

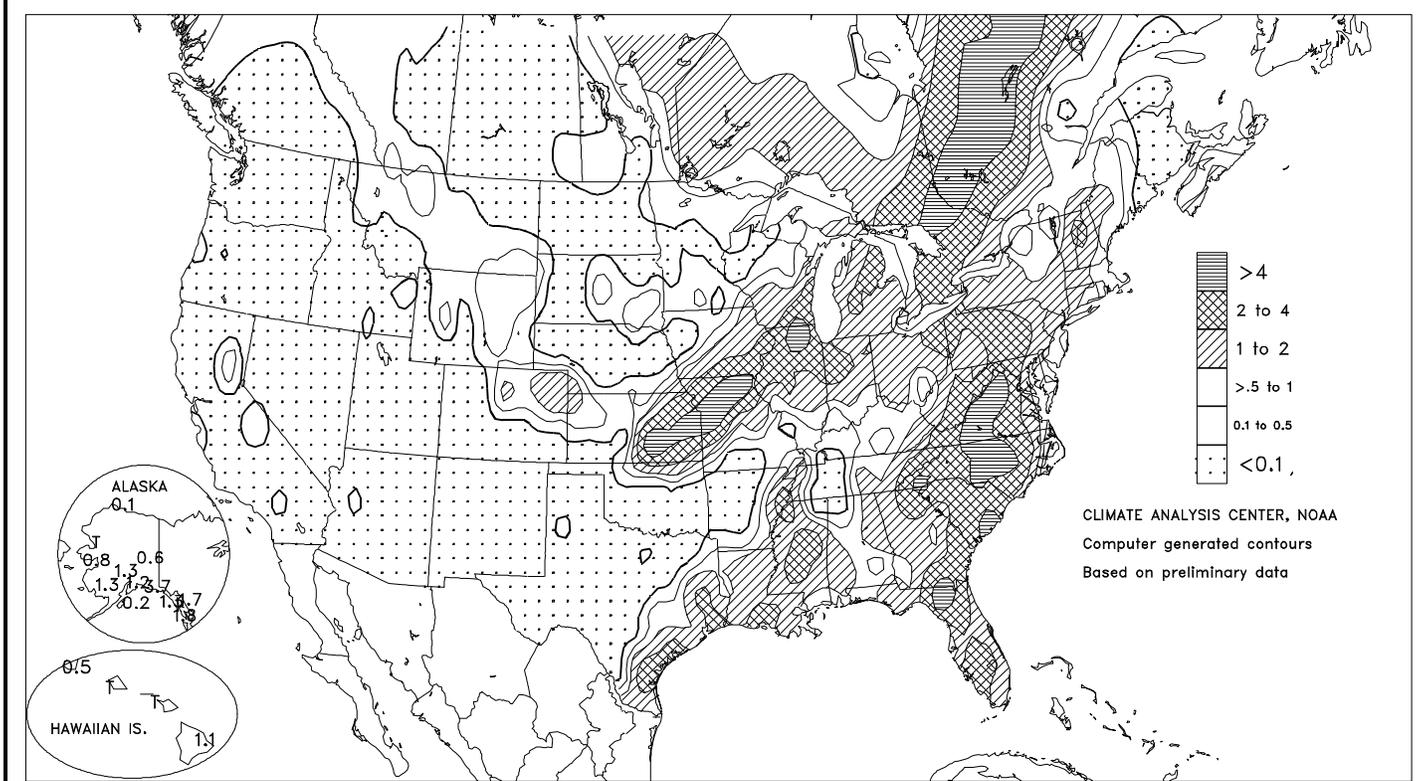
WEEKLY WEATHER AND CROP BULLETIN

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

Total Precipitation (Inches)

SEP 26 - OCT 2, 1999



HIGHLIGHTS

September 26 - October 2, 1999

Heavy rain (locally in excess of 4 inches) halted fieldwork and caused some lowland flooding from **eastern Kansas** to **southeastern Wisconsin**, and hampered flood-recovery efforts in **eastern North Carolina**. From the **Ohio Valley** southward to the **Gulf Coast**, meanwhile, scattered showers provided limited drought relief and boosted topsoil moisture for pastures and fall-sown crops. Seasonal showers continued in **Peninsular Florida**. In **California** and the **Southwest**, warm (weekly temperatures up to 7°F above normal), dry weather promoted fieldwork and summer crop maturation. In contrast, very cool weather (3 to 13°F below normal) prevailed across the **Plains**, **western Corn Belt**, and **Northwest**. Temperatures fell

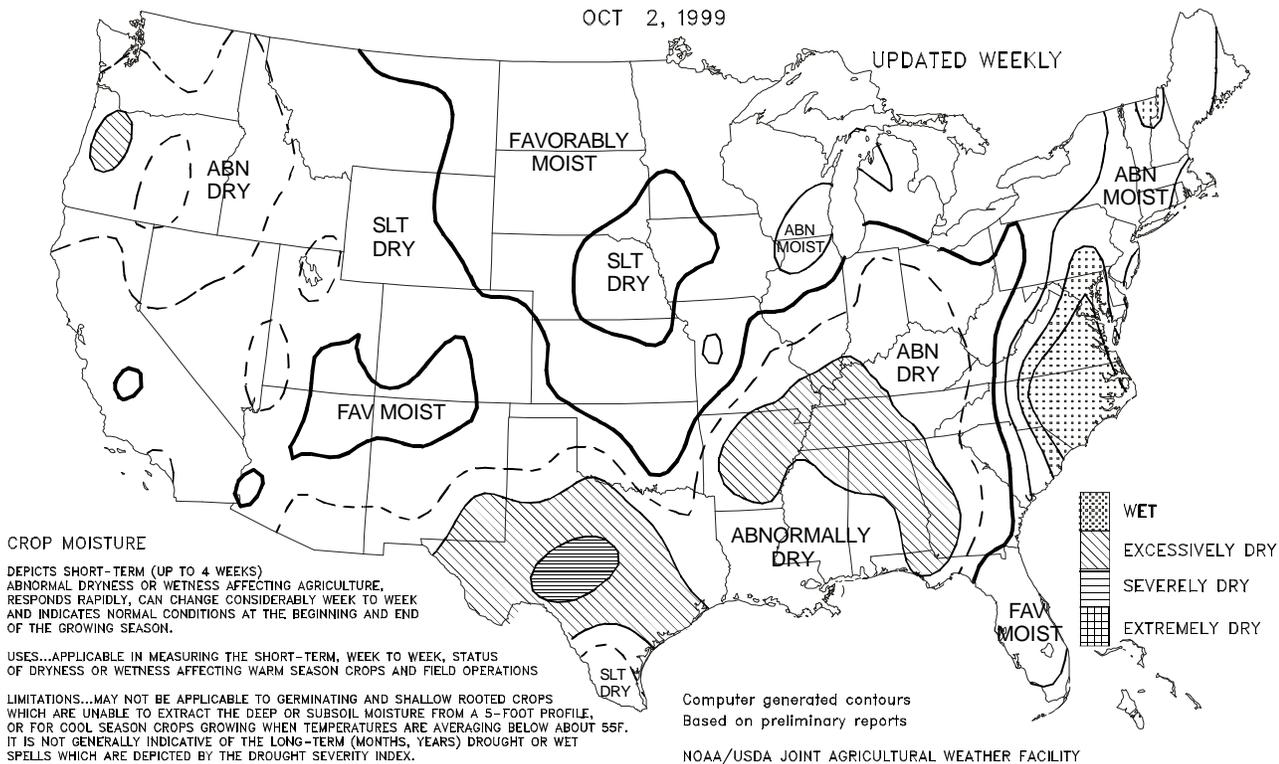
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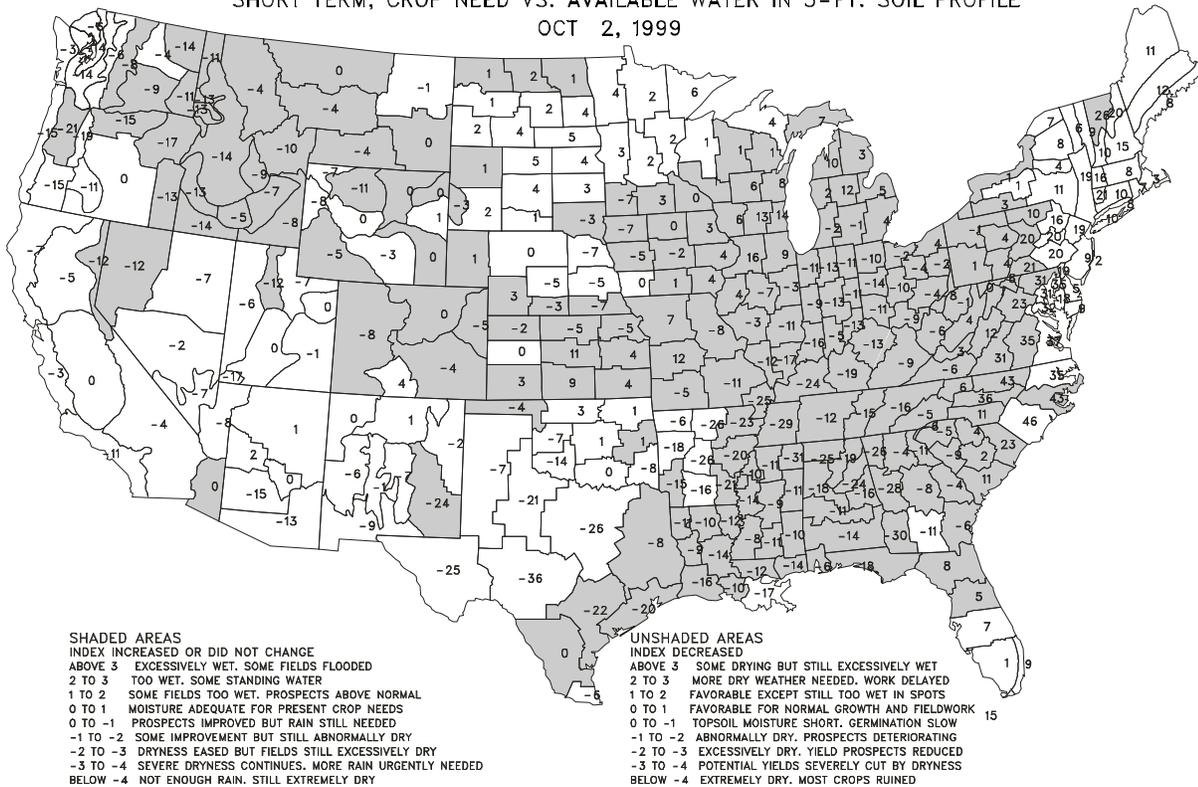
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Crop Moisture
 SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
 OCT 2, 1999

UPDATED WEEKLY



Crop Moisture Index
 SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
 OCT 2, 1999

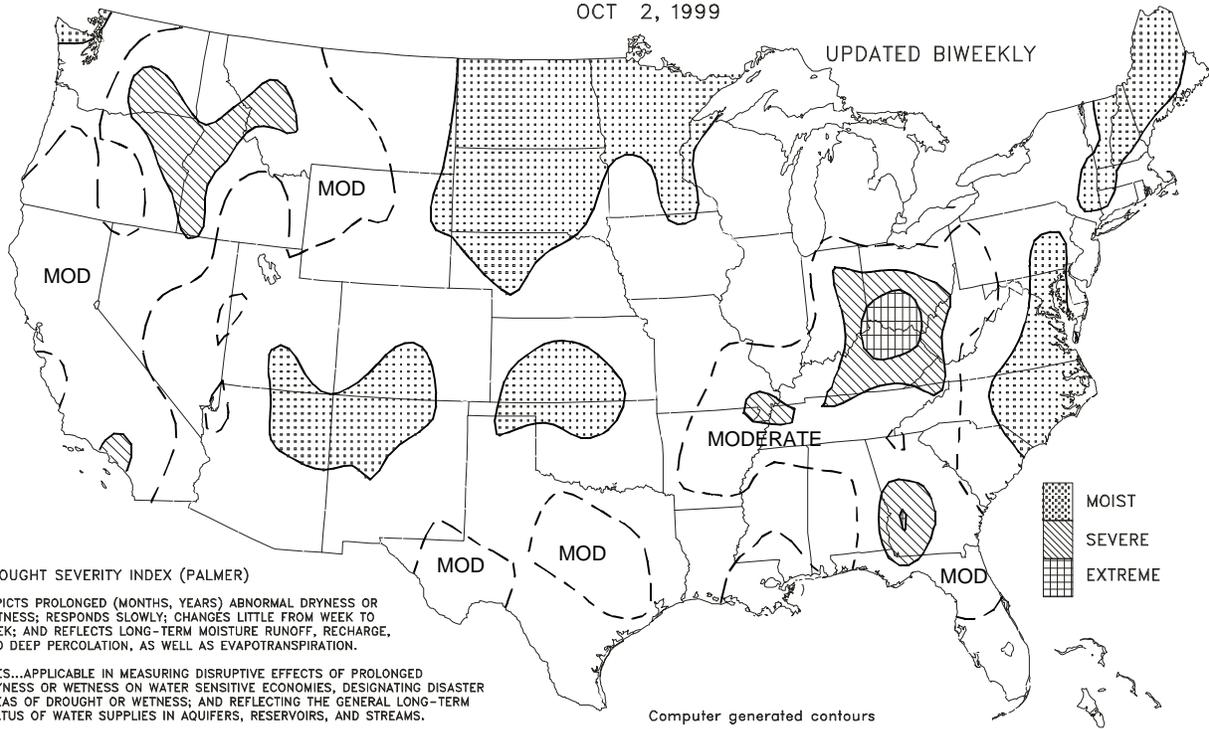


DROUGHT SEVERITY

LONG TERM PALMER

OCT 2, 1999

UPDATED BIWEEKLY



DROUGHT SEVERITY INDEX (PALMER)

DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.

USES...APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

LIMITATIONS...IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

Computer generated contours
Based on preliminary reports

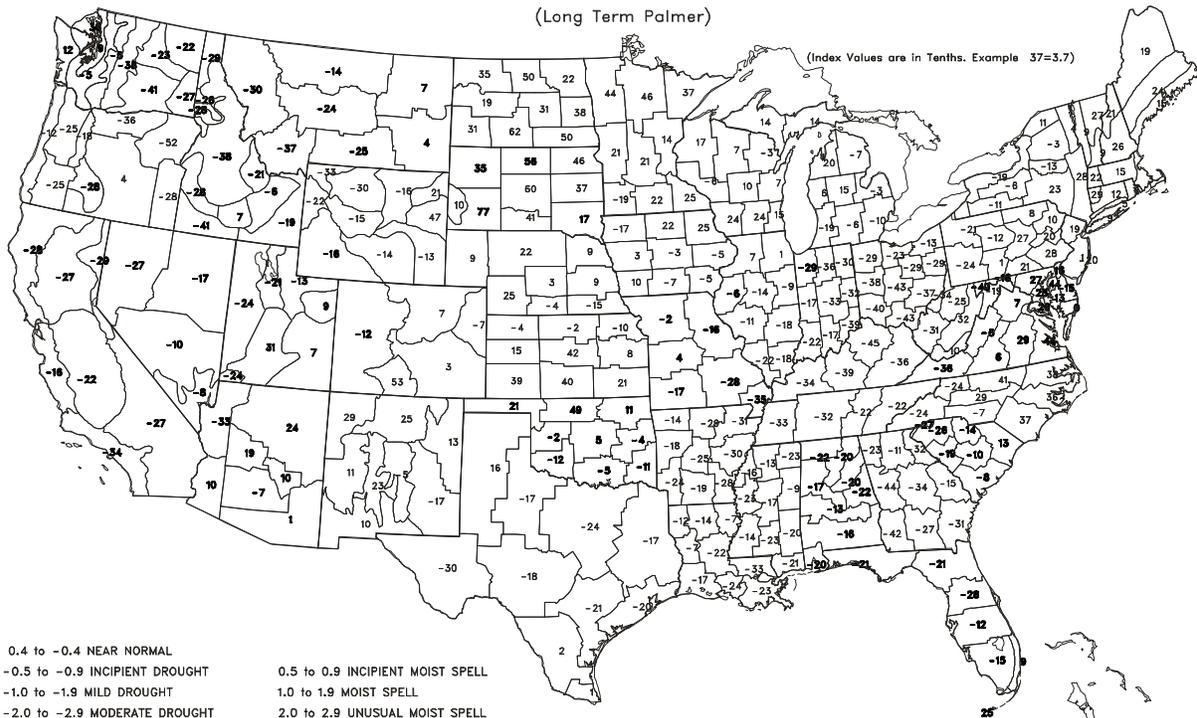
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Drought Severity Index by Division

OCT 2, 1999

(Long Term Palmer)

(Index Values are in Tenths. Example 37=3.7)



0.4 to -0.4 NEAR NORMAL
-0.5 to -0.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to -2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT

0.5 to 0.9 INCIPIENT MOIST SPELL
1.0 to 1.9 MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
ABOVE 4.0 EXTREME MOIST SPELL

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data
Bolder values are RFC/CADB derived

Weather Data for Selected Locations in the Delta

Weather Data for the Week Ending October 2, 1999

Data provided by the Mississippi State Delta Research and Extension Center (DREC) and the Southern Regional Climate Center (SRCC).

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 Sep 1	PCT. NORMAL SINCE Sep 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
MS BATESVILLE ^x	84	55	94	43	70	3	1.05	0.08	1.05	1.67	47	--	--	--	--	2	0	1	1
BELZONI ^x	85	53	93	42	69	-2	0.25	-0.25	0.25	0.60	20	--	--	--	--	3	0	1	0
CLARKSDALE ^x	83	57	91	48	70	1	2.26	1.57	1.96	2.30	83	--	--	--	--	2	0	2	1
CLEVELAND ^x	83	55	92	45	69	-1	0.38	-0.23	0.38	0.61	27	--	--	--	--	2	0	1	0
GREENVILLE ^x	83	57	93	46	70	0	0.73	0.15	0.73	1.74	65	--	--	--	--	2	0	1	1
GREENWOOD ^x	83	54	92	44	69	-1	1.78	1.01	1.62	1.98	64	--	--	--	--	2	0	4	1
INDIANOLA 1S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
INVERNESS 5E	82	58	92	48	70	--	1.15	--	0.77	1.64	--	32.66	--	78	64	2	0	3	1
LYON	84	54	93	45	69	--	2.87	--	2.48	3.19	--	--	--	--	--	3	0	2	1
MOORHEAD ^x	84	59	94	50	72	1	4.15	3.38	4.15	4.43	136	--	--	--	--	2	0	1	1
ONWARD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROLLING FORK ^x	83	56	94	46	70	0	0.24	-0.28	0.16	0.43	13	--	--	--	--	2	0	2	0
SIDON	84	57	93	49	71	--	1.14	--	0.94	2.20	--	--	--	81	73	2	0	2	1
TUNICA ^x	84	56	92	48	70	2	3.96	3.33	3.96	4.01	157	--	--	--	--	2	0	1	1
VICKSBURG ^x	82	59	89	48	71	-1	1.34	0.82	1.06	2.24	75	--	--	--	--	0	0	2	1
YAZOO CITY ^x	83	57	92	45	70	-2	2.25	1.73	1.59	3.85	136	--	--	--	--	2	0	2	2
STONEVILLE [*]	84	57	94	45	71	2	0.43	-0.27	0.43	1.72	49	38.28	100	83	69	2	0	1	0

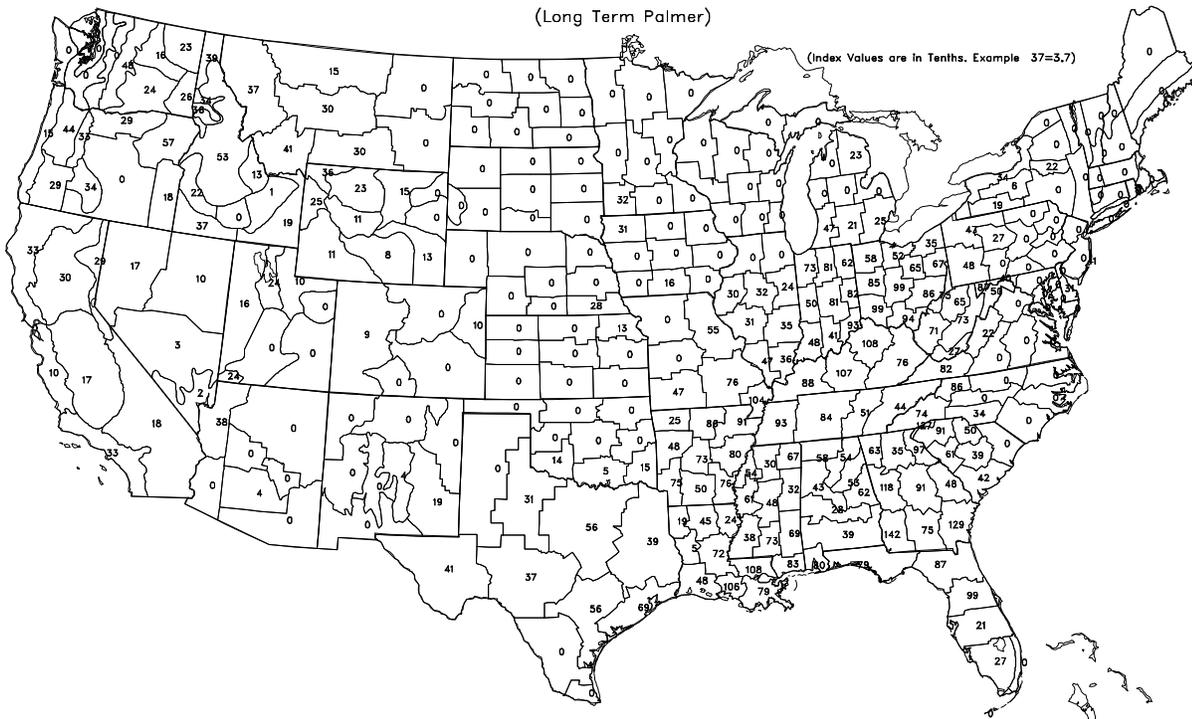
Compiled by USDA/OCE/WAOB's Stoneville Field Office.

* Based on 1964-93 normals.

x Based on 1961-90 normals.

Delta Weather and Crop Summary: Early in the week, a strong cold front swept across the area, bringing locally heavy rainfall and halting fieldwork. The rain adversely affected cotton in the open-boll stage of development. In addition, midweek temperatures fell into the lower 40's degrees F, slowing the accumulation of much-needed growing degree days for late-planted cotton.

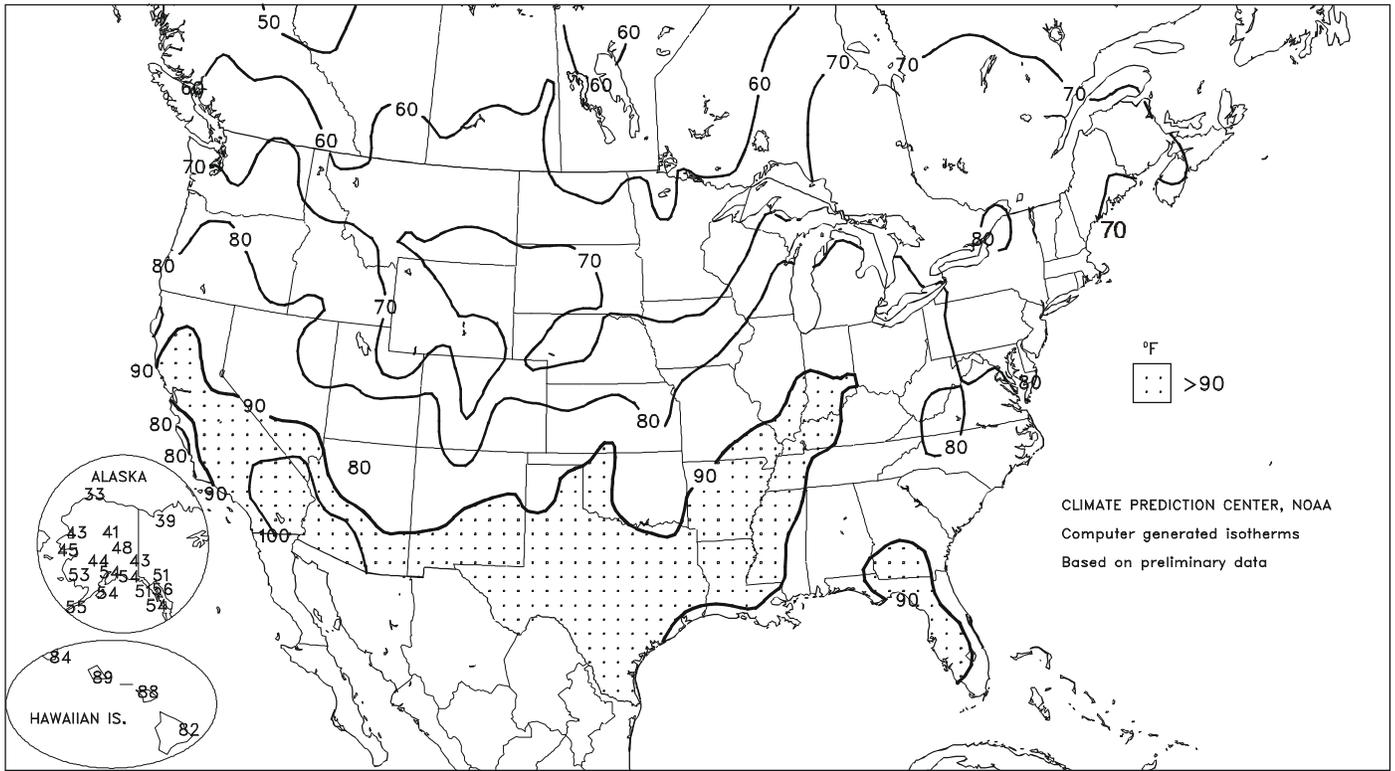
Additional Precipitation Needed to Bring Index Near Zero
OCT 2, 1999
(Long Term Palmer)



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

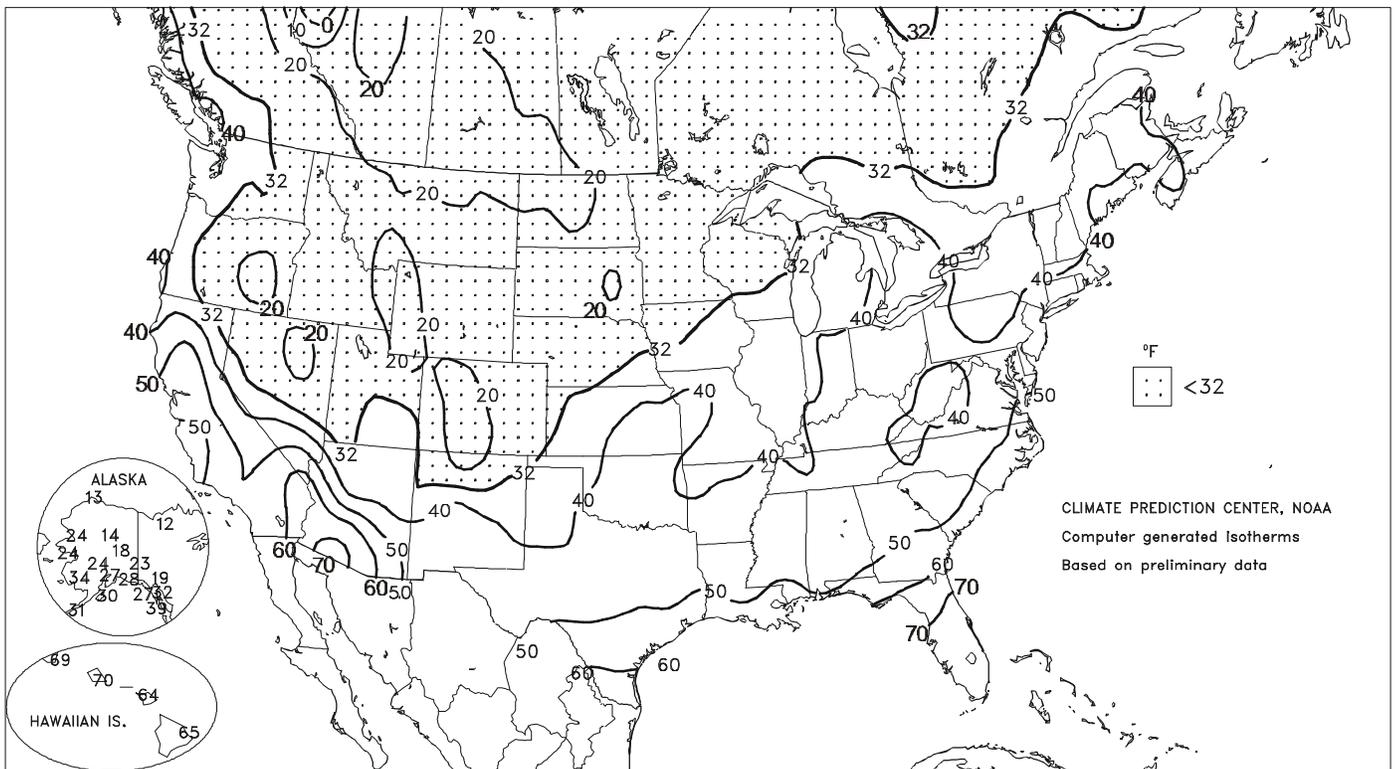
Extreme Maximum Temperature (°F)

SEP 26 - OCT 2, 1999

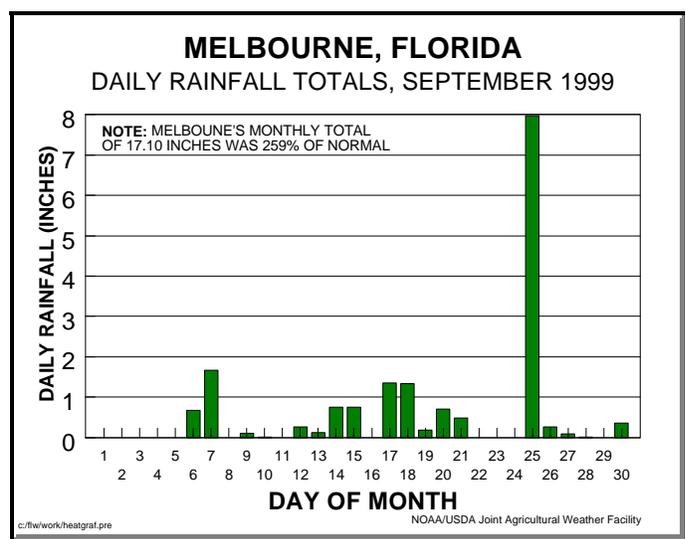
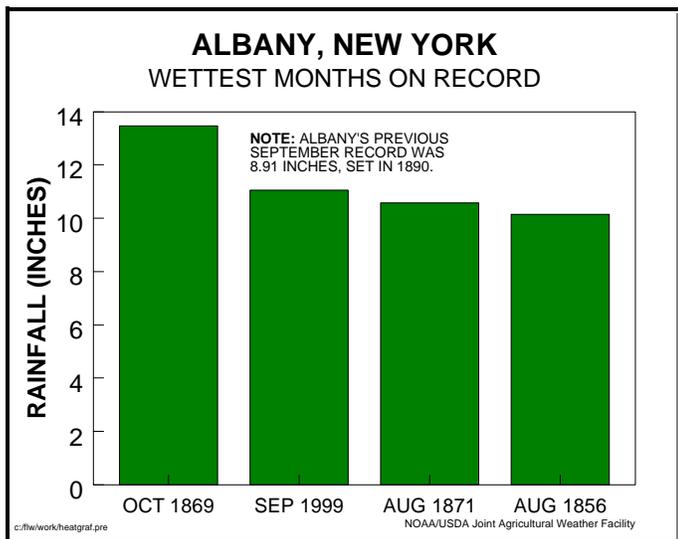
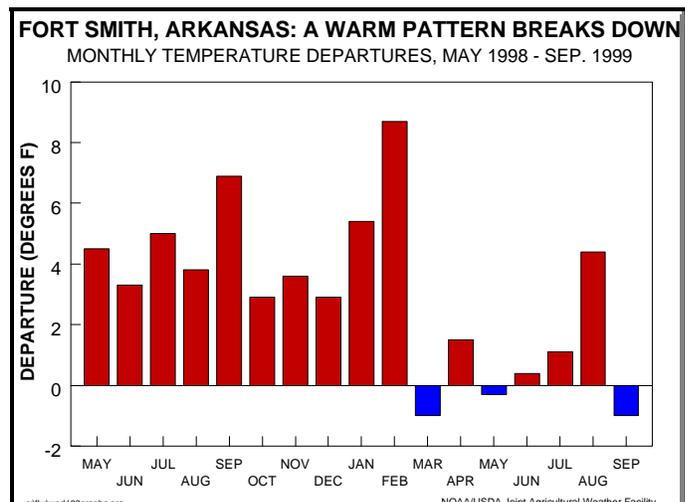
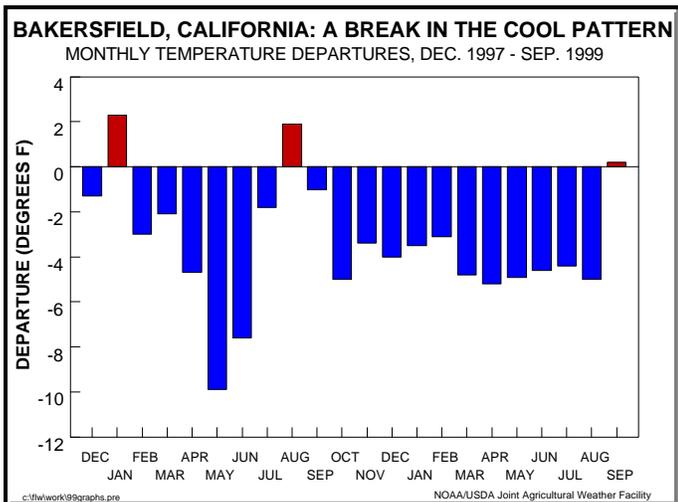
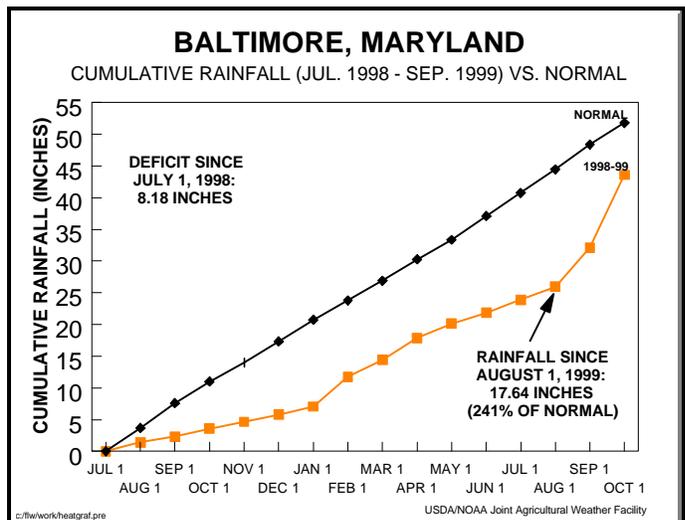
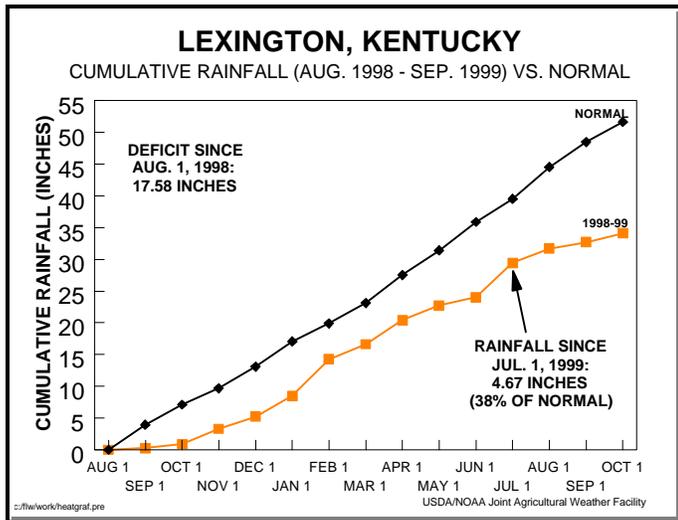


Extreme Minimum Temperature (°F)

SEP 26 - OCT 2, 1999



September Weather: Selected Graphs



Selected September Weather Records

Wettest Month (Inches) on Record

Location	Total	Normal	Previous Record/Year
Wilmington, NC	23.41	5.04	21.12 in July 1886
Raleigh, NC	21.79	3.19	16.65 in September 1996
Philadelphia, PA	13.07	3.42	12.10 in August 1911
Wilmington, DE	12.68	3.43	12.63 in July 1989

Record-High September Rainfall (Inches)

Location	Total	Normal	Previous Record/Year
Wilmington, NC	23.41	5.04	20.10 in 1887
Raleigh, NC	21.79	3.19	16.65 in 1996
Philadelphia, PA	13.07	3.42	12.09 in 1882
Wilmington, DE	12.68	3.43	9.53 in 1960
Williamsport, PA	12.60	3.39	10.02 in 1975
Milton, MA	11.90	3.82	11.04 in 1933
Albany, NY	11.06	2.95	8.91 in 1890
Wichita, KS	10.69	3.49	10.58 in 1945
Burlington, VT	10.25	3.30	8.18 in 1945
Bangor, ME	9.88	3.42	9.03 in 1954
Caribou, ME	8.81	3.45	8.14 in 1954
St. Johnsbury, VT	8.59	3.10	not available

Wettest Month (Inches) Since...

Location	Total	Normal	Wettest Month Since...
Albany, NY	11.06	2.95	13.48 in October 1869
Baltimore, MD	11.50	3.41	12.41 in September 1934
Burlington, VT	10.25	3.30	11.54 in August 1955
Williamsport, PA	12.60	3.39	16.80 in June 1972
Washington, DC	10.27	3.31	12.36 in September 1975
Caribou, ME	8.81	3.45	12.09 in August 1981
Bangor, ME	9.88	3.42	11.61 in November 1983

Record-Low September Rainfall (Inches)

Location	Total	Normal	Previous Record/Year
Boise, ID	0.00	0.80	0.00 in 1987
Lewiston, ID	trace	0.78	trace in 1975
Spokane, WA	trace	0.73	trace in 1990
Tupelo, MS	0.05	3.60	0.06 in 1998

Driest September (Inches) Since...

Location	Total	Normal	Driest September Since...
Evansville, IN	0.39	2.97	0.25 in 1928

(Continued from front cover)

below the freezing mark (32°F) north and west of a line from **northwestern Kansas** to **central Wisconsin**, ending the growing season slightly ahead of schedule and burning back emerging winter wheat, but having few adverse effects on mature or nearly mature summer crops. Late-week temperatures fell below 20°F in portions of **Montana** and the **Dakotas**. Light rain and wet snow dampened portions of the **northern Plains** and **upper Midwest** toward week's end.

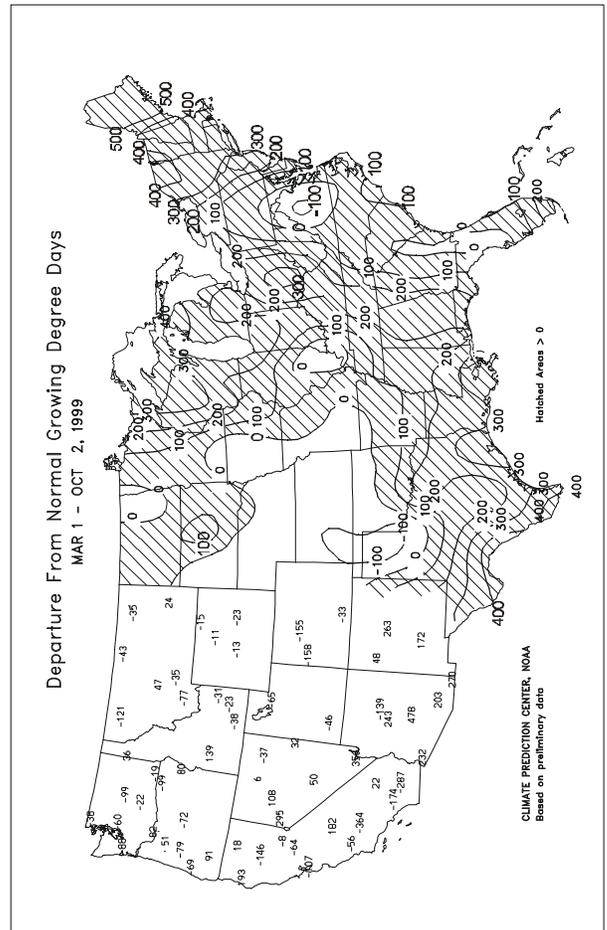
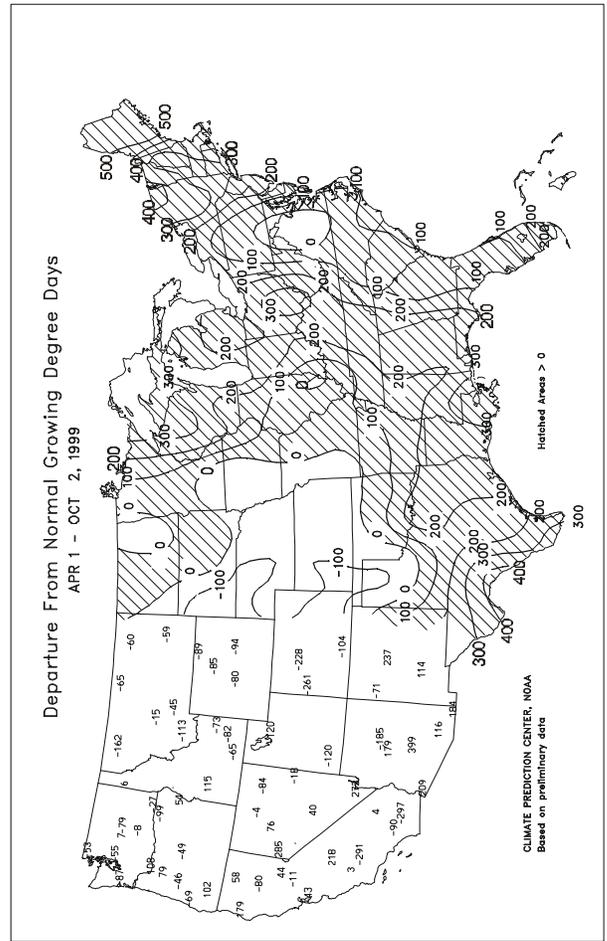
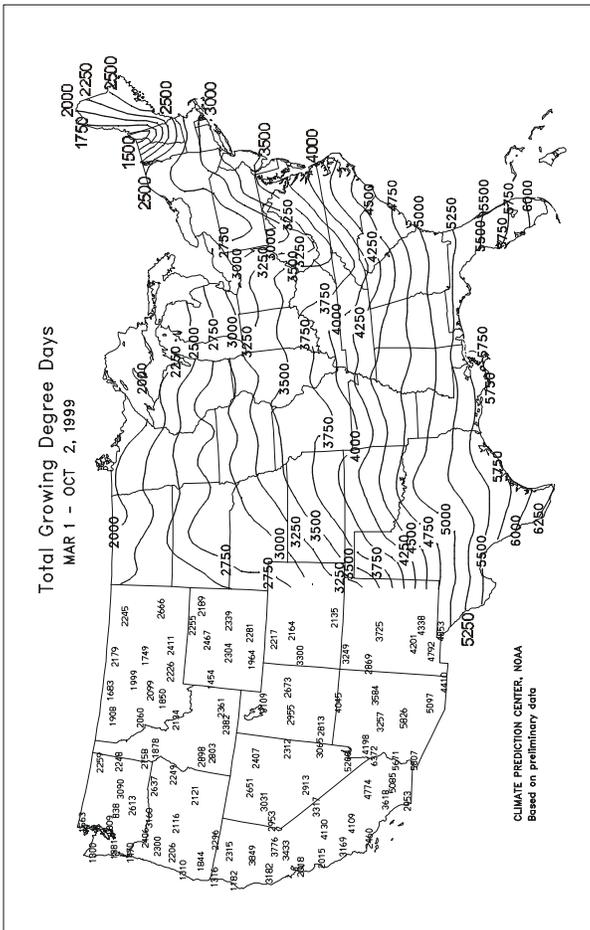
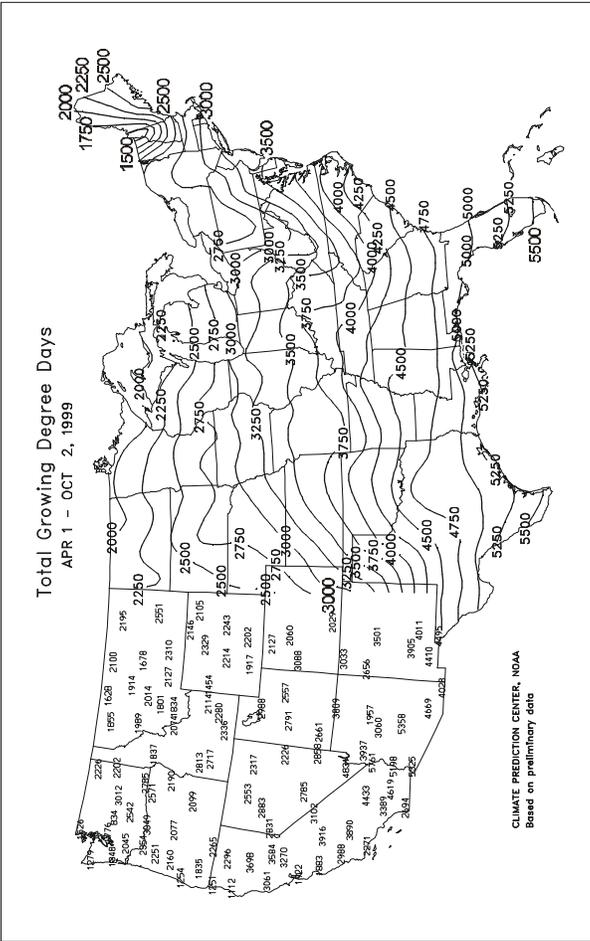
Two cool outbreaks resulted in more than 70 daily-record lows, mostly in the **Plains** and **Northwest**. On Monday, lows dipped to 28°F in **Spokane, WA** and 21°F in **Redmond, OR**. The following day in **Oregon**, **Eugene's** low of 31°F eclipsed their previous September record (32°F on September 29, 1945). In **Colorado**, September records were established on Wednesday in **Pueblo** (21°F) and **Alamosa** (15°F), shattering records that had stood since 1985.

Meanwhile, record warmth developed across **southern California** due to an off-shore flow. **Long Beach** posted a daily record of 104°F on Wednesday. Consecutive daily-record highs were noted on September 29-30 in locations such as **Vista** (105 and 100°F) and **Chula Vista** (96°F both days). Earlier in the week (on Monday), northerly winds in **California's Sacramento Valley** gusted to 41 mph in **Red Bluff** and 39 mph in **Chico**.

Cool weather re-intensified across the **Plains, upper Midwest**, and **Northwest** toward week's end. On Friday, **Rochester, MN** logged their first of three (43, 45, and 43°F) record-low maximum temperatures. A day later, lows plunged to 15°F

in **Huron, SD**, 30°F in **Grand Island, NE**, and 36°F in **Amarillo, TX**. **Huron's** temperature represented their earliest autumn occurrence of a 15°F reading. October 2 marked the first of two consecutive daily-record lows in locations such as **LaGrande, OR** (25°F both days) and **Glasgow, MT** (19 and 17°F). Rain and wet snow preceded the arrival of the second cool surge. With a 0.3-inch snowfall on October 1, **LaCrosse, WI** reported their earliest measurable total on record. Their previous earliest accumulation had been October 13, 1959. In **South Dakota**, storm-total snowfall reached 4.8 inches in **Huron** and 2.7 inches in **Sioux Falls**. **Sioux Falls'** snow, which all fell on Friday, represented their earliest 1-inch accumulation.

Earlier in the week, extremely heavy rain erupted across the **east-central Plains** before spreading northeastward to near **Lake Michigan**. In **Kansas**, **Wichita's** total of 7.93 inches on September 26-27 was their second-greatest 24-hour sum, behind only 7.99 inches on September 6-7, 1911. Most of the rain (7.65 inches) fell in less than 10 hours, propelling **Wichita** to their wettest September (10.69 inches, or 306 percent of normal). Farther north, September rainfall reached 4.41 inches (110 percent of normal) in **Moline, IL**, 3.92 inches of which fell on September 27-28. Meanwhile, more than 5 inches of rain soaked **Raleigh-Durham, NC** during the week, boosting their monthly sum to 21.79 inches (683 percent of normal). **Raleigh-Durham's** previous wettest month on record was September 1996, when Hurricane Fran lifted their monthly total to 16.65 inches. In contrast, several locations in the **Northwest** and **interior Southeast** concluded their driest September on record, including **Boise, ID** (none), **Spokane, WA** (a trace), and **Tupelo, MS** (0.05 inch).



National Weather Data for Selected Cities

Weather Data for the Week Ending October 2, 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 Sep 1	PCT. NORMAL SINCE Sep 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	82	58	88	45	70	1	0.49	-0.31	0.47	0.66	16	38.57	91	89	43	0	0	3	0
	HUNTSVILLE	81	55	87	42	68	1	0.36	-0.51	0.30	0.92	21	38.55	89	94	43	0	0	3	0
	MOBILE	84	60	89	50	72	-2	0.50	-0.54	0.44	4.41	72	41.95	81	98	59	0	0	2	0
	MONTGOMERY	83	59	87	44	71	-1	0.13	-0.66	0.13	1.38	32	34.40	82	93	52	0	0	1	0
AK	ANCHORAGE	49	37	54	27	43	0	1.23	0.65	0.55	3.98	141	13.96	118	93	59	0	1	5	1
	BARROW	30	24	33	13	27	3	0.07	-0.04	0.04	0.41	66	3.38	95	88	63	0	7	4	0
	FAIRBANKS	41	26	48	18	33	-4	0.55	0.38	0.51	1.62	162	8.43	100	86	52	0	7	3	1
	JUNEAU	49	41	56	32	45	-2	1.69	-0.07	0.70	11.14	154	50.40	134	100	75	0	1	6	1
	KODIAK	52	39	54	30	46	0	0.25	-1.46	0.25	12.24	164	52.69	110	93	59	0	3	1	0
	NOME	40	31	45	24	36	-1	0.77	0.31	0.51	4.23	167	13.81	117	91	61	0	5	4	1
AZ	FLAGSTAFF	71	37	77	30	54	1	0.00	-0.41	0.00	4.55	213	16.19	96	85	28	0	2	0	0
	PHOENIX	98	73	100	69	86	4	0.00	-0.18	0.00	1.31	144	6.65	122	42	15	7	0	0	0
	TUCSON	95	65	97	64	80	4	0.00	-0.32	0.00	0.97	55	10.02	108	47	13	7	0	0	0
	YUMA	102	75	104	69	88	5	0.00	-0.06	0.00	0.00	0	4.11	186	42	23	7	0	0	0
AR	FORT SMITH	81	52	91	39	66	-3	0.00	-0.79	0.00	4.04	117	34.81	114	91	33	1	0	0	0
	LITTLE ROCK	84	55	94	44	70	0	0.05	-0.86	0.05	1.09	25	22.97	62	87	35	2	0	1	0
CA	BAKERSFIELD	93	63	98	61	78	5	0.00	-0.05	0.00	0.08	47	6.15	150	48	18	6	0	0	0
	EUREKA	61	44	70	42	52	-4	0.00	-0.31	0.00	0.05	5	27.82	124	91	66	0	0	0	0
	FRESNO	93	62	97	60	78	7	0.00	-0.07	0.00	0.00	0	6.29	87	66	19	6	0	0	0
	LOS ANGELES	74	60	87	49	67	-2	0.01	-0.04	0.01	0.00	0	7.40	90	87	51	0	0	1	0
	REDDING	90	60	93	52	75	5	0.00	-0.29	0.00	0.00	0	17.16	84	45	13	4	0	0	0
	SACRAMENTO	90	58	95	54	74	5	0.00	-0.13	0.00	0.00	0	9.04	81	72	19	5	0	0	0
	SAN DIEGO	75	61	86	59	68	-2	0.01	-0.04	0.01	0.03	13	5.25	80	96	63	0	0	1	0
	SAN FRANCISCO	81	56	90	51	69	5	0.00	-0.11	0.00	0.24	104	14.65	117	83	35	1	0	0	0
CO	ALAMOSA	71	25	80	15	48	-3	0.00	-0.19	0.00	1.09	116	7.82	130	87	12	0	5	0	0
	CO SPRINGS	61	35	81	26	48	-8	0.40	0.19	0.18	0.52	37	23.65	163	84	29	0	3	2	0
	DENVER	62	33	77	29	48	-10	0.65	0.39	0.53	1.18	90	19.66	151	88	36	0	4	2	1
	GRAND JUNCTION	73	38	85	32	55	-7	0.00	-0.20	0.00	1.01	113	7.98	124	46	11	0	1	0	0
	PUEBLO	69	33	90	21	51	-10	0.01	-0.13	0.01	0.31	33	13.74	140	79	24	1	5	1	0
CT	BRIDGEPORT	70	55	73	48	63	1	0.51	-0.19	0.51	6.89	211	32.67	104	89	56	0	0	1	1
	HARTFORD	72	48	77	42	60	2	0.74	-0.11	0.73	11.22	281	33.01	100	99	54	0	0	2	1
DC	WASHINGTON	73	59	79	50	66	0	1.73	1.02	1.20	10.27	293	34.74	118	93	64	0	0	3	1
DE	WILMINGTON	73	56	78	45	65	2	0.48	-0.26	0.45	12.68	348	38.93	124	94	58	0	0	2	0
FL	DAYTONA BEACH	85	75	87	73	80	3	1.33	0.04	0.35	7.40	111	33.03	85	93	70	0	0	3	1
	JACKSONVILLE	84	69	89	63	76	1	3.09	1.87	2.01	13.00	177	37.98	87	100	70	0	0	3	2
	KEY WEST	87	79	88	75	83	1	2.37	1.10	0.92	8.64	139	31.80	104	89	71	0	0	4	3
	MIAMI	87	76	89	75	82	1	0.62	-1.01	0.40	7.41	92	46.23	100	95	66	0	0	3	0
	ORLANDO	88	74	91	73	81	2	0.30	-0.74	0.28	6.40	102	39.80	96	98	61	3	0	2	0
	PENSACOLA	84	65	90	55	74	-1	0.03	-1.04	0.01	0.76	14	33.85	67	93	56	1	0	3	0
	TALLAHASSEE	85	67	92	57	76	1	0.43	-0.54	0.39	5.82	100	43.56	80	97	56	2	0	2	0
	TAMPA	89	75	92	74	82	3	0.06	-0.90	0.03	6.05	98	29.12	76	98	61	4	0	2	0
	WEST PALM BEACH	88	78	89	74	83	2	0.29	-1.62	0.16	5.06	56	40.63	86	90	66	0	0	2	0
GA	ATHENS	78	58	84	49	68	0	1.51	0.75	0.67	3.29	82	34.38	88	96	58	0	0	4	2
	ATLANTA	76	58	82	49	67	-1	1.82	1.08	0.92	4.19	116	33.86	85	91	55	0	0	4	1
	AUGUSTA	80	59	85	46	70	0	3.25	2.61	1.51	5.43	169	33.05	91	99	59	0	0	4	3
	COLUMBUS	82	62	87	49	72	0	1.03	0.40	0.79	1.16	34	22.72	56	89	48	0	0	3	1
	MACON	82	59	89	46	70	-1	1.28	0.72	0.91	3.34	114	29.80	84	98	58	0	0	3	1
	SAVANNAH	82	65	88	53	74	1	3.76	3.02	1.50	6.52	140	45.30	108	98	63	0	0	4	3
HI	HILO	80	67	82	65	74	-2	1.06	-0.88	0.35	6.85	76	92.18	99	95	68	0	0	6	0
	HONOLULU	87	71	89	70	79	-1	0.02	-0.30	0.02	0.20	22	7.79	60	84	50	0	0	1	0
	KAHULUI	86	68	88	64	77	-1	0.03	-0.10	0.03	0.06	16	6.15	44	83	49	0	0	1	0
	LIHUE	84	73	84	69	78	0	0.50	-0.24	0.24	2.00	77	21.63	77	83	62	0	0	5	0
ID	BOISE	67	39	80	31	53	-5	0.00	-0.18	0.00	0.00	0	7.57	89	54	17	0	1	0	0
	LEWISTON	68	42	80	36	55	-4	0.00	-0.19	0.00	0.00	0	7.67	83	58	21	0	0	0	0
	POCATELLO	63	31	77	22	47	-7	0.00	-0.21	0.00	0.02	2	10.81	120	64	17	0	5	0	0
IL	CHICAGO/O'HARE	68	48	86	36	58	-2	2.87	2.14	1.97	3.33	83	32.66	116	88	46	0	0	4	2
	MOLINE	65	46	84	38	56	-4	4.10	3.26	2.01	4.45	105	26.92	85	91	51	0	0	4	2
	PEORIA	69	47	85	39	58	-3	1.06	0.25	0.65	1.66	41	26.66	93	89	45	0	0	4	1
	ROCKFORD	64	45	83	36	55	-4	3.44	2.65	2.09	5.33	133	33.14	114	91	55	0	0	5	2
	SPRINGFIELD	73	47	88	35	60	-3	1.93	1.22	1.77	2.53	72	24.94	90	89	40	0	0	3	1
IN	EVANSVILLE	80	49	92	41	65	1	0.22	-0.45	0.22	0.39	12	29.91	90	91	34	1	0	1	0
	FORT WAYNE	76	50	89	42	63	3	0.91	0.34	0.88	1.03	36	22.45	84	89	40	0	0	2	1
	INDIANAPOLIS	78	51	90	38	64	3	0.69	0.08	0.67	0.75	25	26.29	85	83	36	1	0	2	1
	SOUTH BEND	71	50	87	42	61	1	0.58	-0.20	0.37	1.28	33	24.67	83	86	40	0	0	4	0
IA	BURLINGTON	69	49	89	41	59	-2	3.95	3.09	1.56	4.99	115	29.43	101	79	42	0	0	4	2
	CEDAR RAPIDS	62	43	77	31	53	-6	1.29	0.53	0.62	1.38	34	19.86	71	92	47	0	1	5	1
	DES MOINES	64	45	73	37	55	-6	1.24	0.52	0.68	2.33	62	25.44	92	83	40	0	0	3	2
	DUBUQUE	61	44	79	35	53	-5	1.31	0.42	0.68	1.76	36	29.44	95	92	51	0	0	5	1
	SIOUX CITY	64	38	71	28	51	-8	0.19	-0.40	0.15	0.71	23	27.55	124	87	31	0	3	2	0
	WATERLOO	64	43	74	33	53	-4	0.94	0.20	0.50	1.21	33	36.19	128	84	35	0	0	4	1
KS	CONCORDIA	66	45	78	36	56	-7	0.71	0.11	0.31	1.14	36	24.30	97	90	41	0	0	3	0
	DODGE CITY	67	43	86	36	55	-9	0.07	-0.30	0.07	2.05	102	19.26	102	87	42	0	0	1	0
	GOODLAND	61	37	78	30	49	-10	0.70	0.40	0.43	0.84	51	19.78	122	86	41	0	2	2	0
	TOPEKA	66	47	79	41	57	-6	3.34	2.51	1.73	4.50	112	30.83	106	94	50	0	0	4	2

Based on 1

Weather Data for the Week Ending October 2, 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 Sep 1	PCT. NORMAL SINCE Sep 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	68	49	84	43	58	-7	2.79	2.07	2.24	10.69	291	40.63	165	91	54	0	0	2	2
KY JACKSON	77	54	86	42	65	2	0.84	0.06	0.84	1.13	29	31.37	82	87	41	0	0	1	1
KY LEXINGTON	78	53	88	43	66	2	0.89	0.24	0.69	1.39	41	25.88	74	88	44	0	0	3	1
KY LOUISVILLE	80	55	89	46	68	3	1.63	0.96	1.37	0.53	16	26.59	77	84	40	0	0	2	1
KY PADUCAH	82	49	92	39	66	0	0.32	-0.46	0.32	0.66	17	31.66	84	86	28	2	0	1	0
LA BATON ROUGE	83	59	92	48	71	-3	2.43	1.48	1.84	4.08	80	33.54	70	98	48	2	0	2	2
LA LAKE CHARLES	84	62	90	53	73	-1	1.05	-0.12	0.91	1.97	33	31.74	76	100	49	2	0	3	1
LA NEW ORLEANS	83	64	89	54	74	-1	0.62	-0.38	0.17	2.87	50	36.86	75	93	57	0	0	3	0
LA SHREVEPORT	83	58	91	47	71	-2	0.03	-0.76	0.03	4.90	147	46.93	138	93	36	1	0	1	0
ME CARIBOU	65	41	73	36	53	4	0.26	-0.47	0.21	8.64	237	28.96	108	98	57	0	0	3	0
ME PORTLAND	65	44	68	38	54	0	0.44	-0.33	0.43	8.37	253	28.58	92	95	49	0	0	2	0
MD BALTIMORE	73	56	76	45	65	1	1.20	0.48	0.73	11.50	319	37.12	119	96	59	0	0	4	1
MA BOSTON	68	53	73	50	61	0	0.45	-0.26	0.45	9.86	302	30.25	100	89	57	0	0	1	0
MA WORCESTER	66	49	70	43	58	2	0.03	-0.93	0.01	8.83	206	31.22	89	93	57	0	0	3	0
MI ALPENA	63	46	84	37	55	2	2.18	1.57	1.09	2.54	78	16.99	75	94	57	0	0	5	2
MI GRAND RAPIDS	67	49	85	36	58	2	2.65	1.79	1.96	3.23	73	27.72	102	91	54	0	0	4	1
MI HOUGHTON LAKE	61	46	80	32	53	1	2.22	1.55	1.11	3.43	96	25.24	114	95	62	0	1	5	2
MI LANSING	71	48	86	34	59	3	1.99	1.30	1.02	2.06	55	26.98	114	94	58	0	0	5	2
MI MARQUETTE	51	33	59	27	42	-7	0.11	-0.54	0.11	3.09	71	30.35	115	92	56	0	3	1	0
MI MUSKEGON	66	48	80	32	57	0	1.55	0.75	0.94	2.59	63	26.13	110	93	54	0	1	4	1
MN DULUTH	54	37	65	28	46	-4	1.18	0.41	1.18	5.80	144	29.82	121	90	48	0	1	1	1
MN INT'L FALLS	52	34	62	26	43	-6	0.46	-0.18	0.31	5.93	179	29.06	141	97	56	0	3	5	0
MN MINNEAPOLIS	60	43	72	33	51	-4	0.21	-0.35	0.13	2.86	100	25.82	109	83	38	0	0	2	0
MN ROCHESTER	57	40	67	32	48	-6	0.14	-0.55	0.01	0.74	20	30.83	124	92	43	0	2	3	0
MS ST. CLOUD	57	35	65	26	46	-6	0.29	-0.34	0.28	2.62	78	24.50	105	91	41	0	2	2	0
MS JACKSON	83	56	92	45	70	-2	1.55	0.79	1.22	2.48	66	33.91	82	95	44	1	0	2	1
MS MERIDIAN	82	53	88	42	67	-3	1.45	0.69	1.23	2.36	64	30.59	71	98	46	0	0	3	1
MS TUPELO	83	54	90	44	68	-1	0.05	-0.77	0.05	0.05	1	43.14	104	93	39	2	0	1	0
MO COLUMBIA	69	49	86	38	59	-4	1.64	0.78	1.09	1.93	47	22.56	74	93	49	0	0	4	2
MO KANSAS CITY	66	48	78	42	57	-6	3.43	2.39	2.24	5.52	108	36.28	117	92	55	0	0	4	2
MO SAINT LOUIS	75	53	89	43	64	-1	0.73	0.05	0.48	1.26	38	30.17	105	85	44	0	0	3	0
MO SPRINGFIELD	74	49	85	37	62	-3	0.29	-0.71	0.26	1.80	37	31.72	97	89	44	0	0	2	0
MT BILLINGS	50	34	72	30	42	-12	0.24	-0.08	0.08	2.78	190	13.38	107	78	39	0	4	5	0
MT BUTTE	54	26	71	22	40	-7	0.06	-0.18	0.02	0.45	34	11.91	113	83	26	0	7	2	0
MT GLASGOW	52	33	68	24	42	-10	0.01	-0.18	0.01	1.07	101	14.46	149	85	28	0	4	1	0
MT GREAT FALLS	46	31	64	19	39	-14	0.75	0.51	0.44	1.97	150	11.99	92	87	44	0	6	4	1
MT KALISPELL	53	26	62	22	40	-8	0.14	-0.10	0.09	0.29	22	11.83	94	89	36	0	7	2	0
MT MILES CITY	53	36	69	29	44	-10	0.22	-0.05	0.07	1.05	78	12.65	105	87	36	0	2	2	0
MT MISSOULA	56	29	65	25	42	-8	0.09	-0.12	0.08	0.42	36	9.81	91	89	34	0	6	2	0
NE GRAND ISLAND	66	40	74	30	53	-6	0.09	-0.43	0.05	0.56	19	24.04	110	94	33	0	1	2	0
NE LINCOLN	69	44	78	35	56	-4	0.15	-0.54	0.11	1.22	33	26.37	109	92	33	0	0	3	0
NE NORFOLK	63	40	70	28	51	-7	0.10	-0.40	0.01	0.67	26	23.79	108	85	31	0	1	2	0
NE NORTH PLATTE	60	33	69	25	46	-10	0.23	-0.09	0.08	1.20	72	19.52	113	92	40	0	4	2	0
NE OMAHA	67	44	73	34	56	-5	0.19	-0.57	0.12	1.64	42	30.69	121	95	40	0	0	3	0
NE SCOTTSBLUFF	57	32	75	25	44	-12	0.00	-0.24	0.00	2.39	206	16.50	124	86	35	0	4	0	0
NE VALENTINE	55	30	70	17	43	-13	0.25	-0.03	0.05	3.39	211	19.64	120	90	40	0	5	1	0
NV ELY	71	29	72	11	50	-2	0.00	-0.24	0.00	0.55	51	6.48	82	52	11	0	5	0	0
NV LAS VEGAS	91	64	99	58	78	2	0.00	-0.05	0.00	0.35	117	4.23	137	29	13	5	0	0	0
NV RENO	78	43	87	39	61	5	0.00	-0.07	0.00	0.07	19	4.78	90	53	13	0	0	0	0
NV WINNEMUCCA	70	29	83	25	50	-5	0.02	-0.09	0.02	0.12	29	5.52	94	49	17	0	6	1	0
NH CONCORD	69	43	75	35	56	2	0.74	0.08	0.73	9.13	305	34.16	129	98	53	0	0	2	1
NJ NEWARK	73	57	77	48	65	1	0.59	-0.17	0.57	9.38	243	35.77	106	91	57	0	0	2	1
NM ALBUQUERQUE	79	50	87	42	65	1	0.00	-0.20	0.00	0.54	51	8.01	113	52	14	0	0	0	0
NY ALBANY	71	48	77	39	60	3	1.18	0.53	1.18	11.06	352	30.31	111	94	54	0	0	1	1
NY BINGHAMTON	66	49	70	40	57	2	0.93	0.21	0.89	6.95	197	27.77	99	95	59	0	0	2	1
NY BUFFALO	73	53	82	44	63	5	1.02	0.29	0.87	3.95	107	26.01	92	86	50	0	0	2	1
NY ROCHESTER	73	51	81	41	62	5	0.82	0.21	0.66	3.41	109	26.65	111	92	52	0	0	2	1
NY SYRACUSE	72	49	80	37	61	4	0.63	-0.20	0.63	5.35	133	23.83	82	91	52	0	0	1	1
NC ASHEVILLE	72	51	78	38	62	0	2.23	1.38	1.04	2.20	54	32.67	88	100	60	0	0	4	2
NC CHARLOTTE	76	57	82	44	67	-1	1.97	1.18	0.67	4.26	115	27.44	83	99	61	0	0	4	2
NC GREENSBORO	74	57	79	46	66	0	2.55	1.72	0.96	8.62	228	38.41	116	97	63	0	0	4	3
NC HATTERAS	79	67	84	56	71	3	0.06	-1.10	0.04	5.85	105	40.17	96	85	60	0	0	3	0
NC RALEIGH	76	58	83	45	67	1	6.78	6.10	2.26	21.80	645	48.40	149	100	65	0	0	5	4
NC WILMINGTON	81	63	84	50	72	1	1.82	0.94	1.31	23.41	445	66.85	148	95	64	0	0	5	1
ND BISMARCK	54	30	68	18	42	-10	0.02	-0.28	0.02	1.31	83	26.43	193	89	42	0	4	1	0
ND DICKINSON	51	31	66	24	41	-11	0.01	-0.33	0.01	2.62	149	15.85	110	88	39	0	4	1	0
ND FARGO	54	33	63	22	44	-9	0.15	-0.29	0.15	6.50	411	17.34	105	91	44	0	3	1	0
ND GRAND FORKS	53	32	62	19	43	-9	0.55	0.11	0.28	2.55	109	15.91	100	91	46	0	4	2	0
ND JAMESTOWN	52	32	62	21	42	-10	0.07	-0.26	0.00	2.67	144	21.92	146	91	46	0	4	1	0
ND WILLISTON	53	28	64	15	41	-11	0.01	-0.26	0.01	1.58	112	14.62	122	87	35	0	6	1	0
OH AKRON-CANTON	74	51	83	43	63	4	2.46	1.79	2.28	3.63	104	28.22	99	93	54	0	0	3	1
OH CINCINNATI	78	51	89	40	64	2	0.89	0.24	0.79	0.86	28	25.19	79	87	40	0	0	3	1
OH CLEVELAND	76	55	86	47	65	6	1.42	0.72	1.42	1.93	53	23.24	83	83	44	0	0	1	1
OH COLUMBUS	78	54	88	46	66	5	1.47	0.90	1.38	1.91	62	22.35	74	91	38	0	0	2	1
OH DAYTON	77	53	88	45	65	4	0.93	0.39	0.89	1.05	39	23.68	84	80	36	0	0	3	1
OH MANSFIELD	75	52	85	43	63	4	1.15	0.51	1.14	1.63	46	24.80	80	89	44	0	0	2	1

Weather Data for the Week Ending October 2, 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 Sep 1	PCT. NORMAL SINCE Sep 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	
OK TOLEDO	76	51	88	44	63	5	0.98	0.42	0.98	1.50	50	22.29	88	89	40	0	0	1	1	
OK YOUNGSTOWN	75	51	83	42	63	5	2.91	2.19	2.87	4.28	117	33.80	117	90	43	0	0	2	1	
OK OKLAHOMA CITY	73	52	86	42	63	-6	0.05	-0.84	0.05	4.88	119	34.47	128	87	49	0	0	1	0	
OR TULSA	73	52	82	46	62	-6	0.71	-0.34	0.55	9.69	195	40.81	128	93	50	0	0	2	1	
OR ASTORIA	65	41	73	38	53	-3	0.03	-0.87	0.01	0.28	9	56.28	140	98	53	0	0	3	0	
OR BURNS	66	22	80	17	44	-6	0.00	-0.14	0.00	0.00	0	6.81	99	67	15	0	7	0	0	
OR EUGENE	73	35	80	32	54	-5	0.00	-0.47	0.00	0.01	1	28.62	98	92	25	0	1	0	0	
OR MEDFORD	82	40	88	35	61	0	0.00	-0.24	0.00	0.00	0	12.97	119	79	17	0	0	0	0	
OR PENDLETON	68	39	79	29	53	-5	0.00	-0.15	0.00	0.01	2	6.74	84	61	21	0	1	0	0	
OR PORTLAND	71	44	78	40	58	-2	0.10	-0.36	0.00	0.12	6	27.46	123	91	31	0	0	1	0	
OR SALEM	73	40	80	35	56	-1	0.00	-0.45	0.00	0.09	5	32.43	140	91	27	0	0	0	0	
PA ALLENTOWN	72	51	76	39	61	2	1.52	0.74	1.38	11.57	280	29.18	87	95	52	0	0	3	1	
PA ERIE	74	55	84	48	65	5	3.39	2.43	3.15	5.15	111	23.72	78	85	51	0	0	2	1	
PA MIDDLETOWN	73	54	77	43	64	2	1.70	0.94	1.09	9.11	247	30.83	99	95	57	0	0	3	1	
PA PHILADELPHIA	75	58	79	48	67	3	0.85	0.16	0.84	13.07	364	41.91	130	93	56	0	0	2	1	
PA PITTSBURGH	76	51	83	42	64	5	0.87	0.26	0.87	1.97	63	29.90	104	92	42	0	0	1	1	
PA WILKES-BARRE	70	50	73	38	60	2	1.08	0.36	0.96	9.76	279	29.51	105	93	55	0	0	3	1	
PA WILLIAMSPORT	70	50	73	39	60	1	2.00	1.24	1.48	12.60	348	36.47	118	96	60	0	0	4	1	
RI PROVIDENCE	69	50	72	46	60	0	0.80	0.01	0.79	7.00	190	32.62	98	92	53	0	0	2	1	
SC BEAUFORT	80	65	85	54	72	-1	0.63	-0.20	0.41	2.94	57	27.45	63	97	68	0	0	4	0	
SC CHARLESTON	81	64	86	52	73	0	6.11	5.26	4.96	7.96	161	34.69	80	97	65	0	0	4	2	
SC COLUMBIA	79	60	85	45	69	-1	1.24	0.53	0.91	3.58	93	27.33	67	98	61	0	0	4	1	
SC GREENVILLE	76	58	81	47	67	0	1.84	0.91	0.88	3.04	72	27.65	70	93	59	0	0	4	2	
SD ABERDEEN	55	31	66	25	43	-11	0.11	-0.26	0.08	4.27	219	22.63	137	93	44	0	4	2	0	
SD HURON	58	30	69	15	44	-12	0.74	0.35	0.37	2.83	155	17.31	99	96	41	0	4	2	0	
SD RAPID CITY	53	32	73	26	43	-12	0.09	-0.19	0.08	1.10	84	18.63	128	86	37	0	4	2	0	
SD SIOUX FALLS	59	34	71	24	47	-9	0.26	-0.34	0.26	1.10	35	22.78	112	94	35	0	3	1	0	
TN BRISTOL	77	50	85	38	63	0	0.40	-0.30	0.25	1.09	32	27.23	85	96	45	0	0	2	0	
TN CHATTANOOGA	81	56	87	45	68	1	0.39	-0.49	0.30	0.62	14	38.20	94	93	44	0	0	2	0	
TN KNOXVILLE	78	54	86	42	66	1	0.60	-0.08	0.33	0.83	26	43.46	120	95	47	0	0	4	0	
TN MEMPHIS	83	58	94	47	70	1	0.68	-0.05	0.38	1.11	30	37.25	97	85	34	2	0	2	0	
TN NASHVILLE	80	54	89	43	67	-1	0.65	-0.05	0.57	1.97	54	34.09	94	94	45	0	0	2	1	
TX ABILENE	82	57	96	43	70	-2	0.02	-0.68	0.01	1.60	47	13.63	70	74	27	2	0	2	0	
TX AMARILLO	69	43	86	33	56	-9	0.02	-0.35	0.02	2.54	122	25.89	151	85	39	0	0	1	0	
TX AUSTIN	88	59	95	46	74	-3	0.46	-0.38	0.46	0.47	13	24.70	101	94	31	4	0	1	0	
TX BEAUMONT	84	63	90	55	73	-2	1.59	0.29	0.90	3.25	49	27.24	63	96	53	1	0	3	2	
TX BROWNSVILLE	88	68	92	62	78	-1	1.27	0.05	1.26	3.99	64	19.42	91	92	58	3	0	2	1	
TX CORPUS CHRISTI	86	66	92	60	76	-2	3.29	2.15	2.37	3.88	67	27.19	111	95	60	2	0	2	2	
TX DEL RIO	89	64	94	51	77	0	0.00	-0.67	0.00	0.00	0	14.96	102	79	33	4	0	0	0	
TX EL PASO	86	58	91	49	72	2	0.00	-0.32	0.00	1.94	109	7.36	102	56	24	3	0	0	0	
TX FORT WORTH	86	60	92	51	73	0	0.01	-0.84	0.01	2.30	63	18.98	72	78	33	2	0	1	0	
TX GALVESTON	82	70	87	64	76	-1	2.42	1.30	1.30	3.95	64	21.96	67	89	62	0	0	3	2	
TX HOUSTON	85	59	92	49	72	-3	1.08	-0.05	1.00	1.32	26	24.93	71	98	50	1	0	2	1	
TX LUBBOCK	74	48	93	38	61	-6	0.00	-0.56	0.00	3.27	118	18.82	120	77	34	1	0	0	0	
TX MIDLAND	83	57	96	45	70	0	0.00	-0.57	0.00	0.95	34	7.38	61	72	26	2	0	0	0	
TX SAN ANGELO	87	58	95	42	72	1	0.00	-0.76	0.00	0.76	21	12.74	78	77	28	2	0	0	0	
TX SAN ANTONIO	89	64	95	52	76	1	0.03	-0.78	0.03	0.06	2	15.18	63	85	30	4	0	1	0	
TX VICTORIA	87	63	94	54	75	-1	0.37	-0.83	0.33	3.78	64	23.81	80	96	44	3	0	2	0	
TX WACO	89	60	96	46	74	0	0.00	-0.89	0.00	0.51	14	13.70	56	81	31	4	0	0	0	
TX WICHITA FALLS	84	53	96	44	68	-2	0.00	-0.85	0.00	1.76	44	24.94	106	82	33	2	0	0	0	
UT SALT LAKE CITY	65	40	73	36	53	-7	0.00	-0.33	0.00	0.45	33	11.99	98	58	16	0	0	0	0	
VT BURLINGTON	70	47	77	39	59	5	0.48	-0.21	0.47	10.26	294	27.57	105	95	51	0	0	2	0	
VA LYNCHBURG	73	54	79	41	63	0	5.48	4.68	3.82	12.05	347	33.87	109	99	65	0	0	3	3	
VA NORFOLK	78	63	81	54	71	3	0.95	0.14	0.41	13.16	319	44.49	125	90	55	0	0	4	0	
VA RICHMOND	75	57	81	47	66	1	2.07	1.31	1.20	16.60	466	43.56	130	99	63	0	0	4	1	
VA ROANOKE	72	54	79	42	63	0	2.44	1.61	1.00	7.38	197	29.48	94	100	67	0	0	4	3	
VA WASH/DULLES	73	54	80	41	64	1	2.04	1.30	1.35	9.32	262	36.35	118	98	62	0	0	4	1	
WA OLYMPIA	66	34	72	30	50	-4	0.03	-0.64	0.02	0.14	6	40.16	133	96	33	0	2	2	0	
WA QUILLAYUTE	63	36	69	31	49	-5	0.08	-1.57	0.03	1.83	34	75.33	116	99	54	0	1	3	0	
WA SEATTLE-TACOMA	64	45	70	42	54	-3	0.00	-0.54	0.00	0.17	8	26.67	119	97	44	0	0	0	0	
WA SPOKANE	61	35	68	28	48	-6	0.00	-0.17	0.00	0.00	0	10.53	96	62	20	0	3	0	0	
WA YAKIMA	67	32	74	28	50	-6	0.00	-0.08	0.00	0.00	0	5.18	101	84	22	0	4	0	0	
WV BECKLEY	69	51	76	39	60	2	2.20	1.47	1.77	4.48	127	28.90	90	92	60	0	0	3	1	
WV CHARLESTON	78	50	86	40	64	1	0.63	-0.05	0.54	1.81	53	27.57	84	99	47	0	0	3	1	
WV ELKINS	74	43	82	32	58	1	1.55	0.76	0.89	2.80	71	26.09	74	99	43	0	1	4	1	
WV HUNTINGTON	77	51	86	41	64	1	0.60	-0.03	0.51	0.94	30	24.72	77	96	44	0	0	3	1	
WI EAU CLAIRE	59	41	67	28	50	-4	0.32	-0.44	0.08	1.11	27	26.48	99	89	39	0	1	3	0	
WI GREEN BAY	62	44	82	32	53	-2	1.07	0.38	0.46	1.52	42	22.69	98	93	51	0	1	5	0	
WI LA CROSSE	61	45	71	33	53	-4	0.00	-0.73	0.00	2.39	60	18.34	72	88	41	0	0	0	0	
WI MADISON	62	45	82	32	53	-2	1.82	1.18	0.59	1.90	54	29.59	119	93	53	0	1	5	2	
WI MILWAUKEE	66	50	87	39	58	1	3.56	2.87	2.09	4.25	119	33.61	130	87	47	0	0	4	2	
WI CASPER	51	32	69	27	42	-11	0.29	0.05	0.19	1.32	131	9.98	98	89	37	0	4	3	0	
WY CHEYENNE	50	31	67	26	40	-12	0.42	0.18	0.41	2.11	159	16.01	126	91	42	0	5	2	0	
WY LANDER	51	33	62	26	42	-11	0.82	0.54	0.40	2.01	172	13.78	130	89	41	0	3	2	0	
WY SHERIDAN	53	31	75	26	42	-10	0.72	0.40	0.29	3.23	223	12.62	106	88	43	0	6	4	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

September 27 - October 3, 1999

HIGHLIGHTS

Harvest progress accelerated in most areas east of the Rocky Mountains, as dry conditions prevailed in most areas. A narrow band of heavy rainfall extending from Kansas to the Great Lakes delayed harvest activity in parts of the Corn Belt. Harvest rapidly progressed in the Mississippi Delta, with only isolated rain delays. In the Atlantic Coastal Plains, a wet-weather pattern continued to limit harvest

progress. Winter wheat seeding was aided by favorably dry weather in most of the Great Plains, although some areas needed moisture to germinate recently planted fields. In the Pacific Northwest, growers delayed planting because of soil moisture shortages. Warm weather ripened crops in California, and the harvest pace accelerated due to favorably dry conditions.

Corn: Ninety-four percent of the acreage was mature, slightly behind last year's pace, but more than a week ahead of the 5-year average. Fields quickly ripened in the central Great Plains and northern Corn Belt. In Colorado and South Dakota, where more than one-fifth of the crop advanced to maturity, sub-freezing temperatures ended crop growth, but damage due to the cold weather was minimal. Nearly all of the crop was ripe in other areas of the Corn Belt. Harvest progress, at 29 percent, was equal to a year ago and 1 week ahead of normal. The harvest pace accelerated in most areas of the Corn Belt. Heavy rainfall halted harvest activity in an area extending from eastern Kansas to Lake Michigan. Harvest delays were especially lengthy in northern Missouri. Progress remained well ahead of normal in the eastern Corn Belt. In Illinois and Indiana, harvest progress was more than double the normal rate, while progress in Kentucky was more than 40 percentage points ahead of the 5-year average. Rain hindered progress in the Atlantic Coastal Plains.

Soybeans: Eighty-eight percent of the acreage was dropping leaves, slightly ahead of last year's 87-percent pace and 7 percentage points ahead of the average for this date. Below-normal temperatures promoted ripening in the central and western Corn Belt. Acreage dropping leaves advanced about 20 percentage points in Iowa, Missouri, and Nebraska. Thirty-two percent of the acreage was harvested, 6 percentage points behind last year's rapid pace, but ahead of the 26-percent average. The harvest pace accelerated in most areas of the Corn Belt, as rain delays were limited to northern Missouri and parts of eastern Iowa, northern Illinois, and scattered areas of Indiana and Michigan.

Cotton: Eighty-seven percent of the acreage was at or beyond the boll opening stage, slightly ahead of last year's 86-percent progress and 1 week ahead of the 5-year average. Warm daytime temperatures accelerated ripening in the southern Great Plains, North Carolina, and California. Harvest progressed to 28 percent complete, behind last year's 32 percent, but 5 percentage points ahead of the average for this date. Harvest rapidly progressed in the lower Mississippi Valley, as rain delays were isolated and brief. Growers in Arkansas picked nearly one-fourth of their cotton. Persistent rains and lingering wetness substantially limited harvest activity in the Atlantic Coastal Plains.

Winter Wheat: Winter wheat seeding advanced to 53 percent, ahead of last year's 44-percent and 4 percentage points ahead of the 5-year average. Sowing was aided by dry conditions in most areas of the Great Plains and eastern Corn Belt. Planted acreage nearly doubled in Kansas, despite soaking rains in the eastern third of the State and light precipitation in other areas of the State. Seeding accelerated in the Corn Belt, even though row crop harvesting remained the top priority for most growers. In Oregon, growers delayed planting due to dry soils. Twenty-six percent of the acreage was emerged, slightly ahead of last year and the average for this date. Precipitation, some in the form of snow, provided moisture for germinating seeds in Kansas and Colorado. Fields rapidly emerged in Nebraska and South Dakota, despite increasing moisture shortages. Irrigation water supplies were adequate in the Pacific Northwest and northern Rocky Mountains, but dryland fields were short of moisture.

Rice: Eighty-two percent of the crop was harvested, compared with last year's 80 percent and the 79-percent average. Harvest steadily progressed in Arkansas and Mississippi, even though rain temporarily delayed progress in some areas. In California, the harvest pace rapidly gained momentum as above-normal temperatures quickly ripened fields and dry weather aided progress.

Sorghum: Seventy-seven percent of the crop was mature, behind last year's 84 percent, but ahead of the 75-percent average. Fields rapidly matured in the southern Corn Belt, as hot weather briefly penetrated into the lower Ohio River Valley. In the northern Great Plains, plant growth was halted by freezing overnight temperatures. Forty percent of the acreage was harvested, slightly ahead of last year's 39-percent progress and 1 week ahead of the average. The harvest slowly gained momentum in the southern Corn Belt and Great Plains as dry weather prevailed. Virtually the entire crop was harvested in the Mississippi Delta.

Peanuts: Thirty-nine percent of the peanut acreage was harvested, slightly ahead of the 37-percent average for this date and well ahead of last year. Rain continued to delay harvest in most peanut-producing areas of the Atlantic Coastal Plains. In Virginia, growers took advantage of dry weather, harvesting more than 30 percent of their peanut acreage. Dry conditions also aided progress in inland areas of the eastern Gulf Coast.

Crop Progress and Condition

Week Ending October 3, 1999

Soybeans Percent Dropping Leaves				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AL	61	51	69	57
AR	47	39	54	39
GA	58	44	49	57
IL	90	80	83	83
IN	100	98	95	91
IA	96	77	97	92
KS	77	68	93	84
KY	82	77	68	55
LA	91	85	90	76
MI	100	94	90	75
MN	98	89	99	97
MS	93	86	87	77
MO	79	58	77	66
NE	96	75	97	92
NC	38	22	34	31
OH	100	95	96	88
SC	19	12	15	13
SD	93	78	99	96
TN	74	60	75	59
19 Sts	88	76	87	81

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

Soybeans Percent Harvested				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AL	20	15	15	7
AR	20	13	19	12
GA	9	3	4	4
IL	34	14	34	31
IN	52	28	41	28
IA	32	8	47	33
KS	11	5	19	19
KY	44	24	20	9
LA	61	50	62	43
MI	29	16	26	15
MN	32	9	63	33
MS	62	48	60	41
MO	19	9	17	13
NE	27	8	33	27
NC	8	0	2	2
OH	51	28	50	26
SC	5	1	1	1
SD	16	8	40	24
TN	26	14	13	6
19 Sts	32	15	38	26

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

Winter Wheat Percent Planted				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AR	2	1	3	6
CA	1	0	0	0
CO	87	81	86	83
GA	1	1	1	2
ID	40	24	45	48
IL	7	2	6	8
IN	20	6	22	18
KS	60	32	39	47
MI	36	15	45	36
MO	13	7	11	14
MT	72	54	48	57
NE	92	80	89	86
NC	10	9	14	15
OH	34	7	30	21
OK	55	34	30	44
OR	1	0	23	29
SD	80	62	86	86
TX	50	40	51	55
WA	79	67	73	74
19 Sts	53	37	44	49

These 19 States planted 91% of last year's winter wheat acreage.

Winter Wheat Percent Emerged				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AR	0	0	1	2
CA	0	0	0	0
CO	55	43	62	57
GA	0	0	0	1
ID	13	5	15	17
IL	0	0	1	1
IN	2	0	2	3
KS	25	9	21	23
MI	5	0	13	9
MO	0	0	2	2
MT	30	12	14	20
NE	62	36	64	59
NC	2	0	0	0
OH	2	0	2	2
OK	22	9	6	12
OR	0	0	9	10
SD	47	19	62	61
TX	29	21	24	31
WA	58	39	62	58
19 Sts	26	14	23	25

These 19 States planted 91% of last year's winter wheat acreage.

Corn Percent Mature				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
CO	72	50	84	73
GA	100	100	100	100
IL	98	93	94	87
IN	99	95	94	83
IA	100	95	99	92
KS	91	78	98	91
KY	100	100	97	89
MI	94	86	93	60
MN	95	79	99	88
MO	97	94	95	91
NE	91	84	96	87
NC	100	96	99	100
OH	93	80	82	56
PA	58	41	57	53
SD	78	56	95	84
TX	99	96	100	97
WI	91	80	94	69
17 Sts	94	85	95	84

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

Corn Percent Harvested				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
CO	10	2	12	10
GA	97	95	96	93
IL	43	28	31	18
IN	40	27	18	14
IA	18	9	18	11
KS	40	31	64	42
KY	88	87	68	47
MI	16	9	21	11
MN	9	3	27	11
MO	56	50	51	41
NE	17	9	30	14
NC	65	59	88	75
OH	26	16	14	8
PA	18	12	16	13
SD	12	5	21	9
TX	84	74	87	84
WI	16	9	16	9
17 Sts	29	19	29	19

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

Crop Progress and Condition

Week Ending October 3, 1999

Cotton Percent Bolls Opening				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AL	88	85	89	80
AZ	100	95	95	99
AR	96	91	92	89
CA	80	70	73	93
GA	85	79	84	82
LA	100	98	100	98
MS	100	99	100	96
MO	100	100	100	91
NM	80	60	79	84
NC	88	70	94	91
OK	96	82	97	61
SC	80	72	88	81
TN	100	100	100	96
TX	82	74	80	69
14 Sts	87	80	86	80

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

Cotton Percent Harvested				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AL	32	25	39	21
AZ	9	5	12	19
AR	43	20	29	21
CA	1	0	1	7
GA	18	12	18	15
LA	66	50	64	46
MS	52	36	56	39
MO	59	42	25	20
NM	0	0	3	2
NC	1	0	23	13
OK	6	3	14	7
SC	12	8	29	17
TN	47	28	36	23
TX	24	19	38	27
14 Sts	28	19	32	23

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

Rice Percent Harvested				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AR	87	76	84	79
CA	30	7	29	39
LA	99	98	99	97
MS	84	71	92	86
TX	100	99	97	96
5 Sts	82	72	80	79

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

Sorghum Percent Mature				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AR	100	99	98	97
CO	43	23	48	32
IL	89	72	58	62
KS	74	51	88	69
LA	100	100	100	100
MS	100	100	100	99
MO	80	73	88	77
NE	74	55	93	80
NM	20	6	18	26
OK	69	50	57	43
SD	70	52	89	82
TX	84	81	85	86
12 Sts	77	64	84	75

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

Sorghum Percent Harvested				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AR	96	91	92	85
CO	10	7	3	4
IL	21	12	6	6
KS	18	14	29	21
LA	99	98	100	94
MS	99	98	100	93
MO	50	42	42	34
NE	7	5	12	11
NM	2	0	0	2
OK	16	12	20	13
SD	14	6	29	13
TX	80	78	63	68
12 Sts	40	36	39	36

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

Peanuts Percent Harvested				
	Oct 3 1999	Prev Week	Prev Year	5-Yr Avg
AL	59	45	27	53
FL	71	48	25	31
GA	52	38	31	52
NC	10	8	18	16
OK	8	1	10	14
SC	19	13	28	36
TX	18	16	25	17
VA	34	3	35	39
8 Sts	39	28	27	37

These 8 States harvested 99% of last year's peanut acreage.

Soybeans Crop Condition by Percent					
	VP	P	F	G	EX
AL	51	18	15	16	0
AR	12	19	30	29	10
GA	25	25	35	15	0
IL	6	12	38	37	7
IN	12	22	43	21	2
IA	3	7	27	43	20
KS	3	14	43	38	2
KY	23	35	25	15	2
LA	9	29	32	25	5
MI	2	7	27	49	15
MN	3	7	29	50	11
MS	13	20	34	26	7
MO	25	32	33	10	0
NE	3	10	30	46	11
NC	8	22	38	28	4
OH	7	17	33	36	7
SC	9	33	39	19	0
SD	1	4	18	57	20
TN	44	37	17	2	0
19 Sts	9	15	32	35	9
Prev Wk	9	15	32	35	9
Prev Yr	NA	NA	NA	NA	NA

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	1	3	12	58	26
GA	13	18	31	33	5
IL	5	13	39	38	5
IN	9	19	43	26	3
IA	2	6	22	46	24
KS	1	5	26	58	10
KY	10	15	29	38	8
MI	2	7	21	50	20
MN	3	4	28	52	13
MO	24	21	25	24	6
NE	1	6	23	51	19
NC	2	33	37	25	3
OH	8	17	35	34	6
PA	18	30	32	18	2
SD	0	2	17	55	26
TX	0	2	15	59	24
WI	0	2	11	52	35
17 Sts	4	9	27	45	15
Prev Wk	5	9	28	44	14
Prev Yr	NA	NA	NA	NA	NA

Crop Progress and Condition

Week Ending October 3, 1999

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	14	34	26	25	1
AZ	1	6	35	45	13
AR	1	10	41	35	13
CA	0	0	20	75	5
GA	16	25	34	21	4
LA	4	16	35	38	7
MS	4	17	40	33	6
MO	19	23	23	33	2
NM	5	5	25	50	15
NC	17	28	30	23	2
OK	3	29	20	26	22
SC	11	35	36	16	2
TN	18	38	35	9	0
TX	7	24	30	30	9
14 Sts	8	22	31	32	7
Prev Wk	9	20	33	31	7
Prev Yr	14	22	34	27	3

Sorghum Crop Condition by Percent					
	VP	P	F	G	EX
AR	1	15	39	36	9
CO	1	2	12	50	35
IL	7	8	19	66	0
KS	1	6	29	56	8
LA	0	5	32	58	5
MS	5	8	22	46	19
MO	14	29	43	13	1
NE	0	5	30	55	10
NM	0	1	50	49	0
OK	0	4	15	78	3
SD	0	1	28	62	9
TX	3	18	31	36	12
12 Sts	2	11	30	47	10
Prev Wk	2	11	29	48	10
Prev Yr	NA	NA	NA	NA	NA

Peanuts Crop Condition by Percent					
	VP	P	F	G	EX
AL	13	24	41	16	6
FL	4	8	60	27	1
GA	11	17	41	27	4
NC	3	23	35	37	2
OK	1	11	22	43	23
SC	1	11	48	28	12
TX	5	9	18	47	21
VA	2	4	45	44	5
8 Sts	8	15	35	33	9
Prev Wk	9	15	35	32	9
Prev Yr	6	14	34	40	6

Pasture and Range Crop Condition by Percent											
Week Ending October 3, 1999											
	VP	P	F	G	EX		VP	P	F	G	EX
AL	23	34	29	14	0	NH	11	5	32	25	27
AZ	0	1	9	42	48	NJ	0	0	50	50	0
AR	21	34	34	10	1	NM	1	3	40	51	5
CA	15	30	35	20	0	NY	0	5	44	49	2
CO	1	7	22	57	13	NC	8	20	34	33	5
CT	0	13	40	47	0	ND	1	3	25	61	10
DE	2	5	43	47	3	OH	25	37	27	11	0
FL	0	5	35	60	0	OK	3	15	35	46	1
GA	15	29	34	21	1	OR	8	26	35	30	1
ID	5	21	32	40	2	PA	19	25	26	23	7
IL	28	29	27	15	1	RI	11	38	48	3	0
IN	48	37	14	1	0	SC	9	24	50	17	0
IA	8	20	41	28	3	SD	1	4	19	59	17
KS	1	11	33	52	3	TN	57	30	12	1	0
KY	54	29	15	2	0	TX	20	33	35	10	2
LA	12	24	40	22	2	UT	2	11	33	48	6
ME	0	5	31	49	15	VT	8	9	37	46	0
MD	3	12	29	48	8	VA	6	17	25	42	10
MA	5	5	44	46	0	WA	20	37	29	10	4
MI	8	22	36	23	11	WV	17	38	32	13	0
MN	4	14	30	46	6	WI	1	25	40	30	4
MS	20	30	33	16	1	WY	0	1	13	80	6
MO	46	27	20	7	0	48 Sts	14	21	31	30	4
MT	6	22	38	29	5						
NE	7	12	30	44	7	Prev Wk	16	21	31	28	4
NV	8	6	26	59	1	Prev Yr	9	19	33	34	5

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

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/oce/waob/jawf>.

ALABAMA: Days suitable for fieldwork 5.9. Topsoil 53% very short, 32% short, 15% adequate. Much of the State received rain, but not in time to help drought stressed crops. Corn 95% mature, 100% 1998, 100% avg.; 82% harvested 82%, 96% 1998, 86% avg. Cotton bolls 88% opening, 89% 1998, 80% avg.; 32% harvested, 39% 1998, 21% avg. Soybeans 94% blooming, 100% 1998, 100% avg.; 92% setting pods, 100% 1998, 100% avg.; 61% dropping leaves, 69% 1998, 57% avg.; 51% very poor, 18% poor, 15% fair, 16% good. Pasture feed 23% very poor, 34% poor, 29% fair, 14% good. Livestock 10% very poor, 21% poor, 47% fair, 17% good, 5% excellent.

ALASKA: Days suitable for fieldwork 1.5. Topsoil 95% adequate, 5% surplus. Subsoil 100% adequate. More cool, cloudy, damp conditions hindered the fall harvests. Daytime high temperatures were mostly in the forties with nighttime lows mostly in the thirties. However, lows in the teens were reported in the Sawmill Creek area at mid-week. Oats 85% harvested. Barley 95% harvested. Second cutting hay harvest 60% complete. Winter straw supplies 40% short, 60% adequate. Commercial storage potato harvest, 95% complete. Major activities included: Cutting hay, harvesting vegetables, grains, hay, potatoes, fence and machinery repair.

ARIZONA: Cotton harvest continues throughout most of State. Alfalfa harvest activity was reported as 32% not being harvested, 7% light, 21% moderate, 40% active. Alfalfa 6% poor, 24% fair, 60% good, 10% excellent. Pasture conditions improved significantly throughout the State last month with good rains, warm temperatures. Pastures throughout the State ranged from excellent to good condition. Livestock good to excellent condition with pasture feed improving. Many ranchers are reporting widespread rains, no supplemental feeding. The ranges are greening up, some ranchers are reporting the best Summer season in years. Both stock water, soil moisture were adequate to surplus. Insect damage was light to moderate with some reports of grasshopper damage. Central areas producers shipped a light volume of cantaloupes, green onions, watermelons. Eastern areas producers shipped apples, chile peppers, pumpkins. Central, western citrus groves harvested lemons last week.

ARKANSAS: Days suitable for fieldwork 7. Topsoil 43% very short, 41% short, 16% adequate. Cool, dry in most areas of the State. A soaking rain was reported throughout the State. Some areas reported over an inch while others had almost ½ inch of rain. A frontal passage on the first of the month brought cooler temperatures to northern areas. Livestock were reported in fair condition. Many farmers were feeding supplemental hay early this year because of the drought. Main farm activities: Harvesting rice, sorghum, cotton, corn, preparing land for planting of annual forages such as rye, ryegrass. Other activities included: Liming pastures, land leveling, planning for fall pastures, irrigating soybeans for the last time, spraying fields for insects and weeds, continued pea, pumpkin harvesting, started wheat planting, treating crop lands for armyworms, fields were being sub soiled, plowed, tree fruit, small fruit harvesting, dusting and ear tagging cattle for external parasites, planning for Brucellosis vaccinations, fall calving, giving vaccinations, pregnancy checking spring bred cows, selling cull cows, weaning calves. Corn 98% harvest; Cotton 96% opening bolls, 43% harvested, 1% very poor 10% poor 41% fair 35% good 13% excellent; soybeans 100% setting pods, 47% shedding, 20% harvested, 12% very poor 19% poor 30% fair 29% good 10% excellent; sorghum 100% mature, 96% harvested; alfalfa 6% very poor 30% poor 49% fair 15% good; other hay 19% very poor, 34% poor, 36% fair, 11% good. Range, pasture feed 21% very poor, 34% poor, 34% fair, 10% good, 1% excellent.

CALIFORNIA: Field activities progressed rapidly under ideal conditions in most areas. Seedbed preparations for fall-seeded small grains and forage crop plantings remained active. Winter forage planting continued. Seeding of wheat and barley fields slowly gained momentum. Some early seeded wheat fields were beginning to emerge in the southern San Joaquin Valley. Rice harvest was in full swing, with some fields still showing blanking as a result of cool temperatures experienced at pollination. Defoliation of Upland variety cotton was gradually increasing; harvest was underway in the southern San Joaquin Valley. Most American Pima cotton fields were still

at least one week away from the first defoliant application. Corn for grain, silage was harvested. Dry beans, sugar beets were also harvested. New crop sugar beets and alfalfa were sprayed for worms. Seed alfalfa harvest neared completion in the San Joaquin Valley. Vineseed harvest continued in the Sacramento Valley. Seeding of new alfalfa began in some areas. Alfalfa, sudan grass were cut for hay or green chopped. Harvest of grapes for fresh use continued in the San Joaquin Valley. Varieties picked included Red Globe, Thompson Seedless. Harvesting of grapes for raisins was active; approximately 20% were on open trays, 35% rolled, 45% picked up. Picking of wine grapes continued. Harvest of stone fruit crops was nearing completion. Fig harvest continued. Picking of apples was active. Olive harvest was underway. Prune harvest was making progress. Harvest of almonds, walnuts continued. Pistachio harvest was also active. Valencia oranges, lemons were picked in southern State. New crop navel oranges were maturing well. Fall strawberries were setting fruit, were available in limited quantities from roadside vendors. Processing, fresh market tomato harvests were winding down. Continued mild weather extended the vegetable season. This was true for eggplant, green beans, onions, cucumbers, yellow, white sweet corn, okra, squash, assorted Asian vegetables. Cantaloupe harvest slowed; most packers should finish for the season in three to four weeks. Sweet pepper harvesting was active; the red pepper harvest was starting. Most onion fields have had the onions bagged for drying; several fields remained for harvest. Some fall lettuce fields were thinned , treated to control worms. Harvest of pumpkins, ornamental gourds was expected to begin in one or two weeks. Broccoli, radicchio plantings were thriving. Carrots were planted in Tulare County. Among the crops harvested were bok choy, cilantro, lemon grass, mint, garlic, mushrooms, parsley, snap peas, sugar peas, radishes, sweet potatoes, honeydew melons, watermelons. Normal seasonal decline of pasture conditions in central, northern areas continued, with pastures in poor to fair condition. Most sheep have moved to foothill or alfalfa pastures, lambing was in full swing. Lambs started arriving in the Imperial Valley for the winter alfalfa pasture season. Cattle were still moving from mountain to foothill pastures. Beef cows were calving. Hay, supplemental feeding continued. Livestock were in good condition. Fire hazards were still high in many areas, as fall rains have not begun.

COLORADO: Days suitable for fieldwork 5.5. Topsoil 1% very short, 22% short, 67% adequate, 10% surplus. Subsoil 2% very short, 21% short, 71% adequate, 6% surplus. The week started and ended on a very cold note, seasonal temperatures prevailed for most of the period. First general killing frost occurred on the night of 28th. Spring wheat 93% harvested, 99% 1998, 95% avg. Corn 99% dented, 99% 1998, 97% avg.; silage 91% harvested, 92% 1998, 89% avg. Dry onions 80% harvested, 86% 1998, 89% avg. Sugar beets 10% harvested, 9% 1998, 8% avg.; 1% very poor, 5% poor, 12% fair, 58% good, 24% excellent. Dry beans 95% cut, 95% 1998, 90% avg.; 76% harvested, 86% 1998, 78% avg. Summer potatoes 96% harvested, 93% 1998, 90% avg. Fall potatoes 72% harvested, 63% 1998, 65% avg. Alfalfa 83% 3rd cutting, 88% 1998, 83% avg.; 28% 4th cutting, 14% 1998, 20% avg.; 1% very poor, 8% poor, 21% fair, 53% good, 17% excellent. Pasture feed, range mostly good condition.

DELAWARE: Days suitable for fieldwork 4.2. Topsoil 87% adequate, 13% surplus. Subsoil 3% short, 92% adequate, 5% surplus. Field corn 7% very poor, 20% poor, 31% fair, 34% good, 8% excellent; 90% mature, 88% 1998, 85% avg.; 55% harvested for grain, 53% 1998, 47% avg.; 80% harvested for silage, 98% 1998, 91% avg. Soybeans 6% very poor, 24% poor, 38% fair, 26% good, 6% excellent; 41% turned, 63% 1998, 60% avg.; 22% shedding leaves, 33% 1998, 38% avg. Sorghum 8% poor, 57% fair, 33% good, 2% excellent; 80% turned, 78% 1998, 76% avg.; 33% mature, 49% 1998, 50% avg. Lima beans 86% harvested, 80% 1998, 85% avg. Apples 81% harvested, 88% 1998, 82% avg. Clover, other hay 45% 4th cutting, 43% 1998, 43% avg. Alfalfa hay 67% 4th cutting, 79% 1998, 77% avg.; 15% 5th cutting, 0% 1998, 7% avg. Hay supplies 2% very short, 27% short, 71% adequate. Pasture feed 2% very poor, 5% poor, 43% fair, 47% good, 3% excellent. Activities: Continued corn harvesting, soybean harvest starting up.

FLORIDA: Topsoil moisture throughout State mostly short to adequate.

Scattered showers brought varying amounts of rain. Palmetto-Ruskin about 0.50 to 3.00 in. with most falling in eastern parts. Southwestern areas picked up trace to 1.00 in.; Dade County, 1.35 to 2.00 in.; Ft. Pierce about 1.50 in. Rainfall at major stations varied from traces to over 3.00 in. Temperatures 1 to 3 degrees above normal at major stations. Daytime highs mostly 80s with several localities recording at least one high in 90s. Nighttime lows in 60s, 70s with Valparaiso reporting at least one low in 50s.

Tobacco marketing resumed 27th after being suspended 15th due to Hurricane Floyd. Soybean, cotton harvest starting. Sugarcane condition normal. Haying active. Peanuts 71% harvested. Bell pepper harvesting started, East Coast vegetable area. Strawberry transplanting began, Palmetto-Ruskin. Tomato picking gained momentum, Quincy. Clearer conditions allowed most vegetable work to get back on schedule. Rain most citrus areas early in week, then dry until Sunday, moisture adequate. Some fruit splitting, new growth slowing. New fruit progressing well, maturity testing continues. Fresh shipments include Navels, Ambersweet oranges, Fallglo tangerines, grapefruit. Caretakers cutting cover crops, fertilizing, spraying, planting new trees after pushing abandoned groves. Pasture feed 5% poor, 35% fair, 60% good. Cattle 35% fair, 45% good, 20% excellent.

GEORGIA: Days suitable for fieldwork 5.0. Soil moisture 12% very short, 30% short, 53% adequate, 5% surplus. Hay 15% very poor, 30% poor, 37% fair, 18% good. Peanuts 69% dug, 46% 1998, 68% avg. Rye 21% planted, 20% 1998, 19% avg. Sorghum 67% harvested for grain, 66% 1998, 54% avg. Other small grains 18% planted, 10% 1998, 10% avg. Apples 17% poor, 35% fair, 41% good, 7% excellent; 58% harvested, 67% 1998, 75% avg. Pecans 7% very poor, 15% poor, 33% fair, 38% good, 7% excellent; 1% harvested, 2% 1998, 2% avg. Scattered rains continued to fall over the State. Rains were too late for most summer crops, did help small grains, winter pastures. Rains helped soil conditions. Corn harvest neared completion ahead of the five year average pace. Soybeans were being harvested last week. Crop condition improved. Sorghum harvest continued ahead of last year, the five year average pace. Rain fell at an inopportune time for peanut, cotton farmers as they need sunshine, dry weather to harvest. Peanut harvest continued. Farmers continued to defoliate cotton last week, some were applying chemicals to finish opening cotton bolls. Cotton condition changed slightly from the previous week, harvest was at last year's pace. Improved soil moisture helped pastures, winter grazing. Pasture, hay conditions improved from the previous week. Small grain planting benefitted from the rains as well. Apple harvest was slowed due to the rains and remained behind last year and the five year average pace. Pecan condition changed slightly last week as harvesting began in some areas. Fall vegetable harvesting continued. Squash was being picked. Some cabbage drowned last week. Other activities included overseeding pastures, preparing pecan groves for harvest, baling peanut hay.

HAWAII: Weather conditions were favorable for agriculture. Most areas received sunny weather. Windward areas of the southern islands experienced a mixture of morning showers with sunny afternoons. Overall crops made fair to good progress. Banana harvesting is active with most orchards in good condition. Papaya orchards made good progress. Harvesting remained steady. Head cabbage fields in good condition. Insect pressure is generally low. Sweet corn in good condition. Harvesting is expected to increase in coming weeks.

IDAHO: Days suitable for fieldwork 6.7. Topsoil 12% very short, 40% short, 48% adequate. Cold front drops temperatures. Potato crop in good condition despite heavy frost. Irrigation supply 1% poor, 5% fair, 39% good, 55% excellent. Alfalfa hay 95% 3rd cutting, 91% 1998, 86% avg. Oats 99% harvested for grain, 99% 1998, 95% avg. Mint 100% harvested, 99% 1998, 99% avg. Dry beans 95% harvested, 83% 1998, 84% avg. Corn 73% harvested for silage, 57% 1998, 67% avg. Corn 6% harvested for grain, 5% 1998, 4% avg. Sweet corn 98% harvested, 95% 1998, 95% avg. Onions 73% harvested, 54% 1998, 74% avg. Peaches 99% harvested, 91% 1998, 97% avg. Prunes, plums 95% harvested, 68% 1998, 91% avg. Apples 19% harvested, 22% 1998, 33% avg. Hops 98% harvested, 93% 1998, 98% avg. 98%. Potatoes with vines dead/kill 96%, 94% 1998, 97% avg.; 37% harvested, 33% 1998, 38% avg. Sugar beets 15% harvested, 12% 1998, 13% avg. Winter wheat 40% planted, 45% 1998, 48% avg.; 13% emerged, 15% 1998, 17% avg. Activities: Preparing seedbeds, fertilizing for fall planted grains, chopping corn silage, harvesting potatoes, sugar beets, other row crops.

ILLINOIS: Days suitable for fieldwork 5.0. Topsoil 20% very short, 35% short, 44% adequate, 1% surplus. Despite scattered rains last week, farmers continued harvesting corn, soybeans. Progress is furthest along in

the southern districts. Soybean harvest is in line with 1998 progress, is slightly ahead of the five-year average. Other activities for last week included fall tillage, tending to livestock. Soybeans 98% turning yellow, 94% 1998, 94% avg.

INDIANA: Days suitable for fieldwork 5.6. Topsoil 34% very short, 38% short, 28% adequate. Subsoil 57% very short, 36% short, 7% adequate. Corn, soybean harvest made good progress. Corn harvest still 17 days ahead of average. Soybean harvest 8 days ahead of average. Harvested corn moisture averaging around 17%, soybeans 10.5% moisture content. Mid-week showers brought relief to dry soil conditions. Corn 29% good to excellent. Soybean 23% good to excellent. Range, pasture feed 48% very poor, 37% poor, 14% fair, 1% good. Feeding hay necessary. Tobacco harvest nearly complete. Activities: Seeding winter wheat, tillage of soils, chopping stalks, grain bin maintenance, hauling grain, harvesting tobacco, stripping tobacco, feeding hay, caring for livestock.

IOWA: Days suitable for fieldwork 5.9. Topsoil 15% very short, 34% short, 50% adequate, 1% surplus. Subsoil 16% very short, 36% short, 47% adequate, 1% surplus. Farmers busy with harvest, even though rain fell over most of the State. Windy, warm conditions were beneficial to drying corn, soybean crops. Frosts did blacken leaves on some soybeans, but temperatures were not low enough to kill the stem, halt bean development. Corn 18% harvested, 18% 1998, 11% avg. Percent moisture of all field corn 23% harvested, 19% avg. Corn lodging none 49%, light 36%, moderate 13%, heavy 2%; ear droppage: none 58%, light 34%, moderate 7%, heavy 1%; 2% very poor, 6% poor, 22% fair, 46% good, 24% excellent. Soybeans 96% dropping leaves, 97% 1998, 92% avg.; 32% harvested, 47% 1998, 33% avg.; lodging none 58%, light 32%, moderate 9%, heavy 1%; shattering none 52%, light 36%, moderate 10%, heavy 2%; 3% very poor, 7% poor, 27% fair, 43% good, 20% excellent. Winter wheat 35% planted, 46% 1998, 41% avg. Fall calving cows are doing well though the cool, wet weather has caused some sickness in newborn calves. Producers are feeding hay, green-chopped corn, though the recent rain has helped pasture conditions. Range, pasture feed 8% very poor, 20% poor, 41% fair, 28% good, 3% excellent.

KANSAS: Days suitable for fieldwork 3.9. Topsoil 2% very short, 22% short, 65% adequate, 11% surplus. Subsoil 3% very short, 22% short, 72% adequate, 3% surplus. Rain fell over much of the State early in the week with the heaviest amounts in the east. Some areas in the eastern third of the State reported rainfall amounts up to 7.00 in., bringing fall fieldwork in that area of the State to a near stand-still. Wheat 1% poor, 21% fair, 65% good, 3% excellent. Sunflower 2% poor, 18% fair, 66% good, 14% excellent. Sunflowers 62% mature, 82% 1998. Sunflowers 12% harvested, 35% 1998. Hay, forage supplies 5% short, 86% adequate, 9% surplus. Stock water supplies 1% very short, 10% short, 87% adequate, 2% surplus. Cattle continue to move from pastures to feedlots or row crop stubble. Ranchers are busy fall calving, weaning calves, moving calves to market.

KENTUCKY: Days suitable for fieldwork 5.1. Topsoil 68% very short, 27% short, 5% adequate. Subsoil 78% very short, 21% short, 1% adequate. Temperatures slightly above normal. Widely scattered showers brought varying amounts of precipitation to the State. Rainfall provided only limited drought relief. Corn harvest is nearly complete while the soybean harvest gained momentum. Burley 96% cut, 94% 1998, 92% avg. Dark tobacco 98% cut, 94% 1998, 93% avg. Housed tobacco 6% very poor, 18% poor, 40% fair, 32% good, 4% excellent. Tobacco 5% stripped, 29% ready for stripping, 66% was not ready for stripping. Winter wheat seeding 14% complete, 17% 1998, 14% avg. Pasture feed 54% poor, 29% poor, 15% fair, 2% good. Hay continues to be fed to livestock. Livestock sales volume continued to be high due to short supplies of hay, water.

LOUISIANA: Days suitable for fieldwork 5.4. Soil moisture 10% very short, 36% short, 47% adequate, 7% surplus. Cotton harvest continued. Hay 94% final cutting, 83% 1998, 91% avg. Pecans 5% very poor, 8% poor, 38% fair, 44% good, 5% excellent; 4% harvested, 5% 1998, 2% avg. Soybeans 99% leaves turning, 95% 1998, 91% avg. Sugarcane 18% fair, 57% good, 25% excellent; 100% planted, 83% 1998, 88% avg.; 9% harvested, 1% 1998, 1% avg. Sweet potatoes 3% very poor, 10% poor, 50% fair, 36% good, 1% excellent; 57% harvested, 50% 1998, 54% avg. Sweet potato harvest made good progress. Wheat 4% planted, 17% 1998, 9% avg. Livestock 2% very poor, 8% poor, 35% fair, 46% good, 9% excellent. Vegetables 8% very poor, 16% poor, 42% fair, 30% good, 4% excellent. Pasture conditions improved with the rain showers.

MARYLAND: Days suitable for fieldwork 4.5. Subsoil 16% very short, 23% short, 54% adequate, 7% surplus. Topsoil 1% very short, 8% short, 74% adequate, 17% surplus. Corn 19% very poor, 28% poor, 36% fair, 16% good, 1% excellent; 90% mature, 89% 1998, 88% avg.; 46% harvested for grain, 52% 1998, 39% avg.; 82% harvested for silage, 89% 1998, 81% avg. Soybeans 6% very poor, 17% poor, 32% fair, 39% good, 6% excellent; 66% turned, 75% 1998, 73% avg.; 45% shedding leaves, 43% 1998, 47% avg. Sorghum 3% poor, 30% fair, 65% good, 2% excellent; 90% turning color, 79% 1998, 86% avg.; 32% mature, 39% 1998, 62% avg.; 26% harvested, 19% 1998, 18% avg. Apples 41% harvested, 57% 1998, 56% avg. Clover, other hays 75% 4th cutting, 72% 1998, 56% avg. Alfalfa 51% 4th cutting, 83% 1998, 81% avg; 20% 5th cutting. Pasture feed 3% very poor, 12% poor, 29% fair, 48% good, 8% excellent. Hay supplies 13% very short, 50% short, 36% adequate, 1% surplus. Activities: Harvesting of corn, hay. Soybean harvesting just starting up.

MICHIGAN: Days suitable for fieldwork 4.0. Topsoil 5% very short, 11% short, 77% adequate, 7% surplus. Subsoil 14% very short, 35% short, 47% adequate, 4% surplus. Hay 1% very poor, 4% poor, 26% fair, 37% good, 32% excellent. Hay 59% 4th cutting 59%, 45% 1998, 34% avg. Dry beans 95% harvested, 99% 1998, 72% avg. Corn silage 93% harvested, 92% 1998, 68% avg. Soybeans 95% mature, 80% 1998, 51% avg. Much needed rain this week helped sugar beet yields, newly planted wheat, dry soybeans. Temperatures remained cool as fall weather settled in. Corn harvest very slow this week as rain prevented much field work. Farmers tried to finish corn silage harvest as harvesting corn for grain will be top priority in coming weeks. Soybean harvest continued as beans very dry. Most farmers believe that rain received last week helped soybeans. Dry bean work slowed due to rain, with most farmers trying to complete harvest. Third cutting of hay completed and those fields that will have a 4th cutting being harvested. Rain helped sugar beet yields as fields very dry. Early planted winter wheat has started to emerge as rains last week provided good germination conditions. Harvest of Jonagold, Empire, Jonathan apples completed. Many Golden Delicious, Red Delicious being picked. Some Idared and Romes being harvested. Harvest of Concord grapes will wind down this week. Carrot harvest continued. About one week of celery harvest left with good quality reported. Pumpkin harvest well along. Processing tomato harvest winding down. Onion, pepper, zucchini squash harvests complete.

MINNESOTA: Days suitable for fieldwork 5.4. Topsoil 3% very short, 12% short, 68% adequate, 17% surplus. Soybeans 86% mature, 96% 1998, 82% avg.; 12% moisture content, 13% 1998, 13% avg. Corn 96% silage cut, 98% 1998, 82% avg.; 22% moisture content, 19% 1998, 25% avg. Winter wheat 92% seeded, 98% 1998, 97% avg. Rye 93% seeded, 99% 1998, 96% avg. Dry beans 61% harvested, 92% 1998, 79% avg. Sugar beets 28% harvested, 32% 1998, 21% avg. Sunflowers 5% harvested, 20% 1998, 22% avg. Potatoes 51% harvested, 71% 1998, 64% avg. Grain/Hay stubble plowed 74%, 87% 1998, 78% avg. Pasture feed 4% very poor, 14% poor, 30% fair, 46% good, 6% excellent. Sugar beets 4% very poor, 6% poor, 21% fair, 55% good, 14% excellent. Sunflowers 6% very poor, 16% poor, 32% fair, 38% good, 8% excellent. Dry beans 4% very poor, 14% poor, 39% fair, 37% good, 6% excellent. The week was unseasonably cold, but mostly dry, harvest activity picked up speed, especially on soybeans. Southern third of the state had an unusual early snowfall on 1st, 2nd. Corn continues to dry well in the field. Moisture in soybean plants is highly variable. Some fields are almost too dry, while others need a killing frost to help dry out green stems, leaves.

MISSISSIPPI: Days suitable for fieldwork 5.4. Soil moisture 35% very short, 37% short, 27% adequate, 1% surplus. Cotton 52% harvested, 56% 1998, 39% avg.; 4% very poor, 17% poor, 40% fair, 33% good, 6% excellent. Rice 99% mature, 100% 1998, 98% avg.; 84% harvested, 92% 1998, 86% avg. Soybeans 99% turning color, 98% 1998, 92% avg.; 93% shedding leaves, 87% 1998, 77% avg.; 62% harvested, 60% 1998, 41% avg.; 13% very poor, 20% poor, 34% fair, 26% good, 7% excellent. Sweet potatoes 50% harvested, 44% 1998, 54% avg.; 1% very poor, 9% poor, 33% fair, 56% good, 1% excellent. Hay (warm-season) 95% harvested, 100% 1998, 100% avg. Cattle 4% very poor, 9% poor, 39% fair, 44% good, 4% excellent. Pasture feed 20% very poor, 30% poor, 33% fair, 16% good, 1% excellent. Corn, cotton, soybean harvests are ahead of the five-year average. However, the rice harvest is progressing slightly behind the five-year average.

MISSOURI: Days suitable for fieldwork 4.8. Topsoil improved to 35% very short, 33% short, 29% adequate, 3% surplus before the effect of additional weekend rainfall. Precipitation 1.75 in. With virtually no rain in the south-central, southeast, topsoil moisture remained over 90% very short in those

areas. Row crop harvesting was interrupted by heavy rains that fell across most northern areas of the State early in the week, followed again by showers a few days later. Ninety-seven percent of the corn is mature, about the same as 1998 but a week ahead of normal for this date. Fifty-six percent of the corn is harvested, about 3 days ahead of last year and a week ahead of normal. Corn harvest is virtually complete in the southern third of the State with over 90% of the crop harvested, while the northwest, the largest producing corn district, is well behind the rest of the State with 28% harvested. Ninety-five percent of all soybeans were turning color, 79% were dropping leaves, 55% have reached maturity. The maturing process is similar to last year but about 4 days ahead of average. Nineteen percent of the crop is harvested, slightly ahead of 1998 and 2 days ahead of the 5-year average. Eighty percent of the sorghum crop was mature, about a week behind last year but normal for this date. Fifty percent of the crop is harvested, 4 days ahead of last year and about a week ahead of the 36% normal. Harvesting in the Bootheel is most advanced with 87% complete. Fifty-nine percent of the cotton was harvested, almost 3 weeks ahead of both last year and the 5-year average. Continued dry weather in the Bootheel contributed to the earlier than normal boll-opening, followed by rapid harvesting. Winter wheat seeding for next year's crop has progressed to 13% in the ground, a few days behind last year but about normal for this date. Pasture feed, range improved slightly to 46% very poor, 27% poor, 20% fair, 7% good. Pastures in some of the driest areas will still need more moisture, warm fall weather to bring growth back from dormancy.

MONTANA: Days suitable for fieldwork 4.7. Topsoil 13% very short, 36% short, 49% adequate, 2% surplus. Subsoil 18% very short, 41% short, 40% adequate, 1% surplus. Cooler across much of the State with decent moisture being received at some locations. Barley 97% harvested, 100% 1998, 98% avg. Spring wheat 93% harvested, 100% 1998, 98% avg. Sugar beets 22% harvested, 14% 1998, 16% avg. Oats 96% harvested, 100% 1998, 98% avg. Corn for silage 84% harvested, 91% 1998, 88% avg. Potatoes 37% harvested, 26% 1998, 30% avg. Dry beans 91% harvested, 95% 1998, 95% avg. Alfalfa 98% 2nd cutting, 99% 1998, 98% avg. Cattle, calves moved from summer ranges 49%, 41% 1998, 36% avg. Sheep, lambs moved from summer ranges 49%, 52% 1998, 42% avg. Wet weather conditions in some areas prevented farmers from getting into their fields as much as they would like which kept them from making progress in harvesting crops, seeding winter wheat. Late seedings of small grains in the spring in the north central, central, northeast parts of the state has delayed harvest as crops are not yet mature. Some fields are still green or too wet to harvest.

NEBRASKA: Days suitable for fieldwork 6.3. Topsoil 12% short, 42% short, 44% adequate, 2% surplus. Subsoil 10% very short, 35% short, 54% adequate, 1% surplus. Temperatures generally below normal across the State with some early frost, freezing temperatures. Precipitation traces to 1.00 to forty-five hundredths inches at Falls City. Corn 1% very poor, 6% poor, 23% fair, 51% good, 19% excellent; 91% mature, 96% 1998, 87% avg. Corn 17% harvest, 30% 1998, 14% avg. Soybean 3% very poor, 10% poor, 30% fair, 46% good, 11% excellent; acreage 96% dropping leaves, 97% 1998, 92% avg.; 27% harvest, 33% 1998, same as average. Sorghum 97% acreage turning color, 100% 1998, 100% avg.; 74% mature, 93% 1998, 80% avg.; 7% harvest, 12% 1998, 11% avg.; 5% poor, 30% fair, 55% good, 10% excellent. Dry beans harvest moved ahead to 89%, just ahead of 81% 1998, 83% avg. Alfalfa 1% very poor, 6% poor, 29% fair, 56% good, 8% excellent. Alfalfa fourth cutting, where possible, was at 78% complete, 64% 1998, 62% avg. Wheat 92% seeded, 89% 1998, 86% avg. Wheat 62% emerged, 64% 1998, 59% avg. Proso millet 73% harvest. Pasture feed, range 7% very poor, 12% poor, 30% fair, 44% good, 7% excellent. Producer activities included drilling wheat, putting up alfalfa, cane, building electric fences, moving old crop grain to elevators, shredding corn stalks, discing soybeans stubble, marketing of yearlings.

NEVADA: State was dry, had varied temperatures. Temperatures dipped below freezing in the Northern portion of the State. Harvest of 3rd cutting was near completion, 4th cutting of alfalfa continued. Harvest of field crops was winding down. Digging of potatoes, onions, some garlic continued over the week. Alfalfa seed harvest was near completion. Grain harvest was completed statewide. Fall planting of winter wheat, winter barley, new alfalfa continued. Cattle were gathered for weaning and pregnancy checks. Main farm, ranch activities: Irrigation, planting, harvest of 3rd and 4th cutting of alfalfa, working livestock, harvest of potatoes, onions, garlic.

NEW ENGLAND: Days suitable for fieldwork 5.5. Topsoil 3% very short, 7% short, 77% adequate, 13% surplus. Subsoil 8% very short, 19% short, 71% adequate, 2% surplus. Pasture feed 6% very poor, 8% poor, 36% fair, 44%

good, 6% excellent. Maine potatoes 50% harvested, 65% 1998, 65% avg.; condition excellent to good. Massachusetts potatoes 80% harvested, 80% 1998, 80% avg.; condition good to fair. Rhode Island potatoes 85% harvested, 80% 1998, 80% avg.; condition fair to poor. Oats in Maine 99% harvested, 95% 1998, 90% avg.; condition good to excellent. Barley in Maine 100% harvested, 100% 1998; condition good to excellent. Field corn 85% harvested, 60% 1998, 55% avg.; condition good to fair. Sweet corn 99% harvested, 95% 1998, 99% avg.; condition good to fair. Second cut hay 95% harvested, 95% 1998, 95% avg.; condition good to fair. Third cut hay 80% harvested, 70% 1998, 75% average; condition fair. Apples 70% harvested, 75% 1998, 65% avg.; size average to below average, condition good. Peaches 99% harvested, 100% 1998, 100% avg.; size average to below average, condition fair. Pears 50% harvested, 85% 1998, 80% avg.; size below average, condition fair to poor. Cranberries 20% harvested, 20% 1998, 30% avg.; size average, condition good. Major farm activities included: Harvesting potatoes, field corn; cutting hay; picking apples, peaches, pears; spreading manure, lime; plowing; discing harvested fields.

NEW JERSEY: Days suitable for fieldwork 6. Temperatures averaged much above normal. Rainfall 1.14 in. North, 0.63 in. Central, 0.54 in. South. Heaviest 24 hour total 1.10 in. at Charlotteburg on the 29th to the 30th. Estimated soil moisture, in percent of field capacity, this past week averaged 89% North, 77% Central, 57% South. Irrigation water supply is adequate in most areas. Planting of small grains, cover crops continued across the State. Harvest of grain corn is underway with well below average yields being reported. Corn silage is being harvested in the northern counties, low yields and poor quality have been reported. Several silage fields will not be harvested due to the high levels of nitrogen in the plant stalks. Early planted soybeans are in poor condition while the late planted crop is in fair condition. Soybean plants in southern area have started to drop leaves. Many soybean farmers are concerned about the consequences of having an early frost because the progress of the crop was significantly delayed during the dry summer months. Third cutting of alfalfa, other hay is underway and the crop has been rated between good, fair. Harvest of summer vegetables such as tomatoes, peppers, snap beans, eggplant, escarole, green beans, squash continued. Most of the remaining tomato, pepper, snap bean fields are in fair condition. Harvest of fall cabbage, lettuce, spinach is also underway, their condition is good in most areas. Some fall vegetable fields were washed out by the heavy rains brought by Floyd. Production of several vegetables has been reduced by excess moisture related problems such as diseases, insects. Sweet potato harvest is underway, overall quality is good, although some farmers have reported smaller than usual sizes. Harvest of apples is in full swing and good quality has been reported. Harvest of cranberries is also underway and the reported condition is good.

NEW MEXICO: Days suitable for fieldwork 6.9. Dry, autumn-like weather prevailed during the week. Clayton, Tucumcari were the only spots to measure any precipitation at all as a cold front moved through State early in the week. Many locations in the north had their first freezing temperatures of the season on the 29th. For the week, temperatures were generally 5 to 10° below normal in the extreme northeast to 3 to 6° above normal in the southwest. Statewide 1° below normal. Alfalfa farmers continued land preparation, planting new fields as harvest was about over for the year. Chile, corn silage harvest remained active. Sorghum, wheat conditions declined with no moisture received on dryland crops. Ranchers moved cattle to lower grounds, prepared for marketing, shipping of livestock. Pasture feed, range 1% very poor, 3% poor, 40% fair, 51% good, 5% excellent. Cattle, sheep mostly fair to good condition.

NEW YORK: Days suitable for fieldwork 5.2. Soil moisture 18% short, 74% adequate, 8% surplus. Pasture feed 5% poor, 44% fair, 49% good, 2% excellent. Corn 10% poor, 21% fair, 53% good, 16% excellent. Silage corn 84% harvested, 75% 1998, 50% avg. Alfalfa 3rd cutting 98% complete, 86% 1998, 89% avg. Soybeans dropping leaves. Potato digging continued. Vegetable harvest winding down. Only late plantings remain in the field. Onions being moved into storage. Pumpkins, squash harvests picked up. Grapes in Lake Erie region 65% harvested. Apple picking in full swing. Harvest near half-way mark.

NORTH CAROLINA: Days suitable for fieldwork 3.3, 5.0 last week. Soil moisture 5% very short, 14% short, 29% adequate, 52% surplus. Wet weather continued to be the topic of discussion this week in State as widespread precipitation fell across the entire State. Rainfall was welcomed in the western part of the State, especially in the Mountain region, however excess moisture continues to plague the Coastal regions. Potentially devastating losses in the sweet potato crop is the most recent of the

continual bad news for agriculture. With much of the soil in eastern areas at or near field capacity, harvest activities and other fieldwork has been hampered. Major activities of the week included continued hurricane clean-up, tobacco harvesting, marketing, harvesting of sweet potatoes, corn for grain and silage harvest. Other tasks included baling hay, harvesting apples and vegetables, tending livestock and land preparation and planting of small grains. Defoliation of cotton has taken place by air in many areas.

NORTH DAKOTA: Days suitable for fieldwork 5. Topsoil 1% very short, 10% short, 82% adequate, 7% surplus. Subsoil 11% short, 79% adequate, 10% surplus. Week of mostly dry weather allowed producers to make good progress on the small grain, dry edible bean, potato harvests. A hard freeze was reported across the State which will accelerate the dry down process for row crops. Durum wheat 81% combined, 100% 1998, 96% avg. Canola 94% combined, 100% 1998. Corn for grain 88% ripe, 96% 1998, 87% avg.; 3% harvested, 33% 1998, 12% avg.; silage 67% chopped, 88% 1998, 79% avg. Dry edible beans 81% cut, 100% 1998, 92% avg.; 66% combined, 97% 1998, 82% avg. Flaxseed 75% combined, 100% 1998, 83% avg. Potatoes 78% dug, 83% 1998, 76% avg. Soybeans 94% mature, 99% 1998, 98% avg.; 22% harvested, 65% 1998, 54% avg. Sugarbeets 33% lifted, 35% 1998, 22% avg. Sunflowers 70% bracts turned brown, 93% 1998, 87% avg.; 1% harvested, 15% 1998, 10% avg. Condition ratings for row crops declined from last week. Emerged crop condition: corn for grain 1% very poor, 6% poor, 21% fair, 61% good, 11% excellent; silage 5% poor, 23% fair, 59% good, 13% excellent; potatoes 7% poor, 11% fair, 43% good, 39% excellent; soybeans 3% very poor, 9% poor, 21% fair, 56% good, 11% excellent; sugar beets 1% very poor, 4% poor, 12% fair, 56% good, 27% excellent; sunflower 1% very poor, 8% poor, 29% fair, 47% good, 15% excellent. Stockwater supplies 1% short, 93% adequate, 6% surplus.

OHIO: Days suitable for fieldwork 5.4. Topsoil 31% very short, 43% short, 25% adequate, 1% surplus. Soybeans 96% mature, 81% 1998, 68% avg.; 51% harvested 51%, 50% 1998, 26% avg. Alfalfa hay 87% 4th cutting, 82% 1998. Other hay 95% 3rd cutting, 92% 1998, 85% avg. Corn 93% mature, 82% 1998, 56% avg.; 87% harvested for silage, 71% 1998, 59% avg.; 26% harvested for grain, 14% 1998, 8% avg. Winter wheat 34% planted, 30% 1998, 21% avg.; 2% emerged, 2% avg. Fall, winter apples 60% harvested, 62% 1998, 45% avg. Grapes 75% harvested, 70% 1998. Tobacco 82% harvested, 92% 1998. Tobacco 1% stripped. Processing tomatoes 94% harvested, 94% 1998, 87% avg. Potatoes 93% harvested, 91% 1998, 72% avg. Pasture feed 25% very poor, 37% poor, 27% fair, 11% good. Corn 8% very poor, 17% poor, 35% fair, 34% good, 6% excellent. Soybeans 7% very poor, 17% poor, 33% fair, 36% good, 7% excellent. Activities: Harvesting corn, soybeans; planting wheat; fall tillage; hauling grain; constructing grain bins; baling hay; picking pumpkins, apples, grapes; baling corn stalks; controlling weeds; spreading lime; hauling manure; developing new water systems; looking for hay; cutting tobacco. Fires were reported in Fulton county due to dry weather. Frost was reported in Wayne, Guernsey counties. Reporters comment on insect damage to soybean pods as well as beans falling out of pods before they are harvested because of dry conditions. Reported weed pressures include yellow foxtail, pigweed, velvetleaf, lambs quarters, Canadian thistle, giant ragweed, Johnson grass, chickweed, mare's tail. Reported insects include spider mites on soybeans; leaf hoppers in potatoes; corn borers; stink bugs on pumpkins, squash; beetles in soybeans, corn. Reported diseases include sudden death syndrome, white mold in soybeans; gray leaf spot, sun dust syndrome, fungus on corn; brown stem rot; stewart's wilt in corn. Fruit, vegetable producers are busy harvesting fall crops such as pumpkins, squash, tomatoes, broccoli, cauliflower, apples, peppers, sweet corn, indian corn. Poor pasture conditions still prevail although rain has helped certain parts of the State. Pastures are greening, are slow to recover. Cooler weather has alleviated stress on livestock although many producers are trying to find hay, alternative water supplies. Reporters comment on lower weaning weights, thinner cows than usual for this time of year.

OKLAHOMA: Days suitable for fieldwork 5.8. Subsoil 10% very short, 27% short, 63% adequate. Topsoil 11% very short, 30% short, 54% adequate, 5% surplus. Cool temperatures improve condition of row crops. Dry weather allows wheat seeding to advance. Oats 30% planted, 20% 1998, 24% avg.; 6% up-to-stand, 6% 1998, 4% avg. Corn 88% harvested, 94% 1998, 79% avg.; Soybeans 12% poor, 44% fair, 42% good, 2% excellent; 56% mature, 82% 1998, 67% avg.; 27% harvested, 40% 1998, 26% avg. Peanuts 46% mature, 73% 1998, 56% avg.; 1% combined, 3% 1998, 4% avg.; Alfalfa Hay 3% very poor, 7% poor, 30% fair, 55% good, 5% excellent; 74% 4th cutting, 56% 1998, 82% avg.; 18% 5th cutting, 9% 1998, 24% avg.; other hay 70% 2nd cutting, 30% 1998, 78% avg. Livestock 3% poor, 28% fair, 65% good, 4% excellent. Feeder steer prices stable at \$79 per cwt.

OREGON: Days suitable for fieldwork 7. Topsoil 41% short, 47% short, 12% adequate. Subsoil 59% very short, 35% short, 6% adequate. Barley harvested 96%, 97% 1998, 97% avg.; 17% planted, 11% 1998, 10% avg. Winter wheat 1% planted, 23% 1998, 29% avg. Range, pasture feed 8% very poor, 26% poor, 35% fair, 30% good, 1% excellent. Activities: Except for barley, late third cutting alfalfa hay, 1999 field crop harvest completed. Dry conditions continued across State, some grain growers delayed fall seeding for lack of moisture. Eastern areas growers planting wheat, barley deep, concerned that a shower might cause problems by causing soil crusting. In contrast, Willamette Valley growers dusting seed in hopes rain would come soon to start seed. Willamette Valley tall fescue seedings completed, seeding of new perennial ryegrass fields in full swing. Irrigation continued at nurseries because of the hot dry summer weather last week. Greenhouses busy with fall plants, Christmas poinsettias. On south coast Easter Lily growers starting to dig commercial bulbs, processing bulb materials, sow cover crops. Potato, onion harvests mostly completed in all areas of the State. Some growers reported potato quality good, yields down due to cool spring. North east seed potatoes being harvested. Western regions reported sweet corn harvest continued. Frost during week hurt sweet corn not yet picked, damaged tomato leaves, pumpkin vines, all other susceptible crops. Willamette Valley evergreen blackberry harvest winding down. Other berries being prepared for winter. Apple harvest, hazelnut drop continued. Rogue River Valley apple, pear harvest continued. On South coast cranberry growers made final preparations for harvest. In Hood River Valley, Bosc pears, Jonagold apple harvest underway in lower valley. In upper valley, Anjous pears harvest began at lower elevations. There has been no significant rain for a month, orchards are dry. Livestock mostly good. Most range operations in east have gathered their livestock. Seasonal shipments of yearling cattle to feeding operations continued. Spring calves weaned, given shots in southwest. Grass growth in Willamette Valley, coastal counties finished by hot weather, except where irrigated. Supplemental feeding continued at near winter levels. Most eastern mountain areas had enough frost nights to end growing season; first snow fell in Willowa Mountains.

PENNSYLVANIA: Days suitable for fieldwork 4.2. Soil moisture 15% very short, 17% short, 58% adequate, 10% surplus. Ensilage corn harvested 85% complete, 77% 1998, 65% avg. Soybeans harvested 4% complete, 6% 1998, 4% avg. Soybean 8% very poor, 29% poor, 35% fair, 27% good, 1% excellent. Potato harvest 65% complete, 67% 1998, 64% avg. Fall plowing 45% complete, 50% 1998, 55% avg. Wheat planted 16% complete, 17% 1998, 36% avg. Wheat emerged 12% complete, 5% 1998. Barley planted 51% complete, 39% 1998, 52% avg. Barley emerged 30% complete, 16% 1998. Alfalfa 3rd cutting 92% complete, 92% 1998, 89% avg. Alfalfa 4th cutting 65% complete, 57% 1998, 54% avg. Timothy clover 2nd cutting 91% complete, 95% 1998, 97% avg. Quality of hay made 6% very poor, 18% poor, 30% fair, 43% good, 3% excellent. Grape harvest 45% complete, 48% 1998, 51% avg. Apple harvest 44% complete, 57% 1998, 57% avg. Activities include: Harvesting corn, soybeans, fruits, vegetables, potatoes, corn silage and tobacco; planting barley, wheat and cover crops; machinery maintenance; filling silos; fixing fences; hauling, pumping and spreading manure; spreading lime; caring for livestock; cutting hay; plowing for the fall.

SOUTH CAROLINA: Days suitable for fieldwork 4.6. Soil moisture 4% very short, 20% short, 59% adequate, 17% surplus. Apples 65% harvested, 67% 1998, 72% avg.; 28% poor, 63% fair, 9% good. Corn 99% harvested, 99% 1998, 93% avg. Livestock 9% poor, 34% fair, 46% good, 11% excellent. Grapes 30% poor, 50% fair, 20% good. Pasture feed 9% very poor, 24% poor, 50% fair, 17% good. Sorghum 100% turned color, 100% 1998; 80% matured, 79% 1998; 55% harvested, 51% 1998, 57% avg.; 18% very poor, 37% poor, 41% fair, 4% good. Sweet potatoes 22% harvested, 39% 1998, 28% avg.; 20% poor, 75% fair, 5% good. Tobacco 100% harvested, 100% 1998, 100% avg.; 86% stalks destroyed, 87% 1998, 84% avg. Winter grazings 32% planted, 39% 1998, 33% avg.; 17% emerged, 25% 1998, 21% avg. Winter wheat 9% planted, 15% 1998, 9 avg.; 3% emerged, 3% 1998. Barley 8% planted, 8% 1998, 7% avg. Oats 10% planted, 10% 1998, 14% avg.; 2% emerged, 2% 1998, 6% avg. Rye 20% planted, 15% 1998, 18% avg.; 8% emerged, 3% 1998, 8% avg.

SOUTH DAKOTA: Days suitable for fieldwork 5.5. Topsoil 2% very short, 15% short, 70% adequate, 13% surplus. Subsoil 1% very short, 12% short, 72% adequate, 15% surplus. Alfalfa is 2% poor, 21% fair, 59% good, 18% excellent; 3rd cutting complete 84%, 93% 1998, avg. unavailable. Soybeans 65% mature, 93% 1998, 76% avg. Sunflower 4% poor, 21% fair, 60% good, 15% excellent; ray flowers 96% dry, 100% 1998, 100% avg.; 79% bracts

yellow, 96% 1998, 98% avg.; 57% mature, 89% 1998, 77% avg.; 9% harvested, 30% 1998, 17% avg. Flaxseed 25% fair, 65% good, 10% excellent; harvested 98%, 100% 1998, 99% avg. Corn 91% harvested for silage, 89% 1998, 79% avg. Sorghum 54% harvested for silage, 68% 1998, 62% avg. Winter rye 72% seeded, 91% 1998, 90% avg.; 48% emerged, 51% 1998, 68% avg. Stockwater supplies 1% very short, 5% short, 81% adequate, 13% surplus. Cattle 8% fair, 67% good, 25% excellent. Sheep 6% fair, 59% good, 35% excellent.

TENNESSEE: Days suitable for fieldwork 6.0. Topsoil 60% very short, 29% short, 11% adequate. Subsoil 69% very short, 24% short, 7% adequate. Burley 95% harvested, 90% 1998, 91% avg.; 11% stripped, 12% 1998, 10% avg. Dark Fire-Cured 94% harvested, 94% 1998, 93% avg. Pasture feed 57% very poor, 30% poor, 12% fair, 1% good. Winter wheat 4% seeded, 9% 1998, 13% avg. Cattle 7% very poor, 18% poor, 44% fair, 29% good, 2% excellent. Scattered showers fell in many areas of the State last week, but more is desperately needed to help stressed pastures and in the preparation of fields and pastures for fall seedings. Rainfall was also beneficial in the fact that middle, eastern area tobacco cured better with the moisture. Despite the mid-week rains, fall row crop harvest continued at a brisk pace. With the exception of a few late planted fields, corn harvest was virtually complete. As tobacco harvest draws closer to completion, many burley producers were concentrating their efforts on preparing their crop for stripping. Most cattle are in fair condition, but the lack of adequate forage and water has caused many herds to show signs of stress.

TEXAS: A light freeze occurred in the Northern High Plains following the passage of a weather front. Temperatures remained generally cool and mild over the state while only widely scattered showers fell in some locations. South Texas and Coastal areas received additional rainfall. Harvest remained active and land preparation remained slow in most locations due to continued dry conditions. Livestock conditions remained fair to good, but were declining. Supplemental feeding continued. Water available for livestock continued to decline and low pond levels were becoming a health concern in some areas. Some herd reduction continued.

Crops: Small Grains: Seeding of wheat, oats continued, but slowed under generally dry conditions. Irrigation continued where possible and scattered showers had little impact for emerging crops. Corn: Harvest continued on the High Plains, but was winding down and was completed in the remainder of the State. Markets continued to be weak. Corn 100% dented, 100% 1998, 100% avg. Cotton development continued on the Plains but was slowed by cooler temperatures, widely scattered showers. Dry land fields continued to mature as a result of the increased moisture, cooler temperatures. Harvest neared completion in the Coastal Bend, heavy rain again interrupted progress. Harvest continued in the Blacklands, Central Texas with generally good yields. Cotton stalk destruction continued where possible in South Texas while harvest of early fields continued to expand on the High Plains. Cotton condition 61% of normal compared with 46% 1998. Peanuts: Harvest activities continued in Plains, Central and South Texas. Dry land fields on the Low Plains received some moisture from widely scattered showers, but development remained slow. Some fields were being plowed in Central Texas as a result of the continued dry conditions. Peanut 79% of normal compared with 54% 1998. Rice: Flooding for the second crop was completed and the crop was progressing, cooler temperatures was slowing maturity. Sorghum: Harvest expanded on the High Plains under cooler conditions. Widely scattered showers in some locations had little effect on harvest. Soybeans: On the Plains Soybeans continued to dry down but was slowed by cooler temperatures. Fields were maturing and preparation for harvest continued.

Commercial Vegetables: Rio Grande Valley, Peppers and tomatoes continued to progress. Planting began for carrots, cabbage, onions. San Antonio-Winter Garden, Cabbage planting continued and preparation for other fall vegetables was still underway. East Texas, Planting of fall crops and gardens continued but remained slow as dry conditions continued. High Plains, pumpkin harvest continued. Pecans: The generally good crop continued to mature, however nut filling remained a problem in some areas as a result of the dry conditions. Shuck split was occurring in some locations on native trees. Nut drop continued in some areas.

Range and Livestock: Livestock water continued to decline. In some areas the levels are so low that pollution from stagnate conditions were becoming a problem. Supplemental feeding and culling of herds continued in some locations. Fall calving continued and grass fires continued to be a problem in most areas of the State.

UTAH: Days suitable for fieldwork 7. Topsoil 13% very short, 22% short, 64% adequate, 1% surplus. Subsoil 10% very short, 24% short, 66% adequate. Pasture feed, range 2% very poor, 11% poor, 33% fair, 48% good, 6% excellent. Corn 90% in dough stage, 92% 1998, 73% avg.; 60% in dent stage, 65% 1998, 52% avg.; 28% mature, 38% 1998, 45% avg. Corn 68%

silage harvested, 49% 1998, 57% avg. Winter wheat 70% planted, 88% 1998, 75% avg.; 18% emerged, 41% 1998, 37% avg. Alfalfa hay 95% 3rd cutting, 95% 1998, 90% avg.; 48% 4th cutting, 55% 1998, 45% avg. Alfalfa 34% seed harvested, 74% 1998, 57% avg. Peaches 85% picked, 92% 1998, 98% avg. Pears 91% picked, 91% 1998, 95% avg. Apples 26% picked, 19% 1998, 35% avg. Potatoes 35% harvested, 60% 1998, 44% avg. Onions 72% harvested, 63% 1998, 64% avg. Dry beans 85% harvested, 100% 1998, 93% avg. Cattle moved from summer range 37%, 43% 1998, 48% avg. Sheep moved from summer range 37%, 48% 1998, 49% avg. Major activities included: Harvesting hay, corn silage, moving livestock to winter ranges, planting winter grain.

VIRGINIA: Days suitable for fieldwork 4.2. Topsoil 6% very short, 7% short, 65% adequate, 22% surplus. Subsoil 12% very short, 16% short, 60% adequate, 12% surplus. Temperatures this past week were several degrees above normal for much of the Commonwealth. Wet field conditions limited the number of days suitable for field work, with some areas receiving several inches above normal rainfall. Pastures feed 6% very poor, 17% poor, 25% fair, 42% good, 10% excellent. Livestock 5% poor, 27% fair, 59% good, 9% excellent. Corn for grain 98% dented, 99% 1998, 98% avg.; 87% mature, 98% 1998, 92% avg.; 55% harvested, 65% 1998, 52% avg.; 13% very poor, 26% poor, 32% fair, 25% good, 4% excellent. Corn for silage 95% harvested, 93% 1998, 83% avg. Soybeans 100% setting pods, 100% 1998, 99% avg.; 40% dropping leaves, 43% 1998, 16% avg.; 0% harvested, 5% 1998, 4% avg.; 5% very poor, 13% poor, 30% fair, 42% good, 10% excellent. Winter wheat 3% seeded, 12% 1998, 7% avg. Barley 15% seeded, 8% 1998, 16% avg. Tobacco, flue cured 80% harvested, 76% 1998, 84% avg. Tobacco, burley 97% harvested, 89% 1998, 91% avg. Tobacco, dark fire cured 97% harvested, 99% 1998, 98% avg. Peanuts 34% dug, 35% 1998, 39% avg.; 8% combined, 15% 1998, 20% avg; 2% very poor, 4% poor, 45% fair, 44% good, 5% excellent. Cotton 77% bolls opening, 77% 1998, 71% avg.; 3% harvested, 36% 1998, 13% avg.; 3% very poor, 9% poor, 45% fair, 40% good, 3% excellent. Apples, all 1% very poor, 11% poor, 31% fair, 48% good, 9% excellent. Apples, fall 55% harvested, 46% 1998, 55% avg. Apples, Winter 18% harvested, 18% 1998, 25% avg. Favorable conditions allowed regrowth in pastures. Livestock producers are hopeful fall forage will be more abundant than previously expected. Hay producers are busy cutting, baling hay as weather permits. Rain occurred in some areas where hay had been cut but not yet baled, reducing quality. Corn harvest continues behind 1998, slightly ahead of normal schedule. Soybean harvest is expected to begin in the next week or two. Some plants remain under water in isolated areas of southeastern areas. Effects of Hurricane Dennis, additional rainfall which has occurred following the storm have yet to be realized. Much of the acreage planted to wheat, barley in State follows another crop. Delayed harvest of summer, fall crops, particularly peanuts, has caused small grain seeding to lag slightly behind normal schedule. Harvest of tobacco acreage is nearly complete, especially in the southwestern portion of the Commonwealth. Peanut harvest began slowly due to persistent, wet conditions in southeastern areas. While limited acreage has been combined to date, yields so far have been rated by producers as good to excellent. Producers are hoping to dig the remaining acres as soon as possible in order to minimize the damage due to increased disease pressure. Cotton producers are turning to aircraft to defoliate this year's crop. Producers are generally able to spray their crop from the ground. Surplus rainfall has made it nearly impossible to get necessary equipment into most fields. A few isolate producers have been able to get cotton pickers into the field, have begun to harvest their crop, others will harvest as soon as field conditions permit. Some fall tillage will be necessary to remove ruts created by the heavy equipment. Producers continue to harvest apples, tomatoes, cucumbers, snap beans, squash, pumpkins, gourds, other vegetable crops.

WASHINGTON: Days suitable for fieldwork 7.0. Topsoil 25% very short, 46% short, 29% adequate. Subsoil 15% very short, 65% short, 20% adequate. Winter wheat 79% planted, 73% 1998, 74% avg.; 58% emerged, 62% 1998, 58% avg. Planting for winter wheat continued. Producers were

still hoping for moisture to germinate the winter wheat that had been planted. Some were still watching the weather and deciding whether to plant winter wheat or not. That winter wheat that had been planted was emerging and seemed to be in good condition. Potatoes 65% harvested, 58% 1998, 56% avg. Potatoes 10% fair, 40% good, 50% excellent. Hay, other roughage supplies 8% short, 72% adequate, 20% surplus. Range, pasture, 20% very poor, 37% poor, 29% fair, 10% good, 4% excellent. Potato harvest progressed ahead of both 1998 and average. Sugar beet harvest continued along with onions, sweet corn, carrots. Apples, pears, grapes were being harvested. Fruit growers were busy trying to get their crops picked before the cold weather was detrimental to the quality of the fruit. Alfalfa producers were starting 4th, 5th cuttings.

WEST VIRGINIA: Days suitable for fieldwork 4.9. Topsoil 27% very short, 48% short, 25% adequate. Crop, pasture conditions were aided by rainfall across the State. Crop harvest, planting continue behind normal. Hay 24% very poor, 35% poor, 34% fair, 7% good; Hay 2nd cut 87%; 3rd cut 54%, 76% 1998, 72% avg. Corn 14% very poor, 25% poor, 38% fair, 23% good; 94% dent, 83% 1998; 69% mature, 73% 1998, 75% avg.; 23% harvested, 31% 1998, 31% avg. Soybeans 7% very poor, 13% poor, 40% fair, 40% good; dropping leaves 76%, 87% 1998, 82% avg.; harvested 11%, 22% 1998. Tobacco harvested 82%, 98% 1998, 96% avg. Apples 24% poor, 60% fair, 16% good. Apples harvest 50%, 76% 1998. Wheat planted 6%, 31% 1998, 24% avg.; 3% emerged, 3% 1998. Cattle 3% very poor, 11% poor, 50% fair, 35% good, 1% excellent. Sheep 1% very poor, 6% poor, 63% fair, 28% good, 2% excellent.

WISCONSIN: Days suitable for fieldwork 4.9. Soil moisture 5% very short, 24% short, 69% adequate, 2% surplus. Southern areas received a much-needed slow, soaking rainfall last week. Northwestern areas finally had nearly a full week of sunshine. Frost started to creep southward across the state, mainly occurring in low areas. Much of the State still has not received a killing frost. Some reporters in West Central locations were surprised to see light snow on 2nd. High moisture corn for grain harvest started in the northern half of the State. Reporters commented that there will be less time available to harvest high moisture corn this year due to the speed of the crop drying in the field. Corn silage harvest was pushed in areas which received frost last week. Soybean harvest picked up the pace last week after being stalled by showers. Yields have been reported as better-than-average, but could have been higher if rainfall would have been received during pod fill. Soybean 91% dropping leaves, 96% 1998, 80% avg.; 26% harvested, 21% 1998, 13% avg.: 2% poor, 9% fair, 52% good, 37% excellent. Hay harvest continued on a limited scale last week, as producers reported more-than-adequate supplies of forage. Rainfall aided in regrowth before winter. Fourth crop hay harvested: 54% 1999, 56% 1998. Early-sowed winter wheat germinated last week after receiving moisture. Some wheat producers waited for rainfall before tilling, seeding their fields. Fall tillage completed: 18% 1999, 15% 1998, 12% avg. Horseradish digging and planting started in the Northwest during the past week. Potato growers made good harvest progress; some producers were over two-thirds done. Pasture feed 1% very poor, 25% poor, 40% fair, 30% good, 4% excellent.

WYOMING: Days suitable for fieldwork 5.4. Topsoil 1% very short, 32% short, 66% adequate, 1% surplus. Temperatures cooler than normal with scattered light precipitation. Oats 97% harvested, 99% 1998, 99% avg. Corn 10% fair, 88% good, 2% excellent; 83% mature, 85% 1998, 88% avg.; 1% harvested, 7% 1998, 13% avg.; 94% harvested for silage, 87% 1998, 90% avg. Dry beans 86% combined, 88% 1998, 89% avg. Sugar beets 11% fair, 75% good, 14% excellent; 21% harvested, 6% 1998, 11% avg. Alfalfa 78% 3rd cutting, 72% 1998, 73% avg. Winter wheat 5% fair, 95% good; 88% emerged, 89% 1998, 83% avg. Range, pasture feed 1% poor, 13% fair, 80% good, 6% excellent. Cattle 90% good, 10% excellent. Calf 91% good, 9% excellent. Sheep, lambs 94% good, 6% excellent.

International Weather and Crop Summary

September 26 - October 2, 1999

HIGHLIGHTS

EUROPE: Persistent showers in northwest Europe further delayed summer crop harvesting and winter grain planting, while dry weather returned to the Iberian peninsula.

FSU-WESTERN: Although dry weather in southern Ukraine and southern Russia favored fieldwork for summer crop harvesting, topsoils remained unfavorably dry for winter wheat emergence.

FSU-NEW LANDS: Rain and snow showers slowed spring grain harvesting in Russia, while continued dry weather in Kazakstan allowed rapid spring grain harvesting.

EASTERN ASIA: Rain in the North China Plain slowed summer harvests but improved winter wheat planting prospects.

AUSTRALIA: Beneficial rain aided development of winter grains and oilseeds.

SOUTH ASIA: Widespread, locally heavy rain covered central and southern India, benefiting immature summer crops but coming too late to help drought-stressed portions of western India.

SOUTHEAST ASIA: Variable showers maintained adequate moisture supplies for rice in Indochina and the Phillippines.

CANADA: Cold, showery weather disrupted Prairie harvests.

MEXICO: Dry weather continued to aid maturing corn across the Southern Plateau, but heavy showers caused localized flooding across extreme southern areas.

SOUTH AMERICA: Soaking rain in parts of southern Brazil provided abundant topsoil moisture for summer crop planting.

September 1999

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

*** DATA NOT AVAILABLE

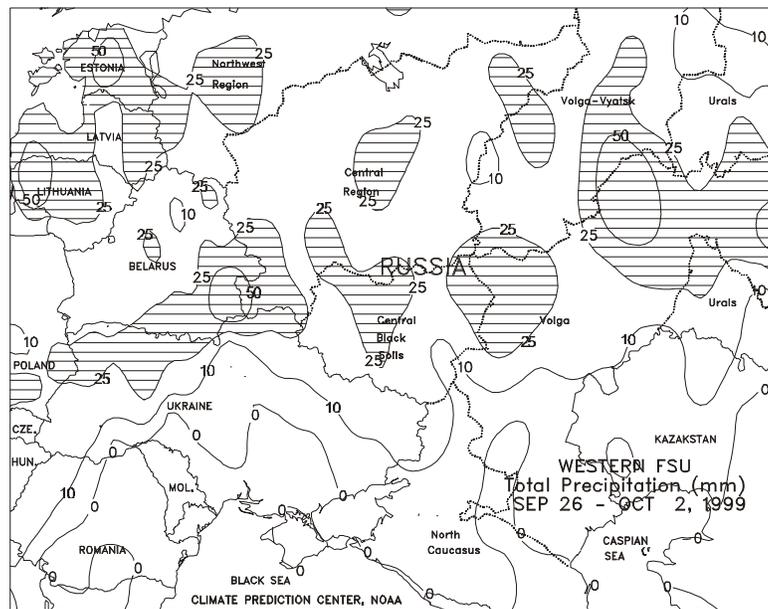
COUNTR	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG DPART F/NRM	TOTAL	DPART F/NRM	
NORWAY	OSLO	17	10	24	2	13	4.0	140	42
FINLAN	HELSINKI	17	8	23	0	13	2.5	36	-37
UKINGD	EDINBURGH	19	11	26	2	15	2.6	68	1
IRELAN	DUBLIN	18	11	23	6	15	1.3	105	38
ICELAN	REYKJAVIK	11	7	17	1	9	1.6	55	-12
DENMAR	COPENHAGEN	20	13	23	9	16	2.4	30	-32
LUXEMB	LUXEMBOURG	21	13	29	9	17	3.4	69	2
SWITZE	ZURICH	21	14	28	11	17	3.2	118	23
	GENEVA	23	14	29	10	19	3.7	127	45
FRANCE	PARIS/ORLY	23	14	32	9	18	***	85	**
	STRASBOURG	24	13	30	9	19	3.6	63	8
	BOURGES	23	13	31	7	18	2.4	143	82
	BORDEAUX	25	15	33	9	20	2.7	169	95
	TOULOUSE	27	15	33	9	21	2.9	54	7
	MARSEILLE	27	18	31	14	22	2.4	122	75
SPAIN	VALLADOLID	24	13	32	9	19	0.3	110	77
	MADRID	26	15	32	10	20	0.1	30	-3
	SEVILLE	30	19	36	14	24	-0.6	52	31
PORTUG	LISBON	24	18	33	15	21	-0.3	115	89
GERMAN	HAMBURG	24	13	30	9	19	5.0	34	-36
	BERLIN	24	13	30	8	19	4.0	11	-34
	DUSSELDORF	24	15	32	10	19	3.8	48	-14
	LEIPZIG	24	13	30	9	18	4.3	26	-19
	DRESDEN	23	13	28	9	18	3.8	51	3
	STUTTGART	23	12	29	7	17	3.1	46	-14
	NURNBERG	24	11	30	4	17	3.4	47	-4
AUSTRI	VIENNA	23	13	26	9	18	2.4	59	7
	INNSBRUCK	23	12	28	9	17	2.9	125	46
CZECHR	PRAGUE	22	11	26	7	17	3.4	53	13
POLAND	WARSAW	22	11	27	2	16	2.8	22	-18
	LODZ	22	11	27	4	16	3.4	22	-31
	KATOWICE	22	11	27	3	16	3.5	68	15
	PRZEMYSL	21	11	24	3	16	2.4	44	-11
HUNGAR	BUDAPEST	25	14	30	10	20	3.1	14	-27
	BELGRADE	26	16	34	12	21	2.9	42	-8
YUGOSL	BUCHAREST	24	12	32	4	18	0.7	124	87
ROMANI	SOFIA	24	13	32	9	18	1.6	31	-14
BULGAR	MILAN	26	17	30	11	22	3.0	77	10
ITALY	VERONA	26	16	30	10	21	2.2	82	20
	VENICE	26	17	30	14	21	2.5	15	-51
	GENOA	26	21	31	18	23	1.0	120	5
	ROME	27	17	31	12	22	1.3	47	-24
GREECE	THESSALONIKA	27	18	32	16	23	0.6	42	16
	LARISSA	29	16	35	11	22	0.4	28	-4
	ATHENS	29	21	33	18	25	0.6	9	-4
TURKEY	ISTANBUL	26	18	29	16	22	2.3	38	-3
	ANKARA	25	9	32	2	17	-1.0	11	-26
CYPRUS	LARNACA	32	20	35	19	26	0.9	8	3
ESTONI	TALLINN	18	9	25	0	13	2.4	26	-56
LITHUA	KAUNAS	20	9	26	1	14	2.2	29	-28
BELARU	MINSK	19	9	27	3	14	2.2	46	-10
RUSSIA	KAZAN	14	7	25	1	11	-0.6	89	44
	MOSCOW	17	8	25	2	12	1.3	47	-14
	YEKATERINBURG	12	7	22	1	10	0.2	66	16
	OMSK	15	6	23	-2	10	-0.5	39	8
	KRASNOYARSK	**	**	**	15	**	***	**	**
	NOVOSIBIRSK	14	5	25	-5	10	-0.3	18	-15
	BARNAUL	16	6	28	-2	11	-0.5	46	17
	KHABAROVSK	19	9	28	0	14	0.5	37	-54
	VLADIVOSTOK	20	14	26	4	17	1.7	32	-97
	SARATOV	17	10	27	6	14	1.2	38	2
	VOLGOGRAD	21	10	29	3	15	-0.1	5	-16
	ASTRAKHAN	24	11	30	4	17	0.0	10	-12
	KRASNODAR	24	12	32	7	18	0.9	16	-13
	ORENBURG	19	7	29	1	13	-0.7	16	-15
KAZAKH	TSELINOGRAD	20	8	42	0	14	2.6	10	-15
	KARAGANDA	20	8	29	1	14	1.7	16	-3
GEORGI	TBILISI	25	16	32	12	20	0.8	53	15
UZBEKI	TASHKENT	29	14	35	7	22	1.5	11	7
TURKME	ASHKHABAD	31	18	38	4	24	1.3	0	-5

Based on Preliminary Reports



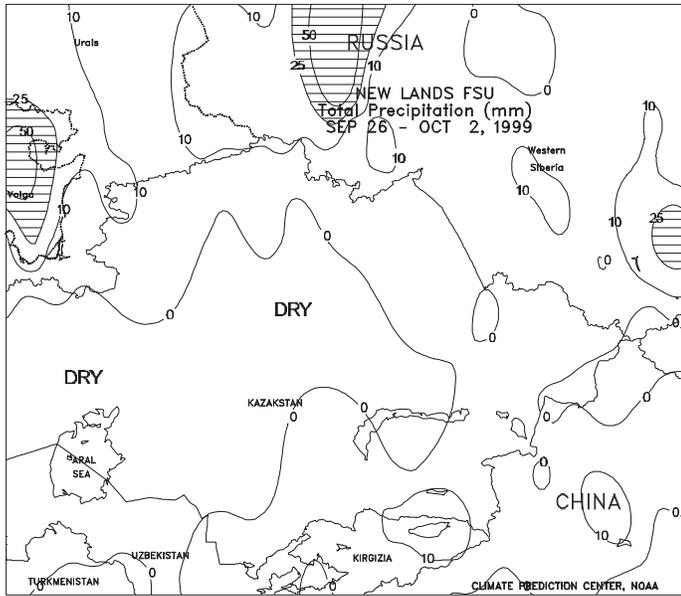
EUROPE

In England, France, the Benelux countries, Scandinavia, western Germany, and northern Italy, widespread showers (25-100 mm) throughout the week further delayed summer crop harvesting and winter grain planting. In western France, the second straight week of rain in major sunflowerseed-producing areas reportedly raised concerns over crop quality. The corn harvest has reportedly progressed well across Germany and Italy, although recent rains have temporarily interrupted harvesting. These rains have been beneficial, however, for rapeseed in the early stages of development in eastern France and Germany. Farther east, occasional showers (5-30 mm) affected eastern Germany and Poland southward through Hungary and the Balkans. Periods of dry weather did occur, however, favoring corn and sunflowerseed harvesting and winter wheat planting. In Romania, Bulgaria, and Greece, summer crop harvesting and winter wheat planting continued without delay as dry weather dominated. Similarly, dry weather dominated from southern Italy westward across the Iberian peninsula promoting corn, sugar beet, sunflowerseed, and cotton harvesting. Unseasonably mild weather continued across the continent, with average temperatures ranging from 1 to 4 degrees C above normal in western Europe to 4 to 7 degrees C above normal in eastern Europe. The only unseasonably cool area was Portugal and extreme western Spain, where temperatures averaged 1 to 3 degrees C below normal.



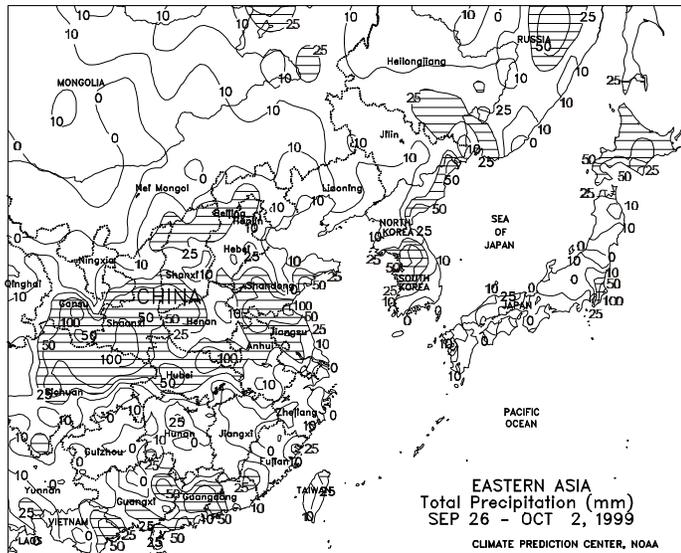
FSU-WESTERN

In Russia, light to moderate showers (10-25 mm or more) spread from the Northwest Region eastward across the Central Region into the middle and upper Volga Valley, providing abundant topsoil moisture for winter grain establishment. Furthermore, weekly temperatures averaged 5 to 7 degrees C above normal in these areas, spurring rapid growth of winter grains. Farther south in Russia, mostly dry weather continued in the lower Volga Valley and the North Caucasus region, helping corn, sunflower, and sugar beet harvesting. Reports as of September 27 indicated that corn for grain, sunflower, and sugar beet harvesting in Russia was 12, 15, and 39 percent complete, respectively. Topsoils in southern Russia remained unfavorably dry for winter wheat emergence and establishment. Furthermore, maximum temperatures in southern Russia climbed into the lower 30's degrees C over the weekend, further depleting topsoil moisture. In Ukraine, although showers (10-25 mm) slowed summer crop harvesting in the west and north, the precipitation favored winter grain establishment. Dry weather persisted across the southern half of Ukraine, favoring corn, sunflower, and sugar beet harvesting but limiting topsoil moisture for winter wheat germination and establishment. Weekly temperatures averaged 5 to 8 degrees C above normal in Ukraine, with unseasonable heat (maximum temperatures ranging from 30-35 degrees C) observed in southern areas over the weekend. Elsewhere, welcomed rains (10-50 mm or more) eased unfavorable dryness in Belarus and the Baltics, improving conditions for winter grain establishment.



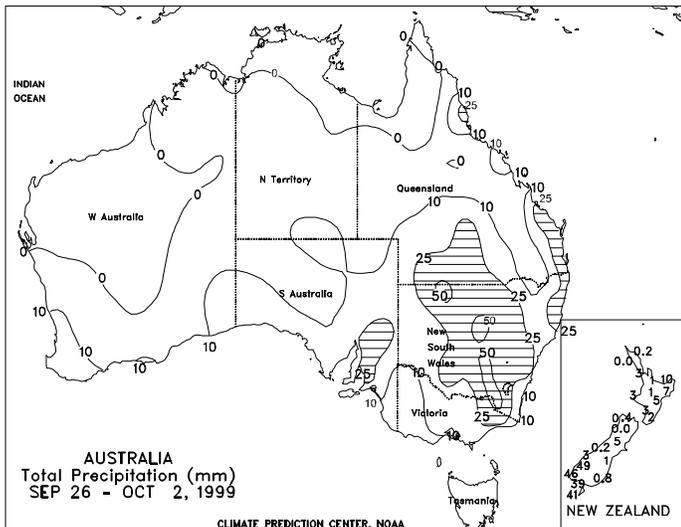
FSU-NEWLANDS

Spring grain harvesting progressed in Russia and Kazakstan. In Russia, wet weather (13-57 mm) halted harvesting in crop areas adjacent to the Ural Mountains. Elsewhere in Russia, light rain (4-22 mm) and scattered snow showers hampered late-harvest activity. In Russia, reports as of September 27 indicated that the harvest of small grains and pulses, excluding corn, advanced to 91 percent completion. In Kazakstan, unseasonably warm, dry weather allowed the spring grain harvest to progress without delays. Weekly temperatures averaged 2 to 6 degrees C above normal in Kazakstan. In cotton-producing areas of Central Asia, mostly dry weather and seasonable temperatures favored boll maturation and harvesting.



EASTERN ASIA

Moderate to heavy showers (10-25 mm or more, locally exceeding 50 mm) covered the North China Plain. The unseasonable rainfall, the heaviest rain in that area in over a month, disrupted summer crop harvests and may have affected the quality of cotton and other crops. However, the moisture was very timely for winter wheat planting. Locally heavy rain (25-100 mm or more) fell in western winter wheat areas (Shaanxi and Sichuan), possibly causing localized flooding and washouts. Farther south, moderate showers (25 mm or more) slowed harvesting in the more northerly double-crop rice areas (Hubei to Jiangsu), while mostly dry weather favored rice harvesting elsewhere in the Yangtze Valley. Locally heavy rain (25-50 mm or more) fell along the southern coast (Guangxi and Guangdong). Elsewhere, mild, showery weather (temperatures averaging near to slightly above normal and rainfall totaling 10-25 mm or more) covered Manchuria, likely slowing fieldwork while making mature summer crops unfavorably wet. Patchy frost was possible in sections of Jilin and Liaoning, but temperatures were higher than last week in Heilongjiang. Drier weather over Japan and the Korean Peninsula brought some relief from last week's storm activity, although pockets of moderate rain (25 mm or greater) slowed recovery efforts.

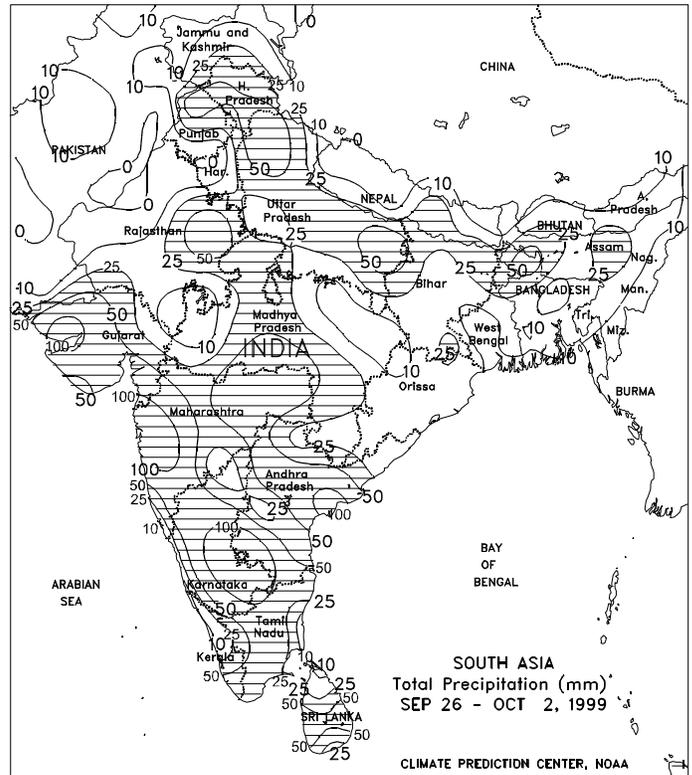


AUSTRALIA

Showers (1-25 mm or more, locally exceeding 50 mm) swept across the east, benefiting winter crops advancing through reproductive phases of development. The heaviest rain (20-50 mm or more) fell across winter grain and oilseed areas of New South Wales, improving yield prospects and increasing reservoir levels. At week's end, significant rainfall had not reached Queensland's winter grain areas, allowing harvesting to progress. In contrast, beneficial rain (10-25 mm or more) covered the region's main western cotton and sorghum areas and spread westward through important grazing areas. In South Australia and Victoria, light showers (2-25 mm) stabilized growing conditions but failed to improve the long-term moisture outlook. A brief period of heat stress (highs in the middle 30's degrees C) occurred in South Australia's western growing areas. In fact, temperatures throughout the east averaged 2 to 4 degrees C above normal, hastening crop growth rates. In Western Australia, light showers (5 mm or less in most areas) and seasonably mild temperatures covered most winter grain areas. However, unusually high temperatures (lower 30's degrees C) on the eastern fringe of the growing area raised crop moisture demands. In New Zealand, mostly dry, seasonably cool weather covered nearly all agricultural districts.

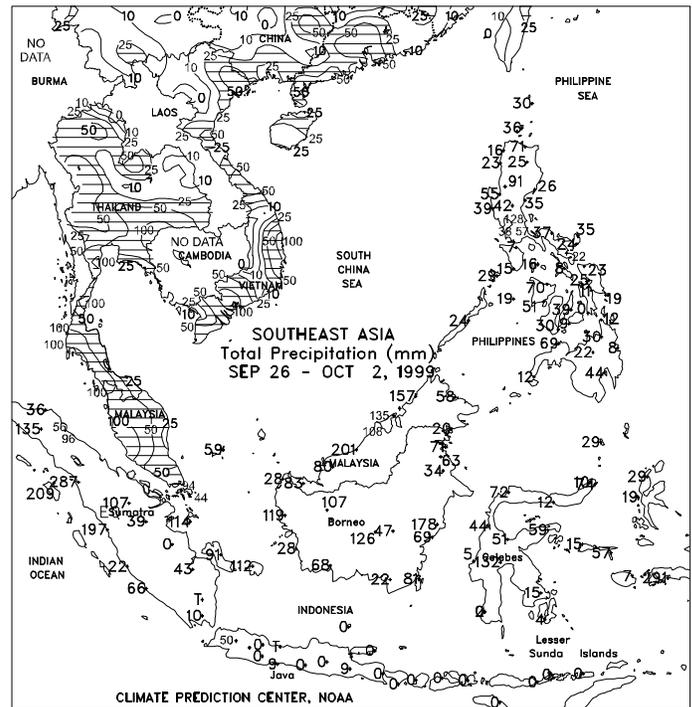
SOUTH ASIA

A late-season surge in the monsoon brought copious rain to much of India, resulting in the nation's best rainfall coverage since early July. Amounts totaled 25 to 100 mm across Gujarat, giving late-developing cotton a boost but coming too late for maturing crops in the groundnut basin (Saurashtra). Showers (5-25 mm) in neighboring sections of Madhya Pradesh were too late for soybeans but benefited that area's cotton, while improving moisture supplies for secondary cropping. Farther south, widespread, locally heavy rain (25-100 mm or more) improved prospects for late-developing summer crops and autumn-sown oilseeds and grains. Although this week's showers were unusually heavy, southern India normally experiences a rise in seasonal rainfall with the retreating monsoon during October and November. Elsewhere, highly variable showers (10-25 mm, locally exceeding 50 mm) covered the eastern rice belt and spanned northern growing areas of India and Pakistan. In north-central India, isolated showers (50-100 mm) may have harmed maturing cotton. However, the moisture across the north will be overall beneficial for winter wheat and oilseed planting, typically underway by November.



SOUTHEAST ASIA

Variable showers (25-90 mm) fell across much of Indochina, maintaining adequate moisture supplies for immature rice. Farther east, drier weather (20-50 mm) prevailed in the Philippines, allowing rice harvesting to progress. Seasonal showers (40-100 mm) maintained moisture supplies for oil palm across peninsular Malaysia. Mainly sunny, dry weather prevailed across Java, Indonesia, aiding second-crop rice maturation and harvesting.



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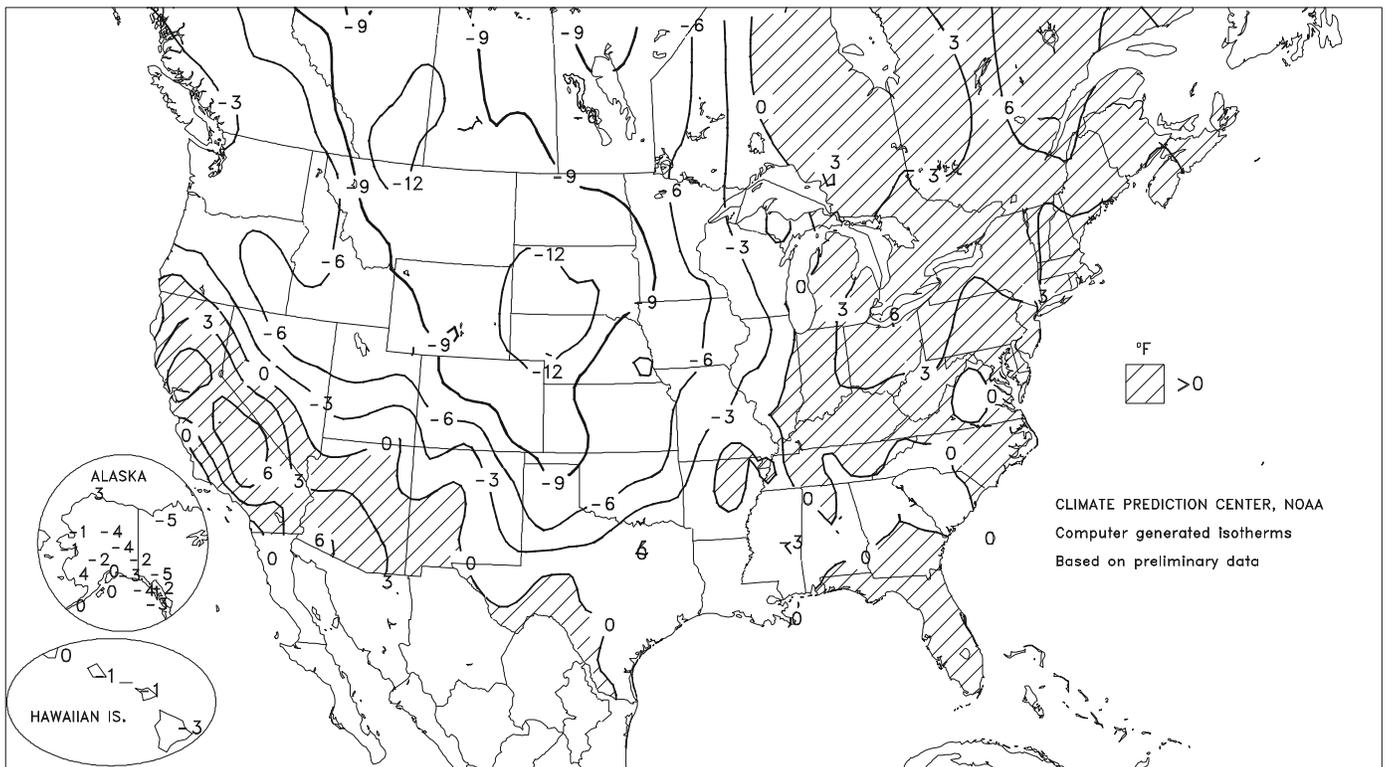
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Departure of Average Temperature from Normal (°F)

SEP 26 - OCT 2, 1999



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