



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

QUIET MONTH VERY FEW DAYS WITH PRECIPITATION

February 2004 was a dry month with little snowfall east of the mountains. Temperatures averaged slightly below normal over a majority of the region. NWS ASOS National Airport, Washington, saw its temperature average exactly normal.

The storm track this month was south of the region. Heavy snows fell in the Carolinas. This resulted in many dry frontal passages and limited the cloud cover at night both of which contributed to above average number of days where the minimum temperature fell to 32 degrees or below. There were three ACON observers who saw their minimum temperature drop to or below freezing every day: **Greg Latta** of **Frostburg**, **Lynn Albright** of **Fallston 2 NW**, and **Dave Leshner** of **Davis 3 SE, WV**. **Gary Gallaher** of **Bear 2 SW, DE** tied his station record of 28 days with the minimum temperature of 32 or below for the month of February.

The month began where January left off, that is cold! Temperatures fell below zero from Frostburg westward into West Virginia. This was the only sub zero temperatures of the month.

A low pressure system moved in from the Ohio Valley on the 3rd and brought with it the second heaviest precipitation event of the month. Snow fell in Western Maryland, a mixture of snow, sleet, and freezing rain in Central Maryland and rain elsewhere. A little sleet and / or freezing rain was reported at the onset of this event as far east as the western shore of the Chesapeake Bay.

The heaviest snows fell in Allegany County. 10.0" of snow was reported by **Nate Mullins** of **LaVale** and 7.6" by **Greg Latta** of **Frostburg**. Three to four inches fell west of Allegany County. Eastwards two to three inches fell in Washington County before it changed to rain.

Liquid amounts for the event ranged from around 1/2" to over an inch. The heaviest amounts fell in Washington County. **Jim Vaughn** of **Smithsburg 2 NE** reported 1.23", **Greg Keefer** of

Hagerstown 1 E 1.15" and **Mac Hutto** of **Smithsburg 1.5 SE** 1.01".

Sunny, breezy conditions moved into the region on the 4th. A low pressure system formed along the Central Gulf Coast on the 5th and moved northeastwards to the St Lawrence Valley. Between the storm and its associated cold front the heaviest rains of the month fell. Two plus inches of rain was common west of the Chesapeake Bay into West Virginia.

With cold air in place the precipitation began as sleet and or freezing rain the evening of the 5th and the pre-dawn hours of the 6th in Maryland. **Bobby Miller** of **Millers 4 NE** reported 3/8" of glaze and **Greg Keefer** of **Hagerstown 1 E** reported glaze 0.3" thick.

The heaviest liquid amounts reported by ACON observers were: 3.38" by **Dave Leshner** of **Davis 3 SE, WV** on the 6th & 7th, 2.49" by **Rebecca Harvey** of **Eagle Rock** on the 6th & 7th, 2.48" by **Manuel Farfan** of **Frederick 4 N** on the 5th & 6th, and 2.22" by **Greg Keefer** of **Hagerstown 1 E** on the 5th & 6th. Two ACON Observers reported a station record daily precipitation for the month of February: **Herb Close** of **Manchester 1 SW** 2.05" and **Bobby Miller** of **Millers 4 NE**, 1.95" which broke the old record of 1.94" set on 2/12/1985.

Wrap-around moisture dumped heavy snows on the Canaan Valley of West Virginia just south of the southwestern tip of Garrett County Maryland on the 8th. **Dave Leshner** of **Davis 3 SE, WV** observed 9.7".

The extreme northern portion of a southern storm brought 2 to 3 inches of snow to Southern Delaware and the lower Maryland Eastern Shore on the 17th and a half inch or less to St Mary's County.

The last event was a light one. On the 24th light snow and / or rain fell in the northern portions with rain elsewhere. The heaviest snow fell in Washington County where amounts were in the 1 to 3 inch range.

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Forest Glen	69
Six ACON Stations	68

MINIMUM TEMPERATURE

Davis 3 SE WV	-8
Eagle Rock	-6
Frostburg	-2

WARMEST AVG. TEMP.

Ridge	38.8
Baltimore 2 SE	38.4
Hollywood	38.0

COLDEST AVG. TEMP.

Davis 3 SE, WV	23.6
Eagle Rock	25.1
Frostburg	26.2

MAXIMUM PRECIPITATION

Davis 3 SE, WV	4.61
Smithsburg 2 NE	3.70
Owings Mills	3.58

MINIMUM PRECIPITATION

Jug Bay Wetlands	1.67
Ridge	1.80
UofD Res Ctr Georgetown DE	1.98

MAXIMUM SNOWFALL

Davis 3 SE WV	18.0
Eagle Rock	15.5
LaVale	12.0

The snow cover was slow to melt. With the early months rain and sub freezing nighttime temperatures the snow became hard as ice. Most of the cover melted by the end of the first week in Delaware and eastern Maryland, mid month in Central Maryland and the end of the month in Maryland's mountains.

Temperatures rose into the 50's on the 28th and 60's on the 29th east of the mountains.

OBSERVER COMMENTS FOR FEBRUARY 2004

Gary Gallaher of Bear 2 SW, DE

No measurable snow for the first February since 1998. 28 days with the minimum temperature 32 or below tied the record set in 1963 and tied in 1967, 1969, & 1978 (all non-leap years).

Nate Mullins of LaVale

3rd - Snow began after midnight and was heavy at times overnight and through the morning. Snow tapered off during the early afternoon hours. 10.0" fell making it the heaviest in a single day so far this season. The snow depth on the ground reached 23", also the highest of the season.

5th & 6th - Heavy snow began about 5 PM. 1/2" fell in 30 minutes before quickly changing to freezing rain. About 0.8" of glaze. By 7 AM of the 6th the glaze was 1.5" thick.

Dave Bryant of St Margarets

1st week cool, damp with rain, freezing rain, and a melting left over snow cover (down from 4.7" on the 1st to 1.0" on the 7th) from January.

Dan Hanson of Millersville 1 SE

For the period from the 8th - 29th only one day had measurable precipitation - 0.09" on the 24th.

Jeff Stoudt of Laurel 2 E

Only four days with measurable precipitation, none on Saturdays or Sundays.

Al Kreinik of Parkton 5 SW

Winter 2003-04 Stats. Avg max 39.4 (-2.0), Avg min 22.0 (-0.7), Avg temp 30.7 (-1.4), Precip 9.93", (-0.43), Snowfall 30.7"

6th - Very early sleet and freezing rain becoming heavy rain later AM. Considerable amount of standing water in fields and roads.

17th - End of continuous snow cover and / or patches of snow which has been on the ground since January 15th.

Joe Manfre of Baltimore 2SE

21st - Cloudy, AM sprinkles, then mild, partly cloudy.

24th - Cloudy, cold occasional light rain.

Marty Sharrow of Owings Mills

3rd - Wintry mix to steady rain and chilly.

Herb Close of Manchester 1 SW

The snow that fell in January settled and compacted to a hard snow cover that was as hard as ice, therefore it melted very slowly. 1" or more was on the ground for 22 days and a Trace or more for 29 days.

6th - 2.05" of rain set a daily record for the month of February.

Ralph Hartsock of Westminster 4 SSE

Not much action (weather-wise) this month.

Bobby Miller of Millers 4 NE

Winter 2003-04 Stats. Avg max 38.6 (-2.2), Avg min 23.1 (-2.1), Avg temp 30.9 (-2.2), Precip 10.06", (-0.02), Snowfall 34.7" (+10.2)

6th - Sleet followed by moderate freezing rain, 3/8" glaze), then rain heavy at times. Liquid total of 1.95" fell which broke the February record of 1.94" set on 2/12/85

26th - End of continuous snow cover and / or patches of snow which has been on the ground since January 15th.

Manuel Farfan of Frederick 4 N

28th - Warm with mostly sunny skies.

Rebecca Harvey of Eagle Rock

29th - Snow on ground: 24" woodlands, 0-4" fields.

Rich Giannola of JHU/APL

9th - Partial solar halo 1:30 PM

20th - Many contrails today.

Rob Cohen of Potomac 4 N

21st - Very windy.

Kevin Shaw of Gaithersburg 2 WNW

Temperatures were a bit above normal and precipitation a bit below normal.

29th - Record high of 66 set today broke the old record by 15 degrees (Leap year)

Joe Terry of Forest Glen

5th & 6th - Precipitation event began as sleet on the evening of the 5th, changed to freezing rain early on the 6th, then to rain just before dawn. Moderate glaze during AM on all surfaces.

19th - Sunny and much warmer. Quite a difference from 25 years ago this date - Presidents day Storm 2/19/79.

20th - First day to remain above freezing since January 5.

Bill Hudelson of South Bowie

Three days of freezing rain.

Brian Smith of Oxon Hill

20th - Warm front just to the north at obs time. 56 degrees here and 36 degrees at BWI.

Floyd Abell of Hollywood

3rd - Rain to mid afternoon. Evening black ice.

17th - Afternoon and evening light snow.

John Zyla of Ridge

Noticeable this month was the low numbers for snow and rain.

Mac Hutto of Smithsburg 1.5 SW

1st - Light snow from 6 AM to 3 PM, total 1.0"

Greg Keefer of Hagerstown 1 E

1st & 2nd - Very cold morning, 3 degrees each morning.

15th - Breezy and colder today. Temperature fell into the teens this evening.

29th - Partly cloudy and nice high of 61.

Jim Vaughn of Smithsburg 2 NE

Winter 2003-04 Stats. Avg max 39.0 (-1.7), Avg min 21.7 (-0.3), Avg temp 30.4 (-1.0), Precip 11.15", (+2.03), Snowfall 42.1" (+16.2)

This past winter was my 4th coldest and 4th snowiest.

Lance Shaffer of Sterling 4 N VA

6th - Freezing rain during predawn hours left a glaze up to 1/2" thick. Power out 6:10 AM to 8:30 AM.

Dave Leshner of Davis 3 SE WV

Snow cover decreased from 23" on the 1st to 8" on the 29th.

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
FEBRUARY 2004 SUMMARY**

OBSERVER	STATION COUNTY, STATE	TEMPERATURE									PEAK WIND			PRECIPITATION					SNOWFALL				OBS TIME		
		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
<u>New Castle, Delaware</u>																									
Canavan, Jim	Wilmington 4 NNE	41.3	25.1	33.2	60	29	10	1+	0	4	27				2.72	1.86	6	4.72	3	1	0.7	0.5	6	19.9	2400
Gallaher, Gary	Bear 2 SW	43.3	23.3	33.3	65	29	6	2	0	3	28	42	W	21	2.55	1.89	6	4.17	3	1	2.6	1.9	6	26.7	2400
NWS Wilmington	New Castle Co. Apt.	43.1	24.9	34.0	63	29	10	2	0	2	28	40	W	21	2.33	1.70	6	3.99	4	1	0.1	0.1	6	16.4	2400
U of D DE Climatologist	Newark Pearson Hall	43.4	27.6	35.5	64	29	12	1	0	0	23				2.02	1.47	6	2.84	4	1					2400
<u>Sussex, Delaware</u>																									
NWS Georgetown	Sussex Co. Airport	46.6	28.3	37.5	64	29	18	17	0	0	23				2.03	0.98	6	4.19	5	0					2400
U of D Research & Ed Ctr	Georgetown	45.9	26.6	36.3	63	29	15	2	0	1	25				1.98	1.03	5	4.02	4	1	2.0	2.0	18	8.0	2400
U of D Warrington Farm	Harbeson	45.2	25.2	35.2	64	29	13	2	0	0	25				2.31	1.29	9	4.50	5	1	3.0	3.0	18	11.0	2400
<u>Allegany, Maryland</u>																									
Latta, Greg	Frostburg	34.8	17.5	26.2	51	29	-2	1	0	9	29				2.88	1.65	6	6.14	6	1	11.4	4.8	3	62.8	0700
Mullins, Nate	LaVale	40.0	21.6	30.8	56	28	4	1	0	3	28				3.06	1.00	5+	6.15	5	2	12.0	10.0	3	53.3	2400
<u>Anne Arundel, Maryland</u>																									
Bryant, Dave	St. Margarets	45.9	26.4	36.2	67	29	13	1	0	0	28				2.94	1.95	6	4.89	5	1	0.5	0.5	6	17.6	2400
Hanson, Dan	Millersville 1 SE	45.4	23.1	34.3	68	29	7	2	0	1	28	41	NW	21	2.30	1.55	6	3.68	4	1	T	T	5	16.3	2400
Jug Bay Wetlands	Lothian	46.9	24.5	35.7	62	29	6	2	0	1	23				1.67	1.18	7	3.36	4	1	0.0	0.0		7.8	0900
NWS Baltimore	BWI Airport	44.3	25.3	34.8	65	29	8	1	0	0	27	45	W	21	2.40	1.62	6	3.66	4	1	0.1	0.1	6	18.1	2400
Stoudt, Jeff	Laurel 2 E	44.8	25.1	35.0	65	29	8	1	0	0	28				2.58	1.79	6	4.57	4	1	0.1	0.1	5	17.6	2400
<u>Baltimore, Maryland</u>																									
Kreinik, Al	Parkton 5 SW	42.2	23.2	32.7	63	29	4	1	0	1	28	42	W	21	2.82	1.89	6	4.69	3	1	0.2	0.1	5+	30.7	2200
Sharrow, Marty	Owings Mills 2 SE	41.2	23.5	32.4	61	29	7	1	0	3	28				3.58	1.89	6	5.51	5	1	0.9	0.8	7	30.4	2400
<u>Baltimore City, Maryland</u>																									
Manfre, Joe	Baltimore 2 SE	45.3	31.4	38.4	66	29	16	1	0	0	13				2.38	1.60	6	3.79	5	1	T	T	5	19.4	1800
Maryland Science Ctr	Baltimore Inner Harbor	44.4	30.9	37.7	65	29	16	1	0	0	15				2.39	1.63	6	3.47	4	1					2400
<u>Carroll, Maryland</u>																									
Close Jr, Herb	Manchester 1 SW	40.4	24.7	32.6	61	29	8	1+	0	3	25	45		7+	2.91	2.05	6	5.02	4	1	1.0	0.8	24	35.5	2300
Hartsock, Ralph	Westminster 4 SSE	39.8	23.4	31.6	57	29	6	1	0	3	28				2.93	2.03	6	4.75	3	1	T	T	24	29.9	2100
Klein, Greg	Westminster 5 SSE	38.1	22.6	30.4	56	29	6	16	0	3	27				2.87	2.00	6	4.73	3	1	0.3	0.3	24	34.5	2200
Miller, Bobby	Millers 4 NE	40.9	24.5	32.7	61	29	7	16	0	2	28	37	W	21	2.94	1.95	6	5.08	4	1	0.9	0.6	24	34.7	1800
<u>Frederick, Maryland</u>																									
Farfan, Manuel	Frederick 4 N	42.0	23.1	32.6	65	29	2	2	0	3	28				3.47	2.37	6	5.35	5	1	2.4	0.9	3	33.4	2400
<u>Garrett, Maryland</u>																									
Harvey, Rebecca	Eagle Rock	34.0	16.2	25.1	50	29	-6	1	0	14	28				3.39	2.25	6	8.59	8	1	15.5	4.0	8	112.4	0800
<u>Harford, Maryland</u>																									
Albright, Lynn	Fallston 2 NW	43.4	22.3	32.9	63	29	6	2	0	1	29	25	WNW	21	3.06	2.08	6	4.96	3	1	T	T	5+	30.9	2400
<u>Howard, Maryland</u>																									
Giannola, Rich	Laurel JHU / APL	43.5	27.6	35.6	64	29	11	1	0	1	22	40	WNW	21	1.99	1.15	6	3.77	5	1	T	T	24	22.3	2400

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FEBRUARY 2004 SUMMARY**

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		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
Cohen, Rob	Potomac 4 N	45.0	26.0	35.5	69	29	9	2	0	0	25				2.74	1.94	6	4.70	4	1	T	T	24	18.9	2100
Giannola, Rich	Olney 1 S	42.6	24.0	33.3	64	29	9	1	0	2	27				2.40	1.62	5-6	4.18	3	1	T	T	24	22.2	2400
Roth, David	Montgomery Village 1SW	43.4	25.3	34.4	64	29	10	2	0	1	28	21	21		2.37	1.57	6	4.00	5	1	0.2	0.2	6	21.2	2400
Rossen, Stan	Glenmont 1 NNE	45.3	24.4	34.9	68	29	7	2	0	0	28	20	21+		2.43	1.52	6	4.39	4	1	0.1	0.1	5	19.6	2400
Scafide, Tony	Bethesda	46.9	25.4	36.2	68	29	11	1	0	0	23	26	21		<u>0.64</u>	0.49	3	<u>1.32</u>	3	0					2400
Shaw, Kevin	Gaithersburg 2 WNW	43.8	23.0	33.4	66	29	6	1+	0	0	28				2.50	1.49	6	4.32	4	1	0.1	0.1	5	25.3	2400
Terry, Joe	Forest Glen	47.0	27.0	37.0	69	29	14	1+	0	0	26	37	WNW	21	2.45	1.55	6	4.45	4	1	0.2	0.1	5+	17.2	2400
Wash Gas Light	Rockville 1 NE	42.9	23.9	33.4	63	29	8	2	0	2	28				2.06	1.28	6	<u>3.71</u>	4	1	T	T	5	14.7	2400
<i>Prince Georges, Maryland</i>																									
Hudelson, Bill	South Bowie	44.1	26.9	35.5	62	29	13	1+	0	1	24	40	NW	21	2.72	2.08	6	4.64	3	1	0.3	0.3	5	13.9	2400
Smith, Brian	Oxon Hill	47.0	28.3	37.7	68	29	15	1	0	0	22				2.58	1.80	6	4.42	4	1	0.3	0.3	5	13.2	2000
<i>St. Marys, Maryland</i>																									
Abell, Floyd	Hollywood	47.2	28.7	38.0	68	29	15	1	0	0	23	27	21		2.12	1.44	6	4.89	4	1	0.3	0.3	17	7.0	2400
Van Wie, Michael	Oraville																								2400
Zyla, John	Ridge	46.8	30.7	38.8	68	29	17	1	0	1	20	27	20		1.80	1.14		4.49	5	1	0.5	0.5		5.7	2400
<i>Washington, Maryland</i>																									
Hutto, Max	Smithsburg 1.5 SW	40.3	23.1	31.7	63	29	4	1	0	5	26	34	SW+	10+	2.95	1.74	6	4.84	4	2	3.9	1.9	3	36.2	2400
Keefer, Greg	Hagerstown 1 E	40.3	21.8	31.1	61	29	3	1+	0	6	27	49	NW	21	3.57	2.12	6	5.94	4	2	4.1	2.2	3	36.2	2400
Vaughn, Jim	Smithsburg 2 NE	41.6	22.4	32.0	61	29	6	1	0	2	27				3.70	2.12	6	5.95	4	2	7.3	3.2	24	42.1	2000
<i>Wicomico, Maryland</i>																									
NWS Salisbury	Wicomico Co. Apt	46.6	24.0	35.3	63	29	13	2	0	0	27	36	NW	21	2.48	1.28	6	5.91	5	1	2.1	2.0	17	6.1	2400
<i>York, Pennsylvania</i>																									
Rickell, Robert	Hanover 2 S, PA																								2100
<i>Arlington, Virginia</i>																									
NWS Washington Nationa	National Airport	46.6	29.7	38.2	66	29	15	1	0	0	20	38	NW	7	2.28	1.60	6	3.63	4	1	T	T	5+	12.4	2400
<i>Loudon, Virginia</i>																									
NWS Washington Dulles	Dulles Airport	44.9	24.7	34.8	67	29	5	2	0	2	27	40	NW	4	1.93	1.20	6	4.12	4	1	T	T	3+	27.8	2400
Shaffer, Lance	Sterling 4 N	45.3	25.9	35.6	65	29	8	2	0	0	27				1.99	1.33	6	3.40	3	1	T	T	3	17.4	0800
<i>Tucker, West Virginia</i>																									
Leshner, Dave	Davis 3 SE WV	31.9	15.3	23.6	55	21	-8	1	0	19	29				4.61	2.42	6	10.72	10	1	18.0	9.7	8	137.4	1900
SECTION AVERAGE*		43.2	24.7	34.2											2.48						2.4				

*SECTIONAL AVERAGE DOES NOT INCLUDE
DATA FROM WEST VIRGINIA

NOTES:
M OR UNDERLINE= MISSING DATA
> = INCLUDED IN NEXT DAYS DATA

National Weather Service station data listed herein is preliminary and may be subject to change. The data has not been certified and cannot be used in legal actions.
Only reports certified by the National Climatic Data Center in Asheville, NC may be used for these purposes.
Accuracy of Data from ACON Observers not guaranteed.

GARY GALLAHER 04/10/04

ACON MD / DE / DC
FEBRUARY 2004 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 CANAVAN	33	38	35	38	34	32	39	29	42	47	37	40	40	45	31	32	38	42	50	48	52	44	47	43	39	42	45	56	60			41.3	2400
BEAR 2 SW, DE GALLAHER	31	41	45	41	34	28	43	31	44	51	38	39	42	46	32	33	39	43	52	49	54	46	45	46	42	42	48	58	65			43.3	2400
WILMINGTON, DE NWS NEW CASTLE CO APT	31	36	46	39	33	38	43	31	43	49	39	38	41	46	34	34	38	45	51	51	53	47	46	43	43	42	49	57	63			43.1	2400
U of D DE Climatologist Newark Pearson Hall	32	37	44	40	34	38	44	32	43	50	41	39	42	46	34	33	M	43	51	49	53	45	47	43	43	42	48	57	64			43.4	2400
GEORGETOWN, DE NWS SUSSEX CO APT	33	41	51	44	36	58	47	35	48	52	44	43	47	50	39	33	39	45	55	55	57	48	50	49	44	40	46	57	64			46.6	2400
GEORGETOWN, DE UofD RESEARCH & ED CTR	32	43	50	42	36	58	46	33	46	51	43	43	47	50	38	33	39	43	55	56	57	47	49	48	43	39	45	56	63			45.9	2400
HARBESON, DE UofD WARRINGTON FARM	33	40	50	43	34	58	46	34	48	51	44	42	47	50	37	33	37	42	53	53	57	47	45	47	42	37	42	56	64			45.2	2400
FROSTBURG LATTA	14	28	30	36	30	30	37	29	27	39	39	33	41	33	37	37	25	30	34	48	49	35	33	39	36	34	33	42	51			34.8	0700
LAVALLE MULLINS	26	34	31	36	34	33	36	36	36	42	42	39	36	39	30	39	36	45	52	52	40	37	42	40	48	41	50	56	52			40.0	2400
ST MARGARETS BRYANT	35	39	41	42	36	36	44	36	47	53	45	43	48	52	37	34	40	47	57	57	60	50	47	47	44	43	47	57	67			45.9	2400
MILLERSVILLE 1SE HANSON	34	37	39	41	35	35	44	32	47	52	41	42	46	51	39	34	38	47	58	58	55	48	49	48	45	43	51	61	68			45.4	2400
LOTHIAN JUG BAY	27	38	44	40	44	36	45	45	M	50	57	47	45	52	51	42	38	39	49	59	60	58	48	51	48	44	M	62			46.9	0900	
BALTIMORE NWS BWI APT	33	36	39	40	35	35	42	33	46	51	41	44	46	49	37	35	37	45	56	55	54	47	49	43	43	42	49	59	65			44.3	2400
LAUREL 2 E STOUDT	34	38	38	41	36	34	44	33	45	51	43	44	48	49	38	35	37	44	56	56	55	45	48	42	44	43	52	60	65			44.8	2400
PARKTON 5SW KREINIK	36	43	40	40	38	35	39	33	41	48	38	40	41	43	36	31	36	40	51	51	49	44	47	37	40	40	48	57	63			42.2	2200
OWINGS MILLS 2SE SHARROW	31	37	38	37	35	33	40	30	42	47	40	42	40	44	33	30	37	40	51	50	48	43	46	39	39	40	46	55	61			41.2	2400
BALTIMORE 2SE MANFRE	33	36	41	43	35	37	45	35	48	52	45	44	45	50	40	35	38	47	57	57	53	47	50	43	44	42	48	58	66			45.3	1800
BALT INNER HARBOR MD SCIENCE CENTER	16	24	28	31	30	30	32	26	26	36	35	33	34	34	24	18	25	29	36	37	41	36	33	34	31	31	34	35	36			44.4	2400
MANCHESTER 1SW CLOSE	33	38	38	39	33	34	40	30	41	46	38	40	40	31	29	34	39	50	48	48	44	46	35	39	39	46	56	61			40.4	2300	
WESTMINSTER 4 SSE HARTSOCK	27	37	38	38	36	33	37	27	42	43	38	43	37	44	36	25	38	37	47	48	48	41	45	37	37	41	44	53	57			39.8	2100
WESTMINSTER 5 SSE KLEIN	25	35	35	34	35	34	34	25	39	41	37	40	35	41	33	25	36	36	45	47	46	40	44	37	36	39	43	51	56			38.1	2200
MILLERS 4NE MILLER	33	42	39	39	33	34	39	31	40	46	40	39	39	39	36	29	36	39	50	50	47	43	45	38	39	38	47	56	61			40.9	1800
FREDERICK 4 N FARFAN	31	34	41	39	32	33	41	34	41	49	40	43	42	44	40	28	37	41	54	53	49	44	45	36	42	40	47	58	65			42.0	2400
EAGLE ROCK HARVEY	12	34	32	32	26	32	49	22	28	36	40	35	40	30	34	34	20	30	35	49	50	32	32	42	34	38	32	25	50			34.0	0800
	-6	10	22	20	10	20	22	4	8	20	20	20	18	20	0	2	16	18	35	30	20	16	20	10	14	18	18	25			16.2	EST	

ACON MD / DE / DC
FEBRUARY 2004 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	
FALLSTON 2 NW	34	41	41	41	37	35	44	33	45	49	39	42	42	46	33	32	40	44	52	50	52	46	48	42	42	42	47	58	63			43.4	2400	
ALBRIGHT	7	6	18	22	19	28	29	19	17	26	23	24	26	25	20	10	13	23	25	27	30	29	23	28	25	25	26	27	26			22.3	EST	
LAUREL JHU / APL	29	38	38	38	35	35	42	33	46	52	41	43	45	47	38	34	38	42	55	56	51	44	48	42	41	41	47	58	64			43.5	2400	
GIANNOLA	11	16	23	29	24	29	29	23	27	34	30	30	32	33	21	14	20	26	35	33	36	34	29	30	27	27	32	32	34			27.6	EST	
POTOMAC 4N	35	40	38	42	35	33	41	36	45	54	44	43	48	47	37	35	37	45	60	58	53	45	49	40	46	41	49	59	69			45.0	2100	
COHEN	10	9	26	28	21	30	30	23	21	29	30	30	27	28	23	15	20	25	27	31	38	33	24	34	26	28	33	26	29			26.0	EST	
OLNEY 1 S	31	38	37	39	36	33	41	33	44	49	40	42	43	46	37	32	38	43	55	55	51	45	48	40	42	41	49	>	64			42.6	2400	
GIANNOLA	9	12	23	24	19	28	28	21	22	29	28	28	26	27	21	13	18	22	28	31	35	27	22	29	24	24	29	>	26			24.0	EST	
MONTGOMERY VILLAGE	32	40	38	40	37	34	42	33	45	48	40	44	43	46	36	33	38	42	55	56	52	45	48	42	42	42	49	57	64			43.4	2400	
ROTH 1SW	12	9.7	26	25	21	31	30	22	24	29	29	30	27	27	21	14	18	23	31	30	37	30	24	31	25	26	29	28	26			25.3	EST	
GLENMONT 1NNE	35	40	39	42	36	34	44	36	47	54	44	44	48	47	37	34	37	44	57	59	55	46	51	41	43	41	49	61	68			45.3	2400	
ROSSEN	12	7	23	23	19	29	30	21	20	29	29	29	26	26	22	15	19	23	28	29	34	28	24	30	25	26	31	27	25			24.4	EST	
BETHESDA	37	40	39	39	M	M	M	37	47	53	44	45	48	48	41	36	39	45	58	58	55	48	51	44	46	43	53	60	68			46.9	2400	
SCAFIDE	11	12	24	36	M	M	M	23	24	29	30	29	27	27	21	13	19	24	29	33	37	28	24	29	24	25	31	27	28			25.4	EST	
GAITHERSBURG 2WNW	35	39	39	41	36	33	41	35	43	50	43	41	45	43	37	33	38	43	57	56	52	44	48	39	43	40	50	59	66			43.8	2400	
SHAW	6	6	25	27	19	29	29	17	23	26	29	28	25	24	19	10	14	20	31	28	35	27	21	31	21	22	28	26	21			23.0	EST	
FOREST GLEN	37	42	40	44	37	35	45	37	47	55	45	45	50	48	42	37	38	48	60	59	56	48	51	43	47	43	54	62	69			47.0	2400	
TERRY	14	14	27	27	23	30	30	24	27	31	31	31	28	29	23	15	21	24	31	35	39	31	26	30	25	27	33	28	29			27.0	EST	
ROCKVILLE 1NE	31	38	40	39	39	33	40	32	44	52	40	42	44	48	35	33	35	40	54	54	60	42	47	38	40	38	47	56	63			42.9	2400	
WASH GAS LIGHT	11	8	24	23	22	27	27	21	25	29	27	26	28	26	19	12	15	23	29	28	34	29	25	28	23	24	29	28	24			23.9	EST	
SOUTH BOWIE	33	40	38	40	35	34	44	33	46	51	42	42	46	49	38	32	38	44	56	55	55	45	47	46	43	40	48	56	62			44.1	2400	
HUDELSON	13	13	14	26	20	30	31	24	23	36	30	29	29	27	25	17	30	28	32	32	40	33	26	34	28	25	33	27	26			26.9	EST	
OXON HILL	36	41	41	43	37	35	45	37	49	55	45	45	52	52	42	36	39	46	61	62	56	46	50	44	45	42	52	60	68			47.0	2000	
SMITH	15	17	28	27	23	29	33	26	26	34	34	32	28	29	25	18	20	28	30	36	42	32	27	33	28	27	35	30	29			28.3	EST	
HOLLYWOOD	36	41	46	45	36	38	50	39	51	54	47	40	54	51	40	33	38	48	60	59	61	49	49	49	45	38	46	59	68			47.2	2359	
ABELL	15	17	25	25	24	31	33	27	27	39	29	30	28	31	28	21	30	29	29	36	40	29	27	33	29	28	34	27	30			28.7	EST	
ORAVILLE																																		2400
VAN WIE																																		EST
RIDGE	33	36	46	47	37	45	51	40	51	52	46	39	55	51	40	32	37	49	62	58	62	51	44	44	43	38	46	55	68			46.8	2400	
ZYLA	17	24	29	28	31	31	32	27	26	30	32	32	31	38	28	22	26	28	35	35	39	34	32	34	29	31	34	34	42			30.7	EST	
SMITHSBURG 1.5 SW	31	31	38	37	33	34	38	33	42	48	38	41	41	41	31	27	36	39	50	55	47	42	44	39	39	28	45	57	63			40.3	2400	
HUTTO	4	7	26	22	19	29	27	19	22	35	26	26	25	30	17	7	16	17	27	33	36	27	22	28	24	22	27	22	27			23.1	EST	
HAGERSTOWN 1E	31	31	37	37	32	32	38	34	39	48	39	40	41	42	31	28	34	41	53	52	46	42	42	35	41	38	47	56	61			40.3	2400	
KEEFER	3	3	19	22	18	27	27	18	15	33	26	26	27	30	16	10	13	16	27	29	34	28	21	27	24	24	26	21	22			21.8	EST	
SMITHSBURG 2 NE	34	38	38	36	36	36	39	31	41	50	39	41	38	39	35	31	40	42	50	54	46	42	48	45	36	40	44	55	61			41.6	2000	
VAUGHN	6	7	25	26	18	25	26	16	20	32	24	24	25	30	10	6	17	16	32	33	34	28	23	26	22	22	26	24	28			22.4	EST	
SALISBURY	33	44	50	42	39	61	47	35	47	51	45	40	49	52	41	35	36	42	56	56	58	48	48	49	44	38	46	55	63			46.6	2400	
NWS WICOMICO CO APT	16	13	26	23	20	34	32	19	19	29	24	25	25	25	26	16	16	24	24	25	41	28	25	27	25	26	22	22	20			24.0	EST	
HANOVER 2 S, PA																																		2100
RICKELL																																		EST
WASH NATIONAL	34	39	42	43	36	37	46	37	49	54	45	44	51	51	42	36	38	46	60	59	59	47	48	44	45	42	51	59	66			46.6	2400	
NWS ASOS	15	18	28	31	26	31	32	26	26	34	34	33	30	32	25	19	25	28	33	36	42	36	31	33	29	30	35	31	31			29.7	EST	
WASH DULLES	32	39	41	40	36	33	42	37	46	55	43	42	49	47	38	32	38	43	59	62	55	45	48	43	44	40	48	59	67			44.9	2400	
NWS ASOS	12	5	28	23	18	30	30	23	19	28	29	28	24	26	22	16	16	24	25	28	40	31	22	33	27	28	32	26	22			24.7	EST	
STERLING 4 N	33	39	39	43	35	34	42	37	45	54	45	43	50	49	39	35	40	43	59	61	55	46	48	40	46	41	50	58	65			45.3	0800	
SHAFFER	12	8	24	25	21	30	31	23	20	29	30	30	28	28	24	16	20	24	28	30	39	31	25	35	29	27	32	24	27			25.9	EST	
DAVIS 3 SE WV	9	25	32	33	22	39	43	23	22	31	33	29	33	29	32	28	27	32	30	43	55	28	27	44	32	31	29	37	46			31.9	1900	
LESHER	-8	6	25	19	13	21	23	10	10	17	16	15	16	16	15	2	6	15	15	27	28	19	15	19	14	14	16	20	21			15.3	EST	

**ACON MD / DE / DC
FEBRUARY 2004 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 CANAVAN			0.80			1.86 0.5																		0.06 0.2								2.72 0.7	2400 EST
BEAR 2 SW, DE GALLAHER			0.57 0.6		T T	1.89 1.9			T T	T T							T T				T T			0.09 0.1								2.55 2.6	2400 EST
WILMINGTON, DE NWS NEW CASTLE CO APT			0.56		T T	1.70 0.1	0.01			T											T			0.06 T								2.33 0.1	2400 EST
U of D DE Climatologist Newark Pearson Hall			0.46			1.47	0.03																	0.06								2.02 -	2400 EST
GEORGETOWN, DE NWS SUSSEX CO APT			0.82		T	0.98	0.03										0.19	0.01			T			T								2.03 -	2400 EST
GEORGETOWN, DE UoD RESEARCH & ED CTR			0.81			1.03	0.05											0.09 2.0														1.98 2.0	2400 EST
HARBESON, DE UoD WARRINGTON FARM			0.72	T		1.29	0.04										0.01	0.25 3.0														2.31 3.0	2400 EST
FROSTBURG LATTA			0.63 4.8	0.34 2.8		1.65 1.5	0.21 1.4	0.04			T 0.4										T T	T T		0.01 0.5	T T							2.88 11.4	0700 EST
LAVALE MULLINS			0.96 10.0		1.00 1.3	1.00 0.2	T T					T T									0.02 T			0.08 0.5								3.06 12.0	2400 EST
ST MARGARETS BRYANT			0.84 T		0.04 T	1.95 0.5	0.03 T			T T														0.08								2.94 0.5	2100 EST
MILLERSVILLE 1SE HANSON			0.64		0.02 T	1.55 T																		0.09								2.30 T	2400 EST
LOTHIAN JUG BAY			0.02			0.44	1.18		M																0.03							1.67 0.0	0900 EST
BWI NWS ASOS			0.67		0.02 T	1.62 0.1																		0.09								2.40 0.1	2400 EST
LAUREL 2 E STOUDT			0.65 T		0.03 0.1	1.79 T																		0.11								2.58 0.1	2400 EST
PARKTON 5SW KREINIK			0.81		T T	1.89 0.1																		0.12 0.1	T							2.82 0.2	2200 EST
OWINGS MILLS 2SE SHARROW			0.75 T		0.02 0.1	1.89 T	0.80 0.8																	0.12 T								3.58 0.9	2400 EST
BALTIMORE 2SE MANFRE			0.65		0.02 T	1.60	0.01																	0.10								2.38 T	1800 EST
BALT INNER HARBOR MD SCIENCE CENTER			0.64		0.02	1.63																		0.10								2.39 -	2400 EST
MANCHESTER 1SW CLOSE			0.72 T		0.01 0.1	2.05 0.1																		0.13 0.8		0.0	0.0					2.91 1.0	2300 EST
WESTMINSTER 4 SSE HARTSOCK			0.81			2.03																		0.09 T								2.93 T	2100 EST
WESTMINSTER 5 SSE KLEIN			0.74			2.00																		0.13 0.3								2.87 0.3	2200 EST
MILLERS 4NE MILLER			0.82			1.95 0.3	0.04																	0.13 0.6	T T							2.94 0.9	1800 EST
FREDERICK 4 N FARFAN			0.84 0.9		0.11 0.5	2.37 0.3																		0.14 0.7								3.47 2.4	2400 EST
EAGLE ROCK HARVEY			0.25 2.0	0.25 2.0		2.25 3.0	0.24 2.0	0.20 4.0			T T													0.02 T	0.13 2.0	T						3.39 15.5	800 EST

ACON MD / DE / DC
FEBRUARY 2004 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
FALLSTON 2 NW ALBRIGHT			0.89		T T	2.08 T	T		T												T			0.09							3.06 T	2400 EST	
LAUREL JHU / APL GIANNOLA			0.65		0.04	1.15	0.05																	0.10 T							1.99 T	2400 EST	
POTOMAC 4N COHEN			0.62		0.05	1.94																		0.13 T							2.74 T	2100 EST	
OLNEY 1 S GIANNOLA			0.68		> T	1.62 T																		0.10 T							2.40 T	2400 EST	
MONTGOMERY VILLAGE ROTH 1SW			0.64		0.05	1.57 0.2	0.01																	0.10							2.37 0.2	2400 EST	
GLENMONT 1NNE ROSSEN			0.71 T		0.08 0.1	1.52 T			T															0.12							2.43 0.1	2400 EST	
BETHESDA SCAFIDE		0.02	0.49		M	M	M																	0.13							0.64	2400 EST	
GAITHERSBURG 2WNW SHAW			0.66		0.21 0.1	1.49															T			0.14 T							2.50 0.1	2400 EST	
FOREST GLEN TERRY			0.70		0.07 0.1	1.55 0.1			T	T														0.13							2.45 0.2	2400 EST	
ROCKVILLE 1NE WASH GAS LIGHT			0.60		0.08 T	1.28 T	T		T	T														0.10							2.06 T	2400 EST	
SOUTH BOWIE HUDELSON			0.63		0.01 0.3	2.08																									2.72 0.3	2400 EST	
OXON HILL SMITH			0.62		0.06 0.3	1.80 T	T																	0.10							2.58 0.3	2000 EST	
HOLLYWOOD ABELL			0.62			1.44						T T					0.04 0.3							0.02							2.12 0.3	2359 EST	
ORAVILLE VAN WIE																																2400 EST	
RIDGE ZYLA			0.58			1.14	0.03					0.02 T					0.03 0.5							T T							1.80 0.5	2400 EST	
SMITHSBURG 1.5 SW HUTTO			1.01 1.9		0.07 0.5	1.74 0.5																		0.13 1.0							2.95 3.9	2400 EST	
HAGERSTOWN 1E KEEFER			1.15 2.2		0.10 0.5	2.12 0.3			T T												T T			0.20 1.1							3.57 4.1	2400 EST	
SMITHSBURG 2 NE VAUGHN			1.23 3.1		0.04 0.4	2.12 0.6	T T														T			0.31 3.2							3.70 7.3	2000 EST	
SALISBURY NWS WICOMICO CO APT			0.90		T	1.28	0.09		T			T					0.20 2.0	0.01 0.1			T			T							2.48 2.1	2400 EST	
HANOVER 2 S, PA RICKELL																																2100 EST	
WASH NATIONAL NWS ASOS			0.53		0.07 T	1.60 T	T																	0.08							2.28 T	2400 EST	
WASH DULLES NWS ASOS			0.50 T		0.13 T	1.20 T																		0.10 T							1.93 T	2400 EST	
STERLING 4 N SHAFFER			0.5 T			1.3																		0.1							1.99 T	0800 EST	
DAVIS 3 SE WV LESHER	T T		0.27 1.1	0.20 1.9	T T	2.42 0.2	0.96 0.7	0.43 9.7	0.01 0.3	T T	0.02 0.5		T T								0.09 T	0.16 2.9			0.05 0.7					4.61 18.0	1900 EST		