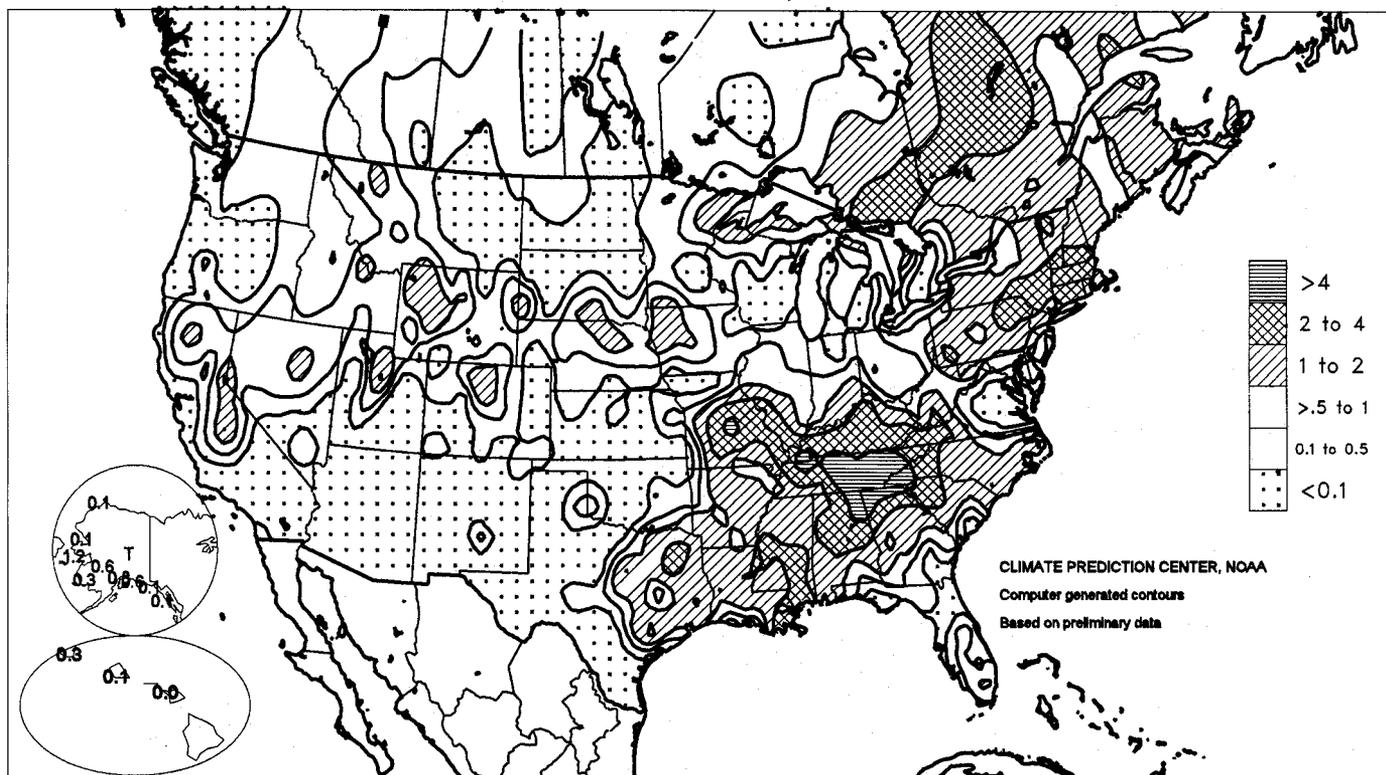


WEEKLY WEATHER AND CROP BULLETIN

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

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

Total Precipitation (Inches)
MAY 31 - JUN 6, 1998



HIGHLIGHTS

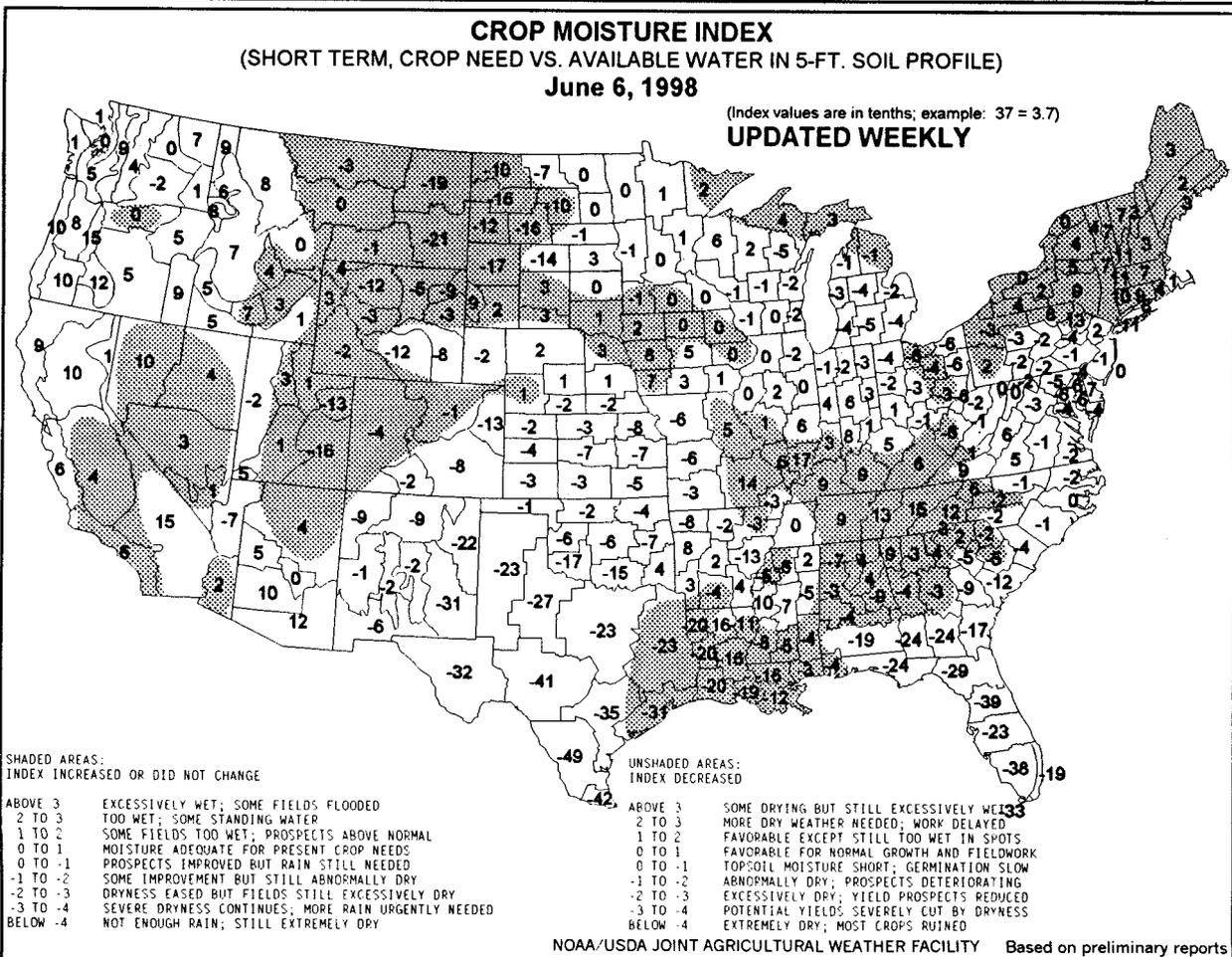
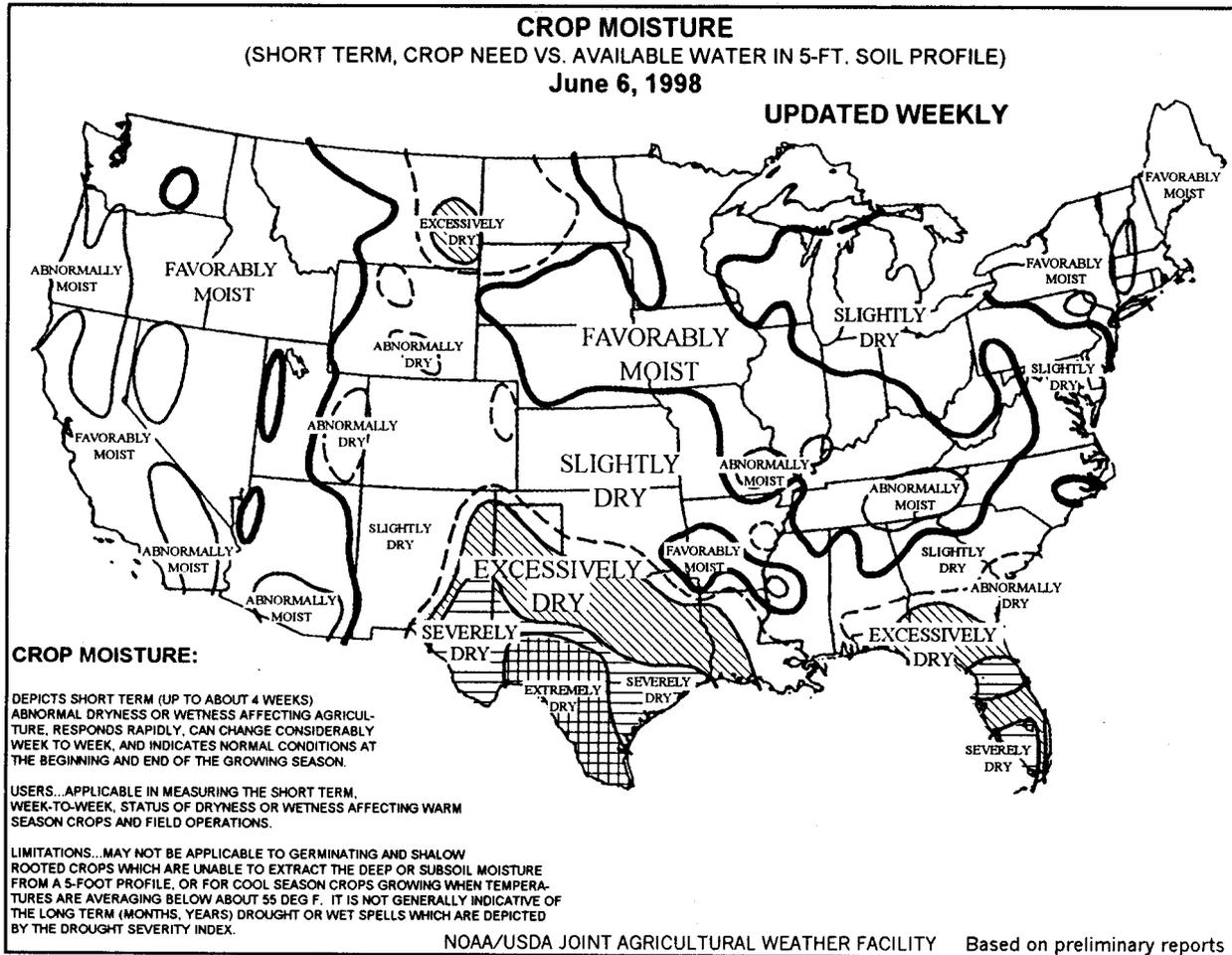
May 31 - June 6, 1998

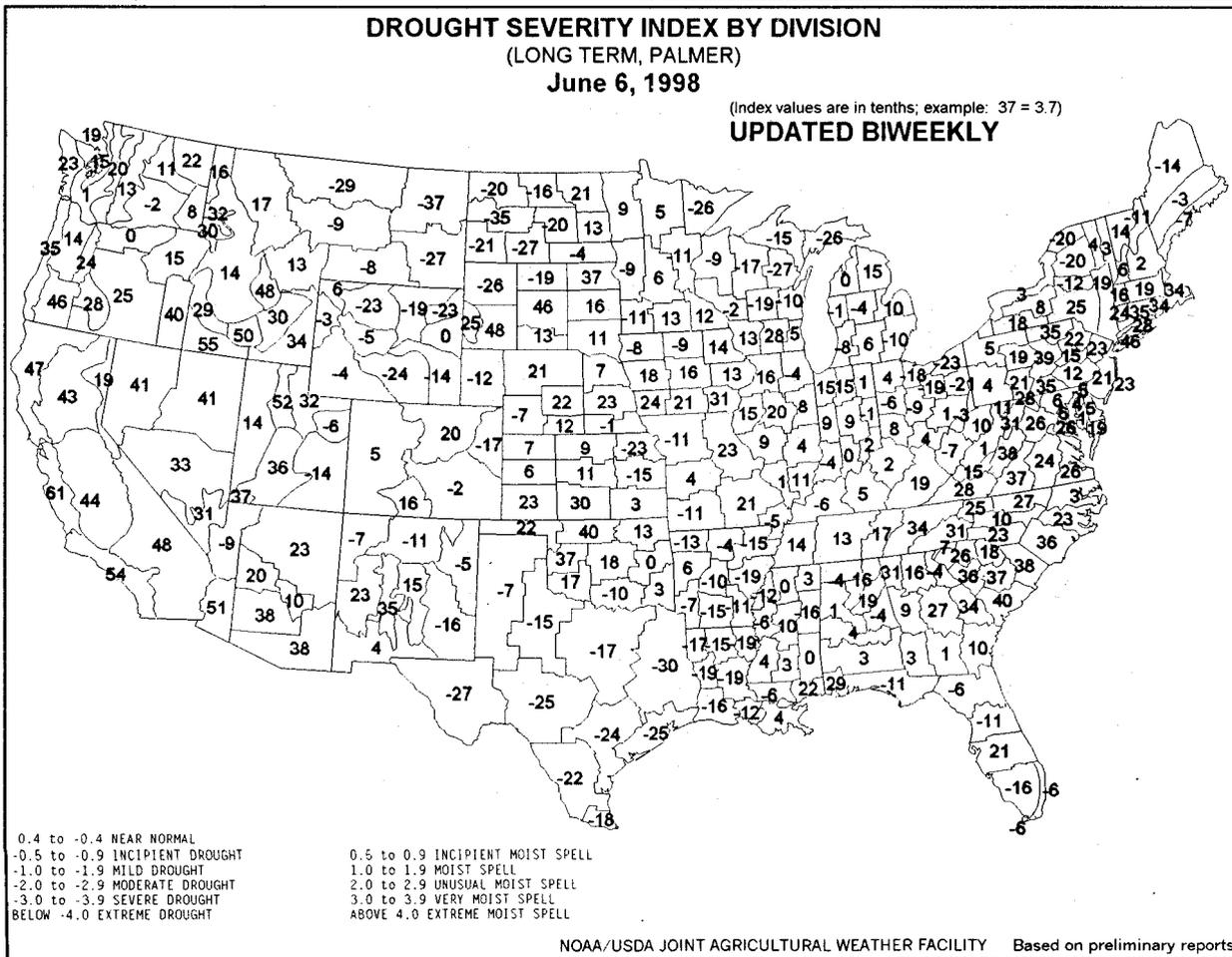
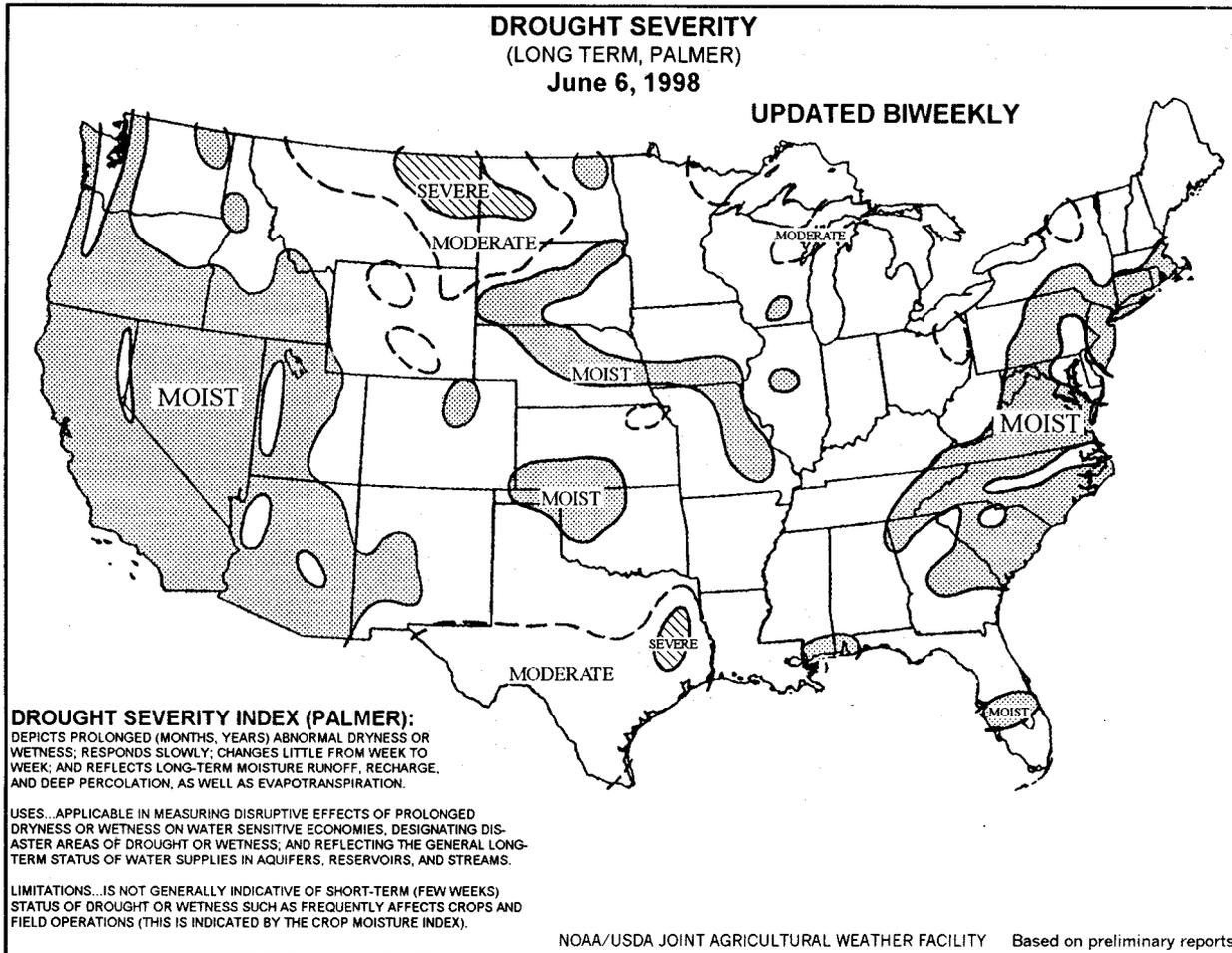
Cool air gradually won a battle between sharply contrasting air masses, ending a record-setting hot spell across the **South**. Before the arrival of cooler air, more than 100 daily-record highs were established, including 110-degree heat in parts of **Texas** and **Oklahoma**. In addition, nearly 100 daily-record lows were set during the week, more than half of which occurred on June 6. At week's end, near-freezing temperatures were noted as far south as the **central High Plains**. In **California**, where weekly temperatures averaged as much as 9°F below normal, crop development was hampered for a fifth consecutive week by cool, damp conditions. Weekly readings ranged from 8 to 12°F below

(Continued on page 7)

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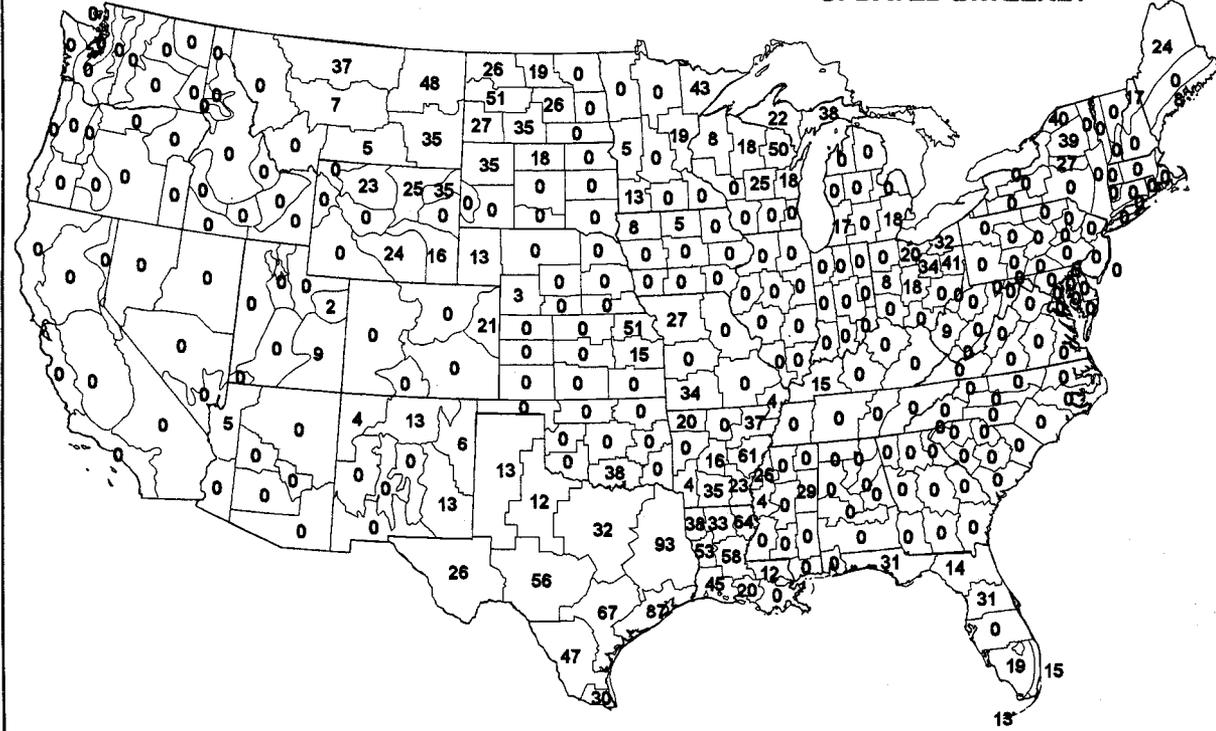
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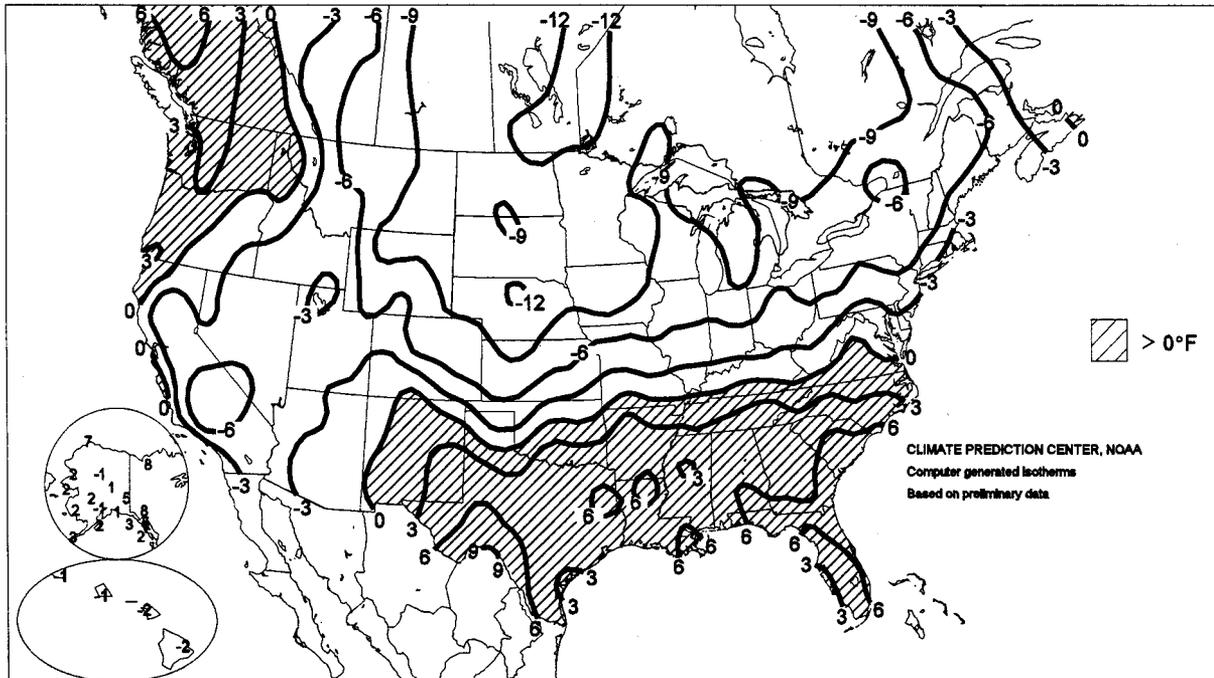
ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX NEAR ZERO
 (LONG TERM, PALMER)
 June 6, 1998

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

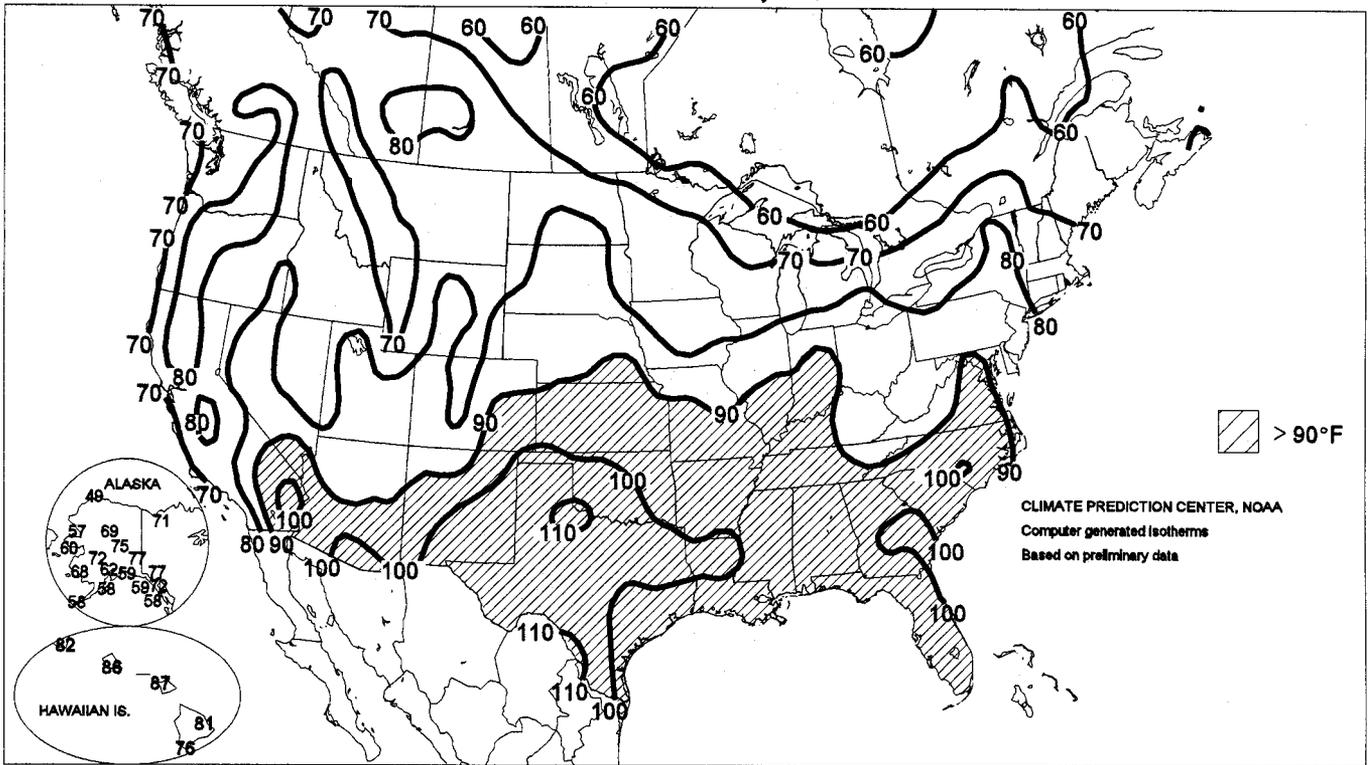


NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

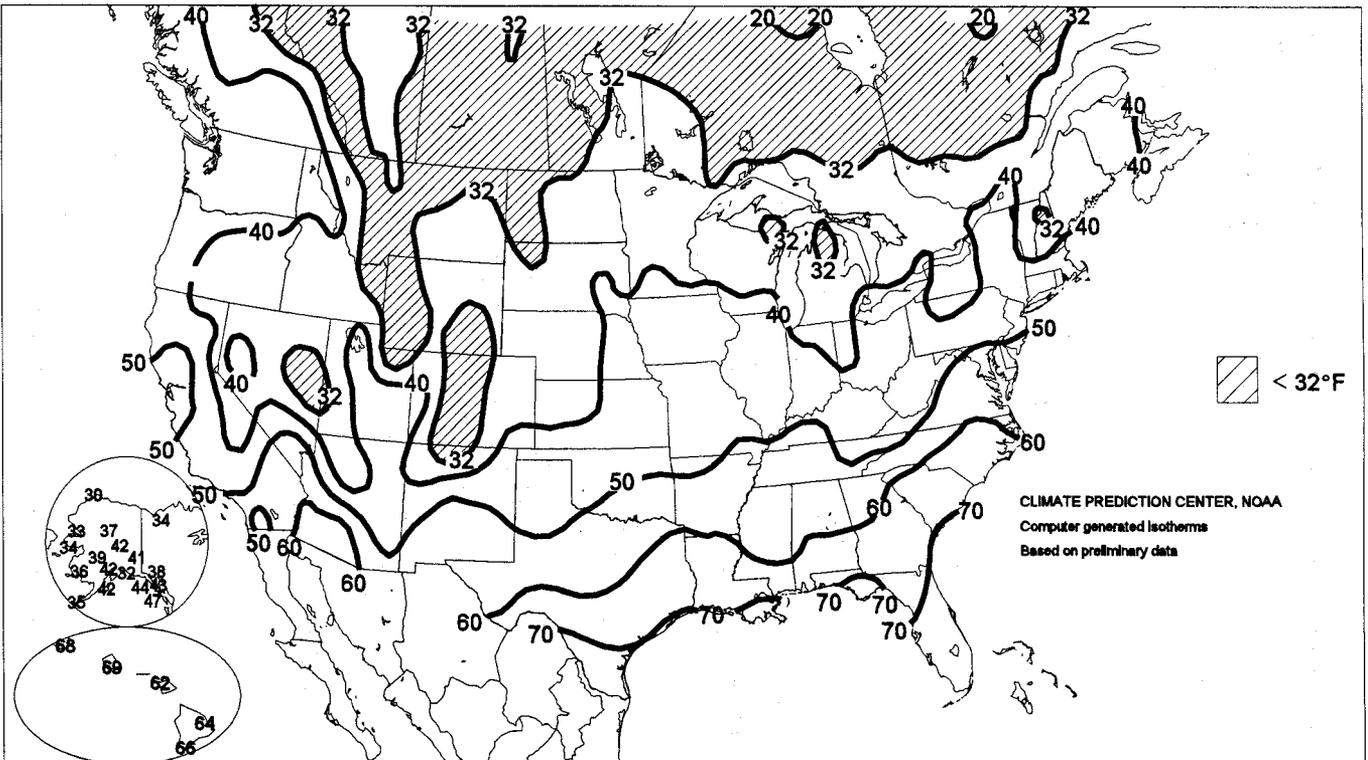
Departure of Average Temperature from Normal (°F)
MAY 31 - JUN 6, 1998



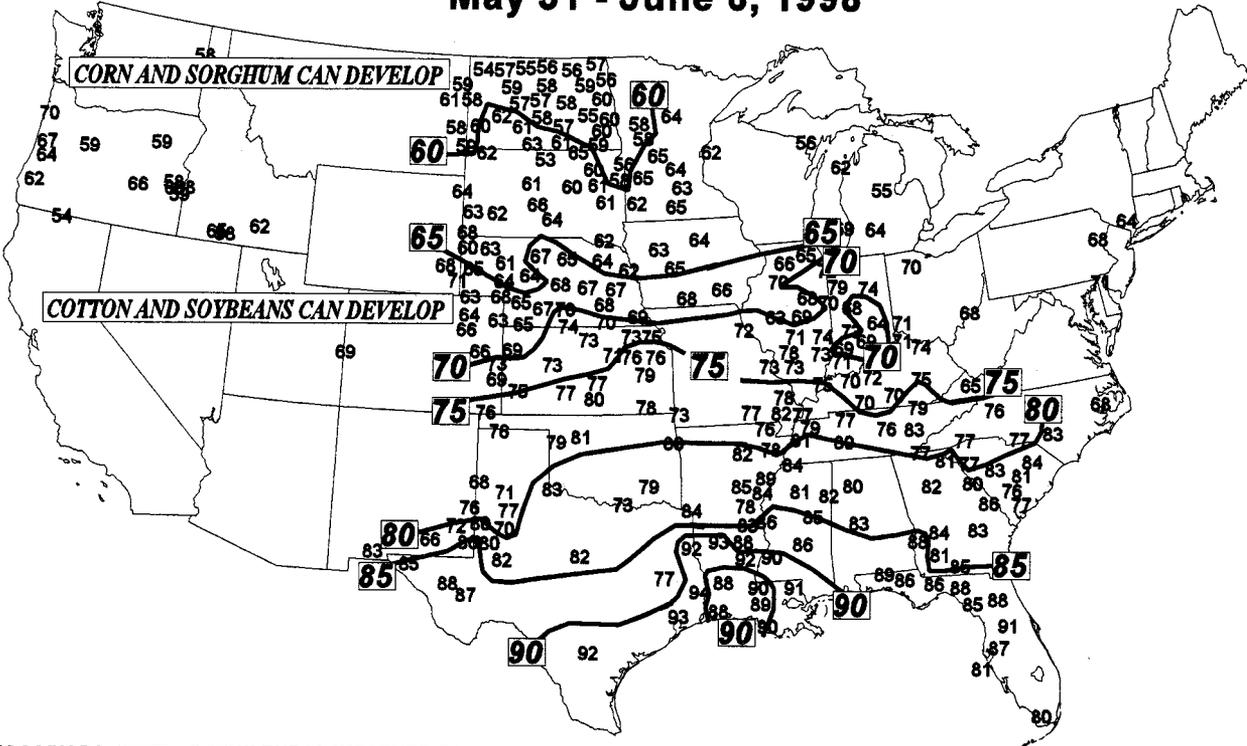
Extreme Maximum Temperature (°F) MAY 31 - JUN 6, 1998



Extreme Minimum Temperature (°F) MAY 31 - JUN 6, 1998

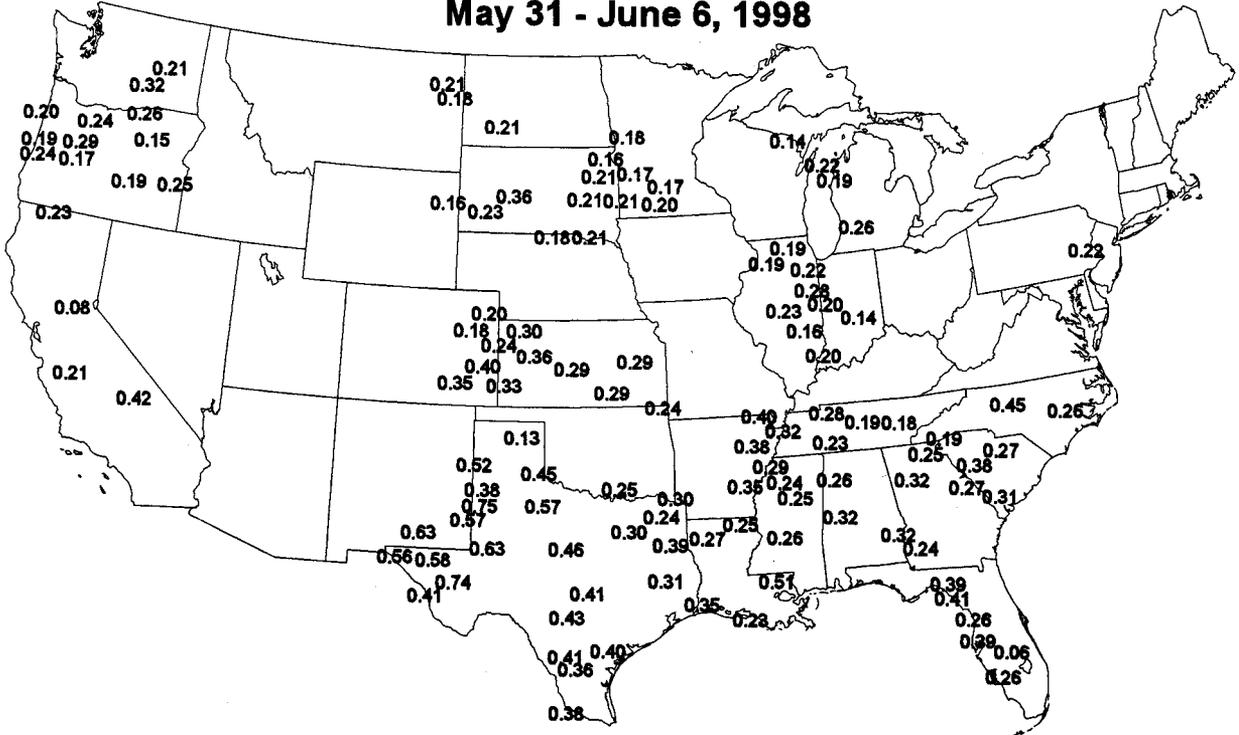


Average Soil Temperature (°F 4-Inch Bare) May 31 - June 6, 1998



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

Average Pan Evaporation (Inches/Day) May 31 - June 6, 1998



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

(Continued from front cover)

normal across the northern Plains and upper Midwest, but were 2 to 8°F above normal in the Southeast. Beneficial rains fell across the Northeast and Southeast, but locally excessive totals pelted the Tennessee and Cumberland Valleys.

On Sunday, May-record highs were tied or broken in **Monroe, LA** (104°F), **Shreveport, LA** (102°F), **Tyler, TX** (100°F), and **Lufkin, TX** (99°F). Farther west, **Wichita Falls, TX** notched their first of four consecutive daily-record highs (108, 110, 109, and 102°F). Similarly, **Midland, TX** posted their last of five consecutive records (104, 106, 107, 108, and 111°F) on Wednesday. In **Oklahoma** on Tuesday, **Oklahoma City** recorded 105°F, their highest since a 106-degree reading on July 7, 1996, while **Altus** logged 113°F. Ironically, several southern Plains cities reported daily-record lows at week's end, including **Oklahoma City** (50°F) and **Midland** (55°F). In **Amarillo, TX**, Saturday's low of 41°F came only 4 days after a high of 104°F, and was their third-lowest June temperature on record.

Farther east, **Daytona Beach, FL** tallied five consecutive triple-digit, daily-record highs (101, 100, 100, 101, and 100°F) from June 2-6. **Daytona Beach's** previous occurrence of 101-degree heat was on June 26, 1950. During the same period, five consecutive records (99, 98, 99, 100, and 101°F) were also set in **Melbourne**. Toward week's end, the combination of heat, gusty winds, and the 3-month dry spell aided the spread of wild fires across central Florida. Meanwhile, a wind shift to the north across southern Texas pushed smoke (from Mexican and Central American fires) completely out of the region for the first time in more than a month.

Williston, ND collected a daily-record low (31°F) on Sunday, but netted a June-record low (26°F) on Thursday. Also on June 4, the low in **Tower, MN** dipped to 24°F. Meanwhile, high temperatures struggled to the lowest June levels on record in locations such as **North Platte, NE** (45°F) and **Goodland, KS**

(45°F). A day earlier in **South Dakota**, **Rapid City's** low of 32°F was 1° shy of their June record, set in 1951. June 2-3 snowfall totaled 3.0 inches in **Rapid City**, their second-latest measurable snowfall (0.5 inches fell on June 13, 1969). With some sleet on June 3, **Sioux Falls, SD** marked their latest frozen precipitation event. In **Wyoming**, June 3-4 snowfall totaled 2.0 inches in **Casper** and 6.8 inches in **Riverton**. By Saturday morning, sub-freezing minima were noted as far south as **North Platte, NE** (30°F) and **Laramie, WY** (29°F). Lows dipped to 33°F in **Hill City, KS** and **Burlington, CO**. Farther east, **Flint, MI** (34°F) registered their third daily-record low in 4 days.

On Saturday, thunderstorms delivered 1.80 inches of rain to **Fresno, CA**, breaking their June rainfall record. **Fresno's** seasonal rainfall reached 20.23 inches, behind only 1982-83 (23.57 inches) and 1968-69 (22.98 inches). Downtown **Sacramento, CA** also received measurable rain on June 6, their 101st such day this rainy season, breaking the record of 100 days set in 1982-83. Farther east, significant rainfall spread from the middle Mississippi Valley into the Southeast on June 4-5. On Thursday, daily-rainfall records were established in **St. Louis, MO** (2.47 inches), **Columbia, MO** (2.42 inches), and **Paducah, KY** (2.16 inches). In **Tennessee**, 24-hour totals on June 4-5 reached 6.55 inches in **Camden** and 5.23 inches in **Nashville**. Meanwhile in **Corpus Christi, TX**, where March 17 - June 6 rainfall totaled 0.06 inches, measurable rain (0.01 inch) fell on June 5 for the first time since April 27.

Earlier in the week, severe weather continued to tear across the Midwest and Northeast. In a 24-hour period on May 31 - June 1, reports of 38 tornadoes and more than 400 occurrences of large hail or wind damage were received from **Indiana** and **Kentucky** to southern New England. And during a severe-weather outbreak on the evening of June 2, **Maryland's** strongest tornado on record (an F4, with estimated maximum winds of 210 mph) swept through **Frostburg**.

El Niño Rapidly Weakens During May

The following status bulletin on the El Niño/Southern Oscillation (ENSO) was issued by the Climate Prediction Center, National Centers for Environmental Prediction, on June 8, 1998.

Strong warm episode (El Niño) conditions in the tropical Pacific weakened rapidly during May 1998. The low-level winds in the equatorial central Pacific returned to near-normal strength during the month, following a prolonged period lasting since April 1997 during which the winds were much weaker than normal. Accompanying this change in the low-level winds, sea surface temperatures decreased rapidly throughout

the equatorial east-central Pacific during May 1998. At the same time, departures from normal also decreased, with negative anomalies appearing between 120° and 150°W by the beginning of June. The NCEP statistical and coupled model predictions are indicating continued cooling and the development of cold-episode conditions (La Niña) later in 1998.

National Weather Data for Selected Cities

Weather Data for the Week Ending June 6, 1998

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7511) and the Southern Regional Climate Center

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN. SINCE Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE		
AL BIRMINGHAM	89	69	95	53	79	5	1.18	0.27	0.80	1.18	157	35.19	132	99	56	4	0	3	1		
HUNTSVILLE	88	69	96	56	78	5	0.85	-0.15	0.51	0.85	100	28.28	95	96	51	3	0	3	1		
MOBILE	91	73	98	65	82	4	1.80	0.42	1.12	1.80	160	40.68	148	98	60	5	0	3	1		
MONTGOMERY	93	72	98	60	82	6	1.38	0.52	0.88	1.38	187	28.42	103	93	50	6	0	3	2		
AK ANCHORAGE	56	48	82	42	51	-1	0.78	0.56	0.39	0.78	411	2.52	65	93	69	0	0	5	0		
BARROW	41	33	49	30	37	7	0.14	0.11	0.05	0.10	500	0.52	69	99	78	0	3	4	0		
FAIRBANKS	67	47	75	42	57	0	0.01	-0.24	0.01	0.01	5	0.51	21	83	31	0	0	1	0		
JUNEAU	65	46	72	43	56	5	-	-	-	-	-	-	-	91	53	0	0	-	-		
KODIAK	53	45	58	42	49	2	-	-	-	-	-	-	-	94	87	0	0	-	-		
NOME	51	38	60	34	45	2	1.18	1.00	0.52	0.86	413	7.84	229	95	63	0	0	5	1		
AZ FLAGSTAFF	69	35	75	28	52	-4	0.09	0.08	0.07	0.09	-	10.20	115	70	17	0	2	2	0		
PHOENIX	96	69	101	64	82	-3	0.00	0.00	0.00	0.00	0	5.06	195	33	12	5	0	0	0		
PRESCOTT	78	47	84	43	63	-1	0.00	-0.01	0.00	0.00	0	7.24	116	56	16	0	0	0	0		
TUCSON	95	80	101	56	77	-3	0.00	0.00	0.00	0.00	0	5.40	197	29	9	6	0	0	0		
YUMA	93	68	98	62	81	-3	0.00	0.00	0.00	0.00	0	1.59	164	50	16	5	0	0	0		
AR FORT SMITH	88	67	97	63	78	4	0.00	-0.96	0.00	0.00	0	19.42	105	95	54	5	0	0	0		
LITTLE ROCK	89	70	98	55	79	4	1.00	0.09	-	1.00	130	21.72	99	88	50	5	0	-	-		
CA BAKERSFIELD	79	53	84	49	66	-9	0.16	0.13	0.16	0.18	800	11.54	308	86	38	0	0	1	0		
EUREKA	83	53	68	46	58	3	0.01	-0.19	0.01	0.01	6	40.43	197	99	80	0	0	1	0		
FRESNO	79	58	85	53	68	-6	1.78	1.75	1.78	1.78	8900	15.82	229	86	37	0	0	1	1		
LOS ANGELES	69	57	70	55	63	-1	0.00	0.00	0.00	0.00	0	23.75	307	95	65	0	0	0	0		
REDDING	78	56	86	50	67	-6	0.84	0.45	0.83	0.84	400	46.17	251	94	46	0	0	2	1		
SACRAM/MCCLELL	77	57	82	54	67	-	0.09	-	0.09	0.09	-	24.02	-	88	45	0	0	1	0		
SAN DIEGO	69	60	69	58	65	-1	0.40	0.37	0.40	0.40	2000	14.37	234	83	57	0	0	1	0		
SAN FRANCISCO	65	55	67	53	60	0	0.00	-0.02	0.00	0.00	0	28.55	236	87	64	0	0	0	0		
CO ALAMOSA	76	38	85	28	56	0	0.34	0.20	0.34	0.34	283	1.48	67	64	12	0	1	1	0		
CO SPRINGS	69	45	91	37	57	-4	0.60	0.10	0.40	0.60	140	5.50	102	78	32	1	0	3	0		
DENVER	68	42	89	34	55	-8	0.18	-0.28	0.10	0.18	46	5.58	82	81	33	0	0	3	0		
GRAND JUNCTION	83	52	93	46	68	-1	0.12	-0.02	0.12	0.12	100	3.37	92	54	18	2	0	1	0		
PUEBLO	75	44	95	39	59	-8	0.33	0.08	0.29	0.33	157	5.26	141	83	29	2	0	3	0		
CT BRIDGEPORT	71	53	77	49	62	-2	1.20	0.37	0.44	0.76	107	27.13	147	81	41	0	0	3	0		
HARTFORD	71	48	82	42	59	-6	0.83	0.00	0.78	0.15	19	22.70	119	84	37	0	0	3	1		
DC WASHINGTON	78	60	89	55	69	-3	0.18	-0.83	0.08	0.18	26	24.22	155	84	40	0	0	4	0		
DE WILMINGTON	76	53	90	49	64	-4	1.00	0.17	0.41	0.61	87	20.29	117	93	38	1	0	5	0		
FL DAYTONA BEACH	99	74	101	70	86	8	0.01	-1.23	0.01	0.00	0	15.85	102	98	40	7	0	1	0		
JACKSONVILLE	96	73	98	68	85	8	0.00	-1.18	0.00	0.00	0	23.10	128	84	41	7	0	0	0		
KEY WEST	89	79	91	76	84	2	0.01	-1.14	0.01	0.00	0	12.29	105	88	64	3	0	1	0		
MIAMI	93	78	94	76	85	5	0.56	-1.56	0.56	0.00	0	17.67	101	90	54	6	0	1	1		
ORLANDO	96	74	98	71	85	5	1.07	-0.37	1.07	0.00	0	20.64	136	99	44	7	0	1	1		
TAMPA	90	79	93	74	84	4	0.00	-1.08	0.00	0.00	0	22.99	174	91	82	3	0	0	0		
VALPARAISO/EGLIN	90	77	95	70	84	6	0.25	-0.76	0.00	0.15	17	25.69	107	92	56	5	0	2	0		
WEST PALM BEACH	93	76	95	74	85	5	1.12	-0.73	1.11	0.01	1	24.54	124	94	51	7	0	2	1		
GA ATHENS	90	67	96	59	79	5	0.48	-0.43	0.41	0.48	62	33.08	140	94	52	4	0	2	0		
ATLANTA	87	67	93	56	77	4	1.37	0.55	1.16	1.34	194	26.93	110	94	57	3	0	4	0		
AUGUSTA	95	68	101	62	81	6	0.52	-0.41	0.47	0.51	64	29.67	142	95	44	6	0	4	0		
COLUMBUS	93	72	98	63	82	5	0.97	0.08	0.72	0.97	128	18.22	75	94	49	5	0	2	1		
MACON	93	68	100	60	81	4	1.23	0.43	0.90	1.22	177	26.21	120	97	47	5	0	3	1		
SAVANNAH	93	72	98	67	83	6	0.39	-0.80	0.39	0.39	38	26.43	141	98	54	5	0	1	0		
HI HILO	80	67	81	64	73	-2	1.48	0.01	0.87	1.26	101	31.87	53	93	65	0	0	7	1		
HONOLULU	85	71	86	69	78	-1	0.05	-0.09	0.03	0.05	36	1.76	16	82	48	0	0	2	0		
KAHULUI	85	65	87	62	75	-2	0.00	-0.08	0.00	0.00	0	2.39	19	88	53	0	0	0	0		
LIHUE	81	72	82	68	76	-1	0.26	-0.22	0.13	0.26	65	7.58	37	88	63	0	0	4	0		
ID BOISE	72	48	80	43	60	-3	0.05	-0.17	0.05	0.05	26	10.38	165	85	32	0	0	1	0		
LEWISTON	74	51	79	47	63	-1	0.10	-0.23	0.10	0.10	36	8.11	136	83	34	0	0	1	0		
POCATELLO	68	41	74	33	54	-5	0.34	0.06	0.16	0.18	75	7.64	127	93	32	0	0	4	0		
IL CHICAGO/O'HARE	69	48	82	42	58	-7	0.12	-0.72	0.10	0.12	16	15.36	116	86	37	0	0	2	0		
MOLINE	69	51	81	44	60	-8	0.31	-0.65	0.16	0.31	37	19.26	130	92	43	0	0	4	0		
PEORIA	70	54	84	49	62	-6	0.44	-0.45	0.28	0.44	58	20.91	148	86	39	0	0	2	0		
ROCKFORD	67	50	78	45	58	-7	0.10	-0.90	0.08	0.10	11	15.54	118	87	40	0	0	2	0		
SPRINGFIELD	73	56	88	49	64	-5	0.85	0.05	0.37	0.85	123	20.34	140	89	43	0	0	3	0		
IN EVANSVILLE	77	61	90	48	69	-3	1.29	0.40	1.20	1.21	161	21.64	108	91	53	1	0	3	1		
FORT WAYNE	74	49	92	39	61	-6	0.17	-0.65	0.12	0.17	24	17.73	125	86	38	2	0	3	0		
INDIANAPOLIS	73	54	88	40	63	-6	0.76	-0.05	0.63	0.75	109	20.94	124	88	46	0	0	3	1		
SOUTH BEND	69	48	84	37	58	-8	0.16	-0.73	0.14	0.16	21	15.88	105	91	47	0	0	2	0		
IA BURLINGTON	74	54	85	49	64	-4	0.76	-0.15	0.37	0.76	96	21.33	160	80	38	0	0	4	0		
CEDAR RAPIDS	66	48	78	44	56	-10	0.81	-0.41	0.29	0.81	69	16.98	140	94	47	0	0	5	0		
DES MOINES	68	49	79	41	59	-10	0.45	-0.55	0.31	0.45	52	13.54	110	92	44	0	0	4	0		

Weather Data for the Week Ending June 6, 1998

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE	01 INCH OR MORE	50 INCH OR MORE
KY WICHITA	79	58	96	46	69	-3	0.01	-1.02	0.01	0.01	1	10.59	94	82	41	3	0	1	0		
KY JACKSON	76	58	85	47	67	-2	1.64	0.66	0.52	1.29	155	28.64	131	93	56	0	0	5	1		
LEXINGTON	76	58	87	48	67	-2	2.69	1.83	2.05	0.64	89	22.99	118	94	57	0	0	4	1		
LOUISVILLE	77	61	90	49	69	-1	1.78	0.92	-	0.86	116	24.88	122	82	53	1	0	-	-		
LA PADUCAH	83	63	96	49	73	0	2.79	1.79	2.16	2.58	304	22.55	99	90	51	3	0	3	1		
LA BATON ROUGE	91	74	97	66	83	4	0.77	-0.20	0.60	0.77	93	30.74	117	97	56	6	0	2	1		
LA LAKE CHARLES	90	76	96	68	83	5	0.92	-0.32	0.53	0.92	88	22.30	104	94	58	6	0	2	1		
LA NEW ORLEANS	92	77	96	71	85	7	1.46	0.22	0.91	1.46	135	35.80	137	94	59	6	0	2	2		
LA SHREVEPORT	94	71	102	63	83	6	1.25	0.15	1.11	1.25	134	19.50	92	90	41	5	0	2	1		
ME CARIBOU	59	38	66	33	48	-9	0.99	0.33	0.43	0.82	146	16.69	130	96	52	0	0	7	0		
ME PORTLAND	65	45	71	40	55	-4	0.89	0.07	0.65	0.24	34	22.21	117	87	40	0	0	3	1		
MD BALTIMORE	79	54	91	50	67	-3	0.25	-0.61	0.12	0.13	18	24.23	141	93	36	1	0	5	0		
MA BOSTON	71	53	79	48	62	-2	1.31	0.57	0.87	0.44	69	25.33	138	77	32	0	0	4	1		
MA WORCESTER	66	46	76	42	56	-5	2.01	1.07	1.11	0.90	111	23.69	117	87	40	0	0	3	2		
MI ALPENA	61	36	68	30	48	-9	0.69	-0.01	0.58	0.11	18	15.56	146	94	44	0	1	2	1		
MI GRAND RAPIDS	67	43	77	39	55	-8	0.51	-0.32	0.51	0.00	0	17.01	130	82	36	0	0	1	1		
MI HOUGHTON LAKE	63	35	68	29	49	-11	0.73	0.04	0.71	0.02	3	10.56	105	90	38	0	2	2	1		
MI LANSING	67	39	77	33	53	-10	0.01	-0.81	0.01	0.01	1	13.67	121	85	40	0	0	1	0		
MI MARQUETTE	51	34	59	29	43	-13	1.49	0.69	-	1.16	171	13.19	101	89	46	0	2	-	-		
MI MUSKEGON	64	43	79	39	54	-8	0.07	-0.50	0.07	0.07	14	12.08	98	89	42	0	0	1	0		
MN DULUTH	58	38	73	33	48	-8	1.53	0.68	1.33	1.53	207	11.47	115	92	44	0	0	2	1		
MN INTL FALLS	53	39	59	32	46	-12	0.23	-0.59	0.15	0.23	32	7.77	106	91	43	0	1	4	0		
MN MINNEAPOLIS	64	44	71	38	54	-11	0.00	-0.92	0.00	0.00	0	12.97	125	80	42	0	0	0	0		
MN ROCHESTER	61	45	70	41	53	-10	0.33	-0.49	0.21	0.32	45	12.03	119	87	45	0	0	3	0		
MN ST. CLOUD	62	41	75	36	52	-10	0.02	-1.01	0.02	0.02	2	8.16	89	89	42	0	0	1	0		
MS JACKSON	90	71	97	57	81	4	1.62	0.80	1.51	1.62	235	27.97	103	92	54	5	0	3	1		
MS MERIDIAN	91	68	98	55	79	4	2.86	2.04	2.78	2.86	409	31.39	112	97	52	6	0	3	1		
MS TUPELO	88	69	95	55	78	4	1.04	0.02	0.65	1.03	121	26.06	95	93	54	4	0	4	1		
MO COLUMBIA	75	56	92	47	66	-3	2.51	1.42	2.42	2.50	269	19.37	119	92	51	2	0	3	1		
MO KANSAS CITY	76	55	89	44	66	-4	0.16	-1.00	0.16	0.16	18	9.54	69	79	43	0	0	1	0		
MO SAINT LOUIS	75	60	91	48	67	-5	2.57	1.69	2.46	2.56	337	22.62	144	86	45	2	0	4	1		
MO SPRINGFIELD	90	58	91	44	69	-1	0.38	-0.83	0.36	0.38	36	20.30	116	97	60	1	0	2	0		
MT BILLINGS	63	42	77	36	53	-8	0.28	-0.28	0.14	0.28	58	5.00	66	87	34	0	0	5	0		
MT BUTTE	59	36	69	28	48	-4	0.39	-0.13	0.23	0.36	80	7.02	142	89	34	0	2	6	0		
MT GLASGOW	65	39	79	32	52	-9	0.08	-0.46	0.05	0.08	19	3.66	92	79	26	0	1	3	0		
MT GREAT FALLS	62	40	69	32	51	-7	0.76	0.13	0.65	0.76	141	6.61	94	88	39	0	0	2	1		
MT KALISPELL	67	43	71	35	55	0	0.42	-0.12	0.22	0.42	89	9.39	133	89	36	0	0	2	1		
MT MILES CITY	66	43	77	39	55	-8	0.01	-0.65	0.01	0.01	2	3.25	56	81	28	0	0	1	0		
MT MISSOULA	68	44	73	34	56	0	0.09	-0.37	0.06	0.08	20	8.31	135	80	36	0	0	3	0		
NE GRAND ISLAND	69	46	90	41	59	-9	0.58	-0.38	0.36	0.58	70	13.08	128	92	42	1	0	4	0		
NE LINCOLN	72	50	91	43	61	-8	0.14	-0.81	0.09	0.14	17	12.96	120	91	42	1	0	4	0		
NE NORFOLK	68	47	89	41	58	-9	1.07	0.03	0.60	1.07	119	10.41	104	91	43	0	0	3	1		
NE NORTH PLATTE	66	42	83	30	54	-10	0.18	-0.62	0.12	0.18	26	5.76	71	95	45	0	1	3	0		
NE OMAHA	71	50	87	41	61	-8	0.82	-0.18	-	0.82	96	14.58	126	93	46	0	0	-	-		
NE SCOTTSBLUFF	66	40	87	33	53	-10	0.20	-0.46	0.13	0.20	35	5.33	77	88	30	0	0	3	0		
NE VALENTINE	63	43	82	36	53	-11	0.59	-0.11	0.53	0.59	100	6.17	87	94	44	0	0	3	1		
NV ELY	69	37	78	30	53	-2	0.41	0.17	0.31	0.41	205	5.86	121	76	19	0	2	4	0		
NV LAS VEGAS	88	65	96	60	77	-4	0.00	-0.03	0.00	0.00	0	4.35	234	45	18	4	0	0	0		
NV RENO	72	46	82	42	59	-2	0.74	0.80	0.55	0.74	617	8.05	202	78	30	0	0	5	1		
NV WINNEMUCCA	72	42	81	36	57	-4	0.46	0.24	0.29	0.46	242	9.81	243	90	31	0	0	3	0		
NH CONCORD	68	43	73	37	55	-8	0.48	-0.26	0.30	0.18	28	16.16	112	82	29	0	0	4	0		
NJ NEWARK	75	56	90	51	65	-4	0.87	0.10	0.52	0.35	54	26.89	142	74	34	1	0	2	1		
NM ALBUQUERQUE	88	58	96	51	73	2	0.00	-0.11	0.00	0.00	0	3.78	150	30	9	3	0	0	0		
NY ALBANY	68	46	81	41	57	-6	0.67	-0.18	0.35	0.38	49	18.98	129	86	38	0	0	3	0		
NY BINGHAMTON	64	44	81	38	54	-7	1.54	0.72	1.22	0.32	46	21.60	147	92	50	0	0	2	1		
NY BUFFALO	64	45	78	42	55	-8	1.76	0.94	1.17	0.59	83	18.61	129	82	44	0	0	2	2		
NY ROCHESTER	67	43	80	38	55	-7	0.69	0.00	0.61	0.08	13	15.99	129	88	42	0	0	2	1		
NY SYRACUSE	66	45	84	42	55	-7	0.46	-0.37	0.36	0.10	14	15.52	106	88	43	0	0	2	0		
NC ASHEVILLE	83	59	91	51	71	4	2.04	1.04	1.01	2.04	240	33.01	162	100	51	1	0	5	1		
NC CHARLOTTE	89	69	98	62	79	6	0.97	0.16	0.40	0.97	141	21.26	111	91	50	2	0	4	0		
NC GREENSBORO	82	62	92	53	72	1	0.92	0.03	0.39	0.91	120	26.37	148	91	56	1	0	5	0		
NC HATTERAS	79	67	83	62	73	2	1.26	0.32	0.78	1.26	158	31.30	142	94	54	0	0	4	1		
NC RALEIGH	84	64	95	58	74	2	1.67	0.78	0.96	1.67	223	29.17	160	96	56	1	0	4	2		
NC WILMINGTON	89	72	97	66	80	6	0.44	-0.76	0.19	0.44	43	31.34	158	93	55	3	0	4	0		
ND BISMARCK	65	40	84	32	53	-8	0.07	-0.54	0.03	0.07	13	3.98	66	88	37	0	2	3	0		
ND DICKINSON	63	38	78	31	50	-10	0.01	-0.74	0.01	0.01	2	5.63	86	89	36	0	2	1	0		
ND FARGO	62	41	82	36	52	-10	0.21	-0.42	0.16	0.18	33	11.41	163	85	40	0	0	4	0		
ND GRAND FORKS	61	39	75	34	50	-11	0.09	-0.52	0.09	0.09	17	5.44	90	84	36	0	0	1	0		
ND JAMESTOWN	61	38	82	35	50	-12	0.16	-0.46	0.08	0.16	30	6.43	109	93	40	0	0	3	0		
ND WILLISTON	65	37	78	26	51	-10	0.19	-0.33	0.14	0.19	42	3.71	69	91	32	0	4	3	0		
OH AKRON-CANTON	69	47	82	39	58	-7	0.34	-0.41	0.12	0.26	41	17.69	116	88	43	0	0	5	0		
OH CINCINNATI	73	54	87	41	63	-5	0.73	-0.18	0.39	0.72	92	25.43	139	96	54	0	0	4	0		
OH CLEVELAND	69	50	84	40	59	-5	1.13	0.28	1.02	0.11	15	17.15	118	95	49	0	0	3	1		
OH COLUMBUS	73	55	88	47	64	-2	1.11	-0.83	0.08	0.10	12	16.37	105	83	39	0	0	4	0		
OH DAYTON	71	51	87	41	61	-6	0.29	-0.82	0.12	0.29	37	19.17	121	87	46	0	0	4	0		
OH MANSFIELD	69	48	84	41	58	-6	0.39	-0.56	0.20	0.35	43	14.54	90	93	42	0	0	4	0		

Based on 1961-90 normals

Weather Data for the Week Ending June 6, 1998

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	80 AND ABOVE	82 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE	01 INCH OR MORE	50 INCH OR MORE
TOLEDO	72	47	89	38	58	-5	0.08	-0.78	0.03	0.03	4	16.69	131	82	37	0	0	2	0		
OK																					
YOUNGSTOWN	69	45	83	39	57	-8	0.32	-0.56	0.26	0.07	9	18.87	129	91	43	0	0	3	0		
OKLAHOMA CITY	88	65	105	50	78	3	0.00	-1.17	0.00	0.00	0	16.11	112	75	38	4	0	0	0		
TULSA	84	63	98	50	74	-1	0.01	-1.19	0.01	0.01	1	18.13	106	87	45	4	0	1	0		
OR																					
ASTORIA	62	51	67	45	57	1	0.01	-0.83	0.01	0.01	2	43.21	132	96	71	0	0	1	0		
BURNS	68	39	76	35	53	-1	0.06	-0.16	0.05	0.06	28	10.50	230	94	32	0	0	2	0		
EUGENE	72	47	77	42	60	0	0.00	-0.42	0.00	0.00	0	27.03	109	89	48	0	0	0	0		
MEDFORD	82	50	86	48	66	3	0.00	-0.18	0.00	0.00	0	17.29	197	90	27	0	0	0	0		
PENDLETON	77	49	83	45	63	1	0.48	0.29	0.44	0.48	300	8.08	134	85	28	0	0	2	0		
PORTLAND	73	54	81	49	64	3	0.00	-0.42	0.00	0.00	0	22.69	129	91	43	0	0	0	0		
SALEM	73	50	80	46	61	3	0.00	-0.38	0.00	0.00	0	27.38	142	94	49	0	0	0	0		
PA																					
ALLENTOWN	76	51	91	44	63	-3	0.29	-0.61	0.28	0.01	1	20.94	117	82	35	1	0	2	0		
ERIE	67	48	82	41	58	-5	0.84	-0.08	0.64	0.20	25	17.35	116	84	46	0	0	2	1		
MIDDLETOWN	77	55	91	50	66	-2	0.66	-0.29	0.32	0.35	43	25.79	148	84	35	1	0	3	0		
PHILADELPHIA	75	58	89	54	67	-2	0.62	-0.23	0.45	0.17	23	18.17	103	81	35	0	0	3	0		
PITTSBURGH	69	50	85	43	60	-5	0.73	-0.12	0.59	0.14	19	15.63	99	90	44	0	0	4	1		
SCRANTON	68	48	85	43	58	-8	1.57	0.66	1.43	0.18	23	18.38	129	86	40	0	0	2	1		
WILLIAMSPORT	73	48	87	44	61	-4	0.45	-0.53	0.44	0.01	1	25.47	155	88	34	0	0	2	0		
RI																					
PROVIDENCE	71	51	77	46	61	-2	1.30	0.49	0.77	0.53	78	29.75	148	81	34	0	0	4	1		
SC																					
BEAUFORT	93	73	99	69	83	6	0.33	-0.94	0.21	0.33	30	28.83	152	93	54	6	0	3	0		
CHARLESTON	92	73	98	71	83	7	0.15	-1.16	0.09	0.14	12	32.04	170	89	51	4	0	5	0		
COLUMBIA	93	70	98	66	82	6	1.20	0.19	0.41	1.20	136	26.95	127	92	47	5	0	4	0		
GREENVILLE	88	66	95	61	77	4	1.71	0.61	0.80	1.71	182	30.64	132	95	50	2	0	5	1		
SD																					
ABERDEEN	64	44	82	37	54	-9	0.02	-0.67	0.01	0.02	3	9.05	127	90	41	0	0	2	0		
HURON	66	46	81	42	58	-8	0.15	-0.62	0.12	0.15	22	9.53	114	90	42	0	0	3	0		
RAPID CITY	61	40	80	32	51	-10	1.17	0.44	0.58	1.17	186	5.77	81	88	43	0	1	4	1		
SIoux FALLS	64	43	76	37	54	-11	0.78	-0.01	0.28	0.78	113	11.54	128	97	49	0	0	5	0		
TN																					
BRISTOL	79	59	86	45	69	0	1.93	1.12	1.05	1.78	258	24.86	137	99	64	0	0	5	2		
CHATTANOOGA	89	67	97	55	78	5	2.82	1.99	2.44	2.82	403	31.85	127	94	46	3	0	4	1		
KNOXVILLE	83	65	90	50	74	4	5.16	4.26	2.87	5.16	662	32.14	146	95	56	2	0	5	3		
MEMPHIS	89	71	96	57	80	4	1.11	0.19	1.05	1.11	142	29.47	119	88	52	5	0	2	1		
NASHVILLE	84	66	94	55	75	2	6.98	6.06	3.42	6.70	859	28.10	126	95	52	3	0	4	3		
TX																					
ABILENE	94	69	106	53	82	4	0.00	-0.72	0.00	0.00	0	6.11	68	73	30	5	0	0	0		
AMARILLO	87	54	104	41	71	0	0.00	-0.83	0.00	0.00	0	6.72	107	72	20	3	0	0	0		
AUSTIN	96	73	99	64	84	5	0.31	-0.73	0.31	0.31	35	10.82	77	90	41	6	0	1	0		
BEAUMONT	91	75	96	70	83	4	0.08	-1.27	0.05	0.08	7	21.16	97	95	59	6	0	2	0		
BROWNSVILLE	83	78	95	74	85	3	0.00	-0.70	0.00	0.00	0	2.78	33	94	58	6	0	0	0		
CORPUS CHRISTI	91	74	94	69	83	2	0.02	-0.83	0.01	0.01	1	6.25	80	94	61	6	0	2	0		
DEL RIO	103	76	106	70	90	9	0.00	-0.49	0.00	0.00	0	1.54	23	74	18	7	0	0	0		
EL PASO	95	66	102	59	81	3	0.00	-0.09	0.00	0.00	0	0.42	25	32	15	4	0	0	0		
FORT WORTH	93	71	101	58	82	4	0.65	-0.23	0.62	0.65	88	17.02	107	80	40	5	0	2	1		
GALVESTON	86	77	89	71	81	2	1.37	0.37	-	1.37	159	14.10	96	94	74	0	0	2	1		
HOUSTON	93	74	98	68	83	5	0.96	-0.30	0.96	0.96	90	14.82	79	94	53	6	0	1	1		
LUBBOCK	95	61	107	48	78	4	0.00	-0.64	0.00	0.00	0	3.63	63	65	16	5	0	0	0		
MIDLAND	99	68	111	55	83	6	0.00	-0.40	0.00	0.00	0	1.18	25	53	16	5	0	0	0		
SAN ANGELO	97	69	106	56	83	5	0.03	-0.64	0.03	0.03	5	4.87	61	80	20	5	0	1	0		
SAN ANTONIO	98	72	99	64	84	4	0.00	-1.00	0.00	0.00	0	9.84	78	88	34	7	0	0	0		
VICTORIA	93	73	97	68	83	3	0.00	-1.19	0.00	0.00	0	7.84	57	94	51	6	0	0	0		
WACO	94	70	100	58	82	3	1.03	0.10	0.75	1.03	130	15.03	103	96	44	5	0	2	1		
WICHITA FALLS	97	66	110	53	81	5	0.00	-0.95	0.00	0.00	0	10.42	83	68	22	5	0	0	0		
UT																					
SALT LAKE CITY	73	50	86	46	61	-3	0.66	0.38	0.44	0.66	275	13.26	157	81	31	0	0	3	0		
VT																					
BURLINGTON	65	47	73	41	56	-6	2.35	1.57	1.38	0.97	145	17.17	141	84	42	0	0	4	2		
VA																					
LYNCHBURG	79	59	89	56	69	0	0.21	-0.61	0.00	0.20	29	29.44	173	95	63	0	0	4	0		
NORFOLK	80	65	91	61	73	1	0.05	-0.81	0.05	0.05	7	26.72	144	89	48	2	0	1	0		
RICHMOND	81	60	91	56	71	-1	0.08	-0.73	0.08	0.08	12	27.47	157	87	45	1	0	1	0		
ROANOKE	79	58	88	49	69	0	0.44	-0.35	0.28	0.44	66	30.65	180	87	52	0	0	4	0		
WA																					
WASH/DULLES	77	54	89	49	66	-2	0.35	-0.60	0.24	0.35	43	24.63	148	95	43	0	0	4	0		
HANFORD	82	58	89	54	70	-	0.00	-0.14	0.00	0.00	0	3.48	119	70	21	0	0	0	0		
OLYMPIA	70	47	78	42	59	2	0.01	-0.43	0.01	0.01	3	25.94	106	99	52	0	0	1	0		
QUILLAYUTE	61	50	64	40	56	2	0.07	-0.83	0.03	0.07	9	44.71	86	97	72	0	0	3	0		
SEATTLE-TACOMA	68	51	75	48	60	1	0.30	-0.08	0.30	0.30	91	17.70	102	96	55	0	0	1	0		
SPOKANE	71	48	76	44	60	1	0.28	-0.06	0.16	0.28	100	9.12	116	81	30	0	0	2	0		
YAKIMA	79	48	84	43	64	2	0.03	-0.11	0.03	0.03	25	6.19	168	87	33	0	0	1	0		
WV																					
BECKLEY	72	52	81	43	62	-2	1.25	0.39	0.59	1.22	167	26.89	155	99	96	0	0	7	1		
CHARLESTON	74	57	85	49	65	-3	1.58	0.77	1.30	1.58	229	22.69	130	99	81	0	0	5	1		
ELKINS	69	50	83	47	60	-2	0.37	-0.64	0.19	0.33	38	19.54	104	99	57	0	0	5	0		
HUNTINGTON	75	57	85	47	66	-2	0.47	-0.36	0.26	0.44	63	22.07	124	97	58	0	0	5	0		
WI																					
EAU CLAIRE	64	43	74	37	53	-10	0.03	-0.94	0.03	0.00	0	15.15	139	84	38	0	0	1	0		
GREEN BAY	64	44	70	37	54	-7	0.71	-0.05	0.71	0.00	0	10.73	106	90	44	0	0	1	1		

May Weather and Crop Summary

Weather

A late-spring heat wave developed across Texas early in the month, expanding to encompass areas from New Mexico to the Southern Atlantic States by month's end. In addition to the heat, which pushed monthly temperatures 2 to 6°F above normal, a dry spell across the region stretched to 10 weeks by the end of May, stressing dryland crops. Smoke from Mexican and Central American wildfires also cloaked the region, particularly before mid-month in southern Texas, where visibilities were locally reduced to less than 1 mile. Similar temperature departures (generally +2 to +6°F) were noted in other areas east of the Rockies, but warmth in many locations was accompanied by abundant rainfall. In contrast, exceptionally cool weather (as much as 10°F below normal) gripped California, including the San Joaquin and Sacramento Valleys, hindering planting and crop development.

Monthly rainfall was less than 25 percent of normal from the southern Rockies to northern Florida and southern Georgia. Several locations in Texas and Louisiana reported record-low May totals:

Record-Low May Rainfall (Inches)

Location	Total	Previous Record/Year
Corpus Christi, TX	0.00	trace in 1961
Laredo, TX	0.00	0.00 in 1945
Brownsville, TX	trace	trace in 1899 and 1978
Victoria, TX	trace	0.11 in 1913
Midland, TX	0.02	0.06 in 1945
Beaumont, TX	0.08	0.10 in 1978
New Orleans, LA	0.43*	0.95 in 1992

* Prior to airport records, when observations were taken downtown, only 0.02 inches fell in May 1898.

Except for scattered late-month thunderstorms, several other locations would have set rainfall records. May 26-27 rainfall accounted for the month's only measurable rainfall in the Texas cities of San Angelo (1.75 inches), Austin (0.73 inches), and San Antonio (0.34 inches). San Angelo's rain ended a 59-day dry spell, their longest such spring-season streak on record. All of New Orleans' rain fell on May 29. Monthly totals in Florida were as low as 0.16 inches (5 percent of normal) in Daytona Beach and 0.54 inches (11 percent) in Tallahassee. The mercury reached or exceeded 90°F on 21 days during the month in Tallahassee, tying their May record set in 1962.

The region's dry spell began to develop in mid-March, allowing rainfall deficits to accumulate for 10 weeks by the end of May. April-May rainfall was also the lowest on record in several cities, including:

Record-Low April-May Rainfall (Inches)

Location	Total	Previous Record/Year
Midland, TX	0.02	0.08 in 1945
San Antonio, TX	0.39	0.49 in 1961
Shreveport, LA	0.94	2.21 in 1925

In contrast, monthly rainfall topped 200 percent of normal in a broad belt from California to the northern Rockies. Totals exceeded 800 percent of normal in parts of California. A vast array of stations across California and the interior Northwest established May rainfall records, including:

Record-High May Rainfall (Inches)

Location	Total	Previous Record/Year
Potlatch, ID	7.25	5.67 in 1948
Priest River, ID	7.13	6.24 in 1941
Colville, WA	7.05	5.48 in 1942
Sandpoint, ID	6.80	6.13 in 1941
Porthill, ID	6.63	4.34 in 1961
Cabinet Gorge, ID	6.56	5.24 in 1957
Northport, WA	6.48	4.92 in 1942
Boundary Dam, WA	6.40	5.37 in 1996
Republic, WA	6.26	6.07 in 1990
Portland, OR	5.55*	4.88 in 1996
Salem, OR	5.55*	4.58 in 1942
Asotin, WA	4.93	3.96 in 1991
Boise, ID	4.40*	4.07 in N/A
Bonnors Ferry, ID	4.71	4.70 in 1996
Lewiston, ID	3.78	3.74 in 1991
Richmond, CA	3.75	3.38 in 1996
Stockton, CA	3.74	2.77 in 1915
Moffett Field, CA	3.71	1.70 in N/A
Leavenworth	3.67	2.98 in 1951
Winnemucca, NV	3.57	3.38 in 1987
Plain, WA	3.52	2.03 in 1990
Mazama, WA	3.16	2.47 in 1951
Oakland, CA	3.05	2.92 in 1974
Chelan, WA	2.85	2.51 in 1991
Pomeroy, WA	2.82	2.59 in 1980
Redwood City, CA	2.76	2.76 in 1957
Entiat, WA	2.42	2.40 in 1990
Salinas, CA	2.39	2.32 in 1957
King City, CA	2.11	1.19 in 1955

* Prior to airport records, when observations were taken downtown, 6.60 inches fell at Portland in May 1879, 6.23 inches fell at Salem in May 1895, and 4.90 inches fell at Boise in May 1896.

The Northwestern wetness culminated with a barrage of rain on May 27-28. On the 27th, single-day rainfall records for May were broken in Sandpoint, ID (2.95 inches) and at Boundary Dam, WA (2.02 inches). A day later, 1.88 inches pelted Red Bluff, CA.

According to California's Department of Water Resources, the water equivalent of the Sierra Nevada snow pack stood at an astounding 32 inches on May 31, 321 percent of normal for the date. In the Sierra Nevada foothills, May precipitation totaled 9.74 inches at Blue Canyon, and in southern California, Mt. Wilson netted 10.84 inches.

The month began with several daily-record highs across the Northwest, including maxima of 85°F in Olympia, WA and 87°F in Lewiston, ID on May 1. Consistently cool air plagued California and eventually overspread the Northwest. On May 26, Lewiston's high reached only 48°F. For the month, the average temperature of 61.0°F in Bakersfield, CA broke their May record of 61.7°F, set in 1911. Also in California, Fresno's average maximum temperature of 72.5°F shattered their former record of 74.8°F, set in 1953. May maxima were the lowest on record for Bakersfield (84°F on the 31st) and Fresno (85°F on the 31st). The only other years May maxima failed to reach 90°F in those two cities were 1917 and 1961.

In sharp contrast, a nearly unbroken string of hot days across the South Central States boosted average temperatures to May-record levels in several locations, including:

Highest May Average Temperature (°F)

Location	Average	Previous Record/Year
Del Rio, TX	84.2	not available
Abilene, TX	79.2	78.8 in 1896
New Orleans, LA	78.8	78.3 in 1955
Little Rock, AR	76.2	75.8 in 1987

On the last day of the month, high-temperature records for May were established in Monroe, LA (104°F), Shreveport, LA (102°F), and Tyler, TX (100°F). Monroe's May record was shattered by 5°F, and Shreveport's record had stood since May 31, 1886. Earlier in the month, Austin, TX notched 102°F on May 7, only 3 days later than their earliest triple-digit heat on record (May 4, 1984). Amarillo, TX recorded 101°F on May 29, their first 100-degree reading since July 7, 1996. For the first time on record Dallas-Ft. Worth tallied 3 days of 100-degree heat during May. In southern Texas, Laredo's high temperatures averaged 102.2°F, 9.7° above normal, despite persistent smoke and haze from Mexican and Central American wild fires that often reduced visibilities in the region to as little as 1 to 3 miles. In contrast, Phoenix, AZ escaped the January-May period without triple-digit heat for the first time since 1971.

May started on a very wet note across the Northeast. Williamsport, PA notched 13 consecutive days with measurable rain (April 30 to May 12), breaking their all-time record set in May 1960. Measurable rain also fell in Baltimore, MD on the first 12 days of the month. In Hartford, CT, rainfall totaled 6.48 inches during the first 11 days of the month, but only 1.35 inches thereafter. Similarly, only 0.17 inches fell in Washington, DC after May 12, lifting their monthly total to 4.06 inches. Late in the month, a small, slow-moving thunderstorm complex cross the Arklatex region, dumping torrential rainfall. On May 28, 10.48 inches inundated Texarkana, AR, shattering their single-day rainfall record.

In Indianapolis, IN, rain fell on 18 days during the month, totaling 6.13 inches. That precipitation was part of a pattern that deposited

beneficial rainfall across most of the Corn Belt, with unfavorably dry weather confined to areas to the northeast or southwest. Pockets of dryness persisted on the northern Plains, however, as monthly rainfall was well below normal in locations such as Miles City, MT (0.81 inches; 36 percent of normal) and Bismarck, ND (1.10 inches; 50 percent)

Monthly temperatures averaged slightly above normal in Alaska, continuing a 4-month trend. Very wet weather prevailed in western and southern parts of the State for the third consecutive month. Nome's 2.78-inch total broke their record of 2.53 inches, set in 1916. Through May 31, year-to-date rainfall in Kodiak stood at 48.14 inches, 178 percent of normal.

In Hawaii, drought continued in some areas despite significant improvement in others. On the island of Hawaii, Hilo netted 15.65 inches (158 percent of normal), boosting their 7-month (November-May) rainfall to 47.52 inches (55 percent of normal). On Oahu, however, Honolulu's 7-month total stood at 2.99 inches (17 percent of normal).

Fieldwork

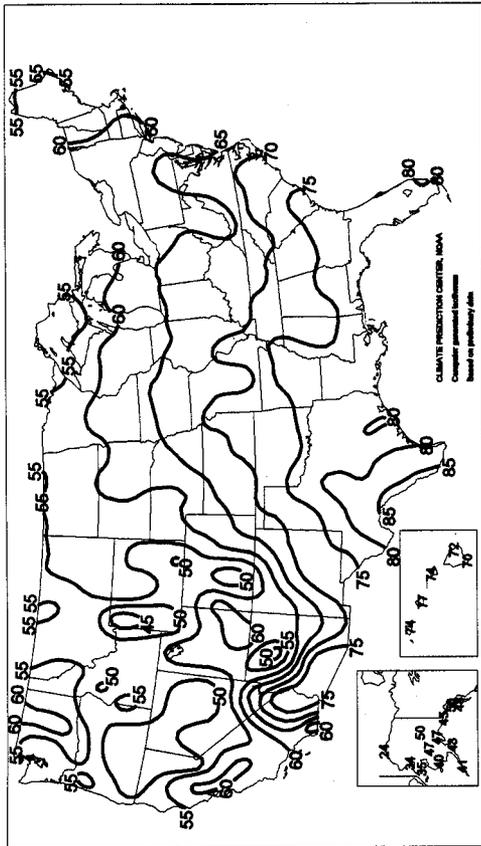
As the month began, dry weather settled into the western Corn Belt, allowing planting activity to accelerate to a near-record pace. Farmers in the central and northern Great Plains also made rapid progress planting corn and small grains. Frequent rains in the eastern Corn Belt limited planting progress until mid-month. As farmers finished planting corn, they immediately began planting soybeans, which also progressed well ahead of the normal pace in the western Corn Belt. Crop emergence and development were aided by above-normal temperatures and timely showers. Some isolated crop damage was caused by hail, high winds, and soil erosion that occurred during heavy downpours.

The winter wheat crop was very good and developing ahead of normal as the month began. In the southern Great Plains, hot weather caused the crop to rapidly mature, but also caused conditions to steadily decline as the month progressed, especially in Texas. From the central Great Plains northward, above-normal temperatures combined with timely rains kept development well ahead of normal, and conditions remained mostly good. Warm weather also promoted rapid growth in the eastern Corn Belt, but crop conditions declined slightly due to diseases caused by excessive rainfall early in the month. In Montana, excessively dry weather for most of the month caused conditions to decline.

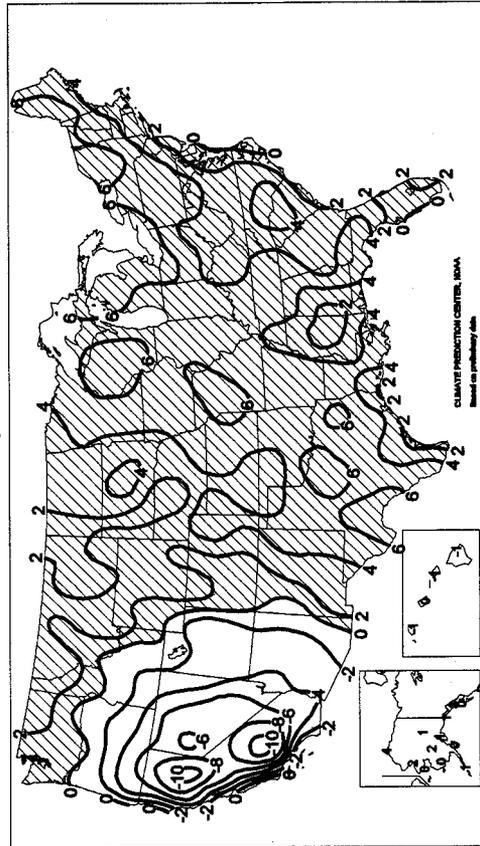
Unlike the in East, the Southwestern States recorded below-normal temperatures during most of the month, slowing many field operations. In California, farmers struggled to plant cotton and rice during brief dry periods. By month's end, most of the cotton was planted in the Southwest despite the poor planting weather. However, emergence was slow due to cool soils and crusting that occurred after frequent rains.

Cotton planting in the Mississippi Delta and Southeastern States was delayed by rains early in the month. Drier weather allowed progress to accelerate near mid-month, with many areas moving ahead of the 5-year average. Nationally, the crop was rated mostly good as the month ended, but hot, dry weather in Texas and cool, wet weather in California were detrimental to conditions in those States.

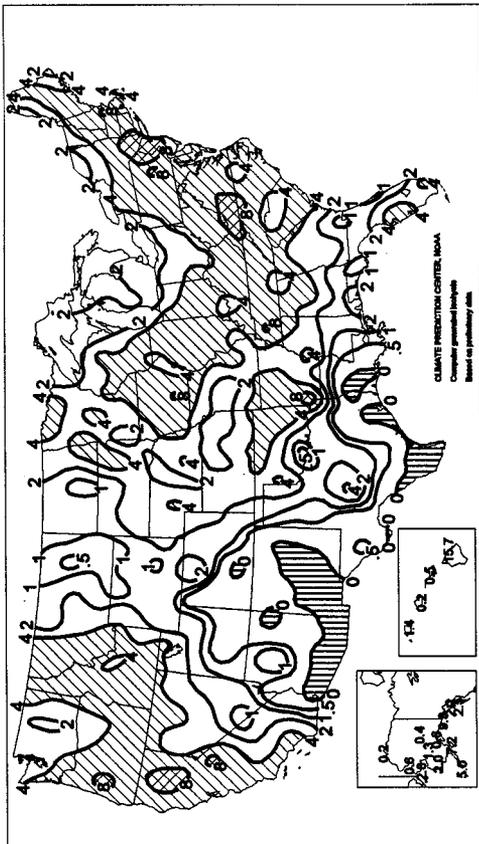
Average Temperature (°F)
May 1998



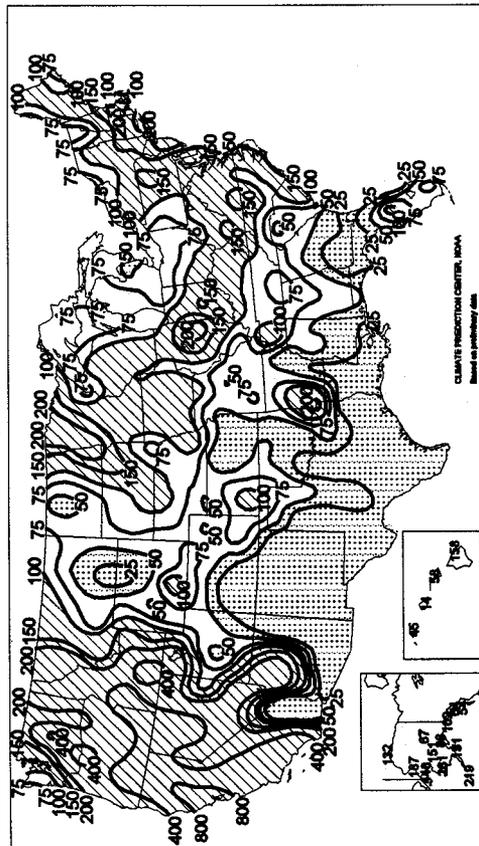
Departure of Average Temperature from Normal (°F)
May 1998



Total Precipitation (inches)
May 1998



Percent of Normal Precipitation
May 1998



TEMPERATURE AND PRECIPITATION SUMMARY

May 1998

STATES AND STATIONS	TEMP. °F		PRECIP.		STATES AND STATIONS	TEMP. °F		PRECIP.		STATES AND STATIONS	TEMP. °F		PRECIP.	
	AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE		AVERAGE	DEPARTURE	TOTAL	DEPARTURE
AL BIRMINGHAM	73	4	4.00	-0.85	ME CARIBOU	56	5	3.61	0.54	RI SCRANTON	63	4	4.38	0.73
AL HUNTSVILLE	73	4	2.91	-2.17	ME PORTLAND	57	3	3.83	0.21	RI WILLIAMSPORT	64	5	6.21	2.35
AL MOBILE	78	2	1.78	-3.98	MD BALTIMORE	66	3	3.48	-0.28	RI PROVIDENCE	61	4	6.05	2.29
AL MONTGOMERY	75	3	3.09	-0.83	MA BOSTON	60	2	6.85	3.80	SC BEAUFORT	78	3	2.63	-1.31
AK ANCHORAGE	47	1	0.83	-0.10	MA WORCESTER	60	4	5.91	1.58	SC CHARLESTON	75	2	4.63	0.62
AK BARROW	24	4	0.21	0.09	MI ALPENA	58	6	2.36	-0.38	SC COLUMBIA	75	4	2.22	-1.46
AK FAIRBANKS	50	2	0.41	-0.20	MI GRAND RAPIDS	64	7	1.86	-1.27	SC GREENVILLE	71	3	1.77	-2.65
AK JUNEAU	51	4	2.19	-1.23	MI HOUGHTON LAKE	60	6	2.31	-0.26	SD ABERDEEN	60	3	4.29	1.88
AK KODIAK	44	0	7.24	1.72	MI LANSING	63	6	1.58	-1.03	SD HURON	62	4	4.06	1.19
AK NOME	38	0	2.78	2.18	MI MARQUETTE	55	5	1.93	-1.10	SD RAPID CITY	57	1	2.34	-0.34
AZ FLAGSTAFF	47	-3	1.31	0.59	MI MUSKEGON	62	6	1.89	-0.71	SD SIOUX FALLS	62	3	1.92	-1.11
AZ PHOENIX	78	-3	0.04	-0.08	MN DULUTH	56	5	1.90	-1.13	TN BRISTOL	66	3	4.94	1.09
AZ PRESCOTT	57	-1	0.96	0.41	MN INT'L FALLS	56	4	4.96	2.49	TN CHATTANOOGA	72	5	1.41	-2.97
AZ TUCSON	73	-1	T	-0.19	MN MINNEAPOLIS	63	5	4.40	1.01	TN KNOXVILLE	71	5	3.84	-0.27
AZ YUMA	76	-3	0.01	-0.02	NY ROCHESTER	63	6	3.39	-0.01	TX MEMPHIS	75	4	1.71	-3.27
AR FORT SMITH	74	4	2.82	-2.62	NY ST. CLOUD	62	6	3.67	0.51	TX NASHVILLE	71	4	4.16	-0.72
AR LITTLE ROCK	78	6	3.19	-2.05	MS JACKSON	74	2	1.47	-3.58	TX ABILENE	79	6	0.72	-2.25
CA BAKERSFIELD	61	-10	1.33	1.13	MS MERIDIAN	73	2	1.10	-3.32	TX AMARILLO	69	4	0.53	-1.95
CA EUREKA	54	1	3.12	1.68	MO TUPELO	73	3	1.91	-3.82	TX AUSTIN	80	4	0.73	-4.05
CA FRESNO	62	-7	1.37	1.07	MO COLUMBIA	70	6	1.44	-3.57	TX BEAUMONT	78	2	0.08	-5.63
CA LOS ANGELES	61	-2	2.45	2.31	MO KANSAS CITY	71	7	1.75	-3.29	TX BROWNSVILLE	81	2	T	-2.94
CA REDDING	57	-9	7.67	6.40	MO SAINT LOUIS	71	5	3.82	-0.35	TX CORPUS CHRISTI	79	2	0.00	-3.33
CA SACRAM/MCCLELL	62	-	1.34	-	MO SPRINGFIELD	70	5	3.85	-0.53	TX DEL RIO	84	7	0.08	-1.95
CA SAN DIEGO	83	-1	0.84	0.45	MT BILLINGS	57	2	0.91	-1.67	TX EL PASO	74	3	T	-0.25
CA SAN FRANCISCO	58	0	2.37	2.18	MT BUTTE	50	3	2.89	0.83	TX FORT WORTH	78	6	2.38	-2.50
CO ALAMOSA	51	1	0.01	-0.63	MT GLASGOW	58	3	1.02	-0.75	TX GALVESTON	78	2	0.02	-3.57
CO CO SPRINGS	59	4	0.72	-1.43	MT GREAT FALLS	54	1	3.12	0.80	TX HOUSTON	79	4	0.04	-5.20
CO DENVER	59	3	1.73	-0.89	MT KALISPELL	55	3	4.25	2.38	TX LUBBOCK	74	5	0.04	-2.31
CO GRAND JUNCTION	62	0	0.21	-0.86	MT MILES CITY	60	3	0.81	-1.46	TX MIDLAND	79	6	0.02	-1.96
CO PUEBLO	61	0	1.04	-0.21	MT MISSOULA	56	4	3.79	2.01	TX SAN ANGELO	80	6	1.75	-1.25
CT BRIDGEPORT	61	2	7.36	3.43	NE GRAND ISLAND	65	4	4.48	0.66	TX SAN ANTONIO	80	4	0.34	-3.88
CT HARTFORD	63	3	7.83	3.71	NE LINCOLN	66	4	5.50	1.80	TX VICTORIA	79	2	0.01	-4.49
DC WASHINGTON	67	1	4.06	0.40	NE NORFOLK	64	4	2.48	-1.20	TX WACO	79	4	0.55	-4.04
DE WILMINGTON	65	3	4.13	0.29	NE NORTH PLATTE	60	2	2.93	-0.50	UT WICHITA FALLS	77	5	0.19	-3.88
FL DAYTONA BEACH	78	2	0.16	-3.29	NE OMAHA	66	4	4.72	0.20	VT SALT LAKE CITY	59	0	1.04	-0.76
FL JACKSONVILLE	76	3	0.96	-2.60	NE SCOTTSBLUFF	59	2	1.48	-1.31	VT BURLINGTON	62	6	3.81	0.49
FL KEY WEST	80	-1	0.88	-2.60	NE VALENTINE	59	2	3.44	0.28	VA LYNCHBURG	66	2	4.75	0.84
FL MIAMI	81	2	3.45	-2.76	NV ELY	47	-4	0.66	-0.49	VA NORFOLK	67	1	3.98	0.17
FL ORLANDO	78	1	4.13	0.58	NV LAS VEGAS	70	-4	0.13	-0.15	VA RICHMOND	67	1	3.73	-0.11
FL TAMPA	79	2	1.96	-1.14	NV RENO	51	-5	0.82	0.13	VA ROANOKE	67	3	4.47	0.49
FL VALPARAISO/EGLIN	77	4	1.50	-2.51	NH WINNEMUCCA	49	-6	3.57	2.74	VA WASH/DULLES	66	4	4.52	0.50
FL WEST PALM BEACH	79	2	1.93	-4.19	NH CONCORD	59	4	3.97	0.83	WA HANFORD	63	-	0.52	0.01
GA ATHENS	72	3	3.08	-1.29	NJ NEWARK	65	2	6.52	2.39	WA OLYMPIA	54	1	2.08	-0.01
GA ATLANTA	73	4	1.23	-3.06	NM ALBUQUERQUE	65	2	T	-0.50	WA QUILLAYUTE	52	1	3.55	-1.85
GA AUGUSTA	74	4	2.05	-1.72	NY ALBANY	63	5	5.87	2.46	WA SEATTLE-TACOMA	55	0	1.98	0.28
GA COLUMBUS	77	4	1.70	-2.47	NY BINGHAMTON	61	5	5.98	2.62	WA SPOKANE	56	2	3.09	1.68
GA MACON	75	3	0.87	-2.70	NY BUFFALO	63	6	3.73	0.59	WA YAKIMA	59	2	1.20	0.75
GA SAVANNAH	76	2	1.97	-2.08	NY ROCHESTER	63	6	2.63	-0.09	WV BECKLEY	62	2	7.45	3.48
HI HILO	72	-2	15.65	5.74	NY SYRACUSE	63	6	2.37	-0.81	WV CHARLESTON	66	2	5.27	1.32
HI HONOLULU	77	-1	0.16	-0.97	NC ASHEVILLE	66	3	2.22	-2.21	WV ELKINS	61	3	3.96	-0.16
HI KAHULUI	74	-1	0.46	-0.32	NC CHARLOTTE	74	7	1.53	-2.29	WV HUNTINGTON	66	3	4.24	0.02
HI LIHUE	74	-2	1.42	-1.73	NC GREENSBORO	68	2	5.04	1.02	WI EAU CLAIRE	63	6	3.97	0.18
ID BOISE	58	-1	4.40	3.32	NC HATTERAS	65	-2	6.51	2.51	WI GREEN BAY	61	5	2.21	-0.61
ID LEWISTON	59	0	3.78	2.47	NC RALEIGH	69	2	3.80	-0.12	WI MADISON	62	6	4.58	1.44
IL POCATELLO	52	-1	2.17	0.82	NC WILMINGTON	72	2	7.57	3.14	WI MILWAUKEE	60	5	2.48	-0.36
IL CHICAGO/O'HARE	65	6	3.02	-0.30	ND BISMARCK	58	3	1.10	-1.08	WI CASPER	55	2	0.73	-1.40
IL MOLINE	67	5	3.31	-0.99	ND DICKINSON	56	2	1.46	-1.11	WI CHEYENNE	53	1	2.35	-0.04
IL PEORIA	67	5	5.51	1.81	ND FARGO	61	5	7.34	4.89	WI LANDER	54	1	0.83	-1.50
IL ROCKFORD	64	5	3.57	-0.09	ND GRAND FORKS	58	3	2.37	0.32	WI SHERIDAN	54	2	0.29	-2.10
IL SPRINGFIELD	68	5	5.65	2.03	ND JAMESTOWN	58	3	2.13	0.26	PR SAN JUAN	-	-	3.67	-2.00
IN EVANSVILLE	70	4	5.91	1.16	OH WILLISTON	56	0	1.03	-0.96					
IN FORT WAYNE	66	6	2.18	-1.26	OH AKRON-CANTON	64	5	2.74	-0.99					
IN INDIANAPOLIS	67	4	6.13	2.13	OH CINCINNATI	66	4	5.12	0.84					
IN SOUTH BEND	65	5	2.50	-0.72	OH CLEVELAND	64	6	1.91	-1.58					
IA BURLINGTON	69	7	2.91	-0.88	OH COLUMBUS	67	6	3.10	-0.83					
IA CEDAR RAPIDS	65	4	4.66	0.95	OH DAYTON	66	4	4.10	0.22					
IA DES MOINES	66	4	4.63	0.97	OH MANSFIELD	64	5	1.95	-2.40					
IA DUBUQUE	64	5	3.27	-0.99	OH TOLEDO	66	7	2.07	-0.84					
IA SIOUX CITY	65	4	2.87	-0.80	OH YOUNGSTOWN	63	5	1.94	-1.58					
IA WATERLOO	65	5	4.23	0.15	OK OKLAHOMA CITY	72	4	2.12	-3.10					
KS CONCORDIA	68	5	0.80	-3.49	OR TULSA	73	4	2.46	-3.14					
KS DODGE CITY	68	4	2.66	-0.37	OR ASTORIA	52	-1	3.75	0.73					
KS GOODLAND	62	3	1.69	-1.80	OR BURNS	49	-2	2.86	1.88					
KS TOPEKA	70	6	2.08	-2.37	OR EUGENE	53	-2	4.99	2.83					
KS WICHITA	70	4	1.64	-2.17	OR MEDFORD	54	-4	4.28	3.26					
KY JACKSON	67	3	6.28	1.85	OR PENDLETON	56	-1	1.52	0.53					
KY LEXINGTON	67	3	6.18	1.71	OR PORTLAND	58	-1	5.55	3.49					
KY LOUISVILLE	69	3	5.06	0.44	PA SALEM	55	0	5.56	3.67					
LA PADUCAH	71	4	3.23	-1.71	PA ALLENTOWN	65	5	4.58	0.38					
LA BATON ROUGE	78	2	0.35	-4.54	PA ERIE	63	6	6.67	-0.77					
LA LAKE CHARLES	78	3	0.04	-5.63	PA MIDDLETOWN	67	5	8.37	2.11					
LA NEW ORLEANS	79	4	0.43	-4.13	PA PHILADELPHIA	66	3	3.87	0.12					
LA SHREVEPORT	77	4	0.16	-6.03	PA PITTSBURGH	64	5	2.39	-1.20					

Based on 1961-90 normals.

National Agricultural Summary

June 1 - 7, 1998

HIGHLIGHTS

Significantly lower temperatures across the Northern United States slowed crop development and caused some isolated frost damage in the Great Lakes Region and northern Great Plains. The below-normal temperatures slowed crop growth as far south as the southern Corn Belt and central Great Plains, but little or no frost damage occurred in those areas. The southern Plains, Mississippi Delta, and Southeastern

States continued very hot, promoting rapid maturing of winter wheat, but also depleting topsoil moisture. Temperatures remained below normal in the Southwest, which continued to delay planting operations and hindered crop development. Strong storms struck the southern Appalachian Mountains and Atlantic Coastal Plains, causing some hail and wind damage.

Corn: Overall crop emergence advanced to 94 percent, 7 percentage points above the previous week, with the most progress in the central Corn Belt and Ohio Valley. Near-freezing temperatures caused light to moderate damage in low-lying areas of the Great Lakes Region and the northern Great Plains. Well-below-normal temperatures in the Corn Belt slowed crop development, but no frost damage occurred. Dry soils hindered the effectiveness of herbicides in some areas across the northern Corn Belt. Wet soils in parts of the Ohio Valley hindered crop development and limited cultivation. Conditions continued to deteriorate in Texas, with little relief from hot, dry weather.

Soybeans: Planting activity slowed as many farmers in the Corn Belt finished planting for the season. Nationally, 86 percent of the crop was in the ground, more than 1 week ahead of the normal pace. Planting exceeded 90 percent in the western Corn Belt, where it has been drier, but eastern Corn Belt growers made excellent progress and were nearly 1 week ahead of normal at over 80 percent complete. Dry soils caused some planting delays in the Great Lakes Region as well as parts of the Lower Mississippi Valley as farmers waited for rain to improve soil moisture levels. Below-normal temperatures had little effect on crop germination as emergence advanced to 71 percent, 18 percentage points above the previous week. More than one-fourth of the crop emerged in the eastern Corn Belt States. The crop was rated mostly good, but dry soils caused spotty stands in the Great Lakes Region and Lower Mississippi Valley.

Winter wheat: Ninety-three percent of the Nation's winter wheat crop has headed, 1 week ahead of normal. The crop rapidly developed in the central and northern Great Plains, eastern Corn Belt, and Great Lakes Region despite much cooler temperatures. In the southern Great Plains, hot, dry weather, accelerated maturation and harvest activity. Nationally, harvest progress advanced to 9 percent, more than double the normal pace for this date. Georgia farmers had enough sunny weather to harvest half of their crop, while progress in the southern Great Plains advanced

past the one-quarter mark. Dry soils caused conditions to decline in most winter wheat-producing States, but conditions improved in Oklahoma despite a growing shortage of topsoil moisture.

Cotton: Planting progressed to 89 percent, only 6 percentage points above the previous week, but still equal to the 5-year average. Growers in the Mississippi Delta States were virtually finished planting, while dry soils limited progress in Texas and most of the Southeast. Oklahoma farmers planted over one-fourth of their acreage despite an increasing shortage of topsoil moisture. Fifteen percent of the crop has reached the squaring stage, slightly ahead of normal. In the Coastal Bend Region, bolls were opening, but the hot weather caused some shedding.

Rice: Planting is 98 percent complete and 84 percent emerged. Farmers in the southern Great Plains and Lower Mississippi Valley were virtually finished planting, while growers in California lagged. Cool weather has slowed germination in California, where less than half of the normal acreage has emerged.

Small grains: Nearly all of the spring wheat and barley has emerged, at least 1 week ahead of normal in most States and more than 2 weeks ahead of normal in many areas. Cool weather slowed growth, but frost damage was expected to be minimal. Light showers brought some relief to barley and spring wheat in Montana, but most crops continued to suffer from excessive dryness. Oat conditions declined in the Great Lakes Region due to dry soils.

Other crops: Sorghum planting advanced to 77 percent, nearly 1 week ahead of the normal pace for this date. Dry weather allowed planting to progress ahead of normal in the central and northern Great Plains, southern Corn Belt, and parts of the Mississippi Delta. Soils were too dry for planting in most of the southern Great Plains and Lower Mississippi Valley. Peanut planting progressed to 90 percent, 6 percentage points ahead of normal, but dry soils limited progress in many areas.

Crop Progress and Condition

Week Ending June 7, 1998

Soybeans Percent Planted				
	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AL	69	68	60	63
AR	65	52	61	56
GA	63	53	62	57
IL	85	66	93	66
IN	84	69	89	70
IA	97	90	98	76
KS	90	85	78	54
KY	50	36	33	39
LA	86	84	79	78
MI	92	81	76	79
MN	98	97	97	84
MS	85	82	82	77
MO	79	64	69	50
NE	96	92	95	76
NC	55	43	51	53
OH	92	76	76	73
SC	47	38	46	44
SD	91	79	75	61
TN	47	32	37	41
ALL	86	75	83	68

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

Winter Wheat Percent Headed				
	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CA	99	99	99	99
CO	95	77	94	83
GA	100	100	100	100
ID	31	9	31	22
IL	99	98	90	93
IN	100	99	77	84
KS	100	99	100	100
MI	100	85	7	19
MO	100	99	97	95
MT	46	22	6	6
NE	89	70	82	74
NC	100	100	100	100
OH	100	99	46	70
OK	100	100	100	100
OR	73	55	79	83
SD	50	25	9	25
TX	99	97	99	99
WA	90	65	68	67
ALL	93	86	85	85

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

Corn Percent Emerged				
	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
CO	98	91	NA	NA
GA	100	98	NA	NA
IL	91	81	NA	NA
IN	86	76	NA	NA
IA	99	95	NA	NA
KS	99	96	NA	NA
KY	85	68	NA	NA
MI	89	80	NA	NA
MN	99	98	NA	NA
MO	93	86	NA	NA
NE	99	96	NA	NA
NC	92	90	NA	NA
OH	89	71	NA	NA
PA	79	50	NA	NA
SD	93	85	NA	NA
TX	98	96	NA	NA
WI	97	89	NA	NA
ALL	94	87	NA	NA

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

Soybeans Percent Emerged				
	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AL	49	48	NA	NA
AR	52	41	NA	NA
GA	49	32	NA	NA
IL	62	32	NA	NA
IN	63	41	NA	NA
IA	91	76	NA	NA
KS	81	66	NA	NA
KY	12	8	NA	NA
LA	82	78	NA	NA
MI	71	53	NA	NA
MN	94	84	NA	NA
MS	76	71	NA	NA
MO	62	39	NA	NA
NE	82	69	NA	NA
NC	50	30	NA	NA
OH	65	42	NA	NA
SC	28	6	NA	NA
SD	76	47	NA	NA
TN	32	20	NA	NA
ALL	71	53	NA	NA

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

Winter Wheat Percent Harvested				
	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AR	31	2	5	10
CA	5	1	17	12
CO	0	0	0	0
GA	77	27	51	59
ID	0	0	0	0
IL	0	0	0	0
IN	0	0	0	0
KS	0	0	0	0
MI	0	0	0	0
MO	3	0	0	0
MT	0	0	0	0
NE	0	0	0	0
NC	11	7	17	15
OH	0	0	0	0
OK	28	5	1	9
OR	0	0	0	0
SD	0	0	0	0
TX	28	10	8	17
WA	0	0	0	0
ALL	9	2	2	4

These 19 States harvested 92% of last year's winter wheat acreage.

Sorghum Percent Planted				
	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AR	97	91	99	96
CO	60	45	50	43
IL	53	27	75	47
KS	78	60	62	48
LA	96	96	95	94
MS	95	76	98	93
MO	87	73	76	63
NE	97	87	92	69
NM	26	21	64	44
OK	45	28	23	48
SD	76	57	39	44
TX	77	71	77	82
ALL	77	64	69	63

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

Crop Progress and Condition

Week Ending June 7, 1998

Cotton Percent Planted

	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AL	100	94	99	96
AZ	100	99	100	100
AR	100	99	100	99
CA	97	95	100	100
GA	90	86	95	96
LA	100	99	100	100
MS	98	91	100	99
MO	100	100	100	100
NM	100	98	100	98
NC	99	97	99	99
OK	94	67	77	76
SC	97	93	98	99
TN	100	98	100	100
TX	76	68	82	77
ALL	89	83	92	89

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

Cotton Percent Squaring

	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AL	10	5	3	8
AZ	24	4	58	50
AR	9	0	3	8
CA	15	0	32	9
GA	17	9	9	20
LA	17	0	7	16
MS	19	2	4	27
MO	6	0	0	2
NM	0	0	0	0
NC	10	1	0	1
OK	0	0	0	1
SC	8	5	10	7
TN	0	0	0	4
TX	18	15	10	14
ALL	15	8	10	14

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

Peanuts Percent Planted

	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AL	98	95	100	98
FL	91	83	97	NA
GA	98	94	98	99
NC	98	81	94	98
OK	90	87	77	73
SC	91	83	100	96
TX	67	58	37	45
VA	99	97	100	100
ALL	90	84	83	84

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

Rice Percent Planted

	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AR	99	98	99	98
CA	90	60	100	95
LA	99	99	99	99
MS	100	97	100	96
TX	100	100	98	98
ALL	98	92	99	98

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

Rice Percent Emerged

	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
AR	91	86	95	92
CA	35	15	98	73
LA	99	99	97	97
MS	98	91	99	93
TX	97	96	90	92
ALL	84	77	96	90

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

Spring Wheat Percent Emerged

	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
ID	99	92	97	95
MN	98	97	78	82
MT	97	93	92	91
ND	97	90	84	80
SD	100	99	91	94
ALL	98	93	86	85

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

Barley Percent Emerged

	Jun 7 1998	Prev Week	Prev Year	5-Yr Avg
ID	98	89	95	92
MN	98	97	82	82
MT	98	93	92	86
ND	96	90	84	82
SD	100	98	92	92
WA	100	99	99	98
ALL	97	92	89	86

These 6 States planted 83% of last year's barley acreage.

Winter Wheat Crop Condition by Percent

	VP	P	F	G	EX
AR	0	3	34	52	11
CA	0	10	50	30	10
CO	3	9	16	50	22
GA	2	7	39	45	7
ID	0	0	4	54	42
IL	1	10	32	50	7
IN	3	8	24	50	15
KS	2	7	24	57	10
MI	1	9	32	48	10
MO	1	9	29	52	9
MT	5	38	39	18	0
NE	2	10	24	55	9
NC	1	6	29	61	3
OH	1	3	19	52	25
OK	0	4	18	67	11
OR	0	0	5	57	38
SD	0	3	18	55	24
TX	2	13	41	38	6
WA	0	5	23	58	14
ALL	1	8	25	54	12
Prev Wk	2	7	24	55	12
Prev Yr	3	9	28	49	11

Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	1	10	21	68	0
AR	0	4	33	50	13
GA	5	14	37	41	3
IL	1	5	34	55	5
IN	1	6	27	55	11
IA	1	2	13	54	30
KS	0	2	20	64	14
KY	0	8	24	51	17
LA	2	19	51	28	0
MI	4	11	37	43	5
MN	0	2	23	60	15
MS	0	5	26	59	10
MO	0	8	29	55	8
NE	0	2	16	68	14
NC	0	0	16	76	8
OH	1	5	27	52	15
SC	0	7	29	59	5
SD	0	2	12	62	24
TN	0	0	30	60	10
ALL	1	4	25	56	14
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	0	0	0	0	0

Crop Progress and Condition

Week Ending June 7, 1998

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	0	1	25	62	12
GA	12	17	32	35	4
IL	3	8	29	53	7
IN	1	5	24	58	12
IA	1	2	13	54	30
KS	0	3	16	71	10
KY	0	2	27	57	14
MI	5	10	35	44	6
MN	0	2	21	58	19
MO	0	4	29	55	12
NE	0	2	14	67	17
NC	0	2	21	68	9
OH	1	4	22	56	17
PA	1	3	22	61	13
SD	0	1	10	63	26
TX	11	21	33	34	1
WI	0	2	16	54	28
ALL	1	4	21	57	17
Prev Wk	1	3	20	57	19
Prev Yr	1	4	30	55	10

Oats Crop Condition by Percent					
	VP	P	F	G	EX
IA	1	3	16	62	18
MI	2	16	44	36	2
MN	0	2	20	69	9
NE	0	9	13	57	21
ND	3	14	33	47	3
OH	1	8	23	56	12
PA	0	6	30	52	12
SD	0	4	19	63	14
WI	1	6	20	54	19
ALL	1	7	24	56	12
Prev Wk	1	4	22	60	13
Prev Yr	0	5	31	55	9

Rice Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	4	25	47	24
CA	0	20	40	40	0
LA	0	3	33	58	6
MS	0	1	29	60	10
TX	1	5	33	51	10
ALL	0	6	30	50	14
Prev Wk	0	5	31	50	14
Prev Yr	0	3	33	50	14

Spring Wheat Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	0	4	50	46
MN	0	11	23	58	8
MT	2	22	49	27	0
ND	2	9	25	51	13
SD	0	4	20	58	18
ALL	1	11	29	48	11
Prev Wk	1	7	28	51	13
Prev Yr	0	6	25	58	11

Peanuts Crop Condition by Percent					
	VP	P	F	G	EX
AL	10	21	51	18	0
FL	2	8	63	27	0
GA	3	8	31	48	10
NC	0	0	16	82	2
OK	0	0	59	41	0
SC	0	3	42	54	1
TX	6	14	31	31	18
VA	0	0	5	60	35
ALL	4	10	35	41	10
Prev Wk	2	10	36	43	9
Prev Yr	0	5	26	60	9

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

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	5	15	30	49	1
AZ	0	11	32	38	19
AR	0	1	35	48	16
CA	50	30	15	5	0
GA	4	11	35	43	7
LA	1	7	56	35	1
MS	1	2	21	53	23
MO	0	0	21	69	10
NM	0	1	37	39	23
NC	0	3	25	67	5
OK	0	0	37	63	0
SC	0	5	29	55	11
TN	0	2	18	63	17
TX	9	20	31	34	6
ALL	8	13	30	41	8
Prev Wk	6	12	34	42	6
Prev Yr	1	9	31	50	9

Barley Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	0	4	52	44
MN	1	9	23	58	9
MT	18	31	30	19	2
ND	1	6	23	53	17
SD	0	4	22	61	13
WA	0	0	27	48	25
ALL	5	11	22	45	17
Prev Wk	1	7	27	46	19
Prev Yr	1	5	23	58	13

* Revised

State Agricultural Summaries

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

ALABAMA: Days suitable for fieldwork 6.0. Topsoil 30% very short, 25% short, 36% adequate, 9 surplus. Hot, dry weather interrupted by intermittent scattered showers. Cotton, peanuts plantings neared completion as weather permitted. Planting of remaining soybean fields increased, with additional soil moisture. Thunderstorm moved across the State 5th evening providing much-needed moisture. Wheat harvested 45%, 25% 1997, 28% avg. Soybeans planted 69%, 60% 1997, 63% avg. Hay harvested 87%, 69% 1997, 77% avg. Wheat 2% very poor, 5% poor, 22% fair, 67% good, 4% excellent. Livestock 1% very poor, 6% poor, 22% fair, 66% good, 5% excellent. Pasture feed 15% very poor, 24% poor, 32% fair, 28% good, 1% excellent. Hay cutting continued ahead of schedule. Peach harvest increased with additional moisture.

ALASKA: Days suitable for fieldwork 6.2. Topsoil 60% short, 40% adequate. Subsoil 35% short, 60% adequate, 5% surplus. Oats 90% emerged. Moderate to no rain throughout the State. Daytime high temperatures low 50's to the mid-70's. More rain is still needed to further crop growth. Oat 5% below average, 25% average, 70% above average. Barley 99% emerged. Barley 10% avg, 90% above average. Commercial potato seeding 95% complete, 2% emerged. Crop condition was mostly average. Vegetable emergence 90% complete in average condition. General crop growth for the week 50% slow, 45% moderate, 5% rapid. Wind, rain damage to new plantings 70% none, 25% light, 5% moderate.

ARIZONA: Cooler nighttime temperatures have delayed cotton development, resulting in crop progress being about 2 weeks behind normal. Setting bolls 2%, 13% 1997, 7% avg. Alfalfa harvest activity was reported as 43% not being harvested, 16% moderate, 41% active. Alfalfa condition mostly improved again last week; 4% poor, 8% fair, 35% good, 53% excellent. Small grains are still about 1 week behind 1997 but, ahead of the average. Small grains were reported as 93% mature, 96% 1997, 58% avg. Small grain harvest was reported as 31%, 51% 1997, 56% avg. Small grain condition improved 41% good, 45% excellent. Central, western areas continued harvesting vegetables, melons last week. Central area growers shipped carrots, dry onions, parsley, table, manufacturing potatoes. Western area growers harvested cabbage, canary melons, cantaloupes, celery, honeydews, orange flesh melons, perlette grapes, watermelons. Citrus shipments from central, western areas continued sporadically last week. Both central, western area groves packed grapefruit.

ARKANSAS: Days suitable for fieldwork 6. Soil moisture 2% very short, 23% short, 61% adequate, 14% surplus. Temperatures were near normal for the week, with strong thunderstorms in parts of State, light to moderate rain elsewhere. Main farming activities: Harvesting wheat, planting soybeans, cutting hay. Other activities include preparing most wheat fields for planting double-cropped soybeans, weed control in rice, cotton, full-season soybeans, irrigation of corn, rice, some insecticide applications for weevils in cotton, fertilizing pastures; meadows, spraying fruit trees. Tomato market in Warren opened June 5: Alfalfa 5% poor, 22% fair, 71% good, 2% excellent. Other hay 2% poor, 24% fair, 65% good, 9% excellent. Range, pasture conditions 5% poor, 29% fair, 59% good, 7% excellent.

CALIFORNIA: Field activities gradually resumed in most areas under drier conditions, although temperatures remained cool. Grain harvests of wheat, barley, oats continued in the Imperial, San Joaquin Valleys, but had not started in the Sacramento, coastal valleys. Overall progress of wheat, barley was still at least 2 weeks behind normal in the northern two-thirds of the State, due to the cool, wet conditions. Rice planting was nearing completion in the Sacramento Valley but was just underway in the central San Joaquin Valley. Rice emergence, growth were slowed by the cool temperatures. Because of the unseasonably cool weather, most of the cotton recently planted in the San Joaquin and Sacramento Valleys was progressing poorly. Fungal problems continued to plague developing cotton seedlings in many fields. Early-seeded fields were cultivated, fertilized, thinned, hand weeded. Desert area cotton fields were progressing normally, were squaring and setting bolls. Some alfalfa, oat hay continued to show signs of moisture damage. Corn, dry edible bean growth were slowed by the cool conditions,

some planting was still ongoing. Seed alfalfa was treated for lygus and mites. Old crop sugar beet harvest continued in the San Joaquin Valley, while new crop fields were sprayed for mildew. Alfalfa, oats, sudangrass were cut for hay or greenchopped. Stone fruit harvest activity gained momentum last week, the maturity of most crops was about 3 weeks behind normal. Cherry crop suffered from split fruit, growers were picking what they could. Grape growers applied fungicides to control phomopsis, powdery mildew. Other vineyard activities included weed control, pest control, bunch thinning. Fresh grape picking continued in the Coachella Valley. Stone fruit was treated to control peach twig borer, oriental fruit moth, codling moth. Picking of apricots, nectarines, plums, freestone peaches continued. Olive bloom neared completion; fruit development was 3 weeks behind normal. Walnuts were treated for codling moth. Strawberry picking was active. Picking of citrus crops was also active. Only a few fields of spring head, leaf lettuce remained to be harvested in Fresno County. Head lettuce harvest in Monterey County was in full swing. Processing tomato planting continued. Processing tomatoes already planted in Tulare County were exhibiting good growth. Some growers were concerned about late blight development in tomatoes. Potato harvest in the Imperial-Coachella Valley progressed. Weather in the San Joaquin Valley stimulated increased potato blight in the spring crop. Sweet potatoes were planted in the San Joaquin Valley. Garlic fields in the Gilroy-Hollister area were approximately 2-3 weeks away from the start of harvest. Tulare County squash, cucumbers were being picked. Broccoli, cauliflower were harvested in the coastal valleys, San Joaquin Valley. Melon harvest continued in the Imperial, Coachella Valleys, while planting progressed in the central valleys. Harvest of sweet corn continued in the desert areas. Sweet corn in the San Joaquin Valley was irrigated, fertilized, weeded, treated for worms. Onions were planted in the Tulare-Butte Valley area, harvested in the Imperial-Coachella Valley. Spinach harvest continued in the San Joaquin Valley. Pasture, rangeland remained in excellent condition in most areas of the State. At lower elevations, rangeland vegetation was maturing and dropping seed. Mid-level elevation rangeland vegetation was still developing. Perennial species were doing well. Higher elevation rangeland was still under snow. Last week's mild temperatures were favorable to milk production. Range cattle made good weight gains. Calves were weaned, cull cows, calves were marketed.

COLORADO: Days suitable for fieldwork 5.5. Topsoil 11% very short, 32% short, 56% adequate, 1% surplus. Subsoil 10% very short, 31% short, 58% adequate, 1% surplus. Seasonal weather early in the week but unusually cool over the weekend brought below-freezing temperatures to northeastern areas on 6th morning. Crop damage to corn, dry beans is yet to be determined. Localized heavy rains, hail storms in eastern areas on 7th. Spring barley 100% emerged, 100% 1997, 96% avg.; 16% headed, 42% 1997, 13% avg.; 5% poor, 18% fair, 47% good, 30% excellent. Oats 100% emerged, 96% 1997, 88% avg.; 17% headed, 9% 1997, 8% avg.; 1% very poor, 7% poor, 32% fair, 51% good, 9% excellent. Dry onions 2% poor, 7% fair, 60% good, 31% excellent. Sugar beets 75% established; 3% poor, 6% fair, 64% good, 27% excellent. Summer potatoes 100% emerged, 94% 1997, 87% avg.; 1% poor, 6% fair, 59% good, 34% excellent. Fall potatoes 38% emerged, 20% 1997, 19% avg. Dry beans 48% planted, 45% 1997, 32% avg.; 18% emerged, 7% 1997, 6% avg. Alfalfa 39% 1st cutting, 29% 1997, 17% avg. Winter wheat 95% headed, 96% 1997, 83% avg.; 8% turning color, 8% 1997, 2% avg. Spring wheat 100% emerged, 100% 1997, 91% avg.; 15% headed, 3% 1997, 3% avg.; 1% very poor, 8% poor, 24% fair, 46% good, 21% excellent. Livestock in mostly fair to good condition.

DELAWARE: Days suitable for fieldwork 6.5. Topsoil 2% very short, 37% short, 61% adequate. Subsoil 2% short, 98% adequate. Winter wheat 3% very poor, 2% poor, 22% fair, 61% good, 12% excellent; 40% turned, 6% 1997, 11% avg. Apples 2% fair, 96% good, 2% excellent. Peaches 5% fair, 93% good, 2% excellent. Corn for grain 92% planted, 93% 1997, 96% avg.; 75% emerged. Soybeans 31% planted, 29% 1997, 39% avg.; 14% emerged. Barley 5% very poor, 10% poor, 32% fair, 51% good, 2% excellent; 85% turned, 77% 1997, 81% avg.; 25% harvested, 0% 1997, 3% avg. Sorghum 20% planted, 24% 1997, 35% avg. Sweet corn 64% planted, 71% 1997, 85% avg. Cucumbers 35% planted, 38% 1997, 46% avg. Cantaloupes 68% planted, 68% 1997, 75% avg. Snap beans 37% planted, 28% 1997, 48% avg. Tomatoes 70% planted, 61% 1997, 79% avg. Watermelons 68%

planted, 66% 1997, 80% avg. Green peas 31% harvested, 10% 1997, 17% avg. Strawberries 60% harvested, 44% 1997, 58% avg. Other hay 78% 1st cutting harvested, 88% 1997, 85% avg.; 5% 2nd cutting harvested, 21% 1997, 4% avg. Alfalfa 70% 1st cutting harvested, 87% 1997, 81% avg. Hay supplies 13% short, 87% adequate. Pasture feed 15% fair, 85% good. Activities: Dry weather conditions for the week, with only 2 sprinkles. Lots of irrigation, harvesting of barley, strawberries, asparagus, baling straw, planting of soybeans.

FLORIDA: Topsoil throughout State mostly very short to short, with adequate moisture in scattered areas. Showers late last week helped some. Most daytime highs averaged in the 90's while lows averaged in the 70's. Scattered afternoon, evening showers dropped varying amounts of rain over several Peninsula localities. Brush fires problem in north, central areas. Sugarcane growth normal. Wheat harvest complete. Dry soil conditions delaying cotton, peanut, soybean planting. Some farmers replanted cotton because of poor stands due to dry soils. All dry land crops under stress because of hot, dry conditions. Peanuts planted 91%; very poor 2%, poor 8%, fair 63%, good 27%. Several growers in Quincy area began shipping tomatoes during week. Major crops shipped during week include snap beans, blueberries, carrots, celery, sweet corn, cucumbers, eggplant, okra, parsley, peppers, potatoes, squash, tomatoes, watermelon. Extremely hot, dry weather, caretakers irrigating all citrus areas. Some wilt in non-irrigated groves, some fruit softening in dry groves. Pickers reducing hours due to heat. Valencia harvest slowing as supplies running low. Grapefruit movement reduced by heat, soft fruit, lack of market places. Caretakers irrigating, cutting cover crops, herbiciding, spraying. Pasture feed very poor 10%, poor 40%, fair 40%, good 10%. Cattle poor 5%, fair 75%, good 20%. Pastures throughout Florida stressed from low soil moisture conditions. Pasture conditions improved Panhandle, west-central, southwest following some rain. Pastures: North in closely grazed situation. Pastures continued to decline during dry weather north, central. Some supplemental feeding of cattle being done.

GEORGIA: Days suitable for fieldwork 5.8. Soil moisture 28% very short, 30% short, 39% adequate, 3% surplus. Corn 50% silked, 43% 1997, 39% avg.; 12% dough, 5% 1997, 9% avg. Hay 5% very poor, 12% poor, 36% fair, 43% good, 4% excellent. Peanuts 23% blooming, 15% 1997, 27% avg.; 4% pegging, 2% 1997, 4% avg. Sorghum 7% very poor, 10% poor, 31% fair, 47% good, 5% excellent; 82% planted, 63% 1997, 73% avg. Tobacco 1% very poor, 5% poor, 41% fair, 46% good, 7% excellent. Onions 16% very poor, 16% poor, 37% fair, 31% good; 97% harvested, 99% 1997, 99% avg. Watermelons 13% poor, 37% fair, 43% good, 7% excellent. Apples 2% fair, 87% good, 11% excellent. Peaches 15% very poor, 34% poor, 30% fair, 11% good, 10% excellent; 28% harvested, 41% 1997, 38% avg. Pecans 3% very poor, 13% poor, 47% fair, 35% good, 2% excellent. Thunderstorms, rain near end of week resulted in improved soil moisture levels across the State. Most crop progress and conditions improved. Sorghum and soybean plantings made excellent progress. Heat stress remained a problem for dairy, poultry producers, cooler weekend temperatures brought some relief. Excellent progress wheat and hay harvesting. Irrigating all crops and vegetable continues where possible. Spraying tobacco for blue mold and insects. Weed and disease control in corn, cotton, peanuts. Activities: Planting vegetables. Spraying herbicides, fungicides. Harvesting peaches, watermelons, onions.

HAWAII: Partly cloudy skies, isolated showers were fair for crop progress. Advent of warmer temperatures aided crop growth, also increased insect pressure. Banana orchards were helped by the warmer weather, occasional showers. Harvesting will be steady. Fruit development on papaya trees were aided by favorable weather. Watermelon harvesting slowed by cloudy skies, relatively cool temperatures delaying maturity. Head cabbage harvesting very active. Light insect damage, good. Cucumber harvesting active, shipments are heavy. Tomato harvesting active, decrease expected from major producing area as season winds down.

IDAHO: Days suitable for fieldwork 4.5. Topsoil 16% surplus, 84% adequate. Cool temperatures slowing growth. Light frost damage in eastern regions to potatoes. Alfalfa hay first cutting 25%, 1997 28%, avg. 25%. Irrigation supply 52% excellent, 47% good, 1% fair. Dry beans planted 46%, 1997 67%, avg. 62%; emerged 8%, 1997 27%, avg. 27%. Dry peas emerged 100%, 1997 92%, avg. 85%. Lentils emerged 100%, 1997 91%, avg. 84%. Oats planted 99%, 1997 98%, avg. 96%; emerged 86%, 1997 91%, avg. 87%. Corn planted 95%, 1997 98%, avg. 96%; emerged 73%, 1997 91%, avg. 83%. Potatoes planted 97%, 1997 98%, avg. 97%; emerged 62%, 1997 67%, avg. 54%. Barley jointed 60%; booted 21%; headed 8%.

Spring wheat jointed 60%; booted 21%; headed 3%. Winter wheat jointed 99%; booted 80%. Sugar beets emerged 99%, 1997 100%, avg. 99%. Activities: Planting potatoes, dry beans, corn, cultivating, weed control, irrigation, scouting fields, fencing, moving livestock to spring pasture.

ILLINOIS: Days suitable for fieldwork 4.8. Topsoil 2% very short, 13% short, 56% adequate, 29% surplus. Excessive rain across southern areas continues to cause concern for farmers, while in the north, many areas would benefit from a nice rainfall. Affects of the wet spring can also be seen in the wheat crop. While the crop has progressed ahead of normal, many fields are contending with excessive scab damage. Farmers planted a substantial amount of the soybean crop. Other farming activities last week included side dressing anhydrous, cultivating, hoeing bean fields, tilling and preparing equipment for wheat harvest. Corn planted 98%, 100% 1997, 91% avg.; height 9 in., 8 in. 1997, 6 in. avg.; replanted 13%, NA 1997, NA avg. Winter wheat filled 91%, 55% 1997, 58% avg. Winter wheat turning yellow 66%, 6% 1997, 15% avg. Oats 2% poor, 24% fair, 62% good, 12% excellent; headed 27%, 12% 1997, 22% avg.; filled 9%, 0% 1997, 4% avg. Alfalfa hay 1% very poor, 3% poor, 21% fair, 64% good, 11% excellent; 1st cut 74%, 45% 1997, 46% avg. Alfalfa 2nd cut 2%, 0% 1997, 0% avg. Red clover 2% poor, 20% fair, 65% good, 13% excellent; cut 59%, 31% 1997, 42% avg.

INDIANA: Days suitable for fieldwork 4.8. Topsoil 5% very short, 17% short, 57% adequate, 21% surplus. Subsoil 2% very short, 11% short, 67% adequate, 20% surplus. There were scattered reports of frost in low-lying areas in the northernmost regions of the State over the weekend. Extent of the damage is not yet known. Soil conditions remain wet in the southern part of the State, particularly in the southwest, where there is water standing in fields. Northern region remains dry, causing emergence problems, poor stands. Range, pasture feed 1% very poor, 3% poor, 22% fair, 54% good, 20% excellent. First cutting of alfalfa 75% complete. Transplanting of tobacco 43% complete. Activities: Planting corn, soybeans, side-dressing corn, applying post-emergence chemicals, cutting hay, caring for livestock.

IOWA: Days suitable for fieldwork 3.7. Topsoil short %, adequate 80%, surplus 18%. Subsoil short 2%, adequate 81%, surplus 17%. Crop growth across the State has slowed down considerably due to cool, wet weather. West-central, southwest corner of the State are doing a great deal of replanting of corn, soybeans due to hail damage from past storms. 1998 row crops: Corn emerged 99%, 96% 1997, 84% avg. Soybeans planted 97%, 98% 1997, 76% avg.; emerged 91%, 80% 1997, 52% avg. Corn 1% very poor, 2% poor, 13% fair, 54% good, 30% excellent. Soybean 1% very poor, 2% poor, 13% fair, 54% good, 30% excellent. Oat 1% very poor, 3% poor, 16% fair, 62% good, 18% excellent. All hay 2% poor, 12% fair, 59% good, 27% excellent. Pasture feed 1% very poor, 3% poor, 14% fair, 51% good, 31% excellent.

KANSAS: Days suitable for fieldwork 6.2. Topsoil 5% very short, 57% short, 38% adequate. Subsoil 2% very short, 22% short, 75% adequate, 1% surplus. Hot, dry weather continues to stress the wheat crop, push crop progress ahead of last year and average. Harvest has just begun along the southern border. Below-freezing temperatures 5th night caused some frost damage in the northwest corner. Wheat turning 80%, 55% 1997, 41% avg.; ripe 5%, 1% 1997, 3% avg. Sorghum emerged 46%, NA 1997, NA avg. Sunflowers planted 56%, NA 1997, NA avg. Alfalfa hay 1st cutting 97%, 77% 1997, 67% avg.; 2nd cutting 8%, NA 1997, NA avg. Major field activities: Cultivating corn, planting fall crops, cutting brome, cutting alfalfa. Pasture feed 3% poor, 22% fair, 65% good, 10% excellent. Stockwater supplies 4% short, 94% adequate, 2% surplus.

KENTUCKY: Days suitable fieldwork 3.3. Topsoil 1% short, 49% adequate, 50% surplus. Subsoil 1% short, 55% adequate, 44% surplus. Rain midweek slowed fieldwork. Corn planting nearly complete. Winter wheat harvest beginning. Storms caused some lodging. Some rust, scab on wheat. Burley tobacco set 65%, 36%, 1997, 59% avg. Dark tobacco 75% set. Set tobacco 3% poor, 24% fair, 60% good, 13% excellent. Emerged corn 2% poor, 27% fair, 57% good, 14% excellent. Winter wheat 1% very poor 11% poor, 38% fair, 42% good, 8% excellent. Pasture feed 2% poor, 14% fair, 64% good, 20% excellent. Barley harvest 46% complete. Sorghum harvest 34% complete.

LOUISIANA: Days suitable for fieldwork 6.6. Soil moisture 46% very short, 28% short, 25% adequate, 1% surplus. Corn 19% very poor, 28% poor, 33% fair, 19% good, 1% excellent; 53% silked, 35% 1997, 48% avg.; 5% dough stage, 3% 1997, 7% avg. Cotton 99% emerged, 99% 1997, 99% avg.

Cotton is beginning to fruit, holding up well. Hay 88% 1st cutting, 70% 1997, 66% avg. Peaches 24% harvested, 19% 1997, 16% avg. Rice 0% headed, 0% 1997, 2% avg. Rice is experiencing heavy weevil pressure in some areas. Sorghum 13% poor, 55% fair, 32% good; 96% emerged, 90% 1997, 90% avg. Soybean planting has halted due to lack of moisture. Spring plowing 100% plowing, 98% 1997, 99% avg. Sugarcane 8% poor, 21% fair, 54% good, 17% excellent. Sweet potatoes 49% planted, 40% 1997, 43% avg. Wheat 99% harvested, 70% 1997, 73% avg. Livestock 4% very poor, 9% poor, 40% fair, 43% good, 4% excellent. Vegetables 8% very poor, 22% poor, 41% fair, 27% good, 2% excellent. Pastures are drying up with very little regrowth.

MARYLAND: Days suitable for fieldwork 6.2. Subsoil moisture 7% very short, 15% short, 72% adequate, 6% surplus. Topsoil 9% very short, 32% short, 56% adequate, 3% surplus. Winter wheat 4% very poor, 8% poor, 34% fair, 44% good, 10% excellent; 50% turned, 13% 1997, 26% avg. Barley 6% very poor, 8% poor, 36% fair, 40% good, 10% excellent; 93% turned, 68% 1997, 77% avg.; 34% harvested, 0% 1997, 2% avg. Rye 1% very poor, 3% poor, 19% fair, 68% good, 9% excellent; 66% turned, 51% 1997, 35% avg.; 23% harvested, 20% 1997, 6% avg. Field corn 92% planted, 95% 1997, 95% avg.; 87% emerged. Soybeans 42% planted, 52% 1997, 45% avg.; 33% emerged. Sorghum 61% planted, 40% 1997, 45% avg. Tobacco 55% transplanted, 58% 1997, 60% avg. Sweet corn 90% planted, 88% 1997, 85% avg. Green peas 45% harvested, 7% 1997, 21% avg. Tomatoes 96% planted, 94% 1997, 91% avg. Cantaloupes 97% planted, 89% 1997, 92% avg. Watermelons 95% planted, 89% 1997, 90% avg. Snap beans 74% planted, 83% 1997, 74% avg. Lima beans 50% planted, 34% 1997, 47% avg. Strawberries 70% harvested, 38% 1997, 44% avg. Pasture feed 4% very poor, 6% poor, 19% fair, 58% good, 13% excellent. Apples 14% fair, 62% good, 24% excellent. Peaches 5% fair, 70% good, 25% excellent. Other hay 74% 1st cutting harvested, 53% 1997, 56% avg. Alfalfa hay 95% 1st cutting harvested, 70% 1997, 77% harvested, 8% 2nd cutting harvested, 1% 1997, 2% avg. Hay supplies 2% very short, 6% short, 80% adequate, 12% surplus. Activities: Problems with blight reported in barley, hail damage reported in fruit crops in western areas, upper eastern shore. Grains continue to mature well ahead of average.

MICHIGAN: Days suitable for fieldwork 6.5. Topsoil 40% very short, 43% short, 17% adequate. Subsoil 14% very short, 57% short, 29% adequate. All hay 1st cutting 58%. Asparagus harvested 94%, 66% 1997, 71% avg. Drybeans planted 40%, 36% 1997. Oats headed 11%. Potatoes emerged 90%. Wind storm 31st damaged fruit trees, farm buildings, equipment, but little rain. Irrigated crops suffering from low moisture. Planting delayed. Frost damage occurred many areas, especially north. Haying off to early start. Areas in the south good first cutting, new growth hay, pasture stunted. Corn hurt doubly by frost and dry conditions some areas, especially in the north. Dry bean planting slow due to a dry soil. Earliest planted potatoes 1-inch tubers, late-planted potatoes beginning to emerge. Sugarbeets should recover from wind damage. Soybean emergence still hampered by low soil moisture. Asparagus harvest was nearing completion. Growers applied post harvest herbicides, fertilizer. Most onion fields at 3rd to 4th leaf stages in the Grand Rapids area. Winds caused some damage. Celery transplants irrigated. Pepper transplanting near completion. Sweet corn plants up to 2 feet tall in some areas. Tomato transplanting was 60 to 70% completed in the southwest. Early set plantings pruned and tied. High winds caused severe losses to fruit growers, Grand Rapids area hardest hit. Hail hit area on 29th damaged about 40% of fruit. Estimated 30,000 apple trees lost, three apple storage buildings went down during storm. West-central area also suffered extensive damage. Southeast, southwest, northwest regions no significant tree damage, benefited from rains. Cool weather eased effects of dry conditions southwest, but drought-stress symptoms appeared on blueberries and non-irrigated young fruit plants. Strawberry harvest progressed, ripening quickly. Fair amount sweet cherry fruit dropping occurred. Harvest expected to begin in less than 3 weeks. Tart cherries started to color in the southwest. Peaches at June drop. Plum pits hardening. Grapes ending bloom period; crop condition excellent.

MINNESOTA: Days suitable for fieldwork 4.9. Topsoil 5% very short, 13% short, 74% adequate, 8% surplus. Corn 47% cultivated, 10% 1997, 13% avg.; 13 in. height, 3 in. 1997, 3 in. avg. Soybeans 94% emerged, 71% 1997, 56% avg.; 16% cultivated, 2% 1997, 4% avg. Spring wheat 39% jointed, 9% 1997, 19% avg.; 0% heading, 0% 1997, 0% avg. Oats 60% jointed, 19% 1997, 25% avg.; 4% heading, 0% 1997, 1% avg. Barley 34% jointed, 5% 1997, 18% avg.; 0% heading, 0% 1997, 0% avg. Sunflowers 86% planted, 86% 1997, 84% avg. Potatoes 98% planted, 77% 1997, 85% avg. Sweet corn 90% planted, 81% 1997, 77% avg. Dry edible beans 89% planted, 86% 1997, 78% avg. Flax 91% planted, 79% 1997, 80% avg. Alfalfa 74%

1st cutting, 11% 1997, 18% avg. Spring wheat 0% very poor, 11% poor, 23% fair, 58% good, 8% excellent. Corn 2% poor, 21% fair, 58% good, 19% excellent. Soybeans 2% poor, 23% fair, 60% good, 15% excellent. Oats 2% poor, 20% fair, 69% good, 9% excellent. Barley 1% very poor, 9% poor, 23% fair, 58% good, 9% excellent. Sugar beets 4% very poor, 2% poor, 16% fair, 52% good, 26% excellent. Pasture feed 1% very poor, 6% poor, 25% fair, 58% good, 10% excellent. After nearly 3 months of above-normal temperatures, cooler weather prevailed last week. Areas of frost did cause minor crop damage last week. Also, the heavy winds from last weekend's storms caused some corn plants to break off.

MISSISSIPPI: Days suitable for fieldwork 4.5. Soil moisture 5% very short, 10% short, 59% adequate, 26% surplus. Corn 99% emerged, 100% 1997, 97% avg.; 17% silked, 7% 1997, 11% avg.; 8% poor, 20% fair, 62% good, 10% excellent. Rice 100% planted, 100% 1997, 96% avg.; 98% emerged, 99% 1997, 93% avg.; 1% poor, 29% fair, 60% good, 10% excellent. Soybeans 85% planted, 82% 1997, 77% avg.; 76% emerged, 69% 1997, 68% avg.; 5% poor, 26% fair, 59% good, 10% excellent. Peanuts 65% planted, 98% 1997, 93% avg.; 27% fair, 67% good, 6% excellent. Sweet potatoes 36% planted, 12% 1997, 36% avg. Hay 15% harvested (warm season) 17% 1997, 29% avg. Peaches 13% harvested, 13% 1997, 13% avg. Wheat 85% mature, 50% 1997, 80% avg.; 53% harvested, 5% 1997, 23% avg.; 2% very poor, 5% poor, 21% fair, 68% good, 4% excellent. Watermelons 86% planted, 94% 1997, 96% avg.; 4% poor, 23% fair, 54% good, 19% excellent. Blueberries 1% very poor, 10% poor, 32% fair, 49% good, 8% excellent. Cattle 4% poor, 25% fair, 60% good, 11% excellent. Pasture feed 2% very poor, 11% poor, 26% fair, 54% good, 7% excellent. Activities: Continued to be planting row crops, harvesting hay. There were reports of some soybeans having to be replanted due to excessive rain.

MISSOURI: Days suitable for fieldwork 5.1. Topsoil 2% very short, 19% short, 68% adequate, 11% surplus. Winter wheat harvesting is underway in the Bootheel, well ahead of normal. Planting progress for single-crop soybeans, sorghum is a week or better ahead of both last year, 5-year average for this date. Cotton crop is developing ahead of both last year and normal. Conditions of all the major crops are in mostly fair to good condition. First crop alfalfa cut 82%, 55% 1997, 48% avg. Other hay cut 50%, 26% 1997, 25% avg. Precipitation in the past week avg. 1.35 in., from 0.33 in. northwest, north-central, southwest to 2.73 in. east-central district. Pasture feed 3% poor, 24% fair, 65% good, 8% excellent.

MONTANA: Days suitable for fieldwork 5.8. Topsoil 37% very short, 30% short, 33% adequate. Subsoil 38% very short, 32% short, 30% adequate. Precipitation has continued throughout most areas of the State. We are still getting comments of pasture, range conditions being too dry. Oats seeded 100%, 98% 1997, 97% avg.; emerged 93%, 86% 1997, 84% avg. Condition of oats 2% very poor, 16% poor, 52% fair, 29% good, 1% excellent. Corn planted 99%, 98% 1997, 98% avg.; emerged 95%, 95% 1997, 87% avg. Dry beans planted 100%, 100% 1997, 98% avg.; emerged 98%, 96% 1997, 78% avg. Potatoes emerged 19%, 37% 1997, 30% avg. Cattle moved to summer ranges 90%, sheep moved 90%.

NEBRASKA: Day suitable for fieldwork 6.1. Topsoil 3% very short, 17% short, 76% adequate, 4% surplus. Subsoil 2% very short, 15% short, 81% adequate, 2% surplus. Spotty damage resulted from the low temperatures. Much of the wheat escaped injury. However, damage to some row crop fields was apparent. Newly cultivated fields, those located in low-lying areas were most susceptible. Eastern fields escaped injury. Winter wheat 2% very poor, 10% poor, 24% fair, 55% good, 9% excellent; 89% headed, 82% 1997, 74% avg. Corn 2% poor, 14% fair, 67% good, 17% excellent. Soybeans 96% planted, 95% 1997, 76% avg.; 82% emerged, 70% 1997, 50% avg.; bean leaf beetles active in central, eastern counties. Sorghum 97% planted, 92% 1997, 69% avg.; 77% emerged, 55% 1997, 41% avg. Sorghum 1% very poor, 7% poor, 30% fair, 50% good, 12% excellent. Dry beans 60% planted, 23% 1997, 37% avg.; emerged 12%, 3% 1997, 12% avg. Oats 9% poor, 13% fair, 57% good, 21% excellent; headed 14%, 1% 1997. Alfalfa 4% poor, 20% fair, 61% good, 15% excellent, 47% 1st cutting, 23% 1997, 30% avg. Wild hay 1% very poor, 5% poor, 20% fair, 59% good, 15% excellent. Pasture feed 1% very poor, 5% poor, 20% fair, 59% good, 15% excellent. Activities: Cultivating row crops, haying, working and moving cattle to summer pastures.

NEVADA: Alfalfa hay harvest was underway, some windrowed hay was damaged by the rains. Second cutting of alfalfa continued in eastern Clark County. Alfalfa condition fair to good, with weeds a problem in some first cutting hay. Spring grain and potato planting complete. Breezy, cooler

weather returned, significant precipitation fell over the northern half of the State. Precipitation 0.72 in. at Reno, 0.51 in. at Elko, Ely; 0.44 in. at Winnemucca. Las Vegas received only a trace of precipitation, temperatures averaged well below normal. Calving, lambing near complete. Branding, shearing, movement of livestock to summer range underway. Main farming: Hay harvest, irrigating, weed control, fertilizing, working livestock.

NEW ENGLAND: Days suitable for fieldwork 5.2. Topsoil 6% short, 90% adequate, 4% surplus. Subsoil 10% short, 88% adequate, 2% surplus. Pasture feed 1% poor, 8% fair, 65% good, 26% excellent. Maine potatoes 99% planted, 85% 1997, 90% avg.; 35% emerged, condition good to excellent. Massachusetts potatoes 100% planted, 99% 1997, 99% avg.; 95% emerged, condition good to excellent. Rhode Island potatoes 95% planted, 99% 1997, 95% avg.; 70% emerged, condition excellent to good. Oats in Maine 100% planted, 80% 1997, 90% avg.; 80% emerged, condition good to excellent. Barley in Maine 100% planted, 90% 1997; 80% emerged, condition good to excellent. Field corn 95% planted, 80% 1997, 85% avg.; 75% emerged, condition good. Sweet corn 75% planted, 65% 1997, 75% avg.; 65% emerged, condition good. Shade tobacco 95% planted, 85% 1997, 95% avg.; condition good. Broadleaf tobacco 65% planted, 45% 1997, 45% avg.; condition good. First cut hay 50% harvested, 15% 1997, 20% avg.; condition good to excellent. Apples petal fall, set below average to average, size average; condition good to fair. Peaches petal fall, set average, size average to above average; condition good. Pears petal fall, set average, size average; condition good. Strawberries 5% harvested, size average, condition good. Cranberries bud stage to early bloom, condition good. Highbush blueberries petal fall, set average to above average, size average; condition good. Wild blueberries petal fall, set average to above average, size average; condition good to excellent. Cool, breezy week, with temperatures below normal. Farmers finishing planting of corn, small grains, potatoes. Crops look good. Major farm activities: Planting tobacco, vegetables; cutting, baling hay; spreading manure; applying fertilizers, pesticides, herbicides; spraying fruit trees.

NEW JERSEY: Days suitable for fieldwork 7. Topsoil short to adequate, causing farmers to irrigate. Farmers are spraying for disease, pests, planting, cultivating. Farmers are active planting peppers, cucumbers, tomatoes, snap beans. Harvesting of turnips, spinach, beets, leeks, Chinese cabbage, endive, escarole, collards, kale, dandelion, Swiss chard, arugula, basil, cilantro, fava beans, turnips, herbs reported. Good, decreasing volume of asparagus, spinach, parsley, radishes. Light and increasing volume of cucumbers, fava beans, pickles. A good volume of lettuce, (Bib, Boston, iceberg), peas, green and yellow squash reported. Blueberries are starting to be harvested in southern areas. Peaches, apples are sizing well. Thinning of peaches, apples occurring. Strawberry harvest is beginning to decline in southern areas. Wheat, barley are turning yellow. Hay cutting reported throughout the State. Early-planted field corn reported to be 12 inches in height. Planting of soybeans continues, with the planting of field corn virtually complete. Pastures fair to good.

NEW MEXICO: Days suitable for fieldwork 6.9. Topsoil remained almost unchanged, 16% very short, 56% short, 28% adequate. As a result, temperatures averaged only 1 degree above normal for the week. Precipitation spotty, with a high of only 0.12 in. Winter wheat harvest began, 7% harvested, 0% 1997, 0% avg.; 100% headed, 100% 1997, 98% avg.; 5% very poor, 9% poor, 37% fair, 48% good, 1% excellent. Cotton plantings completed; 100% planted, 100% 1997, 98% avg.; 0% squared, 0% 1997, 0% avg.; 1% poor, 37% fair, 39% good, 23% excellent. Corn plantings also completed, 100% emerged; 3% poor, 18% fair, 74% good, 5% excellent. As rainfall for the year lags far behind normal so do sorghum plantings. Overall, 26% of the sorghum crop was in the ground, 64% 1997, 44% avg.; 8% very poor, 21% poor, 53% fair, 18% good. First cutting alfalfa reached 85% complete, 89% 1997; 2nd cutting 19% complete, 44% 1997. Alfalfa 4% poor, 20% fair, 63% good, 13% excellent. Chile crop improved slightly to 2% poor, 16% fair, 64% good, 18% excellent. Lettuce harvest was completed, 100% harvested, 100% 1997; 10% fair, 45% good, 45% excellent. Onion harvest continued, 8% complete; remained good to excellent. Apples, pecans remained in good, although strong spring winds have caused minor damage to some trees. Cattle, sheep remained in mostly fair to good condition. Pasture, range feed condition fell slightly last week, to 3% very poor, 26% poor, 41% fair, 30% good.

NEW YORK: Days suitable for fieldwork 4.9. Soil moisture 18% short, 78% adequate, 4% surplus. Pasture feed 26% fair, 74% good. Wheat 100% good. Wheat headed, oats maturing rapidly. Corn 93% planted, 81% 1997, 83% avg. Soybeans 81% planted, 35% 1997. Dry beans 42%

planted, 7% 1997, 19% avg. Hay 9% fair, 82% good, 9% excellent. Hay harvest in full swing. Alfalfa 1st cutting 57% complete, 17% 1997, 19% avg. Clo-tim 47% cut, 11% 1997, 13% avg. Rain, warm temperatures need for regrowth. Potato crop emerged with some spraying occurring. Hail damage reported to apples. Those blocks not hit were in good condition. Early frost damage evident in apples, sweet cherries. Grape bloom in Finger Lakes reported on early varieties, Concords. The major vegetable-producing Orange County muck area was hard hit by hail, heavy rain. Onion, lettuce crops damaged. Strawberry picking is underway. Vegetables in western counties are in good condition.

NORTH CAROLINA: Days suitable for fieldwork 5.7. Soil moisture 15% short, 70% adequate, 15% surplus. On 4th a strong system packing severe weather, with large-sized hail rumbled across the State resulting in isolated crop damage. Along with the thunder, lightning came much-needed rainfall for portions of the State. However, several areas still need rain. This week supplied the weather necessary for farmers to catch up on peanut plantings, harvesting of small grains, while a substantial portion of the cotton began to square. Burley tobacco planting still remains significantly behind the 5-year average. Other activities for the week included: Harvesting vegetable crops, potatoes; planting sorghum; transplanting sweet potatoes; cutting hay, tending livestock; repairing equipment.

NORTH DAKOTA: Days suitable for fieldwork 6. Topsoil 16% very short, 33% short, 49% adequate, 2% surplus. Subsoil 12% very short, 22% short, 63% adequate, 3% surplus. Dry soil conditions continue to hinder crop potential, pasture growth in west, south-central districts. Below-normal temperatures slowed crop development, still ahead of 5-year avg. Alfalfa crop in western half hit hardest by frost damage while durum wheat also damaged in north-central, west-central districts. North, reseeding of late season crops due to hail, frost, wind, insect damage. Small grain development remained ahead of 1997 and average. Durum wheat was 99% planted, 97% 1997, 93% avg.; 95% emerged, 72% 1997, 74% avg.; 8% jointing, 1% 1997, 5% avg.; 2% boot, 0% 1997, 0% avg. Canola 100% planted, 98% 1997; 95% emerged, 66% 1997; 26% rosette, 0% 1997. Corn 98% planted, 97% 1997, 94% avg.; 89% emerged, 80% 1997, 73% avg. Dry edible beans 96% planted, 91% 1997, 86% avg.; 69% emerged, 48% 1997, 48% avg. Flaxseed 99% planted, 90% 1997, 80% avg.; 90% emerged, 57% 1997, 51% avg. Potatoes 100% planted, 95% 1997, 97% avg.; 79% emerged, 43% 1997, 41% avg. Soybeans 96% planted, 92% 1997, 87% avg.; 83% emerged, 56% 1997, 55% avg. Sunflower 94% planted, 82% 1997, 77% avg.; 64% emerged, 41% 1997, 37% avg. Emerged crop condition: Durum 2% very poor, 11% poor, 36% fair, 48% good, 3% excellent; canola 3% very poor, 5% poor, 20% fair, 53% good, 19% excellent; corn 2% very poor, 6% poor, 23% fair, 53% good, 16% excellent; dry edible beans 8% very poor, 7% poor, 18% fair, 50% good, 17% excellent; flaxseed 3% very poor, 7% poor, 25% fair, 55% good, 10% excellent; potatoes 0% very poor, 1% poor, 17% fair, 55% good, 27% excellent; soybeans 4% very poor, 7% poor, 16% fair, 64% good, 9% excellent; sugar beets 1% very poor, 4% poor, 7% fair, 55% good, 33% excellent; sunflower 2% very poor, 5% poor, 20% fair, 56% good, 17% excellent. Height of late season crops ahead of 1997 and average. Stock water 9% short, 89% adequate, 2% surplus. Broadleaf, wild oat spraying 50%, 65% complete, respectively. Pasture conditions declined due to freezing temperatures, dry conditions. Hay condition 67% of normal.

OHIO: Days suitable for fieldwork 5.9. Topsoil 10% very short, 26% short, 57% adequate, 7% surplus. Northern producers commented on the lack of moisture, how it hindered the effectiveness of herbicides. Some growers have stopped planting due to dry conditions. Southwestern part some rain this past week was keeping some growers out of the field while others were working the ground trying to dry it out. There were some reports of minor crop damage due to hail, high winds, tornadoes. Corn emerged 12 percentage points ahead avg. Soybeans planted 14 days ahead of avg.; emerged 11 percentage points above the avg. Winter wheat 25% turning color, 1% 1997, 4% avg.; starting to ripen. Oats 33% headed, 3% 1997, 11% avg.; 1% ripe, 0% 1997. Alfalfa hay 75% 1st cutting, 12% 1997, 42% avg. Other hay 59% 1st cutting, 7% 1997, 27% avg. Tobacco 38% transplanted. Processing tomatoes 97% transplanted, 51% 1997, 76% avg. Hay 1% very poor, 6% poor, 17% fair, 55% good, 21% excellent. Activities: Scouting fields; applying anhydrous ammonia, side dressing corn; spreading lime; hauling, spreading manure; applying pesticides, herbicides; seeding CRP; mowing hay for haylage, filling silos; raking, baling hay dry, high moisture hay; cutting ditch banks, CRP; cultivating, rotary hoeing corn; replanting some corn, soybeans; planting sweet corn, vegetable crops; repairing machinery; building grain bins. Weed pressures: Canadian thistles; common, giant ragweed; milkweed; other grass, broadleaf weeds. Insects:

Grubs, flea beetles, cutworm, slugs, wireworm in corn; European corn borer in sweet corn; bean leaf beetles, slugs in soybeans; alfalfa weevil, army worm, potato leafhopper in alfalfa; Colorado potato beetle in potatoes; aphids, mosquitos, carpenter bees. Diseases: pythium stalk rot in corn; powdery mildew, septoria, some other rusts, funguses in wheat; mold in strawberries; blue mold, target spot in tobacco; black rot in cabbage. Powdery mildew was also noticed on a variety of fruit crops in the North Central district.

OKLAHOMA: Days suitable for fieldwork 6.5. Topsoil 11% very short, 55% short, 34% adequate. Subsoil 6% very short, 32% short, 62% adequate. Dry weather permitted widespread wheat harvest, hindered row crop development. Wheat 85% soft dough, 76% 1997, 80% avg. Oats 65% soft dough, 69% 1997, 66% avg.; 17% harvested, 0% 1997, 7% avg. Corn 7% fair, 93% good; 3% tasseled, 0% 1997, 5% avg. Sorghum 87% seedbed prepared, 83% 1997, 89% avg.; 14% up-to-stand, 14% 1997, 28% avg. Soybeans 95% seedbed prepared, 99% 1997, 89% avg.; 64% planted, 64% 1997, 57% avg.; 35% up-to-stand, 44% 1997, 38% avg. Peanuts 76% up-to-stand, 58% 1997, 52% avg. Cotton 67% up-to-stand, 51% 1997, 51% avg. Alfalfa hay 1% very poor, 4% poor, 23% fair, 56% good, 16% excellent; 98% 1st cutting, 96% 1997, 92% avg.; 33% 2nd cutting, 13% 1997, 12% avg. Other hay 46% 1st cutting, 48% 1997, 51% avg.

OREGON: Days suitable for fieldwork 5.1. Topsoil 1% short, 91% adequate, 8% surplus. Subsoil 1% short, 81% adequate, 18% surplus. Winter wheat 5% fair, 57% good, 38% excellent; headed 73%, 79% 1997, 83% avg. Range, pasture feed 6% fair, 43% good, 51% excellent. Activities: Weather warmer, but wet conditions plagued field crops. Fields being worked after heavy rains and grain greener with warmer weather. On east side, rain damaged hay in some areas. Most hay rain damaged in Northeast and Malheur County first cuttings black from rain. Other eastern counties report hay growth normal. Sugar beets looked good, rows covered in most fields and wheat crop looked good. Willamette Valley growers busy cutting hay; some baled, drying slow. Wheat growers dealing with early lodging by spraying with tilt to prevent germination problems. Grass and sugarbeet seed looked good and field corn greening up. Nurseries busy with tree balling, transporting, and container work. Irrigation required in container yards. Bugs on Christmas trees increasing and spraying underway. Warmer, drier weather restarted vegetable planting schedules. North Willamette vegetable growers caught up planting corn and green beans. Considerable transplanting of fresh market crops. Wet weather continued to hamper normal growth rates. Bush beans growing well as rotation planting resumed. On the eastside, potato planting delayed due to saturated soil. Malheur County reported potato fields halfway to row closure. Potatoes with 6-inch growth being treated with herbicides. In Northeast, green peas being harvested and sweet corn plantings near completion. Willamette Valley strawberry harvest started and caneberries started to show. Apples and peaches being thinned and control sprays being applied to sweet and tart cherries. Grapes began rapid growth. Hazelnut growers sprayed for suckers and applied boron. Rogue River Valley strawberries ripening, and growers trying to complete first cover sprays and start second. South coast cranberries blooming. Hood River Valley Bartlett Pears being thinned in lower valley. Mid-Columbia Bassin cherries ripening quickly and 99% of the crop completely escaped damage from hail storm. Livestock good to excellent. Western pastures good grass growth and good soil moisture, some bottom lands remained muddy. Willamette Valley sheep growers shearing. Southeast cattlemen branding and moving herds. Rains delayed grass growth on mountain ranges.

PENNSYLVANIA: Days suitable for fieldwork 5.3. Soil moisture 7% very short, 38% short, 50% adequate, 5% surplus. Good week for fieldwork. Corn height 6 in., 4 in. 1997. Tobacco transplanted 75% complete, 33% 1997, 35% avg. Soybeans planted 67% complete, 75% 1997, 70% avg.; 2% poor, 22% fair, 70% good, 6% excellent. Potatoes planted 90% complete, 88% 1997, 89% avg. Barley 75% turning yellow, 35% 1997, 30% avg; 30% ripe, 0% 1997, 0% avg. Wheat 22% turning yellow, 0% 1997, 4% avg. Oats 8% heading or headed, 4% 1997; 6% poor, 30% fair, 52% good, 12% excellent. Alfalfa 1st cutting 73% complete, 49% 1997, 47% avg. Timothy clover 1st cutting 36% complete, 14% 1997, 21% avg. Quality of hay made 4% poor, 13% fair, 60% good, 23% excellent. Peach 15% fair, 50% good, 35% excellent. Apple 2% poor, 13% fair, 50% good, 35% excellent. Activities: Planting oats, corn, soybeans; cutting hay; hauling trash; spraying pesticides; machinery maintenance; hauling manure; caring for livestock.

SOUTH CAROLINA: Days suitable for fieldwork 5.5. Soil moisture 8% very short, 25% short, 64% adequate, 3% surplus. Apples 13% poor, 35% fair, 49% good, 3% excellent. Barley 98% turned color, 100% 1997, 92%

avg.; 81% ripe, 95% 1997, 73% avg.; 52% harvested, 52% 1997, 38% avg.; 1% poor, 37% fair, 53% good, 9% excellent. Cantaloupes 16% poor, 42% fair, 36% good, 6% excellent. Cucumbers 28% harvested, 34% 1997, 30% avg. Hay 97% harvested, 97% 1997, 91% avg.; 4% poor, 23% fair, 65% good, 8% excellent. Oats 98% turned color, 100% 1997, 97% avg.; 87% ripe, 87% 1997, 83% avg.; 52% harvested, 58% 1997, 47% avg.; 2% very poor, 8% poor, 36% fair, 50% good, 4% excellent. Peaches 14% harvested, 20% 1997, 10% avg.; 1% very poor, 3% poor, 20% fair, 67% good, 9% excellent. Rye 98% turned color, 99% 1997, 96% avg.; 85% ripe, 89% 1997, 79% avg.; 63% harvested, 58% 1997, 37% avg.; 2% very poor, 8% poor, 29% fair, 58% good, 3% excellent. Snap beans 98% planted, 94% 1997, 90% avg.; 8% fair, 61% good, 31% excellent. Sorghum 63% planted, 58% 1997, 52% avg.; 2% fair, 42% good, 56% excellent. Tobacco 5% poor, 13% fair, 72% good, 10% excellent. Tomatoes 30% fair, 50% good, 20% excellent. Watermelons 100% planted, 100% 1997, 98% avg.; 1% very poor, 10% poor, 45% fair, 40% good, 4% excellent. Winter wheat 99% turned color, 99% 1997, 99% avg.; 81% ripe, 67% 1997, 81% avg.; 37% harvested, 20% 1997, 29% avg.; 5% very poor, 14% poor, 39% fair, 38% good, 4% excellent.

SOUTH DAKOTA: Days suitable for fieldwork 4.6. Topsoil 4% very short, 20% short, 65% adequate, 11% surplus. Subsoil 4% very short, 10% short, 69% adequate, 17% surplus. Good progress made planting row crops, well ahead of the 5-year average. Winter wheat 94% boot, 54% 1997, 63% avg. Winter wheat 50% headed, 11% 1997, 28% avg. Winter rye 91% boot, 69% 1997, 71% avg. Winter rye 66% headed, 30% 1997, 39% avg. Spring wheat 53% boot, 5% 1997, 13% avg. Oats 48% boot, 11% 1997, 15% avg. Sunflower 71% seeded, 40% 1997, 48% avg. Flaxseed 99% seeded, 88% 1997, 74% avg. Soybeans 91% seeded, 75% 1997, 61% avg. Soybeans 76% emerged. Alfalfa 3% very poor, 14% poor, 21% fair, 50% good, 12% excellent. Alfalfa 30% cut, 4% 1997, 10% avg. Corn 26% cultivated, 7 in. tall avg. Livestock 7% fair, 70% good, 23% excellent. Producers have moved 95% of the cattle to pasture. Feed supplies 1% very short, 5% short, 79% adequate, 15% surplus. Stock water supplies 1% very short, 4% short, 77% adequate, 18% surplus.

TENNESSEE: Days suitable for fieldwork 4.0. Topsoil 2% short, 54% adequate, 44% surplus. Subsoil 1% short, 64% adequate, 35% surplus. Corn 3% poor, 21% fair, 50% good, 26% excellent. Tobacco 60% transplanted, 53% 1997, 73% avg.; 2% poor, 31% fair, 61% good, 6% excellent. Wheat 98% turning color, 78% 1997, 88% avg.; 60% ripe, 9% 1997, 25% avg.; 3% harvested, 3% avg. Alfalfa 97% 1st cutting completed, 76% 1997, 90% avg.; 2% poor, 20% fair, 66% good, 12% excellent. Other hay 82% 1st cutting completed; 2% poor, 20% fair, 65% good, 13% excellent. Pastures 1% poor, 17% fair, 65% good, 17% excellent. Cattle 14% fair, 69% good, 17% excellent. Scattered wheat harvest began last week in certain localities before heavy rains late in the week slowed combining. Rainfall across the State on June 4th, 5th prevented most field activities. In addition, certain areas received flash flooding. Early summer vegetable planting was held back in eastern areas due to rainfall.

TEXAS: Hot, dry conditions continued throughout State until late week cool front moved through bringing considerably cooler temperatures, much-needed rain in some areas. Even though rain helpful, more needed as crops enter pollination stage, which is heavy water need stage. Irrigation operations remained active. Ranges, pastures continued to show little or no growth. However, late-week rainfall brought some hope. Haying operations slow to this point, a shortage will be a real possibility as summer begins. Livestock conditions holding steady, with many ranchers already feeding hay and supplements.

Crops: Corn fields in High Plains look good but high temperatures have been hard on crop. Planting virtually completed during week. Fields need rain Blacklands even though some fields got late-week rain. Many in critical stage. Some fields baled in the Central as prospects for grain poor. High nitrate levels were concern. Fields dough stage along Upper Coast, Coastal Bend where rain needed. Fields in dent stage South, Rio Grande Valley where some fields may be lost due to extremely dry conditions. 43% silked, 18% 1997, 33% avg. 14% dough, 4% 1997, 10% avg. Cotton hot, dry conditions in Plains continued to slow planting on dryland fields. Some producers planted to meet insurance guidelines. Plants squaring in Blacklands, Central. Some shedding occurred because of dry conditions. Bolls setting in Coastal Bend, Rio Grande Valley where dry conditions have caused problems. Cotton 8% setting bolls, 1% 1997, 4% avg. Grain Sorghum: Many dryland fields remained to be planted in Plains as dry conditions slowed progress. Dry conditions slowed growth in many other areas. Plants heading Central, Southern areas. Fields in Rio Grande Valley rapidly maturing under hot, dry conditions. Grain sorghum 64% normal

compared, 88% 1997; 34% heading, 17% 1997, 32% avg.; 8% turning color, 1% 1997, 10% avg. Peanuts: Planting on irrigated fields increased slowly in south-central areas. Rain needed in many dryland fields across State for planting to increase. Peanuts 70% normal, 83% 1997. Rice: high water demands continued on fields along Upper Coast. Disease problems have been light due to dry conditions. Soybeans: Fields beginning to bloom in northern Blacklands, where most fields need rain. Along Upper Coast, planting operations remained slow due to dry conditions. Small Grains: Harvest got underway in the High Plains on few fields, with remainder of the fields rapidly maturing. Harvest continued in Low Plains, Northern Blacklands where yields have been good. Most harvest completed Central, Southern areas. Twenty-eight percent harvested, 8% 1997, 17% avg. Other Crops: Sunflowers 59% planted, 44% 1997, 54% avg. Oats 46% harvested, 30% 1997, 35% avg.

Commercial Vegetables: Rio Grande Valley, melon production continued good despite dry conditions. San Antonio-Winter Garden, harvest of irrigated watermelons continued with good volume reported. Dry conditions slowed production other vegetables. East, harvest of vegetables continued. Sweetpotatoes continued to need rain. High Plains, onions beginning show signs of dry conditions. Producers struggling to keep enough water on fields. Trans Pecos, high winds continued to cause problems to cantaloupe plants. Peaches: Harvest continued in the east, where quality good. However, volume may be down. Hill Country peaches continued show good quality also. Pecans: Many producers reporting nut drop due dry conditions. Irrigation steady where available. Casebearer populations heavy some areas. Spraying continued many groves.

Range and Livestock: Haying operations remained slow, behind schedule in most areas, which could cause shortage. Range, pastures that received late-week rain showed some increased greening. However, growth remained short. Livestock conditions remained steady, but many producers feeding hay, supplements. Markets on calves continued down as producers sell due to dry conditions.

UTAH: Days suitable for fieldwork 6. Topsoil 8% short, 83% adequate, 9% surplus. Subsoil 10% short, 83% adequate, 7% surplus. Pasture feed, range 3% poor, 17% fair, 72% good, 8% excellent. Winter wheat headed 40%, 63% 1997, 54% avg. Spring wheat headed 13%. Oats emerged 88%, 96% 1997, 90% avg.; headed 3%. Corn emerged 82%; height 4.5 in., 5 in. 1997, 4 in. avg. Dry beans planted 60%, 80% 1997. Alfalfa hay 1st cutting 30%, 30% 1997, 34% avg. Alfalfa height 23 in., 23 in. 1997, 20 in. avg. Barley headed 21%. Other hay cut 5%, 5% 1997, 11% avg. Sheep moved to summer range 61%, 63% 1997, 68% avg. Cattle/calves moved to summer range 71%, 75% 1997, 74% avg. Major farm, ranch activities were: Irrigating, spraying for weevil. Heavy rain in many counties on 4th halted alfalfa cutting.

VIRGINIA: Days suitable for fieldwork 5.5. Topsoil 26% short, 65% adequate, 9% surplus. Subsoil 8% short, 83% adequate, 9% surplus. Corn 95% planted, 95% 1997, 96% avg.; 88% emerged; 1% poor, 12% fair, 68% good, 19% excellent. Cotton 1% poor, 17% fair, 67% good, 15% excellent. Peanuts 99% planted, 100% 1997, 100% avg.; 5% fair, 60% good, 35% excellent. Soybeans 42% planted, 41% 1997, 42% avg. Flue-cured tobacco 98% transplanted, 95% 1997, 97% avg.; 3% fair, 64% good, 33% excellent. Dark fire cured tobacco 88% transplanted, 93% 1997, 91% avg.; 9% fair, 50% good, 41% excellent. Burley tobacco 65% transplanted, 54% 1997, 64% avg.; 10% fair, 64% good, 26% excellent. Sun Tobacco 90% transplanted, 97% 1997, 90% avg. Winter wheat 3% very poor, 8% poor, 21% fair, 66% good, 12% excellent. Barley 15% harvested, 1% 1997, 10% avg.; 2% very poor, 6% poor, 25% fair, 57% good, 10% excellent. Summer potatoes 3% poor, 20% fair, 58% good, 19% excellent. Apples 9% fair, 75% good, 16% excellent. Peaches 8% fair, 77% good, 15% excellent. Pasture 2% poor, 15% fair, 67% good, 16% excellent. Alfalfa 9% fair, 69% good, 22% excellent. Other hay 1% poor, 11% fair, 68% good, 20% excellent. Some areas are starting to dry out. However, moisture supply levels remain surplus in other isolated localities around the State. Many western, southwestern localities received as much as 3 inches of rainfall last week, while other areas received a trace. Some northern localities reported crop, potential fruit damage due to wind, hail storms. Other localities throughout the State reported weather conditions ideal for planting, harvesting. A few isolated areas are reporting delays in soybean planting due to lack of precipitation. Small grain harvesting was underway, with mostly average yields. Some barley, wheat acres intended for grain were harvested for hay due to previous adverse weather conditions. Blue mold was detected in several burley tobacco fields as conditions were ideal for infestation. Other farming activities included vegetable cultivation, scouting, spraying potatoes, herbicide application, spraying orchards for insects.

WASHINGTON: Days suitable for fieldwork 5.9. Topsoil 11% short, 87% adequate, 2% surplus. Subsoil 14% short, 86% adequate. Winter wheat 90% headed, 68% 1997, 67% avg.; dryland 5% poor, 25% fair, 55% good, 15% excellent; irrigated 95% good, 5% excellent. Spring wheat 20% headed, 15% 1997, 25% avg. Spring wheat, dryland 18% fair, 52% good, 30% excellent. Irrigated 95% good, 5% excellent. Barley 100% emerged, 99% 1997, 98% avg.; 22% headed, 23% 1997, 27% avg. Barley dryland, 29% fair, 44% good, 27% excellent; irrigated 95% good, 5% excellent. Most winter wheat was headed out, spring wheat, barley finished stem elongation, started head emergence, flowering. Timely precipitation has benefited field crops over the past several weeks. Potatoes 100% emerged, 98% 1997, 97% avg. Hay, other roughage supplies, 80% adequate, 20% surplus. Producers were busy with 1st cutting alfalfa hay production. Range, pasture feed 5% poor, 10% fair, 60% good, 25% excellent. Some range grass began to dry down, overall, pastures were in very good condition. Producers, in western areas, reported misshaped, medium-sized fruit due to poor pollination conditions. Minimal damage to fruit was reported from recent rain showers, disease pressures remained high. Apples and pears were being hand thinned, cherry harvest will soon be underway. Vegetable planting continued and growers were irrigating due to the recent warm weather. Leaf lettuce harvest was underway, rhubarb harvest continued, early strawberry harvest began. Heavy rains forced some cucumber producers to replant. Asparagus harvest slowed after a disappointing season for some producers.

WEST VIRGINIA: Days suitable for fieldwork 4.4. Intended acreage prepared for spring planting 95%, 99% 1997, 95% avg. Topsoil 6% short, 88% adequate, 6% surplus. Wheat 20% fair, 38% good, 42% excellent; headed 89%, 87% 1997, 87% avg. Apple 16% poor, 84% fair. Peach 17% poor, 65% fair, 18% good. Hay 4% poor, 19% fair, 59% good, 18% excellent; 1st cut 38%, 9% 1997, 29% avg. Corn 26% fair, 72% good, 2% excellent. Corn planted 85%, 93% 1997, 88% avg. Oats 31% fair, 54% good, 15% excellent; 95% planted, 99% 1997, 97% avg.; 81% emerged, 81% 1997, 90% avg. Soybeans planted 64%, 81% 1997, 61% avg. Tobacco transplanted 55%, 49% 1997, 63% avg. Cattle 13% fair, 77% good, 10% excellent. Sheep 10% fair, 82% good, 8% excellent. Activities: Included planting corn, oats, soybeans; transplanting tobacco, cutting hay. Overall, good progress was made in planting, transplanting tobacco, hay harvest, despite storms early in the week in the southern area.

WISCONSIN: Days suitable for fieldwork 5.4. Soil moisture 4% very short, 24% short, 67% adequate, 5% surplus. Soybeans emerged 89% complete. Soybean growth slowed due to the cool weather. Light frosts were reported in the northwest, west-central counties, but the frost produced little damage. Soybean 2% poor, 17% fair, 56% good, 25% excellent. Despite the cool weather, hay harvested climbed to 73%, 10 1997, 15% avg. Alfalfa weevil larvae populations were reported in many counties. Manitowoc County reported 10 out of 12 fields with alfalfa weevils in them. Winter wheat 2% poor, 14% fair, 62% good, 22% excellent. Rye has been harvested, straw dried for ginseng mulch, according to a reporter in Marathon County. Vernon county reporter indicated about 40% of the tobacco was planted. Many reporters noted strawberries were earlier than normal this year. Pasture feed 2% very poor, 7% poor, 25% fair, 48% good, 18% excellent.

WYOMING: Days suitable for fieldwork 2.9. Topsoil 3% very short, 16% short, 66% adequate, 15% surplus. Subsoil 3% very short, 33% short, 60% adequate, 4% surplus. Winter wheat headed 46%, 66% 1997, 38% avg. Barley emerged 88%, 93% 1997, 91% avg.; jointed 52%, 69% 1997, 56% avg.; boot 24%, 18% 1997, 18% avg.; headed 5%, 1% 1997, 4% avg. Oats planted 99%, 98% 1997, 97% avg.; emerged 81%, 86% 1997, 85% avg.; jointed 45%, 42% 1997, 31% avg.; boot 26%, 10% 1997, 8% avg.; headed 1%, 3% 1997, 1% avg. Spring wheat planted 98%, 99% 1997, 96% avg.; emerged 82%, 86% 1997, 85% avg.; jointed 64%, 45% 1997, 33% avg.; boot 29%, 13% 1997, 23% avg.; headed 4%, 5% 1997, 1% avg. Sugar beets thinned 17%, 8% 1997, 27% avg. Corn avg. height emerged 90%, 93% 1997, 83% avg.; single 5 in. Dry beans planted 91%, 87% 1997, 70% avg.; emerged 56%, 37% 1997, 31% avg. Alfalfa 1st cutting 3%, 2% avg. Range flock ewes lambbed 88%, 88% 1997, 89% avg. Range, pasture feed 4% very poor, 12% poor, 31% fair, 43% good, 10% excellent. Stock water 2% very short, 13% short, 82% adequate, 3% surplus. Calf 11% fair, 75% good, 14% excellent. Cattle 1% poor, 12% fair, 74% good, 13% excellent. Lamb 2% poor, 12% fair, 81% good, 5% excellent. Sheep 1% poor, 5% fair, 89% good, 5% excellent.

International Weather and Crop Summary

May 31 - June 6, 1998

HIGHLIGHTS

FSU-WESTERN: Scattered showers maintained favorable moisture conditions for crop development in Ukraine, while a drying trend in important spring grain-producing areas in the Volga Valley allowed planting to rapidly advance.

FSU-NEW LANDS: Although dry weather favored rapid planting progress, continued hot weather reduced topsoil moisture needed for germination.

EUROPE: Widespread rain and mild weather benefited filling winter grains and spring-sown crops in the west and north, while hot, dry weather favored winter grain maturation and early harvesting in Italy.

AUSTRALIA: Showers benefited emerging winter grains in the west and southeast.

CANADA: Cold, dry weather dominated the Prairies, stifling early crop development and possibly causing localized damage.

SOUTH ASIA: The monsoon was developing over southern India about on schedule.

SOUTHEAST ASIA: Sparse rainfall limited moisture for coffee and rice across southern Vietnam, while unseasonably heavy rains boosted moisture for second-season rice in Java.

EASTERN ASIA: Widespread rain benefited summer crops across the North China Plain, but slowed winter wheat maturation and harvesting.

SOUTH AMERICA: Dry weather favored summer crop harvesting across central Argentina and southern Brazil.

MEXICO: Showers eased dryness across southeastern Mexico and Central America, increasing soil moisture for corn and coffee.

May 1998

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

*** DATA NOT AVAILABLE

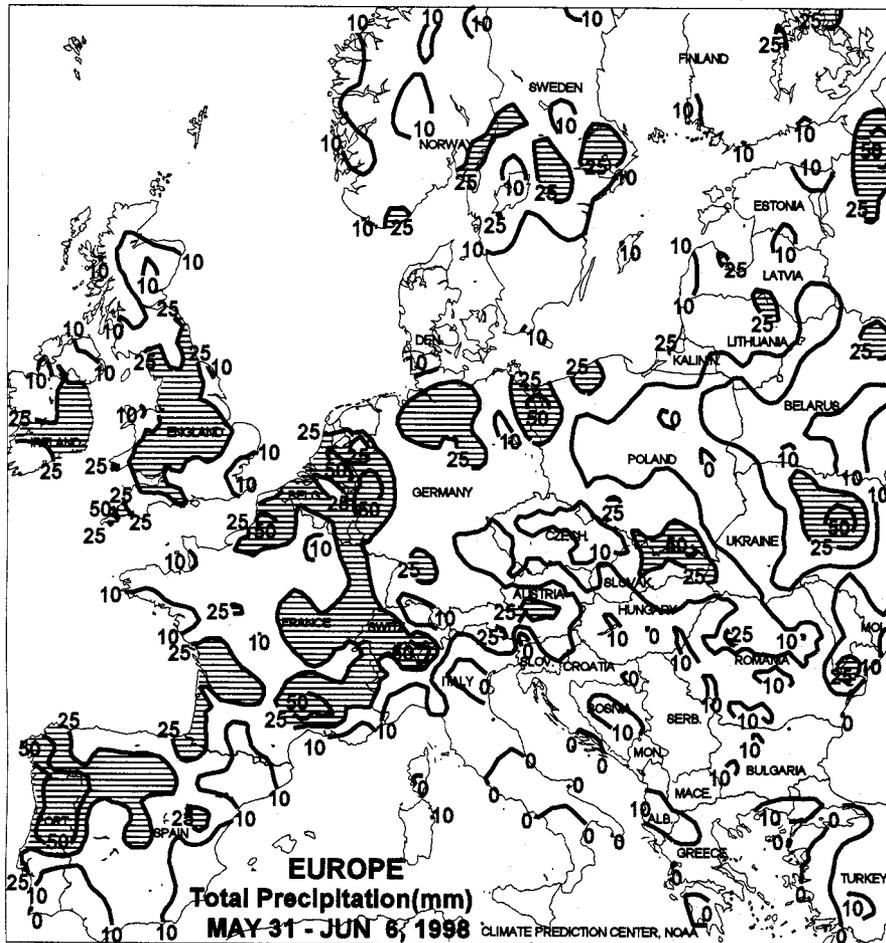
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	16	5	24	1	11	1.3	11	-50
SWEDEN	STOCKHOLM	16	5	24	0	10	-0.1	0	-30
FINLAND	HELSINKI	16	5	24	1	10	0.5	50	16
UKINGDO	GLASGOW	16	7	23	-1	11	0.1	53	-18
	EDINBURGH	15	7	20	-1	11	0.8	77	26
	LONDON	19	9	26	0	14	2.8	25	-30
IRELAND	DUBLIN	16	7	22	2	12	0.9	26	-29
ICELAND	REYKJAVIK	9	5	15	-3	7	0.6	83	39
DENMARK	COPENHAGEN	17	8	24	3	12	0.4	42	0
LUXEMBO	LUXEMBOURG	20	10	30	3	15	2.9	44	-31
SWITZERL	ZURICH	20	10	29	3	15	2.7	15	-91
	GENEVA	22	10	28	4	16	3.0	25	-49
FRANCE	PARIS/ORLY	21	11	31	5	16	***	23	**
	STRASBOURG	22	11	30	3	16	2.5	56	-21
	BOURGES	21	10	28	3	16	2.3	57	-24
	BORDEAUX	23	12	31	5	17	3.0	23	-54
	TOULOUSE	22	12	28	5	17	2.4	38	-35
	MARSEILLE	24	14	29	8	19	1.7	41	-1
SPAIN	VALLADOLID	21	8	27	1	14	0.6	55	8
	MADRID	21	10	28	2	15	-1.1	59	19
	SEVILLE	25	15	32	10	20	-0.1	72	33
PORTUGA	LISBON	21	13	26	9	17	-0.4	106	64
GERMANY	HAMBURG	19	9	28	3	14	1.6	23	-34
	BERLIN	21	10	30	5	16	1.6	36	-18
	DUSSELDORF	21	10	32	3	15	1.5	40	-20
	LEIPZIG	20	9	29	4	15	2.0	11	-40
	DRESDEN	20	10	29	4	15	1.5	30	-33
	STUTTGART	20	9	28	2	14	1.7	34	-45
	NURNBERG	20	8	29	2	14	1.0	17	-48
AUSTRIA	VIENNA	21	10	27	6	15	0.2	48	-14
	INNSBRUCK	21	9	30	5	15	1.6	23	-69
CZECHRE	PRAGUE	19	8	28	3	14	0.9	21	-58
POLAND	WARSAW	20	9	28	3	14	0.9	45	-12
	LODZ	19	9	27	3	14	1.1	54	3
	KATOWICE	20	8	28	2	14	1.2	39	-29
	PRZEMYSL	18	8	27	1	13	0.0	63	-13
HUNGARY	BUDAPEST	20	11	29	4	16	-0.3	99	35
YUGOSLA	BELGRADE	22	12	29	7	17	-0.4	45	-27
ROMANIA	BUCHAREST	22	10	29	4	16	-0.3	65	-7
BULGARIA	SOFIA	19	10	25	6	15	0.0	57	-18
ITALY	MILAN	25	14	32	9	19	2.6	85	-11
	VERONA	23	14	31	9	18	1.4	57	-28
	VENICE	22	14	28	10	18	1.2	44	-22
	GENOA	22	16	30	10	19	1.6	115	7
	ROME	23	13	29	10	18	0.4	0	-34
	NAPLES	23	14	29	10	18	0.8	93	41
GREECE	THESSALONIKA	23	14	28	9	19	-0.8	76	30
	LARISSA	24	13	29	8	18	-1.3	146	109
	ATHENS	23	16	27	11	20	-0.8	11	-12
TURKEY	ISTANBUL	20	13	25	11	17	1.1	92	62
	ANKARA	21	9	27	4	15	-1.8	64	22
CYPRUS	LARNACA	26	16	33	12	21	0.9	13	2
ESTONIA	TALLINN	15	5	22	1	10	0.1	60	26
LITHUANI	KAUNAS	19	8	26	0	13	0.8	37	-18
BELARUS	MINSK	18	8	25	2	13	0.2	111	51
RUSSIA	KAZAN	19	7	28	-4	13	-0.1	64	29
	MOSCOW	19	9	25	4	14	0.7	105	51
	YEKATERINBURG	17	7	29	-3	12	1.1	60	16
	OMSK	18	6	31	-3	12	0.0	40	7
	NOVOSIBIRSK	16	6	28	-5	11	1.5	59	26
	BARNAUL	18	6	30	-5	12	0.4	69	31
	KHABAROVSK	20	8	31	0	14	2.1	103	45
	VLADIVOSTOK	16	8	24	3	12	2.5	148	79
	SARATOV	20	11	29	2	16	0.9	15	-35
	VOLGOGRAD	21	10	32	2	16	-1.1	20	-12
	ASTRAKHAN	24	12	33	4	18	-0.5	14	-10
	KRASNODAR	23	13	30	7	18	0.9	101	38
	ORENBURG	22	8	32	-3	15	-0.5	7	-22
KAZAKHS	TSELINOGRAD	20	7	31	-7	13	0.3	55	22
	KARAGANDA	18	7	28	-4	13	-0.5	100	64

Based on Preliminary Reports

May 1998

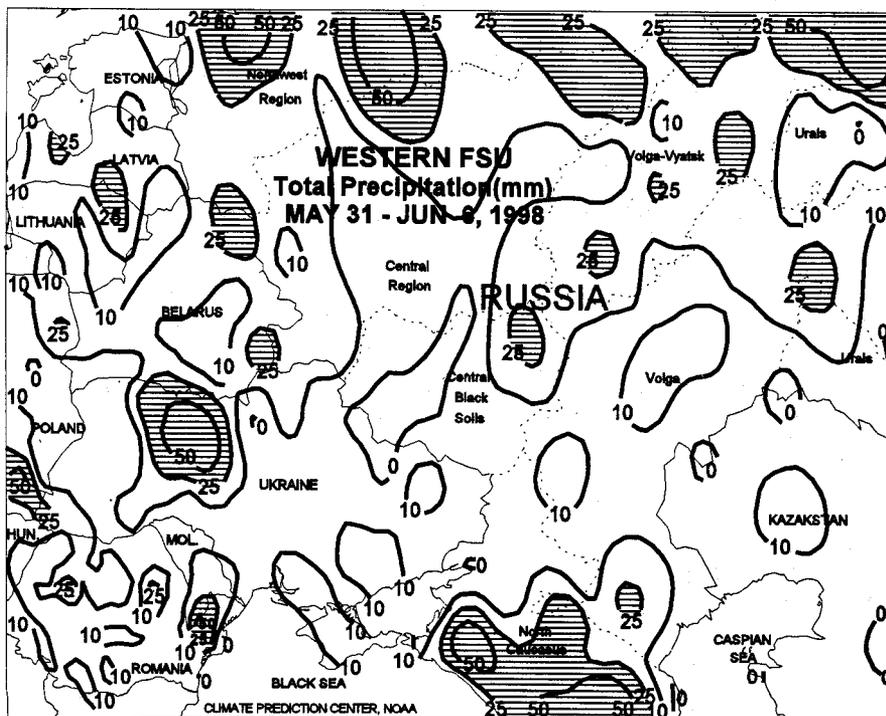
COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)		COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)			
	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL		DPART F/NRM	AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
GEORGIA TBILISI	24	14	29	4	19	1.9	103	25									
UZBEKIST TASHKENT	25	13	34	3	19	-1.6	94	62	S AFRICA PRETORIA	23	8	31	4	15	1.0	0	-13
TURKMENI ASHKHABAD	28	16	37	8	22	-1.0	69	41	JOHANNESBURG	20	5	26	-23	12	-0.3	0	-13
SYRIA DAMASCUS	30	12	37	4	21	0.8	0	-5	BETHAL	20	2	27	-5	11	-0.4	0	-19
ISRAEL JERUSALEM	26	14	35	9	20	0.6	0	-4	DURBAN	24	14	31	8	19	-0.2	53	-9
PAKISTAN KARACHI	36	28	42	20	32	1.2	0	0	CAPE TOWN	20	10	30	5	15	0.7	111	43
INDIA AMRITSAR	40	23	47	16	31	1.7	0	-19	CANADA TORONTO	23	12	31	6	17	4.7	73	7
NEW DELHI	41	28	47	20	34	1.4	9	-15	MONTREAL	23	12	31	5	18	4.6	49	-19
AHMEDABAD	43	28	46	23	36	1.6	0	-15	WINNIPEG	20	5	28	-1	12	0.8	106	46
INDORE	42	26	45	22	34	1.7	10	-8	REGINA	21	4	31	-4	13	1.1	67	16
CALCUTTA	36	26	39	22	31	-0.2	59	-23	SASKATOON	22	5	29	-8	13	1.6	9	-35
VERAVAL	33	27	40	24	30	1.4	0	-2	LETHBRIDGE	21	4	28	-3	13	1.4	66	15
BOMBAY	35	28	38	26	31	1.7	0	-20	CALGARY	19	5	26	0	12	2.5	86	34
POONA	38	24	42	14	31	1.2	21	-23	EDMONTON	22	9	27	2	15	3.6	37	-7
BEGAMPET	40	28	44	24	34	1.4	18	-16	VANCOUVER	17	10	22	6	13	1.3	109	47
VISHAKHAPATNAM	33	28	39	26	31	***	44	**	MEXICO GUADALAJARA	**	**	29	11	**	***	**	**
MADRAS	38	29	44	26	33	0.5	33	4	MEXICO CITY	29	16	33	12	22	4.1	0	-52
MANGALORE	35	27	38	24	31	1.9	60	-173	ACAPULCO	31	23	34	19	27	-1.5	0	-21
HONGKO KINGS PEAK	29	24	31	20	26	***	327	**	BERMUDA ST. GEORGES	24	20	26	16	22	0.0	93	-9
N KOREA PYONGYANG	21	11	28	5	**	***	64	-13	BAHAMAS NASSAU	31	23	35	19	27	1.5	26	-87
S KOREA SEOUL	24	14	31	11	19	2.9	121	35	JAMAICA KINGSTON	33	26	35	23	29	1.5	9	-59
JAPAN SAPPORO	19	9	28	2	14	2.0	61	6	P RICO SAN JUAN	31	24	34	22	28	0.3	93	-51
NAGOYA	25	17	30	13	21	2.4	282	124	GUADELO RAIZET	32	25	33	22	28	1.6	53	-46
TOKYO	24	17	29	11	21	2.3	149	10	MARTINIQU LAMENTIN	31	25	33	21	28	1.8	158	43
YOKOHAMA	24	17	29	11	20	2.5	210	46	BARBADO BRIDGETOWN	30	26	31	23	28	0.7	149	97
KYOTO	26	17	33	12	22	3.2	238	81	TRINIDAD PORT OF SPAIN	32	25	34	23	28	1.4	303	206
OSAKA	26	18	33	14	22	2.7	270	129	COLOMBI BOGOTA	19	11	23	9	15	0.8	132	49
THAILAND PHETCHABUN	36	26	42	23	31	1.4	260	100	VENEZUE CARACAS	32	26	36	22	29	2.1	27	-10
BANGKOK	36	28	38	24	32	1.9	232	12	F GUIANA CAYENNE	31	24	33	23	27	1.5	381	-228
MALAYSIA KUALA LUMPUR	35	26	37	25	30	3.1	292	100	BRAZIL RECIFE	30	23	32	21	26	0.8	143	-164
VIETNAM HANOI	33	26	39	23	30	1.7	168	-27	BELO HORIZONTE	26	17	30	13	22	1.3	39	11
CHINA HARBIN	23	11	34	2	17	3.2	31	-5	FRANCA	23	15	27	10	19	2.8	76	18
HAMI	27	12	32	4	19	-1.1	3	0	RIO DE JANEIRO	25	21	29	18	23	0.0	76	-2
LANCHOW	23	12	31	8	18	1.0	58	20	LONDRINA	21	14	28	9	18	-1.4	101	-2
BEIJING	25	14	31	10	20	-0.6	45	16	SANTA MARIA	21	12	31	6	16	0.3	121	-8
TIENTSIN	26	15	31	11	20	0.0	67	34	PORTO ALEGRE	21	13	29	8	17	-0.5	167	52
LHASA	22	7	29	0	14	1.9	13	-14	PERU LIMA	25	19	29	18	22	2.7	0	0
KUNMING	26	16	30	11	21	2.3	78	-14	BOLIVIA LA PAZ	15	**	19	-6	**	***	1	-13
CHENGCHOW	25	15	33	10	20	-1.2	170	117	CHILE SANTIAGO	19	8	27	0	13	1.7	13	-27
YECHANG	26	18	32	11	22	0.2	187	63	ARGENTIN IGUAZU	23	13	29	8	18	***	142	**
HANKOW	26	19	34	11	22	0.6	201	52	FORMOSA	24	15	32	8	19	0.3	25	-93
CHUNGKING	27	20	34	13	24	***	137	**	CERES	21	11	29	5	16	0.1	21	-8
CHIHKIANG	26	18	32	12	22	1.1	171	-37	CORDOBA	20	9	29	2	15	0.3	52	31
WU HU	25	18	33	13	21	***	96	**	RIO CUARTO	18	9	25	5	14	0.7	71	48
SHANGHAI	23	18	32	15	21	***	65	**	ROSARIO	20	10	26	3	15	1.4	66	18
NANCHANG	27	20	34	13	24	1.7	257	2	BUENOS AIRES	19	10	24	3	14	1.5	47	-28
TAIPEI	29	24	33	21	27	2.3	561	342	SANTA ROSA	18	8	25	3	13	2.0	49	21
CANTON	30	23	33	17	26	1.0	310	44	TRES ARROYOS	17	8	22	1	12	1.9	12	-55
NANNING	31	24	35	19	28	1.8	140	-48	NEW CAL NOUMEA	27	22	31	18	24	2.2	110	19
CANARY I LAS PALMAS	23	18	27	13	20	0.5	1	-2	FIJI NAUSORI	27	22	30	19	25	0.5	185	-70
MOROCCO CASABLANCA	22	15	23	9	18	0.8	3	-16	SAMOA PAGO PAGO	31	27	33	21	29	2.3	38	-213
MARRAKECH	25	14	32	9	20	-0.9	1	-23	TAHITI PAPEETE	31	24	32	22	27	1.1	77	-17
ALGERIA ALGER	23	13	30	6	18	-0.1	151	115	AUSTRALI DARWIN	33	24	35	21	28	1.1	0	-29
BATNA	23	10	31	2	17	0.7	43	4	BRISBANE	23	14	26	8	19	0.0	165	68
TUNISIA TUNIS	25	13	33	-49	19	-0.2	19	-4	PERTH	23	13	31	9	18	1.9	80	-23
NIGER NIAMEY	41	30	45	24	35	1.5	28	-7	CEDUNA	22	11	30	2	16	1.5	5	-29
MALI TIMBUKTU	40	**	45	22	**	***	1	-3	ADELAIDE	18	11	25	4	14	0.3	24	-32
BAMAKO	37	28	42	23	**	***	20	-32	MELBOURNE	16	8	21	1	12	-0.8	31	-26
MAURITAN NOUAKCHOTT	34	21	40	18	28	2.2	0	0	WAGGA	17	7	22	0	12	-0.1	8	-52
SENEGAL DAKAR	26	21	30	20	24	0.7	0	0	CANBERRA	15	6	20	-3	10	1.1	45	0
CHAGOS DIEGO GARCIA	30	27	31	23	28	1.0	184	-6	INDONESIA DJAKARTA	33	25	34	23	29	2.1	129	**
LIBYA TRIPOLI	30	17	40	11	23	0.6	9	5	PHILIPPI MANILA	34	28	37	23	31	1.4	130	5
BENGHAZI	28	18	41	14	23	0.3	2	-1									
EGYPT CAIRO	32	20	39	15	26	0.7	1	1									
ASWAN	40	25	45	21	32	1.6	2	2									
ETHIOPIA ADDIS ABABA	24	12	28	10	18	0.0	110	33									
KENYA NAIROBI	25	16	28	13	20	0.9	303	193									
TANZANIA DAR ES SALAAM	31	21	33	13	26	0.7	67	-88									
GABON LIBREVILLE	31	24	32	20	28	0.8	279	11									
TOGO LOME	33	25	36	22	29	1.9	84	-64									
BURKINA OUAGADOUGOU	38	29	43	22	33	1.5	64	-8									
COTE D'I ABIDJAN	32	26	37	22	29	1.6	65	-211									
MOZAMBI MAPUTO	28	18	38	12	23	1.3	0	-30									
ZAMBIA LUSAKA	**	**	38	7	**	***	0	-2									
ZIMBABW HARARE	25	11	30	7	18	2.7	0	-10									

Based on Preliminary Reports



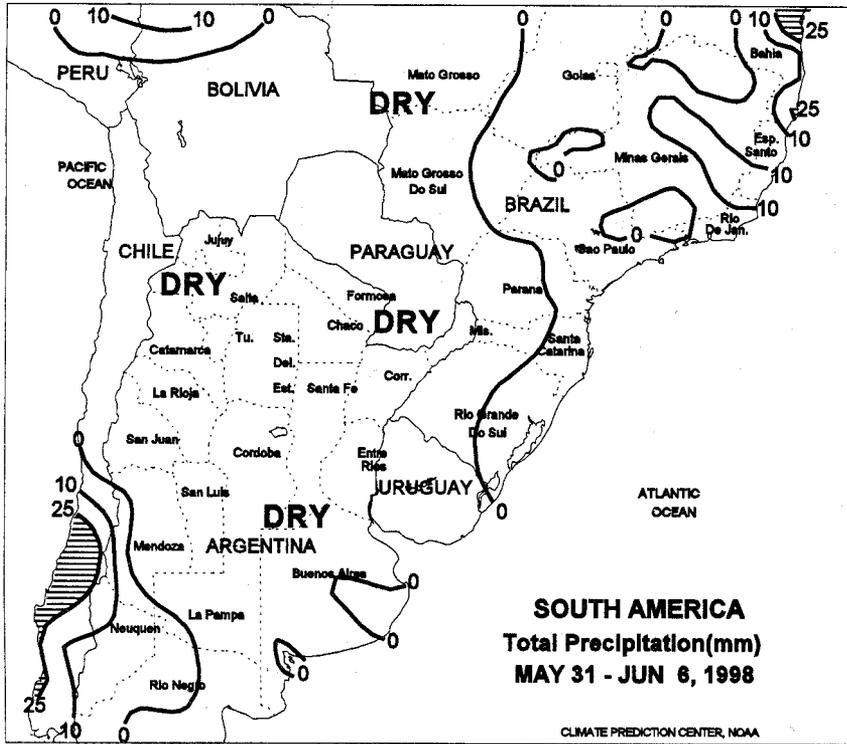
EUROPE

Widespread rain (10-40 mm) fell from England and France eastward through Germany into western Poland, benefiting filling winter grains and spring-sown crops in the vegetative stage. In Scandinavia, light showers (10-25 mm) improved moisture conditions for winter grains in or nearing the heading stage and spring grains in the vegetative stage. In the south, unseasonable showers (10-34 mm) continued in Spain, with hot, dry weather prevailing farther east in Italy and Greece. Extreme maximum temperatures in Italy and Greece ranged from 30 to 35 degrees C, promoting summer crop development and favoring winter grain maturation. In eastern Europe, light showers (generally less than 10 mm) early in the week were followed by warmer, drier weather as the week progressed. The warm, dry conditions accelerated crop development and increased crop-water requirements. Weekly temperatures averaged 2 to 4 degrees C above normal across most of Europe, except in Portugal and western Spain, where temperatures averaged 1 to 3 degrees C below normal.



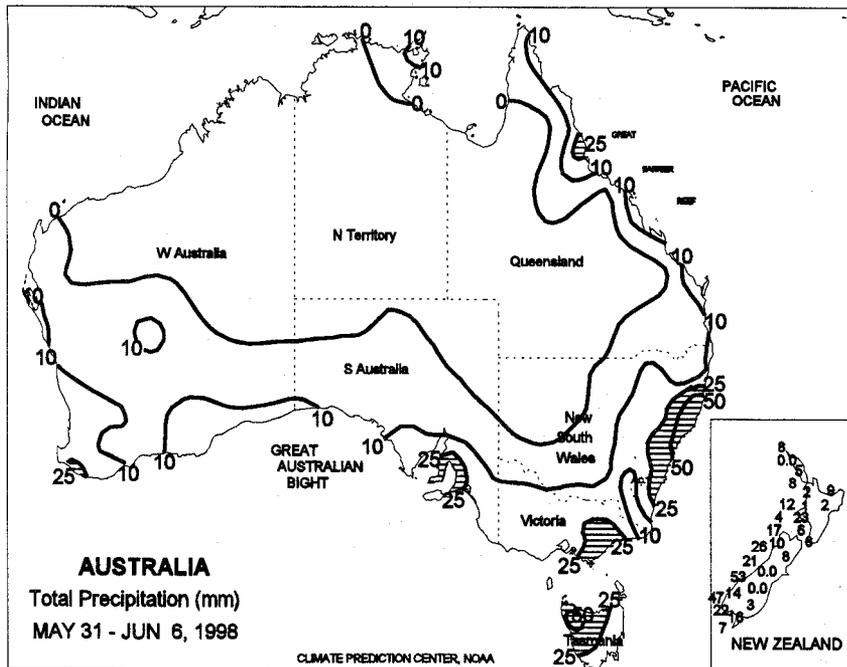
FSU-WESTERN

Scattered showers (7-25 mm, with local amounts in excess of 25 mm) and mild weather maintained favorable growing conditions for winter grains and spring-sown crops in Ukraine, Belarus, and the Baltics. Locally heavy showers (25-50 mm or more) fell in the southern portion of the North Caucasus region in Russia. Although the precipitation maintained abundant moisture conditions for crop development, it may have caused some lodging of winter wheat in the filling stage. Farther north, several days of dry weather in important spring grain-producing areas of the Volga Valley allowed spring grain planting to rapidly advance toward completion. However, the combination of a drying trend since early May along with unseasonably warm weather this past week has lowered topsoil moisture needed for germination. Although some light showers (generally less than 10 mm) fell in the region at week's end, more rain is needed to promote germination and early growth. Weekly temperatures averaged 2 to 4 degrees C above normal over most of Ukraine, Russia, the Baltics, and Belarus.



SOUTH AMERICA

Dry weather favored summer crop harvesting and winter wheat planting across Argentina and southern Brazil. The dry weather also aided Brazilian coffee maturation and harvesting in Minas Gerais and northern Sao Paulo. Temperatures averaged 1 to 3 degrees C above normal in central Argentina and near normal in southern Brazil. According to reports as of May 29, Argentine cotton, soybean, and corn crops were 48, 78, and 66 percent harvested, respectively. Last year at this time, cotton, soybean, and corn crops were 72, 95, and 89 percent harvested, respectively.

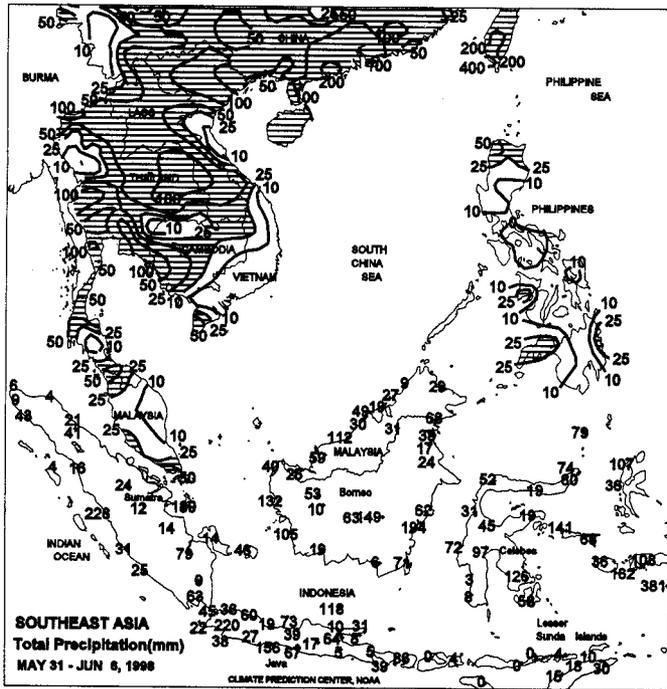


AUSTRALIA

Light to moderate showers (5-25 mm or more) swept across the western and southeastern winter grain belts, keeping topsoils moist for germination and establishment. However, rain was sparse over southern Queensland for the third week. Temperatures averaged 2 to 4 degrees C above normal throughout the main winter grain areas, favoring early development. In New Zealand, drier weather returned to primary agricultural areas, with most locations recording less than 10 mm.

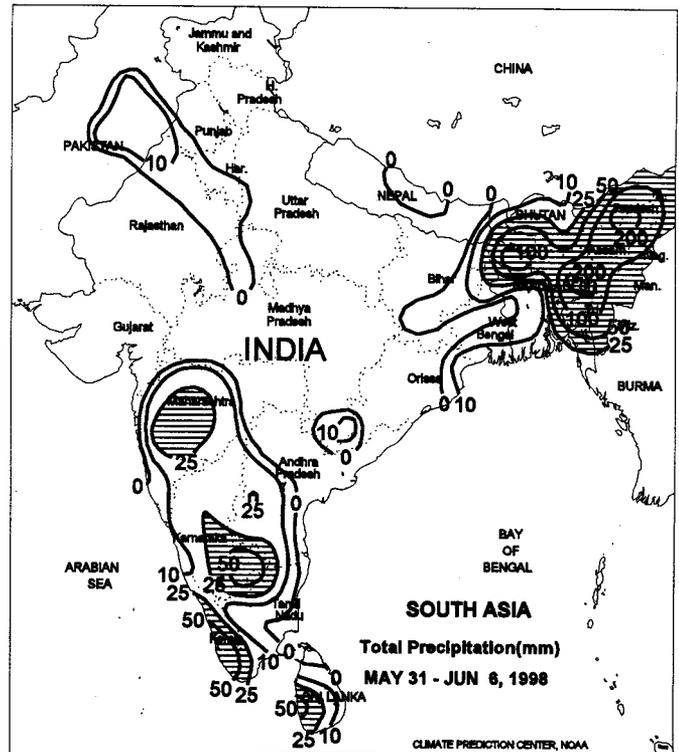
SOUTHEAST ASIA

Seasonal showers (30-100 mm, with isolated amounts greater than 150 mm) covered Thailand and most of Vietnam. Sparse rainfall (less than 10 mm) prevailed across southern Vietnam during the past 2 weeks, reducing moisture for coffee and rice. Light showers (less than 10 mm) also reduced moisture for oil palm across the eastern Malay peninsula. Moderate showers (20-40 mm) provided adequate moisture for oil palm in the west. Monsoonal showers (5-25 mm) lessened across the Philippines. Unseasonably heavy showers (20-100 mm) boosted irrigation supplies for second-season crops across Java.



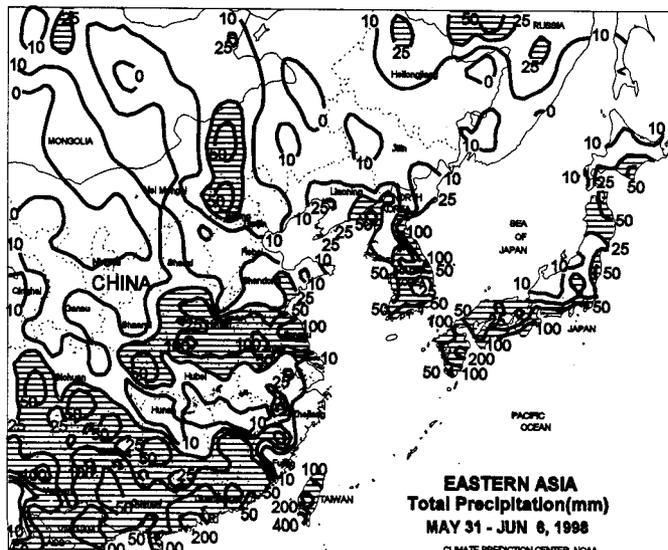
SOUTH ASIA

Locally heavy rain (greater than 50 mm) over India's southern tip marked the arrival of the southwest monsoon. Scattered showers (10-25 mm or more) in the southern interior reached as far north as Maharashtra. The rain brought temperatures down to more seasonable levels following early-week highs that approached the middle 40's C. Grain, oilseed, and cotton plantings typically commence as rains become consistent. Farther north, oppressive pre-monsoon heat remains entrenched over central and northern India and Pakistan. These areas are weeks away from the normal start of their rainy season. In the east, heavy rain (50-100 mm, locally exceeding 200 mm) continued over sections of Bangladesh and eastern India, disrupting rice planting and causing some flooding.



EASTERN ASIA

In the North China Plain, widespread rain (10-60 mm) benefited emerging corn, soybeans, and cotton but slowed winter wheat maturation and harvesting. The rain (10-50 mm) extended into the Sichuan Basin and the Yangtze Valley. Light rain (less than 15 mm) kept topsoils moist for emerging summer crops in Manchuria. Southern China received moderate showers (25-75 mm), maintaining favorable moisture supplies for rice. Widespread rain (20-60 mm) covered Japan and the Korean Peninsula, increasing rice irrigation supplies.



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U.S. DEPARTMENT OF COMMERCE
 National Oceanic and Atmospheric Administration
 National Weather Service/Climate Prediction Center
 Managing Editor (Acting) **Brad Rippey** (202) 720-1444
 fax (202) 720-1455
 Meteorologists **David Miskus**
 **Jeff Savadel, Brian Morris, and James Brotherton**
 Special Requests (202) 720-7917
 Subscriptions **John Kopman** (301) 763-8227, ext. 7534
 fax (301) 763-8125

U.S. DEPARTMENT OF AGRICULTURE
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 E.R.S. Editor **Sharon Lee**
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**Pasture and Range Crop Condition by Percent
 Week Ending June 7, 1998**

	VP	P	F	G	EX		VP	P	F	G	EX
AL	15	24	32	28	1	NH	0	3	29	65	3
AZ	0	13	30	39	18	NJ	0	0	20	60	20
AR	0	5	29	59	7	NM	3	26	41	30	0
CA	0	5	5	20	70	NY	0	0	26	74	0
CO	2	6	28	58	6	NC	0	3	20	69	8
CT	0	0	13	87	0	ND	10	26	32	31	1
DE	0	0	15	85	0	OH	1	4	19	52	24
FL	10	40	40	10	0	OK	2	16	36	43	3
GA	11	15	34	36	4	OR	0	0	6	43	51
ID	0	0	2	55	43	PA	3	13	25	54	5
IL	0	2	18	65	15	RI	0	0	1	82	17
IN	1	3	22	54	20	SC	0	6	25	64	5
IA	1	3	14	51	31	SD	1	4	20	57	18
KS	0	3	22	65	10	TN	0	1	17	65	17
KY	0	2	14	64	20	TX	16	35	38	11	0
LA	13	31	36	19	1	UT	0	3	17	72	8
ME	0	4	17	60	19	VT	0	0	2	55	43
MD	4	6	19	58	13	VA	0	2	15	67	16
MA	0	0	0	92	8	WA	0	5	10	60	25
MI	8	22	39	25	6	WV	1	1	20	66	12
MN	1	6	25	58	10	WI	2	7	25	48	18
MS	2	11	26	54	7	WY	4	12	31	43	10
MO	0	3	24	65	8	ALL	4	12	26	44	14
MT	3	22	53	21	1						
NE	1	6	22	64	7	Prev Wk	4	11	25	45	15
NV	0	0	0	45	55	Prev Yr	1	7	28	54	10

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