VOLUME 2003 ISSUE JANUARY

http://www.jhuapl.edu/weather/main/index.html

ATLANTIC COAST OBSERVER NETWORK, MD / DE / DC CHAPTER
WITH DATA FROM NEARBY AREAS

COLDEST JANUARY SINCE 1994 * HEAVY NEW YEARS DAY RAINS * FREQUENT LIGHT SNOWS

The below normal temperature trend which began in October continued this month. January 2003 was the first January with below normal temperatures since 1996 and the coldest since 1994. It was also the first time that December and January temperatures both averaged below normal since 1996. Precipitation this month was below normal for the first time since September and driest since February 2002. Snowfall this month was generally slightly below normal. **Rebecca Harvey** of **Eagle Rock** recorded the greatest snowfall in the region. By months end 48" of snow was on the ground at **Eagle Rock**. Measurable snows fell on 22 of the 31 days somewhere in the region. Only three other observers reported over 10" of snow, **Greg Latta** of **Frostburg** (21.2"), **Greg Klein** of **Westminster 5 SSE** (10.6") and **Rob Rickell** of **Hanover 2 S PA** (10.2")

The first 10 days of January were the most active of the month. Temperatures averaged above normal while precipitation was also above normal except for the lower Delmarva Peninsula where they were below normal. New Years Day saw rainfall amounts of over an inch west of the Chesapeake Bay. Stream, road, and basement flooding was reported in Western Maryland. **Manuel Farfan** of **Frederick 4N** reported 2.21", and **Bill Hudelson** of **South Bowie** reported 2.09". The 5th saw a Clipper, much stronger than a typical Clipper, move across the region bringing the heaviest snows of the month. Snowfall amounts were generally in the 2 to 4 inch range. The heaviest amounts were reported by **Gary Gallaher** of **Bear 2 SW,** 5.5", while **Manuel Farfan** of **Frederick 4N** and **Kevin Shaw** of **Gaithersburg 2 WNW each** reported 5.0".

New Years Day was the warmest in Western Maryland and on the Lower Delmarva Peninsula while the 9th was the warmest for the balance of the region. **LaVale** and **Westminster 5 SSE** were the only stations where temperatures failed to hit 50 this month. The lowest barometric readings of the month (around 29.15") occurred on the 9th even though little or no rain fell.

Cold air moved into the region on the 10th and remained till months end. Maximum temperatures were generally in the 20's and 30's, with a few teens in colder locations. The minimum temperatures were in the single digits and the teens through the 28th.

Sub zero temperatures were reported at the following locations on the 18th, the coldest day of the month at all stations except for stations located in Garrett and Allegany Counties: **Parkton 5 SSW** (-3), **Westminster 5 SSE** (-2), **Millers 4 NE** (-1), **Eagle Rock** (-6), **Fallston 2 NW** (-1), **Hagerstown 1E** (-2), **Salisbury** (-1), and **Hanover 2S** (-3). Sub zero temperatures also occurred at **Eagle Rock** and **Frostburg** on several other days between the 19th and 28th.

The 23rd was a windy and bitterly cold day. Maximum temperatures were in the teens to the lower 20's except for Garrett and Allegany Counties where they failed to reach the teens.

The persistent flow of dry arctic air the last three weeks of January dramatically changed the above normal precipitation pattern which we had since October. Liquid amounts of around 1/4" were common which mainly came from frequent light snow events. The only rains which fell occurred at months end. **John Zyla** of **Ridge** in St. Marys County reported that snow fell on 16 days which is the most in 33 years at **Ridge.**

EXTREMES REPORTED BY ACON OBSERVERS

MAXIMUM TEMPERATURE	
Oxon Hill	64
Forest Glen	63
UofD Res Ctr Georgetown	63
MINIMUM TEMPERATURE	
Eagle Rock	-10
Frostburg	-3
Parkton 5 SSW	-3
Hanover 2 S	-3
WARMEST AVG. TEMP.	
Ridge	32.0
Hollywood	31.6
COLDEST AVG. TEMP.	
Eagle Rock	17.5
Frostburg	20.2
MAXIMUM PRECIPITATION	
Eagle Rock	3.86
Frederick 4 N	3.67
MINIMUM PRECIPITATION	
UofD Res Ctr Georgetown	0.95
Harbeson, DE	1.13
MAXIMUM SNOW	
Eagle Rock	61.4
Frostburg	21.2
MINIMUM SNOW	
UofD Res Ctr Georgetown	2.4
Harbeson, DE	2.4

*This has been a very exciting month for our group! Lets all welcome four new members: Three of them are located in Western Maryland counties where we are lacking members - **Greg Latta** of Frostburg, **Nate Mullins** of LaVale, and **Manuel Farfan** of Frederick 4N. Also joining us is **David Roth** of Montgomery Village. Welcome all! We look forward to your data each month.*

OBSERVER COMMENTS FOR JANUARY 2003

Gary Gallaher of Bear 2 SW, DE

Coldest January since 1994. Almost all of the months precipitation fell during the first 5 days. This January ranks as the 5th driest out of 36.

5th -- Station was on the northern portion of the heaviest snow ban from the Clipper. 5.5" fell.

Nate Mullins of LaVale

1st -- A very wet New Years day with rains moderate to heavy at times. Some streams overflowed their banks and flooded roads and basements in the area.

23rd -- Very cold and blustery with flurries and light snow showers on and off, only a dusting. A very chilly low of 2 this morning, high only 12 - one of the coldest highs in years.

Dave Bryant of St Margarets

Average temperature 15% below normal. Coldest since 1994 when the temperature averaged 27.7 degrees. Lots of dry snow. Precipitation again over 50% below normal.

Dan Hanson of Millersville 1 SE

5.3" of snow does not sound like much but it was the snowiest January in 3 yrs. Coldest January since 1994.

18th -- 3 degrees—the coldest since 2 degrees was recorded on 1/1/1997.

Al Kreinik of Parkton 5 SW

"Trace" of snow or more on the ground each day.

17th -- Blowing snow.

18th -- First sub zero temperature since 1/19/1997.

Joe Manfre of Baltimore 2SE

1st -- Cloudy, cold, rain, and thunder.

29th -- Cloudy, cold, light snow, sleet, and rain.

Ralph Hartsock of Westminster 4 SSE

1st--Rainy, very heavy--Flooding PM lightning & thunder.

5th -- Light snow become heavy—Big surprise snow!

17th -- Snow ended quickly - clearing and frigid.

18th -- Brutally cold, sunny. 0 degrees low.

Greg Klein of Westminster 5 SSE

12 consecutive days temperatures =<32 degrees from the 14th to the 25th.

Bobby Miller of Millers 4 NE

"Trace" or more snow on the ground each day. Record 13 days with measurable snow broke the old record of 12 set in January 1982

3rd, 29th, 31st -- Glaze reported each day.

Manuel Farfan of Frederick 4 N

10th -- Heavy winds today and dropping temperatures during the day.

15th -- Snow squall during the morning hours produced 0.1" of snow.

Lynn Albright of Fallston 2 NW

29th -- Snow, freezing rain, snow pellets.

Rebecca Harvey of Eagle Rock

Snow cover increased from 3" on the 1st & 2nd to 48" on the 30th & 31st.

Rich Giannola of JHU/APL OF Laurel

14 days with at least a "Trace" of snow fell this month.

Rob Cohen of Potomac 4 N

18th -- Coldest minimum since 1/19/1997.

23rd -- Snow squall 10:30-11:13 PM. 0.7"

31st -- Light freezing drizzle, sleet, rain 6-8 AM. Fog evening.

David Roth of Montgomery Village 1SW

9th -- Temperature rose 18.7 degrees from 32.9 at 0301 to 51.4 degrees at 0351.

Kevin Shaw of Gaithersburg 2 WNW

Coldest January since 1994, but not many extreme cold records set. More persistent cold throughout the month, with frequent light snows that almost brought us up to normal monthly snowfall amounts. Precipitation for month just about normal.

Joe Terry of Forest Glen

9th -- Tied lowest pressure since station inception (last 8 years). Pressure minimum 29.17" yet no precipitation and only some high clouds.

18th -- 7 degrees - lowest temperature in 6 years.

26th -- Brief mid afternoon sun and temp in the 40's was abruptly followed by a burst of snow which began accumulating almost immediately.

29th -- First rain in 26 days.

Bill Hudelson of South Bowie

29th -- Mostly overcast, freezing rain and ice pellets during the night, light rain during the day ending with a brief period of snow.

31st -- Overcast, for dense in evening, freezing rain and drizzle AM, light rain and drizzle PM.

Brian Smith of Oxon Hill

1st -- Single boom of thunder 1736 from solitary LTGCG.

26th -- 0.5" of snow fell. Winds blew most of the snow away.

Floyd Abell of Hollywood

Snowed a "Trace" or more on 13 days. This was the coldest January since 1994.

John Zyla of Ridge

16 snow days (at least a "Trace") is the most for any January in 33 years of Ridge snow records.

30th -- Smallest daily temperature change in station history of 1.4 degrees, 32.9 degrees to 31.5 degrees.

Greg Keefer of Hagerstown 1 E

9th -- Warm with strong WNW winds early this morning gusting to 44 mph. Temps rose to 52 overnight. Sunny breezy and warmer today, high of 56.

16th --Cloudy and cold today. Snow began fast and furious around 6:30 PM. The very powdery snow continued moderately throughout the evening with 2.1" by midnight.

Jim Vaughn of Smithsburg 2 NE

1st -- 1.88" of rain, second only to 1.90" for the month of January which fell on 1/7/1996.

3rd -- Snow, sleet, and freezing rain with 0.4" of glaze on everything.

Robert Rickell of Hanover 2 S PA

A "Trace" of snow or more was recorded here on the ground during each day this month, quite a change from last January.

Compiled by Gary Gallaher, MD/DE ACON Data Collector and Report Writer, from data received from dedicated observers. Without your observations each month this report will not be possible.

ACON MD /DE / DC
JANUARY 2003 SUMMARY

OBSERVER	STATION	TEMPERATURE										PEAK WIND			PRECIPITATION						SNOWFALL				OBS
COUNTY, STATE		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY	DATE	SEA-SON	TIME
New Castle, Delaware																									
Canavan, Jim	Wilmington 4 NNE	31.6	18.3	25.0	50	9	2	18	0	18	29				2.39	1.02	1	2.39	7	1	7.5	4.0	5	17.5	2400
Gallaher, Gary	Bear 2 SW	34.2	20.2	27.2	56	9	3	28	0	14	27	48	WNW	20	1.80	0.77	1	1.80	7	0	8.0	5.5	5	16.9	2400
NWS Wilmington	New Castle Co. Apt.	33.8	20.7	27.3	53	9	6	18+	0	16	29	44	WNW	20	1.79	0.84	1	1.79	7	0	5.4	3.3	5	14.4	2400
U of D DE Climatologist	Newark Pearson Hall	34.0	22.2	28.1	55	9	8	18+	0	12	26	39		20	1.44	0.58	1	1.44	8	0					2400
Sussex, Delaware																									
NWS Georgetown	Sussex Co. Airport	37.5	23.4	30.5	63	1	5	18	0	9	24	32	NW	23	0.92	0.29	1	0.92	9	0					2400
U of D Research & Ed Ctr	Georgetown	36.8	22.9	29.9	63	1	4	18	0	11	24				0.95	0.38	1	0.95	7	0	2.4	1.0	5+	2.4	2400
U of D Warrington Farm	Harbeson	36.8	21.8	29.3	61	1	1	18	0	9	24				1.13	0.47	1	1.13	9	0	2.4	1.0	5+	2.4	2400
Allegany, Maryland																									
Latta, Greg	Frostburg	27.1	13.2	20.2	56	1	-3	23	0	23	30				2.67	0.94	2	2.67	18	0	21.2	3.7	11	42.0	2400
Mullins, Nate	LaVale	29.7	18.7	24.2	44	8	2	23	0	21	29				2.64	1.47	1	2.64	10	1	8.0	2.0	3	25.0	2400
Anne Arundel, Maryland																									
Bryant, Dave	St. Margarets	36.0	22.6	29.3	58	9	8	18	0	11	27				2.20	1.09	1	2.20	11	1	5.8	2.8	5	13.9	0700-P 1700-T
Hanson, Dan	Millersville 1 SE	35.0	19.9	27.5	61	9	3	18	0	15	28	37	NW	11	2.71	1.63	1	2.71	11	1	5.3	3.3	5	14.7	2400
Jug Bay Wetlands	Lothian	39.9	20.9	30.4	62	1+	3	18	0	4	24				2.12	0.67	1	2.12	11	0				6.0	0900
NWS Baltimore	BWI Airport	35.3	21.3	28.3	59	9	5	18	0	11	28	46	W	10	2.59	1.68	1	2.59	10	1	5.4	2.8	5	15.1	2400
Stoudt, Jeff	Laurel 2 E	-	-	-	-	-	-	-	-	-	-				3.00	2.34	1-3	3.00	9	1	5.7	3.1	5	14.7	2400
Baltimore, Maryland																									
Kreinik, Al	Parkton 5 SW	33.6	18.2	25.9	56	9	-3	18	0	16	29	57	NW	20	3.05	1.30	1	3.05	13	1	8.3	3.4	5	22.9	2200
Sharrow, Marty	Owings Mills 2 SE																							15.7	2400
Baltimore City, Maryland																									
Manfre, Joe	Baltimore 2 SE	36.0	25.9	31.0	60	9	10	18	0	12	23				3.23	1.58	1	3.23	10	1	5.5	3.5	5	14.5	1800
Maryland Science Ctr	Baltimore Inner Harbor	35.8	24.9	30.4	59	9	11	18	0	13	25				2.84	1.51	1	2.84	10	1					2400
Carroll, Maryland																									
Close Jr, Herb	Manchester 1 SW	32.5	17.8	25.2	55	9	0	18	0	20	28	42		20	2.30	0.84	1	2.30	13	0	8.8	3.0	5	17.8	2100
Hartsock, Ralph	Westminster 4 SSE	32.9	18.8	25.9	52	9	0	18	0	16	28	44	WNW	20	2.57	0.93	1	2.57	12	0	8.8	4.0	5	25.2	2100
Klein, Greg	Westminster 5 SSE	30.5	16.6	23.6	49	9	-2	18	0	21	28				2.74	1.07	1	2.74	14	1	10.6	4.2	5	24.1	2200
Miller, Bobby	Millers 4 NE	33.0	18.9	26.0	54	9	-1	18	0	16	27	41	NW	20	2.78	0.93	2	2.78	14	0	9.1	2.6	5	25.0	1800
Frederick, Maryland																									
Farfan, Manuel	Frederick 4 N	33.5	21.2	27.4	55	9	2	18	0	15	26				3.67	2.21	1	3.67	10	1	8.8	5.0	5	21.2	2400
Garrett, Maryland																									
Harvey, Rebecca	Eagle Rock	25.8	9.2	17.5	59	1	-10	23+	0	24	30				3.86	0.67	20	3.86	22	0	61.4	8.0	20	94.3	0800
Harford, Maryland																									
Albright, Lynn	Fallston 2 NW	35.3	17.5	26.4	55	9	-1	18	0	12	28				2.55	1.05	1	2.55	10	1	7.5	4.0	5	19.5	2400

ACON MD /DE / DC
JANUARY 2003 SUMMARY

OBSERVER	STATION	TEMPERATURE										PEAK WIND			PRECIPITATION						SNOWFALL				OBS
COUNTY, STATE		AVG MAX	AVG MIN	MEAN	MAX	DAY	MIN	DAY	MAX >=90	MAX <=32	MIN <=32	GUST	DIR	DAY	TOTAL	MAX DAY	DATE	YEAR	DAYS >=.01"	DAYS >=1"	TOTAL	MAX DAY	DATE	SEA-SON	TIME
Howard, Maryland																									
Giannola, Rich	Laurel JHU / APL	34.0	29.0	31.5	59	9	4	18	0	14	26	38	NW	20	2.95	1.43	1	2.95	12	1	7.8	4.5	5	17.3	2400
Montgomery, Maryland																									
Cohen, Rob	Potomac 4 N	35.1	22.5	28.8	59	9	6	18	0	12	26				3.13	1.72	1	3.13	12	1	7.7	4.5	5	16.4	2100
Giannola, Rich	Olney 1 S	34.4	20.3	27.4	57	9	1	18	0	13	27				2.70	1.41	1	2.70	11	1	8.3	4.5	5	18.1	2400
Roth, David	Montgomery Village 1 SW	34.9	22.5	28.7	58	9	6	18	0	12	26	23		20	2.73	1.41	1	2.73	14	1	7.5	5.3	5-6	17.0	2400
Rossen, Stan	Glenmont 1 NNE	36.1	21.4	28.8	60	9	3	18	0	10	28				2.76	1.51	1	2.76	11	1	8.2	3.7	5	17.9	2400
Scafide, Tony	Bethesda	36.7	21.6	29.2	60	9	6	18	0	8	28	26		24	2.65	1.46	1	2.65	11	1					2400
Shaw, Kevin	Gaithersburg 2 WNW	35.0	19.4	27.2	58	9	0	18	0	12	29				2.97	1.62	1	2.97	11	1	8.3	5.0	5	18.7	2400
Terry, Joe	Forest Glen	37.3	22.5	29.9	63	9	7	18	0	7	28	32	WSW	9	2.91	1.60	1	2.91	13	1	8.3	4.0	5	16.9	2400
Wash Gas Light	Rockville 1 NE																							10.3	2400
Prince Georges, Maryland																									
Hudelson, Bill	South Bowie	34.5	22.7	28.6	52	9	6	18	0	14	26	37	NW	23	3.33	2.09	1	3.33	10	1	4.9	3.0	5	11.4	2400
Smith, Brian	Oxon Hill	37.6	24.6	31.1	64	9	11	18	0	8	25				2.96	1.80	1	2.96	11	1	4.5	2.3	5	11.5	2000
St. Marys, Maryland																									
Abell, Floyd	Hollywood	38.8	24.3	31.6	65	9	6	18	0	6	25	34		23	1.61	0.69	1	1.61	12	0	8.6	3.0	16	11.7	2400
Van Wie, Michael	Oraville																							4.1	2400
Zyla, John	Ridge	39.3	24.7	32.0	61	1+	8	18	0	7	24	33	NE	24	1.99	0.86	1	1.99	10	0	7.7	4.0	16	12.1	2400
Washington, Maryland																									
Keefer, Greg	Hagerstown 1 E	32.8	19.6	26.2	56	9	-2	18	0	18	28	44	NW	9	2.28	1.52	1	2.28	9	1	7.6	3.1	5	21.9	2400
Vaughn, Jim	Smithsburg 2 NE	33.0	18.3	25.7	55	9	0	18	0	17	27	58	N	24	2.91	1.88	1	2.91	13	1	6.8	2.5	5	23.4	2000
Wicomico, Maryland																									
NWS Salisbury	Wicomico Co. Apt	37.8	20.3	29.1	63	1	-1	18	0	9	26	40	WNW	23	1.38	0.44	1	1.38	9	0	3.8	2.5	16	7.8	2400
York, Pennsylvania																									
Rickell, Robert	Hanover 2 S, PA	30.6	16.8	23.7	52	9	-3	18	0	20	29				2.85	1.30	1	2.85	14	1	10.2	3.1	5	25.9	2100
Arlington, Virginia																									
NWS Washington National	National Airport	37.3	24.8	31.1	62	9	11	18	0	7	24	38	NW+	7+	2.41	1.52	1	2.41	9	1	4.5	3.0	5	11.6	2400
Loudon, Virginia																									
NWS Washington Dulles	Dulles Airport	35.7	21.0	28.4	60	9	3	18	0	0	28	40	N	24	2.69	1.73	1	2.69	9	1	5.1	3.7	5	13.3	2400
SECTION AVERAGE		**34.6**	**20.8**	**27.7**											**2.50**						**8.8**				

NOTES:

M = MISSING DATA
> = INCLUDED IN NEXT DAYS DATA
__= UNDERLINE INDICATES DATA MISSING FROM NUMBER

GARY GALLAHER 3/08/03

ACON MD / DE / DC
JANUARY 2003 DAILY TEMPERATURES

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	OBS TIME
WILMINGTON 4NNE	45	38	38	36	34	32	26	41	50	43	30	32	40	31	30	28	25	17	24	35	26	24	19	27	30	34	17	24	31	33	39	31.6	2400
CANAVAN	39	34	31	31	25	25	20	24	29	32	20	18	18	16	17	11	16	2	7	14	13	7	6	6	11	19	7	3	23	19	25	18.3	EST
BEAR 2 SW, DE	47	41	41	37	33	35	32	45	56	48	33	33	41	31	32	28	30	23	29	37	29	24	21	30	33	37	28	27	31	33	36	34.2	2400
GALLAHER	39	33	34	33	25	31	24	30	28	31	24	22	18	19	20	16	16	6	7	21	17	9	11	11	10	14	6	3	21	15	32	20.2	EST
WILMINGTON , DE	46	40	40	38	34	33	31	43	53	47	32	35	41	30	31	27	30	22	30	36	30	24	21	30	32	35	30	28	31	33	36	33.8	2400
NWS NEW CASTLE CO APT	38	30	30	30	28	29	23	28	30	34	25	23	22	19	20	16	15	6	12	18	16	12	11	10	13	16	8	6	23	19	32	20.7	EST
U of D DE Climatologist	48	40	41	37	34	34	32	45	55	50	32	34	40	30	29	27	30	23	29	37	30	24	20	30	33	36	28	28	32	34	37	34.0	2400
Newark Pearson Hall	39	33	33	34	29	31	23	32	32	30	25	22	21	22	20	15	16	8	11	22	19	13	12	11	16	19	11	8	26	24	32	22.2	EST
GEORGETOWN, DE	63	46	50	38	34	40	36	50	60	49	37	34	44	34	33	30	31	23	31	39	28	26	21	30	35	43	31	33	40	35	38	37.5	2400
NWS SUSSEX CO APT	46	39	37	34	26	32	27	36	39	30	22	21	18	25	21	17	20	5	6	26	18	14	14	12	9	19	9	6	32	31	33	23.4	EST
GEORGETOWN, DE	63	47	50	39	34	40	33	50	60	49	35	33	43	32	32	30	30	22	29	39	27	25	20	31	34	42	30	34	40	33	38	36.8	2400
UofD RESEARCH & ED CTR	47	38	36	33	26	32	26	35	38	30	22	21	17	24	22	17	20	4	6	26	17	13	13	11	9	20	7	6	32	30	33	22.9	EST
HARBESON, DE	61	45	49	37	34	39	36	50	59	48	36	33	43	33	32	30	30	22	30	39	27	24	20	31	34	43	30	33	40	33	38	36.8	2400
UofD WARRINGTON FARM	45	37	36	33	25	30	26	35	37	32	20	19	16	24	20	15	20	1	2	25	14	11	13	11	6	18	6	5	31	30	32	21.8	EST
FROSTBURG	56	43	43	31	25	27	29	34	43	45	29	29	20	29	20	15	19	19	19	24	23	19	12	10	17	25	28	10	33	35	29	27.1	2400
LATTA	40	32	29	20	20	21	13	12	32	29	12	9	10	13	11	4	5	1	3	12	13	2	-3	-2	8	10	-1	-1	9	23	23	13.2	EST
LAVALE	43	38	35	32	29	30	36	44	40	37	26	26	38	29	23	21	27	21	25	27	20	22	12	24	29	30	24	29	40	31	34	29.7	2400
MULLINS	37	35	30	27	28	29	17	24	32	21	17	15	16	14	16	9	8	3	13	17	18	5	2	10	13	24	7	9	29	24	32	18.7	EST
ST MARGARETS	49	43	41	41	34	39	31	47	58	50	35	33	45	33	33	32	32	25	32	39	29	27	21	33	35	38	27	32	34	32	35	36.0	1700
BRYANT	41	37	35	28	26	31	23	32	32	34	25	21	21	24	19	16	17	8	17	24	16	10	12	12	13	20	11	10	29	27	31	22.6	EST
MILLERSVILLE 1SE	47	41	40	37	31	36	35	50	61	47	34	32	44	32	31	30	29	25	30	38	28	24	19	33	36	39	27	31	32	32	35	35.0	2400
HANSON	39	35	34	21	21	29	22	32	28	31	23	18	16	21	16	13	16	3	11	23	17	6	11	11	12	15	8	6	27	21	31	19.9	EST
LOTHIAN	62	56	43	44	41	M	40	39	53	62	47	38	35	48	34	34	33	33	29	36	40	32	29	23	35	40	M	44	38	37	33	39.9	0900
JUG BAY	33	39	34	34	23	M	24	26	33	32	26	17	11	24	16	16	16	3	11	23	25	8	12	12	9	16	M	5	18	29	30	20.9	EST
BALTIMORE	48	41	40	37	31	36	35	49	59	48	34	33	43	32	32	30	30	25	31	39	28	25	20	34	35	39	26	33	33	33	36	35.3	2400
NWS BWI APT	39	36	35	29	23	30	22	32	29	32	23	21	17	23	17	16	13	5	11	23	16	10	11	12	14	15	10	10	29	24	32	21.3	EST
LAUREL 2 E		PRECIPITATION STATION ONLY																															
STOUDT																																	
PARKTON 5SW	45	38	36	37	30	37	32	46	56	45	32	32	41	29	29	27	30	25	28	36	30	25	20	31	35	36	20	30	33	37	33	33.6	2200
KREINIK	36	35	32	29	22	21	19	29	29	32	20	18	14	13	17	11	13	-3	10	19	13	7	8	9	11	14	8	4	27	17	30	18.2	EST
OWINGS MILLS 2SE																																	2400
SHARROW																																	EST
BALTIMORE 2SE	48	41	41	39	31	40	33	48	60	50	44	33	45	33	31	30	29	25	30	40	31	25	20	32	36	38	27	32	34	34	37	36.0	1800
MANFRE	45	39	36	36	28	32	24	35	36	39	25	22	25	25	24	19	22	10	19	28	21	17	14	15	21	25	14	16	28	29	33	25.9	EST
BALT INNER HARBOR	49	42	40	38	32	39	36	49	59	51	33	33	45	32	31	31	31	25	31	39	29	25	20	32	36	36	28	31	35	34	37	35.8	2400
MD SCIENCE CENTER	41	36	35	31	29	32	24	35	36	32	26	22	25	25	22	19	18	11	19	25	20	15	14	14	20	25	15	16	29	29	33	24.9	EST
MANCHESTER 1SW	50	36	33	32	28	35	31	45	55	46	30	33	39	26	28	25	32	24	28	32	29	25	20	31	32	37	22	28	32	33	32	32.5	2100
CLOSE	35	33	31	24	20	26	15	30	38	27	18	16	19	13	14	10	10	0	10	16	12	6	5	6	12	20	5	5	26	22	27	17.8	EST
WESTMINSTER 4 SSE	46	41	34	35	29	38	30	44	52	42	31	30	40	30	26	30	28	19	28	35	30	21	17	28	32	40	28	33	34	35	33	32.9	2100
HARTSOCK	36	34	31	29	21	28	18	30	34	30	19	17	14	15	18	12	15	0	8	20	16	5	7	7	12	16	8	5	27	23	28	18.8	EST
WESTMINSTER 5 SSE	44	38	33	31	28	36	28	41	49	45	29	26	37	27	25	28	25	18	25	32	26	19	15	25	30	37	23	31	31	33	31	30.5	2200
KLEIN	35	33	30	22	18	26	15	28	33	26	15	14	13	12	14	9	12	-2	6	15	12	5	5	15	9	16	4	3	26	19	26	16.6	EST
MILLERS 4NE	44	43	37	34	32	35	31	45	54	47	34	31	39	33	27	25	29	22	27	34	29	23	18	30	29	35	29	28	31	35	33	33.0	1800
MILLER	38	33	32	30	21	28	17	27	34	33	19	18	17	13	17	11	16	-1	10	19	15	8	7	8	14	18	7	6	26	17	27	18.9	EST
FREDERICK 4 N	44	39	37	35	30	36	33	47	55	49	31	32	42	30	28	28	29	22	28	35	29	23	18	31	33	38	21	32	34	36	34	33.5	2400
FARFAN	39	37	33	29	24	28	21	33	41	28	23	20	20	19	19	17	14	2	6	17	17	12	10	12	17	16	11	10	30	23	30	21.2	EST
EAGLE ROCK	59	42	34	32	24	30	32	30	44	45	26	18	20	26	20	14	18	16	24	22	22	16	12	0	12	20	26	18	34	34	30	25.8	0800
HARVEY	38	30	28	14	16	24	6	8	28	24	6	0	4	10	4	-4	8	-6	-2	6	10	-6	-10	-6	0	10	-10	-4	18	22	20	9.2	EST
FALLSTON 2 NW	47	39	38	38	33	40	31	48	55	47	32	33	44	32	32	33	32	23	31	38	30	24	21	32	36	40	27	33	33	36	36	35.3	2400
ALBRIGHT	36	34	33	27	21	29	20	28	27	28	19	15	14	14	15	10	13	-1	4	15	11	5	8	9	15	13	4	4	26	17	31	17.5	EST

ACON MD / DE / DC
JANUARY 2003 DAILY TEMPERATURES

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	OBS TIME
LAUREL JHU / APL	52	40	38	36	30	39	34	49	59	48	33	32	44	30	31	29	30	27	30	35	28	22	18	31	35	41	22	33	32	33	34	34.7	2400
GIANNOLA	38	35	32	28	23	29	20	34	38	28	22	19	18	21	17	15	14	4	11	21	16	10	9	10	16	18	10	8	28	24	29	20.8	EST
POTOMAC 4N	48	42	37	37	31	36	34	49	59	47	34	32	44	33	30	28	28	25	30	37	29	25	18	31	36	40	30	34	34	34	35	35.1	2100
COHEN	42	37	33	31	24	30	22	34	33	30	24	21	19	24	20	17	16	6	14	25	21	11	10	12	15	17	12	10	30	26	32	22.5	EST
OLNEY 1 S	51	40	37	37	30	36	33	47	57	45	33	32	43	32	30	29	29	24	29	36	28	24	19	31	34	41	25	34	33	34	34	34.4	2400
GIANNOLA	39	36	33	27	22	29	19	32	34	30	22	18	18	21	17	14	14	1	12	21	12	10	9	10	15	18	9	8	28	22	30	20.3	EST
MONTOGMERY VILLAGE	49	42	39	38	35	38	35	49	58	48	33	32	43	32	29	27	29	24	30	37	28	24	19	30	34	40	23	34	37	35	37	34.9	2400
ROTH **1 SW**	40	37	34	30	24	31	22	34	33	30	24	21	20	23	20	17	15	6	15	23	18	14	11	13	17	18	12	11	31	25	32	22.5	EST
GLENMONT 1NNE	49	41	38	39	31	37	36	49	60	46	37	34	47	32	32	30	31	28	33	37	30	27	21	33	38	43	23	35	34	33	35	36.1	2400
ROSSEN	40	37	33	28	23	30	22	32	30	31	22	20	18	24	20	17	15	3	12	23	15	12	11	12	15	15	11	10	29	23	31	21.4	EST
BETHESDA	50	42	40	39	33	38	37	51	60	47	36	34	45	34	32	30	30	27	33	38	32	27	21	33	38	42	27	35	36	35	37	36.7	2400
SCAFIDE	39	36	31	28	24	29	20	29	35	29	22	18	20	22	18	16	16	6	15	24	18	12	11	12	14	20	11	11	29	26	30	21.6	EST
GAITHERSBURG 2WNW	49	41	36	37	30	36	36	48	58	46	35	33	41	31	31	29	30	27	31	37	30	25	20	31	35	40	23	34	35	35	34	35.0	2400
SHAW	39	33	32	23	20	26	21	29	30	26	21	15	15	24	15	12	10	0	12	25	16	8	8	9	13	18	6	13	30	23	29	19.4	EST
FOREST GLEN	49	41	39	40	32	42	37	51	63	46	37	35	46	34	34	30	34	29	34	39	31	29	22	35	38	44	26	35	35	34	35	37.3	2400
TERRY	40	37	33	30	25	31	22	32	24	30	23	20	20	24	20	17	15	7	17	24	17	14	12	13	15	21	12	12	30	28	32	22.5	EST
ROCKVILLE 1NE																																	2400
WASH GAS LIGHT																																	EST
SOUTH BOWIE	52	43	41	38	30	35	35	47	52	46	33	30	42	32	30	30	29	22	30	40	30	24	19	31	34	41	20	34	33	32	33	34.5	2400
HUDELSON	43	38	35	28	24	32	23	34	36	31	26	20	18	24	20	18	16	6	12	25	19	13	12	12	12	19	10	9	30	28	30	22.7	EST
OXON HILL	53	46	42	40	32	37	36	54	64	48	37	34	47	37	33	31	31	28	34	41	31	28	22	34	37	43	24	36	38	34	35	37.6	2000
SMITH	46	39	34	29	26	30	24	34	39	33	26	22	19	25	24	20	18	11	15	28	23	15	13	14	16	20	14	13	31	30	31	24.6	EST
HOLLYWOOD	60	45	46	41	38	40	39	55	65	49	38	35	48	34	35	30	33	26	33	45	28	29	22	35	36	45	30	35	40	33	35	38.8	2359
ABELL	48	40	35	34	24	28	25	38	41	32	26	19	18	27	19	20	21	6	15	28	19	14	15	14	12	20	15	8	32	30	31	24.3	EST
ORAVILLE																																	2400
VAN WIE																																	EST
RIDGE	61	45	49	44	38	39	41	56	61	61	39	37	49	34	37	31	32	25	33	46	28	19	21	36	33	42	29	38	44	33	37	39.3	2400
ZYLA	45	39	34	29	26	29	24	35	44	33	25	21	22	25	20	17	17	8	20	27	18	14	13	12	17	29	13	12	35	32	31	24.7	EST
HAGERSTOWN 1E	47	39	37	34	30	34	33	48	56	48	31	32	41	28	27	26	28	24	28	32	28	23	17	29	32	33	20	30	34	37	32	32.8	2400
KEEFER	38	37	31	29	26	27	17	31	33	27	22	18	18	16	16	13	11	-2	15	17	12	9	6	9	15	17	7	8	28	28	29	19.6	EST
SMITHSBURG 2 NE	53	39	36	32	30	43	37	45	55	46	29	30	40	33	28	24	30	23	26	32	28	21	15	28	30	35	16	31	37	36	34	33.0	2000
VAUGHN	36	35	30	27	24	22	16	35	35	28	19	16	19	16	14	10	8	0	13	16	10	6	2	7	13	14	4	9	28	26	28	18.3	EST
SALISBURY	63	48	53	40	37	40	36	51	61	49	37	33	43	33	33	31	29	22	32	39	26	25	20	31	35	43	30	35	43	35	38	37.8	2400
NWS WICOMICO CO APT	48	38	37	30	21	27	25	30	38	29	19	14	13	24	17	15	16	-1	1	25	14	8	14	11	4	13	4	2	29	31	34	20.3	EST
HANOVER 2 S, PA	42	36	34	32	28	35	28	43	52	39	30	30	39	25	27	24	27	20	26	35	27	21	17	28	30	33	18	28	29	34	31	30.6	2100
RICKELL	35	32	30	27	20	26	16	28	35	30	17	15	15	9	16	10	11	-3	5	18	15	7	6	7	14	18	3	2	24	8	26	16.8	EST
WASH NATIONAL	54	43	41	41	33	37	37	54	62	50	37	34	46	33	33	30	32	25	33	41	31	28	22	35	36	42	26	35	36	34	36	37.3	2400
NWS ASOS	42	39	34	31	28	32	25	35	37	33	26	23	23	26	20	20	18	11	19	26	20	16	14	14	16	22	14	15	29	29	33	24.8	EST
WASH DULLES	50	42	38	38	31	35	35	52	60	46	35	32	46	31	31	28	30	25	34	41	31	27	20	32	36	41	22	37	35	34	33	35.7	2400
NWS ASOS	41	38	33	30	26	29	22	27	32	31	25	17	17	24	15	12	12	3	11	24	19	12	12	14	10	12	7	6	30	30	30	21.0	EST

ACON MD / DE / DC
JANUARY 2003 DAILY PRECIPITATION

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	OBS TIME
WILMINGTON 4NNE	1.02	0.31	0.38		0.40	T	0.02				T				T					T			T			0.03			0.23			2.39	2400
CANAVAN					4.0	T	0.2				T				T		1.0			T			T			0.3			2.0			7.5	EST
BEAR 2 SW, DE	0.77	0.03	0.30		0.44	T	T			T	T				T	0.04	T			T			T	T		0.01	T		0.21		T	1.80	2400
GALLAHER					5.5	T	0.1			T	T				T	0.7	0.1			T			0.1	T		0.2	T		1.3			8.0	EST
WILMINGTON , DE	0.84	0.05	0.30		0.33	T	T			T	T				T	0.03	0.01		T	T			T	T		T			0.23		T	1.79	2400
NWS NEW CASTLE CO APT			T		3.3	T	T			T	T				T	0.6	0.1		T	T			0.1	T		T			1.3			5.4	EST
U of D DE Climatologist	0.58	0.05	0.52			0.13		0.02																					0.01	0.04	0.09	1.44	2400
Newark Pearson Hall																																	EST
GEORGETOWN, DE	0.29	0.02	0.16		0.06	T	T								T	0.06	0.14			T	T		T	0.01		T	T		0.06	0.12	T	0.92	2400
NWS SUSSEX CO APT																																	EST
GEORGETOWN, DE	0.38	0.04	0.29		0.01																								0.07	0.04	0.12	0.95	2400
UofD RESEARCH & ED CTR					1.0	0.1									0.2		0.1													1.0		2.4	EST
HARBESON, DE	0.47	0.03	0.22		0.06												0.06			0.04									0.07	0.08	0.10	1.13	2400
UofD WARRINGTON FARM					1.0	0.1									0.2		0.1													1.0		2.4	EST
FROSTBURG	0.28	0.94	0.42	0.23	T	0.11	0.03			T	0.18				0.02		0.08	0.01	0.01	0.15	0.06	0.01	T	0.02			0.02		0.06	0.04	T	2.67	2400
LATTA			2.0	3.1	0.1	1.2	2.1			T	3.7				0.8		1.1	0.4	0.5	2.8	1.5	0.3	0.1	0.1			0.9		0.5		T	21.2	EST
LAVALE	1.47	0.18	0.55	T	0.10	T			T	0.06	T			T	T	0.05	0.01			0.06	T		T	T		T	T	T	0.05		0.11	2.64	2400
MULLINS	T	T	2.0	T	1.0	T				1.0				T	T	0.8	0.2			1.5	0.3		0.1	0.1		0.2			0.3		0.5	8.0	EST
ST MARGARETS	1.09	0.32	0.28		0.18	T	0.01							T		0.07			0.03							T		0.03	0.05	0.01	0.13	2.20	0700
BRYANT					2.8		0.5	T						0.2	T	1.2					0.5					0.3			0.2	0.1		5.8	EST
MILLERSVILLE 1SE	1.63	0.08	0.42		0.33	T	T									0.05				0.01	0.01		T	T		0.02			0.08	0.01	0.07	2.71	2400
HANSON					3.3	T	T									1.0					0.5		T	T		0.5						5.3	EST
LOTHIAN	0.67	0.55	0.33	0.15		0.21									T		0.09					0.01		0.01			0.01			0.07	0.02	2.12	0900
JUG BAY																																	EST
BWI	1.68	0.02	0.39		0.24	0.05	T			T	T			T	T	0.05	T		T	T	0.01		T	T		0.01			0.12	T	0.02	2.59	2400
NWS ASOS					2.8	0.7	T			T	T			T	T	1.0	T		T	T	0.5		T	0.1		0.3			T	T	T	5.4	EST
LAUREL 2 E	>	>	2.34		0.32	0.05				T					0.01	0.08	T			T	0.03		T	T		0.02			0.10	T	0.05	3.00	2400
STOUDT					3.1	0.4									0.1	1.2	T			T	0.5		T	T		0.4			T	T		5.7	EST
PARKTON 5SW	1.30	0.15	0.89	T	0.37	0.10	T			0.03	T			T	T	0.04	0.05		T	T	0.01		T	0.01		0.05			0.03	T	0.02	3.05	2200
KREINIK		T	0.2	T	3.4	1.0	0.2			T	T			T	T	0.6	0.7		T	T	0.2		T	0.3		1.5			0.1	T	0.1	8.3	EST
OWINGS MILLS 2SE																																	2400
SHARROW																																	EST
BALTIMORE 2SE	1.58	0.08	0.65		0.40	0.22	T			T					T	0.08	T		T	T	0.03		T	T		T			0.14	0.01	0.04	3.23	1800
MANFRE					3.5	0.5	T			T						1.0					0.5		T	T		T			T	T		5.5	EST
BALT INNER HARBOR	1.51	0.04	0.54		0.20	0.22										0.05	0.05												0.18	0.02	0.03	2.84	2400
MD SCIENCE CENTER																																-	EST
MANCHESTER 1SW	0.84	0.09	0.67	T	0.30	0.16	T			0.02	T			T	T	0.09	0.01	T	T	T	T		T	0.01		0.05	T	T	0.02	0.01	0.03	2.30	2100
CLOSE		T	0.1	T	3.0	1.8	T			0.2	T			0.1	0.1	1.3	0.2	T	T	T	T		0.1	0.3		1.3	T	T	0.2	0.1	T	8.8	EST
WESTMINSTER 4 SSE	0.93	0.15	0.84		0.41	0.04				0.02	T				T	0.05	0.02		T		T			0.01		0.04			0.01		0.05	2.57	2100
HARTSOCK			T	T	4.0	1.4	T			0.1	0.1					0.7	0.6		0.2	T	0.2			0.5		1.0					T	8.8	EST
WESTMINSTER 5 SSE	1.07	0.12	0.87		0.21	0.13	0.02			0.05						0.08			0.01	0.02			0.03			0.05			0.02		0.06	2.74	2200
KLEIN					4.2	1.9				0.5						1.5			0.3		0.3		0.5			1.5						10.6	EST
MILLERS 4NE	0.38	0.93	0.74	0.04	0.25	0.08	0.07	T		0.03	T			T	T		0.09		T	T	T		T	0.02		0.07	0.01		0.04	T	0.03	2.78	1800
MILLER			0.3	0.1	2.6	0.8	0.7	T		T	0.1			T	0.2		1.3		T	T	T		T	0.6		1.7	0.2		0.3	T	0.2	9.1	EST
FREDERICK 4 N	2.21	0.09	0.56	T	0.41	0.04				T				T	T	0.14	0.02		T	T	0.01		T			0.02			T	T	0.17	3.67	2400
FARFAN		T	0.1	T	5.0	0.5				0.1				T	0.1	2.0	0.4		T	T	T		T			0.3			T	0.1	0.2	8.8	EST
EAGLE ROCK	0.27	0.08	0.66	0.30	0.05	0.15	0.25	0.03		0.02	0.38	T			0.15		0.10	0.08	0.02	0.67	0.20	T	0.01	0.08			0.09		0.08	0.18	0.01	3.86	0800
HARVEY			4.0	4.0	1.0	1.0	7.0	1.0		5.0	6.0	T			5.0		2.0	3.0	1.0	8.0	6.0	T	0.3	1.5			3.0		0.5	2.0	0.1	61.4	EST
FALLSTON 2 NW	1.05	0.08	0.69		0.36	0.06	0.02			T					T	0.13	T		T	T			T	0.01		0.01		T	0.14	T	T	2.55	2400
ALBRIGHT					4.0	1.0				T					T	1.5	T		T	T			T	0.3		0.3	T	T	0.5			7.5	EST

ACON MD / DE / DC
JANUARY 2003 DAILY PRECIPITATION

STATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	OBS TIME
LAUREL JHU / APL	1.43	0.09	0.64		0.40	0.06				T					T	0.08	0.01			T	0.02		0.01			0.01			0.04	T	0.16	2.95	2400
GIANNOLA					4.5	0.8				T					T	1.5	T			T	0.3		0.2			0.5			T	T		7.8	EST
POTOMAC 4N	1.72	0.05	0.53	T	0.42	0.05				T	T			T	T	0.05	0.04			T	0.03			0.02		0.03			0.04	T	0.15	3.13	2100
COHEN				T	4.5	0.8				T	0.2			T	0.1	0.5	0.5			T	0.2			0.2		0.7				T		7.7	EST
OLNEY 1 S	1.41	>	0.53	T	0.40	0.06				T				T	T	0.08	0.01			T	0.02			0.02		0.01			0.02	T	0.14	2.70	2400
GIANNOLA				T	4.5	1.0				T				T	0.1	1.5	0.1			T	0.3			0.3		0.5			T	T		8.3	EST
MONTOGMERY VILLAGE	1.41	0.04	0.57		0.36	0.07				0.01					0.01	0.04	0.02				0.02			0.01		0.02			0.02		0.13	2.73	2400
ROTH **1 SW**					>	5.3										>	1.4				0.2			0.2		0.4						7.5	EST
GLENMONT 1NNE	1.51	0.05	0.46		0.36	0.06				T	T			T	T	0.07	T		T		0.02		0.01	T		0.02			0.06	T	0.14	2.76	2400
ROSSEN					3.7	1.2				T	T			T	T	1.2	0.3		T		0.7		0.2	T		0.8			T	0.1	T	8.2	EST
BETHESDA	1.46	0.03	0.46			0.25	0.01	0.09									0.04	0.01			0.01								0.06		0.23	2.65	2400
SCAFIDE																																	EST
GAITHERSBURG 2WNW	1.62	T	0.59		0.40	0.06				T				T	T	0.07	0.01			T	0.01		0.04			0.02		T	0.01	T	0.14	2.97	2400
SHAW					5.0	0.6				T				T	T	1.5	0.2			T	0.1		0.5			0.4		T	T	T		8.3	EST
FOREST GLEN	1.60	0.06	0.52		0.34	0.06				0.01	T			T	T	0.06	0.01			T	0.01		0.01	T		0.02			0.06	T	0.15	2.91	2400
TERRY					4.0	1.1				0.5	T			T	T	1.0	0.4			T	0.2		0.2	T		0.9			T	T	T	8.3	EST
ROCKVILLE 1NE																																	2400
WASH GAS LIGHT																																	EST
SOUTH BOWIE	2.09	0.06	0.60		0.22											0.07					0.02		0.03			0.03			0.12		0.09	3.33	2400
HUDELSON					3.0		0.1			T				0.1	T	1.0	T				0.5		0.1	T		0.1				T		4.9	EST
OXON HILL	1.80	0.04	0.57		0.17	0.04								T	T	0.04	0.04				0.03		T	T		0.02			0.10	T	0.11	2.96	2000
SMITH					2.3	0.2								T	0.1	0.4	0.4				0.5		T	0.1		0.5			T	T		4.5	EST
HOLLYWOOD	0.69	0.06	T	T	T	0.10	T							0.04	0.04	0.18	0.05				0.06		T	T		0.07			0.08	0.17	0.07	1.61	2359
ABELL				T	T	0.3	T							0.5	0.5	3.0	0.7				1.0		0.1	0.2		0.8				1.5		8.6	EST
ORAVILLE																																	2400
VAN WIE																																	EST
RIDGE	0.86	0.02	0.35	T	T	0.07	T			T	T			0.01	0.03	0.23	0.10				T		T	T		T	T		0.11	0.21		1.99	2400
ZYLA				T	T	0.3	T			T	T			0.3	0.7	4.0	1.2				0.3		0.1	0.1		0.4	T			0.3		7.7	EST
HAGERSTOWN 1E	1.52	0.05	0.20	T	0.25	0.06				T	T			T	T	0.10	0.02		T	T			T			0.01		T	T	T	0.07	2.28	2400
KEEFER		T	0.9	T	3.1	0.7				T	T			T	0.1	2.1	0.4		T	T			T			0.2		T	T	T	0.1	7.6	EST
SMITHSBURG 2 NE	1.88	0.05	0.44	T	0.23	0.08	T			0.01	T		T		T	0.08	0.04		0.01				0.01	T		0.03			0.02	0.03		2.91	2000
VAUGHN		T	0.6	T	2.5	1.0	T			0.1	T		T		T	1.0	0.5		0.1				0.1	T		0.5			0.1	0.3		6.8	EST
SALISBURY	0.44	0.04	0.15			T	T								0.01	0.25	0.08				T		T	T		T	T		0.07	0.32	0.02	1.38	2400
NWS WICOMICO CO APT						T	T								0.1	2.5	1.2						T	T			T			T		3.8	EST
HANOVER 2 S, PA	1.30	0.08	0.75	T	0.30	0.06	0.02	T		0.02	0.02			T	T	0.03	0.05			T	T		T	0.01		0.14	T	T	0.02	T	0.05	2.85	2100
RICKELL		T	0.5	T	3.1	1.0	0.4	T		0.4	0.5			T	T	0.5	1.0			T	T		T	0.3		2.0	T	T	0.3	T	0.2	10.2	EST
WASH NATIONAL	1.52	0.05	0.39		0.20	0.01				T				T	T	0.03	T		T		0.02		T	T		T			0.08	T	0.11	2.41	2400
NWS ASOS					3.0	0.2								T	T	0.5	T		T		0.7		T	T		0.1				T		4.5	EST
WASH DULLES	1.73	0.05	0.34		0.32	0.03				T				T		0.04					T		T	T		0.01			0.01	T	0.16	2.69	2400
NWS ASOS					3.7	0.1				T				T		0.7					T		T	T		0.6				T		5.1	EST