DECEMBER 1999: Above normal temperatures and subnormal precipitation highlighted the final month of 1999. Monthly temperatures between +2°F and +3°F were reported at the three major airports. There were 23 days with at or above normal temperatures at DCA, including 18 such days during the first 3 weeks. The peak of the warmth occurred on the 4° and 5° as highs soared near 70°F at many locations. In sharp contrast, a blast of frigid Arctic air briefly gripped the region during the last week. Highs on the 24° and 25° remained below freezing at most locations (32°F at DCA on both days), the lowest maximum readings since February.

Slightly below normal precipitation was observed across most of the Washington/Baltimore area. Most of the monthly precipitation totals fell during the first half of the month. Showers on the 6° and again on the 10° each generated about 0.50° across most of the area. The most significant precipitation event occurred on the 13° and 14° when up to 1.50° of rain fell across the local area. The first wintry weather of the season occurred on the 22° As sleet and/or very light snow fell on some locations. IAD recorded 0.2° of snow while both DCA and BWI observed a trace. On the 28°, a dusting of snow fell on many locations with only trace amounts reported at the three major airports. It was the 16° year of the last 17 with subnormal December snowfall at DCA.

DECEMBER 1999 WEATHER STATISTICS FOR THE WASHINGTON/BALTIMORE AREA:

Station	Temperatures (°F)				Extrem		Precipitation (In)			
Location	AvMx A	<u>lvMn AvgT</u>	Nm11 39.4	<u>DepNml</u>	<u>MaxT</u> 68/4*	<u>MinT</u> 21/25	<u>Total</u> 2.49	Norm	<u>DepNmi</u>	<u>Sṇow</u>
National (DCA)		34.5 42.0	39.4	+2.6	68/4"	21/25	2.49	3.12	-0.63	Ļ
Baltimore (BWI) Dulles (IAD)	48.5 2 48.2 2	29.7 39.1 28.2 38.2	36.7 35.4	+2.4 +2.8	68/4* 67/5	14/25 12/25	2.96 2.67	3.41 3.22	-0.45 -0.55	0.2
Ft. Belvoir (DAA)	52.5	32.6 42.5	35.4 N/A	+2.0 N/A	73/4	20/25	2.07	3.3	-0.55 -1.2	0.2 T
Andrews AFB (ADW)		32.6 40.7	N/A	N/A	68/4*	20/25	1.96	3.4	-1.4	Ť

Other Occurrences: * December 5th.

Other Occurrences: *December 5th.

ANNIJAL 1999.* Slightly warmer and wetter than normal conditions were observed across the Washington/Baltimore area with annual temperature departures a round 4:17 and annual precipitation surphuses between 1 and 3.5 inches at the three major airports. Despite these surphases, the local region experienced one of the worst and annual precipitation surphuses between 1 and 3.5 inches at the three major airports. Despite these surphases, the local region experienced one of the worst and annual precipitation surphuses between 1 and 3.5 inches at the three major airports. Despite these surphases, the local region expertenced one of the worst and annual precipitation fell at 10 EA/17 (1974). The main 15 (1974) and 15 (19

THE TACTION OF THE TACTOR OF T											
Station	Temperatures (°F)				Extreme/M	Precipitation (In)					
Location	<u>AvMx</u>	<u>AvMn</u>	<u>AvqT</u>	<u>NmIT</u>	<u>DepNml</u>	<u>MaxT</u>	<u>MinT</u> * 16/1-6	<u>Total</u>	<u>Norm</u>	<u>DepNml</u>	<u>Snow</u>
National (DCA)	67.8	50.0	58.9	58.0	+0.9	1 03/7- 6		40.23	<u>38.63</u>	+1.50	11.1
Baltimore (BWI)	66.2	45.5	55.8	55.1	+0.7	102/7-5	7/1-6	43.93	40.76	+3.17	12.1
Dulles (IAD)	66.7	43.8	55.2	53.8	+1.4	99/7-5	4/1-6	43.61	40.24	+3.37	19.8
Ft. Belvoir (DAA)	70.4	48.0	59.2	N/A	N/A	104/7-5*	11/1-6	43.61	41.7	+1.9	10.0
Andrews AFB (ADW)	66.7	46.5	56.6	N/A	N/A	100/7-5*	9/1-6	42.86	42.5	+0.4	16.8

Other Occurrences: * July 12th.

LOOKING AHEAD TO DECEMBER: A warmer than normal January?

Since 1990, when December has been colder than normal the following January has also been colder than normal; and when December temperatures have been abovenormal the following January has also been above-normal at DCA. With this in mind, will January 2000 be warmer than normal since abnormal warmth was observed in December, or will this coincidental pattern come to an end? [January Normal Average Temperature at DCA: 34.6°F]

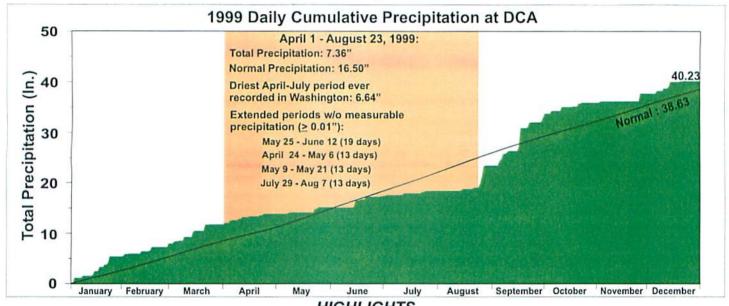






PRECIPITATION SUMMARY AND TEMPERATURE OBSERVATIONS FOR THE WASHINGTON, DC & BALTIMORE, MD AREA

DECEMBER 1999 & ANNUAL REVIEW A WETTER THAN NORMAL YEAR DESPITE SEVERE SPRING & SUMMER DROUGHT



HIGHLIGHTS

MONTHLY

- Above normal temperatures and subnormal precipitation across the Washington/Baltimore area; Monthly temperature departures between +2°F and +3°F at the three major airports;

- 23 days (74%) with at or <u>above</u> normal temperatures at DCA; 23 days (24th and 25th) with highs of 32°F and 11 days with lows of 32°F or lower at DCA; Monthly precipitation deficits of about one-half inch at DCA, BWI and IAD; 10th consecutive December with subnormal snowfall at DCA.

ANNUAL

- Slightly warmer and wetter than normal conditions observed across the Washington/Baltimore area;
- Annual precipitation surpluses of 1.50" at DCA, 3.06" at BWI and +3.35" at IAD; 8 out of 12 months with subnormal precipitation at DCA, BWI and IAD;
- Extreme drought conditions plagued the local region during the summer, resulting in significant crop losses and mandatory water

- restrictions for most local jurisdictions;
 Driest April-July period (Total Prec.: 6.64"; Normal Prec.: 13.55") ever recorded in Washington;
 Third driest July ever observed in Washington (Total Prec.: 1.01");
 Major ice storm on January 14th-15th across the northern and western portions of the local area downed numerous trees and power lines, knocking out power to nearly half a million customers;
 Snowiest March (8.7") since 1960 at DCA (third overall at the airport);
 Astern on March 2th dumps peadly a foot of snow on northern Virginia and generates the largest daily March snowfall, total (8.4" on

- Snowlest March (8.7") since 1960 at DCA (third overall at the airport);
 Astorm on March 9th dumps nearly a foot of snow on northern Virginia and generates the largest daily March snowfall total (8.4" on the 9th) ever observed at DCA:
 Wettest September ever recorded at BWI, second at DCA (4th overall in Washington), and third at IAD;
 Wettest month (September 1999) since September 1975 at DCA (15th wettest overall in Washington), August 1955 at BWI (2nd overall) and May 1988at IAD (6th overall);
 Wettest September day (5.02" on the 15th) & second wettest day ever recorded at BWI (records began in August 1951) and the wettest calendar day since September 5, 1979 at DCA;
 Remnants of Tropical Storm Dennis produced 1 to 5 inches of rain across the area Sept. 4th-6th and more than 9 inches in Augusta
- Remnants of Tropical Storm Dennis produced 1 to 5 inches of rain across the area Sept. 4th-6th and more than 9 inches in Augusta
- Strong thunderstorms on September 9th dumped over 3 inches of rain on portions of Montgomery County, MD;
- Heavy rain (nearly 1 foot around Annapolis, MD), tropical storm force winds (39-74 mph), localized flooding and widespread power outages (some lasting a week) on Sept. 16th as Hurricane Floyd passed to the east of the Washington/Baltimore area; Annual temperature departures between +0.5°F and +1.5°F at the three major airports;

- 48 days with 90°F+ highs and 57 days with lows <u>at or below</u> 32°F at DCA; Second hottest month (July 1999; Avg. Temp.: 82.9°F) ever recorded in Washington; 18 consecutive days with 90°F+ highs (July 22nd August 18) at DCA.