1421	57	702		9.95	56.36	1233			
5 9	71	1356	63	112	64		4.15			O.F.	2.08	72	1419	63	701		5.40	35.30	1329			
5 10	65	720	48	132	50		0.50					66	1107	52	449		3.32	23.18	1212			
5 11	64	1651	43	437	49		0.00					72	1614	50	541		2.08	98.68	1306			
5 12	63	1229	45	429	48		5.15			O.F.		64	1345	47	542		10.23	60.73	1213			
5 13	50	659	42	519	50		0.32			O.F.	1.99	52	1545	46	511		5.48	20.77	1455			
5 14	72	1547	43	501	52		0.00			1.82		85	1457	47	700		2.98	68.39	1206			
5 15	74	1242	52	700	64		0.00			1.68		78	1246	53	700		3.42	61.69	1100			
5 16	78	1324	62	535	62		0.95			2.45		89	1404	60	700		3.25	93.38	1112			
5 17	74	1249	47	432	55		0.00					81	1335	49	544		5.70	104.90	1133			
5 18	76	1609	54	533	61		0.00					85	1416	50	700		7.53	72.48	1240			
5 19	67	942	48	337	53		0.10			2.11		69	1714	51	548		5.64	61.06	939			
5 20	67	1523	44	111	50		0.61			2.54		77	1517	52	707		5.02	84.19	1150			
5 21	59	1556	45	206	55		0.00			2.48		63	1557	50	530		3.70	75.54	1345			
5 22	70	1524	45	415	58		0.00			2.36		77	1522	51	609		4.79	82.14	1041			
5 23	69	1603	46	157	55		0.00			2.16		77	1603	49	538		6.06	82.70	1201			
5 24	71	1527	49	526	59		0.00					86	1426	51	700		3.59	62.62	1209			
5 25	74	1539	47	515	59		0.00					83	1500	54	608		3.82	80.65	1310			
5 26	77	1628	52	501	60		0.00					93	1511	55	545		4.53	58.25	1204			
5 27	85	1500	60	700	69		0.00			1.26		94	1430	56	701		7.06	57.31	1227			
5 28	83	1258	56	652	57		T			1.10		86	1504	58	655		5.91	72.94	1255			
5 29	71	1533	45	456	57		T			0.93	1.53	86	1549	50	536		2.90	68.57	1330			
5 30	79	1452	52	453	63		0.00			1.33		94	1515	52	700		2.37	57.43	1206			
5 31	83	1456	62	701	72		0.00			1.72		92	1450	58	700		6.47	71.08	1049			
Average	72		50		57	Total	11.80	0.0				80		53			4.79	67.13				
						Greatest	5.15	0.0														

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		JUNE 2008		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						
6 1	88	1201	64	1328	70	1.19					91	1209	66	507		4.53	72.38	1124		
6 2	85	1351	57	519	63	0.00				1.94		92	1349	59	555		4.08	74.06	1123	
6 3	80	1553	54	453	65	0.00				1.72		94	1437	60	529		2.79	58.33	1219	
6 4	80	1322	65	700	69	1.08				2.60		88	1328	61	700		8.38	73.87	1135	
6 5	86	1302	64	505	70	1.55				3.91		95	1324	66	535		3.64	63.77	935	
6 6	85	1432	66	151	67	0.00						99	1459	67	700		4.52	79.73	1146	
6 7	84	1603	66	705	72	0.00						93	1645	70	704		1.60	83.72	1246	
6 8	97	1433	69	308	75	0.28						104	1521	74	500		2.89	60.25	1125	
6 9	94	1428	71	511	82	0.00						102	1501	75	700		3.55	63.88	1111	
6 10	96	1345	72	511	78	0.00						104	1406	76	541		3.55	61.22	1340	
6 11	97	1325	69	451	73	0.02						104	1424	72	557		4.34	54.17	1211	
6 12	88	1538	62	416	78	0.00						99	1502	68	546		2.89	66.16	1037	
6 13	92	1429	64	505	72	0.00						102	1441	69	551		1.61	60.26	1245	
6 14	88	1503	68	459	74	0.00						99	1356	69	612		4.27	54.55	1211	
6 15	91	1430	69	459	71	0.07						99	1444	70	700		2.16	66.34	1137	
6 16	85	1502	63	445	73	0.00				1.77		97	1443	66	511		2.91	70.99	1100	
6 17	87	1311	61	333	66	0.00				2.40		94	1405	64	541		3.45	77.12	1204	
6 18	77	1342	53	413	63	0.00				2.14		92	1403	59	541		4.54	73.31	1224	
6 19	79	1557	53	447	63	T				1.92		90	1411	59	513		4.21	74.99	1238	
6 20	78	1410	58	504	65	0.00				1.75		93	1503	61	702		1.75	84.19	1146	
6 21	83	1438	62	506	67	0.14						95	1453	63	700		4.18	67.18	1250	
6 22	86	1512	64	446	69	0.00				1.45		101	1453	66	700		3.06	56.84	1249	
6 23	86	1413	65	1915	68	0.69				1.93		101	1427	67	535		3.67	69.50	1316	
6 24	87	1450	58	513	65	0.08				1.79		99	1449	62	535		2.21	69.50	1240	
6 25	82	1607	59	450	68	0.00				1.53		92	1454	63	532		3.21	72.76	1327	
6 26	86	1400	68	700	74	0.00				1.27		95	1416	65	701		2.93	63.67	1232	
6 27	92	1416	70	517	77	0.00				1.08		97	1419	69	700		3.28	74.61	1101	
6 28	93	1135	67	433	74	1.72						98	1153	69	534		2.68	64.59	1204	
6 29	90	1543	69	514	76	0.22				2.41		97	1543	70	700		3.32	82.61	1143	
6 30	88	1422	69	518	74	0.00				2.12		96	1428	69	534		5.77	80.65	1217	
Average	87		64		71	Total	7.04	0.0				97		67			3.53	69.17		
						Greatest	1.72	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM July 2008		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				
7 1	86	1340	60	515	66	1.12			2.93		95	1345	64	537	1.79	76.57	1203	
7 2	81	1524	63	429	70	0.00			2.70		93	1537	66	700	2.48	84.65	1245	
7 3	84	1404	63	337	71	0.00			2.35		94	1427	64	606	3.83	80.47	1147	
7 4	89	1512	68	145	72	0.00					93	1434	66	700	5.21	56.61	1313	
7 5	86	1422	68	2028	70	0.42					96	1504	70	700	1.55	75.92	1304	
7 6	81	1525	67	511	73	0.00			2.19		89	1539	70	528	1.22	82.61	1202	
7 7	84	1431	70	532	73	0.32			2.39		92	1505	72	700	0.98	69.23	1256	
7 8	83	1217	68	534	71	0.00			2.17		94	1504	69	540	3.70	79.82	1116	
7 9	89	1453	70	452	73	0.00			1.90		100	1455	70	535	5.27	57.05	1311	
7 10	84	1605	71	518	73	0.39			2.11		87	1603	71	701	5.09	71.27	1042	
7 11	86	1416	63	453	70	0.00			1.91		95	1526	68	556	1.53	74.15	1100	
7 12	89	1514	67	529	73	0.00					97	1513	69	700	1.45	67.00	1225	
7 13	88	1355	68	507	72	0.00					98	1354	67	549	4.55	60.41	1245	
7 14	88	1505	68	558	69	1.03			2.19		98	1420	69	700	4.70	54.94	1233	
7 15	82	1540	64	508	72	0.00			2.04		92	1558	69	557	0.83	75.92	1217	
7 16	87	1538	63	513	73	0.00			1.82		98	1527	68	558	1.37	69.13	1200	
7 17	89	1405	64	519	72	0.00			1.58		100	1448	68	552	1.71	57.87	1203	
7 18	94	1357	69	438	75	0.00			1.33		105	1421	69	700	1.06	58.69	1213	
7 19	91	1416	69	305	76	0.00					101	1422	69	554	2.74	54.80	1257	
7 20	91	1505	73	432	78	0.00					101	1336	71	700	3.92	64.32	1226	
7 21	91	1321	71	452	76	0.10			0.62	1.33	101	1325	73	557	4.22	59.15	1157	
7 22	92	1614	70	529	78	T			1.08		99	1402	73	533	2.65	66.53	1226	
7 23	88	1454	71	549	73	0.00			0.89	1.24	98	1513	72	603	2.70	78.89	1234	
7 24	85	1205	64	512	66	0.67			1.74		91	1422	66	556	3.13	60.32	1202	
7 25	83	1649	60	525	63	0.00			1.52		94	1529	65	647	2.34	71.55	1236	
7 26	86	1422	63	700	70	0.00					98	1454	65	700	1.92	67.00	1217	
7 27	86	1547	70	431	74	0.00					94	1307	67	700	4.84	76.01	1204	
7 28	88	1131	64	539	66	0.12			0.98	1.7	98	1217	67	605	1.52	67.37	1217	
7 29	86	1445	66	700	71	0.00					98	1517	67	700	1.10	69.88	1159	
7 30	89	1430	70	534	73	0.00			1.33		98	1455	71	701	1.71	56.86	1322	
7 31	90	1456	72	351	76	0.00			1.16	1.89	99	1355	73	700	1.70	63.85	1231	
Average	87		67		72	Total	4.17	0.0			96		69		2.67	68.03		
						Greatest	1.12	0.0										

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM		August 2008		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	85	1655	70	306	77	0.00					88	1708	72	619	1.73	62.59	933		
8 2	91	1440	70	123	71	0.00					97	1534	72	655	2.49	65.01	1208		
8 3	88	1436	64	531	69	0.00					97	1446	66	607	2.17	67.83	1103		
8 4	86	1444	62	537	69	0.00					96	1508	65	552	3.13	61.25	1201		
8 5	88	1435	65	541	71	0.00			0.95	1.69	97	1444	66	700	2.23	66.16	1232		
8 6	86	937	70	425	76	0.00			1.59		86	1216	69	700	0.81	43.63	937		
8 7	92	1504	63	542	68	0.00			1.31		96	1515	67	625	3.74	68.11	958		
8 8	87	1055	60	448	69	0.46			1.58		92	1544	65	609	1.48	64.05	1118		
8 9	83	1520	59	523	66	0.00					91	1423	60	610	3.51	66.72	1246		
8 10	83	1559	59	521	65	0.00					95	1456	61	701	1.72	69.32	1243		
8 11	85	1422	57	530	64	0.03					96	1340	59	603	2.66	62.49	1237		
8 12	78	1501	61	546	65	0.00			0.68	1.43	87	1327	58	605	3.37	71.83	1213		
8 13	84	1549	60	348	66	0.00			1.22	1.98	93	1519	59	700	2.27	65.23	1241		
8 14	84	1255	60	533	65	0.00			1.78		91	1412	64	604	2.77	66.90	1243		
8 15	86	1340	61	531	64	0.73			2.29		93	1410	65	608	2.18	65.51	1259		
8 16	81	1249	61	546	66	0.02					90	1257	65	701	0.79	76.29	1213		
8 17	83	1408	58	547	63	0.00					93	1410	63	614	2.43	64.69	1215		
8 18	87	1532	61	543	65	0.00			1.74		95	1458	63	701	1.19	55.29	1227		
8 19	89	1411	65	700	71	0.00			1.52		97	1436	65	700	1.93	55.95	1233		
8 20	91	1619	61	543	64	0.00			1.24		97	1315	62	634	2.88	56.63	1325		
8 21	81	1426	56	528	61	0.00			1.78	1.99	92	1429	61	616	1.77	64.88	1132		
8 22	83	1619	58	550	63	0.00					95	1434	62	700	1.55	60.24	1134		
8 23	83	1412	58	540	64	0.00					93	1417	63	612	2.13	58.75	1304		
8 24	84	1449	64	700	67	0.00					94	1455	63	700	1.79	63.30	1123		
8 25	87	1443	67	543	71	0.00			0.94	1.22	95	1300	66	700	3.02	59.91	1300		
8 26	90	1414	65	656	65	0.00			1.10	1.48	96	1446	65	658	3.39	55.62	1137		
8 27	78	1546	57	249	66	0.00			1.29		89	1513	62	612	2.22	55.77	1218		
8 28	78	1350	66	703	69	0.00			1.20		81	1420	63	700	1.88	37.67	951		
8 29	72	1540	66	1123	69	0.40			1.55		75	1554	67	554	3.22	20.46	1433		
8 30	75	1613	68	817	69	0.38					76	1637	67	700	0.84	25.85	851		
8 31	87	1628	69	611	70	0.00					97	1521	71	701	0.96	63.86	1107		
Average	84		63		67	Total	2.02	0.0			92		64		2.20	59.41			
						Greatest	0.73	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		September 2008		EASTERN				REMARKS	AVERAGE WIND SPEED MPH	SOLAR RADIATION watts per sq ft	time occurane	
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F								
	maximum	time occurance	minimum	time occurance	present				INCHES	reading after	maximum	time occurance	minimum	time occurance					
9 1	86	1452	56	554	60	0.00					96	1453	61	620	1.86	53.58	1008		
9 2	85	1506	57	438	62	0.00			1.32		95	1439	60	624	1.63	50.33	1201		
9 3	91	1536	60	556	64	0.00			1.13		97	1459	61	700	1.38	49.01	1207		
9 4	94	1551	64	700	69	0.00			0.95		99	1500	63	700	0.94	48.57	1213		
9 5	93	1420	65	639	68	0.00			0.72	1.10	98	1442	66	645	3.09	48.79	1305		
9 6	87	1350	68	700	76						94	1432	66	701	3.17	61.28	1424		
9 7	76	1320	62	610	64	1.97					78	1607	65	628	two day precipitation		5.81	27.95	1607
9 8	83	1602	62	557	64	0.00			2.72		92	1521	65	754	1.52	49.34	1139		
9 9	85	1337	64	700	73	0.00			2.54		94	1438	67	701	1.77	48.24	1144		
9 10	80	929	65	627	65	0.17			2.65		81	1525	67	700	2.40	45.07	927		
9 11	75	1532	63	456	65	0.00			2.49		87	1539	66	745	1.75	57.67	1057		
9 12	79	1433	65	700	67	0.00					85	1450	66	702	2.12	58.55	1321		
9 13	77	1229	67	705	71	0.01					79	1345	68	704	2.70	54.37	1227		
9 14	90	1413	71	700	75	0.00					97	1446	71	700	1.41	53.87	1240		
9 15	92	1335	75	613	76	0.00			1.96		98	1341	72	654	6.23	49.47	1221		
9 16	84	1412	60	531	63	0.00			1.72		90	1439	62	658	3.29	57.22	1256		
9 17	73	1553	52	539	55	0.00			1.63		77	1424	56	637	1.49	64.48	1206		
9 18	77	1531	52	622	54	0.00			1.50		86	1544	56	700	1.18	59.65	1347		
9 19	80	1349	54	702	59	0.00			1.35		87	1349	57	701	1.68	52.24	1257		
9 20	73	1413	48	527	51	0.00					81	1424	51	649	1.79	62.01	1236		
9 21	72	1607	46	547	48	0.00					81	1500	51	701	1.14	64.10	1215		
9 22	81	1531	48	700	55	0.00			0.99	1.73	86	1513	52	702	0.68	56.82	1058		
9 23	80	1343	55	700	59	0.00					88	1450	56	702	1.77	40.24	1233		
9 24	72	1300	49	425	53	0.00			1.42		84	1438	52	645	2.93	49.45	1153		
9 25	70	1406	53	700	57	0.00			1.29		77	1436	53	702	4.63	44.44	1126		
9 26	62	1204	57	700	60	0.54			1.83		61	1557	53	702	8.71	10.07	858		
9 27	69	441	60	700	69	0.99					69	1607	60	703	3.85	14.15	1220		
9 28	75	1145	68	531	68	0.20					81	1517	68	701	1.31	65.97	1142		
9 29	76	1331	61	621	63	0.02			2.89		80	1438	63	643	1.16	55.83	1322		
9 30	75	1528	52	550	53	0.00			2.78		78	1546	58	654	2.67	65.32	1041		
Average	80		59		63	Total	3.90	0.0			86		61		2.53	50.60			
						Greatest		0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD				7:00 AM		October 2008		EASTERN				REMARKS	AVERAGE	SOLAR RADIATION			
DATE	TEMPERATURE F					RAIN, MELTED PRECIP INCHES	SNOW, ICE, HAIL INCHES	SNOW, ICE ON GROUND INCHES	EVAP		WATER TEMP F					WIND SPEED MPH	watts per sq ft	time occurene	
	maximum	time occurance	minimum	time occurance	present				INCHES	reading after	maximum	time occurance	minimum						time occurance
10 1	73	1426	53	700	54	0.35			3.01		76	1523	58	705	1.87	53.45	1142		
10 2	73	1246	47	631	51	0.03			2.93		76	1342	50	659	1.62	56.85	1243		
10 3	66	1513	43	414	48	0.00			2.79		71	1516	48	642	2.97	61.12	1144		
10 4	74	1532	48	700	50	0.00					77	1528	48	701	2.43	43.46	1158		
10 5	72	1526	50	622	51	0.00					81	1539	55	710	1.07	49.21	1024		
10 6	75	1509	48	232	52	0.00			2.41		82	1504	55	632	1.23	36.46	1221		
10 7	68	1539	39	625	41	0.00			2.31		72	1420	46	646	1.62	39.79	1130		
10 8	66	1509	41	700	43	0.00			2.19		75	1513	46	714	1.17	37.56	1209		
10 9	69	1451	43	700	63	0.00			2.11		71	1450	48	702	3.16	38.84	1125		
10 10	81	1440	55	633	55	0.00			2.01		83	1441	60	658	1.47	39.57	1052		
10 11	75	1505	45	636	46	0.00					82	1437	51	659	1.42	35.78	1104		
10 12	74	1523	45	627	46	0.00					79	1511	51	648	0.97	36.68	1201		
10 13	76	1247	46	700	47	0.00			1.63		81	1522	51	703	0.82	33.12	1210		
10 14	81	1459	47	700	51	0.00			1.54		81	1516	52	702	1.06	51.08	1256		
10 15	85	1448	51	700	62	0.00			1.42		84	1503	54	703	1.02	34.63	1141		
10 16	84	1436	62	700	64	0.00			1.31		86	1434	63	641	1.01	38.78	1237		
10 17	85	1152	54	700	54	T			1.15		80	1351	54	658	5.11	45.19	1041		
10 18	63	1327	49	700	49	0.00					70	1344	47	659	4.18	45.88	1057		
10 19	60	1432	39	650	40	0.00					68	1420	38	656	4.49	36.60	1239		
10 20	58	1524	31	645	31	0.00			T.L.	2.64	67	1446	38	648	3.60	32.97	1214		
10 21	65	1516	31	700	40	0.00			2.48		73	1425	38	703	1.05	32.80	1306		
10 22	66	1228	39	701	42	0.00			2.30		66	1422	40	646	5.63	42.17	1120		
10 23	56	1407	32	449	33	0.00			2.20		63	1501	38	415	5.04	32.50	1210		
10 24	59	1317	33	700	35	0.00			2.11		65	1508	37	818	1.39	39.51	1301		
10 25	59	658	35	700	59	0.05					56	1611	40	718	2.43	36.56	1110		
10 26	68	1111	38	633	39	0.72					67	1424	46	659	5.11	27.68	922		
10 27	65	1428	39	704	48	0.00			2.63		68	1441	46	702	2.51	35.06	1216		
10 28	53	807	39	1509	42	0.48			3.00		50	1111	41	655	4.64	16.89	941		
10 29	51	1332	40	617	41	0.01			2.87		52	1405	36	447	9.83	45.37	1036		
10 30	52	1305	36	240	36	0.00					48	1413	35	735	5.09	54.98	1243		
10 31	54	1622	29	631	29	0.00			2.64		59	1458	37	714	2.76	39.24	1147		
Average	68		43		46	Total	1.64	0.0			71		47		2.83	40.32			
						Greatest	0.72	0.0											

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO						PRINCE GEORGE MD			7:00 AM		November 2008		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						
11 1	68	1449	29	700	37	0.00			2.53		65	1510	38	800		2.05	38.39	1200		
11 2	75	1425	37	700	51	0.00					70	1529	42	706		2.28	37.11	1206		
11 3	57	1357	48	558	48	0.00			2.31		63	1420	49	641		2.76	38.29	1254		
11 4	60	1528	47	2355	53	0.00			2.27		58	1603	49	734		0.69	18.49	1012		
11 5	58	1322	53	700	56	0.13			2.42		58	1557	51	709		2.23	12.83	1323		
11 6	67	1331	55	703	58	0.22					66	1358	54	700		10.06	36.48	1328		
11 7	65	1540	54	641	55	0.08					63	1557	56	700		6.82	10.57	851		
11 8	73	1452	55	701	55	0.00					73	1519	55	650		1.56	44.04	1124		
11 9	67	1417	41	659	41	0.00					69	1431	46	656		1.91	38.64	1256		
11 10	61	1430	36	524	37	0.00					64	1438	41	653		2.87	31.59	1252		
11 11	52	1317	31	655	32	0.00					58	1421	35	627		4.97	33.87	1213		
11 12	51	1344	31	708	41	0.00					55	1456	35	703		1.41	27.93	1202		
11 13	52	1259	41	239	47	0.00					52	1532	42	712		0.99	26.68	1218		
11 14	52	659	47	731	52	0.88			2.76		51	700	44	702		1.65	3.35	1057		
11 15	61	659	52	702	61	0.00					57	657	51	700		1.62	8.04	1152		
11 16	74	1359	42	500	43	0.00					71	1416	42	658		7.84	40.68	1223		
11 17	51	1501	32	532	33	1.01			3.43		50	1511	37	659		6.13	48.58	1125		
11 18	49	1213	31	653	31	0.00					51	1408	37	716		3.38	40.32	1144		
11 19	39	1127	26	700	26	0.00					43	1355	33	659		8.82	40.49	1153		
11 20	39	1412	26	700	34	0.00					46	1402	33	732		3.51	30.80	1323		
11 21	47	1150	30	645	31	0.00			3.14		49	1303	36	830		4.80	32.46	1147		
11 22	39	1128	25	656	26	0.02					42	1249	32	700		7.29	18.83	1356		
11 23	37	1416	23	658	23	0.00					46	1434	32	729		4.23	37.64	1212		
11 24	45	1448	21	338	22	0.00			2.97		46	1416	33	736		1.41	26.63	1200		
11 25	54	1434	22	700	43	0.07			2.99		47	1504	33	713		7.65	35.26	1156		
11 26	48	1208	32	650	33	0.00			2.89		53	1243	36	658		6.67	30.60	1242		
11 27	45	1051	23	659	23	0.00					45	1340	35	656		2.95	35.56	1132		
11 28	52	1403	22	711	38	0.00					51	1521	34	737		1.56	25.42	1205		
11 29	47	1411	27	636	27	0.24					43	1546	35	659		0.89	18.00	1027		
11 30	51	1448	26	720	37	0.51					51	1532	34	728		1.03	25.36	1201		
Average	55		36		40	Total	3.16	0.0			55		40			3.73	29.76			
						Greatest	1.01	0.0												

S. No. 18-9070-4

RECORD OF CLIMATOLOGICAL OBSERVATIONS AND EVAPORATION

UPPER MARLBORO		PRINCE GEORGE MD					7:00 AM		December 2008		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				reading	after	maximum	time occurance	minimum	time occurance				
12 1	57	2313	37	700	43	0.00					45	133	39	901	4.91	3.71	1148	
12 2	51	1456	31	641	31	0.00					51	1459	37	700	10.20	35.26	1124	
12 3	45	1322	23	659	23	0.00					47	1341	34	741	1.53	32.33	1237	
12 4	48	1354	23	701	40	0.00					50	1500	36	727	4.19	25.00	1212	
12 5	54	1229	28	621	29	0.05					51	1520	36	738	4.34	30.23	1203	
12 6	41	1405	17	655	18	0.00					46	1433	33	658	2.52	27.51	1228	
12 7	36	1536	17	707	30	0.04	0.3	T			40	1152	33	747	1.75	21.11	1131	
12 8	34	939	21	443	23	0.00					41	1440	31	542	7.70	34.61	1126	
12 9	35	657	23	704	35	0.00					40	1439	31	744	1.47	25.45	930	
12 10	62	206	35	700	61	0.03					52	700	33	716	6.15	32.43	1243	
12 11	66	1252	42	659	42	0.29					61	1615	50	700	6.20	9.96	1222	
12 12	42	700	39	104	39	1.34					50	700	40	658	4.78	3.25	1050	
12 13	44	1329	28	302	30	0.10					49	1428	36	654	6.91	40.45	1209	
12 14	39	1316	23	10	32	0.00					47	1447	35	659	2.56	28.42	1142	
12 15	50	1447	32	750	46	0.00					48	1530	35	724	4.68	29.77	1138	
12 16	69	1438	41	656	41	0.13					62	1600	42	708	8.58	36.51	1223	
12 17	41	720	34	413	35	0.57					46	700	37	657	3.35	11.48	1320	
12 18	47	1529	34	657	34	0.02					44	1605	37	725	1.80	16.90	1400	
12 19	42	1400	34	712	38	0.07					45	1512	40	756	0.81	29.42	1353	
12 20	45	1732	36	634	36	0.47					42	1859	40	657	1.95	4.63	1157	
12 21	37	849	29	414	30	0.00					40	1224	35	659	2.58	7.03	1028	
12 22	43	1513	16	651	16	0.00					42	1501	31	626	7.53	48.14	1142	
12 23	28	1511	13	645	13	0.00					41	1439	31	607	6.37	33.13	1213	
12 24	38	620	13	735	37	0.00					40	1509	31	713	3.98	35.55	1310	
12 25	62	2233	37	721	46	0.00					47	249	33	700	9.82	21.59	1231	
12 26	49	1217	23	630	24	0.00					55	1431	37	658	4.41	38.11	1005	
12 27	42	1211	24	725	41	0.06					44	1404	37	749	0.80	44.77	1158	
12 28	63	1424	41	700	61	0.00					56	1711	40	713	6.61	42.91	1131	
12 29	69	1428	40	522	41	0.00					64	1454	41	659	7.95	31.86	951	
12 30	52	1544	36	2011	43	0.00					52	1445	38	426	6.14	32.13	1206	
12 31	55	1358	31	611	34	0.00					52	1508	38	750	3.36	32.04	1216	
Average	48		29		35	Total	3.17	0.3			48		36		4.71	27.28		
						Greatest	1.34	0.3										

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