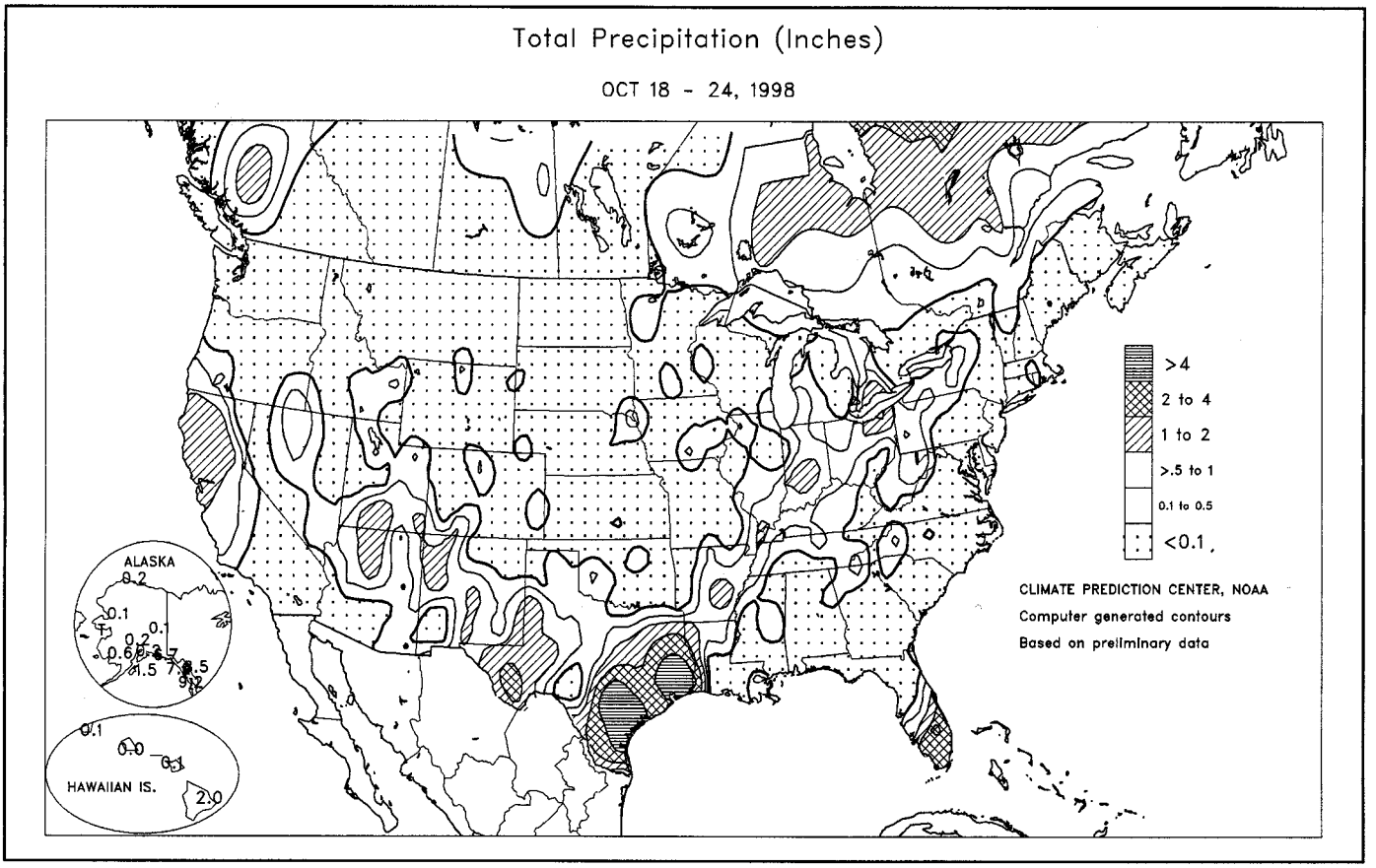
Volume 85, No. 43 October 27, 1998

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



HIGHLIGHTS

October 18 - 24, 1998

Heavy rain continued across **southeastern Texas** early in the week, causing extensive lowland flooding. River flooding persisted in the region through week's end as crests edged downstream toward the **Gulf of Mexico**. At midweek, rain developed across **western Texas** and **southeastern New Mexico**, slowing cotton harvesting but providing much-needed moisture for winter wheat development. Scattered mid- to late-week showers also dampened cotton areas of **southern Arizona** and **California's San Joaquin Valley**. Heavier rain (1 to 2 inches) soaked **California's Sacramento Valley** on Saturday, halting fieldwork. Mostly dry weather prevailed in the **Plains, Midwest, Ohio Valley,** and **East,**

(Continued on page 5)

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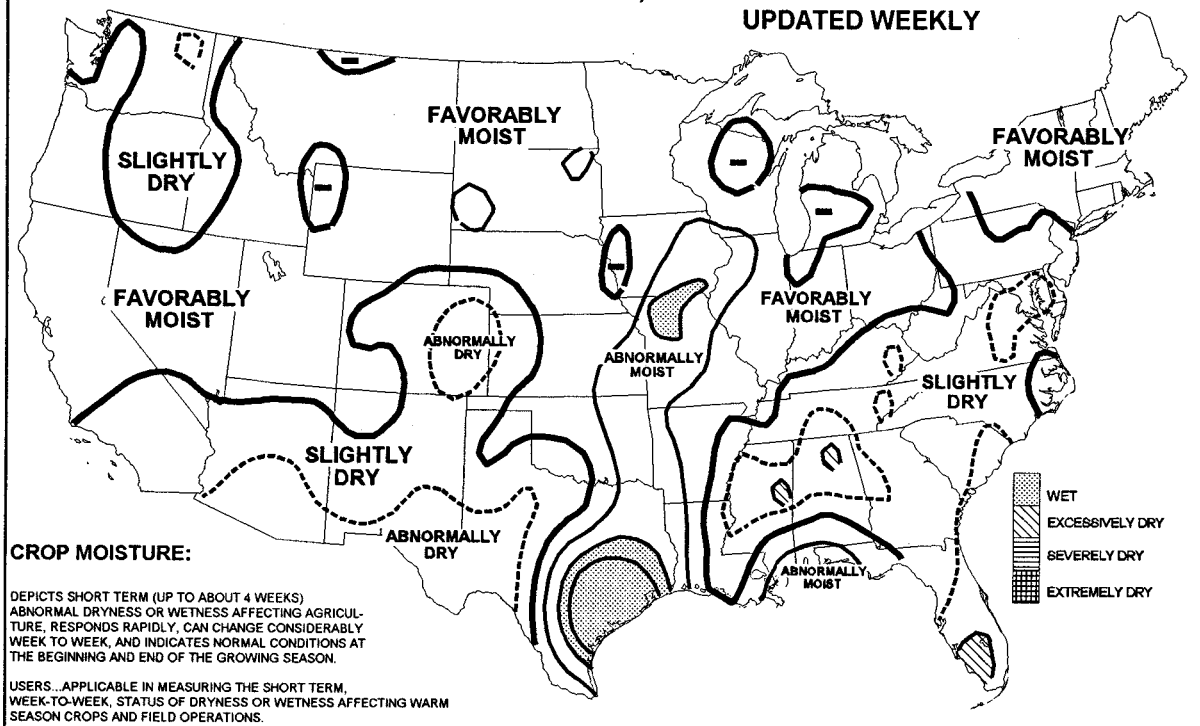
CROP MOISTURE

(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

October 24, 1998

UPDATED WEEKLY



CROP MOISTURE:

DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USERS...APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.

LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55 DEG F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

Last chart of season

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

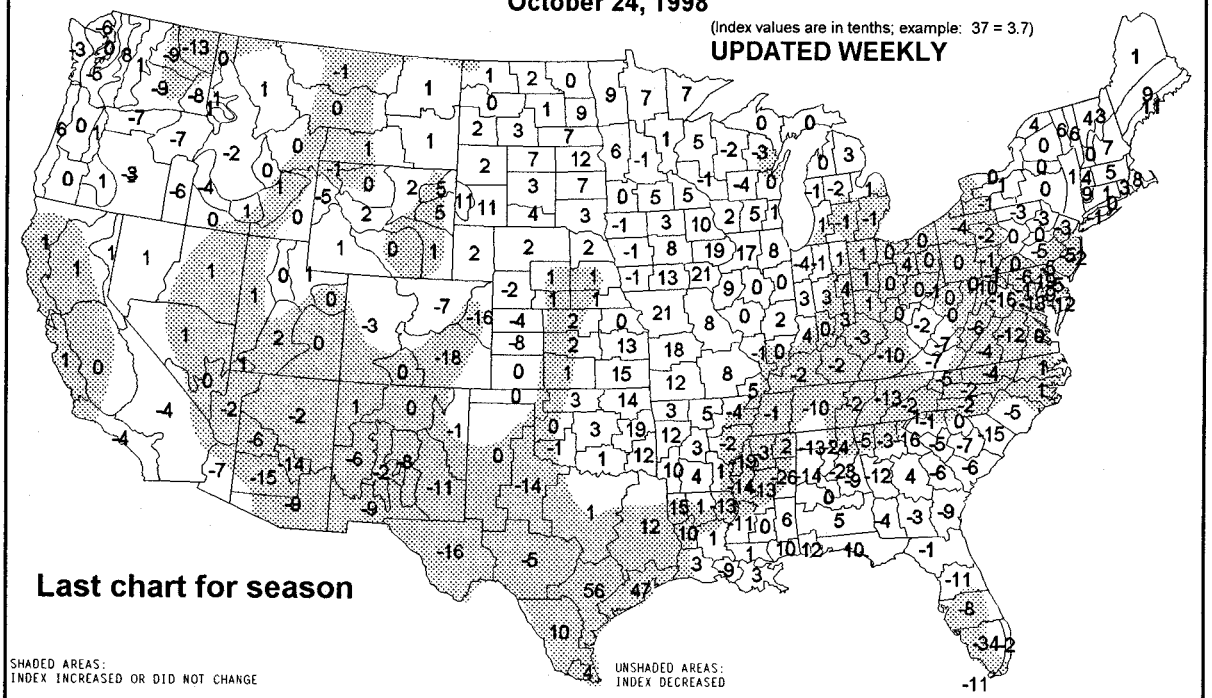
CROP MOISTURE INDEX

(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)

October 24, 1998

(Index values are in tenths; example: 37 = 3.7)

UPDATED WEEKLY



Last chart for season

SHADED AREAS:
INDEX INCREASED OR DID NOT CHANGE

ABOVE 3	EXCESSIVELY WET; SOME FIELDS FLOODED
2 TO 3	TOO WET; SOME STANDING WATER
1 TO 2	SOME FIELDS TOO WET; PROSPECTS ABOVE NORMAL
0 TO 1	MOISTURE ADEQUATE FOR PRESENT CROP NEEDS
0 TO -1	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2	SOME IMPROVEMENT BUT STILL ABNORMALLY DRY
-2 TO -3	DRYNESS EASED BUT FIELDS STILL EXCESSIVELY DRY
-3 TO -4	SEVERE DRYNESS CONTINUES; MORE RAIN URGENTLY NEEDED
BELOW -4	NOT ENOUGH RAIN; STILL EXTREMELY DRY

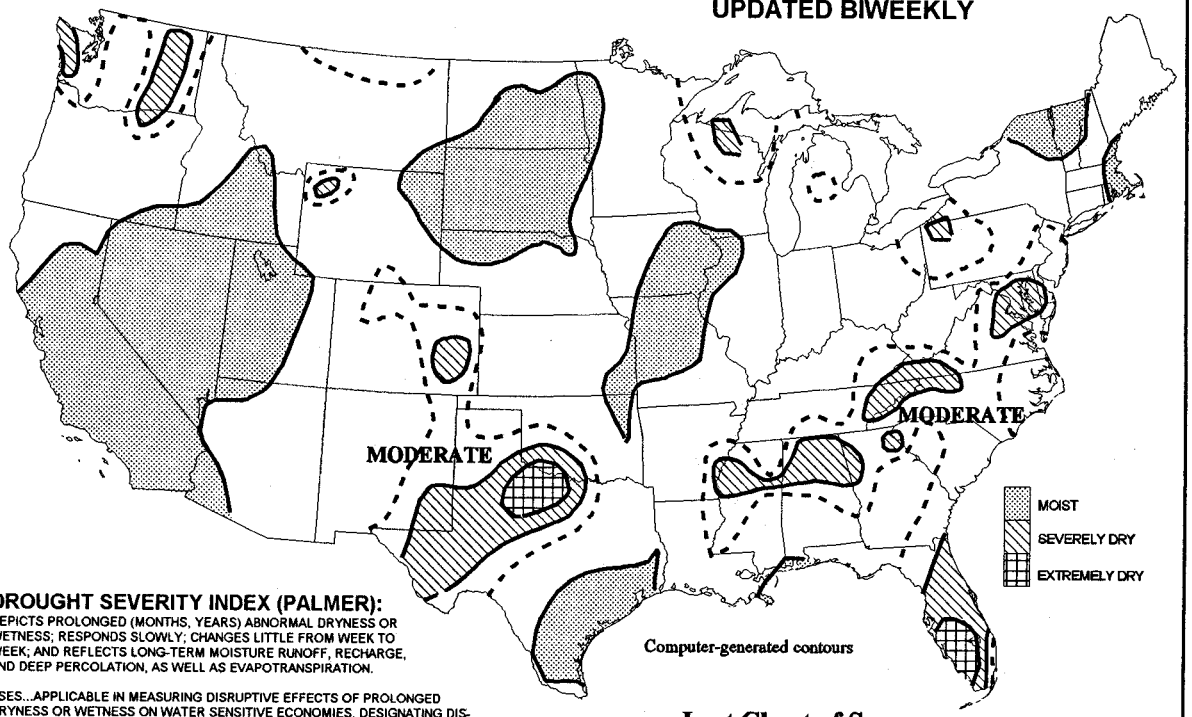
UNSHADED AREAS:
INDEX DECREASED

ABOVE 3	SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3	MORE DRY WEATHER NEEDED; WORK DELAYED
1 TO 2	FAVORABLE EXCEPT STILL TOO WET IN SPOTS
0 TO 1	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1	TOPSOIL MOISTURE SHORT; GERMINATION SLOW
-1 TO -2	ABNORMALLY DRY; PROSPECTS DETERIORATING
-2 TO -3	EXCESSIVELY DRY; YIELD PROSPECTS REDUCED
-3 TO -4	POTENTIAL YIELDS SEVERELY CUT BY DRYNESS
BELOW -4	EXTREMELY DRY; MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

DROUGHT SEVERITY
(LONG TERM, PALMER)
October 24, 1998

UPDATED BIWEEKLY



Last Chart of Season

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.

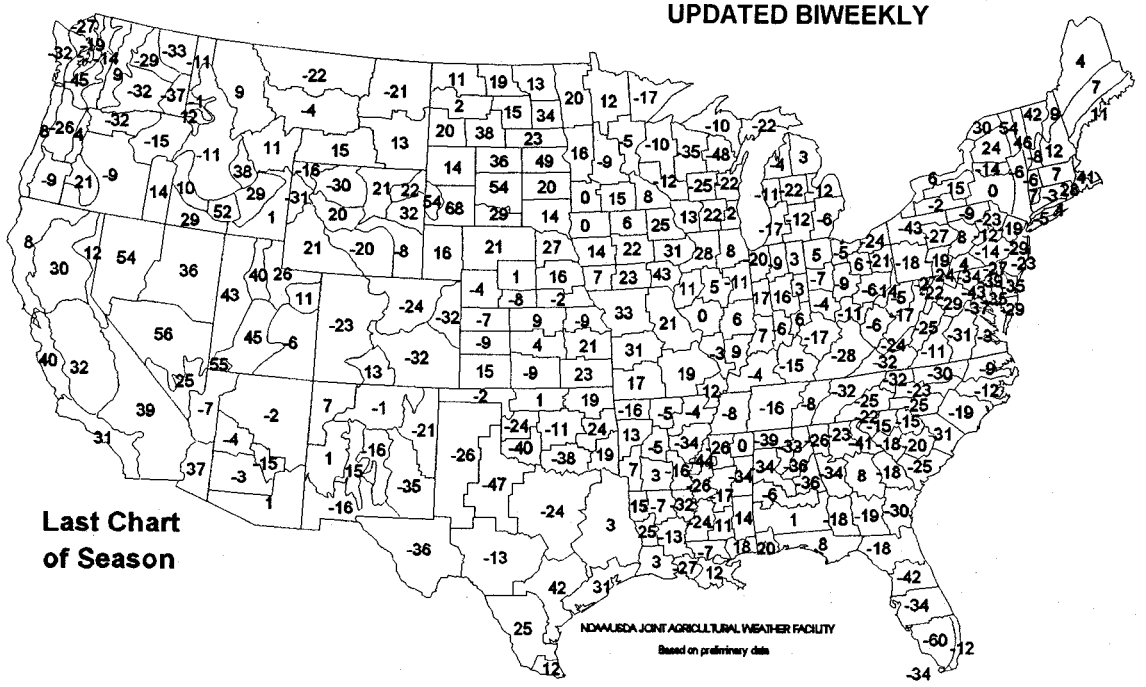
USES...APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

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).

DROUGHT SEVERITY INDEX BY DIVISION
(LONG TERM, PALMER)
October 24, 1998

(Index values are in tenths; example: 37 = 3.7)

UPDATED BIWEEKLY

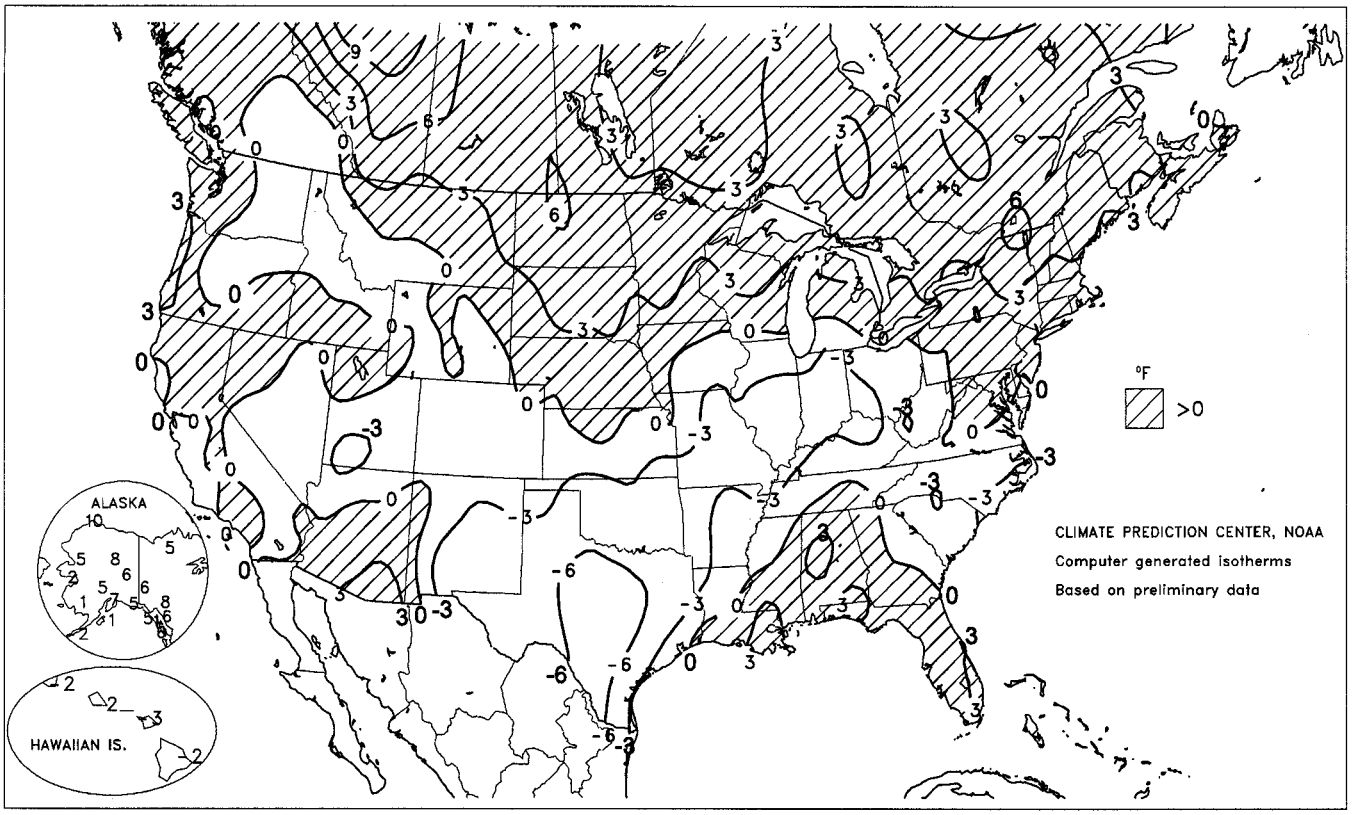


0.4 to -0.4 NEAR NORMAL
-0.5 to -0.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to -2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT

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

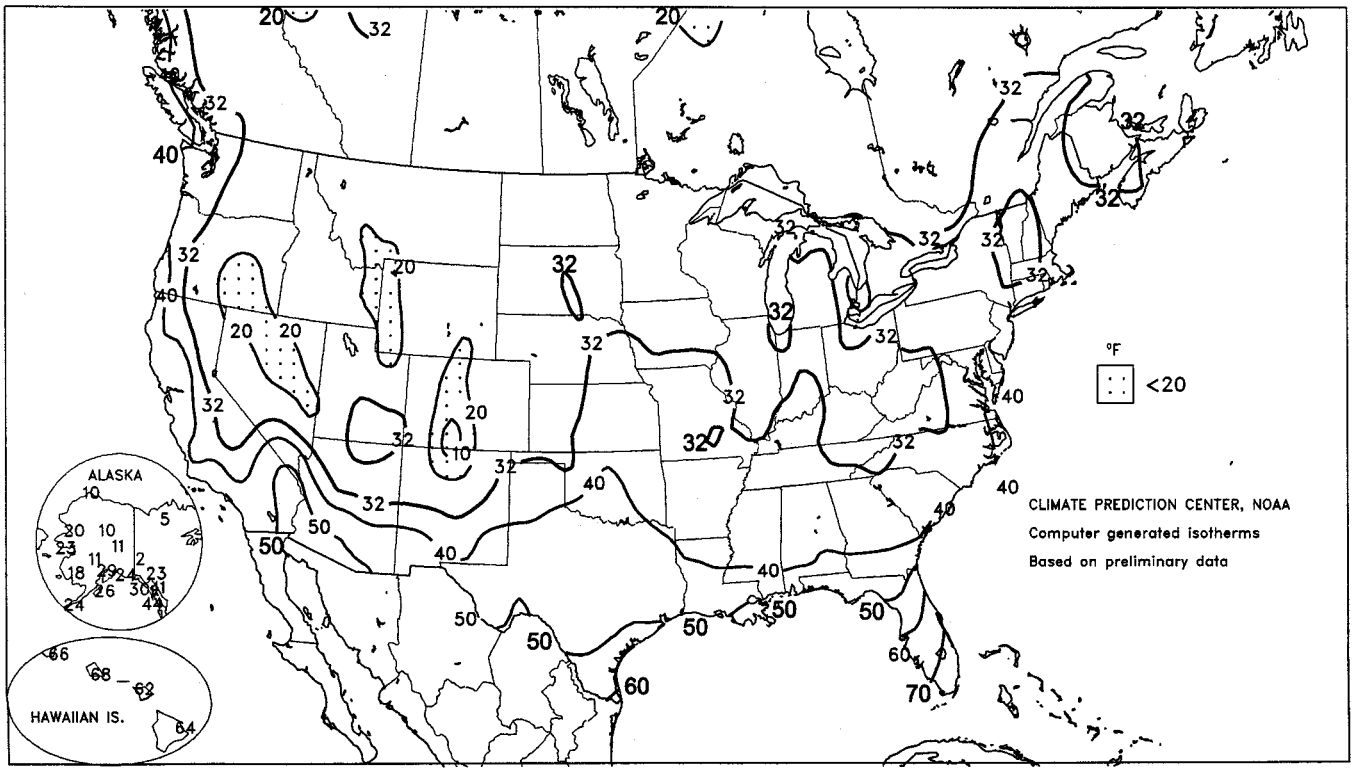
Departure of Average Temperature from Normal (°F)

OCT 18 - 24, 1998



Extreme Minimum Temperature (°F)

OCT 18 - 24, 1998

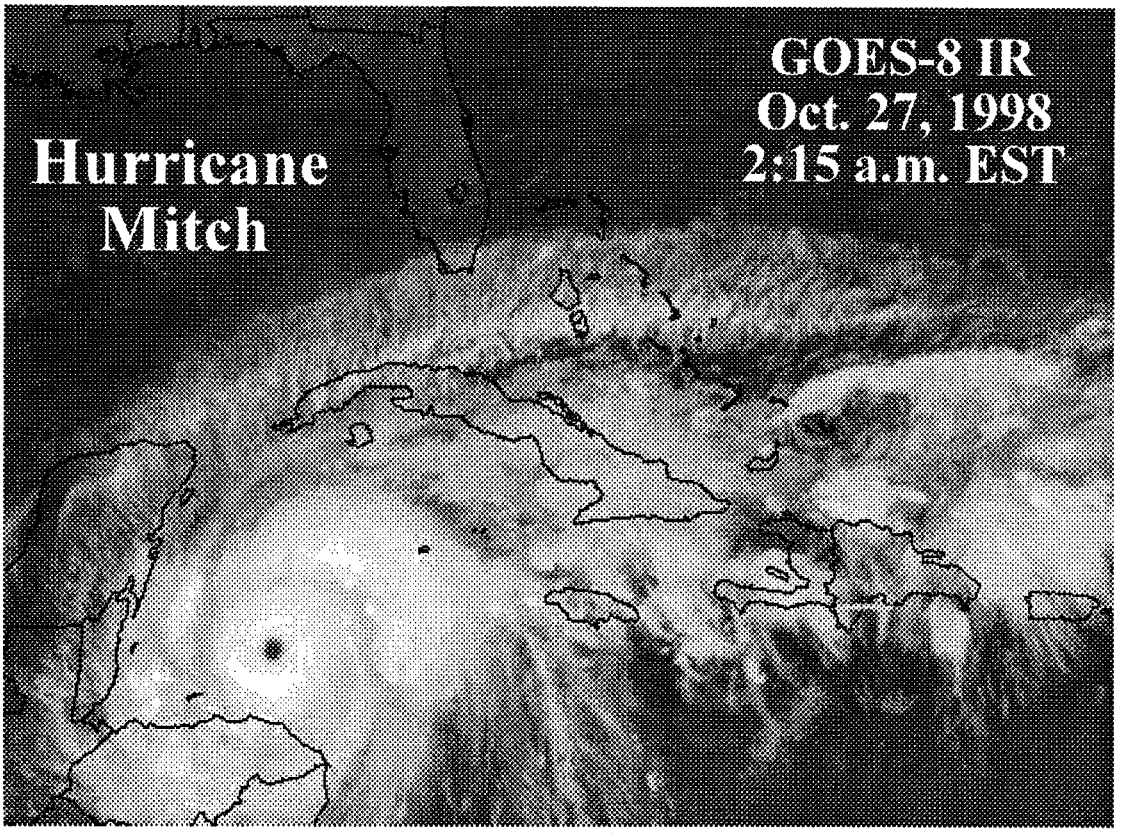


(Continued from front cover)
promoting summer-crop harvesting and winter wheat planting. Weekly temperatures ranged from 7°F below normal in parts of **Texas** to as much as 5°F above normal across the **Nation's northern tier**. A late-week cool snap in the **East** ended the growing season–approximately on schedule or slightly later than normal–in much of the **Corn Belt** and **Ohio Valley**, and resulted in widespread frost as far south as the central portions of **Mississippi, Alabama**, and **Georgia**.

Early in the week, heavy rain persisted in **southeastern Texas**. On Sunday, daily-rainfall records were established in **Houston** (4.04 inches) and **San Antonio** (3.19 inches). Scattered showers lingered through Wednesday, boosting storm-total (October 17-21) rainfall to 15.66 inches in **San Antonio** and 8.97 inches in **Austin**. **San Antonio's** October rainfall (18.06 inches) reached an all-time monthly record total. **Austin's** monthly total rose to 12.33 inches, their greatest October rainfall since 1925. On the **San Bernard River** near **Boling, TX**, an estimated crest near 24.7 feet above flood stage occurred on Wednesday, slightly above the record set on June 28, 1960. The **Colorado River** at **Wharton, TX**, crested on Friday at about 9.8 feet above flood stage, 3.5 feet above the December 1991 crest, but more than 2 inches below the record set on July 3, 1940. Along the **Guadalupe River**, peak stages at **Cuero** and **Victoria** were calculated to be two to three times greater than the 100-year peak discharge. The river crested approximately 30 feet above flood stage in **Cuero**.

By midweek, the focus of significant rainfall shifted into **western Texas** and the **Four Corners region**. Some of the rain continued to be associated with tropical activity, including remnant moisture from the eastern Pacific Hurricane Madeline. **Midland, TX** received 0.70 inches on October 20-21, boosting their year-to-date rainfall to 4.00 inches (30 percent of normal). Localized totals in excess of 1 inch were observed from **northern Arizona** to **western Texas**. At week's end, a winter-like storm arrived in **California**. On Saturday, daily-record rains were reported in **Redding** (2.16 inches), **Red Bluff** (2.09 inches), **Stockton** (1.01 inches), and **Bakersfield** (0.24 inches). By Sunday morning, October 25, **Austin, NV** reported a snow depth of 3 inches.

From October 18-22, warm weather continued in the **Southeast** and overspread the **Pacific Northwest**, resulting in more than two dozen daily-record highs. On Monday, **Florence, SC** recorded a high of 88°F. A day later, **Tallahassee, FL** logged 89°F, while **Newport, OR** posted their first of two daily records (75 and 80°F). Warm air advanced onto the **Plains** toward week's end, producing a daily-record high (76°F on Friday) in **Bismarck, ND**. Farther east, however, sharply cooler air arrived in the **East**. On Friday, daily-record lows in **North Carolina** included 29°F in **Raleigh-Durham** and 31°F in **Charlotte**. In **Indiana, Indianapolis'** growing season ended at 212 days (March 25 to October 22), their longest since 1941. A day later, lows dipped to daily-record levels in **Bristol, TN** (28°F) and **Meridian, MS** (34°F).



Hurricane Mitch: Shown here near peak strength with 180 mph sustained winds, Hurricane Mitch threatens northern Honduras, Belize, and Mexico's Yucatan Peninsula. A few hours earlier, Mitch's minimum central barometric pressure dipped to 905 millibars (26.72 inches), tying it with Hurricane Camille for the fourth-lowest pressure on record in the Atlantic Basin. Only Gilbert in 1988 (888 mb), an unnamed storm in 1935 (892 mb), and Allen in 1980 (899 mb) were stronger. In addition, the last intense October hurricane in the western Caribbean Sea was Hurricane Hattie in 1961, which reached an estimated minimum central pressure of 924 millibars on the 30th.

National Weather Data for Selected Cities

CORRECTION: Weather Data for the Week Ending October 17, 1998

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7503) and the Southern Regional Climate Center

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	81	53	82	49	67	4	0.02	-0.59	0.01	2.23	41	56.19	128	90	35	0	0	2	0
	HUNTSVILLE	81	51	83	46	66	4	0.00	-0.70	0.00	2.87	49	35.62	79	94	32	0	0	0	0
	MOBILE	82	59	85	54	70	1	0.02	-0.61	0.01	25.54	334	79.41	149	96	50	0	0	2	0
	MONTGOMERY	83	54	84	52	68	2	0.04	-0.48	0.01	10.27	189	45.56	106	96	44	0	0	4	0
AK	ANCHORAGE	43	32	49	26	37	2	0.17	-0.31	0.08	0.93	24	9.46	73	96	56	0	5	3	0
	BARROW	33	27	35	18	30	16	0.29	0.18	0.17	1.36	158	3.65	97	93	81	0	7	5	0
	FAIRBANKS	38	19	42	14	29	2	0.11	-0.08	0.08	1.30	92	9.70	110	93	51	0	7	2	0
	JUNEAU	46	36	49	26	41	-2	1.24	-0.59	0.33	8.55	76	37.14	89	100	73	0	2	6	0
	KODIAK	47	36	51	31	41	0	6.15	4.50	2.72	21.07	191	88.89	172	93	55	0	2	6	3
	NOME	36	29	42	22	32	3	0.68	0.37	0.55	4.62	141	21.61	173	97	73	0	6	4	1
AZ	FLAGSTAFF	62	27	72	18	44	-4	0.09	-0.27	0.06	4.54	155	22.18	125	75	18	0	6	2	0
	PHOENIX	97	61	97	51	74	-1	0.00	-0.14	0.00	0.58	47	8.63	150	37	14	4	0	0	0
	TUCSON	88	54	98	41	71	0	0.00	-0.24	0.00	1.10	47	12.26	124	35	11	4	0	0	0
	YUMA	88	62	97	57	75	-2	0.00	-0.06	0.00	2.26	514	4.38	186	51	13	4	0	0	0
AR	FORT SMITH	80	55	86	49	68	5	1.74	0.92	1.32	11.00	212	38.01	118	96	49	0	0	5	1
	LITTLE ROCK	80	57	82	50	68	4	0.13	-0.68	0.10	6.95	115	33.70	86	97	48	0	0	2	0
CA	BAKERSFIELD	74	48	78	45	61	-8	0.00	-0.06	0.00	0.31	111	11.99	284	73	29	0	0	0	0
	EUREKA	64	44	71	37	54	-1	0.74	0.25	0.74	2.34	121	42.61	189	99	57	0	0	2	1
	FRESNO	75	49	79	45	62	-4	0.00	-0.10	0.00	0.15	33	16.12	217	80	29	0	0	0	0
	LOS ANGELES	72	58	78	55	65	-2	0.02	-0.03	0.01	0.03	7	23.85	287	98	60	0	0	2	0
	REDDING	73	47	77	37	60	-5	0.00	-0.45	0.00	0.06	3	47.46	223	66	20	0	0	0	0
	SACRAMENTO	75	48	78	40	62	-3	0.00	-0.21	0.00	0.30	38	23.74	205	82	24	0	0	0	0
	SAN DIEGO	70	61	76	55	65	-3	0.00	-0.06	0.00	0.03	9	14.30	215	88	61	0	0	0	0
	SAN FRANCISCO	67	52	72	48	60	-2	0.01	-0.24	0.01	0.13	19	28.71	222	85	44	0	0	1	0
CO	ALAMOSA	64	25	72	18	45	0	0.00	-0.17	0.00	1.00	77	4.97	78	70	13	0	6	0	0
	CO SPRINGS	66	40	78	34	53	2	0.00	-0.19	0.00	0.76	42	14.94	100	63	19	0	0	0	0
	DENVER	66	37	79	29	52	-1	0.07	-0.15	0.05	1.55	86	15.04	112	73	29	0	2	2	0
	GRAND JUNCTION	69	41	77	36	55	0	0.11	-0.11	0.01	1.57	115	7.19	104	57	17	0	0	2	0
	PUEBLO	75	37	87	32	56	1	0.82	0.68	0.43	2.07	167	11.04	110	71	15	0	1	2	0
CT	BRIDGEPORT	63	51	69	45	57	1	1.24	0.55	1.18	5.49	117	39.39	120	91	60	0	0	3	1
	HARTFORD	61	46	69	35	53	1	2.31	1.51	2.13	7.77	136	41.70	121	97	63	0	0	4	1
DC	WASHINGTON	68	52	73	47	60	0	0.02	-0.67	0.00	2.55	51	33.40	108	87	50	0	0	1	0
DE	WILMINGTON	66	49	72	41	58	1	0.29	-0.34	0.24	4.58	91	34.24	104	92	53	0	0	2	0
FL	DAYTONA BEACH	84	70	86	64	77	3	0.30	-0.65	0.15	7.09	80	36.97	90	92	59	0	0	2	0
	JACKSONVILLE	80	63	82	59	72	2	0.32	-0.35	0.31	10.73	119	54.15	119	97	60	0	0	2	0
	KEY WEST	86	77	87	74	82	1	2.17	1.16	1.33	15.72	185	33.36	101	87	65	0	0	3	2
	MIAMI	86	76	87	72	81	2	2.68	1.35	2.45	17.96	162	59.46	121	85	59	0	0	4	1
	ORLANDO	87	70	90	68	79	3	0.28	-0.26	0.24	5.89	78	42.32	99	96	49	1	0	2	0
	PENSACOLA	81	62	83	56	72	2	0.00	-0.96	0.00	19.91	257	60.18	114	92	55	0	0	0	0
	TALLAHASSEE	84	58	85	52	71	2	0.00	-0.63	0.00	14.20	195	55.89	100	96	48	0	0	0	0
	TAMPA	85	71	87	70	78	3	0.11	-0.34	0.00	8.85	120	54.00	137	94	57	0	0	1	0
	WEST PALM BEACH	86	76	88	73	81	3	0.02	-1.50	0.02	13.99	113	55.22	109	83	56	0	0	1	0
GA	ATHENS	77	51	78	46	64	1	0.00	-0.74	0.00	6.78	132	46.39	115	98	42	0	0	0	0
	ATLANTA	77	54	78	51	66	3	0.00	-0.67	0.00	4.77	94	42.42	103	90	40	0	0	0	0
	AUGUSTA	80	48	81	45	64	0	0.00	-0.65	0.00	8.59	186	45.74	122	100	40	0	0	0	0
	COLUMBUS	81	55	81	52	68	1	0.00	-0.47	0.00	5.90	133	30.83	74	90	38	0	0	0	0
	MACON	80	50	81	46	65	0	0.09	-0.39	0.08	8.47	212	41.21	113	99	40	0	0	2	0
	SAVANNAH	80	57	83	54	69	1	0.00	-0.54	0.00	6.89	117	46.92	109	100	45	0	0	0	0
HI	HILO	80	69	82	65	74	-2	7.92	5.85	2.91	23.31	177	79.38	82	100	73	0	0	7	4
	HONOLULU	85	74	86	70	79	0	0.12	-0.38	0.06	0.26	14	2.87	20	86	57	0	0	2	0
	KAHULUI	84	70	85	64	77	-1	0.03	-0.23	0.02	0.70	82	3.82	27	87	55	0	0	1	0
	LIHUE	82	74	82	71	78	0	0.29	-0.69	0.08	1.89	41	17.31	57	85	65	0	0	7	0
ID	BOISE	62	38	79	26	50	-2	0.02	-0.13	0.02	2.01	175	14.04	158	72	28	0	1	1	0
	LEWISTON	56	40	61	33	48	-5	0.13	-0.06	0.06	2.49	192	13.86	143	92	53	0	0	4	0
	POCATELLO	60	31	76	24	46	-3	0.07	-0.12	0.00	2.16	165	11.46	122	79	25	0	3	1	0
IL	CHICAGO/O'HARE	67	48	80	39	58	4	2.73	2.20	2.70	6.59	127	33.37	114	93	52	0	0	2	1
	MOLINE	68	47	79	34	57	3	4.63	3.96	4.14	10.14	177	43.30	131	97	54	0	0	2	1
	PEORIA	69	48	79	36	59	4	1.07	0.48	0.63	3.72	69	36.29	121	93	50	0	0	4	1
	ROCKFORD	65	46	77	33	56	3	2.03	1.38	2.00	5.10	93	34.61	114	95	52	0	0	4	1
	SPRINGFIELD	73	48	81	35	60	4	1.13	0.54	0.63	3.14	86	40.04	139	92	45	0	0	2	2
IN	EVANSVILLE	77	48	83	41	63	5	0.02	-0.61	0.01	2.45	55	35.99	105	92	40	0	0	2	0
	FORT WAYNE	68	45	78	39	57	3	0.00	-0.55	0.00	4.63	116	35.00	125	88	44	0	0	0	0
	INDIANAPOLIS	72	48	79	37	60	4	0.00	-0.58	0.00	6.53	153	44.62	139	85	42	0	0	0	0
	SOUTH BEND	67	47	78	41	57	4	0.08	-0.61	0.06	2.34	44	30.19	97	93	54	0	0	3	0
IA	BURLINGTON	72	51	83	42	62	7	3.51	2.84	3.47	13.43	229	45.59	149	84	48	0	0	2	1
	CEDAR RAPIDS	65	43	77	33	54	1	0.37	-0.15	0.21	5.37	101	37.52	128	96	59	0	0	5	0
	DES MOINES	68	47	76	39	58	3	1.35	0.75	1.23	3.80	75	38.11	132	88	55	0	0	2	1
	DUBUQUE	63	45	75	34	54	2	1.77	1.16	1.15	7.67	122	41.30	127	93	59	0	0	3	2
	SIOUX CITY	72	45	81	32	59	6	0.12	-0.33	0.08	2.58	63	27.79	120	87	51	0	1	3	0
	WATERLOO	64	43	76	32	53	2	1.32	0.73	0.81	5.28	105	41.55	141	94	56	0	1	4	1
KS	CONCORDIA	74	52	81	41	63	6	0.21	-0.25	0.21	6.11	144	28.59	110	88	46	0	0	1	0
	DODGE CITY	78	51	91	39	65	6	0.22	-0.08	0.20	2.15	80	17.40	89	88	36	1	0	2	0
	GOODLAND	69	40	82	33	55	2	0.24	0.04	0.24	1.56	74	15.63	94	86	34	0	0	1	0
	TOPEKA	76	53	82	40	65	7	0.81	0.10	0.39	7.39	132	33.50	109	92	47	0	0	4	0

Based on 1961-90 normals

CORRECTION: Weather Data for the Week Ending October 17, 1998

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	76	56	82	49	66	6	0.96	0.45	0.53	5.72	118	23.45	91	92	52	0	0	2	1
KY	JACKSON	71	47	80	42	59	2	0.00	-0.70	0.00	3.87	72	44.44	112	89	36	0	0	0	0
	LEXINGTON	71	46	78	39	59	1	0.01	-0.64	0.01	2.52	55	43.96	122	90	41	0	0	1	0
	LOUISVILLE	76	52	82	46	64	5	0.01	-0.58	0.01	2.93	64	42.33	118	90	42	0	0	1	0
	PADUCAH	78	49	84	43	64	4	0.01	-0.62	0.01	6.79	128	48.93	126	93	39	0	0	1	0
LA	BATON ROUGE	84	59	87	51	71	2	0.00	-0.77	0.00	10.79	159	49.89	101	99	52	0	0	0	0
	LAKE CHARLES	84	64	86	58	74	4	0.48	-0.40	0.47	17.92	225	49.98	114	98	56	0	0	2	0
	NEW ORLEANS	82	64	85	56	73	3	0.34	-0.32	0.24	20.93	288	73.50	146	96	56	0	0	2	0
	SHREVEPORT	81	60	87	51	70	3	0.16	-0.67	0.12	12.98	257	39.25	110	98	54	0	0	5	0
ME	CARIBOU	51	40	58	33	46	2	0.20	-0.49	0.10	4.54	88	31.25	110	95	70	0	0	3	0
	PORTLAND	56	45	61	39	51	1	1.47	0.62	0.73	13.14	259	51.07	156	93	70	0	0	3	1
MD	BALTIMORE	67	45	73	38	56	-1	0.01	-0.65	0.00	2.45	49	32.10	98	96	49	0	0	1	0
MA	BOSTON	58	50	64	45	54	-2	1.07	0.34	0.89	8.09	169	50.40	159	91	69	0	0	2	1
	WORCESTER	56	46	65	39	51	0	0.20	-0.77	0.12	5.73	91	42.34	114	96	70	0	0	2	0
MI	ALPENA	59	41	73	35	50	2	0.92	0.45	0.88	7.56	175	29.43	124	96	63	0	0	3	1
	GRAND RAPIDS	63	46	74	38	55	5	0.64	0.02	0.64	4.88	84	28.19	98	94	54	0	0	1	1
	HOUGHTON LAKE	60	42	70	35	51	4	0.05	-0.43	0.03	5.88	125	20.60	89	95	58	0	0	2	0
	LANSING	63	45	73	37	54	4	0.12	-0.34	0.06	4.74	99	26.52	107	95	54	0	0	2	0
	MARQUETTE	60	40	72	24	50	5	0.65	-0.18	0.30	5.71	93	34.66	123	92	57	0	2	4	0
	MUSKEGON	63	47	75	40	55	4	1.27	0.65	1.24	6.32	116	23.64	94	91	56	0	0	3	1
MN	DULUTH	53	41	68	32	47	2	2.67	2.00	1.91	6.83	128	27.57	106	96	75	0	1	5	1
	INT'L FALLS	49	38	57	32	43	0	2.72	2.26	0.79	4.09	93	20.09	93	98	78	0	2	7	2
	MINNEAPOLIS	60	43	71	31	52	2	1.56	1.06	0.92	3.06	77	31.17	126	90	62	0	1	5	2
	ROCHESTER	59	40	66	30	49	1	1.64	1.10	0.63	3.95	81	28.95	111	96	66	0	2	4	1
	ST. CLOUD	57	41	66	30	49	2	0.95	0.44	0.62	2.78	62	22.13	91	93	65	0	2	5	1
MS	JACKSON	85	53	88	47	69	4	0.00	-0.70	0.00	2.72	52	40.79	95	98	41	0	0	0	0
	MERIDIAN	83	52	85	45	67	3	0.28	-0.38	0.28	3.09	60	46.73	104	100	42	0	0	1	0
	TUPELO	81	52	85	45	67	3	0.00	-0.74	0.00	3.10	57	40.10	93	91	38	0	0	0	0
MO	COLUMBIA	73	51	79	41	62	4	1.23	0.50	1.18	11.24	198	41.44	128	96	54	0	0	3	1
	KANSAS CITY	75	53	80	45	64	6	2.32	1.56	1.42	14.86	216	42.05	128	89	55	0	0	2	2
	SAINT LOUIS	75	52	80	44	63	4	0.73	0.14	0.41	3.33	73	39.03	130	87	43	0	0	2	0
	SPRINGFIELD	73	51	80	42	62	4	0.90	0.10	0.89	9.74	146	43.47	126	94	54	0	0	2	1
MT	BILLINGS	54	36	64	30	45	-5	0.60	0.34	0.37	2.00	98	12.76	98	94	48	0	2	3	0
	BUTTE	52	28	67	18	40	-2	0.22	0.06	0.10	1.49	88	13.50	124	92	37	0	5	3	0
	GLASGOW	49	35	64	29	42	-5	0.87	0.73	0.35	3.32	239	12.90	128	96	66	0	2	3	0
	GREAT FALLS	53	34	67	29	43	-5	0.25	0.07	0.13	1.87	109	15.80	118	91	49	0	4	2	0
	KALISPELL	52	30	57	20	41	-2	0.06	-0.13	0.03	2.16	124	17.30	133	96	49	0	4	3	0
	MILES CITY	54	37	64	29	46	-4	0.44	0.23	0.26	2.02	110	12.14	97	96	55	0	1	3	0
	MISSOULA	52	31	62	21	42	-4	0.19	0.02	0.09	1.67	108	17.68	158	95	45	0	3	4	0
NE	GRAND ISLAND	72	48	80	35	60	7	0.24	-0.07	0.24	1.46	39	23.06	102	92	49	0	0	1	0
	LINCOLN	74	49	79	36	61	7	0.47	-0.02	0.39	4.11	86	29.81	118	91	51	0	0	2	0
	NORFOLK	71	45	79	34	58	6	0.21	-0.16	0.20	2.85	83	31.55	138	93	51	0	0	2	0
	NORTH PLATTE	65	38	76	28	52	1	0.11	-0.11	0.09	2.09	95	20.16	113	97	49	0	4	3	0
	OMAHA	72	50	80	36	61	7	0.39	-0.13	0.37	3.30	64	37.91	143	90	51	0	0	2	0
	SCOTTSBLUFF	61	37	74	30	49	-2	0.24	0.05	0.11	2.75	177	14.77	108	96	42	0	2	3	0
	VALENTINE	59	38	68	29	48	-2	1.10	0.89	0.49	3.11	149	21.59	128	98	57	0	2	3	0
NV	ELY	59	25	73	17	42	-5	0.23	0.03	0.23	1.21	78	10.25	121	71	20	0	6	1	0
	LAS VEGAS	78	56	88	54	67	-2	0.00	-0.05	0.00	1.29	349	6.37	201	34	13	0	0	0	0
	RENO	63	36	75	28	50	-2	0.00	-0.08	0.00	2.17	409	10.87	199	78	25	0	1	0	0
	WINNEMUCCA	57	26	70	12	41	-8	0.00	-0.14	0.00	2.81	413	13.13	215	81	26	0	5	0	0
NH	CONCORD	59	44	69	30	51	3	0.91	0.19	0.67	5.07	113	32.30	115	94	62	0	1	3	1
NJ	NEWARK	65	52	73	46	59	0	0.30	-0.36	0.28	4.31	81	41.34	117	93	57	0	0	2	0
NM	ALBUQUERQUE	73	47	83	38	60	2	0.00	-0.21	0.00	0.23	15	7.43	99	49	18	0	0	0	0
NY	ALBANY	60	45	63	36	52	1	0.82	0.19	0.65	6.22	138	36.37	127	98	69	0	0	3	1
	BINGHAMTON	58	42	66	35	50	1	0.36	-0.27	0.21	5.36	109	35.79	122	99	59	0	0	2	0
	BUFFALO	63	44	74	41	53	2	0.53	-0.16	0.50	4.20	81	31.33	106	95	53	0	0	3	1
	ROCHESTER	61	41	71	36	51	-1	0.18	-0.37	0.15	4.38	102	38.88	154	98	60	0	0	2	0
	SYRACUSE	61	44	68	39	53	1	0.58	-0.14	0.43	4.34	78	32.79	107	96	60	0	0	2	0
NC	ASHEVILLE	72	43	76	36	58	1	0.02	-0.78	0.01	3.22	55	42.03	108	99	41	0	0	2	0
	CHARLOTTE	74	48	77	45	61	-1	0.00	-0.77	0.00	5.54	103	35.86	103	98	43	0	0	0	0
	GREENSBORO	73	48	75	44	60	1	0.01	-0.79	0.01	3.06	56	41.52	119	95	45	0	0	1	0
	HATTERAS	72	58	74	56	65	-1	0.01	-1.12	0.01	9.15	114	56.94	128	83	57	0	0	1	0
	RALEIGH	74	46	77	43	60	-1	0.03	-0.60	0.01	6.43	135	46.89	138	100	45	0	0	3	0
	WILMINGTON	77	54	79	50	65	0	0.00	-0.59	0.00	6.74	102	58.69	126	96	44	0	0	0	0
ND	BISMARCK	50	32	59	25	41	-6	0.82	0.61	0.39	3.86	187	21.85	155	95	71	0	3	3	0
	DICKINSON	51	33	64	28	42	-5	0.96	0.73	0.86	6.39	278	23.25	156	96	63	0	2	2	1
	FARGO	50	38	59	29	44	-3	2.95	2.55	1.00	6.68	223	29.30	168	93	74	0	1	5	3
	GRAND FORKS	48	37	56	29	42	-3	2.69	2.39	1.87	4.95	162	20.50	124	98	79	0	2	5	1
	JAMESTOWN	47	35	54	27	41	-6	1.98	1.75	0.73	4.05	170	19.61	126	95	78	0	3	4	3
	WILLISTON	49	31	63	24	40	-6	0.65	0.47	0.49	3.73	204	15.41	125	97	68	0	5	3	0
OH	AKRON-CANTON	65	42	74	35	54	1	0.00	-0.52	0.00	3.29	71	34.70	117	93	48	0	0	0	0
	CINCINNATI	71	46	78	36	58	2	0.00	-0.63	0.00	2.45	56	44.19	133	93	41	0	0	0	0
	CLEVELAND	65	46	76	41	55	2	0.00	-0.56	0.00	2.68	55	28.43	97	89	52	0	0	0	0
	COLUMBUS	69	44	79	39	57	3	0.00	-0.47	0.00	3.53	86	31.53	102	94	42	0	0	0	0
	DAYTON	69	44	77	38	57	2	0.01	-0.54	0.00	2.87	75	34.13	116	86	40	0	0	1	0
	MANSFIELD	66	43	76	38	54	1	0.03	-0.47	0.02	2.56	55	33.41	104	92	45	0	0	2	0

Based on 1961-90 normals

CORRECTION: Weather Data for the Week Ending October 17, 1998

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	67	44	77	39	55	3	0.01	-0.46	0.01	2.03	51	29.33	112	95	50	0	0	1	0
	YOUNGSTOWN	64	41	75	36	53	0	0.00	-0.58	0.00	4.97	101	32.41	107	91	48	0	0	0	0
OK	OKLAHOMA CITY	79	59	81	55	69	6	1.51	0.76	1.27	10.80	184	30.08	105	94	58	0	0	2	1
	TULSA	78	55	82	45	67	4	1.36	0.53	1.34	13.62	199	41.16	122	94	49	0	0	2	1
OR	ASTORIA	58	46	62	37	52	-1	2.37	1.16	1.22	6.22	112	51.73	121	98	66	0	0	6	1
	BURNS	57	25	69	12	41	-5	0.03	-0.12	0.02	1.07	114	12.89	179	80	26	0	6	2	0
	EUGENE	61	44	64	39	52	-2	0.73	0.05	0.26	1.98	65	29.80	98	97	59	0	0	5	0
	MEDFORD	61	41	69	33	51	-4	0.46	0.16	0.33	1.14	76	19.10	167	87	42	0	0	4	0
	PENDLETON	61	40	68	31	50	-3	0.07	-0.11	0.07	1.32	132	10.36	123	88	41	0	1	1	0
	PORTLAND	59	48	64	40	53	-2	0.60	0.04	0.21	3.02	102	28.03	120	97	59	0	0	5	0
	SALEM	59	44	63	36	51	-2	1.04	0.43	0.45	2.72	95	31.22	128	97	61	0	0	6	0
PA	ALLENTOWN	65	46	68	37	55	1	0.08	-0.55	0.08	6.28	114	36.47	105	92	53	0	0	1	0
	ERIE	62	46	77	42	54	0	0.18	-0.67	0.04	3.34	51	28.01	87	92	56	0	0	5	0
	MIDDLETOWN	67	49	75	43	58	3	0.01	-0.64	0.01	3.68	72	43.67	135	89	47	0	0	1	0
	PHILADELPHIA	66	52	72	46	59	2	0.23	-0.35	0.12	3.67	76	29.63	88	84	53	0	0	2	0
	PITTSBURGH	65	41	76	37	53	0	0.00	-0.52	0.00	2.85	67	30.39	101	92	45	0	0	0	0
	WILKES-BARRE	62	45	68	34	53	1	0.26	-0.36	0.26	5.82	120	33.30	114	97	56	0	0	1	0
	WILLIAMSPORT	64	43	71	36	54	1	0.20	-0.54	0.16	4.03	78	37.98	117	95	52	0	0	2	0
RI	PROVIDENCE	60	49	67	40	55	0	0.18	-0.64	0.10	4.58	85	47.17	135	94	63	0	0	2	0
SC	BEAUFORT	79	59	82	57	69	1	0.00	-0.58	0.00	7.63	116	47.17	105	99	48	0	0	0	0
	CHARLESTON	79	57	80	56	68	1	0.01	-0.65	0.01	16.71	259	63.20	141	95	44	0	0	1	0
	COLUMBIA	78	50	80	47	64	0	0.00	-0.69	0.00	6.83	127	43.10	102	94	38	0	0	0	0
	GREENVILLE	75	51	77	47	63	2	0.01	-0.90	0.01	8.81	143	47.09	113	95	44	0	0	1	0
SD	ABERDEEN	52	37	59	25	44	-4	4.07	3.81	1.81	6.85	268	26.41	154	95	72	0	1	5	4
	HURON	58	39	65	29	49	-1	1.58	1.23	1.25	3.16	122	21.13	116	92	65	0	1	4	1
	RAPID CITY	55	36	63	29	46	-4	2.74	2.48	1.38	6.52	345	19.39	128	96	56	0	1	4	2
	SIOUX FALLS	62	41	69	30	52	2	1.57	1.16	1.40	5.69	137	26.92	126	93	59	0	1	5	1
TN	BRISTOL	74	42	81	37	58	1	0.01	-0.57	0.01	2.54	54	37.12	112	99	35	0	0	1	0
	CHATTANOOGA	79	48	81	46	64	3	0.00	-0.69	0.00	2.13	36	44.60	106	98	35	0	0	0	0
	KNOXVILLE	75	48	77	44	61	2	0.02	-0.61	0.01	2.71	59	45.43	121	98	39	0	0	2	0
	MEMPHIS	81	57	85	49	69	5	0.00	-0.64	0.00	3.63	71	45.58	114	90	41	0	0	0	0
	NASHVILLE	78	49	82	44	64	2	0.00	-0.56	0.00	2.91	60	42.81	115	92	35	0	0	0	0
TX	ABILENE	83	61	87	55	72	5	0.33	-0.26	0.17	0.51	11	10.37	50	93	42	0	0	2	0
	AMARILLO	80	52	89	43	66	7	0.31	-0.01	0.21	2.52	90	11.21	63	86	25	0	0	2	0
	AUSTIN	83	66	87	58	75	3	6.98	6.18	6.98	17.12	325	31.48	120	99	64	0	0	1	1
	BEAUMONT	84	66	87	61	75	5	0.02	-0.94	0.01	14.02	160	47.55	104	95	58	0	0	2	0
	BROWNSVILLE	86	69	91	63	78	2	1.01	0.36	0.74	9.98	126	14.41	63	98	64	1	0	5	1
	CORPUS CHRISTI	87	70	88	66	78	4	0.03	-0.67	0.02	10.71	143	21.60	82	96	59	0	0	2	0
	DEL RIO	83	67	85	63	75	3	0.15	-0.38	0.11	2.57	61	26.39	166	93	56	0	0	2	0
	EL PASO	85	58	90	50	71	7	0.00	-0.18	0.00	0.78	35	4.07	53	47	20	1	0	0	0
	FORT WORTH	82	63	87	56	73	5	0.89	0.07	0.43	6.04	112	24.63	88	94	54	0	0	2	1
	GALVESTON	84	73	86	68	78	5	0.14	-0.45	0.14	16.76	217	54.43	159	96	71	0	0	1	0
	HOUSTON	86	66	89	58	75	5	0.56	-0.41	0.30	12.69	173	35.31	95	96	58	0	0	4	0
	LUBBOCK	83	57	87	50	70	8	0.00	-0.44	0.00	1.16	31	10.60	64	88	26	0	0	0	0
	MIDLAND	86	60	93	54	73	8	0.00	-0.41	0.00	0.28	8	3.33	25	86	32	1	0	0	0
	SAN ANGELO	82	59	85	53	71	4	0.29	-0.28	0.16	0.69	14	9.63	54	94	48	0	0	2	0
	SAN ANTONIO	83	65	87	56	74	3	11.26	10.54	11.25	15.24	293	33.89	133	96	56	0	0	2	1
	VICTORIA	85	68	87	63	76	4	0.36	-0.44	0.35	14.34	185	28.42	90	99	65	0	0	2	0
	WACO	84	64	90	59	74	5	2.08	1.30	1.96	9.62	176	25.58	97	96	52	1	0	4	1
	WICHITA FALLS	83	61	88	56	72	7	1.18	0.54	0.94	1.61	29	17.50	70	87	41	0	0	2	1
UT	SALT LAKE CITY	60	38	77	35	49	-5	0.12	-0.21	0.12	2.46	118	20.94	162	79	32	0	0	1	0
VT	BURLINGTON	57	45	64	36	51	2	1.36	0.73	0.63	7.95	163	48.92	177	98	71	0	0	4	2
VA	LYNCHBURG	70	43	75	36	57	-1	0.01	-0.84	0.00	3.06	58	43.20	131	100	44	0	0	1	0
	NORFOLK	68	54	71	47	61	-1	0.01	-0.70	0.01	4.07	71	47.68	128	88	54	0	0	1	0
	RICHMOND	71	48	72	43	59	0	0.00	-0.80	0.00	4.26	81	40.33	115	94	44	0	0	0	0
	ROANOKE	72	45	76	39	58	1	0.01	-0.87	0.01	2.74	49	42.01	126	91	39	0	0	1	0
	WASH/DULLES	69	42	73	35	56	0	0.07	-0.65	0.01	2.81	55	34.74	108	95	46	0	0	1	0
WA	HANFORD	62	43	73	33	52	--	0.00	--	0.00	0.11	--	4.45	--	72	40	0	0	0	0
	OLYMPIA	57	42	60	33	50	-1	1.84	0.93	0.96	3.45	82	29.98	94	100	67	0	0	6	2
	QUILLAYUTE	58	43	63	36	50	0	3.84	1.53	1.28	7.66	77	55.53	80	99	66	0	0	7	4
	SEATTLE-TACOMA	57	47	63	41	52	-1	1.58	0.90	0.67	3.56	106	22.75	96	98	60	0	0	6	1
	SPOKANE	55	36	66	27	46	-3	0.20	0.00	0.09	0.58	50	10.79	95	92	44	0	2	3	0
	YAKIMA	61	34	67	26	47	-3	0.00	-0.09	0.00	0.28	47	7.21	136	94	40	0	4	0	0
WV	BECKLEY	68	40	77	34	54	1	0.00	-0.65	0.00	2.67	54	40.89	122	97	38	0	0	0	0
	CHARLESTON	69	41	80	36	55	-1	0.00	-0.63	0.00	3.54	74	42.66	125	100	42	0	0	0	0
	ELKINS	65	35	77	29	50	-1	0.00	-0.69	0.00	4.96	91	42.31	116	100	43	0	2	0	0
	HUNTINGTON	71	43	80	38	57	0	0.11	-0.52	0.02	2.60	59	37.98	113	97	36	0	0	3	0
WI	EAU CLAIRE	60	40	71	31	50	2	0.47	-0.09	0.33	2.45	45	27.38	98	91	60	0	2	3	0
	GREEN BAY	61	43	76	32	52	3	0.09	-0.41	0.09	4.84	101	26.54	110	93	63	0	1	1	0
	MADISON	63	44	76	30	53	4	0.90	0.42	0.90	5.38	116	37.40	144	93	55	0	1	1	1
	MILWAUKEE	62	47	71	38	54	3	0.73	0.19	0.71	4.30	90	30.51	113	91	60	0	0	3	1
WY	CASPER	59	31	75	28	45	-2	2.37	2.15	1.93	4.09	276	12.65	119	93	54	0	7	3	1
	CHEYENNE	59	36	68	29	48	0	0.11	-0.06	0.07	1.10	64	9.39	72	80	34	0	2	2	0
	LANDER	56	34	73	29	45	-3	1.10	0.84	0.98	4.89	281	16.02	143	83	38	0	3	3	1
	SHERIDAN	55	33	63	28	44	-4	0.55	0.27	0.44	4.49	218	16.53	124	98	56	0	3	3	0

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

National Weather Data for Selected Cities

Weather Data for the Week Ending October 24, 1998

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

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	75	53	83	40	64	4	0.00	-0.62	0.00	2.23	37	56.19	126	77	28	0	0	0	0
	HUNTSVILLE	73	50	84	36	61	2	0.01	-0.72	0.01	2.88	44	35.63	78	86	35	0	0	1	0
	MOBILE	78	57	86	44	68	1	0.01	-0.58	0.01	25.56	310	79.42	147	88	45	0	0	1	0
	MONTGOMERY	78	52	87	37	65	1	0.00	-0.52	0.00	10.27	172	45.56	105	88	43	0	0	0	0
AK	ANCHORAGE	44	33	49	29	38	6	0.25	-0.18	0.11	1.18	27	9.71	73	94	66	0	3	5	0
	BARROW	23	17	26	10	21	10	0.25	0.16	0.06	1.61	169	3.90	101	88	61	0	7	7	0
	FAIRBANKS	35	19	51	11	27	6	0.10	-0.09	0.08	1.40	87	9.81	109	97	71	0	7	2	0
	JUNEAU	50	44	54	41	47	6	8.47	6.71	3.75	17.01	131	45.61	105	100	84	0	0	7	6
	KODIAK	48	35	50	26	40	1	1.55	-0.05	1.08	22.62	179	90.44	170	94	59	0	2	6	1
	NOME	31	25	32	23	28	2	0.03	-0.24	0.02	4.66	132	21.65	169	87	65	0	7	2	0
AZ	FLAGSTAFF	59	33	67	26	46	0	0.89	0.53	0.75	5.43	166	23.07	127	93	36	0	3	2	1
	PHOENIX	86	64	88	56	75	2	0.00	-0.14	0.00	0.58	42	8.63	146	54	24	0	0	0	0
	TUCSON	84	58	92	48	71	2	0.27	0.05	0.16	1.37	54	12.53	124	60	22	1	0	2	0
	YUMA	88	63	90	57	76	1	0.00	-0.06	0.00	2.26	452	4.38	182	44	16	2	0	0	0
AR	FORT SMITH	70	47	75	39	59	-2	0.22	-0.63	0.12	11.22	186	38.23	116	98	40	0	0	4	0
	LITTLE ROCK	70	50	75	40	60	-1	0.74	-0.11	0.72	7.89	112	34.44	86	87	45	0	0	2	1
CA	BAKERSFIELD	79	52	87	45	65	-1	0.22	0.14	0.21	0.53	147	12.20	284	54	25	0	0	1	0
	EUREKA	66	47	77	42	56	2	0.73	0.01	0.71	2.23	84	43.29	179	91	55	0	0	2	1
	FRESNO	79	49	84	44	64	1	0.16	0.02	0.16	0.31	53	16.28	215	75	22	0	0	1	0
	LOS ANGELES	73	58	81	56	66	0	0.02	-0.07	0.01	0.05	10	23.88	284	94	52	0	0	2	0
	REDDING	80	49	86	41	64	3	2.15	1.57	2.15	2.21	92	49.61	227	61	17	0	0	1	1
	SACRAMENTO	78	46	87	42	62	-1	0.55	0.26	0.55	0.85	79	24.29	204	87	24	0	0	1	1
	SAN DIEGO	72	58	76	54	65	-2	0.00	-0.10	0.00	0.03	7	14.30	212	84	54	0	0	0	0
	SAN FRANCISCO	70	51	80	48	60	0	0.67	0.34	0.61	0.80	80	29.37	221	87	40	0	0	1	1
CO	ALAMOSA	54	25	63	10	40	-2	0.30	0.15	0.15	1.30	90	5.27	81	91	41	0	5	4	0
	CO SPRINGS	60	35	70	23	48	0	0.02	-0.16	0.00	0.78	39	14.96	99	78	31	0	3	1	0
	DENVER	63	33	71	28	48	-2	0.00	-0.22	0.00	1.55	77	15.04	110	83	28	0	3	0	0
	GRAND JUNCTION	63	39	69	33	51	-2	0.36	0.14	0.26	1.93	121	7.55	106	83	38	0	0	3	0
	PUEBLO	66	36	76	28	51	0	0.07	-0.05	0.00	2.15	158	11.11	109	87	32	0	3	1	0
CT	BRIDGEPORT	64	44	71	36	54	0	0.01	-0.70	0.01	5.50	101	39.41	117	86	44	0	0	1	0
	HARTFORD	64	41	77	33	52	2	0.04	-0.76	0.00	7.80	120	41.73	118	83	37	0	0	1	0
DC	WASHINGTON	68	49	78	40	58	0	0.03	-0.66	0.01	2.58	46	33.43	105	76	32	0	0	2	0
DE	WILMINGTON	66	44	77	37	55	1	0.00	-0.63	0.00	4.58	81	34.24	102	82	34	0	0	0	0
FL	DAYTONA BEACH	81	68	84	60	75	2	0.72	-0.13	0.44	7.82	81	37.69	90	87	55	0	0	4	1
	JACKSONVILLE	78	58	85	49	68	0	0.00	-0.52	0.00	10.73	113	54.15	118	94	56	0	0	0	0
	KEY WEST	83	76	86	74	80	1	0.73	-0.20	0.61	18.46	175	34.10	101	89	68	0	0	2	1
	MIAMI	84	76	87	74	80	2	2.20	1.03	1.69	20.17	165	61.66	122	85	63	0	0	3	2
	ORLANDO	82	66	87	60	74	0	0.24	-0.20	0.12	6.13	76	42.56	98	93	55	0	0	3	0
	PENSACOLA	78	61	85	49	69	2	0.10	-0.81	0.00	20.01	231	60.28	113	82	46	0	0	1	0
	TALLAHASSEE	80	59	89	50	70	3	0.00	-0.61	0.00	14.20	180	55.89	99	85	46	0	0	0	0
	TAMPA	83	67	88	60	75	1	0.00	-0.34	0.00	8.85	115	54.00	136	92	57	0	0	0	0
	WEST PALM BEACH	83	76	87	73	79	2	0.87	-0.53	0.55	14.86	107	56.09	107	82	57	0	0	5	1
GA	ATHENS	72	47	82	32	60	-1	0.05	-0.69	0.05	6.83	116	46.44	113	93	41	0	1	1	0
	ATLANTA	72	50	82	38	61	0	0.00	-0.69	0.00	4.77	83	42.42	101	83	38	0	0	0	0
	AUGUSTA	75	45	85	32	60	-2	0.00	-0.63	0.00	8.59	164	45.74	120	96	39	0	1	0	0
	COLUMBUS	76	54	85	40	65	1	0.00	-0.49	0.00	5.90	120	30.83	74	80	37	0	0	0	0
	MACON	75	49	85	34	62	-1	0.00	-0.48	0.00	8.47	190	41.21	111	95	43	0	0	0	0
	SAVANNAH	75	52	86	38	63	-2	0.00	-0.48	0.00	6.89	108	46.92	108	96	44	0	0	0	0
HI	HILO	80	66	82	64	73	-2	1.96	-0.32	1.81	21.10	135	60.53	60	96	69	0	0	4	1
	HONOLULU	86	70	86	68	77	-2	0.00	-0.57	0.00	0.26	11	2.87	20	89	56	0	0	0	0
	KAHULUI	84	64	86	62	74	-3	0.06	-0.26	0.00	0.76	65	3.88	26	89	51	0	0	1	0
	LIHUE	81	69	82	66	75	-2	0.14	-0.93	0.04	2.04	36	17.45	56	90	67	0	0	4	0
ID	BOISE	64	40	70	34	52	2	0.01	-0.17	0.01	2.02	152	14.06	155	70	30	0	0	1	0
	LEWISTON	57	36	60	32	47	-4	0.01	-0.21	0.01	2.50	166	13.87	140	95	45	0	1	1	0
	POCATELLO	63	30	72	19	47	0	0.17	-0.05	0.12	2.33	152	11.63	121	88	28	0	5	2	0
IL	CHICAGO/O'HARE	62	40	68	33	51	0	0.25	-0.27	0.25	6.84	120	33.62	113	85	43	0	0	1	0
	MOLINE	61	36	66	30	49	-3	0.00	-0.62	0.00	10.15	160	43.30	128	95	43	0	1	0	0
	PEORIA	63	37	67	32	50	-2	0.29	-0.27	0.29	4.02	67	36.58	120	92	42	0	1	1	0
	ROCKFORD	60	35	66	27	48	-2	0.44	-0.18	0.43	5.55	91	35.06	113	92	42	0	1	2	0
	SPRINGFIELD	64	35	68	29	49	-4	0.36	-0.20	0.25	3.50	65	40.40	137	95	37	0	2	3	0
IN	EVANSVILLE	65	40	72	33	53	-3	0.77	0.11	0.76	3.22	63	36.76	105	97	41	0	0	2	1
	FORT WAYNE	59	37	68	31	48	-3	0.38	-0.18	0.31	5.02	110	35.39	124	90	45	0	1	2	0
	INDIANAPOLIS	61	38	69	31	49	-3	0.99	0.39	0.83	7.52	164	45.61	139	93	41	0	1	2	1
	SOUTH BEND	59	37	70	34	48	-2	0.47	-0.22	0.33	2.81	47	30.65	96	95	53	0	0	2	0
IA	BURLINGTON	64	39	68	34	52	0	0.07	-0.55	0.06	13.50	208	45.67	146	86	40	0	0	1	0
	CEDAR RAPIDS	59	35	65	29	47	-3	0.99	0.52	0.30	6.37	110	38.52	130	93	45	0	2	6	0
	DES MOINES	60	39	64	34	50	-2	0.05	-0.51	0.03	3.85	68	38.16	129	94	46	0	0	3	0
	DUBUQUE	59	35	66	28	47	-2	0.04	-0.52	0.00	7.72	113	41.34	125	87	37	0	2	1	0
	SIOUX CITY	64	36	71	33	50	1	0.16	-0.24	0.15	2.74	61	27.95	118	94	39	0	0	2	0
	WATERLOO	61	35	69	26	48	0	0.08	-0.46	0.08	5.36	96	41.63	138	90	39	0	3	1	0
KS	CONCORDIA	67	41	69	38	54	0	0.00	-0.41	0.00	6.11	132	28.59	108	91	40	0	0	0	0
	DODGE CITY	68	42	73	35	55	0	0.06	-0.21	0.00	2.20	75	17.46	88	83	36	0	0	1	0
	GOODLAND	66	33	74	27	50	0	0.07	-0.12	0.05	1.64	71	15.70	93	85	31	0	2	3	0
	TOPEKA	67	42	70	37	54	0	0.01	-0.64	0.00	7.40	118	33.51	107	93	40	0	0	1	0

Based on 1961-90 normals

Weather Data for the Week Ending October 24, 1998

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	65	43	69	37	54	-2	0.00	-0.45	0.00	5.72	108	23.45	90	89	41	0	0	0	0
KY	JACKSON	63	43	78	31	53	-2	0.38	-0.34	0.23	4.25	70	44.83	111	89	39	0	1	2	0
	LEXINGTON	61	40	74	30	50	-4	0.59	0.01	0.33	3.11	60	44.55	122	96	46	0	2	5	0
	LOUISVILLE	64	44	74	36	54	-2	0.30	-0.31	0.27	3.23	62	42.63	117	97	44	0	0	2	0
	PADUCAH	67	41	73	32	54	-3	0.71	0.04	0.70	7.50	125	49.64	125	95	41	0	0	2	1
LA	BATON ROUGE	80	59	88	45	69	2	0.01	-0.74	0.00	10.80	143	49.89	99	87	43	0	0	1	0
	LAKE CHARLES	78	60	86	47	69	1	0.10	-0.74	0.08	18.02	205	50.07	112	89	57	0	0	2	0
	NEW ORLEANS	79	65	86	56	72	5	0.00	-0.63	0.00	20.93	265	73.50	144	82	49	0	0	0	0
	SHREVEPORT	68	54	74	43	61	-4	2.20	1.33	1.30	15.19	256	41.45	113	94	60	0	0	4	2
ME	CARIBOU	52	36	65	29	44	2	0.18	-0.52	0.08	4.71	81	31.42	108	90	58	0	3	5	0
	PORTLAND	62	39	71	33	50	3	0.00	-0.93	0.00	13.14	219	51.07	152	85	39	0	0	0	0
MD	BALTIMORE	67	42	78	34	54	0	0.00	-0.66	0.00	2.45	43	32.10	96	83	32	0	0	0	0
MA	BOSTON	64	47	76	40	56	2	0.00	-0.77	0.00	8.09	146	50.40	155	73	41	0	0	0	0
	WORCESTER	59	41	73	34	50	2	0.00	-0.99	0.00	5.73	78	42.34	111	83	43	0	0	0	0
MI	ALPENA	59	40	70	31	50	4	0.05	-0.39	0.05	7.61	160	29.48	122	85	42	0	2	1	0
	GRAND RAPIDS	58	39	68	31	48	1	0.34	-0.27	0.31	5.22	81	28.53	97	90	53	0	1	2	0
	HOUGHTON LAKE	56	39	64	25	47	2	0.22	-0.24	0.16	6.11	119	20.82	88	90	52	0	2	3	0
	LANSING	59	36	68	25	48	0	0.11	-0.33	0.11	4.85	93	26.63	106	89	48	0	1	1	0
	MARQUETTE	56	36	70	26	46	4	0.21	-0.58	0.08	4.86	70	23.23	104	83	45	0	0	3	0
	MUSKEGON	57	42	67	32	49	1	0.31	-0.30	0.29	6.64	109	23.96	93	90	53	0	1	2	0
MN	DULUTH	55	35	70	28	45	3	0.10	-0.41	0.08	6.93	118	27.67	105	93	49	0	3	2	0
	INT'L FALLS	55	32	73	22	44	3	0.22	-0.18	0.02	4.31	90	20.31	92	95	54	0	2	3	0
	MINNEAPOLIS	59	37	66	28	48	2	0.00	-0.48	0.00	3.06	69	31.17	123	85	41	0	3	0	0
	ROCHESTER	59	36	68	29	47	1	0.00	-0.48	0.00	3.95	74	28.95	109	90	42	0	3	0	0
	ST. CLOUD	61	33	70	25	47	3	0.08	-0.38	0.08	2.86	58	22.20	89	90	39	0	4	1	0
MS	JACKSON	75	54	87	38	65	2	0.23	-0.52	0.14	2.95	49	41.02	94	91	43	0	0	2	0
	MERIDIAN	76	51	85	34	64	2	0.08	-0.62	0.05	3.18	55	46.81	103	90	40	0	0	2	0
	TUPELO	71	50	81	36	60	0	0.18	-0.60	0.09	3.28	53	40.28	91	88	41	0	0	2	0
MO	COLUMBIA	64	40	67	34	52	-3	0.01	-0.69	0.01	11.25	178	41.46	126	93	44	0	0	1	0
	KANSAS CITY	65	44	69	38	55	0	0.00	-0.67	0.00	14.86	197	42.05	125	89	46	0	0	0	0
	SAINT LOUIS	65	43	68	37	54	-3	0.42	-0.19	0.42	3.75	72	39.45	129	88	39	0	0	1	0
	SPRINGFIELD	63	39	66	35	51	-5	0.00	-0.77	0.00	9.74	131	43.47	123	97	46	0	0	0	0
MT	BILLINGS	59	35	67	28	47	-1	0.06	-0.19	0.00	2.07	90	12.82	97	82	35	0	3	1	0
	BUTTE	58	23	65	17	41	1	0.01	-0.13	0.01	1.50	82	13.52	123	91	27	0	7	1	0
	GLASGOW	60	32	68	28	46	2	0.00	-0.12	0.00	3.32	220	12.90	127	94	35	0	3	0	0
	GREAT FALLS	61	34	71	25	47	1	0.00	-0.17	0.00	1.87	99	15.80	117	75	29	0	3	0	0
	KALISPELL	54	24	57	21	39	-1	0.00	-0.19	0.00	2.16	111	17.30	131	98	41	0	7	0	0
	MILES CITY	62	36	72	30	49	3	0.00	-0.19	0.00	2.02	100	12.14	95	87	32	0	2	0	0
	MISSOULA	54	27	57	22	41	-2	0.03	-0.14	0.03	1.70	100	17.71	156	94	38	0	5	1	0
NE	GRAND ISLAND	66	38	70	32	52	2	0.17	-0.09	0.15	1.63	41	23.23	101	89	35	0	1	3	0
	LINCOLN	65	39	68	32	52	0	0.05	-0.38	0.04	4.17	80	29.86	116	93	43	0	1	2	0
	NORFOLK	65	38	72	32	52	2	0.10	-0.23	0.07	2.95	78	31.65	137	92	39	0	2	2	0
	NORTH PLATTE	65	30	69	24	47	0	0.00	-0.20	0.00	2.09	87	20.16	112	93	33	0	5	0	0
	OMAHA	64	40	68	35	52	1	0.07	-0.39	0.00	3.37	60	37.98	141	94	44	0	0	1	0
	SCOTTSBLUFF	63	32	70	26	47	0	0.04	-0.13	0.04	2.79	163	14.81	107	92	34	0	4	1	0
	VALENTINE	66	34	76	28	50	3	0.01	-0.18	0.01	3.12	137	21.61	127	93	30	0	3	1	0
NV	ELY	58	25	63	18	41	-3	0.00	-0.19	0.00	1.21	69	10.25	118	82	25	0	7	0	0
	LAS VEGAS	77	54	80	49	66	-1	0.00	-0.06	0.00	1.29	300	6.37	198	48	22	0	0	0	0
	RENO	65	34	71	29	50	0	0.00	-0.09	0.00	2.17	350	10.87	196	74	19	0	4	0	0
	WINNEMUCCA	66	33	70	17	50	3	0.52	0.37	0.51	3.33	401	13.65	218	72	20	0	3	1	1
NH	CONCORD	64	37	78	30	50	4	0.00	-0.75	0.00	5.07	97	32.30	112	85	33	0	1	0	0
NJ	NEWARK	66	47	76	42	57	1	0.04	-0.65	0.00	4.35	73	41.39	115	80	39	0	0	1	0
NM	ALBUQUERQUE	61	47	66	34	54	-1	0.72	0.53	0.35	0.95	56	8.15	105	84	48	0	0	4	0
NY	ALBANY	62	40	74	33	51	2	0.04	-0.60	0.02	6.27	122	36.42	124	90	47	0	0	2	0
	BINGHAMTON	57	40	74	34	48	1	0.24	-0.40	0.12	5.60	101	36.03	120	88	47	0	0	3	0
	BUFFALO	57	45	76	39	51	2	0.17	-0.53	0.09	4.37	74	31.50	104	86	53	0	0	2	0
	ROCHESTER	58	43	79	33	50	1	0.19	-0.36	0.02	4.57	94	39.07	151	86	51	0	0	2	0
	SYRACUSE	60	44	79	38	52	3	0.49	-0.23	0.19	4.83	77	33.28	106	82	47	0	0	4	0
NC	ASHEVILLE	66	42	74	30	54	0	0.01	-0.79	0.01	3.23	49	42.04	106	88	37	0	1	1	0
	CHARLOTTE	69	42	80	31	55	-4	0.00	-0.74	0.00	5.54	91	35.86	101	95	37	0	1	0	0
	GREENSBORO	68	43	77	33	56	-1	0.03	-0.75	0.03	3.09	49	41.56	117	89	38	0	0	1	0
	HATTERAS	68	53	77	45	61	-3	0.29	-0.84	0.24	9.44	103	57.23	126	86	56	0	0	3	0
	RALEIGH	70	40	80	29	55	-3	0.16	-0.47	0.11	6.59	122	47.05	136	99	41	0	2	2	0
	WILMINGTON	72	49	85	38	60	-3	0.01	-0.54	0.01	6.75	94	58.70	125	92	46	0	0	1	0
ND	BISMARCK	64	33	76	30	49	5	0.10	-0.08	0.03	3.96	177	21.95	153	91	43	0	3	1	0
	DICKINSON	61	36	72	29	48	4	0.26	0.07	0.18	6.64	268	23.50	156	87	39	0	2	1	0
	FARGO	60	36	68	29	48	5	0.00	-0.36	0.00	6.68	199	29.30	165	90	51	0	3	0	0
	GRAND FORKS	57	33	70	27	45	3	0.00	-0.26	0.00	4.95	150	20.50	122	95	57	0	3	0	0
	JAMESTOWN	61	34	70	30	48	5	0.00	-0.19	0.00	4.05	158	19.61	125	92	45	0	4	0	0
	WILLISTON	62	31	72	29	46	4	0.00	-0.15	0.00	3.73	188	15.41	123	93	37	0	5	0	0
OH	AKRON-CANTON	58	38	69	30	48	-3	1.06	0.55	0.75	4.36	85	35.77	118	95	50	0	1	3	1
	CINCINNATI	60	36	69	27	48	-5	0.57	-0.09	0.51	3.02	60	44.76	132	98	43	0	2	2	1
	CLEVELAND	59	41	70	34	50	-1	0.76	0.21	0.54	3.43	63	29.19	98	89	46	0	0	3	1
	COLUMBUS	61	40	72	32	51	-1	0.40	-0.08	0.37	3.93	86	31.93	101	97	44	0	1	2	0
	DAYTON	60	39	68	32	50	-3	0.67	0.10	0.64	3.54	80	34.80	116	87	39	0	1	2	1
	MANSFIELD	58	38	67	33	48	-3	0.86	0.33	0.58	3.41	66	34.26	105	93	46	0	0	3	1

Based on 1961-90 normals

Weather Data for the Week Ending October 24, 1998

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP, °F		PRECIP.	
		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	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	59	39	68	33	49	-1	0.43	-0.04	0.22	2.45	55	29.75	111	89	48	0	0	3	0
	YOUNGSTOWN	58	41	70	35	49	0	0.87	0.29	0.50	5.84	106	33.28	108	91	48	0	0	3	1
OK	OKLAHOMA CITY	67	47	71	41	57	-3	0.13	-0.56	0.05	10.72	166	30.21	103	88	44	0	0	1	0
	TULSA	66	44	71	39	55	-5	0.09	-0.69	0.09	13.71	180	41.25	120	96	42	0	0	1	0
OR	ASTORIA	65	44	74	36	54	3	0.04	-1.39	0.04	6.27	90	51.78	117	89	51	0	0	1	0
	BURNS	63	25	69	18	44	1	0.10	-0.08	0.00	1.17	104	12.99	176	74	22	0	6	1	0
	EUGENE	66	39	75	31	52	-1	0.14	-0.75	0.12	2.12	54	29.94	96	97	46	0	2	2	0
	MEDFORD	73	38	81	34	56	3	0.29	-0.09	0.27	1.43	76	19.39	164	91	26	0	0	2	0
	PENDLETON	61	36	74	30	49	-2	0.12	-0.09	0.08	1.44	120	10.48	121	84	35	0	3	2	0
	PORTLAND	66	45	72	42	56	3	0.08	-0.58	0.00	3.10	86	28.11	117	91	43	0	0	1	0
	SALEM	65	40	74	37	52	1	0.12	-0.64	0.05	2.85	79	31.35	125	95	40	0	0	2	0
PA	ALLENTOWN	63	40	74	33	52	0	0.04	-0.61	0.00	6.33	103	36.52	103	88	41	0	0	1	0
	ERIE	59	47	74	40	53	1	0.19	-0.64	0.16	3.53	48	28.20	85	79	48	0	0	2	0
	MIDDLETOWN	66	44	79	40	55	2	0.00	-0.66	0.00	3.68	64	43.67	132	80	34	0	0	0	0
	PHILADELPHIA	66	47	76	38	56	2	0.00	-0.58	0.00	3.67	68	29.63	87	79	37	0	0	0	0
	PITTSBURGH	60	41	75	34	51	0	0.48	-0.04	0.32	3.33	70	30.87	101	87	42	0	0	2	0
	WILKES-BARRE	60	41	76	35	50	1	0.03	-0.59	0.03	5.85	107	33.33	111	89	43	0	0	1	0
	WILLIAMSPORT	63	40	74	35	51	1	0.04	-0.71	0.01	4.07	69	38.02	114	92	40	0	0	3	0
RI	PROVIDENCE	64	43	74	36	54	2	0.00	-0.85	0.00	4.58	73	47.17	132	84	38	0	0	0	0
SC	BEAUFORT	75	53	84	40	64	-2	0.04	-0.48	0.00	7.67	108	47.21	104	94	44	0	0	1	0
	CHARLESTON	74	52	84	41	63	-2	0.05	-0.55	0.04	16.76	237	63.25	140	92	43	0	0	2	0
	COLUMBIA	73	46	84	36	59	-2	0.00	-0.67	0.00	6.83	113	43.10	101	90	36	0	0	0	0
	GREENVILLE	70	45	79	33	57	-2	0.02	-0.87	0.02	8.83	125	47.11	111	94	41	0	0	1	0
SD	ABERDEEN	64	33	70	28	49	4	0.00	-0.23	0.00	6.85	246	26.41	152	93	40	0	5	0	0
	HURON	67	37	73	30	52	6	0.00	-0.31	0.00	3.16	109	21.13	114	89	35	0	1	0	0
	RAPID CITY	63	35	74	32	49	2	0.02	-0.22	0.02	6.54	307	19.41	126	86	37	0	1	1	0
	SIOUX FALLS	62	36	69	30	49	3	0.01	-0.34	0.01	5.70	127	26.93	124	91	41	0	3	1	0
TN	BRISTOL	65	38	77	27	51	-4	0.07	-0.51	0.03	2.61	49	37.20	110	94	39	0	3	4	0
	CHATTANOOGA	72	49	81	35	60	2	0.02	-0.70	0.02	2.15	33	44.62	104	85	35	0	0	1	0
	KNOXVILLE	68	44	78	33	56	-1	0.08	-0.57	0.07	2.79	53	45.51	119	91	39	0	0	2	0
	MEMPHIS	70	49	76	40	60	-2	1.12	0.43	0.86	4.75	82	46.70	115	89	41	0	0	2	1
	NASHVILLE	69	46	79	34	57	-1	0.09	-0.50	0.07	3.00	55	42.90	113	84	37	0	0	2	0
TX	ABILENE	69	48	76	44	58	-6	0.57	0.04	0.33	1.08	21	10.94	51	93	36	0	0	2	0
	AMARILLO	64	44	73	36	54	-3	0.29	0.00	0.17	2.81	91	11.50	63	88	40	0	0	4	0
	AUSTIN	68	57	73	51	63	-7	2.09	1.33	1.04	19.21	319	33.57	125	94	69	0	0	4	2
	BEAUMONT	76	61	82	47	68	0	2.72	1.81	2.32	16.74	173	50.27	108	92	64	0	0	3	1
	BROWNSVILLE	79	66	89	62	73	-2	0.40	-0.10	0.28	10.38	124	14.81	63	96	74	0	0	4	0
	CORPUS CHRISTI	76	64	82	56	70	-2	5.07	4.49	3.01	15.79	196	26.68	100	94	73	0	0	3	2
	DEL RIO	70	57	75	48	63	-6	0.42	-0.05	0.15	2.99	64	26.81	164	95	61	0	0	4	0
	EL PASO	64	52	75	49	58	-4	0.73	0.59	0.24	1.51	64	4.80	62	85	60	0	0	4	0
	FORT WORTH	67	53	71	48	60	-5	0.46	-0.32	0.45	6.50	105	25.09	87	88	50	0	0	2	0
	GALVESTON	76	66	81	54	71	-1	0.74	0.19	0.54	15.06	183	42.26	121	91	74	0	0	2	1
	HOUSTON	73	59	79	47	66	-2	5.33	4.40	4.06	18.02	218	40.65	107	95	65	0	0	3	2
	LUBBOCK	65	46	73	41	55	-5	0.69	0.31	0.62	1.85	45	11.29	66	86	42	0	0	2	1
	MIDLAND	67	51	77	48	59	-4	0.70	0.35	0.49	0.98	24	4.04	30	86	43	0	0	2	0
	SAN ANGELO	67	50	74	44	58	-6	0.54	0.05	0.35	1.22	23	10.17	56	92	45	0	0	2	0
	SAN ANTONIO	69	55	73	45	62	-7	4.43	3.73	3.15	19.68	333	38.32	146	93	68	0	0	4	2
	VICTORIA	73	60	78	49	67	-4	3.49	2.79	3.27	17.83	211	31.91	99	99	77	0	0	4	1
	WACO	68	54	72	44	61	-6	2.09	1.36	1.63	11.70	189	27.67	103	96	66	0	0	5	1
	WICHITA FALLS	68	49	74	44	58	-5	0.18	-0.38	0.05	1.79	30	17.68	69	89	42	0	0	1	0
UT	SALT LAKE CITY	64	40	68	34	52	1	0.00	-0.33	0.00	2.46	102	20.94	158	78	29	0	0	0	0
VT	BURLINGTON	61	45	72	30	53	7	0.00	-0.65	0.00	7.95	144	48.92	173	74	45	0	1	0	0
VA	LYNCHBURG	66	40	76	28	53	-2	0.01	-0.84	0.00	3.07	50	43.22	128	92	37	0	3	1	0
	NORFOLK	68	51	80	40	59	0	0.04	-0.65	0.01	4.12	64	47.72	126	88	43	0	0	3	0
	RICHMOND	68	45	78	36	57	0	0.12	-0.68	0.12	4.38	72	40.45	113	89	34	0	0	1	0
	ROANOKE	67	46	77	35	57	2	0.01	-0.87	0.01	2.75	42	42.02	123	72	33	0	0	1	0
	WASH/DULLES	68	40	80	30	54	1	0.00	-0.72	0.00	2.61	48	34.74	105	82	28	0	2	0	0
WA	HANFORD	62	37	66	30	50	--	0.00	--	0.00	0.16	--	4.50	--	80	34	0	1	0	0
	OLYMPIA	62	36	71	31	49	1	0.05	-1.02	0.04	3.50	66	30.02	91	100	48	0	3	2	0
	QUILLAYUTE	64	39	75	35	52	2	0.09	-2.50	0.08	7.75	62	55.62	77	98	52	0	0	2	0
	SEATTLE-TACOMA	60	42	68	40	51	0	0.03	-0.77	0.03	3.59	86	22.78	93	100	55	0	0	1	0
	SPOKANE	58	32	65	23	45	0	0.00	-0.24	0.00	0.58	41	10.79	93	93	39	0	4	0	0
	YAKIMA	62	29	66	26	45	-3	0.07	-0.04	0.01	0.35	50	7.28	134	93	37	0	6	1	0
WV	BECKLEY	61	37	76	27	49	-2	0.63	0.00	0.42	3.30	59	41.52	122	94	39	0	3	4	0
	CHARLESTON	63	39	79	30	51	-3	0.28	-0.38	0.15	3.82	70	42.94	123	99	39	0	2	2	0
	ELKINS	59	33	76	25	46	-3	0.36	-0.33	0.13	5.32	86	42.67	114	97	41	0	2	3	0
	HUNTINGTON	64	41	79	29	53	-2	0.36	-0.29	0.28	2.96	58	38.33	112	88	34	0	2	4	0
WI	EAU CLAIRE	59	35	70	26	47	1	0.00	-0.50	0.00	2.45	42	27.38	96	92	39	0	3	0	0
	GREEN BAY	61	35	70	26	48	2	0.01	-0.46	0.01	4.85	93	26.55	108	87	40	0	2	1	0
	MADISON	60	36	65	25	48	1	0.09	-0.37	0.09	5.47	107	37.49	142	85	42	0	2	1	0
	MILWAUKEE	59	40	65	34	50	1	0.21	-0.31	0.20	4.52	86	30.72	111	83	41	0	0	2	0
WY	CASPER	52	29	63	23	41	-4	0.07	-0.15	0.00	4.17	245	12.72	117	91	51	0	5	1	0
	CHEYENNE	58	31	65	25	44	-1	0.05	-0.10	0.05	1.15	61	9.44	71	90	37	0	5	1	0
	LANDER	55	31	63	26	43	-1	0.00	-0.25	0.00	4.89	246	16.02	140	91	40	0	5	0	0
	SHERIDAN	60	28	66	24	44	-1	0.00	-0.25	0.00	4.49	194	15.53	122	94	38	0	5	0	0

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

National Agricultural Summary

October 19 - 25, 1998

HIGHLIGHTS

Most of the Nation experienced dry weather, ideal for harvesting crops and seeding winter wheat. In southeastern Texas, heavy early-week rains caused flooding and stalled fieldwork for several days. Seasonable temperatures aided early growth of fall-seeded crops in the Great Plains and eastern Corn Belt.

Corn: The Nation's corn harvest advanced 15 percentage points, to 72 percent complete and remained more than 1 week ahead of the 53 percent normal pace. Farmers in the Corn Belt and Great Plains made excellent progress as dry weather provided nearly ideal harvest conditions. However, shortages of storage space forced some farmers to wait until space became available. In the southern Plains, lower Mississippi Valley, and Southeast, harvest was virtually finished. In the southern Corn Belt, along the Mississippi and Ohio River Valleys, activity decreased as the harvest began to wind down.

Soybeans: Eighty-two percent of the Nation's soybeans have been harvested, compared with 77 percent normally harvested by this date. Farmers in the southern Corn Belt and northern Mississippi Delta set the quickest pace, while the rest of the Corn Belt and northern Plains made steady progress. The harvest gained momentum in the Southeast, as farmers increasingly focused their attention on the soybean crop. In the lower Mississippi Valley and parts of the northern and western Corn Belt, harvest activity declined, as farmers finished combining soybeans.

Cotton: The Nation's cotton harvest progressed to 61 percent complete, up from 51 percent the previous week. Normally, 50 percent of the crop would be harvested by this date. Growers in the northern Mississippi Delta, made rapid progress. Farther south in the Delta, the pace was slower, as the harvest neared completion. The pace in the southern Plains was also slow, as rain stalled progress in Texas. In the Southwest, progress remained well behind normal, despite excellent progress in Arizona. The harvest season was just beginning in California, due to the late-maturing crop.

Winter Wheat: Planting progressed to 84 percent, slightly behind the 87 percent average. The pace slowed as planting neared completion in the Great Plains from Nebraska to the Dakotas and westward through the northern Rocky Mountains and Pacific Northwest. In the southern and eastern Corn Belt, farmers made rapid progress, as dry weather prevailed. Planting steadily advanced in the southern Plains and began to gain momentum in the Southeast. Progress was well behind normal in western Missouri and Oklahoma, and slightly behind normal in Kansas. Sixty-seven percent has emerged, also slightly behind normal for this date. The northeastern Corn Belt, northern Rocky Mountains, and Pacific Northwest were ahead of normal, while most of the central and southern Great Plains, southern Corn Belt, and Mississippi Delta lagged behind normal.

Other crops: The rice harvest progressed to 97 percent complete, slightly ahead of the normal pace. Growers in the Mississippi Delta harvested most of their remaining paddies. In California, the pace remained brisk, but continued to lag behind normal. Sorghum growers advanced their harvest to 75 percent, a few days ahead of the normal 67 percent pace. Dry conditions aided progress in the central Great Plains and southern Corn Belt. Dry weather also aided the peanut harvest, as progress jumped slightly ahead of the normal pace, to 72 percent complete. Growers made rapid progress in the southeast, but remained well behind normal in Alabama and Georgia, but were far ahead of the 5-year average in Florida. In the southern Great Plains, progress remained slightly ahead of normal, despite rain that delayed harvest in parts of Texas.

Crop Progress and Condition

Week Ending October 25, 1998

Soybeans Percent Harvested

	Oct 25 1998	Prev Week	Prev Year	5-Yr Avg
AL	49	35	45	37
AR	62	44	50	45
GA	22	15	19	16
IL	85	71	96	87
IN	89	74	92	84
IA	93	87	97	93
KS	67	57	79	73
KY	77	55	48	41
LA	93	87	94	77
MI	76	60	77	71
MN	95	90	99	91
MS	91	82	75	65
MO	68	50	73	61
NE	87	78	89	91
NC	20	15	13	12
OH	92	83	90	83
SC	11	5	9	7
SD	86	75	92	83
TN	55	42	37	31
ALL	82	71	84	77

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

Corn Percent Harvested

	Oct 25 1998	Prev Week	Prev Year	5-Yr Avg
CO	64	50	64	49
GA	99	98	98	97
IL	73	58	76	63
IN	68	45	46	46
IA	70	52	72	50
KS	92	82	89	81
KY	95	88	77	80
MI	59	51	9	24
MN	81	59	75	48
MO	80	69	80	67
NE	75	63	60	48
NC	100	100	90	91
OH	52	36	25	35
PA	53	42	29	36
SD	55	42	54	37
TX	98	95	97	97
WI	58	40	26	31
ALL	72	57	63	53

These 17 States harvested 92% of last year's corn acreage.

Winter Wheat Percent Planted

	Oct 25 1998	Prev Week	Prev Year	5-Yr Avg
AR	42	16	40	39
CA	2	1	5	8
CO	100	98	100	99
GA	10	4	6	9
ID	94	87	93	89
IL	84	57	92	80
IN	82	62	90	82
KS	94	80	95	96
MI	88	81	95	92
MO	46	34	73	63
MT	98	89	98	92
NE	99	98	100	100
NC	30	25	26	30
OH	96	86	93	90
OK	77	68	86	91
OR	83	70	88	80
SD	100	98	100	100
TX	76	69	81	82
WA	98	91	99	96
ALL	84	75	88	87

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

Winter Wheat Percent Emerged

	Oct 25 1998	Prev Week	Prev Year	5-Yr Avg
AR	17	5	22	21
CA	0	0	0	2
CO	87	87	93	93
GA	6	2	2	5
ID	64	50	64	58
IL	52	20	64	51
IN	54	31	60	54
KS	79	49	83	81
MI	78	60	73	68
MO	28	13	48	39
MT	80	64	77	66
NE	96	91	98	98
NC	10	5	0	10
OH	76	53	51	56
OK	53	33	63	66
OR	63	51	61	50
SD	95	88	96	92
TX	57	47	61	66
WA	90	81	93	82
ALL	67	50	71	70

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

Cotton Percent Harvested

	Oct 25 1998	Prev Week	Prev Year	5-Yr Avg
AL	69	55	44	57
AZ	44	24	54	54
AR	79	61	59	67
CA	6	2	57	46
GA	46	38	41	47
LA	92	81	95	85
MS	94	87	76	75
MO	57	44	61	68
NM	18	10	14	23
NC	70	55	26	43
OK	58	55	14	24
SC	65	55	29	45
TN	84	70	56	63
TX	60	53	37	40
ALL	61	51	47	50

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

Sorghum Percent Harvested

	Oct 25 1998	Prev Week	Prev Year	5-Yr Avg
AR	100	99	98	96
CO	42	23	9	35
IL	56	34	75	53
KS	79	62	70	64
LA	100	100	100	99
MS	100	100	100	99
MO	76	69	72	66
NE	76	60	75	56
NM	14	12	26	22
OK	55	29	40	33
SD	74	62	67	57
TX	77	73	75	83
ALL	75	63	69	67

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

Rice Percent Harvested

	Oct 25 1998	Prev Week	Prev Year	5-Yr Avg
AR	99	97	95	96
CA	85	70	99	89
LA	100	100	99	99
MS	100	98	99	97
TX	100	100	98	100
ALL	97	93	97	96

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

Crop Progress and Condition

Week Ending October 25, 1998

Peanuts Percent Harvested

	Oct 25 1998	Prev Week	Prev Year	5-Yr Avg
AL	78	50	95	87
FL	89	67	98	37
GA	79	64	93	89
NC	65	60	62	66
OK	59	50	59	54
SC	73	55	75	73
TX	52	43	49	40
VA	90	82	93	91
ALL	72	57	79	71

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

Winter Wheat Crop Condition by Percent

	VP	P	F	G	EX
AR	0	2	40	49	9
CA	0	0	0	50	50
CO	1	3	17	51	28
GA	0	1	39	52	8
ID	0	0	7	71	22
IL	0	3	24	66	7
IN	0	2	31	57	10
KS	1	3	26	61	9
MI	0	3	29	55	13
MO	0	5	43	49	3
MT	0	7	49	43	1
NE	1	1	26	63	9
NC	0	5	18	51	26
OH	0	0	19	62	19
OK	0	4	25	66	5
OR	0	0	13	87	0
SD	0	0	8	75	17
TX	7	35	34	23	1
WA	5	14	50	15	16
ALL	2	8	27	53	10
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	1	4	23	62	10

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

Pasture and Range Crop Condition by Percent Week Ending October 25, 1998

	VP	P	F	G	EX		VP	P	F	G	EX
AL	12	20	53	13	2	NH	0	0	18	74	8
AZ	2	8	22	54	14	NJ	0	0	100	0	0
AR	7	29	41	20	3	NM	8	31	37	22	2
CA	0	20	40	40	0	NY	0	2	26	65	7
CO	3	14	33	44	6	NC	22	30	26	21	1
CT	0	0	0	100	0	ND	5	14	39	39	3
DE	0	1	33	66	0	OH	3	12	38	40	7
FL	0	0	35	55	10	OK	12	25	32	31	0
GA	10	17	42	27	4	OR	1	6	32	60	1
ID	0	12	32	43	13	PA	10	17	42	22	9
IL	4	8	33	47	8	RI	0	0	13	65	22
IN	5	21	41	31	2	SC	3	12	42	41	2
IA	3	12	32	42	11	SD	0	4	20	54	22
KS	1	9	39	44	7	TN	11	29	35	23	2
KY	10	28	39	20	3	TX	14	26	32	22	6
LA	4	18	43	32	3	UT	0	15	20	51	14
ME	3	21	60	16	0	VT	0	22	28	50	0
MD	7	31	25	31	6	VA	26	50	19	5	0
MA	0	38	11	46	5	WA	0	25	55	20	0
MI	21	17	34	24	4	WV	15	15	36	31	3
MN	8	17	33	37	5	WI	1	13	33	43	10
MS	9	24	41	23	3	WY	1	6	20	65	8
MO	0	4	27	59	10	ALL	6	17	34	37	6
MT	3	17	55	24	1						
NE	4	10	28	55	3	Prev Wk	6	17	34	38	5
NV	0	0	6	78	16	Prev Yr	4	15	35	41	5

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 6.8. Topsoil moisture 19% very short,57% short, 24% adequate. Dry, cool weather helped harvest progress, slowed fall planting in many areas. Cotton harvested 69%, 44% 1997, 57% avg. Soybeans harvested 49%, 45% 1997, 37% avg. Peanuts dug 88%, 99% 1997, 91% avg.; combined 78%, 95% 1997, 87% avg. Livestock 4% very poor, 17%, poor, 57% fair, 20% good, 2% excellent. Pasture feed 12% very poor, 20% poor, 53% fair, 13% good, 2% excellent. Tomato harvest neared conclusion. Cool weather slowed catfish feeding.

ARIZONA: Cotton harvest is well underway, is only about 1 week behind last year, 5-year average. Scattered rains over the weekend have slowed harvest in some areas. Alfalfa harvest activity was reported as 39% not being harvested, 7% light, 35% moderate, 19% active; slightly improved from the previous week. Condition 3% poor, 16% fair, 56% good, 25% excellent. Light sheeping off was reported in a few areas. Range, pasture feed 2% very poor, 8% poor, 22% fair, 54% good, 14% excellent. Last week central area growers harvested cantaloupes, green onions, honeydews, mixed greens, a light volume of cilantro. Eastern producers shipped apples, chili peppers, green onions, head lettuce, steady volume of pumpkins. Western producers began harvesting cantaloupes, honeydews. Western, central citrus groves continued to harvest lemons.

ARKANSAS: Days suitable for fieldwork 5.9. Soil moisture 1% very short, 14% short, 78% adequate, 7% surplus. Temperatures were near to slightly below-normal, precipitation was below normal for the week. A cold front late in the week resulted in the first below-freezing temperatures for the season. Main farming activities included harvesting rice, cotton, soybeans; completing the sorghum harvest; planting wheat. Other farm activities included fertilizing, over seeding pastures. There were isolated reports of wheat being re-planted due to armyworm damage. Cattle producers continued to wean, market calves and cull cows from their herds. Some producers were feeding hay, marketing cattle early due to lack of adequate forage. Cattle good condition statewide. Alfalfa 1% very poor,25% poor, 48% fair, 26% good. Other hay 5% very poor, 21% poor, 45% fair, 27% good, 2% excellent. Range, pasture feed 7% very poor, 29% poor, 41% fair, 20% good, 3% excellent.

CALIFORNIA: Field activities made good progress, with favorable weather in most areas. Light to moderate rains fell on 24th in the San Joaquin, Sacramento Valleys, coastal valleys. Planting, harvesting of the major field crops will be delayed until soils dry. Seeding of small grains, forage crops continued on pre-irrigated fields. A few early-seeded wheat fields began to emerge. Cotton defoliation was nearing completion in the San Joaquin, Sacramento Valleys. Harvest was slow to gain momentum, due to the immaturity of the crop. Harvested fields were immediately plowed down for pink bollworm control. Desert area cotton harvest was nearly three-fourths complete. Rice harvest was winding down in the Sacramento Valley, slightly behind in the San Joaquin Valley. Corn for grain and silage, dry beans, sugar beets, sunflowers were harvested. Some sugar beet fields were treated for insects, worms, while others were being planted for next year's crop. Alfalfa fields were sprayed for weeds. Harvest of alfalfa for hay or greenchop was ongoing. Some baled alfalfa suffered rain damage, overall extent of the damage was unknown. Harvest of grapes for fresh use in the San Joaquin Valley continued. Emperor, calmeria, crimson seedless were the major varieties being picked. Thompson seedless variety grapes were picked for fresh, raisin, wine uses. Approximately 4% of the raisin crop was on open trays, 11% rolled, 85% picked up. Cool weather slowed drying. Harvest of grapes for wine production was also active. Fuji, Granny Smith apple picking was active. Fig, olive, persimmon, pomegranate harvests continued. Kiwifruit picking was active. Good-quality, small-sized fruit was reported. Almond, pistachio, walnut harvests continued. Valencia orange harvest continued at a slow pace. New crop navel oranges were maturing, small-sized fruit. Lemon, grapefruit picking continued. Fall season strawberry harvest continued. Harvest of potatoes, bell peppers, pumpkins, cucumbers continued. Processing tomato harvest was near completion. Cantaloupe harvest came to a close in the San Joaquin, Sacramento Valleys. A few sweet corn fields were still being picked. Broccoli harvest began in the San Joaquin Valley, coastal valleys. Lettuce was harvested in the central coast area. High yields were reported in San Benito County. Fall lettuce harvest also increased in magnitude in the San Joaquin Valley. Additional vegetable crops harvested included fresh, processing onions, eggplant, green beans, squash, radishes, sweet potatoes, beets. Fall cabbage was in good condition. Cauliflower, spinach crops made good progress in the southern San Joaquin Valley. Garlic, carrot, onion, potato fields were planted in central, southern counties. Insect pressure was high in the Imperial Valley. Pasture, rangeland conditions were generally fair. Dry feed, stockwater supplies good. Fall calving continued, was winding down in some areas. There was some early movement of stock cows to winter pastures. Many were on supplemental feed. Stocker weight cattle were moved into feedlots or hay lots, awaiting new winter feed establishment. Beekeepers were repairing equipment, setting up almond contracts for next season.

COLORADO: Days suitable for fieldwork 5.4. Topsoil moisture 11% very short, 32% short, 56% adequate, 1% surplus. Subsoil moisture 8% very short, 34% short, 56% adequate 2% surplus. Favorable harvest weather continued through most of the week. Scattered rain/or snow showers occurred across the State late in the week. Sugar beets 70% harvested, 60% 1997, 63% avg. Dry beans 99% threshed, 95% 1997, 98% avg. Alfalfa 72% 4th cutting, 67% 1997, 58% avg.; 1% very poor, 2% poor, 29% fair, 54% good, 14% excellent. Pasture, range feed in mostly good to fair condition. Livestock continue to be moved to graze crop residues as harvest is completed.

DELAWARE: Days suitable for fieldwork 6.5. Topsoil moisture 30% short, 70% adequate. Subsoil moisture 34% short, 66% adequate. Barley 7% fair, 86% good, 7% excellent; 70% planted, 88% 1997, 76% avg. Wheat 9% fair, 86% good, 5% excellent; 30% planted, 46% 1997, 34% avg. Soybeans 80% shedding leaves, 89% 1997, 87% avg.; 20% harvested, 27% 1997, 29% avg. Field corn 81% combined, 68% 1997, 82% avg. Sorghum 45% harvested, 23% 1997, 28% avg. Alfalfa hay 95% 4th cutting, 98% 1997, 93% avg.; 30% 5th cutting, 42% 1997, 38% avg. Other hay 85% 4th cutting, 97% 1997, 60% avg. Hay supplies 9% short, 90% adequate, 1% surplus. Pasture feed 1% poor, 33% fair, 66% good. Activities: Light sprinkle on 22nd, otherwise very dry. Corn, many soybean fields being harvested, continued sowing of wheat, barley.

FLORIDA: Topsoil moisture throughout State short to adequate. Haying active. Tobacco markets closed October 20. Cotton, peanut, soybean harvests active. Sugarcane harvest gaining momentum. Sugarcane planting active. Eighty-nine percent peanut acreage for nuts harvested. Harvesting tomatoes started in Palmetto-Ruskin region, while picking Bell peppers began around Immokalee. Snap bean, cucumber harvesting started East Coast region. Major crops shipped included snap beans, sweet corn, cucumbers, eggplant, peppers, pickles, squash, tomatoes, watermelons. In citrus area, early-week warm weather followed by rain, cooler weather. A little irrigation. New growth slowed. Harvesting crews moving early oranges, white and colored grapefruit, early tangerines. Few processing plants now open. Caretakers cutting cover crops, few sprays, fertilizers being applied. Dead trees being pushed, a few resets being planted. Pasture feed fair 35%, good 55%, excellent 10%. Cattle fair 25%, good 65%, excellent

10%. North; land preparation for winter forage production active; half of forage planted. Central; pastures looked good, grass growing with good color. However, pastures declining seasonally due to dry weather. West-central; pastures in fair condition, not much growth but still somewhat green. Southwest; pastures received good showers. Statewide, cattle, calves in fair to good condition.

GEORGIA: Days suitable for fieldwork 6.6. Soil moisture 11% very short, 37% short, 51% adequate, 1% surplus. Corn 99% harvested for grain, 98% 1997, 97% avg. Cotton 11% very poor, 22% poor, 40% fair, 24% good, 3% excellent; 92% bolls open, 92% 1997, 93% avg.; 46% harvested, 41% 1997, 47% avg. Hay 11% very poor, 18% poor, 44% fair, 26% good, 1% excellent. Peanuts 4% very poor, 14% poor, 38% fair, 38% good, 6% excellent; 91% dug, 97% 1997, 96% avg.; 79% threshed, 93% 1997, 89% avg. Rye 56% planted, 58% 1997, 59% avg. Sorghum 88% harvested for grain, 68% 1997, 73% avg. Soybeans 17% very poor, 27% poor, 40% fair, 14% good, 2% excellent; 92% dropping leaves, 92% 1997, 93% avg.; 22% harvested, 19% 1997, 16% avg. Wheat 1% poor, 39% fair, 52% good, 8% excellent; 10% planted, 6% 1997, 9% avg.; 6% emerged, 2% 1997, 5% avg. Other small grains 46% planted, 40% 1997, 42% avg. Apples 94% harvested, 93% 1997, 93% avg. Pecans 16% very poor, 22% poor, 44% fair, 16% good, 2% excellent; 20% harvested, 16% 1997, 13% avg. Pasture feed 10% very poor, 17% poor, 42% fair, 27% good, 4% excellent. Another week of dry weather allowed farmers to make excellent harvest progress. Mostly short soil moisture levels in the northern half of the State continues to hinder planting of rye, other small grains. Cotton, peanut harvest benefiting from the cool, dry conditions. Low peanut yields are being reported in some areas. Corn harvest is nearing completion. Hay, pasture conditions declined, as some farmers are beginning to feed hay to livestock. Other activities included harvesting fall vegetables, land preparation for planting small grains, taking soil, nematode samples, general maintenance of harvesting equipment.

HAWAII: No weather data available.

IDAHO: Days suitable for fieldwork 6.3. Topsoil moisture 73% adequate, 27% short. Harvest activities across State near completion. Irrigation supply 25% excellent, 61% good, 6% fair, 2% poor, 6% very poor. Onions harvested 97%, 1997 100%, avg. 99%. Apples harvested 70%, 1997 81%, avg. 79%. Potatoes harvested 94%, 1997 94%, avg. 94%. Corn harvested for silage 97%, 99% 1997, 95% avg. Corn harvested for grain 29%, 30% 1997, 33% avg. Sugar beets harvested 61%, 1997 63%, 57% avg. Activities: Fall ground preparation, planting winter wheat, wrapping up fall harvest, winterizing sprinkler systems, caring for livestock.

ILLINOIS: Days suitable for fieldwork 5.3. Topsoil moisture 3% very short, 10% short, 80% adequate, 7% surplus. Soybean harvest is nearing completion. Corn harvest progress varies across the State. Farmers continued to seed the wheat crop. Scattered rains last week promoted emergence of the wheat crop. Other activities for last week included fall tillage, applying fertilizer. Sorghum mature 95%, 98% 1997, 87% avg.

INDIANA: Days suitable for fieldwork 5.6. Topsoil moisture 5% very short, 22% short, 71% adequate, 2% surplus. Subsoil moisture 8% very short, 31% short, 59% adequate, 2% surplus. Excellent conditions have soybean harvest running about a week ahead of average, corn harvest nearly 10 days ahead of normal. Many areas of the State experienced a hard frost late in the week, which should further improve harvest activities. Fall tillage operations are also underway, as some farmers have already completed harvest. Tobacco harvest 98% complete, 97% 1997, 99% avg. Range, pasture feed 5% very poor, 21% poor, 41% fair, 31% good, 2% excellent. Activities: Harvesting corn, soybeans, seeding winter wheat, fall tillage, harvesting tobacco, caring for livestock.

IOWA: Days suitable for fieldwork 5.7. Topsoil moisture very short 2%, short 15%, adequate 67%, surplus 16%. Subsoil moisture very short 5%, short 24%, adequate 62%, surplus 9%. Soybean harvest progressing rapidly, wrapping up in northwest, north-central areas. Grain storage getting tight in some areas. Rain, hail delaying harvest, damaged some fields in central two-thirds of State. Corn acreage harvested 52%, 45% 1997, 32% avg. Percentage moisture of all field corn averaged 20%; harvested corn averaged 18%. Corn lodging 37% none, 44% light, 15% moderate, 4% heavy; corn ear droppage 51% none, 37% light, 11% moderate, 1% heavy. Soybean acreage harvested 87%, 93% 1997, 81% avg.; lodging 55% none, 33% light, 10% moderate, 2% heavy; shattering 50% none, 37% light, 10% moderate, 3% heavy. Winter wheat planted 62%, 83% 1997, 77% avg. Completion of 1999 row crop fall tillage 9%, 10% 1997, 10% avg.; fall fertilizer applied 6%, 10% 1997, 9% avg. Livestock generally in good condition. Pasture feed improved, 2% very poor, 12% poor, 29% fair, 43% good, 14% excellent.

KANSAS: Days suitable for fieldwork 5.5. Topsoil moisture 2% very short, 17% short, 74% adequate, 7% surplus. Subsoil 1% very short, 16% short, 79% adequate, 4% surplus. Fall harvest, wheat seeding make good progress. Sunflowers harvested 89%, 67% 1997. Major field activities were seeding wheat, harvesting grain, fall tillage. Pasture feed 1% very poor, 9% poor, 39% fair, 44% good, 7% excellent. Stockwater supplies 3% very short 3% short, 90% adequate, 4% surplus. Cattle being moved to winter pastures, feedlots. Producers busy with fall calving, weaning, marketing calves, yearlings.

KENTUCKY: Days suitable for fieldwork 5.3. Topsoil moisture 11% very short, 44% short, 44% adequate, 1% surplus. Subsoil moisture 16% very short, 44% short, 39% adequate, 1 % surplus. Frost brought an end to the growing season for many areas of the State. Below-normal temperatures Statewide. Rainfall 0.45 in. below normal. Condition of stripped tobacco 1% very poor, 10% poor, 38% fair, 39% good, 12% excellent. Pasture feed 10% very poor, 28% poor, 39% fair, 20% good, 3% excellent. Ninety-three % of producers reported adequate hay supply. Winter wheat 62% seeded, 65% 1997, 63% avg.

LOUISIANA: Days suitable for fieldwork 6.1. Soil moisture 1% very short, 29% short, 64% adequate, 6% surplus. Hay 91% final cutting, 100% 1997, 98% avg. Some producers are getting second cuttings due to recent rains. Pecans 10% very poor, 24% poor, 38% fair, 19% good, 9% excellent; 19% harvested, 25% 1997, 16% avg. Soybeans 100% leaves shedding, 100% 1997, 97% avg. Sugarcane 4% very poor, 12% poor, 26% fair, 43% good, 15% excellent; 98% planted, 100% 1997, 99% avg.; 17% harvested, 24% 1997, 21% avg. Sweet potatoes 76% harvested, 81% 1997, 77% avg. Soft spots are still reported on harvested sweet potatoes. Wheat 39% planted, 31% 1997, 21% avg.; 19% emerged, 12% 1997, 10% avg. Livestock 1% very poor, 11% poor, 42% fair, 42% good, 4% excellent. Vegetables 3% very poor, 16% poor, 45% fair, 33% good, 3% excellent.

MARYLAND: Days suitable for fieldwork 6.6. Topsoil moisture 18% very short, 47% short, 35% adequate. Subsoil moisture 25% very short, 44% short, 31% adequate. Barley 9% very poor, 15% poor, 13% fair, 53% good, 10% excellent; 83% planted, 82% 1997, 83% avg. Rye 19% poor, 33% fair, 40% good, 8% excellent; 68% planted, 66% 1997, 65% avg. Wheat 15% poor, 36% fair, 34% good, 15% excellent; 45% planted, 41% 1997, 49% avg. Field corn 81% combined, 59% 1997, 75% avg. Soybeans 50% harvested, 37% 1997, 37% avg. Sorghum 55% harvested, 44% 1997, 43% avg. Tobacco 11% stripped, 5% 1997, 7% avg. Pasture feed 7% very poor, 31% poor, 25% fair, 31% good, 6% excellent. Apples 90% harvested, 86% 1997, 85% avg. Other hay 4th cutting 93% harvested, 79% 1997, 70% avg. Alfalfa hay 40% 5th cutting, 39% 1997, 46% avg. Hay supplies 4% very short, 25% short, 62% adequate, 9% surplus. Activities: Seeding of small grains, continued harvesting of corn, soybeans, sorghum, hay, stripping tobacco.

MICHIGAN: Days suitable for fieldwork 6.0. Topsoil moisture 5% very short, 33% short, 61% adequate, 1% surplus. Subsoil moisture 20% very short, 40% short, 40% adequate. Hay 4th cutting 79%, 81% 1997, 71% avg. Warm, dry weather across most of the State created excellent harvest conditions, kept grain moisture low, minimizing the need to dry. Some areas southeast, south-central received first killing frost. Other areas, especially those close to lakes, have not yet had severe frost. Corn, soybean harvest continued with several reports of higher-than-expected yields from areas that had drier-than-normal

growing season. Corn harvest progress about 2 1/2 weeks ahead of the 5-year average. Sugarbeet harvest in full swing, 60 to 70% complete. Winter wheat planting almost complete, most areas could use additional precipitation for good early growth of crop. Fall tillage progressed although dry soil was hard on equipment, increased fuel consumption.

MINNESOTA: Days suitable for fieldwork 4.4. Topsoil moisture 2% very short, 5% short, 78% adequate, 15% surplus. Soybeans 12% moisture content, 11% 1997, 12% avg.; 69% stubble worked, 75% 1997, 52% avg. Sugarbeets 95% harvested, 93% 1997, 92% avg. Sunflowers 50% harvested, 72% 1997, 74% avg. Corn 18% moisture content, 19% 1997, 23% avg.; stubble worked 41%, 45% 1997, 24% avg. Pasture feed 8% very poor, 17% poor, 33% fair, 37% good, 5% excellent. Favorable weather last week allowed fields to dry enough for harvesting, other fall fieldwork to resume.

MISSISSIPPI: Days suitable for fieldwork 6.7. Soil moisture 32% very short, 40% short, 27% adequate, 1% surplus. Cotton 94% harvested, 76% 1997, 75% avg. Rice 100% harvested, 99% 1997, 97% avg. Soybeans 91% harvested, 75% 1997, 65% avg. Sweet potatoes 85% harvested, 75% 1997, 81% avg.; 8% very poor, 15% poor, 38% fair, 38% good, 1% excellent. Wheat 60% planted, 51% 1997, 49% avg.; 39% emerged, 24% 1997, 27% avg.; 2% very poor, 8% poor, 62% fair, 28% good. Peanuts 93% harvested, 98% 1997, NA avg.; 4% poor, 30% fair, 60% good, 6% excellent. Cattle 1% very poor, 9% poor, 39% fair, 45% good, 6% excellent. Pasture feed 9% very poor, 24% poor, 41% fair, 23% good, 3% excellent. Activities: Dry weather persists in many areas across the State. A good general rain is needed statewide.

MISSOURI: Days suitable for fieldwork 5.0. Topsoil moisture 4% short, 81% adequate, 15% surplus. Northwest, west-central are the wettest areas, with 33% surplus, while south-central, southeast are 15% short. Ground intended for next year's spring crops that has been worked at least once (excluding no-till) 18%, 26% 1997, 15% avg. Corn harvest least advanced northeast 60%, northwest 66%, due to later plantings, wet harvest weather. Soybeans mature 96%, 96% 1997, 91% avg. Soybean harvest most advanced in south-central 78%, north-central 73%; central, east-central districts at 72%, least advanced southeast 63%, west-central 64%, northwest, southwest 67% due to weather delays. Sorghum harvest most advanced in southern third of State at 93% or more complete, while central 43%, northeast 52%, east-central 51% are least advanced. Wheat planting most advanced in Bootheel at 69%, followed by east-central 62%, least advanced west central 27%, southwest 30%. Cotton harvest 5 days behind normal. Pasture feed 4% poor, 27% fair, 59% good, 10% excellent.

MONTANA: Days suitable for fieldwork 6.4. Topsoil moisture 6% very short, 35% short, 58% adequate, 1% surplus. Subsoil moisture 13% very short, 40% short, 46% adequate, 1% surplus. Conditions at beginning of week were cooler, with temperatures mostly in the 40's, 50's, warmed up as the week went along. No significant amounts of precipitation were reported anywhere in the State, only trace amounts. Sugar beets harvested 80%, 91% 1997, 84% avg. Potatoes harvested 88%, 89% 1997, 88% avg. Range, pasture remains in mostly fair to good condition. Ranchers have moved 80% of the cattle, 84% of the sheep off summer pastures compared with the 5-year average of 68% of the cattle, 74% of sheep moved off by this time.

NEBRASKA: Days suitable for fieldwork 6.2. Topsoil moisture 2% very short, 22% short, 76% adequate. Subsoil moisture 5% very short, 23% short, 72% adequate. Corn harvest 75%, 10 days ahead of 60% 1997, 48% avg. Soybean harvest 87%, 89% 1997, 91% avg. Sorghum harvest 76%, ahead of 75% 1997, 56% avg. Alfalfa 26% fair, 67% good, 4% excellent. Wheat emergence 96%, just behind 98% 1997, 98% avg. Pasture feed 4% very poor, 10% poor, 28% fair, 55% good, 3% excellent. Producer activities; sugar beet, sunflower, fall tillage, fertilizer application, fencing, weaning calves, livestock health programs.

NEVADA: Week began with temperatures below normal everywhere except Winnemucca. By week's end, temperatures were below normal statewide. Precipitation was light early in the week, but rain showers visited statewide over the weekend. Last cutting of alfalfa neared completion. Winter wheat, barley planting closing in on completion. Mint distilling continued in Orovada. Garlic, onion harvests were wrapping up. Potato harvest continued in Humboldt County. Pasture, range condition remained mostly good. Cattle movement to fall pastures continued along with marketing, shipping of cattle. Main farm, ranch activities: Haying, potato harvest, garlic, onion harvest, grain planting, mint distilling, cattle marketing.

NEW ENGLAND: Days suitable for fieldwork 6.2. Topsoil moisture 5% short, 84% adequate, 11% surplus. Subsoil moisture 14% short, 75% adequate, 11% surplus. Pasture feed 1% very poor, 20% poor, 29% fair, 49% good, 1% excellent. Maine potatoes 99% harvested, 95% 1997, 99% avg.; condition good to fair. Massachusetts potatoes 100% harvested, 99% 1997, 99% avg.; condition good to fair. Rhode Island potatoes 95% harvested, 99% 1997, 99% avg.; condition good to fair. Field corn 95% harvested, 85% 1997, 90% avg.; condition good. Second-cut hay 99% harvested, 95% 1997, 99% avg.; condition good to fair. Third-cut hay 90% harvested, 95% 1997, 95% avg.; condition good to fair. Apples 95% harvested, 95% 1997, 95% avg.; size average; condition good. Pears 99% harvested, 99% 1997, 99% avg.; size average; condition good to fair. Cranberries 90% harvested, 90% 1997, 90% avg.; size average, condition good. Major farm activities included: Harvesting apples, pears, cranberries, potatoes, field corn, hay. Farmers continued with end-of-season chores including planting cover crops, removing irrigation equipment, spreading manure, lime.

NEW JERSEY: Days suitable for fieldwork 7. Farmers are harvesting fall vegetables, planting cover crops (wheat, rye) spraying for disease, pests. Amount of feed requirements that pastures are supplying is average. Irrigation water supply is adequate. Farmers are harvesting fall items (spinach, cabbage, parsley, endive, escarole, lettuce, turnips, sweet potatoes, pumpkins), with the harvesting of summer vegetables (tomatoes, peppers, cucumbers) nearly complete. Cranberry harvest is winding down. Apple harvest continues, with a good supply reported. Harvesting of soybeans, corn for grain continues. Pasture conditions are fair.

NEW MEXICO: Days suitable for fieldwork 5.4. Topsoil moisture 19% very short, 41% short, 38% adequate, 2% surplus. Wet weather across most of the State last week slowed harvest. Accumulated precipitation for the week reached 1.82 in. the northwest. When the weather permitted, farmers continued with fall harvest of chile, corn, sorghum, cotton, lettuce, apples. Green chile harvest completed, red chile harvest advanced to 31% picked, 34% 1997; 1% poor, 38% fair, 53% good, 8% excellent. Corn harvest continued with 79% of the grain in, 81% 1997; 3% poor, 33% fair, 57% good, 7% excellent. Sorghum harvest, slowed by the weather, made very little progress last week. Cotton harvest moved slowly to 18% complete. Hay producers were finishing up final cuttings of the year. Sixth cutting moved to 70% complete; 5% poor, 40% fair, 47% good, 8% excellent. With 40% of the lettuce crop harvested, 20% fair, 48% good, 32% excellent. Apple harvest almost completed with 93% of the crop picked, 100% 1997; 12% poor, 30% fair, 58% good. Fall planting continued. Eighty-two percent of the onion crop was in the ground as wheat planting was completed across the State. Pecans remained in good condition. Cattle, sheep stayed in fair to good condition. Range, pasture feed conditions remained steady.

NEW YORK: Days suitable for fieldwork 5.9. Soil moisture 13% short, 83% adequate, 4% surplus. Pasture feed 2% poor, 26% fair, 65% good, 7% excellent. Corn 29% fair, 42% good, 29% excellent. Silage corn harvest near complete, 95% 1997, 93% avg. Grain corn 77% harvested, 34% 1997, 28% avg. Harvest 2 weeks ahead of average. Soybean harvest in full swing. Dry beans 75% harvested. Potato harvest continued. Apple, grape harvests near complete. Cider making in full swing. Cabbage, pumpkin harvests continued. Harvest over for most other vegetable crops.

NORTH CAROLINA: Days suitable for fieldwork 6.6. State enjoyed a great week of weather that made the farmers, State Fair goers happy. This year's Fair broke the all-time attendance record. Last weeks good weather conditions proved to be helpful to harvest progress of sweet potatoes, cotton. These harvestings are well above the 5-year average. Soil moisture remains short in most areas, for the State 22% very short, 47% short, 30% adequate, 1% surplus. Activities included: Harvesting

cotton, peanuts, sweet potatoes, soybeans, sorghum; planting small grains; tending livestock.

NORTH DAKOTA: Days suitable for fieldwork 6. Topsoil moisture 4% short, 90% adequate, 6% surplus. Subsoil moisture 1% very short, 13% short, 81% adequate, 5% surplus. Producers made excellent progress on row crop harvest due to favorable weather during the week. Dry weather prompted fall tillage, chemical applications. Late-season crop harvest continued at a pace ahead of avg., except potatoes, soybeans. Corn for grain 74% harvested; 69% 1997; 52% avg.; potatoes 98% dug; 100% 1997; 99% avg.; soybeans 89% harvested; 98% 1997; 90% avg.; sugar beets 95% lifted; 92% 1997; 93% avg.; sunflower 71% harvested; 81% 1997; 58% avg. Producers reported the most progress on sunflower harvest, about 1 week ahead of the average. Pasture, ranges were reported as being in good condition for this time of year. Pasture feed 5% very poor, 14% poor, 39% fair, 39% good, 3% excellent. Stockwater supplies 4% short, 93% adequate, 3% surplus.

OHIO: Days suitable for fieldwork 5.5. Topsoil moisture 3% very short, 22% short,73% adequate, 2% surplus. Corn harvested for grain 52%, 25% 1997, 37% avg.; harvested for silage 95%; 88 % 1997; 94% avg. Soybeans harvested 92%, 90% 1997, 83% avg. Winter wheat planted 96%, 93% 1997, 90% avg.; emerged 76%, 51% 1997, 55% avg. Tobacco 16% stripped, 6% 1997. Fall, winter apples 94% harvested, 82% 1997, 80% avg. Pasture feed 3% very poor, 12% poor, 38% fair, 40% good, 7% excellent. Winter wheat 19% fair, 62% good, 19% excellent. Frost has ended the season for some of the tender vegetable crops, particularly in the northern part of the State. However, some producers are still harvesting pumpkins, squash, apples, cabbage, tomatoes, cucumbers, eggplant, peppers. Mildew is still being reported on pumpkins along with scab damage on apples. Other activities include combining soybeans, shelling corn; sowing wheat, rye; fall plowing; picking ear corn; applying fertilizer, lime; hauling manure; installing tile; bushhogging; repairing fences; preparing equipment for storage; baling corn stalks; weaning, vaccinating calves; stripping tobacco; pressing cider. Weed pressures have diminished significantly as foxtail, ragweed, nutsedge, quackgrass, thistles were the only problems reported. Most of the damage to crops has been by turkeys, raccoons, beavers. Pasture regrowth has been adequate throughout most of the State, with only a few exceptions. Many producers are feeding hay to livestock, particularly in the southern half of the State where the dry summer stressed pastures, limited regrowth.

OKLAHOMA: Days suitable for fieldwork 5.1. Topsoil moisture 2% very short, 26% short, 71% adequate, 1% surplus. Subsoil moisture 8% very short, 31% short, 61% adequate. Cool, dry weather dried fields, allowed small grain seeding, row crop harvest. Oats 83% planted, 56% 1997, 61% avg.; 51% up-to-stand, 32% 1997, 34% avg. Corn 100% harvested, 99% 1997, 96% avg. Sorghum 55% harvested, 40% 1997, 33% avg. Soybeans 51% harvested, 43% 1997, 48% avg. Peanuts 59% combined, 59% 1997, 54% avg. Alfalfa hay 4% very poor, 10% poor, 36% fair, 45% good, 5% excellent; 84% 4th cutting, 95% 1997, 98% avg.; 23% 5th cutting, 42% 1997, 61% avg. Other hay 50% 2nd cutting, 81% 1997, 96% avg. Livestock 2% very poor, 8% poor, 28% fair, 61% good, 1% excellent. Cattle marketings mostly average.

OREGON: Days suitable for fieldwork 6.5. Topsoil moisture 16% very short, 44% short, 39% adequate, 1% surplus. Subsoil moisture 7% very short, 22% short, 71% adequate. Barley planted 45%, 48% 1997, 42% avg. Winter wheat 13% fair, 87% good; planted 83%, 88% 1997, 80% avg.; emerged 63%, 61% 1997, 50% avg. Range, pasture feed 1% very poor, 6% poor, 32% fair, 60% good, 1% excellent. Activities: Fall tillage, seeding activities moved forward across the State. Silage harvest, some haying activities continued. Fertilizing, pesticide applications reported in multiple counties. Good growth reported in some sugar beet seed fields. Nurseries, greenhouses busy with movement of balled, burlapped material, containers to market destinations. Christmas trees in good condition, most growers pre-sold out. Potato, onion harvest activities winding down in eastern areas. Potato fields fumigated in some counties. Western areas harvest of cauliflower, broccoli continued. Processing of onions, potatoes continued. Hazelnut harvest continued in Willamette Valley. Berry growers completed winter preparation. Rogue River Valley pear, apple harvests finished, grape harvest continued. South coast cranberry crop harvest continued. Hood River Valley pear harvest completed in lower valley, braeburn, fuji apple harvest began. In upper valley, selective picking of red delicious apples underway. Milton Freewater fuji apple harvest continued. Livestock condition good. In east, fall weaning, vaccinating, pregnancy checking ongoing. Range growth dormant. Willamette Valley pastures continued to improve, reduce need for supplemental feeding. Southwest pasture growth started.

PENNSYLVANIA: Days suitable for fieldwork 5.9. Soil moisture 16% very short, 19% short, 63% adequate, 2% surplus. Ensilage corn harvested 96% harvested, 89% 1997, 92% avg. Soybean harvest 30% complete, 38% 1997. 37% avg. Soybean 2% very poor, 4% poor, 16% fair, 71% good, 7% excellent. Potato harvest 87% complete, 89% 1997, 88% avg. Fall plowing 74% complete, 80% 1997, 78% avg. Barley planted 95% complete, 97% 1997, 93% avg.; emerged 65% complete, 68% 1997, average not available. Alfalfa 3rd cutting 100% complete, 97% 1997, 97% avg.; 4th cutting 82% complete, 76% 1997, 73% avg. Quality of hay made 7% poor, 35% fair, 41% good, 17% excellent. Grape harvest 90% complete, 77% 1997, 86% avg. Apple harvest 88% complete, 79% 1997, 84% avg. Activities: Fall plowing; cutting hay and haylage; harvesting grapes, apples, corn, soybeans, potatoes and fall vegetables; seeding wheat, barley and cover crops; filling silos; machinery maintenance; fixing fences; hauling, spreading manure; spreading lime; constructing new barns, poultry houses; caring for livestock.

SOUTH CAROLINA: Days suitable for fieldwork 6.5. Soil moisture 19% very short, 51% short, 29% adequate, 1% surplus. Apples 98% harvested, 94% 1997, 92% avg. Barley 55% planted, 55% 1997, 39% avg.; 32% emerged, 41% 1997, 25% avg.; 93% fair, 7% good. Grapes 65% fair, 35% good. Livestock 5% poor, 32% fair, 60% good, 3% excellent. Oats 53% planted, 52% 1997, 45% avg.; 35% emerged, 40% 1997, 32% avg.; 4% poor, 55% fair, 41% good. Pasture feed 3% very poor, 12% poor, 42% fair, 41% good, 2% excellent. Peanuts 73% harvested, 75% 1997, 73% avg.; 14% very poor, 28% poor, 43% fair, 15% good. Pecans 30% harvested, 23% 1997, 18% avg.; 6% poor, 54% fair, 38% good, 2% excellent. Rye 58% planted, 61% 1997, 49% avg.; 39% emerged, 43% 1997, 35% avg.; 7% poor, 36% fair, 57% good. Sorghum 98% matured, 100% 1997; 67% harvested, 84% 1997; 2% very poor, 9% poor, 53% fair, 35% good, 1% excellent. Sweet potatoes 75% harvested, 80% 1997, 57% avg.; 5% fair, 90% good, 5% excellent. Tobacco 99% stalks destroyed, 99% 1997, 96% avg. Winter grazings 73% planted, 76% 1997, 67% avg.; 55% emerged, 53% 1997, 47% avg.; 7% very poor, 11% poor, 36% fair, 46% good. Winter wheat 26% planted, 31% 1997, 16% avg.; 15% emerged, 21% 1997, 9% avg.; 18% poor, 35% fair, 47% good.

SOUTH DAKOTA: Days suitable for fieldwork 4.6. Topsoil moisture 1% short, 84% adequate, 15% surplus. Subsoil moisture 2% short, 85% adequate, 13% surplus. Rains stopped harvest once again at the start of the week. Good fall weather by midweek had harvest back in full swing. Sunflower 75% harvested, 78% 1997, 64% avg. Sorghum 1% poor, 12% fair, 70% good, 17% excellent. Corn 1% poor, 6% fair, 45% good, 48% excellent. Soil conditions remain in good condition from the welcomed moisture. Winter rye 5% poor, 12% fair, 70% good, 13% excellent; emerged 97%, 99% 1997, 97% avg. Livestock remain in good condition with pastures benefiting from the moisture, good condition for winter, next spring. Livestock 1% poor, 7% fair, 66% good, 26% excellent. Stockwater supplies 4% short, 81% adequate, 15% surplus.

TENNESSEE: Days suitable for fieldwork 6.0. Topsoil moisture 18% very short, 40% short, 41% adequate, 1% surplus. Subsoil moisture 16% very short, 39% short, 42% adequate, 3% surplus. Burley 40% stripped, 31% 1997, 34% avg. Pasture feed 11% very poor, 29% poor, 35% fair, 23% good, 2% excellent. Winter wheat 53% seeded, 47% 1997, 47% avg.; 1% very poor, 5% poor, 24% fair, 59% good, 11% excellent. Scattered light frost throughout the State during the middle part of last week continued to aid burley tobacco growers with stripping. Winter wheat seeding passed the midway point as of 25th. Recent rains helped improve conditions, but more is needed. Pasture conditions remained poor due to a lack of moisture. Cattle producers

continued to feed a higher-than-normal amount of hay and in a few cases were forced to haul water. Some producers in the Eastern portion of the State completed their final hay cutting last week.

TEXAS: Rain continued in the Central region causing additional problems as people were cleaning up after flooding. Producers beginning to assess damages, look for livestock that strayed during flooding. Significant soil erosion occurred in plowed fields. Rain also spread through western areas of the State on backside of a strong cool front, kept field activities to a minimum. Cooler weather continued. The additional moisture improved small grains, cool season pasture grasses. Livestock conditions improved, with better grazing conditions in most areas.

Crops: Small Grains: Planting operations stalled in the Plains by rain early week. The moisture benefited dryland fields. Rain across most other areas also should benefit small grains. Cooler weather, rain slowed armyworm activity. Statewide winter wheat condition rated 51% normal, compared with 78% last year. Corn: Harvest operations were stalled for much of the week in the High Plains. Cotton: Harvest in full swing in the Plains until rainfall stalled progress early week. Yields continued varied across area. Grain Sorghum: Late-developing fields in the Plains needed warmer weather to mature. Rain halted harvest operations for much of the week. Peanuts: Yields lower than earlier expected in many fields in the Plains, North Central as wet fields stalled harvest. Harvest slowed in the South Central. Rice: Second crop harvest operations stalled most of the week along Upper Coast. Many fields lodging due to high winds, too much rain. Soybeans: Harvest winding down in the Plains on good crop as rain arrived, slowed progress. Harvest also slowed on later varieties along the Upper Coast.

Commercial Vegetables: Rio Grande Valley, scattered showers, wet fields slowed planting operations. San Antonio-Winter Garden, planting slowed by wet conditions most of the week. East, sweet potato harvest slowed, more decline in quality expected. High Plains, pepper harvest slowed early week. Trans Pecos, harvest chili, bell peppers slowly continued. Pecans: Flood waters washed out many groves along rivers, streams in the Central region causing both tree, nut loss. Harvest operations slowed by wet conditions in most areas.

Range and Livestock: Losses to pastures, fences, buildings, livestock continued to mount as flood waters began to recede in the Central region. Cooler weather, additional rain many areas improved cool season grasses, small grains. Livestock conditions improved in many areas with improved pastures. Prices up at many auctions, with light volumes because of wet conditions.

UTAH: Days suitable for fieldwork 6. Topsoil moisture 1% very short, 10% short, 85% adequate, 4% surplus. Subsoil moisture 14% short, 86% adequate. Pasture, range 15% poor, 20% fair, 51% good, 14% excellent. Cattle moved from summer range 88%, 88% 1997, 91% avg. Sheep moved from summer range 89%, 90% 1997, 92% avg. Winter wheat emerged 83%, 87% 1997, 80% avg. Corn: mature 87%, 86% 1997, 88% avg; harvested for grain 28%, 62% 1997, 46% avg. Onions harvested 86%, 99% 1997, 96% avg. Apples 87% picked, 92% 1997, 84% avg. Farmers are preparing for the end of harvest season.

VIRGINIA: Days suitable for fieldwork 6.8. Topsoil moisture 42% very short, 44% short, 14% adequate. Subsoil moisture 39% very short, 47% short, 14% adequate. Corn 86% harvested, 66% 1997, 76% avg. Cotton 74% harvested, 21% 1997, 36% avg. Soybeans 83% dropping leaves, 80% 1997, NA% avg.; 22% harvested, 21% 1997, 21% avg.; 10% very poor, 25% poor, 33% fair, 30% good, 2% excellent. Winter wheat 18% seeded, 18% 1997, 30% avg. Barley 52% seeded, 56% 1997, 69% avg. Fall apples 82% harvested, 80% 1997, 90% avg, Winter apples 68% harvested, 67% 1997, 70% avg.; apples 3% very poor, 9% poor, 41% fair, 40% good, 7% excellent. Pasture feed 26% very poor, 50% poor, 19% fair, 5% good. Topsoil moisture levels decreased again this past week, bringing acres of cropland categorized as short, very short to 86%. Fortunately many small grain producers benefited from the rain 2 weeks ago. These rain showers allowed for germination of early-planted acres. Some producers still have not been able to seed their small grain acreage due to the lack of significant rainfall. Pastures continue to suffer from the lack of moisture, currently three-fourths of the acres fall in the poor, very poor categories. Livestock producers are continuing to make preparations for feed requirements for the coming winter. Many areas of the Commonwealth have experienced cooler weather this past week, with several areas reporting a frost last 22nd night. Conditions suitable for fieldwork have allowed peanut, cotton harvest to progress rapidly. Cotton harvest continues to be ahead of normal levels, with peanut harvest slightly behind normal levels. Other activities for the week included continued marketing of cattle, stripping, grading, preparing burley tobacco for market, harvesting vegetables, applying lime, fertilizer, mowing ditches, banks, spreading manure on fields, overseeding pastures, hayfields.

WASHINGTON: Days suitable for fieldwork 6.9. Topsoil moisture 9% very short, 20% short; 71% adequate. Subsoil moisture 10% very short, 45% short, 45% adequate. Dry conditions in eastern areas continued to have a negative impact on the new crop of winter wheat. Potatoes 91% harvested, 93% 1997, 90% avg. Corn for grain 40% harvested, 19% 1997, 25% avg. Corn silage 98% harvested, 98% 1997, 97% avg. Potato harvest was completed in some areas, sugar beet harvest continued. Hay, other roughage supplies 5% short, 70% adequate, 25% surplus. Range, pasture feed 25% poor, 55% fair, 20% good. Unseasonably warm temperatures revitalized pastures in western areas. Cattle were in excellent condition. Late apple harvests continued, concord, most wine grape harvests were completed. Some areas reported that harvest labor was in short supply this year. Vegetable growers were busy with the final harvest, fall tillage.

WEST VIRGINIA: Days suitable for fieldwork 5.9. Topsoil moisture 18% very short, 51% short, 31% adequate. Apple harvest 93%, 67% 1997. Hay 3rd cut 95%, 90% 1997, 93% avg. Corn 13% poor, 37% fair, 49% good, 1% excellent; dent 97%, 100% 1997; mature 95%, 100% 1997; corn harvested for grain 60%, 50% 1997, 65% avg. Soybeans harvested for grain 81%, 44% 1997, 46% avg. Wheat planted 67%, 52% 1997, 63% avg.; emerged 44%. Cattle 4% poor, 15% fair, 76% good, 5% excellent. Sheep 2% poor, 19% fair, 69% good, 10% excellent. Dry weather conditions continue to plague some areas of the State. Rain is needed to restore soil moisture and improve pasture conditions.

WISCONSIN: Days suitable for fieldwork 5.7. Soil moisture 2% very short, 19% short, 74% adequate, 5% surplus. Soybeans harvested 79%, 93% 1997, 78% avg. For the second week in a row, farmers continued to experience great harvest weather. Most of the harvest activity was concentrated on soybeans, corn, as this is predominantly what is left in the fields. Currently 58% of the corn has been harvested. General consensus is that this year's crop is looking very good, with yields being average to well above average. Some corn yields reported by our crop weather reporters are: Lincoln Co. - 55 to 100 bu/acre; Dunn Co. - 100 to 150 bu/acre; Adams Co. - 190 to 200 bu/acre in southern part of county; 100 or less on dryland; Fond du Lac Co. - 180 to 200 bu/acre; Kewaunee Co. - over 200 bu/acre (Bt corn); Winnebago Co. - 100 to 180 bu/acre; Dane Co. - 140 to 200 bu/acre; Walworth Co. - over 200 bu/acre. With above-average amounts of hay and corn (both for grain and silage) harvested this year, many are reporting a shortage of storage space. This is reflected in our survey of hay, roughage supplies. Statewide, winter feed supplies are overwhelmingly rated at adequate to surplus. No district reported a shortage above 4%. Pasture feed 1% very poor, 13% poor, 33% fair, 43% good, 10% excellent.

WYOMING: Days suitable for fieldwork 5.6. Topsoil moisture 20% short, 75% adequate, 5% surplus. Subsoil moisture 25% short, 75% adequate. Corn harvested for grain 35%, 27% 1997, 50% avg. Alfalfa 3rd cutting 92%, 89% 1997, 97% avg. Sugar beets harvested 73%, 91% 1997, 82% avg. Range, pasture feed 1% very poor, 6% poor, 20% fair, 65% good, 8% excellent. Corn 2% poor, 8% fair, 83% good, 7% excellent. Winter wheat 11% fair, 82% good, 7% excellent. Stockwater 2% short, 97% adequate, 1% surplus. Nice weather improved day's suitable for fieldwork. Ranchers busy working livestock.

International Weather and Crop Summary

October 18 - 24, 1998

HIGHLIGHTS

FSU-WESTERN: Light showers eased prolonged dryness in winter wheat areas of eastern Ukraine and southern Russia, improving topsoil moisture for crop emergence and establishment.

EUROPE: Occasional showers in northwestern Europe continued to slow summer crop harvesting and winter grain planting.

NORTHWESTERN AFRICA: Dry weather helped pre-planting fieldwork in Morocco and western Algeria, while light showers caused only brief interruptions in Tunisia and central and eastern Algeria.

AUSTRALIA: Rain returned to New South Wales, slowing the winter grain harvest.

SOUTH ASIA: Inundating rain generated additional flooding in rice areas of eastern India and Bangladesh.

SOUTH AFRICA: Dry, warm weather aided seasonal fieldwork, including the planting of corn and other summer crops.

SOUTHEAST ASIA: Another strong typhoon ripped through the Philippines, damaging copra, sugarcane, and rice operations.

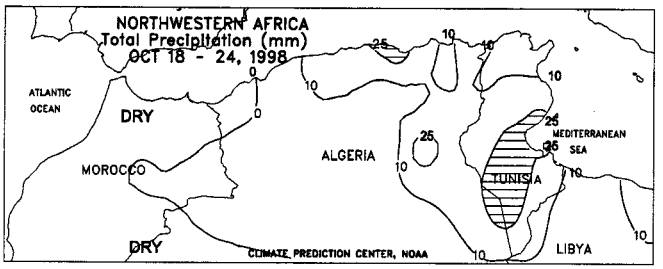
EASTERN ASIA: Dry weather returned to the mainland, aiding the summer harvest, but unfavorable wetness persisted over Japan's primary rice areas.

SOUTH AMERICA: Rain benefited Argentina's winter wheat, while much-needed dryness brought some relief to saturated crop areas of southern Brazil.

MEXICO: Corn maturation and early harvesting progressed across the Southern Plateau Corn Belt under mostly favorable conditions.

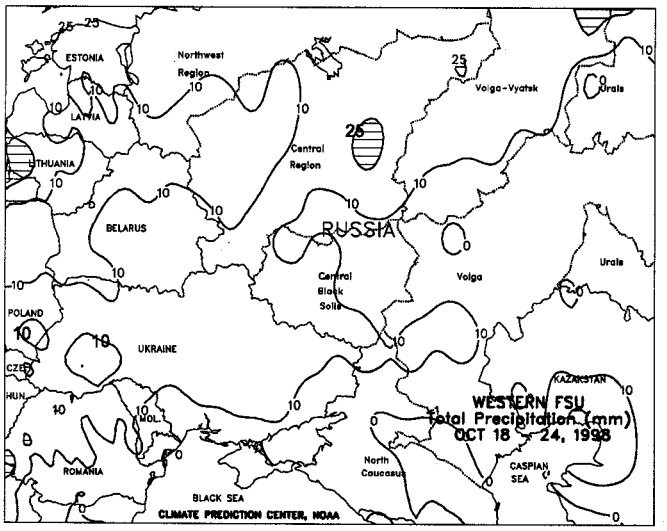
EUROPE

Occasional showers continued to fall over crop areas in the United Kingdom, France, the Benelux countries, and Germany, with rainfall increasing in intensity late in the week. Precipitation amounts generally ranged from 10 to 40 mm, with crop areas in western England and Ireland receiving rainfall in excess of 50 mm. The precipitation in these areas continued to slow summer crop harvesting and winter wheat planting, but provided abundant moisture for newly emerging winter wheat and rye and developing winter barley and rapeseed. Farther south, dry weather prevailed over Portugal and southern Spain, helping summer crop harvesting and fieldwork for early winter grain planting. Showers (10-36 mm) returned to northern Italy, interrupting fieldwork. In eastern Europe, light showers fell from Poland southward through the Czech Republic and Slovakia into Hungary, causing only brief delays in fieldwork and maintaining sufficient moisture conditions for winter grain establishment. Farther south, beneficial dryness prevailed in southern Romania and Bulgaria, improving conditions for summer crop harvesting and winter wheat planting, seriously delayed by earlier wetness. Warm, dry weather in Greece favored cotton harvesting. Weekly temperatures across Europe ranged from 1 to 3 degrees C above normal, favoring rapid emergence and development of winter crops.



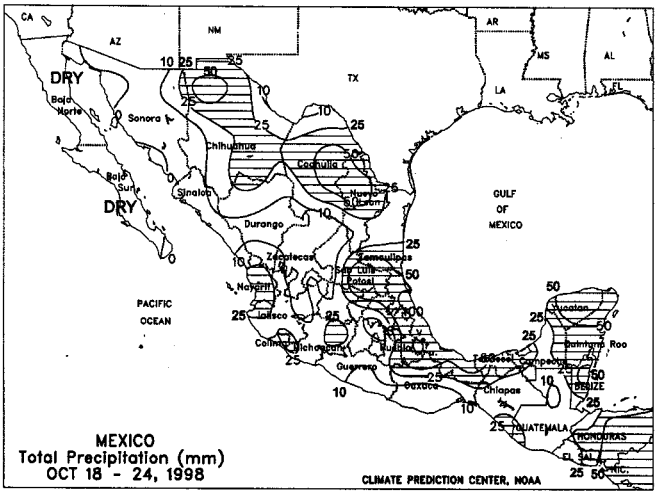
NORTHWESTERN AFRICA

Preparations for winter grain planting continued over most of the region. Mostly dry weather in Morocco and western Algeria favored pre-planting fieldwork. Producers in these areas likely await the onset of consistent autumn rains before widespread planting can begin. Farther east, variable showers in Tunisia and central and eastern Algeria may have prompted some early planting. Significant rain (18-42 mm) fell in central and southern Tunisia, well south of the principal winter grain-producing areas.



FSU-WESTERN

Light showers (5-17 mm) brought some relief from prolonged dryness in eastern Ukraine and southern Russia (southern Black Soils Region, lower Volga Valley, and the North Caucasus), improving moisture conditions for winter wheat emergence and establishment. However, additional rain and mild weather are needed to ensure that crops become sufficiently established before entering dormancy. Typically winter wheat in these areas enters dormancy by mid-November. Reports as of October 23 indicated that winter grain planting in Ukraine was lagging the normal pace due to a lack of fuel to run farm machinery as well as dry topsoils. Corn, sunflower, and sugar beet harvests continued to progress in Ukraine and southern Russia, with light showers causing only brief interruptions in fieldwork. Farther north, showers (4-25 mm) and unseasonably mild weather in the Baltics, Belarus, and northen Russia allowed continued vegetative growth of winter grains. Winter grains in these areas continued to cold-harden prior to dormancy. Weekly temperatures averaged 2 to 4 degrees C above normal in Russia, Ukraine, Belarus, and the Baltics.

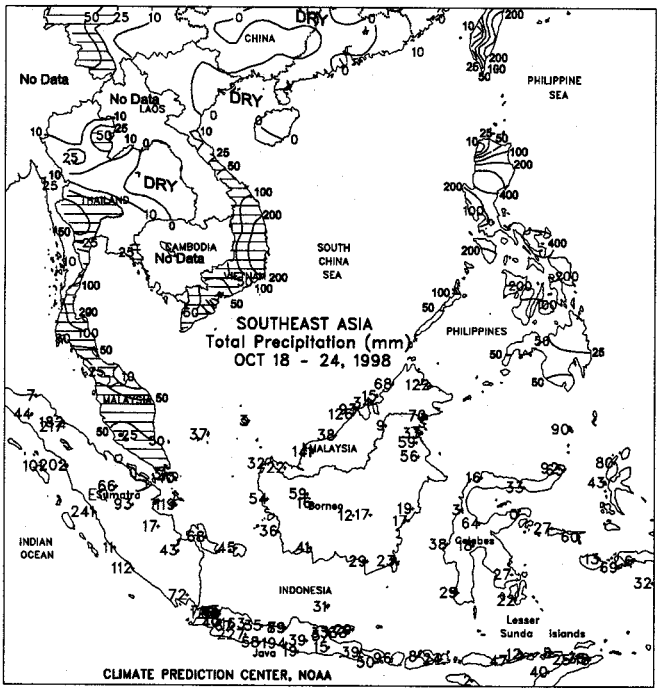


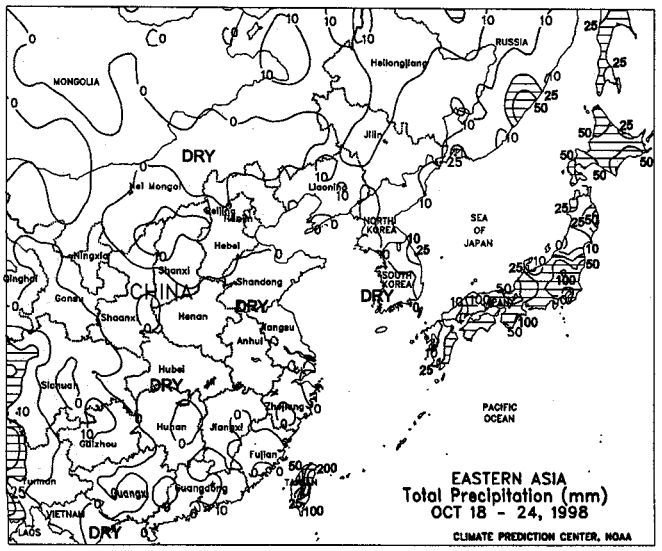
MEXICO

Only light rain (mostly less than 25 mm) fell across the Southern Plateau Corn Belt, favoring corn maturation and early harvesting. Near-normal temperatures prevailed across the Corn Belt. Moderate to heavy rain (50-150 mm) persisted, however, in east-central Mexico, including Veracruz, maintaining very wet conditions. Beneficial rain (10-60 mm), partly due to the remnants of Hurricane Madeline, fell in north-central and northeastern Mexico. The moisture eased long-term drought and improved pastures. Cool weather accompanied the rain, however, holding temperatures as much as 4 degrees C below normal.

SOUTHEAST ASIA

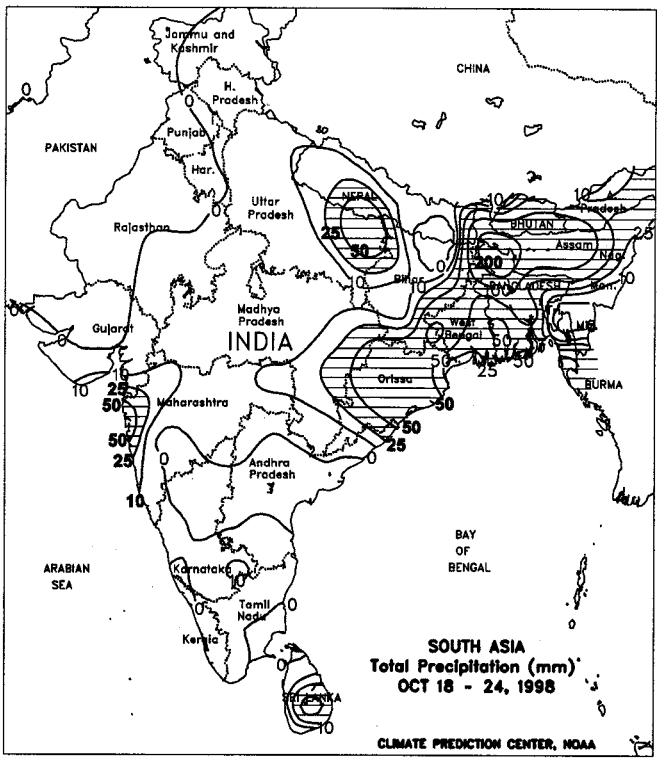
For the second week, a powerful cyclone hit the northern Philippine island of Luzon. Hurricane Babs struck the island's southeastern tip with sustained winds of well over 100 mph, causing an indeterminable amount of damage to that region's copra, sugarcane, and rice industry. High winds and very heavy rain (100-300 mm or more) prevailed over much of southern Luzon and the nearby Visayan Islands, which typically account for about 30 percent of the nation's coconut production. Heavy rain (50-100 mm, locally exceeding 300 mm) also soaked a broad section of central Vietnam, causing some flooding and possible damage to unharvested rice. In Thailand, main-season rice harvesting made some progress in the north and east, although moderate to heavy showers (25-50 mm or more) continued from the lower Chao Phraya near Bangkok southward through the Malay Peninsula. The rain extended southward into the northern oil palm areas of western Malaysia. Widespread tropical showers continued in eastern Malaysia as well as most of Indonesia. Pre-planting activities in Java were disrupted by very heavy rain (100 mm or greater), which caused some flooding and possible damage to rice seedlings.





SOUTH ASIA

A shift in the monsoon pattern brought heavy rain (50-100 mm or more) to eastern India and Bangladesh, while allowing drier conditions to develop elsewhere in the region. The heavy rainfall in the east likely caused additional flooding in major rice areas while disrupting main-season harvests and the planting of secondary crops. In contrast, dryness was welcomed in India's southern interior following weeks of incessant, locally heavy rain. Farther north, the break in the unfavorably wet pattern was beneficial for mature cotton and rice. Winter grain and oilseed planting, usually underway by now, should be off to a good start in terms of moisture for germination.

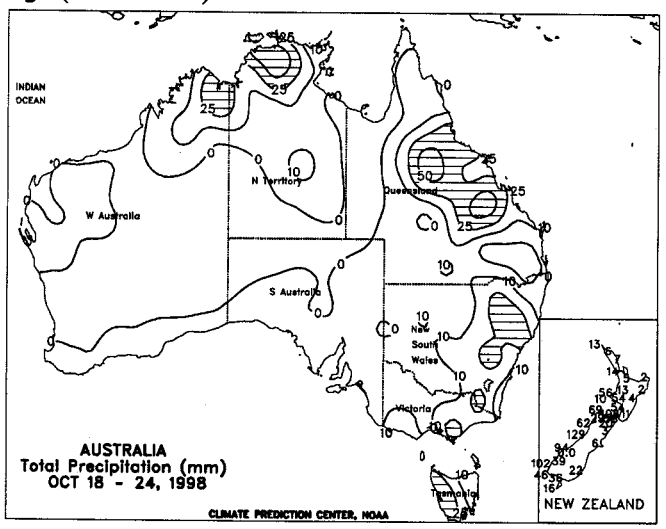


EASTERN ASIA

Dry weather returned to southern and central China, with temperatures averaging 1 to 2 degrees C throughout the region. Although conditions favored summer harvests, the North China Plain needs additional rain to support normal germination and establishment of winter wheat. In Manchuria, scattered, mostly light showers (2-20 mm) caused minor delays in the summer grain and oilseed harvest. Temperatures averaged 2 to 4 degrees C above normal, but a killing freeze extended as far south as the Korean Peninsula, ending the growing season. Dry weather favored rice harvesting in North and South Korea as heavy rains (50-100 mm or more) continued to plague the main rice areas of southern and central Japan.

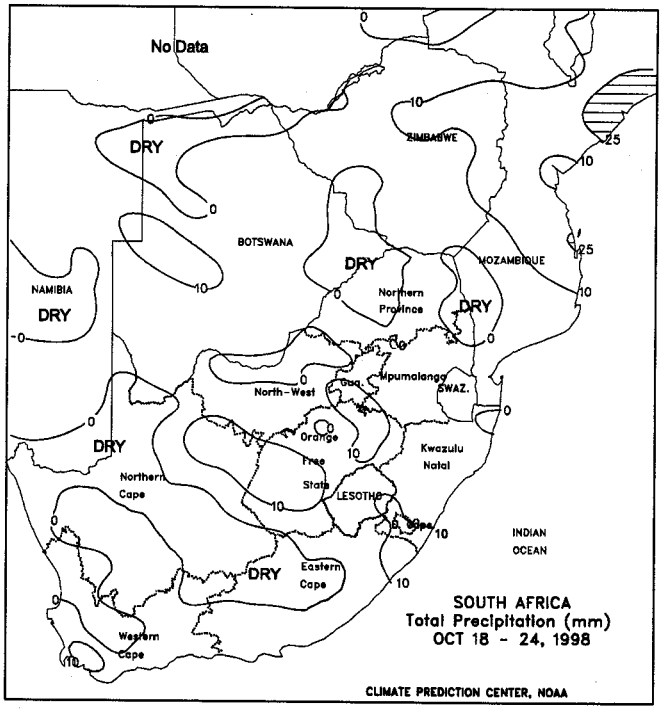
AUSTRALIA

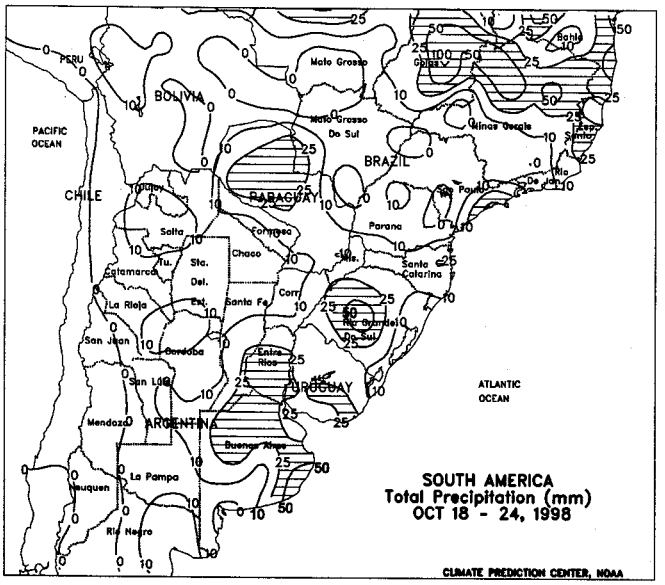
Scattered showers (5-25 mm or more) returned to primary crop areas of New South Wales. The rain hampered seasonal fieldwork that included winter grain harvesting and summer crop planting. To the south, the mostly light rainfall was generally favorable for immature wheat and barley in Victoria and southeastern South Australia. In Queensland, continued dryness further improved conditions for winter grain harvests, as well as cotton and sorghum planting. However, by week's end, rain had returned to the northern summer crop areas. Temperatures averaged 1 to 2 degrees C below normal throughout the east, reducing crop growth and evapotranspiration rates. Mostly cool, dry weather slowed crop development in Western Australia as well. In New Zealand, pockets of heavy showers (50 mm or more) covered southern sections of North Island and much of the western and southern South Island. Rainfall in most other crop areas was relatively light (25 mm or less).



SOUTH AFRICA

Dry weather dominated the region for much of the week, allowing summer crop planting and winter grain harvesting to advance. The dryness in the eastern corn belt was especially welcomed following weeks of unseasonable wetness. Typically, most of the corn crop is planted by the end of December. Early-planted crops are not as susceptible to summer heat stress or damage from an early autumn freeze. Elsewhere, mostly dry conditions favored fieldwork in the coastal sugarcane areas of Kwazulu-Natal. In Western Cape, widely scattered showers caused only minor disruptions in the activities involving the wheat harvest.





SOUTH AMERICA

Drier weather brought some relief to farmers in southern Brazil. The much-needed break in the pattern of unrelenting rainfall was favorable for maturing wheat, and allowed summer planting to briefly resume. However, locally heavy showers (25-50 mm) moved into Rio Grande do Sul at week's end. Wheat harvesting in Rio Grande do Sul was reportedly 29 percent completed, compared with 90 percent completion in Parana. In central Argentina, beneficial rain (10-40 mm) aided immature wheat in Buenos Aires and southern Santa Fe. Showers were mostly scattered and light from Cordoba and La Pampa westward. Sunflowers are reportedly 21 percent sown, versus 15 percent last year. Corn planting was experiencing delays attributed to unfavorable dryness, with 32 percent planted versus 40 percent last year.

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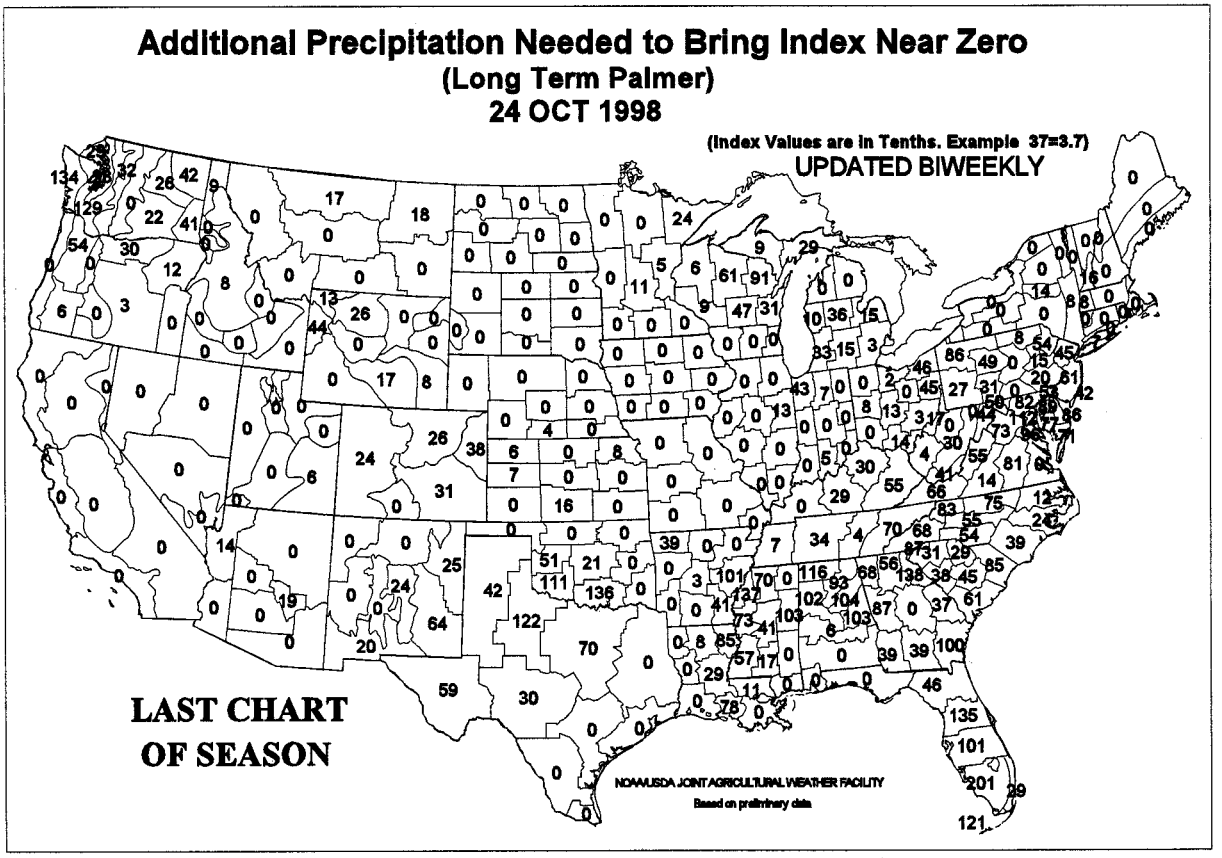

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