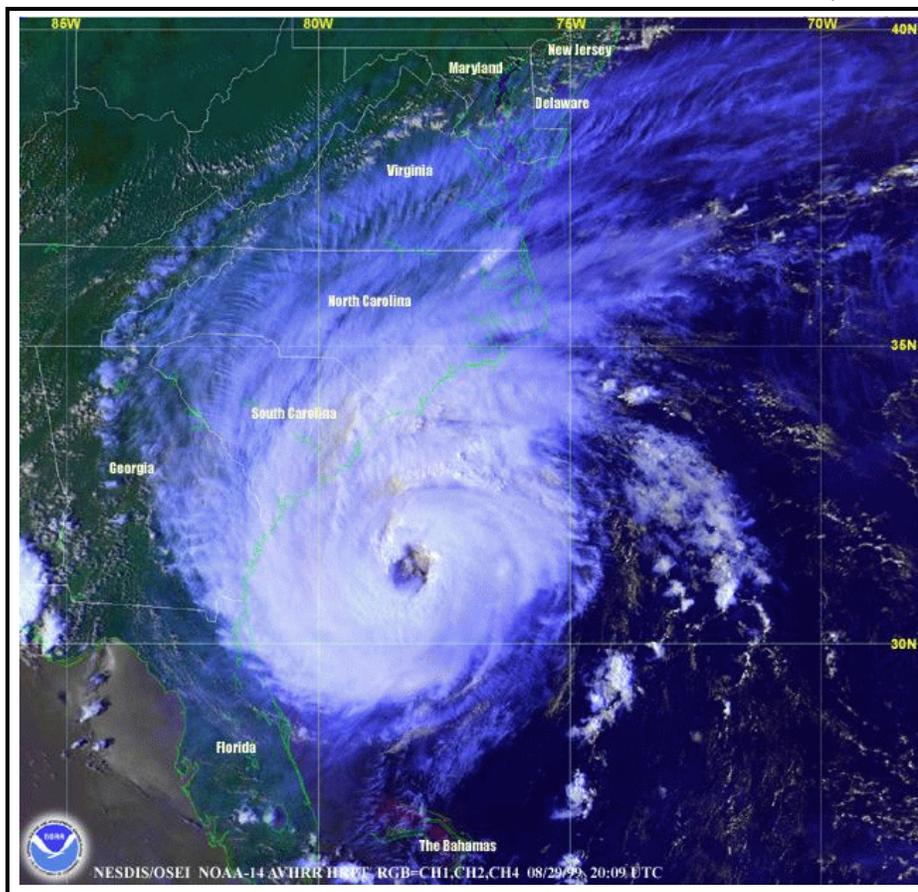


# WEEKLY WEATHER AND CROP BULLETIN



U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE  
National Agricultural Statistics Service  
and World Agricultural Outlook Board



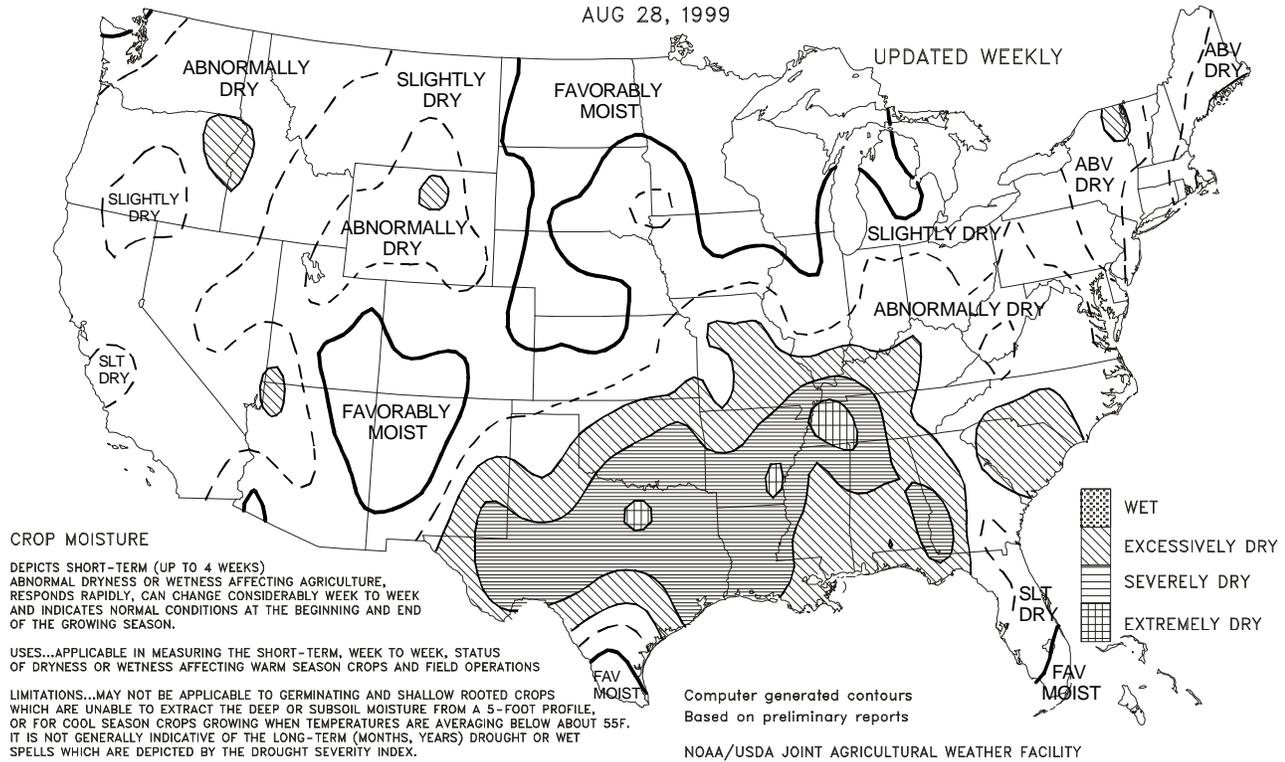
Dennis, a Category 2 hurricane, brushed the Carolinas on August 29-30, producing heavy rain, gusty winds, and beach erosion. During the morning of August 30, the center of Dennis passed about 80 miles southeast of Cape Fear, near Wilmington, NC, and a similar distance from Cape Lookout, near Morehead City, NC. Maximum sustained winds during the morning ranged from 100 to 105 mph, and the minimum central pressure was 28.41 inches (962 millibars). Offshore at Frying Pan Shoals, winds near dawn on August 30 were clocked to 92 mph, with gusts to 112 mph. On the mainland, hurricane-force wind gusts and rainfalls in excess of 4 inches were confined to a few areas near the immediate North Carolina coast.

## HIGHLIGHTS August 22 - 28, 1999

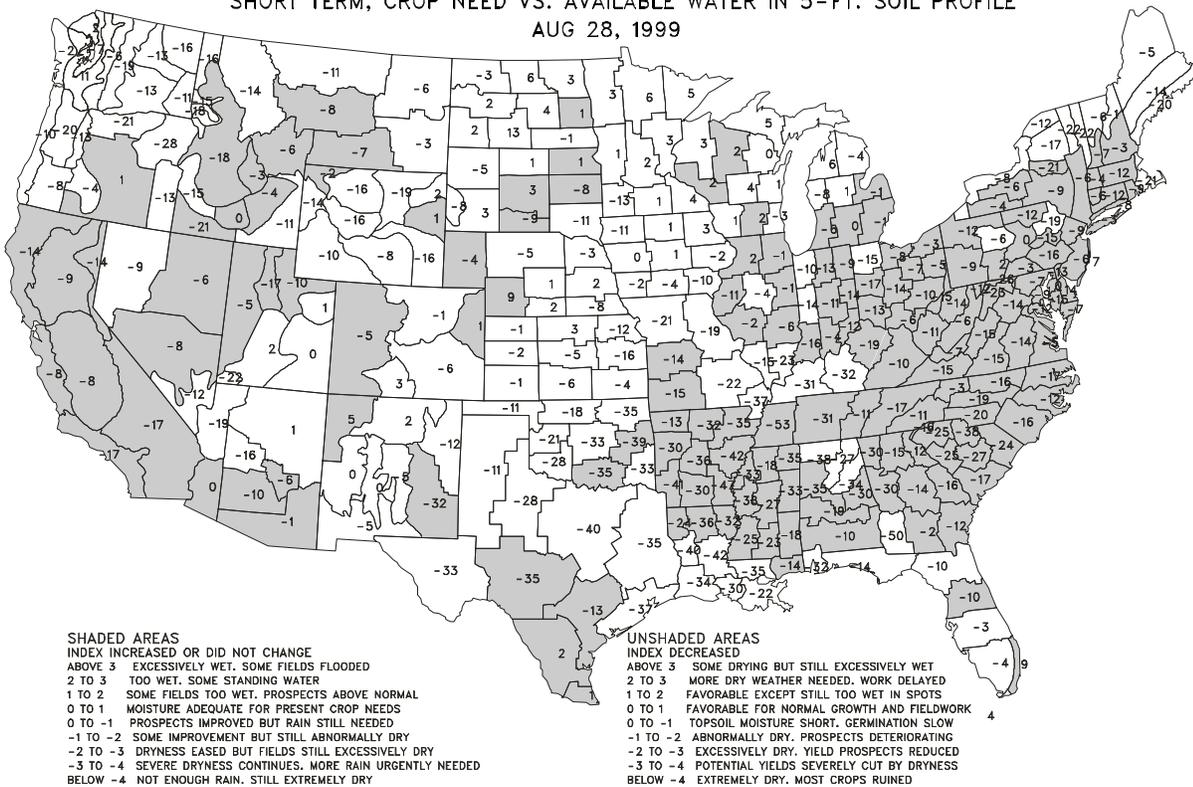
For the third consecutive week, beneficial showers dampened portions of the **East**, boosting topsoil moisture and denting long-term drought. More than 2 inches of rain fell in many areas from **northern Georgia** to the **northern Mid-Atlantic region**, and in the **middle Ohio Valley**. Meanwhile, scattered showers and near-normal temperatures aided immature crops in the **Corn Belt** and **Southeast**. From **eastern Texas** to the **Delta**, however, a fifth consecutive week of heat (up to 7°F above normal) and seventh consecutive week of dryness further stressed livestock, pastures, and immature summer crops. Unfavorably dry conditions also persisted in the **lower Ohio Valley**. Warm (generally 4 to 7°F above normal),  
*(Continued on page 5)*

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**Crop Moisture**  
 SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE  
 AUG 28, 1999



**Crop Moisture Index**  
 SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE  
 AUG 28, 1999



## Weather Data for Selected Locations in the Delta

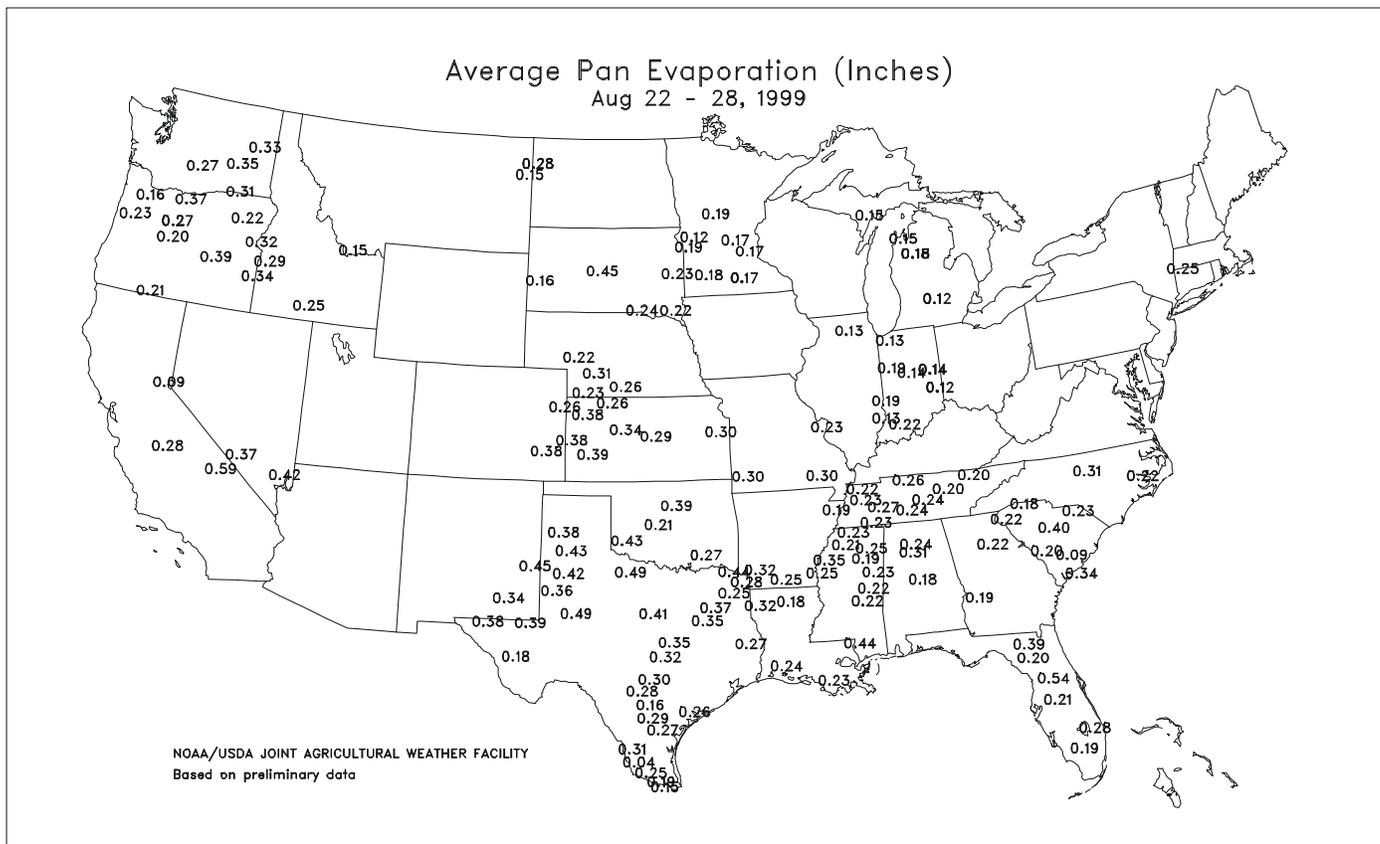
### Weather Data for the Week Ending August 28, 1999

Data provided by the Mississippi State Delta Research and Extension Center and compiled by USDA/OCE/WAOB's Stoneville Field Office

STATES AND STATIONS	TEMPERATURE °F							PRECIPITATION							4-INCH SOIL TEMP, °F		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP	
																		101 INCH OR MORE	50 INCH OR MORE		
MS BATESVILLE	90	66	95	60	78	0	1.74	1.18	1.74	--	--	--	--	--	--	5	0	1	1		
BELZONI	96	67	101	62	82	1	0.00	-0.54	0.00	--	--	--	--	--	--	7	0	0	0		
CLARKSDALE	92	71	95	67	82	2	0.62	-0.02	0.62	--	--	--	--	--	--	6	0	1	1		
CLEVELAND	93	67	96	64	80	1	0.41	0.25	0.21	--	--	--	--	--	--	6	0	2	0		
GREENVILLE	94	71	96	68	83	2	0.00	-0.40	0.00	--	--	--	--	--	--	7	0	0	0		
GREENWOOD	92	67	97	61	80	-1	2.27	1.75	2.18	--	--	--	--	--	--	5	0	2	1		
INDIANOLA 1S	94	70	98	66	82	--	0.42	--	0.42	5.39	--	32.76	--	88	81	7	0	1	0		
INVERNESS 5E	94	70	98	67	82	--	0.48	--	0.48	5.88	--	31.00	--	87	75	6	0	1	0		
LYON	93	67	97	63	80	--	0.32	--	0.32	7.03	--	--	--	--	--	6	0	1	0		
MOORHEAD	95	72	99	69	84	3	0.62	0.23	0.62	--	--	--	--	--	--	7	0	1	1		
ONWARD	95	69	98	65	82	--	0.37	--	0.21	12.50	--	40.66	--	82	79	6	0	2	0		
ROLLING FORK	95	69	99	65	82	2	0.39	-0.13	0.23	--	--	--	--	--	--	7	0	1	0		
SIDON	95	67	101	66	81	--	0.37	--	0.37	--	--	--	--	93	84	6	0	1	0		
TUNICA	90	69	95	67	80	1	0.82	0.33	0.80	--	--	--	--	--	--	4	0	2	1		
VICKSBURG	93	71	98	66	82	1	1.79	1.22	1.57	--	--	--	--	--	--	6	0	2	1		
YAZOO CITY	92	68	96	65	80	-1	0.00	-0.69	0.00	--	--	--	--	--	--	5	0	0	0		
STONEVILLE *	95	70	98	65	83	4	0.16	-0.39	0.16	4.17	44	35.27	102	95	82	7	0	1	0		

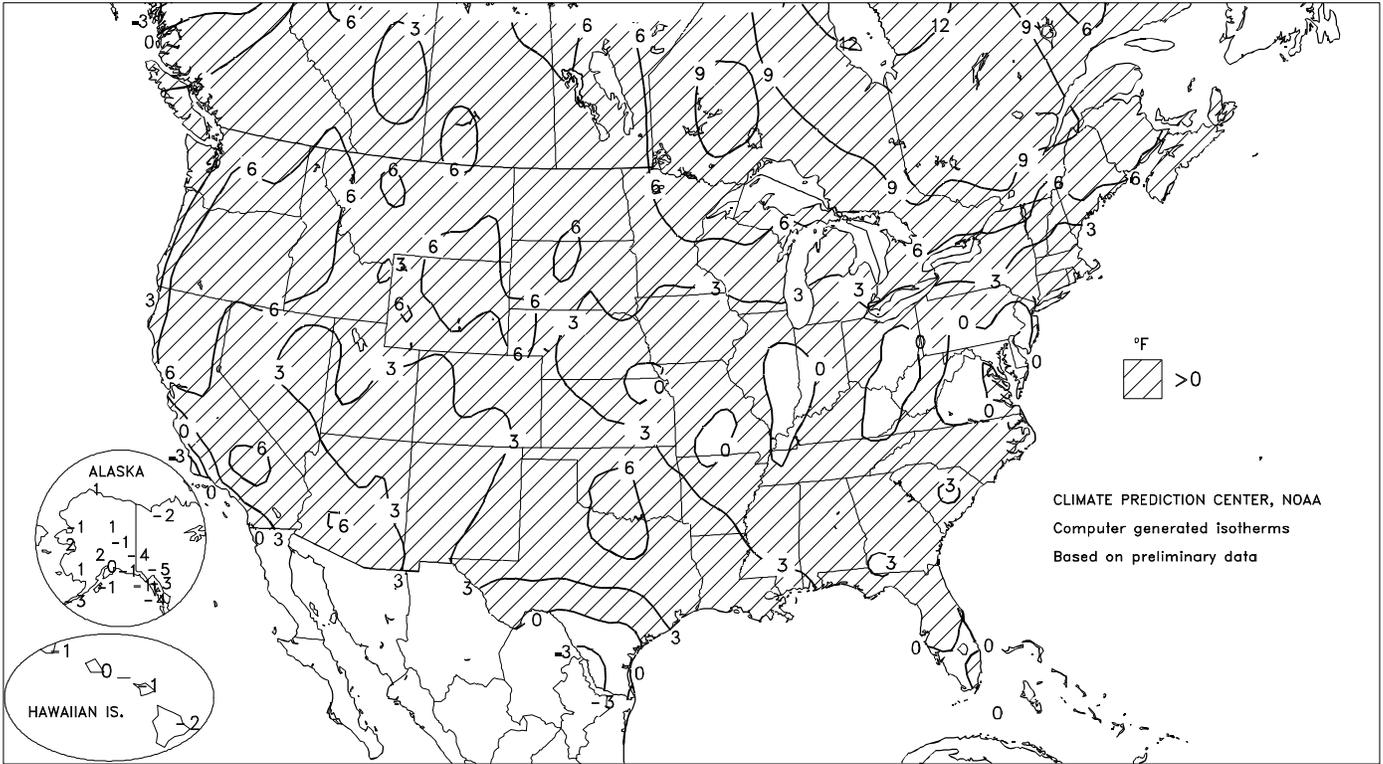
\* Based on 1964-93 normals.

**Delta Weather and Crop Summary:** Near- to above-normal temperatures aided cotton development. Beneficial showers fell across most of the Delta, bringing minor relief to drought-stressed crops. Topsoils remained unfavorably dry, however, in most areas.



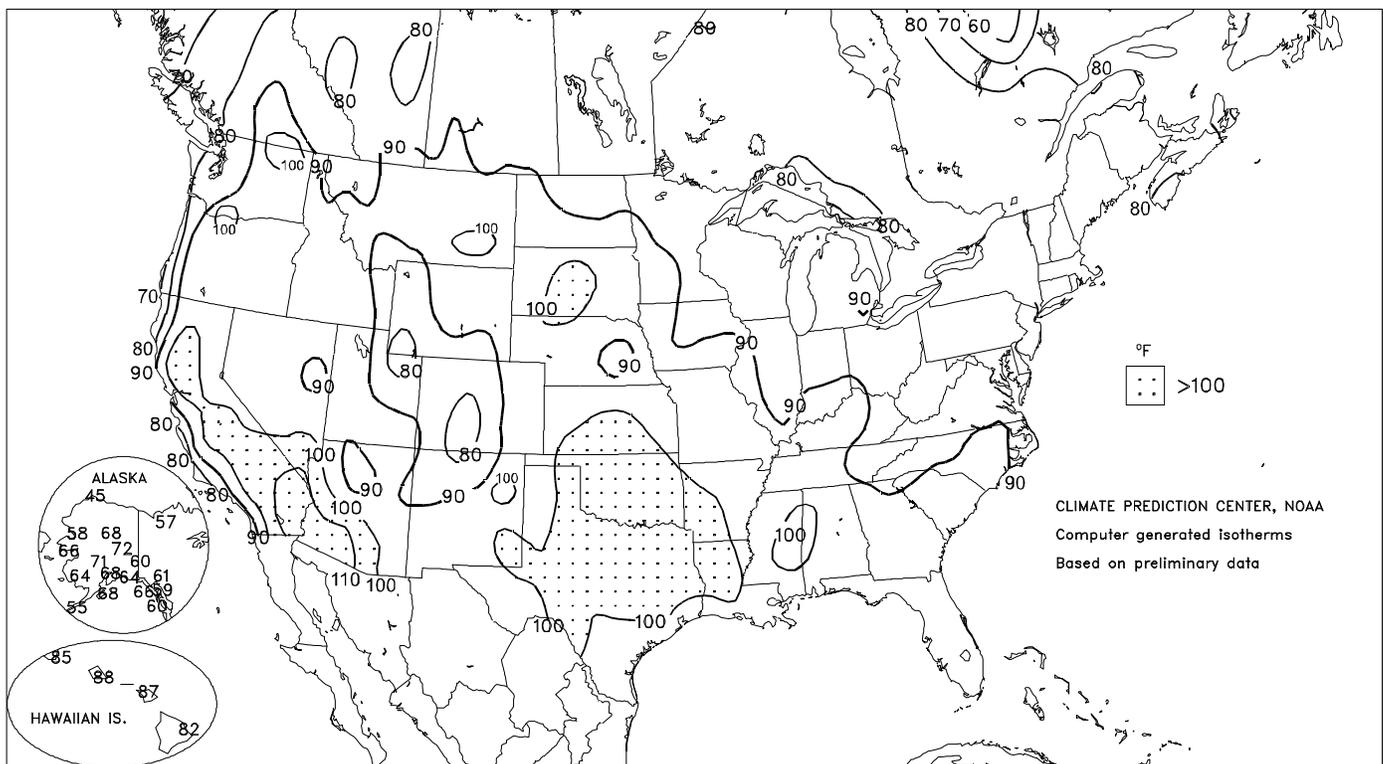
Departure of Average Temperature from Normal (°F)

AUG 22 - 28, 1999



Extreme Maximum Temperature (°F)

AUG 22 - 28, 1999



(Continued from front cover)

mostly dry weather promoted harvesting of small grains in the **northern Plains** and **Northwest**, preparations for winter wheat planting on the **southern Plains**, and development of cotton and other summer crops in **California**. Seasonal showers--including moisture from the remnants of Hurricane Bret--continued in the **Southwest**. Bret made landfall on August 22 in sparsely populated **Kenedy County, TX**, with maximum sustained winds near 125 mph. The storm tracked generally westward across **southernmost Texas** before crossing the **Rio Grande** and dissipating in **northern Mexico**. Agricultural implications were minimal since **southern Texas'** summer crop season was ending, and fall planting preparations were just underway. In fact, the long-term effects of Bret's passage will be largely beneficial as the region's reservoir supplies improve. At week's end, Hurricane Dennis neared the **southern Atlantic Coast**.

During the week, more than 30 daily-record highs were set or tied from the **West Coast** to the **Mississippi Delta**. On Sunday, **Phoenix, AZ** noted a daily record-tying maximum of 111°F, equaling their highest reading (also observed on July 1) of the year-to-date. Meanwhile in **Mississippi, Meridian** posted consecutive daily records on Sunday (99°F) and Monday (101°F). Heat intensified at midweek in parts of the **West** and across the **South Central States**. On Wednesday, **Paso Robles, CA** recorded 109°F. With a maximum of 102°F on Wednesday, **Las Vegas, NV** recorded their first above-normal high temperature since July 5. On August 26, temperatures soared to daily-record levels in locations such as **Tulsa, OK** (109°F), **Dallas-Ft. Worth, TX** (106°F), and **Ft. Smith, AR** (106°F). Although **Tulsa's** reading fell shy of their August record (115°F on August 10, 1936), it represented their highest temperature so late in the season since the mercury reached 109°F on September 2 and 3, 1939.

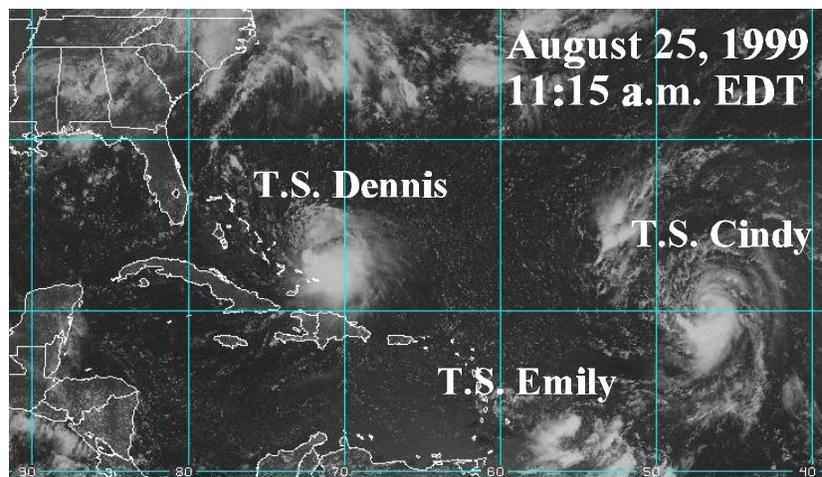
**Little Rock, AR** received 0.50 inch of rain on Tuesday, their first half-inch rain event since 0.62 inch fell on July 10-11. In **Dallas-Ft. Worth**, however, dry weather continued through week's end. **Dallas-Ft. Worth's** 49-day spell (July 11 - August 28) without measurable rain is approaching their record of 58

days, set in November-December 1950 and May-July 1934. In addition, **Dallas-Ft. Worth's** August 1-28 total of 25 days with highs at or above 100°F is nearing their August record of 26 days, established in 1952. Elsewhere in **Texas**, **Houston's** total of 9 August days with triple-digit heat is second only to 14 such days in August 1993.

In **Huntington, WV**, 3.59 inches of rain fell on August 24-25, their greatest 24-hour total on record in August and highest since 3.73 inches fell on May 28, 1990. **Jackson, KY** recorded 3.84 inches on August 24, their highest 1-day August total since the station opened in 1981. Farther east, **Washington, DC** netted 2.03 inches on August 26, their highest single-day total since 2.06 inches fell on August 20, 1997. **Washington's** 2-day (August 25-26) rainfall of 3.40 inches was their highest since November 27-28, 1993, and was more than their June-July total of 3.36 inches. Furthermore, **Washington's** August 1-28 total (5.02 inches) exceeded their May-July rainfall of 4.55 inches. Although, weekly rainfall exceeded 4 inches in a few isolated areas from near the **Virginia-North Carolina border** to the vicinity of **New York City**, 14-month precipitation deficits remained greater than 1 inch per month (14 inches) in much of the **Mid-Atlantic region**.

Hurricane Bret produced more than 4 inches of rain near its landfall in **southern Texas**, and lower amounts farther to the west. About 60 miles north of the **Padre Island** landfall, **Corpus Christi, TX** collected daily-record totals on Sunday (4.56 inches) and Monday (2.04 inches). Just north of Bret's track in **Kenedy County, Sarita** reported 24-hour totals of 8.20 inches on August 22-23 and 4.50 inches on August 23-24. At week's end, Hurricane Dennis was poised to brush the **coastal Carolinas**. Additional details will be published in next week's summary.

Colder air overspread **Alaska**, especially toward week's end. In **Barrow**, flurries developed on August 27, their first snowfall since June 29. A day later, **Cold Bay** registered 32°F, representing their lowest August temperature (formerly 33°F in 1946) and earliest freeze on record.



**Three Storms:** On the morning of August 25, less than 3 days after Hurricane Bret struck southern Texas, three tropical storms prowled the Atlantic Basin. Cindy became a Category 4 hurricane (140 mph sustained winds) over the central Atlantic Ocean on August 28, and Dennis brushed the Carolinas as a Category 2 hurricane (100 to 105 mph winds) on August 29-30. Emily dissipated on August 28 after interacting with Hurricane Cindy.



National Weather Data for Selected Cities

Weather Data for the Week Ending August 28, 1999

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL	BIRMINGHAM	93	72	97	67	83	4	0.66	-0.10	0.33	12.96	106	37.98	100	87	43	6	0	2	0
	HUNTSVILLE	92	67	96	63	79	2	0.03	-0.72	0.02	8.84	73	35.99	93	91	37	6	0	2	0
AK	ANCHORAGE	61	48	68	46	55	0	1.10	0.51	0.95	7.02	139	9.54	109	96	59	0	0	4	1
	BARROW	40	35	45	31	38	1	0.26	0.06	0.23	2.48	118	2.95	104	94	73	0	2	2	0
AZ	FLAGSTAFF	79	49	84	45	64	1	0.39	-0.19	0.15	5.85	103	10.63	73	96	36	0	0	6	0
	PHOENIX	106	84	110	76	95	5	0.77	0.55	0.56	3.84	210	5.26	119	52	24	7	0	3	1
CA	BAKERSFIELD	100	70	104	67	85	4	0.52	-0.03	0.00	4.00	0	5.42	138	55	22	7	0	0	0
	EUREKA	65	55	66	55	60	2	0.00	-0.13	0.00	0.49	46	27.53	128	92	77	0	0	0	0
CO	ALAMOSA	79	47	82	45	63	2	0.53	0.29	0.51	3.68	128	6.18	125	95	33	0	0	3	1
	CO SPRINGS	85	57	87	54	71	5	0.06	-0.56	0.06	10.64	134	22.29	173	79	27	0	0	1	0
CT	BRIDGEPORT	79	65	85	59	72	0	0.35	-0.35	0.27	6.12	60	25.39	91	94	63	0	0	2	0
	HARTFORD	81	60	87	56	70	0	0.18	-0.67	0.12	6.01	59	23.39	82	97	51	0	0	4	0
DC	WASHINGTON	85	68	89	65	77	-1	4.43	3.57	2.03	8.36	78	23.56	92	96	51	0	0	5	3
	WILMINGTON	82	65	87	57	74	0	1.72	0.98	1.04	6.34	58	26.19	95	95	53	0	0	5	2
FL	DAYTONA BEACH	90	74	91	71	82	1	0.07	-1.37	0.07	16.15	95	26.76	85	97	59	5	0	1	0
	JACKSONVILLE	92	73	94	71	82	1	0.30	-1.57	0.12	14.28	78	23.74	67	98	6	0	4	0	
GA	ATLANTA	87	70	92	68	79	1	1.05	0.29	0.83	10.55	89	26.75	75	89	49	3	0	3	1
	AUGUSTA	91	70	94	68	80	2	0.83	-0.13	0.45	12.78	102	26.80	82	98	52	5	0	3	0
HI	HONOLULU	87	75	88	73	81	0	0.00	-0.10	0.00	0.76	50	7.01	58	75	44	0	0	0	0
	KAHULUI	86	71	87	66	79	-1	0.04	-0.07	0.04	0.22	20	6.68	50	83	49	0	0	1	0
ID	BOISE	93	65	96	56	79	8	0.02	-0.09	0.02	0.76	50	6.59	86	52	20	6	0	1	0
	LEWISTON	96	63	100	57	79	8	0.00	-0.19	0.00	1.71	65	6.64	80	61	18	7	0	0	0
IL	CHICAGO/O'HARE	80	64	90	54	72	2	1.02	0.06	0.58	11.02	98	30.83	130	95	61	1	0	3	1
	SPRINGFIELD	83	61	88	57	72	0	1.40	0.66	1.38	9.74	98	22.31	94	95	54	0	0	3	1
IN	EVANSVILLE	87	61	92	56	74	0	0.01	-0.65	0.01	8.99	87	30.61	103	91	38	2	0	1	0
	INDIANAPOLIS	83	61	88	57	72	0	0.24	-0.52	0.13	7.05	62	26.52	96	93	49	0	0	3	0
IA	SOUTH BEND	79	64	88	53	72	2	2.14	1.31	1.69	9.15	81	24.15	95	96	60	0	0	4	1
	BURLINGTON	89	64	95	60	76	5	1.47	0.59	1.45	12.15	103	27.43	113	90	52	3	0	3	1
KS	DES MOINES	84	64	90	60	74	2	1.14	0.19	1.14	11.42	95	25.09	107	94	53	1	0	1	1
	DODGE CITY	96	65	100	61	81	4	0.00	-0.57	0.00	7.51	85	17.66	107	80	29	7	0	0	0
MO	ST. LOUIS	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
	SPRINGFIELD	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
NE	OMAHA	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
	LINCOLN	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
ND	BISMARCK	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
	SIOUX FALLS	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
OK	MUSKOGEE	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
	OKMULLEE	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
TX	DALLAS	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
	HOUSTON	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
VA	CHARLOTTE	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
	ROANOKE	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
WV	CHARLOTTE	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
	MOOREHEAD	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
WY	CHEYENNE	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0
	LARAMIE	89	61	93	56	75	0	0.00	-0.79	0.00	6.99	62	22.49	105	92	40	3	0	0	0

Based on 1961-90 normals

Weather Data for the Week Ending August 28, 1999

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE	
KY WICHITA	95	69	105	62	82	4	0.02	-0.69	0.02	11.90	117	28.72	140	81	34	6	0	1	0	
KY JACKSON	83	62	89	59	72	0	4.13	3.30	3.85	12.00	93	30.70	91	93	53	0	0	2	1	
KY LEXINGTON	87	64	92	61	75	2	0.72	-0.09	0.71	8.74	71	24.61	79	88	42	1	0	2	1	
KY LOUISVILLE	89	66	96	62	77	3	0.00	-0.74	0.00	9.58	85	30.56	99	86	38	4	0	0	0	
KY PADUCAH	90	61	94	56	75	0	0.00	-0.74	0.00	9.79	87	31.56	95	94	34	4	0	0	0	
LA BATON ROUGE	96	75	98	71	86	4	0.08	-1.20	0.08	12.72	76	31.20	74	97	47	7	0	1	0	
LA LAKE CHARLES	97	75	99	71	86	5	0.00	-1.23	0.00	13.71	92	28.64	81	97	47	7	0	0	0	
LA NEW ORLEANS	94	78	97	78	86	5	0.14	-1.24	0.12	21.36	122	33.75	79	94	55	7	0	2	0	
LA SHREVEPORT	98	72	104	69	85	4	1.48	0.95	1.35	12.26	121	42.58	140	88	32	6	0	2	1	
ME CARIBOU	82	57	86	51	70	9	0.14	-0.75	0.14	9.87	93	21.00	92	96	43	0	0	1	0	
ME PORTLAND	80	58	88	54	69	3	0.20	-0.44	0.09	4.00	44	23.80	87	98	51	0	0	4	0	
MD BALTIMORE	82	65	86	58	74	-1	4.17	3.29	1.50	10.22	94	25.03	92	100	56	0	0	4	3	
MA BOSTON	77	64	87	57	70	0	0.13	-0.61	0.09	4.91	55	20.17	76	94	61	0	0	2	0	
MA WORCESTER	77	61	83	54	69	3	0.19	-0.67	0.13	5.74	51	22.94	75	93	57	0	0	3	0	
MI ALPENA	82	55	88	47	68	5	0.00	-0.77	0.00	6.82	76	14.26	75	99	46	0	0	0	0	
MI GRAND RAPIDS	78	62	89	53	70	2	1.57	0.71	1.04	10.56	105	25.70	114	100	64	0	0	5	1	
MI HOUGHTON LAKE	80	55	84	47	67	4	0.06	-0.74	0.02	13.09	152	20.74	115	99	52	0	0	5	0	
MI LANSING	78	58	89	48	68	1	0.59	-0.19	0.28	10.84	119	22.53	115	99	67	0	0	6	0	
MI MARQUETTE	77	55	86	50	66	6	0.00	-0.82	0.00	10.05	107	27.11	125	92	46	0	0	0	0	
MI MUSKEGON	77	63	86	55	70	3	0.56	-0.29	0.22	9.51	127	22.92	118	100	68	0	0	6	0	
MN DULUTH	77	59	86	55	68	6	0.76	-0.15	0.72	19.81	180	28.85	143	98	60	0	0	3	1	
MN INT'L FALLS	80	54	86	47	67	5	0.01	-0.68	0.01	12.21	118	22.35	132	99	54	0	0	1	0	
MN MINNEAPOLIS	82	64	91	60	73	5	0.79	0.00	0.79	10.87	100	25.80	126	98	57	1	0	1	1	
MN ROCHESTER	78	61	85	58	69	3	1.65	0.80	1.01	18.81	164	34.48	165	100	69	0	0	6	2	
MS ST. CLOUD	81	61	91	55	71	6	0.19	-0.72	0.08	12.51	111	21.37	109	98	56	1	0	5	0	
MS JACKSON	96	70	98	64	83	3	0.17	-0.64	0.12	10.11	91	30.03	80	93	39	6	0	3	0	
MS MERIDIAN	94	68	101	65	81	1	0.69	-0.05	0.47	7.72	64	26.86	68	98	44	6	0	4	0	
MS TUPELO	94	68	97	64	81	2	0.20	-0.46	0.20	9.74	89	42.56	113	88	35	6	0	1	0	
MO COLUMBIA	89	61	95	58	75	1	0.16	-0.60	0.16	6.04	55	21.16	81	93	44	4	0	1	0	
MO KANSAS CITY	87	63	94	59	75	1	0.10	-0.84	0.08	10.88	86	30.47	119	94	47	3	0	2	0	
MO SAINT LOUIS	88	66	91	62	77	1	0.12	-0.49	0.12	11.42	113	28.36	113	86	43	3	0	1	0	
MO SPRINGFIELD	87	63	92	57	75	-1	1.34	0.46	0.82	7.10	64	29.74	108	96	48	3	0	4	1	
MT BILLINGS	89	60	94	52	75	6	0.36	0.11	0.24	4.01	105	9.16	84	64	17	4	0	2	0	
MT BUTTE	84	48	90	42	66	7	0.52	0.22	0.42	5.07	111	10.54	116	90	22	3	0	3	0	
MT GLASGOW	89	59	95	49	74	6	0.16	-0.12	0.16	5.86	116	12.13	142	64	19	4	0	1	0	
MT GREAT FALLS	87	55	94	49	71	6	0.05	-0.31	0.04	4.18	83	9.09	79	68	21	4	0	2	0	
MT KALISPELL	87	49	92	44	68	7	0.00	-0.33	0.00	3.91	85	9.54	85	84	23	1	0	0	0	
MT MILES CITY	92	62	102	51	77	7	0.12	-0.13	0.12	4.32	81	9.28	88	63	20	4	0	1	0	
MT MISSOULA	86	51	91	45	68	4	0.00	-0.28	0.00	5.01	133	8.49	89	80	21	1	0	0	0	
NE GRAND ISLAND	86	60	89	53	73	1	0.77	0.11	0.76	13.67	147	24.44	131	96	50	0	0	2	1	
NE LINCOLN	87	61	92	56	74	1	0.01	-0.79	0.01	11.15	110	24.48	121	95	48	3	0	1	0	
NE NORFOLK	85	61	90	56	73	2	0.00	-0.55	0.00	11.56	116	22.67	119	96	50	2	0	0	0	
NE NORTH PLATTE	86	57	91	48	71	1	0.80	0.46	0.55	11.72	146	17.71	115	98	46	2	0	2	1	
NE OMAHA	85	62	90	57	74	2	0.00	-0.75	0.00	12.72	124	28.99	138	96	54	2	0	0	0	
NE SCOTTSBLUFF	90	59	97	53	75	5	1.69	1.47	1.59	7.69	135	13.94	115	85	29	5	0	4	1	
NE VALENTINE	92	57	102	45	75	5	0.07	-0.39	0.04	8.77	109	15.76	108	92	26	3	0	2	0	
NV ELY	84	48	88	45	66	2	0.58	0.38	0.44	3.20	136	5.62	82	90	19	0	0	4	0	
NV LAS VEGAS	102	80	106	78	91	4	0.04	-0.07	0.04	2.58	284	3.39	123	44	18	7	0	1	0	
NV RENO	91	56	95	53	74	6	0.00	-0.08	0.00	0.82	81	3.72	76	65	17	5	0	0	0	
NV WINNEMUCCA	93	52	98	43	73	5	0.08	-0.03	0.08	1.40	90	4.74	88	66	19	5	0	1	0	
NH CONCORD	80	58	89	53	69	3	1.14	0.41	1.11	9.80	104	24.46	105	98	49	0	0	4	1	
NJ NEWARK	83	66	89	59	74	-1	2.73	1.88	2.53	6.99	62	26.70	90	89	52	0	0	4	1	
NM ALBUQUERQUE	88	65	91	64	77	2	0.74	0.39	0.37	5.13	148	7.47	127	69	26	1	0	3	0	
NY ALBANY	79	59	85	53	69	1	0.75	-0.02	0.53	7.81	78	21.70	91	99	54	0	0	5	1	
NY BINGHAMTON	77	58	81	53	68	2	0.38	-0.36	0.31	7.29	72	20.23	84	97	54	0	0	3	0	
NY BUFFALO	79	63	84	53	71	3	2.44	1.48	1.18	7.69	74	22.02	91	97	59	0	0	3	3	
NY ROCHESTER	80	62	83	55	71	4	1.24	0.46	0.97	10.06	114	22.74	110	97	57	0	0	3	1	
NY SYRACUSE	85	61	89	55	73	6	0.01	-0.79	0.01	5.38	50	18.50	75	87	41	0	0	1	0	
NC ASHEVILLE	81	61	86	54	71	0	3.02	1.99	2.01	11.68	90	29.15	89	100	59	0	0	3	2	
NC CHARLOTTE	87	68	90	62	78	0	0.87	0.04	0.44	8.93	83	22.04	76	98	50	2	0	4	0	
NC GREENSBORO	84	66	87	62	75	0	2.39	1.56	1.43	13.54	114	27.76	96	93	53	0	0	4	2	
NC HATTERAS	84	74	86	71	79	1	0.63	-0.73	0.45	10.14	70	31.37	88	91	70	0	0	4	0	
NC RALEIGH	87	67	90	64	77	1	1.09	0.22	0.64	7.43	65	22.96	80	97	55	2	0	2	1	
NC WILMINGTON	88	74	91	70	81	2	0.43	-1.02	0.15	12.36	60	34.99	89	91	61	2	0	4	0	
ND BISMARCK	85	59	91	52	72	6	0.01	-0.36	0.01	13.58	212	23.93	201	92	45	3	0	1	0	
ND DICKINSON	85	57	91	50	71	5	0.04	-0.29	0.02	6.02	91	13.52	108	78	33	2	0	1	0	
ND FARGO	83	59	93	56	71	4	0.01	-0.51	0.01	6.01	78	13.70	97	94	53	2	0	1	0	
ND GRAND FORKS	81	56	87	52	69	4	1.06	0.54	0.63	8.29	107	17.46	131	97	51	0	0	3	1	
ND JAMESTOWN	84	58	90	55	71	5	0.63	0.19	0.63	9.18	120	18.88	145	95	47	3	0	1	1	
ND WILLISTON	89	56	97	50	73	6	0.00	-0.25	0.00	6.97	127	13.27	127	75	23	4	0	0	0	
OH AKRON-CANTON	77	60	84	54	69	0	1.20	0.48	0.79	9.81	96	24.44	98	99	69	0	0	4	1	
OH CINCINNATI	83	62	90	58	72	0	0.81	0.11	0.41	8.85	80	24.03	84	93	48	1	0	2	0	
OH CLEVELAND	79	61	86	55	70	1	0.77	0.00	0.42	7.92	77	20.71	86	96	60	0	0	5	0	
OH COLUMBUS	82	64	88	59	73	3	1.92	1.13	1.65	6.15	52	20.11	76	96	52	0	0	3	1	
OH DAYTON	82	62	89	56	72	1	1.35	0.66	0.87	8.35	81	23.37	92	93	48	0	0	3	1	
OH MANSFIELD	77	60	84	52	69	-1	0.59	-0.31	0.48	9.30	79	25.22	93	97	62	0	0	6	0	

Weather Data for the Week Ending August 28, 1999

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	50 INCH OR MORE
OK TOLEDO	79	62	90	53	71	2	0.43	-0.29	0.28	6.28	63	22.34	102	97	62	1	0	4	0
OK YOUNGSTOWN	78	58	84	50	68	1	1.26	0.52	0.93	11.91	108	28.87	116	98	59	0	0	3	1
OK OKLAHOMA CITY	99	72	104	67	86	6	0.13	-0.52	0.12	11.92	129	28.40	126	76	30	7	0	2	0
OK TULSA	98	70	105	63	84	4	0.13	-0.65	0.11	5.80	56	30.37	114	83	30	7	0	2	0
OR ASTORIA	72	54	81	48	63	2	0.03	-0.33	0.01	5.11	108	54.96	149	96	64	0	0	3	0
OR BURNS	89	49	92	43	69	6	0.00	-0.17	0.00	0.89	49	5.94	96	69	16	2	0	0	0
OR EUGENE	88	55	92	52	71	4	0.01	-0.27	0.01	1.59	55	27.92	102	89	29	1	0	1	0
OR MEDFORD	97	62	100	57	79	8	0.01	-0.13	0.01	1.65	129	11.53	116	73	18	7	0	1	0
OR PENDLETON	93	61	96	54	77	7	0.00	-0.14	0.00	0.91	61	5.45	74	57	21	6	0	0	0
OR PORTLAND	86	60	91	56	73	5	0.00	-0.29	0.00	2.73	89	25.63	126	82	34	1	0	0	0
OR SALEM	87	57	89	53	72	6	0.00	-0.20	0.00	2.08	81	31.41	146	89	33	0	0	0	0
PA ALLENTOWN	81	60	86	51	70	0	1.29	0.33	1.07	3.32	28	19.16	66	96	52	0	0	3	1
PA ERIE	78	63	86	55	71	2	0.53	-0.43	0.24	8.29	74	24.24	96	94	63	0	0	5	0
PA MIDDLETOWN	83	65	88	57	74	1	0.60	-0.14	0.26	8.93	86	22.89	85	94	54	0	0	4	0
PA PHILADELPHIA	83	66	87	60	75	1	2.75	1.92	2.12	7.89	69	26.76	94	95	55	0	0	4	2
PA PITTSBURGH	80	60	84	54	70	1	0.82	0.13	0.62	10.26	99	27.08	107	97	50	0	0	5	1
PA WILKES-BARRE	79	59	84	50	69	1	0.26	-0.48	0.24	6.78	63	20.55	85	94	50	0	0	2	0
PA WILLIAMSPORT	80	60	86	52	70	1	0.35	-0.39	0.32	9.91	87	24.87	92	97	55	0	0	4	0
RI PROVIDENCE	80	63	86	58	72	2	1.90	1.07	1.67	4.31	44	25.63	88	97	58	0	0	3	1
SC BEAUFORT	90	73	93	71	82	2	0.36	-1.38	0.22	22.94	117	35.80	95	97	63	4	0	4	0
SC CHARLESTON	90	75	93	73	82	3	0.34	-1.22	0.12	8.62	43	22.02	59	96	58	5	0	4	0
SC COLUMBIA	91	72	94	68	81	2	0.26	-1.04	0.13	8.68	55	22.32	62	95	50	5	0	3	0
SC GREENVILLE	88	68	91	65	78	2	0.61	-0.25	0.57	7.54	58	21.87	62	88	49	4	0	2	1
SD ABERDEEN	86	61	95	56	73	5	0.46	0.01	0.45	10.16	130	16.64	116	96	47	2	0	2	0
SD HURON	90	62	100	54	76	6	0.04	-0.37	0.04	5.32	68	12.32	79	96	42	2	0	1	0
SD RAPID CITY	89	59	94	49	74	6	0.02	-0.33	0.01	9.71	146	17.04	130	76	27	4	0	2	0
SD SIOUX FALLS	85	62	95	53	74	4	0.17	-0.50	0.15	7.65	89	19.94	118	96	49	3	0	2	0
TN BRISTOL	85	62	88	53	73	1	0.28	-0.39	0.17	12.15	113	27.30	97	96	45	0	0	4	0
TN CHATTANOOGA	91	68	93	61	79	2	0.44	-0.33	0.43	10.24	89	37.01	103	94	42	5	0	2	0
TN KNOXVILLE	87	66	90	63	76	1	0.46	-0.18	0.28	19.11	166	41.82	128	95	45	1	0	3	0
TN MEMPHIS	90	70	96	68	80	0	0.88	0.11	0.88	7.26	69	35.81	104	85	45	4	0	1	1
TN NASHVILLE	89	66	91	60	78	1	1.03	0.26	1.03	9.80	92	31.91	99	92	38	4	0	1	1
TX ABILENE	100	75	103	70	87	5	0.00	-0.68	0.00	5.07	68	13.18	83	67	27	7	0	0	0
TX AMARILLO	94	65	97	60	80	5	0.00	-0.71	0.00	8.53	92	23.15	157	78	28	7	0	0	0
TX AUSTIN	98	73	102	71	86	2	0.01	-0.51	0.01	9.71	128	21.90	106	94	37	7	0	1	0
TX BEAUMONT	97	76	99	74	86	4	0.00	-1.26	0.00	12.49	79	24.33	67	96	45	7	0	0	0
TX BROWNSVILLE	92	76	96	75	84	0	1.16	0.35	0.67	6.83	98	15.33	104	96	57	6	0	4	1
TX CORPUS CHRISTI	88	75	94	73	82	-2	6.84	5.95	4.54	16.68	193	22.77	124	100	69	3	0	5	2
TX DEL RIO	93	74	100	70	84	0	2.40	2.02	2.40	9.50	181	14.90	130	90	44	5	0	1	1
TX EL PASO	93	71	97	68	82	3	0.05	-0.31	0.05	4.91	135	5.07	96	65	31	6	0	1	0
TX FORT WORTH	102	79	106	73	90	7	0.00	-0.54	0.00	1.76	24	16.17	72	65	29	7	0	0	0
TX GALVESTON	92	81	94	80	86	3	0.23	-0.88	0.21	10.14	83	19.25	74	87	62	7	0	2	0
TX HOUSTON	97	76	100	74	86	5	0.25	-0.60	0.25	10.91	94	22.46	77	95	47	7	0	1	0
TX LUBBOCK	94	68	100	66	81	4	0.54	-0.04	0.41	5.96	81	15.28	121	81	34	6	0	3	0
TX MIDLAND	96	72	100	68	84	5	0.05	-0.38	0.04	3.54	74	6.38	69	70	25	7	0	2	0
TX SAN ANGELO	98	71	100	68	84	3	0.00	-0.54	0.00	5.39	107	11.74	94	74	28	7	0	0	0
TX SAN ANTONIO	94	75	98	72	84	0	1.16	0.53	1.03	6.73	82	13.99	70	93	43	6	0	2	1
TX VICTORIA	93	73	98	71	83	0	0.87	0.07	0.72	7.89	73	20.63	88	100	53	5	0	2	1
TX WACO	102	78	105	76	90	5	0.00	-0.45	0.00	3.39	51	14.10	69	79	33	7	0	0	0
TX WICHITA FALLS	104	74	105	69	89	7	0.01	-0.65	0.01	6.08	82	23.57	123	72	26	7	0	1	0
UT SALT LAKE CITY	90	66	93	63	78	5	0.01	-0.20	0.01	1.45	57	10.11	94	64	23	3	0	1	0
VT BURLINGTON	84	61	89	54	72	6	0.43	-0.47	0.42	6.24	58	16.24	73	95	44	0	0	2	0
VA LYNCHBURG	83	62	86	57	72	-1	1.29	0.52	1.11	8.54	78	21.71	80	98	49	0	0	4	1
VA NORFOLK	84	70	89	68	77	1	1.03	-0.01	0.84	13.54	102	30.19	97	92	60	0	0	3	1
VA RICHMOND	84	67	88	65	76	0	0.53	-0.39	0.39	11.13	88	26.69	91	98	58	0	0	2	0
VA ROANOKE	81	63	86	56	72	-1	1.85	0.94	1.51	8.97	83	22.57	83	97	59	0	0	4	1
VA WASH/DULLES	84	63	87	55	73	1	4.83	3.94	3.03	10.94	100	27.29	102	100	51	0	0	5	2
WA OLYMPIA	80	50	87	45	65	2	0.02	-0.32	0.01	3.15	88	39.65	143	94	36	0	0	2	0
WA QUILLAYUTE	73	49	82	43	61	2	0.32	-0.31	0.31	7.46	94	73.85	125	100	63	0	0	2	0
WA SEATTLE-TACOMA	77	57	82	54	67	2	0.00	-0.30	0.00	3.97	121	24.92	123	90	46	0	0	0	0
WA SPOKANE	89	57	95	48	73	6	0.00	-0.17	0.00	2.41	93	9.41	93	64	21	3	0	0	0
WA YAKIMA	91	56	95	48	74	6	0.00	-0.11	0.00	1.43	136	4.69	100	77	24	4	0	0	0
WV BECKLEY	77	58	81	52	67	0	1.59	0.87	1.59	8.80	76	25.15	89	93	57	0	0	1	1
WV CHARLESTON	83	62	88	56	72	0	1.09	0.26	0.84	9.64	79	24.75	85	100	53	0	0	3	1
WV ELKINS	79	55	85	48	67	0	0.84	-0.12	0.43	5.63	44	24.65	80	100	50	0	0	4	0
WV HUNTINGTON	83	61	89	55	72	0	3.80	3.01	3.25	8.36	72	22.75	79	97	51	0	0	2	2
WI EAU CLAIRE	80	61	90	58	71	4	1.07	0.05	0.93	11.70	96	26.21	118	98	58	1	0	2	1
WI GREEN BAY	80	58	87	52	69	4	0.18	-0.63	0.14	11.04	115	19.55	102	99	60	0	0	3	0
WI LACROSSE	82	64	89	61	73	4	0.24	-0.66	0.24	12.72	113	27.48	130	97	59	0	0	1	0
WI MADISON	79	60	87	56	70	3	1.44	0.52	1.26	13.39	125	27.50	131	99	63	0	0	3	1
WI MILWAUKEE	78	66	87	62	72	4	0.26	-0.54	0.17	14.12	142	30.71	140	91	65	0	0	2	0
WI CASPER	90	56	93	48	73	7	0.04	-0.10	0.03	2.14	64	6.93	76	70	17	4	0	2	0
WY CHEYENNE	84	57	90	52	70	6	0.12	-0.23	0.12	5.23	92	13.23	117	77	28	2	0	1	0
WY LANDER	89	56	92	52	73	6	0.02	-0.12	0.02	2.13	78	10.99	117	63	17	3	0	1	0
WY SHERIDAN	91	55	97	48	73	7	0.00	-0.21	0.00	2.12	55	8.97	87	72	28	4	0	0	0

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

## National Agricultural Summary

August 23 - 29, 1999

### HIGHLIGHTS

**Temperatures averaged slightly above normal across most of the Nation, promoting rapid crop development and quickly drying ripening crops. Dry weather aided small grain harvest in most areas from the Great Lakes to the Pacific Northwest. In the central and southern Great Plains, field preparations for winter wheat seeding were delayed, while growers waited for rain to recharge soil moisture levels. Scattered rains boosted crop conditions in the**

**central Corn Belt and parts of the Southeast and Atlantic Coastal Plains, and soaking rains eased drought conditions in the middle Atlantic Coast States. However, some crops were too mature to benefit from the moisture. Crop development accelerated in the Southwest due to warm weather, but progress remained behind normal in many areas of California and Arizona.**

**Corn:** Ninety-two percent of the acreage was in the dough stage or beyond, slightly ahead of last year's 91-percent pace, and 1 week ahead of the 81-percent average. Corn rapidly entered the dough stage in the northern Corn Belt and central Great Plains, advancing 25 percentage points or more in most areas of Minnesota and Michigan, and more than 20 percentage points in Colorado. Forty-two percent of the crop was at the dent stage or beyond, ahead of last year's 36-percent pace and the average of 25 percent. Fields rapidly progressed to the dent stage in most Corn Belt States. Denting advanced 25 percentage points or more in Minnesota, Nebraska, and Iowa, and nearly 25 percentage points in Kansas. Denting lagged behind normal in Colorado and Texas. Twelve percent of the crop was mature, ahead of the average, but behind last year. Above-normal temperatures quickly ripened fields in the Southeast, and about half of the acreage was mature in Kentucky and Missouri. Scattered showers relieved moisture shortages in parts of the Corn Belt, but conditions slightly deteriorated in many areas due to excessive dryness and above-normal temperatures. Dry weather aided harvest progress in the southern Great Plains, Southeast, and along the Ohio and Mississippi River Valleys.

**Soybeans:** Ninety-four percent of the crop was at the pod setting stage or beyond, slightly ahead of last year and the 5-year average. Pod setting rapidly advanced along the Ohio and Mississippi River Valleys, the Atlantic Coastal Plains, and central Great Plains. Development remained slightly behind normal in the Southeast. Six percent of the acreage was dropping leaves, compared with 5 percent last year, and 3 percent normally dropping leaves by this date. Warm weather quickly ripened fields in Kentucky, Mississippi, Tennessee, and Ohio. More than half of the acreage was dropping leaves in Mississippi, 34 percentage points ahead of the average. Rain boosted conditions in Illinois, Indiana, and Mississippi, but conditions deteriorated in most other Corn Belt and Mississippi Delta States.

**Cotton:** Bolls were opening on 35 percent of the cotton acreage, equal to last year, but 7 percentage points ahead of the 5-year average. Warm weather accelerated ripening in Mississippi, Missouri, and Tennessee, where fields with open bolls advanced 25 percentage points or more in most areas. Warm weather also promoted rapid development in the Southwest, but fields with open bolls continued to lag behind normal in Arizona and California. In Texas, harvest activity advanced northward into the Blacklands, Central, and the Upper Coast regions. Dry soils and above-normal temperatures stressed fields in most cotton-producing States,

especially in Texas and New Mexico. Rain improved conditions in isolated areas of the Southeast and Atlantic Coastal Plains, but some fields were too mature to benefit from the moisture.

**All Wheat:** The spring wheat harvest advanced to 61 percent complete, well behind last year's 87-percent pace, but only 4 percentage points behind the average. Dry weather aided harvest progress in Montana and Idaho, but progress remained well behind normal. Isolated rains caused brief harvest delays in parts of Minnesota and North Dakota. Growers finished harvesting a few days ahead of normal in South Dakota. Winter wheat harvest continued in the Pacific Northwest. In the southern Great Plains, field preparations for winter wheat seeding were delayed, as many growers waited for rain to recharge soil moisture levels. A few fields were seeded in Texas and Oklahoma, despite dry soil conditions.

**Other small grains:** The barley crop was 55 percent harvested, 16 percentage points behind the average and 33 percentage points behind last year's progress. Rain briefly halted progress in parts of the upper Mississippi Valley, but dry weather aided progress in the northern Great Plains and Pacific Northwest. The oat crop was 90 percent harvested, 6 percentage points behind last year, but slightly ahead of the 89-percent average. Harvest was delayed by isolated showers in Minnesota, but rain delays were minimal in North Dakota.

**Rice:** Ninety-six percent of the acreage was headed, ahead of last year, but slightly behind the average. Above-normal temperatures accelerated development in California, where 80 percent of the acreage was headed, up 25 percentage points from a week earlier. Twenty-six percent of the acreage was harvested, 4 percentage points ahead of the average and slightly ahead of last year. The harvest pace remained active along the western Gulf Coast. Rain delays were minimal in inland areas of the Mississippi Delta, where the harvest pace gained momentum.

**Other crops:** Sorghum was 94 percent headed, 53 percent was turning color, and 28 percent was mature, virtually equal to the 5-year average for each stage. Last year, 96 percent was headed, 61 percent was turning color, and 27 percent was mature by this date. Fields rapidly progressed to the heading stage in New Mexico and South Dakota, and fields turning color advanced 29 percentage points in Illinois. Hot weather quickly ripened fields in the southern Great Plains and lower Mississippi Valley.

## Crop Progress and Condition

Week Ending August 29, 1999

Soybeans Percent Setting Pods				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
AL	71	63	78	75
AR	88	78	80	80
GA	78	71	79	83
IL	95	92	90	92
IN	99	97	95	93
IA	100	100	100	99
KS	87	75	98	90
KY	85	74	75	74
LA	99	98	99	97
MI	100	97	100	94
MN	99	98	99	98
MS	100	100	98	93
MO	85	74	87	84
NE	99	92	99	97
NC	65	55	70	68
OH	100	100	99	95
SC	49	40	58	66
SD	95	89	96	96
TN	87	77	78	74
19 Sts	94	90	93	92

These 19 States planted 93% of last year's soybean acreage.

Soybeans Percent Dropping Leaves				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
AL	10	4	4	2
AR	5	3	3	4
GA	11	4	4	5
IL	1	0	1	1
IN	11	7	8	4
IA	0	0	7	2
KS	6	1	11	7
KY	11	1	4	4
LA	23	16	23	14
MI	1	0	8	2
MN	1	0	3	1
MS	51	34	25	17
MO	2	0	0	0
NE	0	0	1	1
NC	0	0	0	0
OH	17	4	4	2
SC	3	2	0	1
SD	7	*5	15	11
TN	10	0	3	3
19 Sts	6	3	5	3

These 19 States planted 93% of last year's soybean acreage.

Corn Percent Dough				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
CO	70	48	77	70
GA	100	100	100	100
IL	95	91	89	85
IN	100	97	92	87
IA	89	72	90	77
KS	98	83	99	92
KY	99	95	94	94
MI	93	62	92	53
MN	95	68	98	75
MO	95	89	99	92
NE	91	84	93	86
NC	94	88	94	98
OH	93	87	84	83
PA	70	60	73	69
SD	77	72	89	75
TX	100	98	100	99
WI	82	75	82	67
17 Sts	92	81	91	81

These 17 States planted 90% of last year's corn acreage.

Corn Percent Dented				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
CO	16	12	27	27
GA	100	99	100	100
IL	75	56	60	48
IN	74	60	55	40
IA	64	38	64	41
KS	73	49	76	65
KY	87	72	80	76
MI	47	24	54	22
MN	56	23	71	35
MO	86	70	83	73
NE	52	27	67	45
NC	84	70	79	87
OH	62	45	38	28
PA	43	25	27	27
SD	31	*23	47	32
TX	80	70	96	90
WI	42	22	45	25
17 Sts	62	41	62	44

These 17 States planted 90% of last year's corn acreage.

Corn Percent Mature				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
CO	0	NA	0	0
GA	98	NA	97	96
IL	16	NA	10	4
IN	10	NA	13	5
IA	8	NA	9	6
KS	17	NA	25	16
KY	50	NA	20	19
MI	0	NA	6	1
MN	1	NA	2	1
MO	43	NA	42	26
NE	2	NA	3	2
NC	58	NA	58	70
OH	9	NA	3	1
PA	5	NA	3	3
SD	1	NA	12	5
TX	61	NA	79	65
WI	0	NA	4	2
17 Sts	12	NA	13	9

These 17 States planted 90% of last year's corn acreage.

Cotton Percent Bolls Opening				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
AL	32	18	36	22
AZ	39	24	35	66
AR	42	22	29	20
CA	5	4	1	28
GA	36	20	36	31
LA	63	46	77	54
MS	80	54	70	49
MO	53	29	23	17
NM	40	20	12	21
NC	25	22	23	18
OK	4	2	23	8
SC	17	7	30	17
TN	48	15	21	15
TX	29	21	36	26
14 Sts	35	23	35	28

These 14 States planted 98% of last year's cotton acreage.

Spring Wheat Percent Harvested				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
ID	48	29	76	63
MN	65	51	94	66
MT	52	22	85	64
ND	54	37	84	58
SD	100	93	99	95
5 Sts	61	42	87	65

These 5 States harvested 96% of last year's spring wheat acreage.

# Crop Progress and Condition

## Week Ending August 29, 1999

Sorghum Percent Headed				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CO	97	92	96	86
IL	98	97	87	89
KS	95	90	98	95
LA	100	100	100	100
MS	100	100	100	100
MO	92	88	100	95
NE	94	88	99	95
NM	93	78	45	64
OK	89	85	88	85
SD	90	*79	92	90
TX	93	89	97	96
12 Sts	94	89	96	94

These 12 States planted 99% of last year's sorghum acreage.

Sorghum Percent Coloring				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
AR	93	89	78	82
CO	24	7	19	20
IL	65	36	43	32
KS	44	29	47	39
LA	100	100	99	94
MS	99	94	95	92
MO	56	42	72	59
NE	28	10	55	37
NM	15	5	14	12
OK	17	15	50	40
SD	35	*25	52	34
TX	70	59	80	77
12 Sts	53	40	61	54

These 12 States planted 99% of last year's sorghum acreage.

Sorghum Percent Mature				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
AR	53	NA	38	34
CO	0	NA	0	1
IL	1	NA	3	1
KS	6	NA	7	5
LA	98	NA	92	76
MS	92	NA	68	65
MO	18	NA	24	13
NE	0	NA	2	1
NM	0	NA	0	0
OK	6	NA	6	8
SD	1	NA	9	4
TX	61	NA	57	62
12 Sts	28	NA	27	28

These 12 States planted 99% of last year's sorghum acreage.

Oats Percent Harvested				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
IA	100	100	100	100
MI	100	96	100	90
MN	89	82	98	92
NE	100	99	100	100
ND	64	51	90	69
OH	100	100	100	100
PA	98	91	90	90
SD	100	96	98	98
WI	95	89	100	90
9 Sts	90	83	96	89

These 9 States harvested 69% of last year's oat acreage.

Barley Percent Harvested				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
ID	47	30	71	64
MN	67	52	98	75
MT	50	27	85	61
ND	58	37	94	74
SD	100	92	98	96
WA	52	28	90	84
6 Sts	55	35	88	71

These 6 States harvested 84% of last year's barley acreage.

Rice Percent Headed				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
AR	98	96	94	97
CA	80	55	81	94
LA	100	99	99	97
MS	97	95	95	96
TX	100	98	100	99
5 Sts	96	91	94	97

These 5 States planted 96% of last year's rice acreage.

Rice Percent Harvested				
	Aug 29 1999	Prev Week	Prev Year	5-Yr Avg
AR	5	2	5	6
CA	0	0	0	2
LA	79	68	75	64
MS	9	2	19	13
TX	83	53	75	61
5 Sts	26	19	25	22

These 5 States harvested 96% of last year's rice acreage.

Soybeans Crop Condition by Percent					
	VP	P	F	G	EX
AL	29	30	21	18	2
AR	7	16	32	33	12
GA	20	24	38	17	1
IL	2	9	38	43	8
IN	7	19	43	29	2
IA	3	6	21	49	21
KS	2	16	41	38	3
KY	21	33	32	12	2
LA	4	26	39	26	5
MI	4	8	26	48	14
MN	2	10	30	48	10
MS	8	19	27	35	11
MO	21	25	37	16	1
NE	2	9	29	44	16
NC	3	12	29	49	7
OH	7	14	38	35	6
SC	14	33	40	13	0
SD	2	11	31	43	13
TN	28	32	25	15	0
19 Sts	6	14	33	37	10
Prev Wk	6	14	32	38	10
Prev Yr	3	8	24	47	18

## Crop Progress and Condition

Week Ending August 29, 1999

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	1	3	10	58	28
GA	13	18	31	33	5
IL	4	13	43	35	5
IN	7	18	41	31	3
IA	2	6	22	48	22
KS	1	5	34	53	7
KY	7	18	40	30	5
MI	3	8	21	48	20
MN	1	8	28	50	13
MO	19	21	34	23	3
NE	2	6	21	51	20
NC	3	10	45	36	6
OH	9	18	36	32	5
PA	22	25	33	18	2
SD	1	10	26	47	16
TX	0	3	21	54	22
WI	0	3	11	48	38
17 Sts	4	10	29	43	14
Prev Wk	4	10	28	43	15
Prev Yr	2	7	22	50	19

Barley Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	2	20	59	19
MN	9	12	47	29	3
MT	12	24	29	31	4
ND	1	8	32	50	9
SD	0	2	12	66	20
WA	7	26	47	20	0
6 Sts	5	13	32	42	8
Prev Wk	4	14	33	41	8
Prev Yr	NA	NA	NA	NA	NA

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	18	30	28	22	2
AZ	1	9	45	32	13
AR	0	10	31	43	16
CA	0	0	10	65	25
GA	12	19	36	26	7
LA	6	31	31	28	4
MS	4	10	28	48	10
MO	16	16	30	35	3
NM	2	11	26	39	22
NC	1	5	37	51	6
OK	0	11	23	41	25
SC	9	29	38	24	0
TN	11	33	36	19	1
TX	8	25	30	30	7
14 Sts	7	20	30	34	9
Prev Wk	5	17	31	37	10
Prev Yr	14	18	34	30	4

Peanuts Crop Condition by Percent					
	VP	P	F	G	EX
AL	2	9	33	29	27
FL	0	0	21	78	1
GA	9	14	38	33	6
NC	0	7	26	65	2
OK	1	10	37	41	11
SC	7	21	47	16	9
TX	5	9	21	44	21
VA	0	0	8	58	34
8 Sts	5	10	30	41	14
Prev Wk	4	10	31	39	16
Prev Yr	7	12	37	39	5

Sorghum Crop Condition by Percent					
	VP	P	F	G	EX
AR	2	12	39	39	8
CO	0	1	7	65	27
IL	2	16	44	38	0
KS	2	5	29	57	7
LA	0	5	32	58	5
MS	5	8	22	46	19
MO	11	26	45	17	1
NE	0	6	31	51	12
NM	0	1	7	91	1
OK	0	6	20	71	3
SD	0	4	30	59	7
TX	8	12	33	39	8
12 Sts	4	9	30	49	8
Prev Wk	2	8	27	54	9
Prev Yr	7	14	25	45	9

Spring Wheat Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	1	16	67	16
MN	2	19	37	40	2
MT	7	19	27	40	7
ND	2	9	29	50	10
SD	1	4	18	56	21
5 Sts	3	12	28	47	10
Prev Wk	1	12	30	46	11
Prev Yr	NA	NA	NA	NA	NA

Rice Crop Condition by Percent					
	VP	P	F	G	EX
AR	1	3	25	48	23
CA	0	0	30	70	0
LA	0	3	18	59	20
MS	1	5	34	45	15
TX	0	0	6	62	32
5 Sts	1	2	23	55	19
Prev Wk	1	2	21	57	19
Prev Yr	0	5	26	57	12

VP - Very Poor  
P - Poor  
F - Fair  
G - Good  
EX - Excellent

\* - Revised

## State Agricultural Summaries

*These summaries, issued weekly through the summer growing season, provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at <http://www.usda.gov/nass/> or from JAWF at <http://www.usda.gov/occe/waob/jawf>.*

**ALABAMA:** Days suitable for fieldwork 6.9. Topsoil 50% very short, 36% short, 14% adequate. Hot, dry weather continued to cause crop conditions to be mostly fair to good, although, soil moisture very short to short. Corn 89% dough; 86% dented, 95% 1998, 95% avg.; 65% mature, 77% 1998, 72% avg.; 25% harvested, 37% 1998, 24% avg.; 1% very poor, 3% poor, 31% fair, 47% good, 18% excellent. Pasture feed 13% very poor, 25% poor, 40% fair, 21% good, 1% excellent. Livestock 4% poor, 35% fair, 51% good, 10% excellent. Some farmers are preparing to defoliate cotton in the coming weeks.

**ALASKA:** Days suitable for fieldwork 4.4. Topsoil 5% short, 95% adequate. Subsoil 10% short, 90% adequate. Weather conditions for the week were mild, mostly dry. Daytime high temperatures ranged from the upper 50's to the mid-70's degrees F. Nighttime lows were mostly in the 30's, 40's degrees F. Oats 40% in dough or earlier, 60% turning color; 35% fair, 50% good, 15% excellent. Barley 10% in dough or earlier, 90% turning color. Barley 5% poor, 40% fair, 50% good, 5% excellent. Hay 2% 2<sup>nd</sup> cutting complete; 5% poor, 40% fair, 45% good, 10% excellent. Wind damage to small grain crops, 85% none, 10% light, 5% moderate. Major activities included: Harvesting vegetables, grains, hay, grass seeds.

**ARIZONA:** Cotton continues to progress. Alfalfa harvest activity was reported as 28% not being harvested, 5% light, 24% moderate, 43% active. Alfalfa 3% poor, 19% fair, 67% good, 11% excellent. Last week central producers shipped a variety of melons including cantaloupe, casaba, crenshaw, golden honeydew, honeydew, orange flesh santa claus, watermelon.

**ARKANSAS:** Days suitable for fieldwork 7. Topsoil 61% very short, 34% short, 5% adequate. Weak frontal passage caused a moderation in temperatures in some areas of the State, but little, to no rainfall was reported. Most areas were well below normal in rainfall. Rain was needed for pasture growth. Most crops were reported in good condition. Livestock fair condition, hot, humid weather and lack of grazing were causing deaths in poultry, livestock. Many farmers were having to feed hay, supplemental feeding because of the drought. Main farm activities were: Fertilizing cotton, corn, rice, warm season forages, finishing harvesting hay and planning for fall pastures. Other activities: Brush hogging; irrigating corn, soybeans, cotton, sorghum, rice; draining of rice; cultivating cotton; spraying cotton for insects, other fields for insects, weeds; starting corn harvesting; scouting for sheath blight in rice; scouting for and treating webworms in soybeans; treating crop lands for armyworms; spraying rice, cotton, soybean fields for weeds; spraying fruit trees; harvesting small fruit, melons; dusting and ear tagging cattle for external parasites; giving Brucellosis vaccinations; weaning calves. Cotton 22% opening bolls; 11% poor 33% fair 43% good 13% excellent. Soybeans 96% bloomed, 78% setting pods, 3% shedding; 5% very poor 16% poor 32% fair 34% good 13% excellent. Sorghum 100% headed, 89% turning color; 2% very poor 11% poor 42% fair 38% good 7% excellent. Alfalfa 10% very poor 20% poor 33% fair 35% good 2% excellent. Other hay 15% very poor 31% poor 37% fair 17% good. Range, pasture feed 19% very poor 36% poor 33% fair 12% good.

**CALIFORNIA:** Field activities progressed normally under ideal conditions in most areas. Seedbed preparations for fall-seeded small grains were ongoing. Rice heading continued, development was at least a week behind normal due to recent cool morning temperatures. Cotton growth was slowed by the cool weather, but improved as temperatures increased later in the week. Cotton fields were sprayed for aphids in the San Joaquin, Sacramento Valleys. Garbanzo, black eye beans were harvested in the San Joaquin Valley; late maturing black eye fields were treated for insects. Safflower harvest was active in the central valleys. Seed alfalfa harvest gained momentum; later developing fields were sprayed for lygus, mites. Sugar beets were harvested in the Imperial, San Joaquin Valleys. Less mature sugar beets were treated for armyworms, beet webworms, grasshoppers. Harvested sugar beet fields were immediately prepared for planting the next crop. Corn silage harvest was active in central, southern counties. Alfalfa was cut for hay or green chopped; some fields were sprayed for armyworms, alfalfa butterflies. Harvest of grapes for fresh consumption gained momentum in the San Joaquin Valley. Varieties picked included Perlette, Flame Seedless, Thompson Seedless. Vineyard floors were being prepared for the raisin harvest. Picking of early season wine grapes began last week. Other cultural activities in vineyards, orchards included extensive weed control, irrigation. Harvest of plums, nectarines, clingstone peaches, freestone peaches continued. Quality was good. Apple trees were treated

for codling moth. Picking of early variety apples was active. Bartlett pear harvest was active in Lake, Mendocino Counties. Asian pear harvest was active in the San Joaquin Valley. Harvest of early variety almonds began in a few areas. Valencia oranges, lemons were picked in southern areas. Olives were maturing well. Vegetable fieldwork continued; crops were irrigated, cultivated, sprayed for pests, harvested. Melon, cucumber, pumpkin, squash fields were treated for aphids. Lettuce, broccoli crops were harvested. Fall, winter broccoli, cauliflower planting continued, as previously planted fields emerged. Planting was underway for the fall crop of head lettuce. Sweet corn for seed, fresh consumption was treated to control earworms. Onions, potatoes were being dug. Bell peppers were harvested. Processing tomato harvest continued, while less mature tomato fields were treated to control worms and aphids. North Valley processing tomatoes were lagging in harvest, maturity because of the summer's cooler-than-normal weather. Fresh tomato harvest was in full swing. Honeydew, pink honeydew melons were picked, packed. Growing conditions were ideal for all melons. Imperial valley vegetable growers were planting fall melons, treating established stands for white fly. Strawberry growers were preparing, fumigating, planting fields. Among the various vegetable crops harvested were chives, eggplant, leeks, lemon grass, mushrooms, chili peppers, squash, gourds, garlic, sweet potatoes, cherry tomatoes, okra. Irrigated pastures continued to be in fair to good condition. Non-irrigated pastures were in poor to fair condition, depending on the location. Late-week high elevation rainfall, was too late to help many non-irrigated pastures. Some cattle have been shipped to market in recent weeks. Livestock were in good condition. Bees continued to pollinate seed alfalfa, melon fields in central areas.

**COLORADO:** Days suitable for fieldwork 5.8. Topsoil 4% very short, 14% short, 78% adequate, 4% surplus. Subsoil 4% very short, 16% short, 77% adequate, 3% surplus. Rain in the San Luis Valley hampered harvest of small grains, most other areas experienced warmer temperatures with widely scattered rain showers. Spring wheat 97% turning color, 82% 1998, 89% avg.; 44% harvested, 31% 1998, 48% avg.; 5% poor, 12% fair, 63% good, 20% excellent. Spring barley 98% turning color, 98% 1998, 91% avg.; 34% harvested, 55% 1998, 49% avg.; 1% very poor, 7% poor, 20% fair, 57% good, 15% excellent. Oats 90% turning color, 92% 1998, 92% avg.; 55% harvested, 56% 1998, 64% avg. Dry onions 16% harvested, 28% 1998, 25% avg.; 1% very poor, 4% poor, 13% fair, 57% good, 25% excellent. Sugar beets 1% very poor, 2% poor, 13% fair, 53% good, 31% excellent. Dry beans 89% flowered, 98% 1998, 93% avg.; 5% cut, 2% 1998, 3% avg.; 3% poor, 10% fair, 61% good, 26% excellent. Summer potatoes 31% harvested, 18% 1998, 26% avg.; 1% very poor, 5% poor, 11% fair, 60% good, 23% excellent. Fall potatoes 7% poor, 18% fair, 45% good, 30% excellent. Alfalfa 86% 2<sup>nd</sup> cutting, 95% 1998, 90% avg.; 25% 3<sup>rd</sup> cutting, 22% 1998, 20% avg.; 2% very poor, 8% poor, 24% fair, 53% good, 13% excellent. Pasture feed, range in mostly good condition.

**DELAWARE:** Days suitable for fieldwork 5.9. Topsoil 38% very short, 42% short, 20% adequate. Subsoil 43% very short, 50% short, 7% adequate. Field corn 23% very poor, 31% poor, 24% fair, 15% good, 7% excellent; 80% dough, 76% 1998, 72% avg.; 45% dented, 42% 1998, 41% avg.; 23% mature, 18% 1998, 9% avg.; 44% harvested for silage, 21% 1998, 16% avg. Soybeans 10% very poor, 25% poor, 26% fair, 39% good; 67% bloomed, 61% 1998, 71% avg.; 48% setting pods, 44% 1998, 48% avg.; 10% turned, 6% 1998, 2% avg.; 10% shedding leaves, 6% 1998, 2% avg. Sorghum 5% poor, 58% fair, 37% good; 78% headed, 61% 1998, 75% avg.; 18% turned, 14% 1998, 8% avg. Sweet corn 68% harvested, 60% 1998, 77% avg. Snap beans 61% harvested, 61% 1998, 71% avg. Cantaloupes 76% harvested, 75% 1998, 79% avg. Watermelons 69% harvested, 58% 1998, 65% avg. Cucumbers 68% harvested, 73% 1998, 79% avg. Lima beans 42% harvested, 37% 1998, 33% avg. Tomatoes 60% harvested, 60% 1998, 64% avg. Potatoes 72% harvested, 75% 1998, 79% avg. Apples 10% fair, 90% good; 18% harvested, 21% 1998, 24% avg. Peaches 10% fair, 90% good; 72% harvested, 70% 1998, 75% avg. Clover, other hay 87% 3<sup>rd</sup> cutting, 70% 1998, 61% avg.; 30% 4<sup>th</sup> cutting, 24% 1998, 29% avg. Alfalfa hay 94% 3<sup>rd</sup> cutting harvested, 91% 1998, 88% avg.; 18% 4<sup>th</sup> cutting, 23% 1998, 14% avg. Hay supplies 10% very short, 62% short, 28% adequate. Pasture feed 9% very poor, 61% poor, 18% fair, 12% good. Activities: Silage harvesting moving along quickly, vegetable harvesting continues despite market glut, farmers gearing up for grain harvest.

**FLORIDA:** Topsoil moisture throughout State mostly short to adequate. High temperatures continued with rain in many areas. Temperatures were down from last week but averaged high 80's to low 90's degrees F. Nighttime

lows averaged in 70's. Scattered rains from one-half inch to over 3 inches in many areas. Peanut harvesting starting. Tobacco harvest winding down. Tobacco marketing active. Cotton, soybean, sugarcane condition normal. Haying active. Peanut 36% fair, 43% good, 21% excellent. Land preparation, planting continues for fall crops. Activities in major growing areas follow: Quincy--Tomato transplanting finished. Palmetto-Ruskin--Tomatoes mostly good condition as planting increases. Staking active, heavy spraying for disease, insects. Workers making first ties on small amount of acreage. Planting steady for watermelons, cherry, and plum tomatoes, eggplant. Growers getting ready to plant peppers. East Coast--Wet conditions caused delays in field activities. Growers are laying plastic, planting peppers, planting tomatoes when weather permits. Spraying tomatoes, peppers continues to keep disease, insects in check. Southwest--Producers continue laying plastic for tomato transplanting. Dade--Okra harvesting continues with good quality available. Growers continue field preparations for planting tomatoes, snap beans, eggplant, squash. Frequent rains all citrus areas producing abundant new growth. New crop fruit sizing well, some later bloom fruit in heavy rain areas catching up to regular bloom fruit in size. Some testing of grapefruit for early shipments. Caretakers cutting cover crops, fertilizing, spraying, pushing out dead trees, resetting older groves. Pasture feed: fair 40%, good 60%. Condition of cattle fair 15%, good 85%. Most range pastures good condition. Adequate soil moisture. Hot weather good for grass growth at most locations. Central: some locations dry, which lowered pasture condition. Southwest: stock pond levels rose some. Cattle, calves condition mostly good.

**GEORGIA:** Days suitable for fieldwork 6.5. Soil moisture 45% very short, 36% short, 18% adequate, 1% surplus. Corn 94% mature, 94% 1998, 92% avg.; 49% harvested for grain, 48% 1998, 37% avg. Cotton 98% setting bolls, 100% 1998, 100% avg. Hay 18% very poor, 36% poor, 33% fair, 13% good. Peanuts 1% dug, 0% 1998, 1% avg. Sorghum 16% very poor, 26% poor, 29% fair, 28% good, 1% excellent; 11% harvested for grain, 13% 1998, 10% avg. Soybeans 87% blooming, 95% 1998, 93% avg. Tobacco 83% harvested, 67% 1998, 84% avg. Watermelons 98% harvested, 99% 1998, 98% avg. Apples 7% poor, 27% fair, 53% good, 13% excellent; 11% harvested, 12% 1998, 16% avg. Pecans 5% very poor, 13% poor, 32% fair, 42% good, 8% excellent. Hot, dry conditions continued over much of the State. Scattered showers provided short-term relief for the areas that received them. Irrigation continued over many areas of the State, there was concern over water levels of ponds, wells, streams. Soil moisture condition was steady. Corn harvest continued ahead of the 5-year average pace; last week the crop condition decreased slightly. Sorghum condition dropped slightly. Loopers showed up in soybeans, peanuts in isolated areas. Soybean condition improved. Leaf drop occurred ahead of the 1998 pace. Preparation for peanut harvest continued last week. Conditions declined slightly. Foliar cotton spraying occurred last week. Dry weather continued to hurt pastures and hayfields. Cattlemen continued supplemental feeding. Water has become short. Some selling of cattle occurred. Dairy cows were stressed. Pecans were in the kernel filling stage and need rain. Spraying continued last week. Watermelon harvest came to a close. Fall vegetable planting took place last week despite the heat. Other activities included harvesting tobacco and spraying fungicides on peanuts.

**HAWAII:** Variable weather conditions were fair for crops. Hurricane Dora passed safely south of State. Clear to partly cloudy skies throughout week. Weakened trade winds produced humid conditions during midweek. Rainfall light in most areas, irrigation remains heavy. Crops in most fair condition. Most banana fields in good condition. Harvesting very active. Warm weather, adequate showers have benefitted the crop. Papaya orchards in good to fair condition, few in poor condition. Harvesting is active. Head cabbage harvesting active. Fields in fair to good condition. Tomato harvesting expected to increase as new fields mature. Crop conditions were mostly good.

**IDAHO:** Days suitable for fieldwork 6.5. Topsoil 8% very short, 33% short, 58% adequate, and 1% surplus. Rain in northern areas delays harvest. Statewide 2% of potatoes have been harvested. Irrigation supply 65% excellent, 27% good, 7% fair, 1% poor. Alfalfa hay 91% 2<sup>nd</sup> cutting, 90% 1998, 87% avg.; 36% 3<sup>rd</sup> cutting, 26% 1998, 20% avg. Oats 40% harvested for grain, 37% 1998, 40% avg. Mint 69% harvested, 72% 1998, 77% avg. Peaches 23% harvested, 25% 1998, 48% avg. Dry Peas 42% harvested, 76% 1998, 60% avg. Dry beans 3% harvested, 2% 1998, 5% avg. Lentils 34% harvested, 39% 1998, 38% avg. Onions 4% harvested, 7% 1998, 7% avg. Prunes, plums 13% harvested, 6% 1998, 13% avg. Hops 4% harvested, 2% 1998, 2% avg. Sweet corn 37% harvested, 26% 1998, 22% avg. Potatoes with vines dead/kill 6%, 7% 1998, 12% avg. Barley 99% turning color. Spring wheat 99% turning color. Winter wheat 61% harvested, 81% 1998, 71% avg. Activities: Monitoring for disease, preparing for potato harvest, harvesting cereal grains, hay, mint, lentils, dry peas, oats, onions, hops sweet corn, peaches.

**ILLINOIS:** Days suitable for fieldwork 5.8. Topsoil 29% very short, 37% short, 33% adequate, 1% surplus. Below-normal temperatures, precipitation were recorded statewide last week. Lack of rain is most evident in the

southern districts. Rainfall is needed soon to help pod development in soybeans. Corn crop continues to develop well ahead of the 5-year average, with some reports of harvest beginning where fields were hit by high winds. Some corn fields are a total loss, while pick-up reels will be needed in many others for harvest. Other activities last week included attending fairs, scouting fields, baling hay, hauling grain. Alfalfa 62% 3<sup>rd</sup> cut 62%, 57% 1998, 46% avg.

**INDIANA:** Days suitable for fieldwork 6.4. Topsoil 33% very short, 45% short, 22% adequate. Subsoil 35% very short, 50% short, 15% adequate. Very little rain around the State. Corn drying down rapidly. Early corn harvest expected, some areas. Topsoil, subsoil remain very dry. Corn, soybean condition declined. Corn 28% good to excellent. Soybean 27% good to excellent. Pastures, hay crops continue to deteriorate. Range, pasture feed 28% very poor, 35% poor, 32% fair, 5% good. Feeding hay necessary, some areas. Alfalfa 87% 3<sup>rd</sup> cut complete, 63% 1998. Tobacco harvest 25% complete. Activities: Chopping silage, selling corn and soybeans, cleaning grain bins, harvesting tobacco, mowing roads, baling hay, harvesting vegetables, monitoring fields, painting buildings, attending State fair, caring for livestock.

**IOWA:** Days suitable for fieldwork 5.5. Topsoil 8% very short; 14% short, 73% adequate, 5% surplus. Subsoil 4% very short; 19% short, 72% adequate, 5% surplus. Rains fell across most of the State, but continue to miss the northwest and north-central districts. Very dry conditions continue in these two districts. Corn 94% milk stage, 95% 1998, 90% avg., 72% dough stage, 71% 1998, 55% avg., 38% dent stage, 23% 1998, 17% avg. Corn 3% very poor, 6% poor, 20% fair, 44% good, 27% excellent. Soybeans with leaves changing color 3%, 1% 1998, 1% avg.; 3% very poor, 6% poor, 17% fair, 47% good, 27% excellent. Mild temperatures continue to benefit livestock. Some cases of pinkeye continue to be reported. Range, pasture feed 4% very poor, 7% poor, 33% fair, 42% good, 14% excellent. Alfalfa 42% 3<sup>rd</sup> cutting, 32% 1998, 28% avg. Clover hay 86% 2<sup>nd</sup> cutting, 90% 1998, 82% avg. Hay 2% very poor, 5% poor, 29% fair, 45% good, 19% excellent.

**KANSAS:** Days suitable for fieldwork 6.6. Topsoil 13% very short, 43% short, 44% adequate. Subsoil 7% very short, 30% short, 62% adequate, 1% surplus. Continued hot, dry weather stressed crops across much of the State. Dryland crops, particularly in the southern, eastern tiers of the State, are badly in need of rain, cooler temperatures. Corn 9% mature, 12% 1998, 7% avg. Soybeans 93% blooming, 100% 1998, 96% avg. Sorghum 4% mature, 4% 1998, 2% avg. Sunflower 1% very poor, 3% poor, 17% fair, 65% good, 14% excellent; 96% blooming, 97% 1998. Ray flowers dry 31%, 35% 1998. Bracts 12% turning yellow, 10% 1998. Alfalfa 96% 3<sup>rd</sup> cut, 97% 1998, 93% avg.; 32% 4<sup>th</sup> cutting, 33% 1998, 23% avg. Crop insect populations continue to be rated at mostly light to none. Corn borers, grasshoppers, soybean stem borers, webworms, sunflower head moths are the most common insects reported. Last week producers were busy with seedbed preparation for wheat, rye, planting new alfalfa, fertilizing, spraying weeds, cultivating, irrigating, harvesting silage, putting up hay. In a few areas, farmers are harvesting corn, sorghum for grain. Hay, forage supplies, 11% short, 88% adequate, 1% surplus. With the hot, dry weather conditions, pastures are beginning to dry up. In some areas, supplemental feeding has begun. Stocker cattle continue to be moved off grass. Few ranchers have started weaning calves. Despite the dry weather, stock water supplies remain mostly adequate.

**KENTUCKY:** Days suitable for fieldwork 5.9. Topsoil 77% very short, 20% short, 3% adequate. Subsoil 72% very short, 25% short, 3% adequate. Scattered showers were not enough to relieve drought stress. Crops remain in desperate need of moisture. Harvest has begun for some early-planted corn, yields were reported as mostly good to fair with some low test weights. Unless it rains soon, soybeans that are at the critical pod fill stage will be unable to fill their pods, second crop soybeans will produce little to no beans. Burley tobacco cut 43%. Dark tobacco cut 50%. Tobacco 16% very poor, 29% poor, 36% fair, 17% good, 2% excellent. Blank shank continues to be a serious problem statewide. Drought conditions have produced short plants on all but early-planted or irrigated fields. Pasture feed 42% very poor, 34% poor, 18% fair, 6% good. Farmers continue to feed hay due to poor pasture conditions. Unless rain is received soon, fall hay harvest will be minimal. Hay 39% very poor, 35% poor, 20% fair, 6% good.

**LOUISIANA:** Days suitable for fieldwork 6.6. Soil moisture 43% very short, 29% short, 24% adequate, 4% surplus. Corn 2% poor, 26% fair, 62% good, 10% excellent; 81% harvested, 73% 1998, 57% avg. Corn harvest edged closer to completion. Hay 58% final cutting, 54% 1998, 65% avg. Rice 85% ripe, 84% 1998, 71% avg.; harvest was winding down. Sorghum 95% ripe, 75% 1998, 59% avg.; 58% harvested, 31% 1998, 22% avg. Soybeans 100% blooming, 100% 1998, 99% avg.; 33% leaves turning, 28% 1998, 16% avg. Sugarcane 1% poor, 17% fair, 58% good, 24% excellent; 45% planted, 6% 1998, 8% avg. Sweet potatoes 5% poor, 40% fair, 52% good, 3% excellent; 17% harvested, 6% 1998, 10% avg.; harvest was spotty due to the lack of

soil moisture. Livestock 2% very poor, 8% poor, 34% fair, 47% good, 9% excellent. Vegetables 7% very poor, 27% poor, 41% fair, 23% good, 2% excellent.

**MARYLAND:** Days suitable for fieldwork 6.2. Subsoil 60% very short, 30% short, 10% adequate. Topsoil 45% very short, 40% short, 15% adequate. Corn 19% very poor, 26% poor, 40% fair, 15% good; 60% dough, 62% 1998, 61% avg.; 32% dent, 37% 1998, 31% avg.; 17% mature, 18% 1998, 7% avg.; 5% harvested for grain, 3% 1998, 1% avg.; 15% harvested for silage, 21% 1998, 7% avg. Soybeans 13% very poor, 27% poor, 35% fair, 25% good; 90% bloomed, 92% 1998, 86% avg.; 66% setting pods, 73% 1998, 62% avg. Sorghum 7% very poor, 44% poor, 49% fair; 20% turning color, 16% 1998, 6% avg. Tobacco 15% very poor, 24% poor, 33% fair, 28% good; 70% topped, 83% 1998, 80% avg.; 25% harvested, 40% 1998, 38% avg. Snap beans 68% harvested, 76% 1998, 77% avg. Cucumbers 74% harvested, 87% 1998, 83% avg. Potatoes 84% harvested, 100% 1998, 96% avg. Sweet corn 86% harvested, 80% 1998, 76% avg. Tomatoes 80% harvested, 81% 1998, 72% avg. Cantaloupes 81% harvested, 86% 1998, 83% avg. Lima beans 25% harvested, 27% 1998, 19% avg. Watermelons 77% harvested, 78% 1998, 76% avg. Peaches 8% poor, 30% fair, 62% good; 70% harvested, 83% 1998, 74% avg. Apples 1% poor, 22% fair, 77% good; 10% harvested, 13% 1998, 11% avg. Clover, other hays 90% 2<sup>nd</sup> cutting harvested, 92% 1998, 90% avg.; 45% 3<sup>rd</sup> cutting, 53% 1998, 35% avg. Alfalfa 79% 3<sup>rd</sup> cutting harvested, 75% 1998, 75% avg.; 18% 4<sup>th</sup> cutting, 28% 1998, 14% avg. Pasture feed 40% very poor, 28% poor, 25% fair, 7% good. Hay supplies 18% very short, 46% short, 35% adequate, 1% surplus. Activities: Preparing for corn harvest, continued vegetable harvesting, hay becoming scarce.

**MICHIGAN:** Days suitable for fieldwork 6.0. Topsoil 13% very short, 38% short, 49% adequate. Subsoil 16% very short, 36% short, 48% adequate. Hay 2% very poor, 7% poor, 18% fair, 55% good, 18% excellent. Dry beans 1% very poor, 1% poor, 12% fair, 56% good, 30% excellent. Hay 90% 2<sup>nd</sup> cutting, 100% 1998, 89% avg.; 35% 3<sup>rd</sup> cutting, 41% 1998, 23% avg. Corn milk 97%, 94% 1998, 76% avg. Dry beans 99% setting pods, 93% 1998, 85% avg.; 26% turning, 42% 1998, 20% avg. Soybeans 8% turning leaves, 6% 1998, 4% avg. Rainfall is still needed in southern areas as crops are maturing fast. Cooler weather at midweek relieved typical hot weather. Northern portion has everything growing ahead of normal, expecting good yields. Drier conditions this week helped farmers on baling hay as 2<sup>nd</sup> cuttings continued in north, 3<sup>rd</sup> cuttings in south. Corn fields drying down as many stalks have two ears per stalk. Soybeans seem to be flourishing, filling pods nicely. Fields of dry beans, soybeans showing signs of leaves turning color. Sugar beets need more rain as fields are showing signs of stress. Cabbage for fall harvest looked good in spite of dry conditions. Cantaloupe harvest continued with good quality if moisture was adequate. Carrots developing well. Cucumber harvest progressed good quality, yields. Eggplant volume steady. Pepper harvest continued with excellent quality. Pumpkins slightly ahead of normal in development. Snap bean harvest was active with good yields, quality. Zucchini, summer squash harvest continued. Winter squash maturity was ahead of normal. Insect pressure was high on sweet corn. Processing tomato harvest began with average yields initially, good quality. Apple fruit 2.5 in. diameter. Harvest of Jersey mac, Earligold, Mollygold continued. Peach harvest continued. Stanley plum harvest was about to start. Concord grapes coloring. Few Bartlett pears were harvested. Blueberry harvest was winding down; growers harvested Elliott variety.

**MINNESOTA:** Days suitable for fieldwork 4.7. Topsoil 3% very short, 18% short, 61% adequate, 18% surplus. Corn 98% milking, 99% 1998, 90% avg. Winter wheat 88% harvested, 99% 1998, 89% avg. Rye 93% harvested, 99% 1998, 93% avg. Sweet corn 49% harvested, 67% 1998, 43% avg. Pasture feed 3% very poor, 16% poor, 24% fair, 48% good, 9% excellent. Sugar beets 1% very poor, 4% poor, 22% fair, 55% good, 18% excellent. Sunflowers 2% very poor, 14% poor, 40% fair, 42% good, 2% excellent. Dry beans 3% very poor, 12% poor, 38% fair, 40% good, 7% excellent. Dry conditions in the southwest district have expanded into parts of the west-central, south-central districts. However, areas in the northern part of the State are still experiencing too much moisture.

**MISSISSIPPI:** Days suitable for fieldwork 6.8. Soil moisture, 53% very short, 35% short, 12% adequate. Corn 96% mature, 87% 1998, 70% avg.; 48% harvested, 50% 1998, 23% avg.; 65% silage harvested, 82% 1998, 70% avg.; 1% very poor, 7% poor, 25% fair, 47% good, 20% excellent. Cotton 54% open bolls, 50% 1998, 32% avg.; 7% very poor, 10% poor, 32% fair, 42% good, 9% excellent. Rice 95% heading, 92% 1998, 93% avg.; 27% mature, 27% 1998, 30% avg.; 2% harvested, 7% 1998, 4% avg.; 1% very poor, 5% poor, 22% fair, 56% good, 16% excellent. Sorghum 94% turning color, 91% 1998, 86% avg.; 70% mature, 50% 1998, 47% avg.; 35% harvested, 19% 1998, 14% avg.; 35% silage harvested, 53% 1998, 34% avg.; 1% very poor, 6% poor, 28% fair, 47% good, 18% excellent. Soybeans 100% setting pods, 96% 1998, 88% avg.; 58% turning color, 38% 1998, 24% avg.; 34% shedding leaves, 18% 1998, 11% avg.; 8% harvested; 12% very poor, 17% poor, 32% fair, 31% good, 8% excellent. Sweet potatoes 15% harvested, 5% 1998, 9% avg.; 1% very poor, 8% poor, 24% fair, 67% good.

Hay (warm-season) 80% harvested, 80% 1998, 83% avg. Watermelons 92% harvested, 91% 1998, 93% avg. Cattle 2% very poor, 14% poor, 30% fair, 49% good, 5% excellent. Pasture feed 20% very poor, 25% poor, 37% fair, 15% good, 3% excellent. Above-average temperatures, dry conditions prevailed across most of the State. Row crop conditions continue to decline.

**MISSOURI:** Days suitable for fieldwork 6.7. Topsoil 55% very short, 32% short, 13% adequate. Precipitation for week ending August 22, 1999 avg. 0.22 in. Another week of dry weather, moderated by cooler weather, continued to stress crops, reduce soil moisture, shorten livestock water supplies. Corn harvesting began in most parts of the State, with the Bootheel most advanced with 11% harvested. Northwest district, which received rain in the early part of the week, reported over 80% of the soybeans in fair to good condition. Ninety-six percent of all soybeans have bloomed, 74% were setting pods. Soybeans are in a crucial stage in which rain is needed for normal development. Sorghum is well advanced in the Bootheel area, with 66% coloring. With 29% of the cotton crop opening bolls, it continues to be several days ahead of 1998, average. 3<sup>rd</sup> crop alfalfa is 73% cut. Pasture feed continue to decline 31% very poor, 33% poor, 30% fair, 6% good.

**MONTANA:** Days suitable for fieldwork 5.7. Topsoil 24% very short, 44% short, 31% adequate, 1% surplus. Subsoil 28% very short, 45% short, 27% adequate, and 0% surplus. Weather conditions were hot, dry for a majority of the State since only a few locations reported more than a trace of moisture. Sugar beets 22% fair, 53% good, 25% excellent. Winter wheat 97% ripe, 97% 1998, 97% avg.; 85% harvested, 90% 1998, 76% avg. Spring wheat 96% turning, 100% 1998, 98% avg.; 63% ripe, 88% 1998, and 76% avg. Barley 95% turning, 100% 1998, 98% avg.; 57% ripe, 89% 1998, 75% avg. Oats 94% turning, 100% 1998, 97% avg.; 61% ripe 61%, 84% 1998, 75% avg.; 29% harvested, 60% 1998, 41% avg.; 3% very poor, 14% poor, 24% fair, 46% good, 13% excellent. Corn for silage 6% harvested, 1% 1998, 2% avg.; 2% poor, 15% fair, 57% good, 26% excellent. Potatoes 20% fair, 52% good, 28% excellent. Dry beans 9% poor, 22% fair, 52% good, 17% excellent. Alfalfa 60% 2<sup>nd</sup> cutting, 61% 1998, 61% avg. Other hay 91% harvested, 92% 1998, 93% avg. There are reports of small grains being behind schedule, poor condition.

**NEBRASKA:** Days suitable for fieldwork 5.4. Topsoil 5% very short, 22% short, 71% adequate, 2% surplus. Subsoil 3% very short, 23% short, 73% adequate, 1% surplus. Statewide, temperatures averaged near normals. Regional precipitation averaged from 0.14 in. northwest to 1.34 in. southwest. Corn 1% very poor, 4% poor, 20% fair, 58% good, 17% excellent. Irrigated corn 80%, dryland corn 65% in good or excellent; corn 84% dough, 84% 1998, 74% avg.; corn 27% dent, behind 37% 1998, above 25% avg. Soybeans 92% setting pods, 96% 1998, 90% avg.; 2% coloring, 4% 1998, 4% avg.; 2% very poor, 7% poor, 25% fair, 53% good, 13% excellent. Sorghum 88% headed, 96% 1998, 89% avg.; 10% turning color, 18% 1998, 16% avg. Sorghum 3% very poor, 7% poor, 27% fair, 57% good, 6% excellent. Dry beans 1% very poor, 3% poor, 24% fair, 67% good, 5% excellent; 98% setting pods, ahead of 78% 1998, 92% avg. Alfalfa 62% 3<sup>rd</sup> cutting complete, behind 62% 1998, 53% avg.; 1% very poor, 5% poor, 21% fair, 60% good, 13% excellent. Pasture feed, range 2% very poor, 6% poor, 19% fair, 60% good, 13% excellent. Wild hay 4% poor, 17% fair, 62% good, 17% excellent. Cooler evening temperatures, lower humidity have lowered stress on fat cattle, resulting in improved gains. Producer activities; haying, moving grain to market, caring for livestock, preparations for fall seeded wheat.

**NEVADA:** Fires continue to rage through northern areas, with three new fires. As of Friday, August 20th there were eight fires still burning; four of which were contained. Bureau of Land Management reported that there have been 670 wildfires this year in the State. Temperatures varied throughout the State, but were no more than 7 degrees F above or below the normal temperature. Thunder showers continued throughout the State, but brought little precipitation. Trace amounts of precipitation were reported in Reno, Elko, and Las Vegas. Ely was the only station to report significant rainfall, with 0.17 in. The majority of the irrigation water supplies remained adequate. Third cutting of alfalfa continued as well as grain harvest. New alfalfa planting was underway. Harvest of sweet corn was completed; significant bird damage was reported. Cantaloupe harvest was in full swing. Garlic harvest continued. Main farm and ranch activities: Haying, combining grain, irrigating, fall planting of alfalfa, working calves, assessing of fire damage.

**NEW ENGLAND:** Days suitable for fieldwork 5.9. Topsoil 23% very short, 46% short, 31% adequate. Subsoil 32% very short, 36% short, 32% adequate. Pasture feed 24% very poor, 29% poor, 35% fair, 11% good, 1% excellent. Maine potatoes 5% harvested, <5% 1998, <5% avg.; condition good to excellent. Massachusetts potatoes 40% harvested, 40% 1998, 30% avg.; condition good to fair. Rhode Island potatoes 30% harvested, 15% 1998, 15% avg.; condition fair to poor. Oats in Maine 40% harvested, 20% 1998, 25% avg.; condition good to excellent. Barley in Maine 50% harvested, 35% 1998; condition good to excellent. Field corn <5% harvested; condition good to fair. Sweet corn 65% harvested, 60% 1998, 55% avg.; condition

good to fair. Shade Tobacco 85% harvested, 100% 1998, 85% avg., condition good. Broadleaf Tobacco 80% harvested, 80% 1998, 75% avg.; condition good. First cut hay 100% harvested, 99% 1998, 99% avg., condition good to fair. Second cut hay 85% harvested, 70% 1998, 70% avg.; condition good to fair. Third cut hay 25% harvested, 20% 1998, 20% avg.; condition fair to poor. Apples 10% harvested, 10% 1998, 10% avg.; size average to below average, condition good to fair. Peaches 55% harvested, 65% 1998, 55% avg.; size average to below average, condition fair. Pears <5% harvested, 10% 1998, 10% avg.; size below average to average, condition fair to poor. Cranberries size average, condition good to excellent. Highbush blueberries 85% harvested, 85% 1998, 80% avg., size average, condition good to fair. Wild Blueberries 65% harvested, 80% 1998, 75% avg.; size average, condition good to fair. Major farm activities included: Harvesting vegetables, tobacco, oats, barley, and potatoes. Picking fruit including early varieties of apples, peaches and pears. Potato farmers in Maine harvesting some early varieties and starting to apply vine killer on other varieties. Field corn harvest beginning in a few locations. Blueberry harvest continues. Cutting hay where it is available. Spreading manure, mowing weeds and irrigating where possible.

**NEW JERSEY:** Days suitable for fieldwork 5. Temperatures near normal. Extremes 48°; 93°. Rainfall 0.44 in. north, 0.87 in. central, 0.80 in. south. Heaviest 24 hour total was 1.89 inches at Pemberton on the 20<sup>th</sup> to the 21<sup>st</sup>. Estimated soil moisture, in percent of field capacity, this past week averaged 86% north, 79% central, 73% south. Four inch soil temperatures 72 degrees North, 74 degrees central, 76 degrees south. Irrigation water supply improved from very short to short in most areas and even to adequate in some areas. Rainfall arrived too late to help some field corn acreage. Yields are still expected to be well below average, some farmers have reported their corn for grain as a total loss. Harvesting of corn for silage continued, both yields, nutrient content are below normal. Soybeans between fair to poor condition. Farmers report the pods are falling off, there is insect damage. Condition of the second alfalfa cutting is between fair, poor. Some areas did not get a second alfalfa cutting. However, the recent rains have now raised hopes of better yields from the coming third cutting. Second cutting of other hay is occurring, the condition has been rated as poor in most areas. Some areas are not having a second cutting at all. Some improvement of pastures has occurred in some areas of the state because of the rain received. Supplemental feeding of cattle is still occurring extensively. Some farmers are already using their winter feed supplies. Most irrigated vegetable fields are in good, fair condition but heat stress has affected even irrigated fields. Tomato fields are good condition in most areas but total production is expected to be reduced due to blossom end rot, small fruit size. Pepper fields are between good, fair condition. Most snap beans fields have been rated in fair condition. Significant damage to the pumpkin crop is expected since the crop is mostly non-irrigated. Potato sizes have been reported to be somewhat smaller than normal, yields are down. Harvest of tomatoes, squash, sweet corn, peppers, snap beans, cucumbers, melons, eggplant, green beans, potatoes, other minor vegetables continued. The moisture received from the rains has allowed many farmers to finally seed their fall vegetable fields. Harvest of peaches is increasing rapidly with good quality being reported. Apples are also being harvested and the quality has also been rated as good. Water supply for cranberries is tight, there has been some scalding due to the sun.

**NEW MEXICO:** Days suitable for fieldwork 6.4. Thunderstorms favored north, northwest areas during the week, with most of the south, southeast on the dry side. Some clouds, scattered precipitation kept temperatures close to normal over the north, while more abundant sunshine helped produce temperatures above normal in the south. Statewide average was between 2° and 3° above normal. Farmers continued hay, vegetable harvest along with irrigating, spraying, preparing land for fall planting. Haying activities returned to normal with the only rain damage reported in the north central portion of the State. Chile, onion, silage harvest remained active in the southern part of the state while the high plains began to drill wheat. Ranchers continued to report good weight gains for livestock along with fair to good supplies of tank water. Forage production remains above normal in most areas which should provide adequate pasture for fall, winter grazing. Pasture feed, range 1% very poor, 5% poor, 33% fair, 52% good, 9% excellent. Cattle, sheep conditions dropped slightly but continued to report over half in good to excellent condition.

**NEW YORK:** Days suitable for fieldwork 5.9. Soil moisture 29% very short, 53% short, 18% adequate. Pasture feed 13% very poor, 45% poor, 21% fair, 21% good. Alfalfa 57% 3rd cut complete, 34% 1998, 36% avg. Condition of hay crops 23% poor, 45% fair, 32% good. Corn 25% poor, 29% fair, 29% good, 17% excellent. Corn condition varies greatly from area to area. Ear development affected by early maturing crop. Silage chopping began. Oats harvest 93% complete; 82% 1998, 59% avg. Orange County onions harvested with low yields, small sizes. Albany County sweet corn ears not filling out. Clinton, Essex County sweet corn harvest 40 percent finished. Hudson Valley apples 2.1-2.3 in. diameter with fruit due to ripen in next six weeks. Color was excellent. Capital District Paula Red apples picked. Lake Erie grapes received rain, helped size grapes, promote vine health. Livestock

heat stress problems greatly reduced. Most pastures greener than two weeks ago. Generally, driest areas received most rain.

**NORTH CAROLINA:** Days suitable for fieldwork 6.4 compared to 6.3 last week. Previous weekend rainfall gave way to hot weather again. Fields dried out quickly allowing good progress to be made in harvesting tobacco, cutting silage. Relief came later in the week as a cold front brought moisture to a majority of the State. Despite the precipitation, soil moisture levels rebounded only slightly, 35% very short, 36% short, 28% adequate, 1% surplus. Tobacco harvesting, marketing were among the major activities. Other activities included weed control in all crops, baling hay, harvesting peaches, vegetables, crop scouting, tending livestock. Apple harvest is just beginning. Cotton, soybean crops are slightly ahead of their respective five-year averages.

**NORTH DAKOTA:** Days suitable for fieldwork 5. Topsoil 2% very short, 12% short, 74% adequate, 12% surplus. Subsoil 2% very short, 10% short, 75% adequate, 13% surplus. Precipitation was scattered across the state which allowed small grain harvest to make good progress. Sprout damage to swathed wheat was reported in the central and eastern part of the State. Durum wheat 94% milk, 100% 1998, 98% avg.; 65% turning, 95% 1998, 82% avg.; 11% combined, 37% 1998, 19% avg. Canola 89% turning, 96% 1998; 59% swathed, 85% 1998; 12% combined, 38% 1998. Corn for grain 90% milk, 99% 1998, 92% avg.; 28% denting, 46% 1998, 21% avg. Dry edible beans 74% fully podded, 98% 1998, 89% avg.; 39% lower leaves yellowing, 84% 1998, 58% avg.; 17% mature, 55% 1998, 27% avg. Flaxseed 63% turning, 94% 1998, 74% avg.; 6% combined, 27% 1998, 8% avg. Potatoes 14% vines killed, 32% 1998, 17% avg. Soybeans 75% fully podded, 80% 1998, 77% avg.; 12% lower leaves yellowing, 17% 1998, 19% avg. Sunflowers 89% blooming, 98% 1998, 96% avg; 10% ray flowers dried, 35% 1998, 26% avg. Conditions of corn, soybeans, sunflowers increased during the past week. Emerged crop condition: durum 1% very poor, 7% poor, 39% fair, 48% good, 5% excellent; canola 4% poor, 23% fair, 57% good, 16% excellent; corn for grain 1% very poor, 5% poor, 19% fair, 64% good, 11% excellent; corn for silage 4% poor, 20% fair, 65% good, 11% excellent; dry edible beans 8% poor, 24% fair, 51% good, 17% excellent; flaxseed 4% poor, 25% fair, 57% good, 14% excellent; potatoes 5% poor, 12% fair, 49% good, 34% excellent; soybeans 3% very poor, 9% poor, 21% fair, 58% good, 9% excellent; sugar beets 1% very poor, 5% poor, 12% fair, 55% good, 27% excellent; sunflower 1% very poor, 5% poor, 25% fair, 54% good, 15% excellent. Stock water supplies 3% short, 90% adequate, 7% surplus. Hay 7% above normal.

**OHIO:** Days suitable for fieldwork 6.2. Topsoil 40% very short, 38% short, 22% adequate. Soybeans dropping leaves 4%, 0% 1998, avg. Alfalfa hay 3<sup>rd</sup> cutting 75%, 60% 1998, 38% avg. Alfalfa hay 4<sup>th</sup> cutting 10%, 8% 1998. Other hay 2<sup>nd</sup> cutting 91%, 89% 1998, 84% avg. Other hay 3<sup>rd</sup> cutting 38%, 26% 1998, 15% avg. Corn 87% dough, 73% 1998, 66% avg.; 45% dented, 19% 1998, 14% avg.; 3% mature, 0% 1998, avg. Corn 8% harvested for silage, 1% 1998, 1% avg. Summer apples 86% harvested, 79% 1998, 46% avg. Peaches 77% harvested, 79% 1998. Tobacco 61% topped, 53% 1998. Tobacco 17% harvested, 11% 1998. Processing tomatoes 21% harvested, 13% 1998, 10% avg. Potatoes 36% harvested, 50% 1998, 29% avg. Cucumbers 70% harvested. Pasture feed 30% very poor, 28% poor, 27% fair, 13% good, 2% excellent. Corn 9% very poor, 18% poor, 35% fair, 32% good, 6% excellent. Soybeans 8% very poor, 15% poor, 35% fair, 35% good, 7% excellent. Activities for the week include making hay; mowing, seeding CRP; chopping wheat stubble; picking tomatoes, digging potatoes; chopping silage; plowing wheat ground; applying minerals; seeding filter strips; hauling grain; installing tile; leveling land; painting, cleaning grain bins; hauling manure; pulling weeds in soybeans; scouting for insects, disease; preparing for harvest; selling livestock; spraying fence rows; spraying, topping, cutting tobacco; hauling water; irrigating specialty crops; attending fairs. Reported weed pressures include yellow foxtail, pigweed, velvetleaf, lambs quarters, Canadian thistle, giant ragweed, poison ivy, morning glory, sourdock, quack grass, Johnson grass, mare's tail, ironweed, wild carrot, smartweed. Reported insects include spider mites, nematodes on soybeans; leafhoppers in alfalfa; rootworms, earworms in corn; beetles in soybeans, corn. Reported diseases include sudden death syndrome, white mold, root rot in soybeans; gray leaf spot on corn, fungus on seed corn, blossom end rot, blight on tomatoes, soft rot on cabbage, scab on apples, mildew on vegetables. Fruit, vegetable conditions are fair to poor throughout the state. In Medina county, sweet corn, tomato, apple yields are good. A Wayne county reporter indicated that pumpkin, squash production are down five to ten percent. In Coshocton county, one reporter mentioned that soybean pods are not filling due to a lack of moisture. Pasture, grass conditions are fair to poor throughout the state. Spotty rains have provided some relief to dry, dormant grass, but growth is slow, pastures are still short, weedy. Pastures in the southern half of the state are in poor condition. One Licking county reporter stated that his pasture is completely gone. Cooler weather over the past two weeks has improved livestock conditions. Livestock in the northern half of the state are mostly reported in good condition. Milk production was reported up in Columbiana, Wayne counties. Reporters in several areas are still feeding hay, hauling water. Producers in southern parts of the state reported that livestock are heat stressed, hungry; herds continue to be liquidated.

**OKLAHOMA:** Days suitable for fieldwork 6.7. Subsoil 16% very short, 38% short, 43% adequate, 3% surplus. Topsoil 32% very short, 44% short, 24% adequate. Hot temperatures, lack of rainfall add stress to crops, south. Topsoil, subsoil moisture lowest since September, 1998. Wheat 40% seedbed prepared, 29% 1998, 42% avg. Oats 30% seedbed prepared, 23% 1998, 21% avg. Corn 2% very poor, 1% poor, 4% fair, 92% good, 1% excellent; 99% milk to soft, 100% 1998, 98% avg.; 10% mature, 23% 1998, 20% avg.; 3% harvested, 7% 1998, 4% avg. Sorghum 3% mature, 4% 1998, 7%, avg. Soybeans 2% very poor, 9% poor, 39% fair, 49% good, 1% excellent; 83% flowering, 92% 1998, 91% avg.; 68% setting pods, 71% 1998, 72% avg.; 7% mature, 6% 1998, 10% avg. Peanuts 91% setting pods, 95% 1998, 92% avg. Cotton 98% setting bolls, 97% 1998, 93% avg.; Watermelons 81% harvested, 89% 1998, 69% avg. Alfalfa hay 2% very poor, 8% poor, 37% fair, 49% good, 4% excellent; 95% 3<sup>rd</sup> cutting, 83% 1998, 90% avg.; 33% 4<sup>th</sup> cutting, 22% 1998, 30% avg.; Other hay 44% 2<sup>nd</sup> cutting, 7% 1998, 52% avg. Livestock 1% poor, 17% fair, 74% good, 8% excellent. Feeder steer prices 50 cents to \$1.00 per cwt. above last week.

**OREGON:** Days suitable for fieldwork 6.8. Topsoil 30% very short, 57% short, 13% adequate. Subsoil 30% very short, 52% short, 18% adequate. Barley 52% harvested, 69% 1998, 61% average. Spring wheat 77% harvested, 67% 1998. Winter wheat 89% harvested, 87% 1998, 89% avg. Range, pasture feed 3% very poor, 26% poor, 48% fair, 20% good, 3% excellent. Activities: East side grain & grass seed harvest continued. Grass seed yields look good. Mint harvest underway, most areas completed second cutting of alfalfa. Klamath Basin sugar beets fair to good. Westside grain & grass seed harvest almost finished or in advanced stages & second & third hay cuttings underway. Cloudy weather slowed combining. Sugar beet seed harvest also underway. Red clover good, third crop irrigated grass clover being cut. Nurseries & greenhouses doing summer maintenance. Easter lily transplanting underway on south coast. Insect spraying continued on Christmas trees. Christmas tree shearing continued. Fall mums in retail stores. In eastern areas potatoes reported full bloom & Klamath Basin mostly turned. Sweet corn being harvested in Northeast. Willamette Valley vegetable harvest in high gear as sweet corn, tomatoes, green beans, broccoli, cucumbers & melon harvest began. Truck gardens doing well, brisk sales of vegetables at road side stands. Potato vines dying & onions sizing. Willamette Valley potatoes being dug & hauled. Willamette Valley blackberry harvest in full swing, blueberry & peach harvest continued, & pear harvest started. Hazelnut orchards being readied for harvest. Rogue River Valley Red Clapp & Bartlett pear harvest underway & apple harvest started. On the south coast blueberry harvest continued & some cranberry growers hand weeding. Hood River Valley Red Clapp pear & Gravenstein apples harvest began in lower valley. Ranges & pastures continued to dry up. The best rangeland conditions at high elevations in Southeast. Only dry feed left in most Willamette Valley pastures. Livestock condition mostly good to excellent. Some supplemental hay feeding continued in western counties.

**PENNSYLVANIA:** Days suitable for fieldwork 6.0. Soil moisture 46% very short, 45% short, 9% adequate. Corn 98% silked complete, 96% 1998, 95% avg.; 60% dough complete, 67% 1998, 59% avg.; 25% dent, 13% 1998, 13% avg. Ensilage corn 18% harvested complete, 2% 1998, 3% avg. Soybean 26% very poor, 34% poor, 30% fair, 9% good, 1% excellent. Oats 91% harvested, 84% 1998, 80% avg. Tobacco 5% harvest complete, 46% 1998, 26% avg. Potato 22% harvest complete, 10% 1998, 17% avg. Alfalfa 95% 2<sup>nd</sup> cutting complete, 98% 1998, 91% avg. Alfalfa 61% 3<sup>rd</sup> cutting complete, 59% 1998, 51% avg. Alfalfa 20% 4<sup>th</sup> cutting complete, 19% 1998, 11% avg. Timothy clover 58% 2<sup>nd</sup> cutting complete, 72% 1998, 66% avg. Quality of hay made 7% very poor, 13% poor, 34% fair, 31% good, 15% excellent. Apple 21% harvest complete, 27% 1998, 19% avg. Apple 3% very poor, 8% poor, 26% fair, 30% good, 33% excellent. Peach 63% harvest complete, 83% 1998, 60% avg. Grape 5% harvest complete, 0% 1998, 6% avg. Fall plowing 15% complete, 14% 1998, 15% avg. Activities include: Harvesting oats, fruits, vegetables, potatoes, corn silage, tobacco; machinery maintenance; filling silos; hauling manure; spreading manure and lime; caring for livestock; cutting hay; attending county fairs; irrigating, hauling water.

**SOUTH CAROLINA:** Days suitable for fieldwork 6.1. Soil 33% very short, 54% short, 13% adequate. Apples 10% harvested, 16% 1998, 14% avg. Cantaloupes 100% harvested, 100% 1998, 97% avg. Corn 39% harvested, 51% 1998, 34% avg.; 9% very poor, 25% poor, 39% fair, 23% good, 4% excellent. Grapes 20% poor, 60% fair, 20% good. Hay 18% very poor, 26% poor, 40% fair, 15% good, 1% excellent. Peaches 95% harvested, 96% 1998, 96% avg. Sorghum 15% harvested, 24% 1998; 19% avg.; 15% very poor, 45% poor, 37% fair, 3% good. Sweet potatoes 3% harvested, 4% avg.; 6% poor, 66% fair, 28% good.

**SOUTH DAKOTA:** Days suitable for fieldwork 6.4. Topsoil 11% very short, 44% short, 43% adequate, 2% surplus. Subsoil 3% very short, 36% short, 59% adequate, 2% surplus. Progress of row crops, particularly soybean fill, is being hampered by low soil moisture. Alfalfa 9% excellent, 54% good, 34% fair, 3% poor. Sunflower 19% excellent, 56% good, 22% fair, 3% poor.

Flaxseed 21% excellent, 62% good, 17% fair. Barley 99% ripe, 100% 1998, 98% avg. Oats 99% ripe, 100% 1998, 98% avg. Spring wheat 99% ripe, 100% 1998, 97% avg. Flaxseed 91% ripe, 95% 1998, 62% avg. Sunflower 90% blooming, 90% 1998, 92% avg. Sunflower ray flowers dry 34%, 37% 1998, 35% avg. Sunflower bracts yellow 24%, 35% 1998, 21% avg. Corn silked 99%, 100% 1998, 96% avg. Alfalfa 88% 2<sup>nd</sup> cutting, 90% 1998, 83% avg.; 47% 3<sup>rd</sup> cutting, 34% 1998. Other hay 89% harvested, 87% 1998, 86% avg. Cattle 24% excellent, 64% good, 11% fair, 1% poor. Sheep 30% excellent, 55% good, 13% fair, 2% poor. Stock water 8% surplus, 80% adequate, 11% short, 1% very short.

**TENNESSEE:** Days suitable for fieldwork 7.0. Topsoil 47% very short, 39% short, 14% adequate. Subsoil 41% very short, 43% short, 16% adequate. Corn 95% dough, 95% 1998, 94% avg.; 88% dent, 78% 1998, 73% avg.; 36% mature, 24% 1998, 25% avg.; 8% harvested for grain, 3% 1998, 1% avg.; 61% silage harvested, 37% 1998, 34% avg.; 8% very poor, 23% poor, 37% fair, 30% good, 2% excellent. Tobacco 89% topped, 78% 1998, 78% avg.; 9% very poor, 19% poor, 38% fair, 29% good, 5% excellent. Burley 39% harvested, 23% 1998, 25% avg. Dark air-cured 46% harvested, 28% 1998, 31% avg. Dark fire-cured 45% harvested, 28% 1998, 29% avg. Pasture feed 24% very poor, 37% poor, 28% fair, 11% good. As of Sunday, 8% of the corn for grain had been harvested, nearly a week ahead of the five-year average. The early harvest is a direct result of the recent hot, dry conditions which led to the rapid drying down of the crop. Producers report early planted corn yields look fairly good because this corn was made before the recent dry spell set in. Late planted corn on the other hand has suffered recently due to the extreme conditions. Last week remained dry with daily temperatures well above normal during the first half of the week. Rainfall was again very scarce with much of the State receiving no moisture. A few areas did receive some rain from scattered thunderstorms which also caused some hail and wind damage. Crops throughout the State continue to suffer from the drought conditions. Nearly half of the State's soybean crop was rated in poor to very poor condition as of week's end. Soybean plants are struggling to set and fill pods due to the lack of moisture. Sixty-one percent of pasture land was rated in poor to very poor condition and many producers are being forced to feed hay and deliver water to their animals.

**TEXAS:** Conditions hot, dry over state last week with only widely scattered showers reported in Plains, North and East. Fall land preparation slowed due to lack of moisture. Hot temperatures (many days over 100 degrees) have caused range and pasture to decline in many areas. Grain storage problems have occurred due to good yields. Haying operations continued, however yields have diminished due to hot, dry weather. Livestock conditions remain fair to good across the State. Heavy rains from Hurricane Bret soaked lower valley as week ended.

**Crops:** Small Grains, first fields of wheat were seeded in scattered areas of Plains where moisture was available. Corn, The Plains crop continued to mature and harvest begin. Silage harvest was in progress. Harvest increased in the Black lands and Central Texas as well as in other areas. Yields have been good. Markets however were very weak. Harvest was winding down along the Upper Coast and was mostly complete in the Coastal Bend and Rio Grande Valley. Statewide corn condition was rated at 87% of normal compared with 62% 1998; 57% mature, 68% 1998, 59% avg.; 46% harvested, 52% 1998, 46% avg. Cotton: Good growth, development continued in the Plains, however hot temperatures caused some boll drop, especially in dry land areas. Irrigation remained active where possible. Dry land fields need more rain. Bolls continued to open in Black lands and Central. Harvest continued in coastal Bend, Upper Coast as Hurricane Bret approached, with good yields reported. Harvest also active in Rio Grande Valley. Statewide cotton 67% of normal compared, 44% 1998; 7% harvested 15% 1998, 11% avg. Peanuts: Fields continued to look good in the Plains, North Central and irrigation was very active. Dryland fields need more rain. Some diseases reported. Rice: Harvest continued along the Upper Coast with good yields and excellent quality. Statewide rice 95% of normal compared to 78% 1998. Sorghum: Fields matured rapidly in the Plains under hot conditions and harvest on early fields should begin soon. Dryland fields were beginning to stress in many areas. Harvest was virtually complete in the Black lands and Central areas. Lack of storage is still a problem. Statewide sorghum condition was rated at 73% of normal compared with 46% 1998; 54% mature, 54% 1998, 60% avg.; 50% harvested, 51% 1998, 53% avg. Soybeans: Progress, development was good in the plains, however dryland fields need rain. Irrigation remained active. Harvest in the Black lands continued with above average yields. Harvest of early varieties was winding down along the Upper Coast. 37% harvested, 62% 1998, 25% avg.

**Commercial Vegetables:** Rio Grande Valley, land preparation continued. San Antonio-Winter Garden, some planting of fall vegetables continued. East Texas, sweet potato, watermelon harvest continued, limited supplies of Okra, peas, other vegetables was available but suffered from lack of rain. High Plains, onion, potato harvest winding down many fields. Trans Pecos, a few fields cantaloups remained for harvest. Tomatoes will be ready soon. Peaches: Production continued to decline as harvest in Hill Country winding ends. Other peaches in East Texas were fair to good. Pecans: Hot, dry conditions continued take toll on a very good crop across state. Nut drop continued in many locations over the past few weeks. Shuck worms, weevils

increased in some areas. Spraying occurred where numbers high. Rainfall is needed to maintain the current expectations.

**Range and Livestock:** Hay production slowed due recent hot, dry conditions many areas. Supplies good across state however. Because slower grass growth, some producers have begun to supplement. Extremely hot temperatures continued to cause problems in poultry operations.

**UTAH:** Days suitable for fieldwork 6. Topsoil 12% very short, 21% short, 60% adequate, 7% surplus. Subsoil 11% very short, 22% short, 67% adequate. Pasture feed, range 2% very poor, 10% poor, 34% fair, 50% good, 4% excellent. Corn height 83 in., 79 in., 1998, 75 in., avg.; 89% silked, 93% 1998, 86% avg.; 19% dough stage, 32% 1998, 15% avg. Winter wheat 80% harvested, 91% 1998, 90% avg. Spring wheat 75% harvested, 85% 1998, 82% avg. Barley 79% harvested (grain), 80% 1998, 80% avg. Alfalfa hay 94% 2nd cutting, 96% 1998, 95% avg.; 22% 3rd cutting, 39% 1998, 32% avg. Other hay 98% 1st cutting, 91% 1998, 92% avg. Oats 91% harvested for hay or silage, 93% 1998, 94% avg.; 56% harvested for grain, 68% 1998, 60% avg. Peaches 30% picked, 26% 1998, 42% avg. Irrigation water supply 9% very short, 16% short, 73% adequate 2% surplus. Stock water supplies 2% very short, 21% short, 75% adequate, 2% surplus. Major activities included irrigating, harvesting small grains, hay, preparing land for fall planting.

**VIRGINIA:** Days suitable for fieldwork 6.1. Topsoil 37% very short, 32% short, 31% adequate. Subsoil 47% very short, 29% short, 24% adequate. Pasture feed 37% very poor, 25% poor, 26% fair, 11% good, 1% excellent. Livestock 1% very poor, 12% poor, 36% fair, 46% good, 5% excellent. Hay, other 41% very poor, 33% poor, 19% fair, 7% good. Hay, alfalfa 12% very poor, 26% poor, 44% fair, 15% good, 3% excellent. Corn for grain 75% dough, 64% 1998, 66% avg.; 50% dented, 41% 1998, 41% avg.; 20% mature, 22% 1998, 20% avg.; 15% very poor, 36% poor, 22% fair, 17% good, 10% excellent. Corn for Silage 17% harvested, 13% 1998, 9% avg. Soybeans 70% blooming, 81% 1998, 78% avg.; 45% setting pods, 57% 1998, 53% avg.; 8% very poor, 19% poor, 32% fair, 30% good, 11% excellent. Tobacco, flue cured 30% harvested, 24% 1998, 31% avg.; 1% poor, 30% fair, 50% good, 19% excellent. Tobacco, burley 15% harvested, 4% 1998, 6% avg.; 2% very poor, 2% poor, 22% fair, 48% good, 26% excellent. Tobacco, Dark Fire Cured 35% harvested, 27% 1998, 30% avg.; 10% poor, 33% fair, 41% good, 16% excellent. Tobacco, Sun Cured 10% harvested, 5% 1998, 21% avg.; 10% very poor, 30% poor, 30% fair, 30% good. Peanuts 5% fair, 44% good, 51% excellent. Cotton 100% setting bolls, 100% 1998, 100% avg.; 5% bolls opening, 11% 1998, 19% avg.; 6% fair, 38% good, 56% excellent. Summer potatoes 100% harvested, 100% 1998, 100% avg. Apples, Summer 85% harvested, 90% 1998, 68% avg. Apples, All 9% very poor, 21% poor, 34% fair, 34% good, 2% excellent. Peaches 67% harvested, 73% 1998, 71% avg. Moisture supplies across the Commonwealth improved somewhat as scattered showers and thunderstorms occurred during the past week. The scattered rainfall was not significant in most areas but helped to improve crop conditions. This years corn crop is progressing slightly ahead of schedule. A few producers have already begun to harvest their corn for silage as the stalks begin to dry down. Soybean progress remains slightly behind schedule. Late blooms are still developing and producers are hopeful that the plants will continue to set pods. Tobacco harvest is currently underway. Flue producers are progressing on schedule while growers of other types of tobacco are slightly ahead of normal. The cotton and peanut crops remain in mostly good to excellent condition and are progressing on or near normal. Surface water sources and wells remain drastically depleted as a result of the extended hot, dry conditions that have plagued Virginia since early to mid July. Livestock producers continue to provide supplemental water and feed to their herds. Some producers have been and continue to reduce livestock herds

**WASHINGTON:** Days suitable for fieldwork 6.9. Topsoil 7% very short, 38% short, 55% adequate. Subsoil 20% very short, 50% short, 30% adequate. Harvest was in full swing for winter wheat, spring wheat, barley by the weekend. Yields for the cereal grains were all being reported close to historical averages with good quality. Eastern area growers were happy to report less sprout problems in the winter wheat than experienced in the past due to more favorable weather conditions. Winter wheat 66% harvested, 91% 1998, 83% avg. Winter wheat dryland 3% very poor, 13% poor, 47% fair, 33% good, 4% excellent; irrigated 100% good. Spring wheat dryland 16% very poor, 27% poor, 46% fair, 11% good; irrigated 100% good; 35% harvested, 77% 1998, 69% avg. Barley dryland 8% very poor, 27% poor, 51% fair, 14% good; irrigated, 100% good; 28% harvested, 78% 1998, 69% avg. Potatoes 21% harvested, 17% 1998, 17% avg. Potatoes 3% fair, 63% good, 34% excellent. Hay, other roughage supplies 4% short, 78% adequate, 18% surplus. Range, pasture feed 12% very poor, 33% poor, 37% fair, 13% good, 5% excellent. Warm weather helped improve pasture conditions. Third cutting of alfalfa continued full swing. Grass silage was still being harvested. Picking continued for peaches, nectarines, some early apples. Blueberry growers were in the midst of harvest as raspberry harvest was winding down. Some softening was reported in the blueberries due to the rain received last week. Grapes were beginning to change color although it was later than normal. Sweet corn was being harvested across the State. Carrots, onions, artichokes, other vegetables were being harvested as well.

Dry pea, lentil harvest continued, yield reports were average. Christmas tree growers were already taking orders from wholesale buyers. Radish seed, potatoes were being harvested.

**WEST VIRGINIA:** Days suitable for fieldwork 6.1. Topsoil 47% very short, 46% short, 7% adequate. Crop, livestock conditions were aided by scattered rainfall over the State. However, drought conditions continue to plague producers throughout the State. Hay 37% very poor, 48% poor, 15% fair; Hay 2<sup>nd</sup> cut 60%, 67% 1998, 68% avg.; 3<sup>rd</sup> cut 13%, 17% 1998, 27% avg. Corn 29% very poor, 45% poor, 26% fair; 94% silked, 84% 1998, 91% avg.; Corn 70% doughing, 45% 1998, 49% avg.; 16% dent, 13% 1998. Oats 80% harvested, 95% 1998, 88% avg. Soybeans 17% very poor, 42% poor, 36% fair, 5% good; 95% bloomed, 71% 1998, 97% avg.; 73% setting pods, 45% 1998, 81% avg. Tobacco 31% very poor, 27% poor, 30% fair, 11% good, 1% excellent; 33% topped, 44% 1998, 81% avg. Apples 15% very poor, 22% poor, 52% fair, 11% good. Peaches 16% very poor, 25% poor, 51% fair, 8% good. Cattle 3% very poor, 26% poor, 50% fair, 21% good. Sheep 1% very poor, 32% poor, 57% fair, 10% good.

**WISCONSIN:** Days suitable for fieldwork 4.8. Soil moisture 10% short, 76% adequate, 14% surplus. With showers in the middle, latter part of the week, many farmers continued to have problems harvesting dry hay. Frequent rains also encouraged strong regrowth of 3rd and 4th crop hay. This created another problem for farmers: What to do with all of the hay? Some farmers chopped their hay back onto the field last week due to a lack of storage and/or rain damage. Between the showers there was nice sunshine which allowed for some harvest of hay. Third crop hay harvested 49% 1999, 55% 1998, 26% avg. Cooler weather and more than ample rainfall throughout much of the State has helped the corn, soybean crops to grow, mature well. Soybean 1% very poor, 2% poor, 8% fair, 54% good, 35% excellent; 89% setting pods, 87% 1998; 4% leaves turned, 7% 1998, 2% avg. One reporter in Grant County noted that the soybeans are the tallest he has ever seen. The excess height has created a lodging problem, as the plants were unable to hold up the weight of an excellent crop. In the southeastern part of the State, a shortage of moisture threatens to cut yields on both corn, soybeans by 60% if a substantial rainfall is not received soon. Harvest of oats continued last week between the showers. Harvesting the straw remained a problem as a large amount of weeds, showers have kept it from drying. Early apples and pears were being picked. Vegetable crops and the potato harvest continued with indications of good yields. The tobacco harvest moved into full swing. Some fall tillage began on harvested fields. Pasture feed 2% poor, 14% fair, 64% good, 20% excellent.

**WYOMING:** Days suitable for fieldwork 6.3. Topsoil 6% very short, 53% short, 41% adequate. Winter wheat 97% harvested, 96% 1998, 96% avg. Spring wheat 8% fair, 92% good.; 75% mature, 91% 1998, 82% avg.; 60% harvested, 54% 1998, 45% avg. Barley 3% fair, 97% good; 83% mature, 89% 1998, 87% avg.; 69% harvested, 59% 1998, 60% avg. Oats 6% fair, 91% good, 3% excellent; 68% mature, 86% 1998, 78% avg.; 33% harvested, 50% 1998, 42% avg. Corn 1% fair, 95% good, 4% excellent; 94% silked, 99% 1998, 95% avg.; milk 84%, 88% 1998, 81% avg.; dough 42%, 50% 1998, 52% avg. Dry bean 3% fair, 95% good, 2% excellent; 100% setting pods, 93% 1998, 96% avg.; 64% leaves turning, 22% 1998, 42% avg. Sugar beet 4% fair, 87% good, 9% excellent. Alfalfa 58% 2nd cutting, 59% 1998, 61% avg. Other hay 82% cut, 86% 1998, 85% avg. Range, pasture feed 1% poor, 23% fair, 66% good, 10% excellent. Irrigation water supplies 12% short, 86% adequate, 2% surplus. Temperatures remained warm with little precipitation over the State.

# International Weather and Crop Summary

August 22 - 28, 1999

## HIGHLIGHTS

**EUROPE:** Dry weather continued throughout much of southern Europe, stressing non-irrigated summer crops. In northern and central Europe, midweek showers briefly delayed winter and spring grain harvesting, but benefited filling summer crops.

**FSU-WESTERN:** Light showers eased prolonged dryness in eastern Ukraine and southern Russia but arrived too late to significantly improve prospects for corn and sunflowers.

**FSU-NEW LANDS:** Unseasonably warm, dry weather helped spring grain maturation and harvesting in Kazakhstan and Western Siberia, Russia.

**EASTERN ASIA:** Scattered light rain brought little or no drought relief to the North China Plain, and Typhoon Sam brought prolonged heavy rain to extreme southern China.

**SOUTHEAST ASIA:** Showers returned to Thailand and Vietnam, boosting moisture supplies for rice.

**SOUTH ASIA:** Drought intensified over important cotton and groundnut areas of western India.

**AUSTRALIA:** Scattered showers maintained generally favorable conditions for winter grain tillering.

**CANADA:** Weather conditions across the Prairies remained ideal for dry down and harvesting of spring grains and oilseeds.

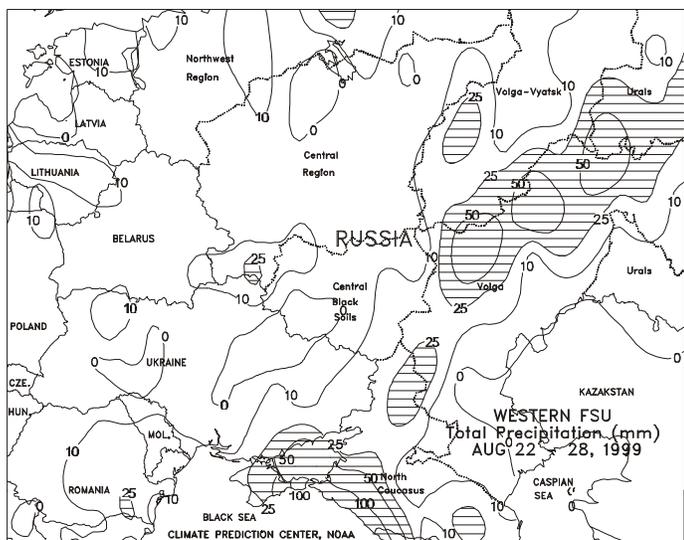
**MEXICO:** Remnants of Hurricane Bret brought variable showers to northern Mexico, while seasonable showers continued across the Southern Plateau.

**SOUTH AMERICA:** Widespread rain benefited germinating winter wheat in central Argentina.



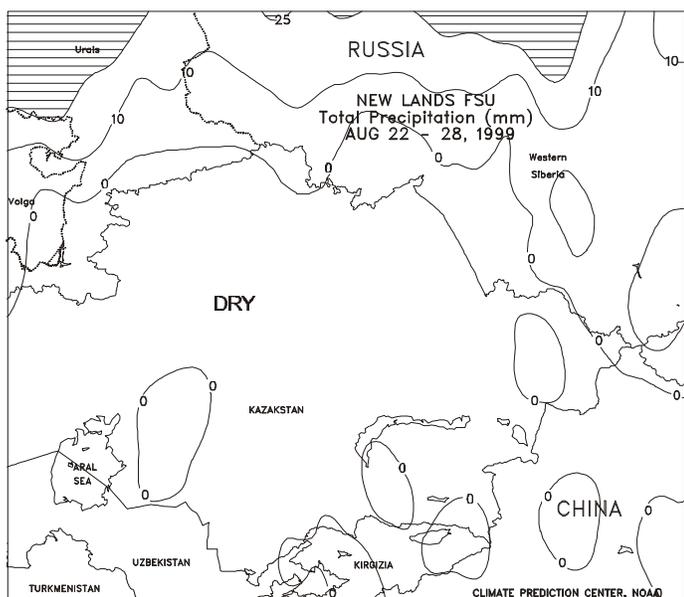
## EUROPE

In England, periods of rain (10-30 mm, with higher amounts along the southwest coast) during midweek briefly interrupted winter wheat harvesting, but favored filling sugarbeets. Drier weather filtered into England late in the week allowing harvesting to resume. Similarly, midweek showers (5-20 mm, with isolated higher amounts) temporarily delayed winter and spring grain harvesting throughout France, the Benelux countries, Germany, and southern Scandinavia. Mainly dry weather promoted harvesting the remainder of the week. Farther east, light showers (2-15 mm) benefited immature summer crops in Poland. Late-week showers (10-25 mm or more) developed over the Czech Republic and Austria, but dry weather prevailed in Slovakia and Hungary. Soil moisture reserves remained adequate in those areas for developing summer crops because of above-normal rainfall during recent months. Farther south, early-week showers (10-40 mm, with locally higher amounts) benefited summer crops in major crop-producing areas of southern Romania and northern Bulgaria. Elsewhere in southern Europe, seasonably dry weather dominated from the Iberian peninsula eastward through central and southern Italy, the Balkans, and Greece. Combined with the dryness, temperatures 2 to 5 degrees C above normal in Spain and Portugal stressed non-irrigated summer crops. Similarly, above-normal temperatures increased crop moisture requirements for developing summer crops in France. In contrast, temperatures 1 to 3 degrees C below normal slowed crop development from Poland southward through Romania.



**FSU-WESTERN**

In Russia, winter and spring grain harvesting was well underway in the north, and was virtually completed in southern areas. Furthermore, winter grain planting was likely underway in northern Russia, where the optimum time for planting crops is late August. A drying trend spread across northern Russia during the week, improving conditions for fieldwork, following several weeks of wet weather. Precipitation amounts ranged from 1 to 10 mm in the Central Region and the Central Black Soils Region, and 15 to 40 mm in the Volga Vyatsk and upper Volga Valley. Farther south, light to locally moderate showers (10-25mm, with local amounts in excess of 30 mm) helped to ease prolonged dryness in eastern Ukraine and southern Russia (North Caucasus, lower Volga Valley, and the southern portion of the Central Black Soils Region). Although the precipitation in these areas arrived too late to significantly improve prospects for corn and sunflowers, it boosted topsoil moisture for upcoming winter wheat planting. Elsewhere, light, scattered showers (less than 10 mm) in Belarus and the Baltics caused only brief delays in harvest activities. Weekly temperatures averaged 1 to 2 degrees C below normal in most of Russia, Ukraine, Belarus, and the Baltics.



**FSU-NEWLANDS**

Unseasonably warm, dry weather favored spring grain maturation and harvesting in Kazakhstan and Western Siberia, Russia. Weekly temperatures averaged 3 to 7 degrees C above normal in most areas, with highest weekly temperatures ranging from 32 to 40 degrees C. In contrast, wet, cool weather (17-44 mm) in the northern Urals favored immature crops. In Russia, reports as of August 21 indicated that spring grains and pulses, excluding corn, were about 35 percent harvested, similar to last year's pace. In cotton-producing areas of Central Asia, the cotton harvest was just beginning in southernmost areas. Hot, dry weather favored boll maturation and harvesting.

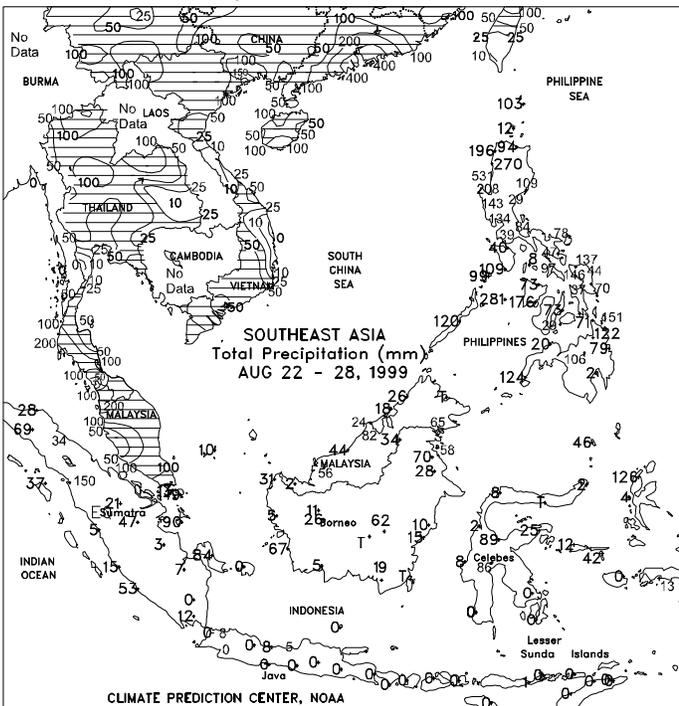
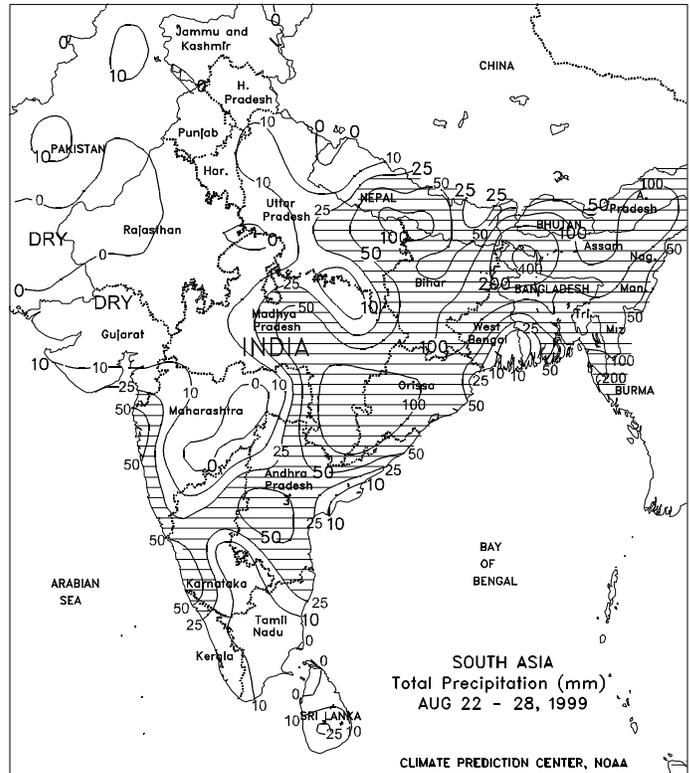


**EASTERN ASIA**

Scattered, light rain (less than 10 mm) brought little or no drought relief to the North China Plain, lowering crop yield prospects for rainfed corn and soybeans. Heavier rain (25-70 mm) fell across extreme southern Henan and central Anhui and Jiangsu. In Manchuria, widespread rain (12-50 mm) maintained soil moisture for filling soybeans, but slowed spring wheat harvesting and possibly reduced wheat quality. Temperatures averaged near to slightly above normal across the North China Plain and Manchuria. Widespread showers (35-100 mm) continued to cover most of the Yangtze Valley and southern China, maintaining adequate moisture supplies for single-crop and late double-crop rice. Extremely heavy rain (150-223 mm) continued across southern Anhui, exacerbating flooding. Typhoon Sam hit Guangdong on August 22, with sustained winds of 65 to 75 knots (75-86 mph). Once it made landfall, the storm slowly dissipated over the next few days, producing prolonged heavy rains (100-500 mm) near Hong Kong. Temperatures averaged 2 to 4 degrees C below normal across central and southern China. Moderate to heavy showers (40-100 mm) fell across most of South Korea and Japan, maintaining moisture supplies for rice, but reducing sunny weather for filling rice. The heaviest rain (100-125 mm) fell across southern South Korea, likely causing local flooding. Mostly dry weather (less than 10 mm) prevailed across North Korea, where rainfall has averaged about 60 percent of normal for the past 4 weeks. Temperatures averaged 1 to 2 degrees C above normal across Japan and near normal to slightly below normal across the Korean Peninsula.

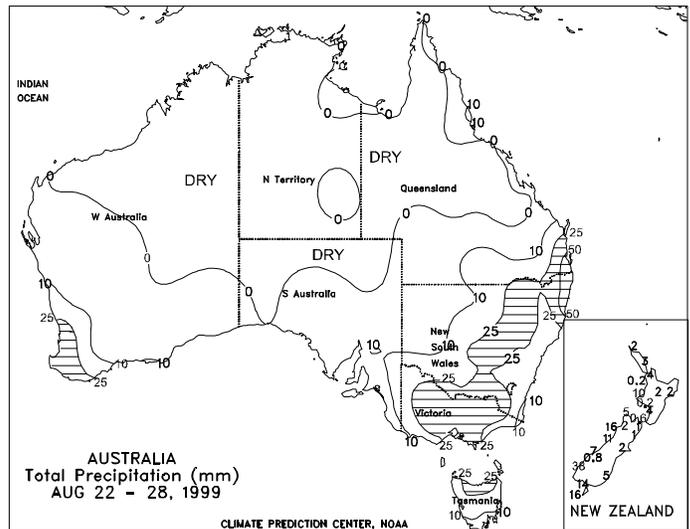
**SOUTH ASIA**

The southwest monsoon continued to be unusually weak across Pakistan and northwestern India. As a result, unseasonable warmth and dryness worsened drought conditions over important oilseed, coarse grain, and cotton areas of western India. The dryness covered major growing areas from Pakistan and north-central India to Maharashtra, including soybean areas of western Madhya Pradesh. In addition, highs in the lower to middle 30's degrees C intensified crop stress and enhanced evaporative losses. Gujarat, a primary groundnut and cotton producer, has likely suffered the greatest losses in crop yield potential due to the chronic lack of rainfall since mid-July. However, crops in neighboring states (Rajasthan, Madhya Pradesh, and Maharashtra) have also experienced periods of stress, requiring an immediate resumption in monsoon rainfall to avoid significant losses in summer production potential. On a positive note, showers (10-50 mm) brought additional relief to oilseed and cotton areas of Andhra Pradesh, improving crop prospects and boosting irrigation levels for winter production. In the east, widespread rain (25-50 mm or more) maintained generally favorable conditions for rice. In Pakistan and north-central India, sporadic rainfall and above-normal temperatures (highs from 35-40 degrees C) increased irrigation demands on immature rice and cotton. The southwest monsoon typically begins its seasonal withdrawal from this region in early September, marking the end of the summer rainy season.



**SOUTHEAST ASIA**

Widespread showers (25-75 mm) returned to Thailand and northern and southern Vietnam, boosting moisture supplies for rice. The lull in the monsoon during the past few weeks provided sunnier weather for rice development but reduced moisture supplies. Widespread showers (20-100 mm) maintained adequate moisture supplies across the Philippines. Unseasonably heavy showers (25-130 mm) boosted moisture supplies for oil palm across peninsular Malaysia, but caused local flooding. Scattered, light showers (5-30 mm) prevailed across Java, Indonesia, where moisture supplies are adequate for irrigated second-crop rice.

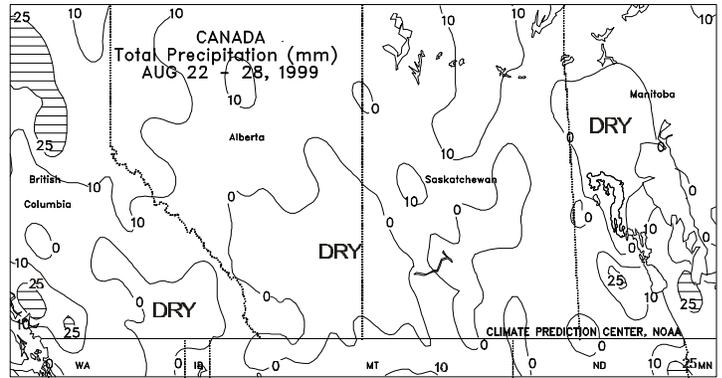


**AUSTRALIA**

Scattered light to moderate showers (5-25 mm or more) swept across the western and southeastern winter grain belts, maintaining generally favorable topsoil moisture levels for tillering wheat and barley. Heaviest rainfall (25 mm or greater) was recorded over New South Wales, extending as far north as the Darling Downs. In eastern agricultural districts, temperatures averaging 2 to 4 degrees C above normal favored vegetative development. In Western Australia, temperatures were more seasonable. Patchy frost was possible in outlying sections of Western Australia and locally from South Australia to southern New South Wales, slowing growth rates of grains and oilseeds. In Queensland, dry weather favored maturation and early harvests of barley and wheat. Scattered showers (25 mm or less) along the northern coast of New South Wales kept unharvested sugarcane unfavorably wet. In New Zealand, cool, mostly dry weather dominated primary small grain and pasture areas.

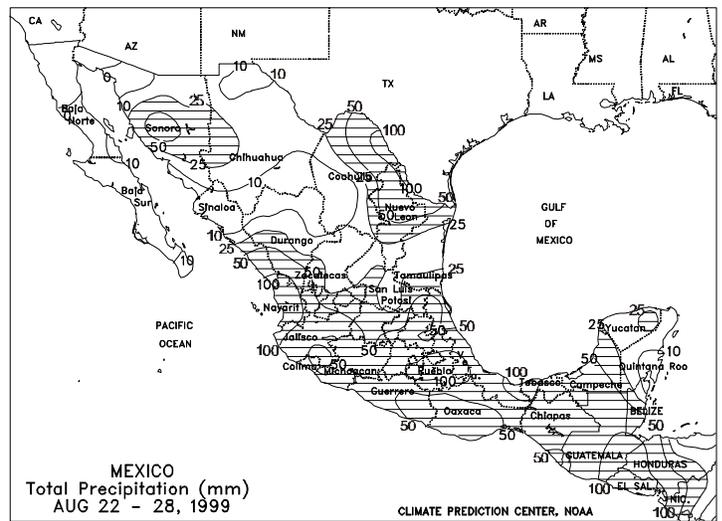
**CANADA**

Warm, dry weather continued across the Prairies, favoring maturation and harvesting of spring grains and oilseeds. Temperatures averaged 2 to 4 degrees C above normal, with highs in the low to middle 30's degrees C recorded over Manitoba, Saskatchewan, and southern Alberta. The current trend of warmth and dryness has been ideal for development of late-planted crops, and has greatly improved crop quality prospects. The potential for frost damage has also declined. Swathing of grains and oilseeds has steadily increased across the Prairies, with crops farthest behind in development reportedly just 1 to 2 weeks away from harvest. In eastern Canada, rain (10-25 mm) and seasonal warmth benefited immature corn and soybeans in southern Ontario. Dry, warm weather accelerated crop growth across Quebec's summer crop areas.



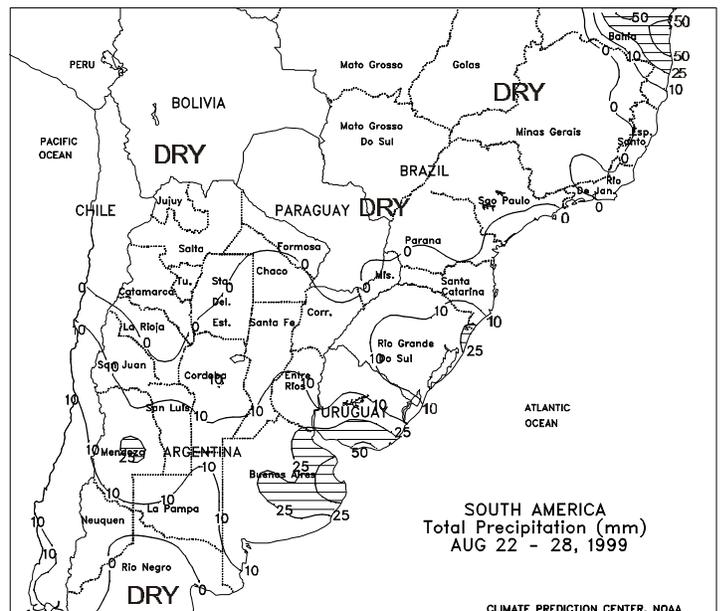
**MEXICO**

Widespread showers (35-90 mm, with isolated amounts greater than 125 mm) continued to favor corn across the Southern Plateau and Yucatan Peninsula. Remnants of Hurricane Bret spread across northern Mexico, producing variable showers (10-50 mm). Isolated heavier amounts (100-150 mm) were reported along the border of Coahuila and Texas. Temperatures averaged 1 to 2 degrees C above normal across the Southern Plateau and 1 to 3 degrees C below normal in the northeast due to the remnants of Bret.



**SOUTH AMERICA**

Much-needed rain (5-20 mm) boosted topsoil moisture for germinating and vegetative winter wheat across the main wheat regions of central Argentina. Higher amounts (20-35 mm) fell in central Buenos Aires. Little or no rain fell in La Pampa. Minimum temperatures reached 0 to -4 degrees C across central and southern Buenos Aires and La Pampa, burning back very early vegetative growth. According to reports as of August 20, Argentine winter wheat was 97 percent planted, compared with the 3-year average of 95 percent. In all provinces, planting was complete except in Buenos Aires where planting was 96 percent complete. In southern Brazil, light rain (less than 20 mm) fell across Rio Grande do Sul, and dry weather prevailed across Parana. Adequate soil moisture exists for vegetative to reproductive winter wheat. Warm weather favored citrus and coffee harvesting. Temperatures averaged 1 to 2 degrees C below normal across central Argentina and 1 to 3 degrees C above normal in southern Brazil.



## June 1999

**MONTHLY DATA FROM SELECTED FOREIGN CITIES  
CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA  
\*\*\* DATA NOT AVAILABLE**
**CORRECTION**

In the Vol. 86, No. 27, Weekly Weather and Crop Bulletin, the June 1999 Monthly Data From Selected Foreign Cities (pages 19-20) incorrectly contained the May 1999 data.

The following table contains the correct data for June 1999.

We apologize for any inconvenience this may have caused.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	17	9	24	5	13	-0.9	154	81
FINLAND	HELSINKI	23	13	28	4	18	3.0	26	-18
UKINGDOM	GLASGOW	**	**	**	12	**	***	**	**
	EDINBURGH	17	9	23	5	13	0.0	82	32
IRELAND	DUBLIN	16	8	22	2	12	-1.2	51	-5
ICELAND	REYKJAVIK	12	7	19	4	9	0.3	47	-3
DENMARK	COPENHAGEN	18	10	22	7	14	-1.3	84	37
LUXEMBOR	LUXEMBOURG	20	11	26	6	15	0.0	105	31
SWITZERL	ZURICH	19	11	28	6	15	-0.3	202	75
	GENEVA	22	12	29	8	17	0.7	98	11
FRANCE	PARIS/ORLY	21	12	27	7	17	***	44	**
	STRASBOURG	23	13	31	6	17	0.5	58	-18
	BOURGES	22	12	30	7	17	0.3	22	-36
	BORDEAUX	24	14	34	9	19	1.2	66	9
	TOULOUSE	25	14	32	8	19	1.2	15	-45
	MARSEILLE	27	16	31	12	22	0.9	4	-25
SPAIN	VALLADOLID	28	11	35	6	19	1.7	8	-27
	MADRID	29	15	35	10	22	0.9	17	-9
	SEVILLE	34	19	41	15	26	1.2	0	-9
PORTUGAL	LISBON	26	16	34	13	21	1.2	0	-22
GERMANY	HAMBURG	20	10	27	5	16	0.0	40	-35
	BERLIN	22	12	27	8	17	-0.2	45	-31
	DUSSELDORF	22	11	29	6	16	-0.5	62	-4
	LEIPZIG	20	11	28	7	16	-0.6	54	-13
	DRESDEN	20	12	27	7	16	-0.7	85	17
	STUTTGAERT	21	11	30	4	16	-0.4	84	-10
	NURNBERG	21	11	29	3	16	-0.7	77	2
AUSTRIA	VIENNA	23	14	28	6	18	-0.2	47	-16
	INNSBRUCK	21	11	30	5	16	-0.7	137	30
CZECHREP	PRAGUE	20	11	26	6	15	-0.8	49	-24
POLAND	WARSAW	22	14	29	7	18	1.3	121	50
	LODZ	20	12	28	5	16	0.4	143	73
	KATOWICE	21	12	27	5	17	0.9	180	92
	PRZEMYSL	23	14	29	7	18	1.9	67	-30
HUNGARY	BUDAPEST	25	15	30	8	20	0.7	135	72
YUGOSLAV	BELGRADE	25	16	31	9	21	0.7	129	36
ROMANIA	BUCHAREST	29	14	33	5	22	1.3	41	-47
BULGARIA	SOFIA	25	14	30	8	19	1.4	89	5
ITALY	MILAN	28	17	33	13	22	1.7	80	12
	VERONA	26	17	30	11	22	0.8	500	413
	VENICE	26	17	30	13	21	0.9	88	13
	GENOA	25	20	29	17	23	0.8	29	-21
	ROME	27	16	31	12	22	0.8	37	16
GREECE	THESSALONIKA	30	19	34	16	25	0.6	45	13
	LARISSA	32	18	38	13	25	0.0	4	-20
	ATHENS	32	22	35	17	27	1.6	0	-9
TURKEY	ISTANBUL	26	19	34	15	23	2.1	46	22
	ANKARA	25	11	32	4	18	-2.3	50	12
CYPRUS	LARNACA	30	20	34	17	26	1.0	0	-5
ESTONIA	TALLINN	22	12	31	3	18	3.0	56	5
LITHUANI	KAUNAS	24	14	30	5	19	3.1	56	-37
BELARUS	MINSK	27	15	32	7	21	5.0	90	12
RUSSIA	KAZAN	24	13	32	4	20	2.2	34	-34
	MOSCOW	27	15	33	4	21	4.7	10	-67
	YEKATERINBUR	20	10	29	1	15	-1.5	48	-23
	OMSK	19	9	29	3	14	-3.4	47	-11
	NOVOSIBIRSK	19	10	30	2	14	-1.7	61	8
	BARNAUL	22	10	34	2	16	-1.7	217	174
	KHABAROVSK	23	12	30	6	17	-0.6	82	3
	VLADIVOSTOK	18	13	26	10	15	1.8	58	-54
	SARATOV	26	16	31	7	20	1.7	18	-26
	VOLGOGRAD	28	17	34	10	23	1.1	42	15
	ASTRAKHAN	30	18	35	13	24	1.0	10	-12
	KRASNODAR	28	17	33	13	23	1.5	151	74
	ORENBURG	25	13	31	3	19	-0.5	25	-13
KAZAKHST	TSELINOGRAD	20	11	26	2	15	-3.6	113	78
	KARAGANDA	21	11	27	2	16	-2.8	74	38
GEORGIA	TBILISI	27	17	33	13	22	0.8	45	-24
UZBEKIST	TASHKENT	32	17	39	8	25	-1.1	48	41
TURKMENI	ASHKHABAD	36	23	42	16	30	1.1	0	-4

Based on Preliminary Reports

June 1999

COUNTRY	CITY	TEMPERATURE (C)						PRECIPITATION (MM)			COUNTRY	CITY	TEMPERATURE (C)						PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM	AVG MAX			AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM		
SYRIA	DAMASCUS	34	17	40	12	25	0.8	0	0			DURBAN	24	11	33	6	18	1.1	75	47	
ISRAEL	JERUSALEM	28	16	32	13	22	0.0	0	0			CAPE TOWN	20	9	31	4	15	1.9	73	-20	
PAKISTAN	KARACHI	34	29	39	28	31	0.0	0	-5			TORONTO	26	15	34	8	21	3.2	66	-3	
INDIA	AMRITSAR	36	27	41	21	31	-1.2	89	32			MONTREAL	26	16	33	8	21	3.0	90	7	
	NEW DELHI	38	28	42	22	33	-0.4	72	3			WINNIPEG	22	10	32	1	16	-0.8	82	1	
	AHMEDABAD	37	27	41	22	32	-0.4	178	77			REGINA	21	8	31	2	15	-1.5	62	-4	
	INDORE	34	24	40	22	30	-0.4	234	98			SASKATOON	21	9	27	2	15	-1.6	67	6	
	CALCUTTA	34	26	40	24	30	-0.1	233	-17			LETHBRIDGE	21	6	30	-1	14	-2.2	68	2	
	VERAVAL	32	28	33	25	30	0.4	214	16			CALGARY	18	6	26	0	12	-2.1	95	19	
	BOMBAY	31	26	33	24	29	0.1	480	-168			EDMONTON	20	9	27	4	15	-0.9	58	-22	
	POONA	30	23	35	20	27	-0.9	166	42			VANCOUVER	18	11	26	8	15	-0.6	80	34	
	BEGAMPET	33	23	38	20	28	-0.8	38	-69			MEXICO	30	17	37	14	23	0.7	166	14	
	VISHAKHAPATNA	32	27	35	24	29	***	175	**			MEXICO CITY	24	15	28	14	20	2.0	56	-48	
	MADRAS	36	27	38	24	32	-0.4	108	45			ACAPULCO	33	24	35	21	29	0.0	338	92	
	MANGALORE	30	23	32	23	26	-0.3	963	-19			BERMUDA	29	22	30	19	25	-0.1	48	-89	
HONGKON	KINGS PEAK	31	26	34	25	28	***	213	**			BAHAMAS	30	24	33	22	27	0.3	256	36	
N KOREA	PYONGYANG	26	15	31	12	21	1.6	80	-77			CUBA	31	24	33	22	27	0.7	138	-24	
S KOREA	SEOUL	28	19	34	16	23	2.6	132	-37			JAMAICA	32	26	34	24	29	0.4	48	-17	
JAPAN	SAPORO	22	14	28	9	18	1.7	33	-35			P RICO	31	25	34	23	28	0.0	140	44	
	NAGOYA	27	19	33	16	23	0.7	316	96			GUADELOU	32	25	33	23	29	1.4	144	81	
	TOKYO	26	20	33	16	23	1.1	193	8			MARTINIQ	31	25	32	22	28	1.5	138	-31	
	YOKOHAMA	25	20	31	15	23	1.5	172	-44			BARBADOS	31	26	32	24	28	0.8	71	-12	
	KYOTO	27	20	32	14	24	1.4	525	278			TRINIDAD	32	24	34	22	28	1.6	192	-44	
	OSAKA	27	21	32	16	24	0.4	405	199			COLOMBIA	18	9	20	7	14	0.1	101	34	
THAILAND	PHETCHABUN	32	25	35	23	28	0.0	136	-46			VENEZUEL	30	23	40	21	26	-1.1	20	-35	
	BANGKOK	33	26	35	25	30	0.3	104	-43			F GUIANA	30	23	32	21	26	-0.1	427	-25	
MALAYSIA	KUALA LUMPUR	33	24	35	22	28	1.1	25	-102			BRAZIL	29	22	29	19	25	0.5	125	-238	
VIETNAM	HANOI	34	27	37	24	30	1.0	283	45			BELO	25	16	28	13	20	1.5	3	-10	
CHINA	HARBIN	25	15	34	8	20	0.4	81	13			FRANCA	24	15	27	9	20	4.1	26	-1	
	HAMI	33	17	39	11	25	0.3	4	-2			LONDRINA	22	12	26	6	16	-1.2	109	13	
	LANCHOW	26	16	32	10	21	0.9	74	37			SANTA MARIA	18	10	26	1	14	0.7	110	-34	
	BEIJING	31	20	38	14	25	1.0	24	-47			PORTO ALEGRE	18	10	26	3	14	-0.7	51	-89	
	TIENTSIN	31	20	38	15	26	1.2	69	4			PERU	20	15	22	13	18	-0.2	0	-1	
	LHASA	23	12	28	4	17	0.8	75	4			BOLIVIA	14	-1	20	-7	6	-0.3	0	-3	
	KUNMING	26	19	29	11	22	2.0	180	10			CHILE	16	4	20	-1	10	1.6	34	-32	
	CHENGCHOW	31	21	38	18	26	0.3	28	-33			ARGENTIN	20	12	28	1	15	***	169	**	
	YECHANG	29	21	39	18	25	1.5	137	-15			FORMOSA	21	13	31	4	17	-0.2	123	64	
	HANKOW	28	22	36	18	25	-0.4	470	265			CERES	17	7	23	-2	12	-1.0	97	75	
	CHUNGKING	28	23	37	19	26	***	184	**			CORDOBA	16	6	25	-1	10	-0.3	108	97	
	CHIHKIANG	29	22	34	17	25	0.0	199	3			RIO CUARTO	14	6	21	0	9	-0.5	130	113	
	WU HU	27	21	36	17	24	***	816	**			ROSARIO	16	7	20	0	11	0.6	69	32	
	SHANGHAI	25	20	33	16	22	***	719	**			BUENOS AIRES	15	6	19	-1	10	0.3	11	-39	
	NANCHANG	29	23	35	19	26	0.0	421	139			SANTA ROSA	13	3	20	-2	8	-0.1	17	1	
	TAIPEI	32	25	34	21	28	1.7	533	217			TRES ARROYOS	12	4	16	-5	8	0.0	17	-12	
	CANTON	33	26	36	24	29	1.3	152	-106			NEW CAL	24	19	26	16	21	0.0	57	-72	
	NANNING	32	25	37	23	28	0.2	145	-71			FIJI	27	20	31	17	23	0.1	234	93	
CANARY I	LAS PALMAS	25	20	28	18	23	1.3	0	0			SAMOA	30	25	32	22	27	0.5	162	-27	
MOROCCO	CASABLANCA	24	19	27	17	21	1.0	0	-6			TAHITI	30	22	31	21	26	0.8	171	112	
	MARRAKECH	34	18	41	14	26	1.7	0	-5			AUSTRALI	30	21	34	16	25	0.2	1	-1	
ALGERIA	ALGER	29	18	35	14	23	1.8	2	-19			MOREE	**	**	29	25	**	***	**	**	
	BATNA	34	17	39	8	26	4.8	4	-19			BRISBANE	20	11	23	3	16	-0.6	245	171	
TUNISIA	TUNIS	32	20	41	14	26	3.2	5	-6			PERTH	19	10	21	3	15	0.5	144	-24	
NIGER	NIAMEY	40	28	43	21	34	2.2	45	-22			CEDUNA	19	7	23	0	13	0.5	13	-18	
MALI	TIMBUKTU	42	30	45	26	36	1.3	8	-8			ADELAIDE	15	8	20	3	12	0.1	70	19	
	BAMAKO	35	25	41	21	30	1.1	108	-19			MELBOURNE	14	6	18	-1	10	0.4	20	-18	
MAURITAN	NOUAKCHOTT	33	24	45	21	28	1.0	0	0			WAGGA	13	5	19	-2	9	0.8	64	23	
SENEGAL	DAKAR	30	25	31	23	27	1.2	11	-2			CANBERRA	12	1	16	-6	7	0.2	39	10	
CHAGOS A	DIEGO GARCIA	29	26	30	24	27	0.7	34	-124			INDONESI	31	24	33	22	27	0.7	60	**	
LIBYA	TRIPOLI	37	23	47	16	30	3.8	0	-2			PHILIPPI	31	26	33	24	29	0.0	315	59	
	BENGHAZI	32	22	40	16	27	1.4	0	0												
EGYPT	CAIRO	34	22	39	19	28	0.3	0	0												
	ASWAN	**	**	43	23	**	***	**	**												
ETHIOPIA	ADDIS ABABA	23	12	29	10	17	0.5	157	39												
KENYA	NAIROBI	24	13	28	10	18	0.8	2	-25												
TANZANIA	DAR ES SALAAM	28	20	30	16	24	-0.2	82	47												
GABON	LIBREVILLE	29	24	30	21	27	1.2	0	-18												
TOGO	LOME	30	25	34	22	27	1.0	127	-152												
BURKINA	OUAGADOUGOU	37	27	40	23	31	1.7	75	-33												
COTE DI	ABIDJAN	31	25	32	22	28	1.4	497	-71												
MOZAMBIQ	MAPUTO	26	14	30	11	20	1.1	16	1												
ZAMBIA	LUSAKA	23	**	29	6	**	***	0	-1												
ZIMBABWE	HARARE	22	9	26	5	16	2.4	0	-3												
S AFRICA	PRETORIA	21	5	25	0	13	1.5	17	10												

## July 1999

MONTHLY DATA FROM SELECTED FOREIGN CITIES  
CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA

\*\*\* DATA NOT AVAILABLE

**CORRECTION**

In the Vol. 86, No. 32, Weekly Weather and Crop Bulletin, the July 1999 Monthly Data From Selected Foreign Cities (pages 26-27) incorrectly contained the May 1999 data.

The following table contains the correct data for July 1999.

We apologize for any inconvenience this may have caused.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	22	12	27	5	17	1.5	53	-25
FINLAND	HELSINKI	24	13	30	10	19	1.9	25	-48
UKINGDOM	EDINBURGH	20	11	26	4	15	0.8	41	-17
IRELAND	DUBLIN	20	12	26	8	16	0.7	49	-1
ICELAND	REYKJAVIK	13	9	19	6	11	0.7	67	15
DENMARK	COPENHAGEN	23	14	28	10	18	0.5	18	-53
LUXEMBOR	LUXEMBOURG	24	15	30	10	19	2.2	50	-17
SWITZERL	ZURICH	23	15	31	10	19	1.3	101	-18
	GENEVA	25	16	33	12	21	2.1	87	19
FRANCE	PARIS/ORLY	27	16	33	10	21	***	35	**
	STRASBOURG	26	16	32	9	21	1.9	80	24
	BOURGES	27	15	33	9	21	1.9	114	62
	BORDEAUX	28	17	36	12	22	2.3	62	16
	TOULOUSE	29	17	36	13	23	1.8	22	-19
	MARSEILLE	30	20	33	16	25	1.4	29	15
SPAIN	VALLADOLID	31	15	38	10	23	1.8	51	34
	MADRID	33	18	38	15	26	1.2	14	7
	SEVILLE	35	21	41	18	28	0.1	1	0
PORTUGAL	LISBON	28	18	37	16	23	1.0	40	37
GERMANY	HAMBURG	25	14	34	7	19	2.4	32	-50
	BERLIN	26	16	35	11	21	2.4	27	-25
	DUSSELDORF	26	15	32	12	20	1.9	49	-26
	LEIPZIG	25	15	33	11	20	2.1	91	28
	DRESDEN	24	15	33	11	20	1.4	141	32
	STUTTART	25	14	33	10	19	1.7	83	5
	NURNBERG	25	14	33	10	19	1.1	69	0
AUSTRIA	VIENNA	26	16	36	13	21	0.8	91	21
	INNSBRUCK	24	14	33	11	19	1.3	145	18
CZECHREP	PRAGUE	24	14	32	10	19	1.3	99	33
POLAND	WARSAW	26	15	32	11	20	2.5	24	-43
	LODZ	25	15	32	7	20	2.1	48	-43
	KATOWICE	25	14	32	9	20	1.9	83	-11
	PRZEMYSL	25	16	31	10	20	2.7	65	-34
HUNGARY	BUDAPEST	27	17	34	15	22	1.4	123	71
YUGOSLAV	BELGRADE	26	18	34	15	22	0.5	238	169
ROMANIA	BUCHAREST	30	17	34	12	24	1.2	82	17
BULGARIA	SOFIA	28	16	30	13	22	1.9	58	-1
ITALY	MILAN	30	20	34	17	25	2.1	54	-10
	VERONA	29	20	32	16	24	0.8	52	-9
	VENICE	28	19	31	15	24	0.7	57	-7
	GENOA	29	23	32	21	26	1.4	33	6
	ROME	29	19	33	16	24	0.2	20	7
	NAPLES	**	**	33	18	**	***	**	**
GREECE	THESSALONIKA	32	22	35	19	27	1.0	77	53
	LARISSA	33	20	36	17	26	-0.5	0	-21
	ATHENS	34	24	37	21	29	1.0	61	59
TURKEY	ISTANBUL	30	23	33	19	26	3.0	1	-21
	ANKARA	30	14	35	10	22	-1.5	46	26
CYPRUS	LARNACA	33	23	37	21	28	0.7	0	-1
ESTONIA	TALLINN	22	14	30	8	18	1.7	44	-32
LITHUANI	KAUNAS	25	14	33	10	20	2.5	29	-43
BELARUS	MINSK	26	16	33	12	21	3.9	54	-48
RUSSIA	KAZAN	27	16	32	7	21	1.8	46	-23
	MOSCOW	27	17	34	11	22	3.5	68	-23
	YEKATERINBUR	25	15	31	8	20	1.5	44	-36
	OMSK	28	15	34	7	22	1.9	37	-24
	NOVOSIBIRSK	28	16	33	10	22	3.2	15	-44
	BARNAUL	29	16	35	9	23	2.7	21	-41
	KHABAROVSK	29	18	35	13	24	2.4	140	8
	VLADIVOSTOK	21	17	28	13	19	1.6	88	-56
	SARATOV	29	19	35	11	24	3.5	26	-26
	VOLGOGRAD	31	19	39	11	25	1.3	11	-16
	ASTRAKHAN	32	20	39	15	26	0.7	72	50
	KRASNODAR	32	19	36	16	25	1.7	41	-5
	ORENBURG	30	17	39	8	23	1.2	24	-13
KAZAKHST	TSELINOGRAD	28	17	38	12	22	1.0	40	-10
	KARAGANDA	28	15	33	10	21	0.6	29	-12
GEORGIA	TBILISI	32	20	38	16	26	1.4	24	-21
UZBEKIST	TASHKENT	33	19	36	14	26	-1.4	10	6
TURKMENI	ASHKHABAD	36	24	42	10	30	-0.6	5	2

Based on Preliminary Reports

July 1999

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM			AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
SYRIA	DAMASCUS	37	18	41	15	28	1.2	0	0		DURBAN	23	12	28	8	18	1.3	5	-35
ISRAEL	JERUSALEM	**	**	33	16	**	**	**	**		CAPE TOWN	18	8	27	1	13	1.1	40	-43
PAKISTAN	KARACHI	32	27	35	26	30	-0.4	0	-88	CANADA	TORONTO	30	19	35	12	24	3.8	42	-35
INDIA	AMRITSAR	35	27	42	23	31	0.7	27	-173		MONTREAL	28	18	32	13	23	1.8	76	-10
	NEW DELHI	36	28	41	25	32	1.1	114	-110		WINNIPEG	25	13	33	6	19	-0.6	57	-17
	AHMEDABAD	33	26	36	23	30	-0.1	302	45		REGINA	24	11	33	6	17	-2.0	34	-25
	INDORE	30	23	37	22	27	0.2	141	-135		SASKATOON	23	10	30	5	16	-2.3	83	25
	CALCUTTA	33	26	36	24	29	0.3	405	83		LETHBRIDGE	24	7	34	1	16	-2.7	75	30
	VERAVAL	30	27	32	25	29	0.4	79	-191		CALGARY	20	8	32	1	14	-2.7	93	24
	BOMBAY	31	26	33	25	28	1.2	352	-593		EDMONTON	21	11	28	6	16	-1.6	76	-19
	POONA	28	22	33	22	25	-0.2	143	-45		VANCOUVER	21	13	26	10	17	-0.6	65	29
	BEGAMPET	31	23	37	21	27	0.1	124	-44	MEXICO	GUADALAJARA	27	16	29	13	21	-0.3	124	-133
	VISHAKHAPATNA	31	27	35	25	29	**	19	**		MEXICO CITY	22	13	27	11	18	0.8	118	-8
	MADRAS	36	27	39	23	31	0.7	63	-65		ACAPULCO	32	24	35	22	28	-0.4	298	127
	MANGALORE	28	23	31	22	26	-0.5	1313	254	BERMUDA	ST. GEORGES	30	24	32	20	27	0.4	152	44
HONGKON	KINGS PEAK	31	27	34	25	29	**	185	**	BAHAMAS	NASSAU	32	25	34	21	28	0.3	126	-14
N KOREA	PYONGYANG	27	19	32	15	23	-0.3	329	-68	CUBA	HAVANA	32	25	34	23	28	0.9	39	-67
S KOREA	SEOUL	30	22	35	18	26	1.6	222	-136	JAMAICA	KINGSTON	33	26	35	25	30	0.8	12	-28
JAPAN	SAPORO	26	19	33	13	23	2.4	159	90	P RICO	SAN JUAN	31	24	33	23	28	-0.6	135	27
	NAGOYA	30	23	35	20	26	0.5	168	-47	GUADELOU	RAIZET	32	25	33	23	28	1.1	125	47
	TOKYO	30	23	34	17	26	1.2	347	220	MARTINIQ	LAMENTIN	31	25	32	22	28	1.3	233	17
	YOKOHAMA	29	23	32	17	26	1.1	308	167	BARBADOS	BRIDGETOWN	30	25	31	24	28	0.4	131	0
	KYOTO	31	23	35	18	27	0.5	109	-141	TRINIDAD	PORT OF SPAIN	32	24	35	23	28	1.7	158	-95
	OSAKA	31	24	35	19	27	0.2	115	-44	COLOMBIA	BOGOTA	18	9	20	3	13	0.3	29	-8
THAILAND	PHETCHABUN	31	25	35	23	28	0.5	104	-94	VENEZUEL	CARACAS	31	23	33	21	27	0.4	93	36
	BANGKOK	33	27	35	24	30	1.0	76	-79	F GUIANA	CAYENNE	31	22	33	21	27	0.9	220	-25
MALAYSIA	KUALA LUMPUR	33	24	34	22	28	1.6	121	-11	BRAZIL	RECIFE	28	21	28	17	25	0.5	259	-120
VIETNAM	HANOI	35	27	38	24	31	2.0	337	14		BELO	25	16	28	12	20	1.8	0	-39
CHINA	HARBIN	30	21	35	17	25	2.1	98	-45		FRANCA	26	16	28	12	21	5.6	1	-21
	HAMI	36	21	42	12	29	1.9	12	5		LONDRINA	24	13	29	9	19	2.1	37	-30
	LANCHOW	28	18	38	14	23	0.5	111	55		SANTA MARIA	18	11	28	2	14	0.7	199	50
	BEIJING	33	23	42	18	28	2.2	63	-113		PORTO ALEGRE	18	11	26	5	15	0.4	146	18
	TIENTSIN	32	23	39	17	28	1.2	138	-38	PERU	LIMA	19	15	22	14	17	0.1	0	-1
	LHASA	22	11	27	8	17	0.4	117	-8	BOLIVIA	LA PAZ	14	-2	25	-6	6	-0.5	9	0
	KUNMING	25	18	28	15	21	1.3	281	79	CHILE	SANTIAGO	15	1	25	-4	8	0.0	24	-56
	CHENGCHOW	32	23	38	19	27	0.4	231	85	ARGENTIN	IGUAZU	20	12	29	4	16	**	122	**
	YECHANG	31	24	39	21	27	-0.2	139	-67		FORMOSA	20	12	30	4	16	-1.2	21	-27
	HANKOW	32	25	37	21	28	-0.4	77	-74		CERES	16	5	27	-2	11	-1.5	27	8
	CHUNGKING	31	24	37	22	28	**	263	**		CORDOBA	16	4	26	-2	10	-0.5	1	-12
	CHIHKIANG	30	23	35	20	27	-0.9	177	61		RIO CUARTO	15	4	27	-1	9	-0.2	96	82
	WU HU	29	24	36	21	27	**	105	**		ROSARIO	15	5	24	-2	10	-0.2	17	-22
	SHANGHAI	28	24	34	20	26	**	75	**		BUENOS AIRES	14	5	23	-2	10	0.0	90	34
	NANCHANG	31	25	36	21	28	-1.9	284	163		SANTA ROSA	14	2	25	-5	8	0.4	16	-3
	TAIPEI	33	27	35	25	30	1.4	233	-1		TRES ARROYOS	13	4	23	-4	8	0.8	38	-4
	CANTON	33	26	36	23	30	0.8	176	-37	NEW CAL	NOUMEA	24	19	30	14	22	1.7	123	50
	NANNING	33	26	36	23	29	0.7	217	17	FIJI	NAUSORI	27	21	29	17	24	1.6	95	-17
CANARY I	LAS PALMAS	28	22	31	21	25	1.2	0	0	SAMOA	PAGO PAGO	30	25	30	22	27	1.3	86	-73
MOROCCO	CASABLANCA	26	21	29	19	23	0.7	0	-1	TAHITI	PAPEETE	30	22	31	20	26	1.2	13	-47
	MARRAKECH	37	21	46	17	29	0.3	0	-1	AUSTRALI	DARWIN	29	19	33	14	24	-0.9	0	-1
ALGERIA	ALGER	32	19	41	15	26	1.3	0	-1		BRISBANE	20	11	23	6	16	0.8	100	32
	BATNA	35	18	40	11	26	1.7	7	0		PERTH	19	10	25	3	14	1.2	117	-41
TUNISIA	TUNIS	33	23	38	18	28	1.5	23	20		CEDUNA	19	6	27	-1	13	1.2	8	-32
NIGER	NIAMEY	34	25	41	20	30	0.8	230	78		ADELAIDE	16	8	20	3	12	1.1	34	-33
MALI	TIMBUKTU	38	**	43	23	**	**	50	-6		MELBOURNE	15	7	18	0	11	1.4	9	-34
	BAMAKO	30	23	36	20	27	0.0	251	22		WAGGA	14	3	17	-3	8	1.0	6	-49
MAURITAN	NOUAKCHOTT	31	**	36	23	**	**	0	-13		CANBERRA	13	1	16	-6	7	1.6	18	-23
SENEGAL	DAKAR	31	26	32	22	28	1.2	81	21	INDONESI	DJAKARTA	31	24	35	21	27	1.0	51	**
CHAGOS A	DIEGO GARCIA	28	25	29	23	27	0.5	133	-8	PHILIPPI	MANILA	30	26	33	22	28	-0.3	542	242
LIBYA	TRIPOLI	34	22	42	17	28	0.6	0	0										
	BENGHAZI	30	22	32	20	26	-0.2	0	0										
EGYPT	CAIRO	35	23	41	21	29	0.9	0	0										
	ASWAN	**	**	44	24	**	**	0	0										
ETHIOPIA	ADDIS ABABA	**		30	9	**													
KENYA	NAIROBI	23	13	28	9	18	1.1	3	-8										
TANZANIA	DAR ES SALAAM	28	19	30	18	23	-0.2	860	832										
GABON	LIBREVILLE	28	23	30	21	26	1.4	0	-1										
TOGO	LOME	29	24	32	22	26	1.2	134	34										
BURKINA	OUAGADOUGOU	32	24	38	21	28	0.6	259	74										
COTE DI	ABIDJAN	29	24	31	22	27	1.5	199	-71										
MOZAMBIQ	MAPUTO	26	14	31	11	20	1.0	4	-16										
ZAMBIA	LUSAKA	**	**	27	6	**	**	0	0										
ZIMBABWE	HARARE	20	9	25	6	15	1.6	1	-1										
S AFRICA	PRETORIA	21	6	24	2	13	1.7	0	-3										
	JOHANNESBURG	17	4	21	-1	11	0.6	1	-3										
	BETHAL	19	1	22	-5	10	1.4	0	-8										

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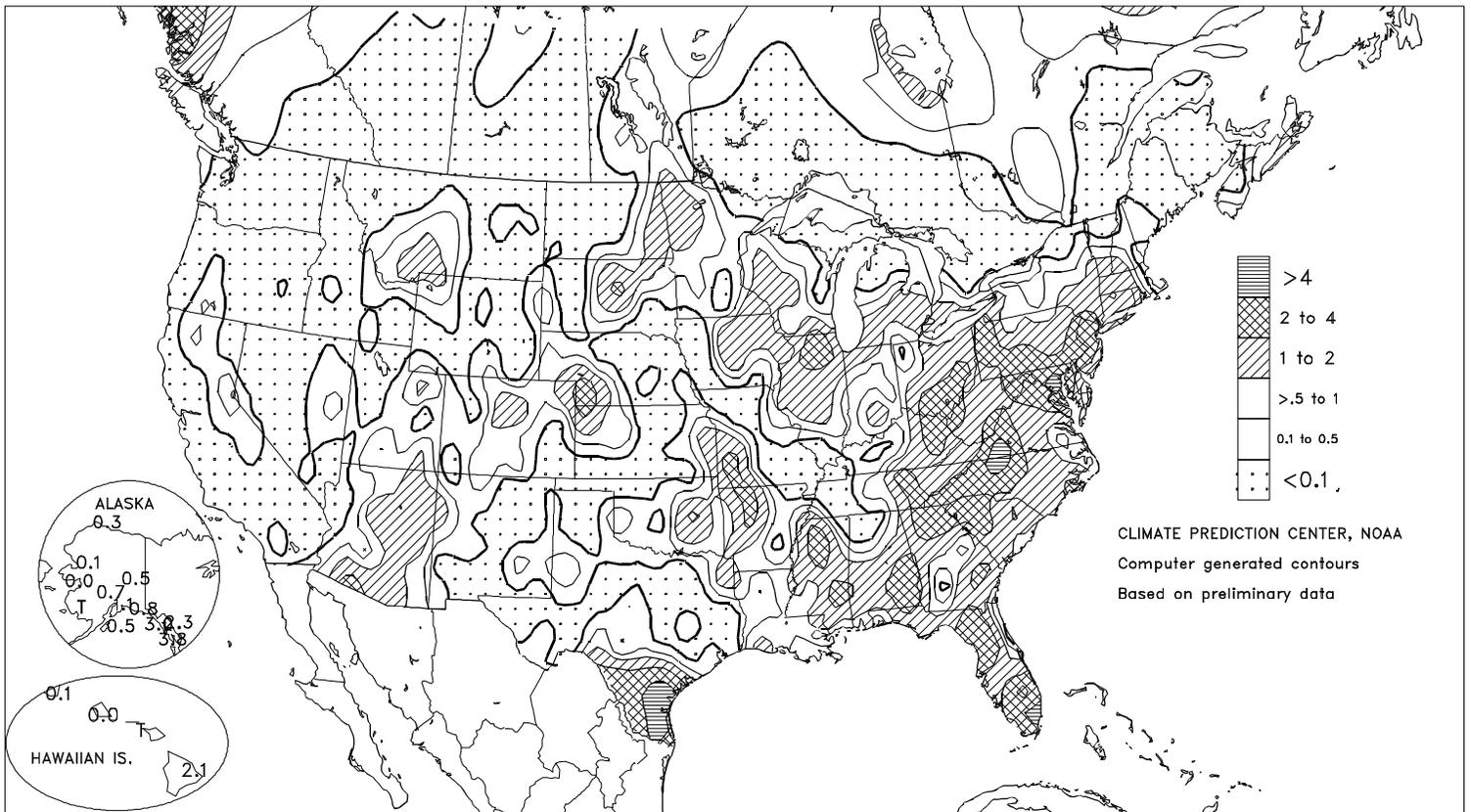
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Total Precipitation (Inches)

AUG 22 - 28, 1999



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