



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

EARLY MONTH HEAVY SNOW CHRISTMAS WINTER STORM

Below normal temperatures, which gripped the region this fall, continued into December. Temperatures the first two weeks of the month averaged well below normal while the balance of the month was more seasonable. Precipitation was above normal for the fourth consecutive month. The cold temperatures along with the above normal precipitation brought with it heavier than average snows. Snowfall totals of a foot or more occurred from Harford County westward while 6 to 12 inches fell elsewhere except for St Marys and Wicomico Counties where 4 inches fell.

The month began on a cold note. An arctic cold front moved through the region early on the third. Temperatures fell rapidly from around 40 to the teens and 20's. This cold air set the stage for a major early winter snowstorm which moved up from the southwest on the 5th. The snow began shortly after midnight in the south and west and ended by mid afternoon in the east and north. It changed to freezing rain and rain south and east of Washington DC. This snow had a high moisture content. Snowfall amounts of 8" or more were reported by ACON observers are: **Rob Rickell** of **Hanover 1 S PA 9.5"**, **Rebecca Harvey** of **Eagle Rock 9.0"**; **Bobby Miller** of **Millers 4 NE 8.4"**; **Marty Sharrow** of **Owings Mills** and **Greg Keefer** of **Hagerstown 1 E 8.2"**; **Greg Klein** of **Westminster 5 SSE**, **Lynn Albright** of **Fallston 2 NW**, **Jim Canavan** of **Wilmington 4 NNE** each 8.0". Ideal conditions for low temperatures—clear skies, no wind, and a good snow cover—permitted temperatures to fall to record levels on the morning of the 7th. Here are the coldest as reported by ACON observers: **Al Kreinik** of **Parkton 5 SSW** and **Greg Keefer** of **Hagerstown 1 E** each +1 degree; **Rob Rickell** of **Hanover 1 S PA** 2 degrees; **Lynn Albright** of **Fallston 2 NW** and **Kevin Shaw** of **Gaithersburg 2 WNW** each 3 degrees; **Ralph Hartsock** of

Westminster 4 SSE and **Stan Rossen** of **Glenmont 1 NNE** each 5 degrees.

The wettest storm of the month hit the region on the 11th. Precipitation amounts were generally in the 1.5 to 2 inch range. Freezing rain was observed west of the Chesapeake Bay with the greatest ice accumulations west and north of Baltimore. **Bobby Miller** of **Millers 4 NE** lost electric power for almost 20 hours. (More details concerning this storm in the Observer Notes section.)

Temperatures the last two and a half weeks were "fairly" seasonable. Two storm systems moved through the region. A storm system pulled the warmest air of the month into the region along with a good rain on the 20th. Maximum temperatures ranged from the mid 50's to mid 60's. Rainfall amounts ranged from a quarter of an inch in Montgomery County to around an inch in New Castle County Delaware.

The last major storm of the month arrived Christmas Eve as light snow except for St Marys County where it was mostly rain. Christmas Day saw the snows change to freezing rain and then to all rain except for Washington County where it remained all snow. The rains then changed back to wet snow. The heaviest snows fell north and west of Baltimore. 7.5" fell at **Owings Mills**, 7.1" fell at **Millers 4 NE**, 7.0" fell at **Manchester 1 SW**, 6.6" fell at **Parkton 5 SSW** and **Smithsburg 2 NE**, 6.5" fell at **Westminster 5 SSE**, and 6.0" fell at **Westminster 4 SSE**. Liquid amounts of over an inch fell east of Washington County except for southern Delaware and the lower Eastern Shore of Maryland. **Greg Keefer** of **Hagerstown 1E** noted that this was only the second time that significant snows fell on both Christmas Eve and Christmas day. Records at Hagerstown go back to the 1890's. **Joe Terry** of **Forest Glen** recorded his lowest barometric pressure since March 1999. **Ralph Hartsock** said that this was the "best snow on Christmas since 1969". **Jim Vaughn** of **Smithsburg 2 NE** remarked that this was the first Christmas snowfall since 1993.

EXTREMES REPORTED BY

ACON OBSERVERS

MAXIMUM TEMPERATURE

Ridge	66
UofD Georgetown	65
Hollywood	65

MINIMUM TEMPERATURE

Eagle Rock	0
Parkton 5 SSW	1
Hagerstown 1 E	1

WARMEST AVG. TEMP.

Ridge	37.8
Baltimore 2 SE	37.5

COLDEST AVG. TEMP.

Eagle Rock	25.8
Hanover 2 S PA	29.1

PRECIPITATION

UofD Georgetown	2.92
Ridge	3.66

MAXIMUM SNOW

Eagle Rock	23.9
Millers 4 NE	16.2
Hanover 2 S PA	15.7

MINIMUM SNOW

Hollywood	3.1
Oraville	4.1
Ridge	4.4

Member News

Al Kreinik of **Parkton 5 SW** continues his recovery from successful heart bypass surgery on December 17.

Data Update

ACON reports for 1992 to 1996 have been added to our web site.

2002 Annual Report

This report will be issued in a week or so. This is being done so the December report is not delayed. Please forward any missing 2002 data **ASAP**.

OBSERVER COMMENTS FOR DECEMBER 2002

Gary Gallaher of Bear 2 SW, DE

5th -- Second heaviest December snowfall on record.

7th -- 6 degrees this morning set the record for the coldest so early in the winter season.

25th -- Minimum barometric pressure of 29.12" which is a December record and the lowest since 3/13/93 when the station record low barometric pressure of 28.41" occurred. (Barometric pressure records since 2/1992)

Dave Bryant of St Margarets

December precipitation 84% above normal. Precipitation for the year 8% below normal, while 2001 was 4% below normal. Going back to the beginning of the drought (July 1998) precipitation 191.0", which is 5.50" which is 3% above normal.

Dan Hanson of Millersville 1 SE

5th -- Heaviest December snowfall since 1982.

Jug Bay Wetlands of Lothian

5th -- Snow started last night and ended around noon today. 6" accumulation.

31st-- Heavy fog.

Al Kreinik of Parkton 5 SW

11th -- Icy rain. Anemometer cups frozen from 9AM to 2:30 PM.

Marty Sharrow of Owings Mills

25th -- Freezing rain to rain and then to heavy snow.

Joe Manfre of Baltimore 2SE

20th -- Cloudy, not as cold, light rain in late PM.

31st -- Variable clouds, mild.

Ralph Hartsock of Westminster 4 SSE

1st -- Few flurries, windy, and cold.

3rd -- Very cold and windy, early flurry, 20's all day.

11th -- Ice storm - Heavy freezing rain - tree damage.

20th -- Heavy AM showers, clearing late AM.

28th -- Sunny, then late clouds, dusting of snow late.

Greg Klein of Westminster 5 SSE

11th -- Heavy freezing rain, 1/4" to 1/2" accumulated on every surface. Tree damage in area caused some power outages.

Bobby Miller of Millers 4 NE

11th -- Heavy ice storm, 1/2" ice accumulation. Tree damage. Power out for 19 hours 50 minutes.

19th -- Evening drizzle and fog.

20th -- Morning moderate to heavy rain showers.

24th - 25th -- Snow, changed to periods of sleet, then freezing rain, then heavy rain, and back to snow heavy at times with visibility as low as 1/8th mile.

Lynn Albright of Fallston 2 NW

18th -- Heavy frost

Rich Giannola of JHU/APL OF Laurel

16th -- Sundogs at 3:30 PM.

Rob Cohen of Potomac 4 N

Record low minimum temperatures on the 3rd, 4th, 6th, 7th (coldest so early in season), & 8th. Snowiest De-

ember since 1989.

11th -- Freezing rain 1/8" to 1/4" accumulation.

Stan Rossen of Glenmont 1 NNE

7th -- Earliest date the temperature fell below 10 degrees. Old record was 7 degrees on 12/12/88

Kevin Shaw of Gaithersburg 2 WNW

7th -- Earliest single digit reading ever recorded.

Joe Terry of Forest Glen

15 days with snow on the ground this month.

3rd -- Strong FROPA ~0315. Temperature fell from 40 degrees to mid 20's and dew point fell from 25 to 0 degrees by 0900.

4th -- Coldest this early in the season since station inception (1994) 14 degrees.

25th -- Lowest barometric pressure, 29.26", since March 1999

Bill Hudelson of South Bowie

11th -- Overcast, freezing rain in morning with brief period of sleet, light fog afternoon, rain ending 2130.

28th & 30th -- Heavy AM frost.

31st -- Dense early morning fog.

Brine Smith of Oxon Hill

11th -- -FZRA/FZRA 0200-1000; -RA 1000-1700. About 0.1" glaze.

Floyd Abell of Hollywood

5th -- Snow before dawn then sleet and freezing rain.

24th & 25th -- Rain mixed with snow and sleet.

John Zyla of Ridge

25th & 26th -- Large barometric pressure change: 24 hours 0.85"; 33 hours 1.00".

Greg Keefer of Hagerstown 1 E

7th -- Record minimum temperature of +1degrees. Old record was 9 set in 1910.

8th -- Tied record low of 13 set in 1937. Temperatures shot up to 44 by late morning.

11th -- Freezing rain fell all day and was moderate to heavy at times. Moderate to heavy ice accumulation on everything. 0.3" of ice was on the ground. Freezing drizzle this evening.

24th & 25th -- Accumulating snow on both days is rare. The only other time this occurred was in 1962.

Jim Vaughn of Smithsburg 2 NE

Record December snowfall. Old record was 12.6" in 1996. This was the 5th consecutive month with above normal precipitation. Twelve days with wind gusts of 40+ MPH.

11th -- Freezing rain left a coating of 0.4" on everything.

31st -- Record maximum temperature of 55 degrees.

Robert Rickell of Hanover 2 S PA

5th -- Fluffy, dry snow

7th -- York PA airport had an impressive -9 degrees!

11th -- Sleet and Freezing rain. Glaze 1/2" thick.

25th -- Snow, sleet, freezing rain

ACON MD /DE / DC
DECEMBER 2002 SUMMARY

OBSERVER	STATION	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 CAL	DATE	DAYS >=.01"	DAYS >=1"	YEAR	TOTAL	MAX CAL		DATE	SEA- SON
<i>New Castle, Delaware</i>																									
Canavan, Jim	Wilmington 4 NNE	39.3	26.1	32.7	57	18+	11	7	0	4	22				4.53	1.70	11	5	2	41.59M	10.0	8.0	5	10.0	2400
Gallaher, Gary	Bear 2 SW	41.9	24.7	33.3	63	20	6	7	0	3	24	41	NNW+	16+	5.56	1.51	11	8	3	43.67	8.9	6.9	5	8.9	2400
Wilmington NWS ASOS	New Castle Co. Apt.	41.6	26.9	34.3	59	20	10	7	0	3	24	45	W	25	4.51	1.38	11	9	1	39.80	9.0	6.8	5	9.0	2400
U of D DE Climatologist	Newark Pearson Hall	42.0	28.5	35.3	63	20	14	7	0	1	23				4.12	1.33	25	9	2	34.88M					2400
<i>Sussex, Delaware</i>																									
Georgetown NWS ASOS	Sussex Co. Airport	46.5	28.6	37.6	65	20	16	7	0	1	21	41	W	20	3.94	1.15	5	7	2	47.19					2400
U of D Research & Ed Ct	Georgetown	45.9	27.6	36.8	65	20	13	7	0	1	21				2.92	0.81	11	7	0	41.46					2400
U of D Warrington Farm	Harbeson	45.9	26.9	36.4	64	20	14	7	0	0	21				3.22	1.01	11	8	1	9.10M					2400
<i>Anne Arundel, Maryland</i>																									
Bryant, Dave	St. Margarets	42.5	27.2	34.9	57	22	15	7	0	0	25				6.02	1.52	11	10	2	44.55	8.1	3.5	4	8.1	0700-P 1700-T
Hanson, Dan	Millersville 1 SE	42.6	23.5	33.1	59	31	6	7	0	2	29	39	WNW	25	5.21	1.45	11	8	2	45.24	9.4	7.0	5	9.4	2400
Jug Bay Wetlands	Lothian	43.8	25.3	34.6	61	20+	6	7	0	4	23				5.60	1.48	25	11	2	44.25	6.0	6.0	5	6.0	2400
Baltimore NWS ASOS	BWI Airport	42.6	25.9	34.3	58	20	6		0	2	25	41	W	1+	4.96	1.61	11	8	2	39.30	9.7	7.4	5	9.7	0900
Stoudt, Jeff	Laurel 2 E	-	-	-	-	-	-	-	-	-	-				5.34	1.83	11	8	2	44.67	9.0	6.5	5	9.0	2400
<i>Baltimore, Maryland</i>																									
Kreinik, Al	Parkton 5 SW	40.3	21.8	31.1	56	20	1	7	0	2	29	46	WNW	16	5.29	1.93	11	8	2	43.94	14.1	7.4	5	14.6	2200
Sharrow, Marty	Owings Mills 2 SE	38.7	23.0	30.9	56	20	7	7	0	4	29	38		25	4.70	1.60	11	8	2	39.67	15.7	8.2	5	15.7	2400
<i>Baltimore City, Maryland</i>																									
Manfre, Joe	Baltimore 2 SE	43.3	31.6	37.5	58	20	22	7	0	2	18				5.45	1.82	11	9	2	44.54	9.0	7.0	5	9.0	1800
Maryland Science Ctr	Baltimore Inner Harbor	43.1	31.0	37.1	58	20	20	7	0	1	18				5.31	1.75	11	8	2	39.54					2400
<i>Carroll, Maryland</i>																									
Close Jr, Herb	Manchester 1 SW	39.4	25.3	32.4	57	20	12	4	0	4	24				4.63	1.89	11	8	2	41.72	14.6	7.5	5	16.4	2100
Hartsock, Ralph	Westminster 4 SSE	39.3	24.6	32.0	57	20	5	7	0	6	26				4.62	1.76	11	7	2	41.61	13.0	7.0	5	13.5	2200
Klein, Greg	Westminster 5 SSE	37.1	22.5	29.8	55	20	9	4+	0	9	30				5.30	2.08	11	7	2	42.54	14.9	8.0	5	15.9	2200
Miller, Bobby	Millers 4 NE	40.0	24.8	32.4	57	20	6	7	0	3	27	39	W	1	5.40	1.95	11	11	2	43.23	16.2	8.2	5	17.5	1800
<i>Garrett, Maryland</i>																									
Harvey, Rebecca	Eagle Rock	34.0	17.5	25.8	52	20	0	4+	0	16	30				3.97	0.78	5	17	0	51.05	23.9	6.0	5	32.9	0800
<i>Harford, Maryland</i>																									
Albright, Lynn	Fallston 2 NW	41.7	21.4	31.6	57	20	3	7	0	2	29				6.11	1.92	11	7	2	49.25	12.0	8.0	5	12.0	2400
<i>Howard, Maryland</i>																									
Giannola, Rich	Laurel JHU / APL	55.0	33.0	44.0	59		9		0	2	24				4.86	1.49		9	2	47.99	9.5	6.5	5	9.5	2400

**ACON MD /DE / DC
DECEMBER 2002 SUMMARY**

OBSERVER	STATION	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 CAL	DATE	DAYS >=.01"	DAYS >=1"	YEAR	TOTAL	MAX CAL		DATE	SEA-SON
<i>Montgomery, Maryland</i>																									
Cohen, Rob	Potomac 4 N	41.9	26.5	34.2	58	20	8	7	0	2	24				5.13	1.95	11	7	2	48.00	8.7	6.0	5	8.7	2100
Giannola, Rich	Olney 1 S	42.5	25.7	34.1	58	20	11	7	0	3	17				4.53	1.60	11	7	2	41.46	9.8	7.0	5	9.8	2400
Rossen, Stan	Glenmont 1 NNE	43.3	24.9	34.1	60	20	5	7	0	2	26				5.01	1.68	11	8	3	43.09	9.7	6.9	5	9.7	2400
Scafide, Tony	Bethesda	43.4	26.1	34.8	60	20	12	7	0	2	24	22		25	4.38	1.01	7	13	1	40.11					2400
Shaw, Kevin	Gaithersburg 2 WNW	41.4	23.1	32.3	56	20	3	7	0	4	29				4.66	1.60	11	7	1	44.40	10.4	7.4	5	10.4	2400
Terry, Joe	Forest Glen	44.3	27.3	35.8	60	20	12	7	0	1	24	34	WNW	25	4.90	1.69	11	8	2	41.88	8.6	6.0	5	8.6	2400
Wash Gas Light	Rockville 1 NE	42.6	27.0	34.8	61	20	8	7	0	3	21				4.50	1.60	11	8	2	40.13	10.3	6.7	5	10.3	2400
<i>Prince Georges, Maryland</i>																									
Hudelson, Bill	South Bowie	42.0	26.2	34.1	59	20	8	7	0	3	26	40	NW	28	5.03	1.57	11	8	2	40.17	6.5	5.5	5	6.5	2400
Smith, Brian	Oxon Hill	45.6	28.1	36.9	63	31	13	7	0	2	17				4.86	1.48	11	7	2	37.93	7.0	5.0	5	7.0	2300
<i>St. Marys, Maryland</i>																									
Abell, Floyd	Hollywood	45.4	28.5	37.0	65	31	14	7	0	2	21	42		25	4.17	1.15	11	9	2	38.12	3.1	3.0	5	3.1	2400
Van Wie, Michael	Oraville	44.9	26.4	35.7	62	20+	10	7	0	1	22	45		25	4.20	1.20	11	8	1	36.79	4.1	4.1	5	4.1	2400
Zyla, John	Ridge	45.1	30.4	37.8	66	31	18	4	0	1	17	39		2	3.66	1.20	5	12	1	42.25	4.4	4.0	5	4.4	2400
<i>Washington, Maryland</i>																									
Keefer, Greg	Hagerstown 1 E	40.4	24.0	32.2	54	22+	1	7	0	3	24	43	NW	25	3.90	1.42	11	7	1	39.94	13.8	8.2	5	14.3	2400
Vaughn, Jim	Smithsburg 2 NE	39.6	24.7	32.2	56	20	9	7	0	5	23	54	N	16	4.11	1.40	11	8	1	40.80	14.8	7.2	5	16.6	2000
<i>Wicomico, Maryland</i>																									
Salisbury NWS ASOS	Wicomico Co. Apt	46.8	25.8	36.3	65	20	12	7	0	1	23	46	WNW	26	3.43	1.05	11	8	1	48.61	4.0	4.0	5	4.0	2400
<i>York, Pennsylvania</i>																									
Rickell, Robert	Hanover 2 S, PA	37.1	21.1	29.1	55	20	2	7	0	11	29				5.39	2.05	11	8	2	42.34M	15.7	9.5	5	15.7	2100
<i>Arlington, Virginia</i>																									
Wash National NWS	National Airport	44.2	30.2	37.2	61	20+	18	7	0	2	20	41	WNW	25	4.45	1.36	11	8	1	34.33	7.1	6.1	5	7.1	2400
<i>Loudon, Virginia</i>																									
Wash Dulles NWS ASOS	Dulles Airport	42.4	24.4	33.4	58	31	1	7	0	0	26	41	WNW+	25+	3.61	1.09		7	1	38.18	8.2	6.2	5	8.2	2400
SECTION AVERAGE		42.5	26.0	34.2											4.67										

NOTES:

M = MISSING DATA

> = INCLUDED IN NEXT DAYS DATA

GARY GALLAHER 1/24/03

ACON MD / DE / DC
DECEMBER 2002 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	34	42	42	32	29	30	33	42	26	33	34	41	37	44	45	41	36	37	46	57	46	50	45	37	36	37	33	39	42	43	49	39.3	2400																														
BEAR 2 SW, DE GALLAHER	37	45	40	31	31	34	36	45	32	34	37	44	43	47	48	43	37	39	46	63	50	54	48	39	37	40	33	42	45	44	55	41.9	2400																														
WILMINGTON, DE NWS NEW CASTLE CO APT	37	44	37	32	30	33	36	44	32	33	38	44	43	48	48	44	37	36	48	59	49	54	48	38	42	40	34	41	46	43	52	41.6	2400																														
U of D DE Climatologist Newark Pearson Hall	37	44	39	35	30	35	37	46	33	36	38	44	45	48	48	44	37	38	46	63	51	54	48	39	38	38	33	41	44	43	52	42.0	2400																														
GEORGETOWN, DE NWS SUSSEX CO APT	40	47	43	32	39	38	41	49	37	37	49	46	58	58	48	47	37	41	60	65	52	55	50	40	53	42	36	43	47	49	63	46.5	2400																														
GEORGETOWN, DE U OF D RES & ED CTR	40	46	41	31	36	36	39	50	35	37	48	45	57	58	48	46	36	43	61	65	52	55	50	39	52	42	35	43	46	49	62	45.9	2400																														
HARBESON, DE UoID WARRINGTON FARM	39	47	40	32	39	36	41	49	36	38	48	45	58	58	47	46	35	39	58	64	51	54	49	39	54	42	36	43	46	48	63	45.9	2400																														
ST MARGARETS BRYANT	37	48	39	35	33	36	38	45	34	35	35	46	41	47	47	47	35	37	48	55	50	57	49	42	38	41	39	44	47	44	50	42.5	1700																														
MILLERSVILLE 1SE HANSON	36	49	39	32	30	33	40	47	33	35	35	44	41	44	51	46	38	36	49	57	54	55	52	43	38	40	35	44	44	43	59	42.6	2400																														
LOTHIAN JUG BAY	57	43	51	32	34	32	31	>	>	53	34	36	45	41	45	>	52	41	M	61	61	55	55	55	40	39	30	>	47	33	35	43.8	2400																														
BALTIMORE NWS BWI APT	37	47	41	32	30	33	39	46	33	36	35	43	43	45	49	46	38	36	50	58	53	56	50	43	38	40	35	44	45	44	57	42.6	0900																														
LAUREL 2 E STOUDT	***PRECIPITATION ONLY STATION***																																																														
PARKTON 5SW KREINIK	36	41	35	30	29	36	40	45	33	35	34	40	38	40	46	41	37	35	46	56	51	55	48	35	34	38	36	40	44	43	53	40.3	2200																														
OWINGS MILLS 2SE SHARROW	34	42	36	29	28	31	34	42	33	35	33	40	39	41	44	43	33	35	45	56	48	51	46	38	34	35	32	37	40	40	45	38.7	2400																														
BALTIMORE 2SE MANFRE	38	48	45	32	32	34	42	46	33	37	37	45	40	47	51	47	38	37	49	58	53	57	51	43	38	40	36	43	45	44	57	43.3	1800																														
BALT INNER HARBOR MD SCIENCE CENTER	37	47	44	33	31	34	40	48	34	37	37	45	44	45	51	47	38	35	47	58	53	57	50	43	39	40	36	43	45	44	53	43.1	2400																														
MANCHESTER 1SW CLOSE	33	41	37	29	27	35	36	42	29	35	33	37	40	40	46	43	36	35	46	57	50	52	47	36	32	36	36	41	43	40	50	39.4	2100																														
WESTMINSTER 4 SSE HARTSOCK	36	42	36	30	30	32	34	45	26	37	32	40	37	40	45	43	32	38	48	57	49	52	45	37	33	37	33	38	43	43	48	39.3	2200																														
WESTMINSTER 5 SSE KLEIN	30	40	35	28	28	30	32	43	28	34	33	38	36	38	43	41	31	35	44	55	46	50	42	36	32	34	32	36	37	39	45	37.1	2200																														
MILLERS 4NE MILLER	42	41	37	28	27	33	39	43	39	35	33	39	37	40	45	42	35	36	46	57	49	52	48	41	34	38	32	38	42	41	52	40.0	1800																														
EAGLE ROCK HARVEY	42	26	40	22	22	24	20	36	32	32	48	32	32	32	30	36	28	36	38	52	46	40	38	36	30	30	24	28	34	38	50	34.0	0800																														
FALLSTON 2 NW ALBRIGHT	36	45	36	32	31	37	37	48	33	38	35	44	42	42	48	43	36	40	48	57	52	56	48	39	35	39	36	41	45	44	49	41.7	2400																														

ACON MD / DE / DC
DECEMBER 2002 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	34	46	41	30	28	35	45	49	34	37	34	45	41	44	50	45	40	38	49	59	53	56	50	43	37	40	37	44	45	46	55	42.9	2400
GIANNOLA	26	26	19	16	22	19	9	26	17	16	28	32	35	36	29	22	23	31	38	36	37	38	29	30	27	22	20	29	25	33	26.7	EST	
POTOMAC 4N	36	46	40	30	28	33	39	44	38	36	34	42	38	43	49	46	36	37	48	58	54	56	52	42	34	38	34	42	45	45	55	41.9	2100
COHEN	24	23	18	14	24	18	8	18	20	19	24	32	34	36	36	32	24	26	34	41	34	31	31	31	31	30	23	20	25	26	34	26.5	EST
OLNEY 1 S	35	46	39	32	28	32	38	>	>	>	>	43	41	42	49	43	37	36	48	58	52	55	50	41	36	>	>	>	>	43	54	42.5	2400
GIANNOLA	23	23	15	12	23	16	11	>	>	>	>	17	32	35	35	28	21	22	32	33	32	34	34	30	30	>	>	>	>	20	33	25.7	EST
GLENMONT 1NNE	39	47	41	31	29	35	44	45	34	36	34	44	42	44	51	45	39	39	50	60	55	58	52	41	37	40	37	43	45	45	59	43.3	2400
ROSSEN	23	22	16	14	25	12	5	16	16	16	27	32	33	37	35	29	24	23	33	34	29	29	30	31	32	27	22	20	25	24	32	24.9	EST
BETHESDA	36	48	41	32	30	35	42	46	35	39	35	44	43	44	50	46	38	38	50	60	55	56	53	42	38	40	37	43	47	47	57	43.4	2400
SCAFIDE	25	25	18	15	23	19	12	21	19	19	26	30	34	34	34	29	23	24	33	35	31	35	31	29	30	28	22	21	25	27	34	26.1	EST
GAITHERSBURG 2WNW	36	44	40	31	28	34	40	44	32	36	32	43	38	42	48	44	37	38	50	56	52	54	50	41	36	39	35	41	45	44	52	41.4	2400
SHAW	20	21	18	10	22	12	3	14	14	15	22	30	30	34	32	26	18	21	32	34	28	31	30	29	30	27	21	17	24	21	31	23.1	EST
FOREST GLEN	38	48	40	34	30	38	44	47	35	38	34	48	42	45	52	46	40	40	50	60	56	58	53	42	38	42	37	45	49	47	58	44.3	2400
TERRY	25	26	18	14	25	18	12	23	21	21	29	32	35	35	36	30	24	26	35	35	32	35	32	31	32	28	24	22	27	28	36	27.3	EST
ROCKVILLE 1NE	38	47	42	31	30	38	42	44	31	35	34	42	42	43	49	44	39	38	50	61	54	55	52	43	38	38	34	41	44	45	56	42.6	2400
WASH GAS LIGHT	25	27	17	14	23	18	8	20	17	17	30	33	35	35	36	30	23	25	34	36	34	39	34	29	31	28	28	24	27	25	35	27.0	EST
SOUTH BOWIE	37	47	39	32	30	34	38	47	32	35	33	44	41	44	49	44	37	37	51	59	50	55	48	39	36	40	36	42	46	45	56	42.0	2400
HUDELSON	24	23	20	15	26	16	8	21	19	19	31	32	36	38	36	25	24	24	24	33	32	36	32	32	31	29	24	20	26	25	32	26.2	EST
OXON HILL	37	50	46	32	31	35	41	49	38	37	36	47	42	46	53	47	39	41	49	62	56	57	>	>	>	>	>	54	48	50	63	45.6	2300
SMITH	27	25	24	19	25	19	13	23	24	21	30	33	36	37	37	34	26	27	32	37	34	37	>	>	>	>	>	23	27	27	34	28.1	EST
HOLLYWOOD	40	51	43	31	32	35	39	53	38	35	36	48	42	47	52	48	38	40	57	64	55	59	53	42	39	43	40	43	50	50	65	45.4	2359
ABELL	24	26	22	15	26	19	14	30	21	21	32	32	33	39	37	30	28	23	31	43	35	39	37	33	35	26	22	21	28	26	36	28.5	EST
ORAVILLE	38	51	43	35	32	36	36	48	38	37	35	46	42	47	52	48	38	40	57	62	55	59	51	42	40	40	39	44	48	51	62	44.9	2400
VAN WIE	20	20	16	11	26	15	10	23	18	18	31	30	33	37	35	29	25	21	31	43	35	41	32	33	34	26	21	18	26	25	34	26.4	EST
RIDGE	42	51	32	33	34	37	42	46	38	36	38	48	43	45	52	49	35	39	54	62	53	61	51	43	38	45	40	48	49	48	66	45.1	2400
ZYLA	28	27	20	18	25	21	20	32	23	27	32	33	34	38	35	32	27	29	33	38	38	41	40	33	35	29	25	24	33	33	39	30.4	EST
HAGERSTOWN 1E	33	45	40	28	27	34	36	44	30	33	33	42	39	42	46	47	36	38	51	53	50	54	48	38	36	38	34	39	43	42	54	40.4	2400
KEEPER	24	24	18	11	23	13	1	13	12	14	22	32	33	34	36	27	21	24	31	33	35	34	37	27	30	23	16	16	26	22	32	24.0	EST
SMITHSBURG 2 NE	32	42	36	33	29	33	35	32	31	36	32	43	38	40	43	45	37	37	51	56	49	52	46	35	35	37	35	39	43	42	55	39.6	2000
VAUGHN	23	27	16	10	21	18	9	19	10	17	20	32	32	33	33	25	19	24	33	36	36	37	34	27	29	24	18	21	25	24	33	24.7	EST
SALISBURY	39	47	40	32	39	37	41	51	36	38	53	45	58	59	48	48	37	42	61	65	52	55	50	42	53	43	38	44	46	49	62	46.8	2400
NWS WICOMICO CO APT	20	20	18	16	26	16	12	23	23	23	37	33	28	42	37	27	20	18	24	37	34	30	24	26	37	26	22	20	23	21	36	25.8	EST
HANOVER 2 S, PA	32	41	32	28	25	30	34	42	29	30	32	36	34	38	44	39	30	35	45	55	47	48	45	36	32	35	32	35	39	41	48	37.1	2100
RICKELL	24	24	14	9	21	5	2	15	8	10	13	31	26	32	32	26	17	14	26	31	35	36	29	26	27	19	16	15	20	20	30	21.1	EST
WASH NATIONAL	37	49	42	32	30	34	38	46	35	36	36	48	42	46	51	48	39	39	50	61	55	57	54	43	39	43	38	45	49	48	61	44.2	2400
NWS ASOS	27	27	23	19	26	25	18	26	25	25	32	35	37	38	38	32	27	30	36	37	36	38	36	31	33	31	27	27	29	30	36	30.2	EST
WASH DULLES	36	49	41	30	28	33	37	45	32	33	34	45	38	45	50	46	37	39	50	54	54	57	52	41	38	40	35	43	48	47	58	42.4	2400
NWS ASOS	21	21	18	12	24	9	1	13	14	14	25	32	33	35	37	27	25	27	35	32	31	33	29	30	31	27	21	20	24	31	24.4	EST	

ACON MD / DE / DC
DECEMBER 2002 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			T T		8.0						1.70		0.80			0.03				0.90				T 1.0	1.10 1.0				T		T	4.53 10.0	2400 EST
BEAR 2 SW, DE GALLAHER					0.83 6.9						1.51 T		0.64	0.02		0.01			T	1.01				0.14 1.4	1.40 0.6		T	T	T		5.56 8.9	2400 EST	
WILMINGTON , DE NWS NEW CASTLE CO APT					0.68 6.8	0.01 T					1.38 T	0.01	0.59	0.02		T			T	0.73				0.10 0.9	0.99 1.3	T T		T		T	4.51 9.0	2400 EST	
U of D DE Climatologist Newark Pearson Hall					0.55						1.04	0.02	0.44	0.02		0.01				0.64					1.33	0.07					4.12	2400 EST	
GEORGETOWN, DE NWS SUSSEX CO APT					1.15					T	1.03		0.47	0.01		T			T	0.66				0.28	0.34					T	3.94	2400 EST	
GEORGETOWN, DE U OF D RES & ED CTR					0.58						0.81		0.45	0.01						0.52				0.24	0.31						2.92 0.0	2400 EST	
HARBESON, DE UofD WARRINGTON FARM					0.71						1.01		0.45	0.01					0.01	0.41				0.29	0.33						3.22 0.0	2400 EST	
ST MARGARETS BRYANT				0.32 3.5	0.56 2.4					0.04 0.1	1.52		0.67						0.12	0.84				0.62 1.8	1.02 0.3					0.31	6.02 8.1	0700 EST	
MILLERSVILLE 1SE HANSON					0.74 7.0						1.45		0.69	0.03			0.01			0.88				0.21 1.7	1.20 0.7						5.21 9.4	2400 EST	
LOTHIAN JUG BAY	0.07				0.83 6.0	0.04					0.49	0.35		0.64	0.15					0.25	1.29				1.48	0.01		T			5.60 6.0	2400 EST	
BWI NWS ASOS					0.96 7.4	T T					1.61		0.58	0.01	T	T			0.05	0.43		T		0.20 1.3	1.12 1.0		T			T	4.96 9.7	0900 EST	
LAUREL 2 E STOUDT					0.93 6.5						1.83		0.73	0.03					0.05	0.32				0.22 1.6	1.23 0.9		T			T	5.34 9.0	2400 EST	
PARKTON 5SW KREINIK					0.73 7.4	T T					1.93	T	0.10 T	0.53 T					T	0.51		T		0.10 1.0	1.38 5.5	T T		0.01 0.2			5.29 14.1	2200 EST	
OWINGS MILLS 2SE SHARROW	T T				0.74 8.2	T T					1.60		0.59	0.07		T			0.01	0.34		T		0.14 1.5	1.21 6.0		T T				4.70 15.7	2400 EST	
BALTIMORE 2SE MANFRE					0.75 7.0						1.82 T		0.65	0.02					0.06	0.48				0.02 T	1.63 2.0	0.02						5.45 9.0	1800 EST
BALT INNER HARBOR MD SCIENCE CENTER					0.80						1.75		0.58	0.04					0.06	0.40				0.04	1.64						-	5.31 -	2400 EST
MANCHESTER 1SW CLOSE					0.64 7.5						1.89		0.52	0.06		T			T	0.33				0.16 1.3	1.02 5.7	T T	0.01 0.1		T	T	4.63 14.6	2100 EST	
WESTMINSTER 4 SSE HARTSOCK					0.67 7.0						1.76		0.50 T	0.12						0.41				0.07 1.0	1.09 5.0		T T		T		4.62 13.0	2200 EST	
WESTMINSTER 5 SSE KLEIN					0.80 8.0						2.08 0.4		0.52	0.08						0.40				0.15 1.5	1.27 5.0						5.30 14.9	2200 EST	
MILLERS 4NE MILLER	0.01 0.3				0.81 8.2	0.01 0.2					1.95	0.05	0.40 T	0.23						0.56		T		0.02 0.4	1.34 6.7	T 0.1		0.02 0.3		T	5.40 16.2	1800 EST	
EAGLE ROCK HARVEY	0.20 4.0	T T			0.78 6.0	0.39 3.0					0.03	0.32 T	0.02 T	0.40 1.0	0.25 3.0	0.04 0.5	0.02	T		0.28	T	0.01 0.2	0.27		0.52 2.0	0.40 4.0	0.01 0.2			0.03	3.97 23.9	800 EST	
FALLSTON 2 NW ALBRIGHT					0.98 8.0						1.92		0.70	0.07						0.50				0.14 1.3	1.80 2.8		T		T		6.11 12.0	2400 EST	

ACON MD / DE / DC
DECEMBER 2002 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 GIANNOLA					0.85 6.5						1.49	0.03	0.89	0.05						0.01	0.31				0.18	1.05							4.86 9.5	2400 EST
POTOMAC 4N COHEN					0.80 6.0	T T					1.95		0.61	0.13						T	0.26	T			0.22	1.16							5.13 8.7	2100 EST
OLNEY 1 S GIANNOLA					0.92 7.0						1.60		0.56	0.04						0.01	0.17		T			>	1.23						4.53 9.8	2400 EST
GLENMONT 1NNE ROSSEN				T T	1.05 6.9						1.68		0.63	0.03		T				0.01	0.25				0.28	1.08					T	T	5.01 9.7	2400 EST
BETHESDA SCAFIDE					1.01						0.69	0.30	0.74	0.07						0.01	0.27					0.88	0.13	0.04	0.12	0.11	0.01		4.38	2400 EST
GAITHERSBURG 2WNW SHAW					0.97 7.4						1.60		0.60	0.02							0.33				0.22	0.92					T	T	4.66 10.4	2400 EST
FOREST GLEN TERRY					0.90 6.0						1.69		0.69	0.05						0.01	0.22		T		0.28	1.06					T		4.90 8.6	2400 EST
ROCKVILLE 1NE WASH GAS LIGHT	T T				0.80 6.7						1.60		0.52	0.04						0.01	0.22		T		0.26	1.05							4.50 10.3	2400 EST
SOUTH BOWIE HUDELSON					0.85 5.5						1.57		0.61	0.03						0.04	0.54		T		0.10	1.29							5.03 6.5	2400 EST
OXON HILL SMITH					0.83 5.0						1.48		0.58	0.07		T				0.03	0.58		T	>	>	>	>	>	1.29				4.86 7.0	2300 EST
HOLLYWOOD ABELL				0.01 0.1	1.09 3.0						1.15		0.49	0.03		T				0.02	0.36				0.41	0.61							4.17 3.1	2359 EST
ORAVILLE VAN WIE					0.90 4.1						1.20		0.52	0.03		T				0.02	0.36				0.36	0.81							4.20 4.1	2400 EST
RIDGE ZYLA				0.04 0.4	1.20 4.0						0.69		0.36	0.01		0.01				0.02	0.37		T		0.42	0.43	0.02					0.09	3.66 4.4	2400 EST
HAGERSTOWN 1E KEEFER					0.86 8.2	T T					1.42 0.3		0.57 T	0.05 T							0.39				0.17	0.44					T		3.90 13.8	2400 EST
SMITHSBURG 2 NE VAUGHN				T T	0.67 7.2	0.01 0.1					1.40 0.4		0.62 0.5	0.05							0.63				0.10	0.63	T			T			4.11 14.8	2000 EST
SALISBURY NWS WICOMICO CO APT					0.88 4.0	T				T	1.05		0.35	0.01		T				T	0.47		T		0.32	0.30						0.05	3.43 4.0	2400 EST
HANOVER 2 S, PA RICKELL	0.01 0.2				0.88 9.5	T T					2.05 T	T	0.40	0.14						0.80					0.09	1.02	T		T	T		T	5.39 15.7	2100 EST
WASH NATIONAL NWS ASOS				T T	0.59 6.1						1.36		0.53	0.05		T				0.03	0.97				0.20	0.72							4.45 7.1	2400 EST
WASH DULLES NWS ASOS					0.57 6.2	T T					1.09		0.61	0.04		T				T	0.43		T		0.18	0.69							3.61 8.2	2400 EST