

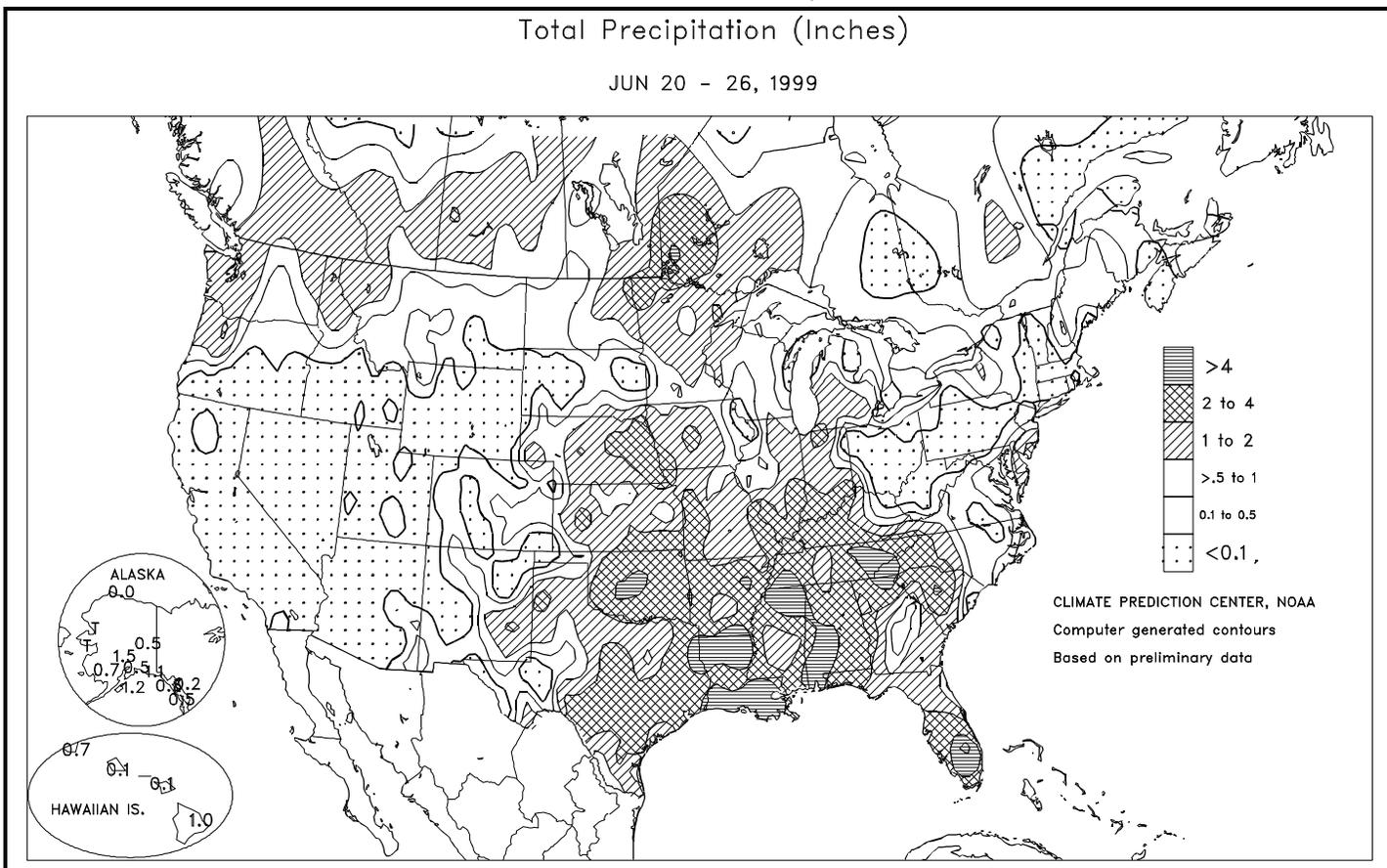
WEEKLY WEATHER AND CROP BULLETIN

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)

JUN 20 - 26, 1999



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

HIGHLIGHTS

June 20 - 26, 1999

Widespread, locally heavy rainfall across the **Southeast** further improved pasture conditions and eased stress on livestock and summer crops. Occasional showers and thunderstorms also continued across the **central Plains** and **western Corn Belt**, generally benefiting summer crops, but causing winter wheat harvest delays and some lowland flooding. Showers overspread the **eastern Corn Belt** late in the week, boosting topsoil moisture for corn and soybeans approaching the weather-sensitive reproductive phase of development. Meanwhile in the **Northwest**, late-week showers provided much-needed moisture for dryland small grains. Following last week's hot weather, temperatures averaged as much as 4°F

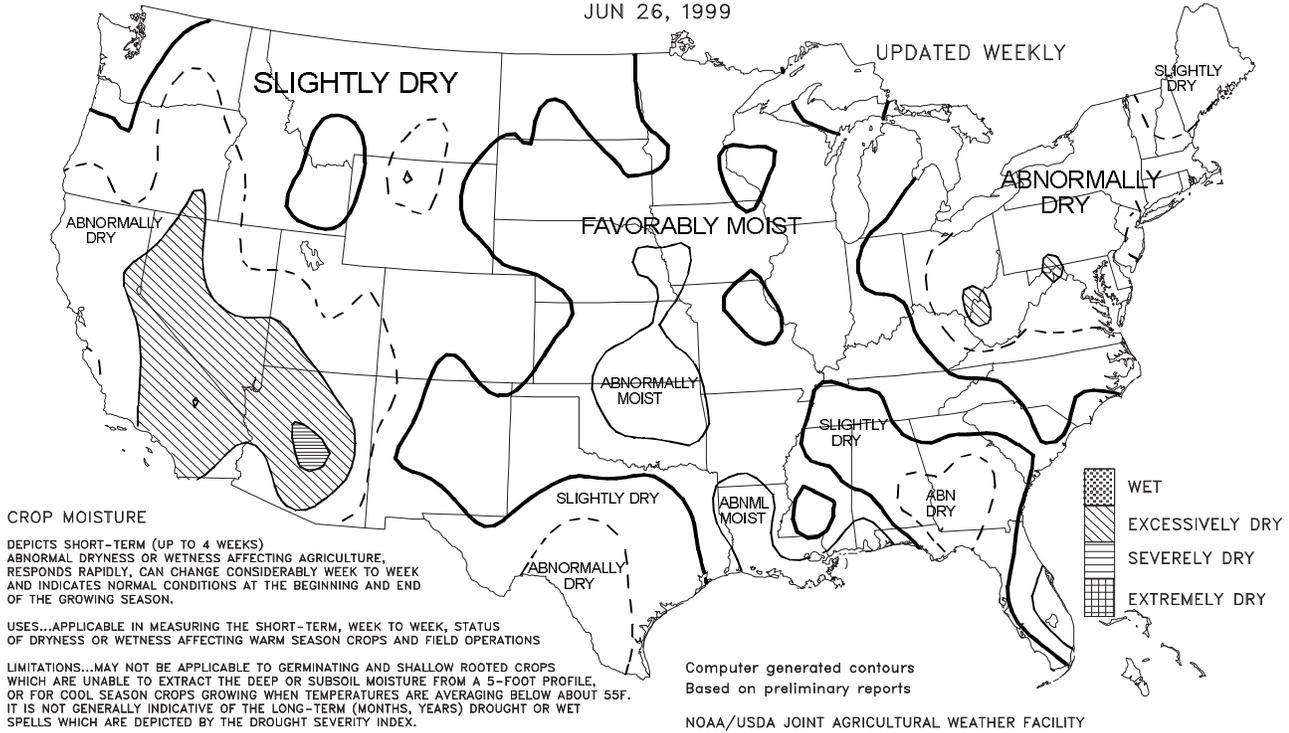
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Crop Moisture
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
JUN 26, 1999

UPDATED WEEKLY



CROP MOISTURE

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

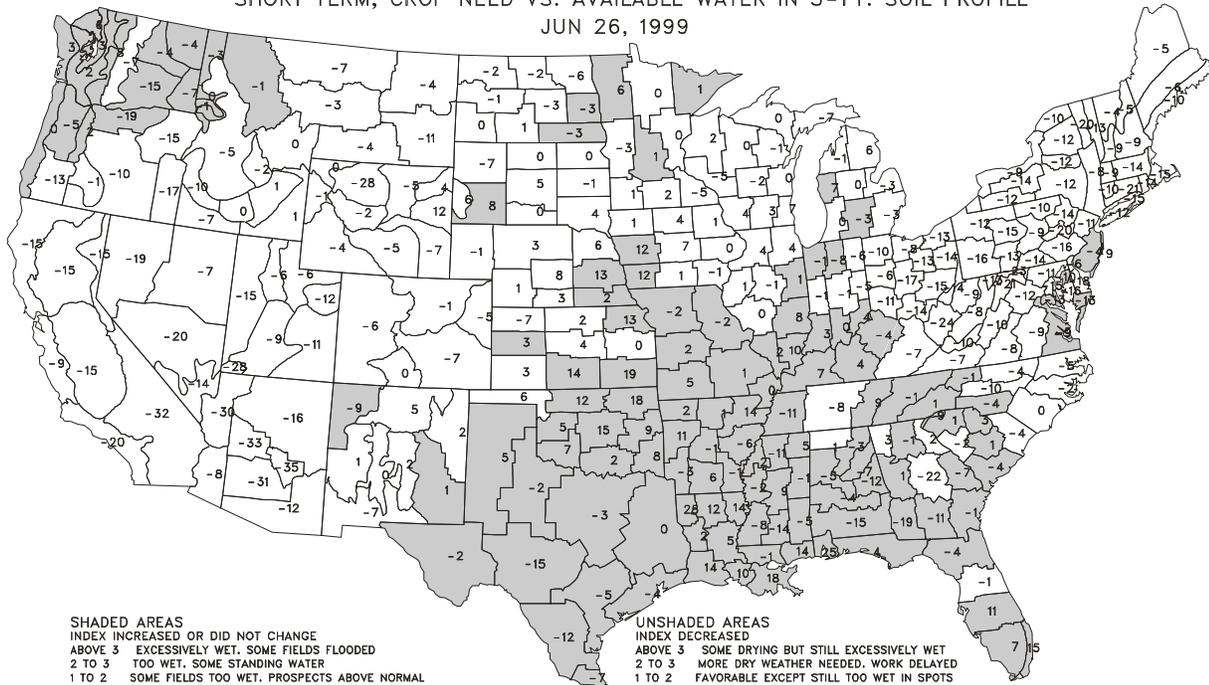
USES...APPLICABLE IN MEASURING THE SHORT-TERM, WEEK TO WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS

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

Computer generated contours
Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Crop Moisture Index
SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE
JUN 26, 1999



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

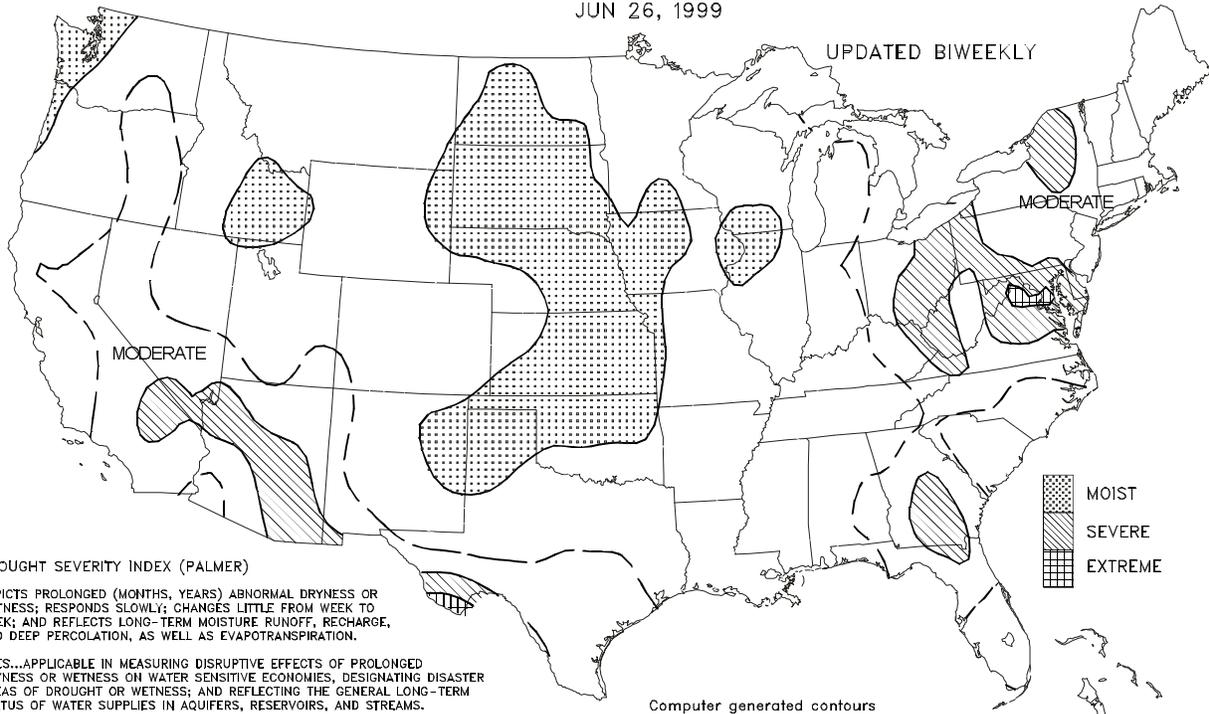
UNSHADED AREAS
INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED. WORK DELAYED
1 TO 2 FAVORABLE EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT. GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY. PROSPECTS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

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

BASED ON PRELIMINARY DATA

DROUGHT SEVERITY
LONG TERM PALMER
JUN 26, 1999

UPDATED BIWEEKLY



DROUGHT SEVERITY INDEX (PALMER)

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

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

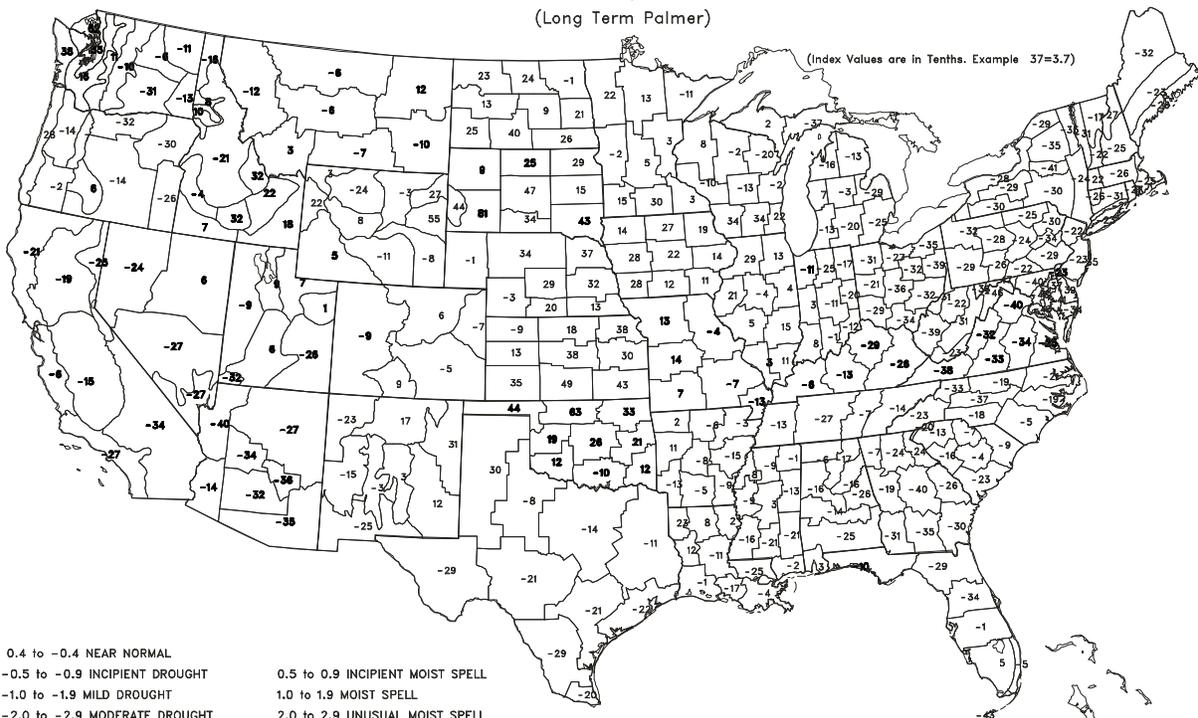
LIMITATIONS...IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

Computer generated contours
Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Drought Severity Index by Division
JUN 26, 1999
(Long Term Palmer)

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



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

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

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

Weather Data for Selected Locations in the Delta

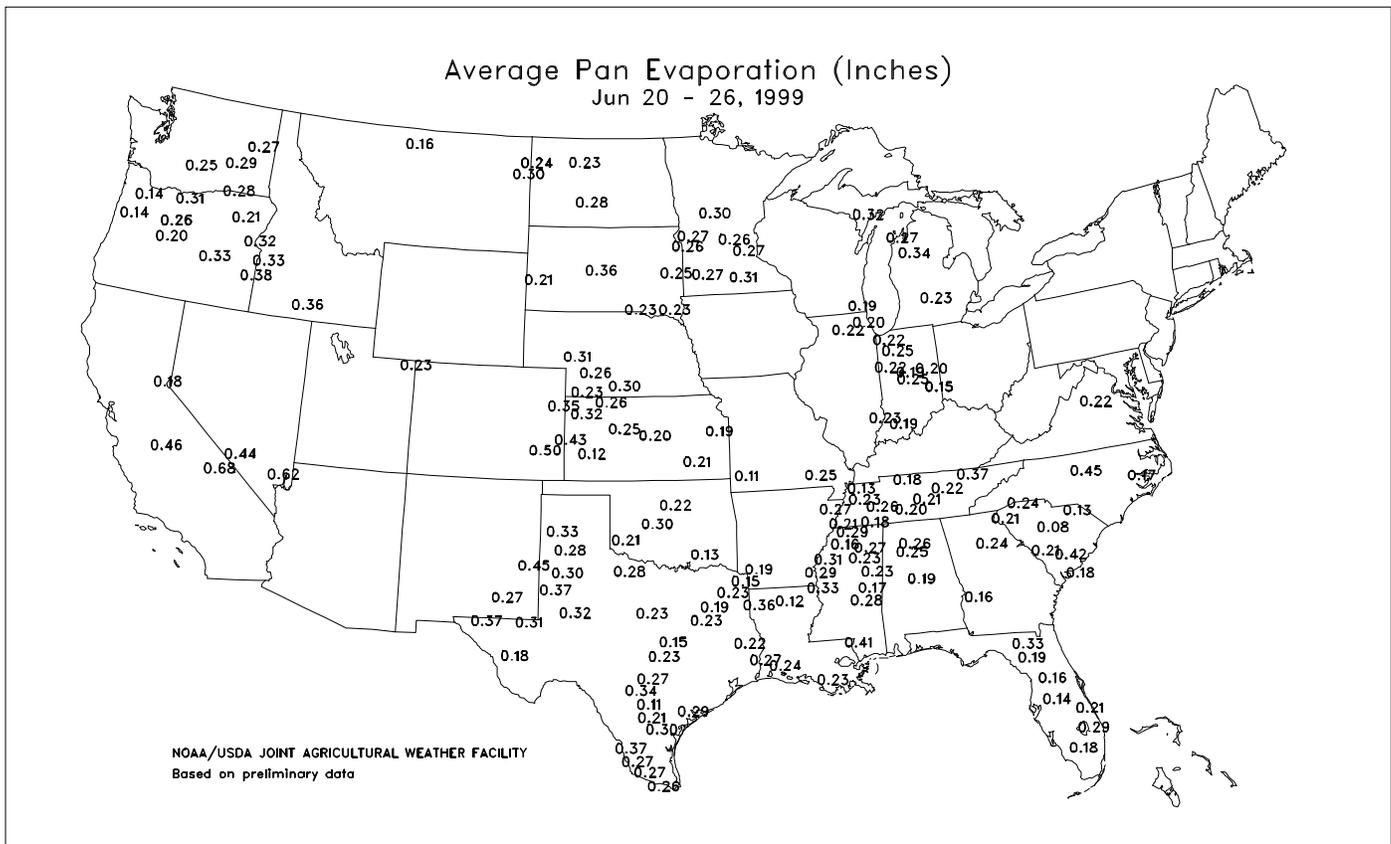
Weather Data for the Week Ending June 26, 1999

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

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								4-INCH SOIL TEMP, °F		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
MS BELZONI	90	69	93	63	80	--	1.07	--	0.52	--	--	--	--	--	--	5	0	4	1	
INDIANOLA 1S	87	70	91	66	79	--	1.39	--	0.61	2.31	--	29.68	--	84	77	2	0	4	1	
INVERNESS 5E	87	71	90	67	79	--	1.81	--	0.81	3.38	--	--	--	80	75	2	0	4	1	
LYON	89	70	93	64	80	--	2.70	--	1.69	3.36	--	26.94	--	--	--	3	0	3	2	
MOORHEAD	88	72	92	70	80	--	1.42	--	0.66	--	--	--	--	--	--	2	0	4	1	
ONWARD	86	70	91	66	78	--	3.71	--	2.33	5.80	--	33.95	--	78	77	1	0	5	2	
ROLLING FORK	89	69	94	63	79	--	0.89	--	0.53	--	--	--	--	--	--	2	0	4	1	
SIDON	88	70	92	67	79	--	0.43	--	0.16	1.68	--	26.89	--	88	80	2	0	5	0	
TUNICA	86	71	90	67	79	--	6.06	--	3.89	--	--	--	--	--	--	1	0	4	3	
VICKSBURG	86	71	89	61	79	--	1.80	--	1.29	--	--	--	--	--	--	0	0	4	1	
YAZOO CITY	88	69	91	60	79	--	0.74	--	0.39	--	--	--	--	--	--	3	0	3	0	
STONEVILLE *	89	71	93	66	80	-1	1.19	0.22	0.78	1.64	50	32.74	115	91	78	3	0	2	1	

* Based on 1964-93 normals.

Delta Weather and Crop Summary: Precipitation returned to the region in the form of scattered afternoon thunderstorms. Rain fell on 2 to 5 days during the week, bringing relief to parched crops. Temperatures were seasonable, with afternoon readings consistently near 90°F. Morning humidity values were often greater than 90 percent. Crops experienced localized damage due to severe thunderstorms, but most fields benefited from the rains.



(Continued from front cover)

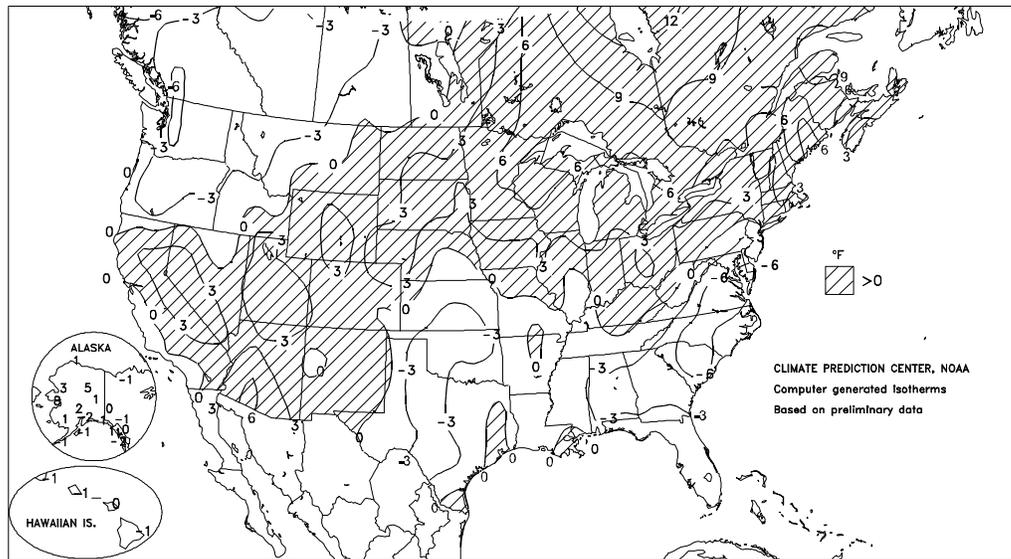
below normal in the **Northwest**. Heat intensified across **California** and the **Southwest** (up to 5°F above normal), however, aiding crop development but increasing the threat of wildfires. Farther east, warm weather (up to 7°F above normal) spurred crop development in the **northern Corn Belt**, while cool conditions (as much as 7°F below normal) prevailed in the **Southeast**. Hot weather spread across the **southern Plains** after midweek, pushing temperatures toward the 100-degree mark and aiding cotton development and winter wheat harvesting. In contrast, late-week temperatures fell below 40°F on parts of the **northern High Plains**.

Cool weather prevailed across the **South-Central and Southeastern States** until late in the week. On Sunday, highs reached only 61°F in **Greensboro, NC**, 70°F in **Columbia, SC** and 77°F in **Austin, TX**. Through June 20, this year's high temperatures reached or exceeded 90°F on just 9 days in **Shreveport, LA**, compared to 33 days in 1998. In addition, **Shreveport** netted 7.98 inches of rain during the first 26 days of June, including daily-record totals on June 22 (1.54 inches) and June 24 (3.07 inches). **Amarillo, TX** notched their latest first 90-degree reading (93°F on June 23), breaking a record set on June 16, 1949. In **New Mexico**, **Albuquerque's** first 90-degree heat occurred on June 22, their latest such occurrence since June 23, 1921. After midweek, however, heat began to expand across the **South and East**. On Thursday, **Burlington, VT** logged a daily record-tying high of 91°F. **Albuquerque** posted a high of 96°F on Friday.

Mostly dry weather dominated areas from the **middle Ohio Valley** to **southern New England**, but significant rain (1 to 4 inches, with locally higher totals) fell from the **central and southern Plains** into the **Southeast**. Totals exceeded 8 inches in parts of **southeastern Louisiana**. Although June 1-26 rainfall reached 12.20 inches in **New Orleans, LA**, year-to-date precipitation remained well below normal (24.59 inches, or 82 percent of normal). Similarly, the year-to-date total of 15.02 inches (73 percent of normal) remained below normal in **Ft. Myers, FL**, despite 9.05 inches of rain during the first 26 days of June. Elsewhere in **southern Florida**, month-to-date rainfall reached 18.68 inches in **Hollywood**, eclipsing their June record of 18.62 inches, set in 1962. Farther west, month-to-date rainfall climbed to 5.62 inches in **Del Rio, TX**, their wettest June since 1987, when 5.74 inches fell. Meanwhile in **Wisconsin**, **Milwaukee's** monthly

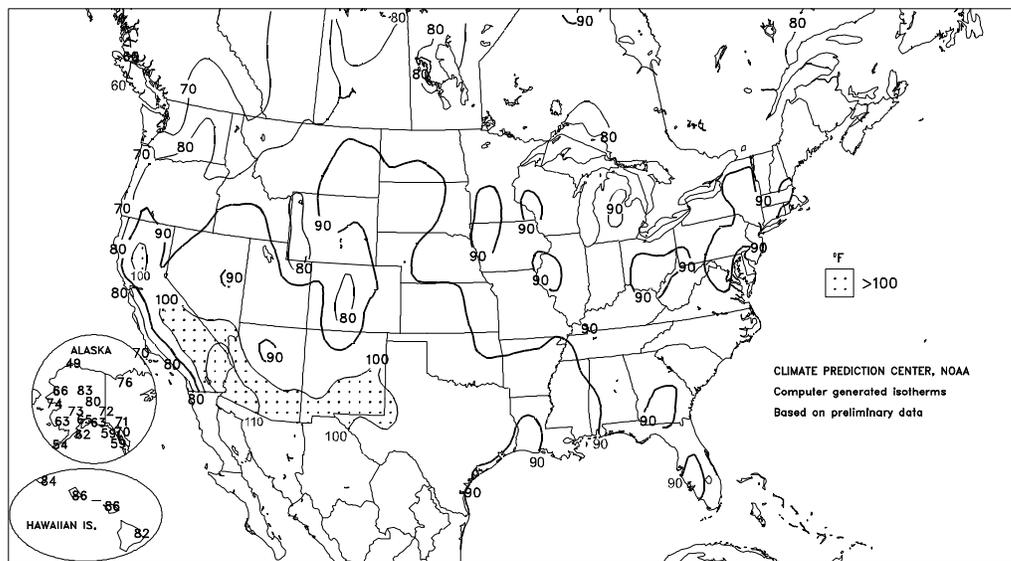
Departure of Average Temperature from Normal (°F)

JUN 20 - 26, 1999



Extreme Maximum Temperature (°F)

JUN 20 - 26, 1999

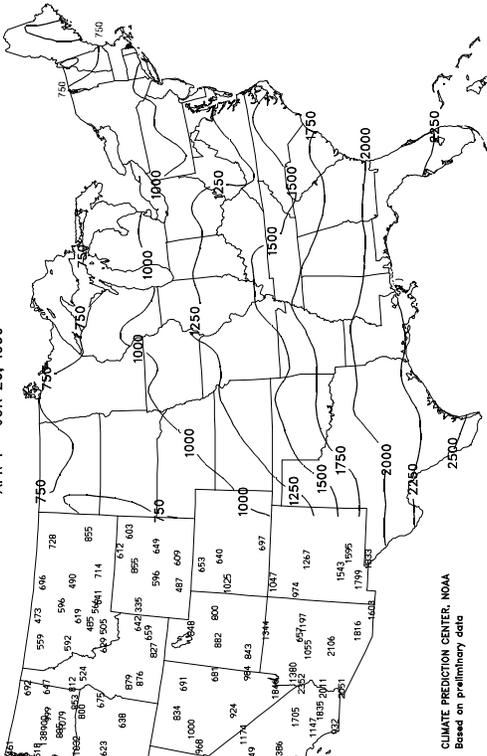


rainfall rose to 6.40 inches, their greatest June total since 7.53 inches accumulated in 1969. In contrast, **Pittsburgh, PA** recorded only 0.53 inch of rain during the first 26 days of June.

Much-needed rain overspread the **Northwest** on June 24-25, denting a 4-month dry spell. On Thursday, a daily-record total (1.00 inch) in **Seattle, WA** boosted their June 1-26 rainfall to 1.79 inches (134 percent of normal). Similarly, **Spokane, WA** netted 0.85 inch, a daily record, on Friday, improving their month-to-date rainfall to 1.35 inches (118 percent of normal). Cooler weather trailed the showers into the **Northwest**, where **Pocatello, ID** registered a daily record-tying low of 35°F on Saturday.

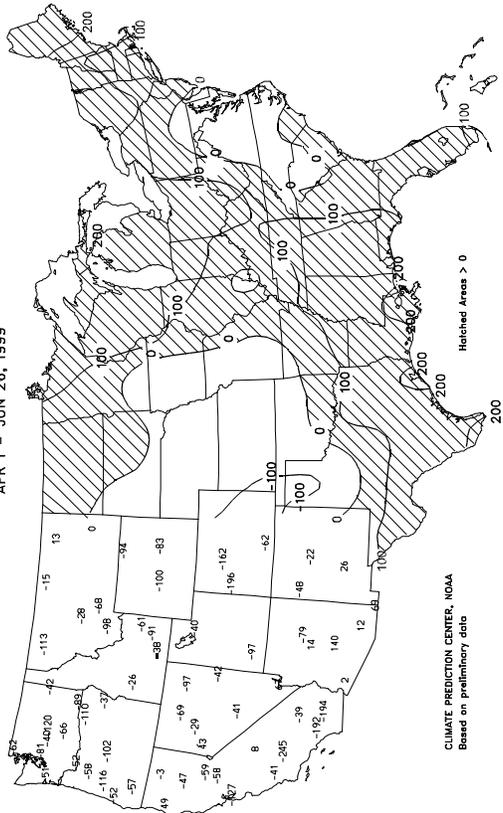
Warm weather (temperatures 1 to 8°F above normal) prevailed in **interior and western Alaska** for the third consecutive week. Temperatures remained above 50°F all week in **Fairbanks**.

Total Growing Degree Days
APR 1 - JUN 26, 1999



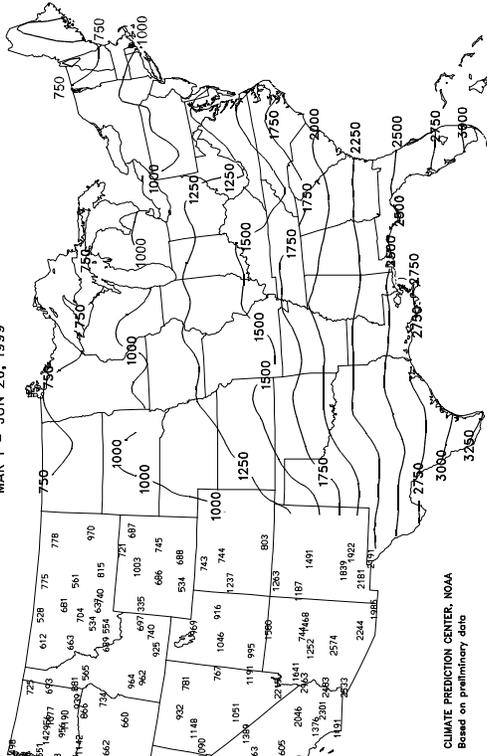
CLIMATE PREDICTION CENTER, NOAA
Based on preliminary data

Departure From Normal Growing Degree Days
APR 1 - JUN 26, 1999



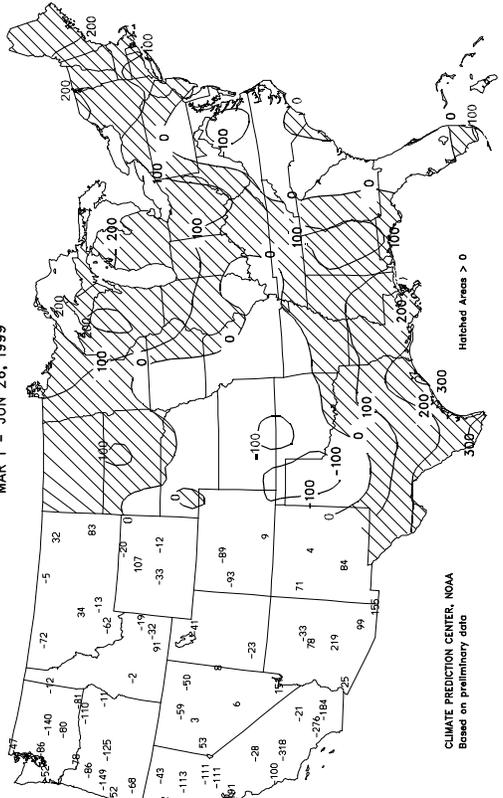
CLIMATE PREDICTION CENTER, NOAA
Based on preliminary data

Total Growing Degree Days
MAR 1 - JUN 26, 1999



CLIMATE PREDICTION CENTER, NOAA
Based on preliminary data

Departure From Normal Growing Degree Days
MAR 1 - JUN 26, 1999



CLIMATE PREDICTION CENTER, NOAA
Based on preliminary data

National Weather Data for Selected Cities

Weather Data for the Week Ending June 26, 1999

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

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	84	68	87	61	76	-1	2.13	1.24	0.81	4.23	133	29.26	101	94	62	0	0	4	2
AL HUNTSVILLE	83	67	87	60	75	-2	0.81	-0.15	0.56	4.14	116	31.29	104	97	61	0	0	4	1
AL MOBILE	86	70	89	64	78	-4	4.76	3.56	3.50	7.65	177	28.17	90	95	67	0	0	5	2
AL MONTGOMERY	85	68	87	62	77	-3	1.88	0.92	0.64	4.30	130	21.99	78	93	64	0	0	4	2
AK ANCHORAGE	60	49	65	45	54	-2	0.53	0.23	0.51	1.09	114	3.61	78	88	53	0	0	3	1
AK BARROW	43	33	49	29	38	1	0.00	-0.09	0.00	0.35	175	0.82	88	90	72	0	2	0	0
AK FAIRBANKS	71	53	80	51	63	1	0.54	0.18	0.50	1.14	99	2.33	69	92	42	0	0	3	1
AK JUNEAU	62	47	70	42	54	0	0.14	-0.61	0.10	2.20	81	28.68	140	98	63	0	0	3	0
AK KODIAK	54	45	62	43	50	-1	1.24	0.20	0.86	8.86	210	31.50	101	96	73	0	0	3	1
AK NOME	65	47	74	44	56	8	0.02	-0.29	0.01	0.65	71	4.02	96	87	54	0	0	2	0
AZ FLAGSTAFF	81	45	82	38	63	1	0.00	-0.17	0.00	0.95	559	5.46	60	60	17	0	0	0	0
AZ PHOENIX	107	83	109	78	95	5	0.00	-0.05	0.00	0.00	0	1.42	53	31	14	7	0	0	0
AZ TUCSON	103	76	106	72	89	4	0.00	-0.12	0.00	0.16	114	1.50	52	37	13	7	0	0	0
AZ YUMA	106	80	111	76	93	4	0.00	0.00	0.00	0.00	0	1.77	181	39	17	7	0	0	0
AR FORT SMITH	87	69	90	66	78	-1	2.88	2.18	1.20	4.15	138	26.37	127	96	54	1	0	6	2
AR LITTLE ROCK	88	70	90	66	79	-1	2.04	1.26	1.25	4.24	135	26.83	104	94	56	1	0	4	2
CA BAKERSFIELD	95	65	98	59	80	0	0.00	-0.03	0.00	0.00	0	5.42	142	59	22	7	0	0	0
CA EUREKA	61	51	63	47	56	0	0.00	-0.08	0.00	0.13	27	27.18	130	89	72	0	0	0	0
CA FRESNO	97	66	103	61	82	3	0.00	0.00	0.00	0.20	286	5.96	86	62	19	7	0	0	0
CA LOS ANGELES	72	62	74	61	67	0	0.00	0.00	0.00	1.12	999	7.32	95	92	68	0	0	0	0
CA REDDING	97	67	105	57	82	4	0.00	-0.09	0.00	0.41	79	16.93	90	49	17	6	0	0	0
CA SACRAMENTO	90	57	96	54	74	1	0.00	-0.03	0.00	0.03	30	9.91	93	84	30	5	0	0	0
CA SAN DIEGO	67	59	70	57	63	-5	0.00	-0.01	0.00	0.04	44	5.08	82	89	70	0	0	0	0
CA SAN FRANCISCO	69	52	76	50	61	-2	0.00	-0.03	0.00	0.31	310	12.99	106	90	56	0	0	0	0
CO ALAMOSA	80	43	86	40	62	0	0.02	-0.15	0.02	0.32	57	2.82	106	91	19	0	0	1	0
CO CO SPRINGS	83	54	87	50	68	1	0.31	-0.23	0.23	1.36	71	13.01	189	81	28	0	0	4	0
CO DENVER	86	57	90	52	72	2	0.16	-0.23	0.15	2.52	162	11.54	144	76	23	1	0	2	0
CO GRAND JUNCTION	93	62	97	57	77	3	0.20	0.09	0.20	0.61	139	3.75	94	51	16	6	0	1	0
CO PUEBLO	95	54	98	51	74	1	0.00	-0.31	0.00	0.20	19	8.02	176	82	18	6	0	0	0
CT BRIDGEPORT	80	62	88	56	71	1	0.11	-0.69	0.11	0.42	14	19.69	95	87	42	0	0	1	0
CT HARTFORD	86	57	92	51	72	1	0.00	-0.84	0.00	0.72	22	18.11	84	90	32	3	0	0	0
DC WASHINGTON	80	63	91	59	71	-6	0.54	-0.25	0.51	2.12	73	17.32	97	94	50	1	0	2	1
DE WILMINGTON	79	59	89	53	69	-4	0.62	-0.22	0.51	1.63	53	21.48	109	97	55	0	0	3	1
FL DAYTONA BEACH	86	71	89	68	79	-1	1.61	0.15	1.28	6.94	134	17.55	90	95	62	0	0	4	1
FL JACKSONVILLE	85	70	88	68	77	-3	1.08	-0.30	0.51	6.73	138	16.20	73	97	65	0	0	3	1
FL KEY WEST	88	78	89	75	83	0	0.10	-1.09	0.05	2.37	53	11.39	75	88	69	0	0	3	0
FL MIAMI	88	74	90	73	81	-1	2.59	0.44	0.83	9.93	121	19.66	83	92	62	1	0	5	3
FL ORLANDO	88	73	90	73	81	-1	3.28	1.44	2.45	13.46	215	25.10	125	96	53	1	0	5	1
FL PENSACOLA	86	72	88	67	79	-2	2.65	1.05	1.33	5.72	105	23.28	80	92	59	0	0	4	2
FL TALLAHASSEE	87	72	89	70	79	-1	0.89	-0.87	0.61	4.88	83	21.85	71	94	59	0	0	6	1
FL TAMPA	87	74	88	72	81	-1	0.56	-0.83	0.35	4.00	86	9.98	59	95	61	0	0	4	0
FL WEST PALM BEACH	87	74	89	73	81	0	3.55	1.67	1.59	11.95	169	23.63	94	95	63	0	0	6	2
GA ATHENS	81	66	86	62	73	-5	1.08	0.15	0.63	6.44	192	21.01	80	97	64	0	0	3	1
GA ATLANTA	80	66	84	59	73	-4	2.13	1.28	0.64	4.76	157	20.95	78	94	63	0	0	5	2
GA AUGUSTA	84	65	90	59	75	-4	1.20	0.23	0.94	5.99	168	20.02	85	95	59	1	0	3	1
GA COLUMBUS	83	70	88	64	77	-4	0.60	-0.40	0.39	1.27	37	13.86	51	88	56	0	0	3	0
GA MACON	84	68	91	63	76	-4	0.10	-0.76	0.06	2.65	87	15.57	64	94	60	1	0	2	0
GA SAVANNAH	85	67	90	65	76	-4	0.85	-0.54	0.80	5.66	117	19.20	85	99	61	1	0	3	1
HI HILO	80	68	82	65	74	-1	1.00	-0.45	0.30	4.26	81	71.64	111	92	58	0	0	7	0
HI HONOLULU	85	73	86	71	79	-1	0.06	-0.05	0.03	0.09	20	6.34	57	81	48	0	0	3	0
HI KAHULUI	85	70	86	68	78	0	0.09	0.03	0.06	0.58	242	7.04	56	84	49	0	0	2	0
HI LIHUE	83	72	84	70	77	-1	0.69	0.33	0.20	1.46	99	15.59	72	87	59	0	0	6	0
ID BOISE	81	56	93	48	68	0	0.00	-0.17	0.00	0.50	68	6.33	92	62	22	1	0	0	0
ID LEWISTON	75	54	81	47	65	-4	0.92	0.65	0.50	1.51	136	6.44	95	83	35	0	0	3	1
ID POCATELLO	80	49	89	36	65	0	0.03	-0.18	0.03	0.86	95	8.05	121	73	23	0	0	1	0
IL CHICAGO/O'HARE	84	63	89	54	74	3	0.40	-0.48	0.32	4.91	151	24.73	157	90	44	0	0	2	0
IL MOLINE	87	64	91	55	76	3	0.54	-0.48	0.39	5.15	140	20.09	114	93	48	1	0	3	0
IL PEORIA	84	66	90	56	75	2	0.01	-0.95	0.01	3.01	88	17.43	104	90	50	1	0	1	0
IL ROCKFORD	84	63	88	53	73	3	0.54	-0.53	0.43	5.53	141	22.07	137	92	47	0	0	2	0
IL SPRINGFIELD	84	66	90	56	75	0	0.29	-0.51	0.13	2.76	93	15.34	91	91	52	1	0	3	0
IN EVANSVILLE	83	67	87	64	75	-1	0.80	0.02	0.32	3.93	130	25.56	115	96	61	0	0	3	0
IN FORT WAYNE	85	62	89	53	73	1	0.02	-0.81	0.02	0.79	25	17.59	106	86	45	0	0	1	0
IN INDIANAPOLIS	84	68	88	64	76	3	0.85	0.02	0.56	2.28	76	21.75	113	89	53	0	0	2	1
IN SOUTH BEND	85	64	89	57	75	4	1.24	0.25	0.60	2.19	62	17.20	96	85	45	0	0	3	2
IA BURLINGTON	89	68	93	62	78	5	0.10	-0.86	0.06	6.27	179	21.56	134	83	45	4	0	4	0
IA CEDAR RAPIDS	85	63	89	55	74	2	0.45	-0.62	0.27	3.00	76	17.71	117	93	52	0	0	2	0
IA DES MOINES	85	67	90	64	76	2	1.00	-0.04	0.79	3.24	84	16.91	111	88	51	1	0	2	1
IA DUBUQUE	82	64	87	57	73	3	0.09	-0.85	0.08	4.35	121	19.45	114	89	50	0	0	2	0
IA SIOUX CITY	84	64	91	59	74	1	0.29	-0.56	0.16	6.56	203	18.47	148	93	54	2	0	3	0
IA WATERLOO	86	64	89	57	75	4	0.86	-0.21	0.52	4.27	111	19.83	129	91	50	0	0	3	1
KS CONCORDIA	85	66	92	62	75	-1	0.00	-1.02	0.00	1.94	50	17.44	124	97	59	1	0	0	0
KS DODGE CITY	86	63	94	61	75	-2	0.52	-0.20	0.51	2.71	101	12.87	124	97	53	1	0	2	1
KS GOODLAND	87	61	91	59	74	2	0.28	-0.44	0.20	4.68	168	11.98	126	92	38	1	0	2	0
KS TOPEKA	84	67	89	60	75	0	0.82	-0.44	0.51	3.23	66	21.34	127	97	63	0			

Weather Data for the Week Ending June 26, 1999

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN. SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE
KY WICHITA	82	66	90	62	74	-4	2.00	1.02	0.98	6.69	177	23.51	166	98	61	1	0	4	2
KY JACKSON	83	64	86	59	73	0	0.41	-0.60	0.41	1.71	47	20.42	83	84	50	0	0	1	0
KY LEXINGTON	86	66	89	60	76	2	0.94	0.07	0.83	3.01	96	18.89	86	83	48	0	0	4	1
KY LOUISVILLE	86	70	89	68	78	3	1.23	0.42	1.14	2.03	68	23.02	102	82	51	0	0	3	1
KY PADUCAH	84	68	89	64	76	-1	3.47	2.56	1.55	7.20	205	28.98	114	97	59	0	0	4	2
LA BATON ROUGE	88	72	91	68	80	-2	3.98	2.87	1.99	6.67	176	25.16	86	98	61	3	0	4	2
LA LAKE CHARLES	87	74	91	70	81	-1	3.97	2.84	3.20	9.86	228	24.79	100	98	66	1	0	5	2
LA NEW ORLEANS	88	75	92	73	82	1	5.71	4.29	3.32	12.25	244	24.64	82	91	62	3	0	5	2
LA SHREVEPORT	89	70	92	65	80	-1	5.40	4.45	3.03	7.79	207	38.11	158	96	55	4	0	4	3
ME CARIBOU	82	54	85	46	68	5	0.75	0.05	0.45	2.32	94	13.46	91	96	40	0	0	4	0
ME PORTLAND	81	57	89	52	69	5	0.35	-0.44	0.31	0.52	17	20.33	96	95	46	0	0	3	0
MD BALTIMORE	78	58	90	53	68	-6	0.92	0.07	0.84	1.88	59	16.68	85	97	51	1	0	2	1
MA BOSTON	83	64	91	59	73	4	0.00	-0.71	0.00	0.00	0	15.26	75	79	40	2	0	0	0
MA WORCESTER	80	60	86	54	70	4	0.00	-0.88	0.00	0.13	4	17.34	76	78	37	0	0	0	0
MI ALPENA	82	53	89	46	68	4	0.19	-0.53	0.17	2.43	92	9.87	78	94	42	0	0	3	0
MI GRAND RAPIDS	84	61	88	54	72	4	0.24	-0.62	0.20	1.90	59	17.04	109	93	49	0	0	3	0
MI HOUGHTON LAKE	83	52	87	47	68	3	0.68	-0.02	0.51	5.11	194	12.76	105	97	44	0	0	3	1
MI LANSING	86	58	89	52	72	4	1.78	0.91	1.78	2.55	79	14.25	103	90	45	0	0	1	1
MI MARQUETTE	80	57	87	48	68	7	0.29	-0.51	0.29	2.06	68	19.13	124	84	39	0	0	1	0
MI MUSKEGON	84	61	88	53	73	6	0.96	0.44	0.67	2.22	108	15.62	112	90	44	0	0	3	1
MN DULUTH	79	58	85	54	68	6	2.67	1.76	1.34	3.98	120	13.03	104	94	54	0	0	5	2
MN INT'L FALLS	80	55	83	45	68	4	0.78	-0.18	0.48	2.54	75	12.67	126	94	49	0	0	3	0
MN MINNEAPOLIS	86	65	91	61	75	5	0.50	-0.44	0.44	3.12	88	18.06	138	83	44	2	0	2	0
MN ROCHESTER	82	62	87	56	72	4	0.29	-0.60	0.27	2.28	71	17.95	142	89	50	0	0	2	0
MS ST. CLOUD	85	63	91	57	74	7	1.15	0.08	0.42	3.59	89	12.45	101	92	45	2	0	4	0
MS JACKSON	88	70	94	63	79	-1	2.75	2.03	1.95	3.63	133	23.56	81	93	52	2	0	3	2
MS MERIDIAN	87	67	92	58	77	-2	1.52	0.64	0.96	3.15	102	22.29	74	96	54	2	0	5	1
MS TUPELO	84	68	89	62	76	-3	5.27	4.42	2.40	6.35	190	39.18	131	95	54	0	0	4	3
MO COLUMBIA	84	66	87	58	75	1	0.74	-0.21	0.74	2.48	65	17.60	92	95	56	0	0	1	1
MO KANSAS CITY	83	65	88	61	74	-1	2.07	1.00	2.05	4.85	118	24.44	144	97	61	0	0	2	1
MO SAINT LOUIS	84	69	89	62	77	0	0.51	-0.35	0.20	5.25	164	22.20	122	92	49	0	0	4	0
MO SPRINGFIELD	82	66	87	61	74	-1	0.86	-0.28	0.51	2.23	50	24.86	119	98	63	0	0	3	1
MT BILLINGS	84	55	94	47	69	2	0.23	-0.18	0.08	1.90	106	7.06	80	68	20	1	0	4	0
MT BUTTE	72	44	84	30	58	0	0.04	-0.44	0.03	2.08	110	7.55	119	84	26	0	1	2	0
MT GLASGOW	78	55	93	44	67	0	0.30	-0.19	0.17	2.46	134	8.73	163	85	30	1	0	5	0
MT GREAT FALLS	74	47	83	37	60	-3	0.53	0.03	0.34	1.64	77	6.55	76	82	30	0	0	3	0
MT KALISPELL	68	46	78	38	57	-3	0.76	0.28	0.20	1.46	74	7.09	83	94	39	0	0	5	0
MT MILES CITY	86	58	99	49	72	3	0.40	-0.22	0.32	1.78	73	6.74	88	73	26	3	0	2	0
MT MISSOULA	70	46	82	36	58	-4	0.75	0.37	0.27	2.71	170	6.19	84	92	35	0	0	6	0
NE GRAND ISLAND	83	63	87	58	73	-1	1.48	0.61	1.08	4.91	143	15.69	122	95	56	0	0	2	1
NE LINCOLN	85	64	89	62	74	0	0.71	-0.16	0.37	1.66	49	15.00	112	98	56	0	0	3	0
NE NORFOLK	82	64	86	61	73	1	0.40	-0.62	0.31	4.68	120	15.80	121	94	55	0	0	2	0
NE NORTH PLATTE	84	61	87	53	73	3	0.80	0.03	0.55	3.24	111	9.24	89	95	52	0	0	2	1
NE OMAHA	85	66	90	62	75	1	0.31	-0.55	0.20	1.79	53	18.06	128	96	55	1	0	2	0
NE SCOTTSBLUFF	90	57	99	52	74	4	0.23	-0.36	0.20	2.39	103	8.65	99	94	29	4	0	3	0
NE VALENTINE	87	61	92	53	74	4	0.36	-0.30	0.29	2.86	114	9.84	109	90	39	3	0	3	0
NV ELY	86	46	89	38	66	5	0.00	-0.19	0.00	1.50	192	3.93	75	53	13	0	0	0	0
NV LAS VEGAS	104	79	108	74	91	4	0.00	-0.03	0.00	0.16	160	0.96	49	19	10	7	0	0	0
NV RENO	89	57	94	48	73	5	0.00	-0.09	0.00	0.06	15	2.96	69	48	15	2	0	0	0
NV WINNEMUCCA	88	47	95	36	67	1	0.00	-0.18	0.00	1.16	151	4.52	98	62	13	3	0	0	0
NH CONCORD	85	55	90	51	70	4	0.99	0.25	0.91	1.22	44	15.88	96	97	33	1	0	3	1
NJ NEWARK	84	63	94	57	73	-1	0.24	-0.52	0.12	0.41	15	20.13	96	94	47	1	0	2	0
NM ALBUQUERQUE	90	62	96	56	76	0	0.03	-0.14	0.02	0.52	108	2.87	99	55	19	5	0	2	0
NY ALBANY	84	58	89	52	71	2	0.12	-0.71	0.11	1.04	33	14.93	87	90	32	0	0	2	0
NY BINGHAMTON	79	57	85	51	68	2	0.31	-0.54	0.29	0.91	29	13.85	81	88	35	0	0	2	0
NY BUFFALO	83	61	87	55	72	4	0.24	-0.58	0.24	1.26	41	15.60	93	81	42	0	0	1	0
NY ROCHESTER	84	57	88	52	70	4	0.57	-0.12	0.57	1.47	56	14.15	98	89	36	0	0	1	1
NY SYRACUSE	85	58	91	54	71	4	0.71	-0.20	0.71	1.31	40	14.43	84	86	32	1	0	1	1
NC ASHEVILLE	75	62	79	57	69	-2	1.89	0.90	0.78	3.47	94	20.94	90	96	69	0	0	3	2
NC CHARLOTTE	77	62	85	58	70	-8	1.27	0.48	0.69	4.47	153	17.59	82	99	72	0	0	4	2
NC GREENSBORO	74	62	81	58	68	-6	0.86	-0.04	0.71	2.34	71	16.56	81	95	63	0	0	5	1
NC HATTERAS	78	69	84	67	74	-2	2.05	1.07	1.25	3.34	94	24.57	99	94	75	0	0	2	2
NC RALEIGH	78	61	88	54	70	-6	0.26	-0.59	0.08	1.22	38	16.75	81	99	60	0	0	6	0
NC WILMINGTON	82	69	89	63	76	-2	0.52	-1.00	0.44	3.66	72	26.30	111	90	64	0	0	3	0
ND BISMARCK	84	59	94	53	71	5	1.22	0.59	0.94	2.99	127	13.34	169	91	45	1	0	2	1
ND DICKINSON	82	55	90	47	69	3	0.31	-0.43	0.26	1.17	41	8.67	100	93	39	1	0	2	0
ND FARGO	84	61	92	56	72	5	1.29	0.63	0.88	2.32	95	10.02	112	89	47	1	0	4	2
ND GRAND FORKS	81	58	90	52	70	4	1.99	1.30	0.81	3.28	134	12.45	156	95	53	1	0	4	3
ND JAMESTOWN	81	59	89	54	70	3	0.86	0.12	0.49	2.24	87	11.94	151	94	51	0	0	4	0
ND WILLISTON	81	53	89	43	67	1	0.19	-0.35	0.12	1.81	92	8.11	118	88	34	0	0	4	0
OH AKRON-CANTON	83	61	89	54	72	2	0.02	-0.73	0.02	0.86	32	15.49	89	84	51	0	0	1	0
OH CINCINNATI	85	65	88	59	75	3	0.86	-0.03	0.69	2.38	72	17.55	84	85	47	0	0	2	1
OH CLEVELAND	83	60	89	52	72	2	0.00	-0.85	0.00	1.09	34	13.88	82	82	43	0	0	0	0
OH COLUMBUS	87	65	93	58	76	6	0.00	-0.96	0.00	0.36	10	14.32	78	78	39	2	0	0	0
OH DAYTON	85	64	88	56	74	2	0.04	-0.84	0.04	2.25	68	17.26	94	79	43	0	0	1	0
OH MANSFIELD	83	59	88	51	71	1	0.01	-0.90	0.01	1.52	44	17.45	93	87	42	0	0	1	0

Based on 1961-90 normals

Weather Data for the Week Ending June 26, 1999

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																90 AND ABOVE	32 AND BELOW	0.1 INCH OR MORE	5.0 INCH OR MORE
OK TOLEDO	86	59	90	54	73	3	0.19	-0.69	0.12	1.00	31	17.06	112	94	37	1	0	4	0
OK YOUNGSTOWN	82	55	88	47	69	1	0.40	-0.54	0.40	1.78	52	18.74	108	88	42	0	0	1	0
OK OKLAHOMA CITY	84	69	90	66	76	-2	3.18	2.28	1.38	9.04	235	25.53	148	97	70	1	0	6	3
OK TULSA	84	68	90	65	76	-4	1.76	0.82	1.00	4.83	123	29.41	146	97	65	1	0	4	1
OR ASTORIA	63	54	66	51	58	0	1.21	0.71	0.66	3.35	156	53.19	154	95	70	0	0	7	1
OR BURNS	75	42	81	34	58	-2	0.20	0.03	0.09	0.30	41	5.35	105	85	30	0	0	3	0
OR EUGENE	70	48	82	44	59	-4	0.37	0.09	0.23	0.69	53	27.03	105	93	47	0	0	4	0
OR MEDFORD	80	53	93	49	67	-2	0.00	-0.11	0.00	0.00	0	9.88	108	79	27	1	0	0	0
OR PENDLETON	77	52	84	47	64	-4	0.51	0.38	0.45	0.53	93	5.07	78	85	32	0	0	3	0
OR PORTLAND	68	54	80	52	61	-4	1.40	1.10	0.67	2.05	153	24.95	135	91	55	0	0	5	1
PA SALEM	69	51	82	49	60	-3	1.08	0.81	0.35	1.55	129	30.87	154	94	51	0	0	5	0
PA ALLENTOWN	83	55	92	52	69	-3	0.12	-0.74	0.09	0.95	32	16.79	84	95	39	1	0	3	0
PA ERIE	82	62	88	56	72	4	0.52	-0.43	0.51	1.89	53	17.85	101	76	40	0	0	2	1
PA MIDDLETOWN	85	60	94	56	73	0	0.04	-0.83	0.04	1.87	56	15.85	80	91	39	1	0	1	0
PA PHILADELPHIA	80	61	89	57	71	-3	0.69	-0.20	0.57	1.13	35	20.01	100	95	50	0	0	2	1
PA PITTSBURGH	83	58	90	52	71	1	0.00	-0.88	0.00	0.53	17	17.36	95	81	37	1	0	0	0
PA WILKES-BARRE	82	58	89	55	70	1	0.00	-0.94	0.00	1.17	35	14.92	89	87	34	0	0	0	0
PA WILLIAMSPORT	84	58	92	54	71	1	0.00	-1.02	0.00	1.47	39	16.43	85	92	38	1	0	0	0
RI PROVIDENCE	84	60	92	53	72	3	0.01	-0.75	0.01	0.17	6	21.50	96	87	37	1	0	1	0
SC BEAUFORT	83	67	88	62	75	-5	1.29	-0.21	1.28	6.55	125	19.42	84	97	64	0	0	2	1
SC CHARLESTON	83	67	88	64	75	-4	0.33	-1.26	0.25	1.39	25	14.79	64	96	60	0	0	2	0
SC COLUMBIA	81	65	86	58	73	-6	2.67	1.49	2.41	4.30	105	17.94	73	96	63	0	0	3	1
SC GREENVILLE	78	65	85	61	72	-5	0.80	-0.33	0.52	4.13	100	18.46	70	94	60	0	0	2	1
SD ABERDEEN	83	60	90	54	72	3	0.11	-0.63	0.09	3.45	127	9.92	107	93	52	1	0	2	0
SD HURON	84	64	88	57	74	4	0.36	-0.42	0.31	2.23	76	9.25	87	92	52	0	0	4	0
SD RAPID CITY	81	56	90	48	68	1	0.30	-0.39	0.24	4.88	181	12.22	133	89	48	1	0	3	0
SD SIOUX FALLS	85	65	90	62	75	4	0.03	-0.75	0.03	1.71	58	14.01	124	89	46	1	0	1	0
TN BRISTOL	82	61	86	53	72	-1	1.59	0.75	1.36	2.76	91	17.92	87	93	51	0	0	3	1
TN CHATTANOOGA	84	68	89	59	76	-1	1.36	0.52	1.10	4.36	144	31.13	113	91	53	0	0	3	1
TN KNOXVILLE	85	65	88	54	75	0	2.86	1.91	2.21	3.26	95	25.98	106	93	52	0	0	4	1
TN MEMPHIS	86	71	91	68	79	-2	2.09	1.29	1.58	2.32	74	30.86	114	90	57	2	0	3	1
TN NASHVILLE	86	68	89	61	77	-1	0.72	-0.08	0.36	2.29	74	24.40	99	89	48	0	0	3	0
TX ABILENE	86	70	93	66	78	-4	1.54	0.91	1.47	3.27	130	11.39	104	93	57	2	0	3	1
TX AMARILLO	86	62	93	57	74	-2	2.40	1.54	1.30	3.66	114	18.29	209	95	41	3	0	4	2
TX AUSTIN	87	73	92	69	80	-2	1.56	0.80	0.83	4.04	121	16.23	99	98	68	3	0	4	1
TX BEAUMONT	88	75	90	73	81	0	3.84	2.56	2.80	9.62	198	21.47	84	96	70	2	0	6	1
TX BROWNSVILLE	91	77	93	75	84	1	1.74	1.15	0.91	1.99	82	10.50	104	95	64	6	0	4	1
TX CORPUS CHRISTI	89	76	92	73	82	0	2.46	1.72	1.36	6.04	203	12.15	96	99	71	5	0	7	1
TX DEL RIO	89	75	93	72	82	-2	1.21	0.71	0.75	5.55	302	10.95	135	97	64	2	0	6	1
TX EL PASO	96	71	103	67	83	1	0.12	-0.08	0.12	1.18	223	1.33	62	69	24	6	0	1	0
TX FORT WORTH	90	73	95	72	82	-1	0.88	0.28	0.42	0.94	35	15.36	86	92	54	2	0	5	0
TX GALVESTON	88	79	89	74	84	2	1.42	0.38	0.75	2.22	58	11.33	64	86	69	0	0	5	1
TX HOUSTON	89	75	92	72	82	1	2.19	1.10	0.93	5.32	121	16.87	77	97	64	4	0	6	1
TX LUBBOCK	87	65	97	62	76	-2	0.98	0.35	0.44	4.42	183	13.74	180	91	48	3	0	4	0
TX MIDLAND	89	68	100	66	79	-2	0.15	-0.19	0.09	2.89	214	5.74	99	89	43	3	0	3	0
TX SAN ANGELO	85	71	93	67	78	-3	0.86	0.40	0.66	4.86	231	11.20	117	95	57	2	0	4	1
TX SAN ANTONIO	87	73	91	70	80	-4	2.70	1.89	1.28	3.44	101	10.70	71	96	63	4	0	4	2
TX VICTORIA	86	73	90	72	80	-3	1.81	0.72	0.59	4.86	113	17.61	104	100	75	1	0	6	1
TX WACO	93	74	97	71	84	1	0.38	-0.29	0.16	0.51	19	11.22	68	95	46	6	0	5	0
TX WICHITA FALLS	89	71	94	70	80	-2	1.46	0.73	1.02	4.59	146	22.08	148	94	62	4	0	4	1
UT SALT LAKE CITY	87	62	97	57	74	3	0.00	-0.19	0.00	0.83	100	9.49	105	59	19	3	0	0	0
VT BURLINGTON	86	60	92	54	73	6	0.09	-0.74	0.08	1.19	40	11.19	77	85	29	2	0	2	0
VA LYNCHBURG	76	57	85	50	67	-7	0.16	-0.65	0.12	0.64	21	13.82	71	95	53	0	0	4	0
VA NORFOLK	78	64	90	59	71	-5	0.62	-0.31	0.60	3.45	106	20.09	95	97	62	1	0	2	1
VA RICHMOND	77	59	89	53	68	-7	0.54	-0.34	0.37	1.90	62	17.46	88	99	59	0	0	2	0
VA ROANOKE	77	60	88	54	69	-4	0.10	-0.63	0.07	0.88	32	14.48	76	91	49	0	0	3	0
VA WASH/DULLES	79	56	90	50	68	-5	0.82	-0.07	0.80	2.32	68	18.67	97	98	48	1	0	2	1
WA OLYMPIA	65	52	71	48	58	-2	1.20	0.86	0.94	1.80	123	40.27	157	95	58	0	0	5	1
WA QUILLAYUTE	59	49	63	46	54	-2	0.98	0.34	0.44	4.05	146	70.45	130	99	80	0	0	6	0
WA SEATTLE-TACOMA	64	52	69	50	58	-4	1.62	1.30	1.21	1.95	147	22.90	125	95	60	0	0	5	1
WA SPOKANE	71	50	77	44	60	-4	1.42	1.15	0.90	1.80	159	8.80	101	82	32	0	0	3	1
WA YAKIMA	77	50	82	39	63	-3	0.22	0.11	0.14	0.23	48	3.49	85	81	31	0	0	5	0
WV BECKLEY	77	59	84	54	68	1	0.03	-0.89	0.03	0.54	16	16.90	85	89	50	0	0	1	0
WV CHARLESTON	87	60	91	53	74	1	0.03	-0.84	0.03	0.69	23	15.80	79	87	40	1	0	1	0
WV ELKINS	81	51	86	43	66	0	0.00	-1.05	0.00	1.34	35	20.37	94	95	41	0	0	0	0
WV HUNTINGTON	88	61	93	56	74	2	0.01	-0.82	0.01	0.45	15	14.85	74	89	37	2	0	1	0
WI EAU CLAIRE	88	63	94	60	76	7	0.74	-0.23	0.50	3.03	83	17.54	128	85	38	3	0	2	1
WI GREEN BAY	84	58	88	51	71	4	0.59	-0.21	0.59	3.17	108	11.70	94	94	48	0	0	1	1
WI LACROSSE	89	65	94	61	77	7	0.28	-0.66	0.20	1.04	31	15.81	118	82	38	3	0	2	0
WI MADISON	84	61	90	55	72	4	0.60	-0.25	0.37	4.45	141	18.57	138	89	46	1	0	2	0
WI MILWAUKEE	80	63	85	56	72	4	0.46	-0.32	0.41	6.43	230	23.02	155	91	55	0	0	3	0
WY CASPER	84	52	90	44	68	3	0.04	-0.27	0.04	1.62	126	6.41	91	76	23	1	0	1	0
WY CHEYENNE	81	54	86	49	68	4	0.17	-0.30	0.16	2.08	115	10.09	137	77	25	0	0	2	0
WY LANDER	82	52	88	44	67	2	0.00	-0.29	0.00	1.30	99	10.16	128	58	20	0	0	0	0
WY SHERIDAN	82	49	92	42	66	2	0.02	-0.45	0.01	1.41	70	8.26	97	82	31	2	0	2	0

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

National Agricultural Summary

June 21 - 27, 1999

HIGHLIGHTS

Thunderstorms delivered heavy rain to many areas in the central and southern United States, while the Rocky Mountains and most areas along the Atlantic and Pacific coasts received little or no rain. Widespread heavy rains limited wheat harvest and other field activities in the southern Great Plains. Rain also delayed fieldwork in the lower Mississippi Valley and parts of the Southeast, but rejuvenated diminishing moisture supplies. Scattered showers eased moisture shortages in parts of the Atlantic Coastal Plains, but many areas remained

excessively dry. Most areas of the Corn Belt received enough rainfall to maintain adequate moisture for crop development, but soil moisture was very short in Ohio. Some areas in the western Corn Belt remained excessively wet. Above-normal temperatures stimulated crop development in the Corn Belt and northern Great Plains. Cool weather and cloudy skies hindered development in the central and southern Great Plains and parts of the lower Mississippi Valley and Southeast.

Corn: Four percent of the corn acreage was at the silking stage or beyond, equal to last year and the average for this date. Conditions deteriorated in the eastern Corn Belt due to increasing dryness. Soils in Ohio were mostly short or very short of moisture, while scattered showers partially alleviated moisture shortages in Indiana. In the central and western Corn Belt, mostly adequate moisture supplies, combined with above-normal temperatures, aided crop growth and improved conditions. Despite the improved conditions, some fields in Iowa and Minnesota continued to have a yellow appearance due to lingering pockets of wetness. Weed pressure increased in the wetter areas of the Corn Belt, where spraying and cultivating efforts were hampered by muddy fields. In Kansas, cool, wet weather and lingering cloudiness hampered development and promoted diseases. Rain aided development in Texas and a late-week warmup accelerated ripening. Harvest began in southern Texas, but was limited by showers.

Soybeans: Planting was nearly complete, at 97 percent, compared with 96 percent last year and 94 percent normally planted by this date. Planting remained active in the Ohio Valley and Atlantic Coastal Plains, but wet conditions prevented progress in Kansas. Ninety-four percent of the soybean crop was emerged, slightly ahead of last year and ahead of normal in most areas of the Corn Belt and Mississippi Delta. Soaking rains recharged soil moisture and aided emergence and development in the Southeast and lower Mississippi Valley. Warmer weather and good moisture supplies assisted emergence in South Dakota. Topsoil moisture was excessive in parts of Kansas, but crop emergence benefitted from seasonal temperatures. Six percent of the acreage was blooming, equal to last year and ahead of the 3 percent normal progress. Crop development was most advanced in the Mississippi Valley, Southeast, and eastern Corn Belt. Half of Mississippi's acreage was blooming, while progress in Ohio led the Corn Belt States. Conditions improved in the Southeast due to beneficial precipitation. Warmer weather and adequate moisture aided development in the western Corn Belt. Excessive dryness stressed fields in the eastern Corn Belt, especially in Ohio, where most soils are very dry.

Winter Wheat: Harvest advanced to 24 percent complete, well behind last year's 49 percent and 12 percentage points behind the 5-year average. Rain hampered progress in the southern and central Great Plains early in the week. In Oklahoma and Texas, harvesting resumed late in the week, when warmer, drier weather allowed growers to return to the fields. The harvest was active in North Carolina with minimal rain delays. The harvest pace slowed in Georgia as progress neared completion. Harvesting rapidly

advanced in the Corn Belt despite midweek rain delays. In Illinois, more than one-third of the crop was harvested and Indiana growers combined nearly one-fourth of their wheat acreage. Warm, dry weather quickly ripened fields in Ohio, where over half of the acreage reached maturity, and Michigan, where most fields were turning color. In the northern Great Plains, fields rapidly progressed to the heading stage, and nearly half of the acreage was turning color in South Dakota. Cool weather hindered development in the northern Rocky Mountains and Pacific Northwest.

Cotton: Half of the cotton acreage was in the squaring stage or beyond, compared with 57 percent last year and the average progress of 53 percent. Ten percent was setting bolls, slightly behind last year's 15 percent and the 12 percent average for this date. Fields rapidly progressed in the Mississippi Delta States, especially in Arkansas, Missouri, and Tennessee, where more than one-fourth of the acreage entered the squaring stage. In Missouri, one-third of the acreage was setting bolls, while nearly one-fourth of the crop was setting bolls in Mississippi. Fields also rapidly developed in the Southeast and Atlantic Coastal Plains after rains recharged topsoil moisture. Excessive rain and below normal temperatures hindered development in the southern Great Plains.

Small grains: Spring wheat was 28 percent headed, slightly ahead of the 5-year average, but well behind last year's rapid development. Twenty-four percent of the barley acreage was headed, 11 percentage points behind last year's pace, and slightly behind the 28 percent average for this date. Oats headed advanced 19 percentage points, to 57 percent, behind last year's rapid development, but 10 percentage points ahead of the 5-year average. Warm weather and sunny skies aided development of small grains in the northern Great Plains and Corn Belt.

Rice: Thirteen percent of the crop was headed, slightly ahead of last year and nearly a week ahead of the normal progress of 7 percent. Development was most advanced along the western Gulf Coast region.

Other crops: Sorghum planting was 90 percent complete, compared with 93 percent last year and 94 percent normally planted by this date. Twenty-four percent of the peanut acreage was pegging, well behind last year's 35 percent.

Crop Progress and Condition

Week Ending June 27, 1999

Soybeans Percent Planted				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AL	92	85	94	87
AR	91	84	95	90
GA	91	81	80	89
IL	99	97	94	95
IN	100	99	92	93
IA	100	100	100	99
KS	85	85	98	93
KY	93	78	61	69
LA	100	99	98	95
MI	100	99	100	97
MN	99	98	99	99
MS	99	98	98	96
MO	88	85	97	88
NE	99	98	100	100
NC	75	65	83	78
OH	100	100	100	97
SC	83	76	92	86
SD	98	96	100	97
TN	96	87	83	75
19 Sts	97	94	96	94
These 19 States planted 93% of last year's soybean acreage.				

Soybeans Percent Blooming				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AL	2	NA	5	4
AR	7	NA	11	6
GA	10	NA	5	6
IL	8	NA	2	2
IN	8	NA	0	0
IA	2	NA	9	4
KS	0	NA	11	5
KY	2	NA	0	1
LA	19	NA	33	17
MI	2	NA	2	1
MN	0	NA	0	1
MS	50	NA	41	24
MO	4	NA	3	2
NE	0	NA	0	1
NC	5	NA	4	2
OH	10	NA	6	2
SC	5	NA	11	5
SD	3	NA	5	2
TN	2	NA	1	1
19 Sts	6	NA	6	3
These 19 States planted 93% of last year's soybean acreage.				

Corn Percent Silking				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
CO	0	0	0	0
GA	90	83	82	88
IL	2	0	2	1
IN	0	0	0	0
IA	0	0	0	0
KS	1	0	9	4
KY	3	1	7	3
MI	0	0	0	0
MN	0	0	0	0
MO	12	8	12	6
NE	0	0	0	0
NC	35	30	42	36
OH	0	0	0	0
PA	0	0	0	0
SD	0	0	0	0
TX	57	55	54	56
WI	0	0	0	0
17 Sts	4	3	4	4
These 17 States planted 90% of last year's corn acreage.				

Soybeans Percent Emerged				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AL	84	70	83	NA
AR	82	71	86	78
GA	82	67	68	NA
IL	97	93	90	NA
IN	100	99	89	NA
IA	99	96	100	97
KS	80	70	95	NA
KY	85	76	56	63
LA	99	93	94	92
MI	100	98	94	92
MN	98	95	99	98
MS	97	94	93	91
MO	86	79	86	NA
NE	94	91	100	96
NC	65	60	74	NA
OH	100	100	97	87
SC	65	63	81	44
SD	96	83	97	NA
TN	83	76	73	NA
19 Sts	94	89	92	NA
These 19 States planted 93% of last year's soybean acreage.				

Winter Wheat Percent Harvested				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AR	88	77	97	83
CA	45	30	37	61
CO	0	0	9	6
GA	99	96	99	96
ID	0	0	0	0
IL	46	11	51	24
IN	36	12	23	13
KS	7	2	63	36
MI	0	0	1	0
MO	36	23	51	33
MT	0	0	0	0
NE	0	0	3	4
NC	75	55	82	73
OH	6	1	4	1
OK	59	51	97	82
OR	0	0	0	0
SD	0	0	0	0
TX	58	42	85	70
WA	0	0	0	0
19 Sts	24	17	49	36
These 19 States planted 91% of last year's winter wheat acreage.				

Sorghum Percent Planted				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CO	94	90	90	92
IL	98	97	65	81
KS	90	87	98	95
LA	100	100	100	100
MS	100	100	100	100
MO	94	91	99	95
NE	99	97	100	99
NM	90	85	57	86
OK	89	71	89	86
SD	92	86	94	91
TX	86	80	90	94
12 Sts	90	85	93	94
These 12 States planted 99% of last year's sorghum acreage.				

Crop Progress and Condition

Week Ending June 27, 1999

Cotton Percent Squaring				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AL	50	40	65	61
AZ	74	56	74	85
AR	85	59	88	76
CA	45	40	14	38
GA	64	43	68	72
LA	86	72	91	82
MS	87	74	92	83
MO	98	71	72	58
NM	55	35	47	50
NC	42	35	53	39
OK	3	3	12	14
SC	46	27	44	49
TN	84	50	75	62
TX	29	22	46	40
14 Sts	50	38	57	53

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

Cotton Percent Setting Bolls				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AL	3	NA	8	5
AZ	2	NA	8	33
AR	1	NA	8	5
CA	1	NA	1	3
GA	12	NA	25	15
LA	7	NA	22	18
MS	22	NA	21	16
MO	33	NA	3	3
NM	0	NA	0	0
NC	8	NA	2	5
OK	0	NA	0	0
SC	5	NA	7	8
TN	1	NA	10	4
TX	12	NA	19	14
14 Sts	10	NA	15	12

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

Peanuts Percent Pegging				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AL	23	17	38	29
FL	58	50	41	NA
GA	36	21	46	43
NC	10	5	39	12
OK	14	5	30	21
SC	17	9	14	14
TX	10	3	17	9
VA	7	0	24	7
8 Sts	24	15	35	NA

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

Oats Percent Headed				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
IA	96	88	83	78
MI	76	64	84	52
MN	63	27	71	53
NE	92	67	92	80
ND	12	4	25	12
OH	93	85	91	70
PA	86	65	76	65
SD	50	23	66	44
WI	69	40	88	56
9 Sts	57	38	65	47

These 9 States planted 57% of last year's oat acreage.

Spring Wheat Percent Headed				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
ID	26	19	20	32
MN	54	21	52	34
MT	15	4	33	20
ND	17	0	31	17
SD	64	36	72	46
5 Sts	28	9	39	24

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

Barley Percent Headed				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
ID	30	24	24	31
MN	37	13	53	37
MT	17	3	21	16
ND	11	0	28	17
SD	54	30	67	41
WA	61	45	94	83
6 Sts	24	11	35	28

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

Rice Percent Headed				
	Jun 27 1999	Prev Week	Prev Year	5-Yr Avg
AR	0	0	5	1
CA	0	0	0	0
LA	47	21	35	23
MS	3	2	10	5
TX	35	23	20	17
5 Sts	13	6	12	7

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

Winter Wheat Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	2	11	59	28
CA	0	0	15	60	25
CO	4	5	14	45	32
GA	14	19	26	34	7
ID	0	2	14	63	21
IL	0	3	25	55	17
IN	0	2	16	53	29
KS	2	7	25	56	10
MI	1	2	27	60	10
MO	2	8	28	52	10
MT	2	6	24	51	17
NE	0	5	20	55	20
NC	0	8	18	70	4
OH	0	3	16	56	25
OK	0	7	21	65	7
OR	26	30	31	10	3
SD	0	0	12	56	32
TX	9	6	31	37	17
WA	7	13	38	40	2
19 Sts	3	7	24	51	15
Prev Wk	3	6	22	54	15
Prev Yr	1	6	25	52	16

Soybeans Crop Condition by Percent					
	VP	P	F	G	EX
AL	0	1	14	74	11
AR	0	3	32	54	11
GA	9	17	44	27	3
IL	0	3	20	58	19
IN	0	2	22	59	17
IA	2	5	21	51	21
KS	1	5	25	57	12
KY	0	3	23	57	17
LA	0	3	38	52	7
MI	1	4	26	55	14
MN	2	6	31	54	7
MS	1	4	22	54	19
MO	1	9	34	49	7
NE	1	2	15	62	20
NC	1	9	24	59	7
OH	2	7	32	48	11
SC	1	4	37	56	2
SD	1	5	18	56	20
TN	0	5	30	51	14
19 Sts	1	5	25	54	15
Prev Wk	1	4	26	55	14
Prev Yr	3	8	29	50	10

Crop Progress and Condition

Week Ending June 27, 1999

Corn Crop Condition by Percent

	VP	P	F	G	EX
CO	1	1	5	36	57
GA	18	21	29	28	4
IL	0	2	13	56	29
IN	0	2	18	58	22
IA	2	4	19	49	26
KS	1	3	16	68	12
KY	1	2	19	59	19
MI	1	4	19	60	16
MN	2	4	26	58	10
MO	1	8	33	50	8
NE	0	2	12	57	29
NC	3	6	30	56	5
OH	2	7	29	51	11
PA	1	5	40	51	3
SD	1	3	17	58	21
TX	1	3	18	58	20
WI	1	3	16	50	30
17 Sts	1	3	19	55	22
Prev Wk	1	4	20	55	20
Prev Yr	3	7	23	51	16

Cotton Crop Condition by Percent

	VP	P	F	G	EX
AL	0	2	17	66	15
AZ	1	10	33	41	15
AR	0	4	25	58	13
CA	0	0	40	60	0
GA	5	11	34	38	12
LA	0	3	24	59	14
MS	1	3	21	53	22
MO	0	0	26	65	9
NM	0	3	35	38	24
NC	0	9	23	63	5
OK	0	0	37	58	5
SC	3	6	37	51	3
TN	0	4	26	52	18
TX	11	19	30	32	8
14 Sts	5	11	29	45	10
Prev Wk	5	11	28	47	9
Prev Yr	11	18	31	35	5

Oats Crop Condition by Percent

	VP	P	F	G	EX
IA	0	3	18	59	20
MI	1	4	24	62	9
MN	1	8	33	51	7
NE	0	1	11	49	39
ND	0	2	24	62	12
OH	2	7	27	55	9
PA	2	21	36	39	2
SD	0	1	11	69	19
WI	0	6	15	61	18
9 Sts	0	5	21	59	15
Prev Wk	0	4	19	61	16
Prev Yr	0	4	23	58	15

Peanuts Crop Condition by Percent

	VP	P	F	G	EX
AL	0	2	14	58	26
FL	0	0	8	92	0
GA	2	9	35	42	12
NC	0	2	10	86	2
OK	0	10	34	42	14
SC	0	4	37	56	3
TX	2	7	22	48	21
VA	0	1	12	52	35
8 Sts	1	6	24	53	16
Prev Wk	2	6	27	54	11
Prev Yr	7	15	36	36	6

Rice Crop Condition by Percent

	VP	P	F	G	EX
AR	0	2	22	55	21
CA	0	0	20	80	0
LA	0	1	22	57	20
MS	1	2	23	58	16
TX	0	0	19	59	22
5 Sts	0	1	22	60	17
Prev Wk	0	2	23	55	20
Prev Yr	0	7	29	53	11

Barley Crop Condition by Percent

	VP	P	F	G	EX
ID	0	1	10	67	22
MN	9	18	30	40	3
MT	1	5	29	51	14
ND	0	3	25	61	11
SD	0	1	11	68	20
WA	10	26	50	14	0
6 Sts	2	7	26	53	12
Prev Wk	2	6	29	50	13
Prev Yr	1	6	27	49	17

Spring Wheat Crop Condition by Percent

	VP	P	F	G	EX
ID	0	0	12	65	23
MN	7	10	26	51	6
MT	0	3	21	58	18
ND	1	3	24	60	12
SD	0	4	11	58	27
5 Sts	1	4	21	59	15
Prev Wk	1	3	21	59	16
Prev Yr	2	7	30	48	13

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

Crop Progress and Condition

**CORRECTION: Last week's crop data was incorrect. The following is the corrected data.
Week Ending June 20, 1999**

Soybeans Percent Planted				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
AL	85	64	88	80
AR	84	72	88	81
GA	81	71	76	81
IL	97	96	91	88
IN	99	98	91	86
IA	100	97	99	97
KS	85	75	96	84
KY	78	74	55	55
LA	99	93	97	92
MI	99	97	97	94
MN	98	97	99	98
MS	98	95	96	94
MO	85	78	92	76
NE	98	96	100	97
NC	65	60	69	66
OH	100	100	99	90
SC	76	64	80	73
SD	96	92	98	91
TN	87	77	71	62
19 Sts	94	91	93	88
These 19 States planted 93% of last year's soybean acreage.				

Winter Wheat Percent Headed				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CA	100	99	99	99
CO	100	98	98	97
GA	100	100	100	100
ID	47	26	62	66
IL	100	99	100	98
IN	100	100	100	100
KS	100	100	100	100
MI	100	98	100	85
MO	100	100	100	100
MT	48	16	85	52
NE	100	97	100	98
NC	100	100	100	100
OH	100	100	100	98
OK	100	100	100	100
OR	87	79	97	97
SD	90	82	93	76
TX	100	100	100	100
WA	98	80	100	95
19 Sts	97	93	98	96
These 19 States planted 91% of last year's winter wheat acreage.				

Corn Percent Silking				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
CO	0	NA	0	0
GA	83	NA	75	80
IL	0	NA	0	0
IN	0	NA	0	0
IA	0	NA	0	0
KS	0	NA	0	1
KY	1	NA	0	0
MI	0	NA	0	0
MN	0	NA	0	0
MO	8	NA	5	1
NE	0	NA	0	0
NC	30	NA	22	15
OH	0	NA	0	0
PA	0	NA	0	0
SD	0	NA	0	0
TX	55	NA	51	50
WI	0	NA	0	0
17 Sts	3	NA	3	2
These 17 States planted 90% of last year's corn acreage.				

Soybeans Percent Emerged				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
AL	70	53	71	14
AR	71	57	76	68
GA	67	56	62	NA
IL	93	88	83	NA
IN	99	93	86	NA
IA	96	90	97	91
KS	70	53	93	NA
KY	76	65	46	47
LA	93	80	90	87
MI	98	90	89	84
MN	95	86	98	94
MS	94	89	86	86
MO	79	69	80	NA
NE	91	78	97	88
NC	60	50	64	NA
OH	100	99	92	76
SC	63	51	64	36
SD	83	66	92	NA
TN	76	64	57	NA
19 Sts	89	81	87	NA
These 19 States planted 93% of last year's soybean acreage.				

Winter Wheat Percent Harvested				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
AR	77	46	87	59
CA	30	20	19	41
CO	0	0	0	0
GA	96	90	96	91
ID	0	0	0	0
IL	11	0	14	6
IN	12	1	7	3
KS	2	0	31	16
MI	0	0	0	0
MO	23	7	25	14
MT	0	0	0	0
NE	0	0	0	0
NC	55	38	61	49
OH	1	1	0	0
OK	51	25	79	59
OR	0	0	0	0
SD	0	0	0	0
TX	42	35	70	54
WA	0	0	0	0
19 Sts	17	10	32	22
These 19 States planted 91% of last year's winter wheat acreage.				

Cotton Percent Squaring				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
AL	40	17	45	46
AZ	56	34	56	74
AR	59	27	58	50
CA	40	30	9	27
GA	43	29	57	57
LA	72	50	78	67
MS	74	41	75	68
MO	71	28	48	29
NM	35	12	20	23
NC	35	30	36	22
OK	3	*0	3	6
SC	27	14	29	30
TN	50	27	41	36
TX	22	14	30	26
14 Sts	38	23	41	37
These 14 States planted 98% of last year's cotton acreage.				

Crop Progress and Condition

**CORRECTION: Last week's crop data was incorrect. The following is the corrected data.
Week Ending June 20, 1999**

Sorghum Percent Planted				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
AR	100	99	100	100
CO	90	85	81	82
IL	97	*85	61	68
KS	87	83	95	86
LA	100	100	100	99
MS	100	100	100	100
MO	91	85	94	86
NE	97	87	100	96
NM	85	63	36	69
OK	71	40	70	73
SD	86	71	89	82
TX	80	71	86	90
12 Sts	85	77	89	87

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

Peanuts Percent Pegging				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
AL	17	7	24	16
FL	50	28	28	NA
GA	21	8	29	28
NC	5	0	29	7
OK	5	0	15	9
SC	9	5	9	5
TX	3	0	3	2
VA	0	0	3	1
8 Sts	15	6	20	NA

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

Oats Percent Headed				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
IA	88	32	54	49
MI	64	35	43	24
MN	27	3	42	24
NE	67	47	63	54
ND	4	0	6	3
OH	85	73	79	47
PA	65	42	46	40
SD	23	11	30	20
WI	40	9	54	26
9 Sts	38	17	37	25

These 9 States planted 57% of last year's oat acreage.

Spring Wheat Percent Emerged				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
ID	100	100	100	100
MN	98	92	99	99
MT	94	91	100	99
ND	95	87	100	97
SD	100	100	100	100
5 Sts	96	91	100	98

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

Spring Wheat Percent Headed				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
ID	19	10	13	21
MN	21	2	27	14
MT	4	0	18	6
ND	0	0	13	5
SD	36	10	35	21
5 Sts	9	2	19	9

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

Barley Percent Emerged				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
ID	100	95	100	99
MN	98	89	99	98
MT	97	94	100	99
ND	92	80	100	97
SD	100	99	100	99
WA	100	100	100	100
6 Sts	96	89	100	98

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

Barley Percent Headed				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
ID	24	10	19	21
MN	13	2	23	13
MT	3	1	14	6
ND	0	0	11	6
SD	30	17	29	18
WA	45	43	81	67
6 Sts	11	7	21	15

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

Rice Percent Headed				
	Jun 20 1999	Prev Week	Prev Year	5-Yr Avg
AR	0	NA	0	0
CA	0	NA	0	0
LA	21	NA	18	11
MS	2	NA	6	2
TX	23	NA	6	7
5 Sts	6	NA	5	3

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

Winter Wheat Crop Condition by Percent					
	VP	P	F	G	EX
AR	1	2	12	54	31
CA	0	0	15	60	25
CO	3	3	10	48	36
GA	14	19	26	34	7
ID	0	2	15	64	19
IL	0	3	25	55	17
IN	0	1	17	57	25
KS	1	5	22	59	13
MI	1	3	22	55	19
MO	1	7	33	51	8
MT	2	7	26	51	14
NE	0	3	17	68	12
NC	0	2	14	75	9
OH	0	2	18	55	25
OK	0	7	21	65	7
OR	20	22	33	21	4
SD	1	1	14	56	28
TX	5	8	31	39	17
WA	14	24	33	28	1
19 Sts	3	6	22	54	15
Prev Wk	2	6	22	55	15
Prev Yr	2	7	26	52	13

Rice Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	2	24	54	20
CA	0	0	30	70	0
LA	0	2	22	52	24
MS	1	3	12	60	24
TX	0	0	15	43	42
5 Sts	0	2	23	55	20
Prev Wk	0	2	23	56	19
Prev Yr	0	6	27	51	16

Crop Progress and Condition

**CORRECTION: Last week's crop data was incorrect. The following is the corrected data.
Week Ending June 20, 1999**

Soybeans Crop Condition by Percent					
	VP	P	F	G	EX
AL	0	1	30	60	9
AR	0	2	33	55	10
GA	13	20	44	22	1
IL	0	3	24	58	15
IN	0	1	19	61	19
IA	3	6	25	48	18
KS	0	3	22	68	7
KY	1	2	16	58	23
LA	1	3	36	55	5
MI	0	3	26	47	24
MN	2	8	34	50	6
MS	1	6	23	53	17
MO	2	6	35	50	7
NE	1	2	17	65	15
NC	2	4	19	67	8
OH	1	6	27	52	14
SC	1	7	45	46	1
SD	1	2	15	58	24
TN	1	4	28	57	10
19 Sts	1	4	26	55	14
Prev Wk	1	4	26	56	13
Prev Yr	2	7	29	51	11

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	0	2	26	59	13
AZ	0	11	36	41	12
AR	0	6	28	55	11
CA	0	0	30	70	0
GA	7	13	32	39	9
LA	1	5	25	60	9
MS	1	3	19	62	15
MO	0	1	30	62	7
NM	2	8	39	31	20
NC	0	3	24	72	1
OK	0	0	45	54	1
SC	3	12	37	45	3
TN	0	1	20	63	16
TX	10	19	28	33	10
14 Sts	5	11	28	47	9
Prev Wk	4	10	32	46	8
Prev Yr	12	16	30	35	7

Barley Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	0	10	61	29
MN	1	8	43	43	5
MT	0	2	37	48	13
ND	0	2	27	60	11
SD	0	1	11	65	23
WA	18	38	34	10	0
6 Sts	2	6	29	50	13
Prev Wk	1	8	31	50	10
Prev Yr	1	7	28	47	17

Spring Wheat Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	0	12	64	24
MN	3	7	35	51	4
MT	1	3	17	56	23
ND	0	3	23	63	11
SD	1	2	11	58	28
5 Sts	1	3	21	59	16
Prev Wk	1	5	23	59	12
Prev Yr	1	7	28	50	14

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

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	1	3	11	35	50
GA	18	22	31	23	6
IL	1	3	17	57	22
IN	0	1	16	59	24
IA	3	6	21	47	23
KS	0	3	15	69	13
KY	0	3	17	55	25
MI	1	4	19	59	17
MN	1	6	31	51	11
MO	1	8	36	48	7
NE	1	2	16	60	21
NC	1	8	33	54	4
OH	1	5	25	52	17
PA	1	6	35	52	6
SD	1	2	16	55	26
TX	0	3	24	55	18
WI	1	5	11	56	27
17 Sts	1	4	20	55	20
Prev Wk	1	4	20	56	19
Prev Yr	3	6	25	51	15

Oats Crop Condition by Percent					
	VP	P	F	G	EX
IA	1	4	20	54	21
MI	1	5	29	55	10
MN	0	7	25	54	14
NE	0	1	10	69	20
ND	0	1	20	69	10
OH	1	5	24	60	10
PA	2	13	36	45	4
SD	0	1	11	65	23
WI	0	4	14	60	22
9 Sts	0	4	19	61	16
Prev Wk	0	3	21	59	17
Prev Yr	1	5	25	57	12

Peanuts Crop Condition by Percent					
	VP	P	F	G	EX
AL	0	2	23	59	16
FL	0	2	35	63	0
GA	3	11	34	44	8
NC	0	0	3	96	1
OK	0	8	33	46	13
SC	0	7	53	38	2
TX	2	6	25	47	20
VA	0	2	13	74	11
8 Sts	2	6	27	54	11
Prev Wk	2	8	29	51	10
Prev Yr	5	13	34	37	11

State Agricultural Summaries

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

ALABAMA: Days suitable for fieldwork 3.9. Topsoil 1% very short, 5% short, 65% adequate, 29% surplus. Significant amounts of rain fell across the State. Rain arrived at a time most beneficial for dryland corn. Showers reduced time in the field, impeded weed and other pest control. Another week of cooler temperatures across the state slowed cotton progress. Corn silked 67%, 64% 1998, 58% avg.; 13% dented, 6% average. Cotton 50% squaring, 65% 1998, 61% avg.; 3% setting bolls, 8% 1998, 5% avg. Soybeans 99% planted, 94% 1998, 87% avg.; 84% emerged, 83% 1998; 2% blooming, 5% 1998, 4% avg. Peanuts 23% pegged, 38% 1998, 29% avg. Wheat 83% harvested, 94% 1998, 80% avg. Hay 93% harvested, 97% 1998, 91% avg. Corn 1% very poor, 1% poor, 13% fair, 64% good, 21% excellent. Cotton 2% poor, 17% fair, 66% good, 15% excellent. Soybean 1% poor, 14% fair, 74% good, 11% excellent. Peanuts 2% poor, 14% fair, 58% good, 26% excellent. Pasture feed 1% very poor, 4% poor, 16% fair, 60% good, 19% excellent. Livestock 2% poor, 14% fair, 64% good, 20% excellent. Watermelon harvest underway. Pumpkin planting begun.

ALASKA: Days suitable for fieldwork 4.4. Topsoil 20% short, 80% adequate. Subsoil 30% short, 70% adequate. Scattered showers with cool, cloudy conditions prevailed for the week. Daytime high temperatures mostly in the 60s. Lows were mostly in the 40s, although 28° was reported in the Kenny Lake area on 21st. Oats 90% pre-boot, 10% boot. Barley 75% pre-boot, 25% boot, 20% poor, 55% fair, 15% good, 10% excellent. Small grain for silage 10% poor, 45% fair, 35% good, 10% excellent. Small grain height 9.6", 8.8" 1998. Potatoes 75% emerged, 75% 1998; height 5.0". Crop growth 70% moderate, 30% rapid. Range, pasture feed 15% poor, 40% fair, 40% good, 5% excellent. Major activities included: Spraying fields for weeds, cutting hay, machinery repair.

ARIZONA: Cotton squaring is even with 1998, still remains behind average. As of June 27, cotton 74% squared, same as 1998, one week behind the average of 85%. Small grains harvest continues. As of June 27, 88% durum wheat, 83% other wheat, 90% barley, virtually all of the other small grains had been harvested. Alfalfa harvest activity was reported as 58% not being harvested, 2% light, 8% moderate, 32% active. Alfalfa 7% poor, 25% fair, 48% good, 20% excellent. Range, pasture feed 7% very poor, 25% poor, 48% fair, 20% good. Central area producers shipped a variety of vegetables, melons including: Canary melons, cantaloupes, crenshaw melons, golden honeydew, honeydew, orange flesh melons, Santa Claus melons, parsley, sweet corn, watermelons. Grape shipments included beauty seedless, flame seedless, perlettes. Eastern area producers shipped greenhouse tomatoes, dry onions. Western producers harvested bell peppers, a variety of grapes, melons. Grape shipments included: Beauty seedless, flame seedless, perlettes, Thompson while melon shipments included canary, casaba, cantaloupes, crenshaw, honeydew, orange flesh, Persian, Santa Claus, specialty, watermelons. Central, western area citrus producers shipped grapefruit last week.

ARKANSAS: Days suitable for fieldwork 5. Topsoil 3% very short, 22% short, 62% adequate, 13% surplus. Temperatures below normal to near normal for most of the State, most areas had well above normal rainfall. Heat, humidity returned to the State during the week. Livestock were reported in good condition. Main farm activities: Planting soybeans, fertilizing cotton, corn, rice, harvesting wheat, hay. Other activities: Irrigating corn, rice, cultivating cotton, spraying cotton for insects, harvesting tomatoes, peaches, spraying of rice, cotton, soybean fields for weeds, applying mid-season nitrogen applications to rice, treating cattle for external parasites, vaccinating cattle, weaning calves. Cotton 85% squared, 4% poor 25% fair 58% good 13% excellent; Soybeans 91% planted 82% emerged 7% bloomed, 3% poor 32% fair 54% good 11% excellent; Sorghum 100% planted 100% emerged, 3% poor 33% fair 55% good 9% excellent. Wheat 88% harvested, 2% poor 11% fair 59% good 28% excellent. Oats 87% harvested, 32% fair, 31% good, 37% excellent.

CALIFORNIA: Field activities progressed normally under favorable conditions in most areas. Grain harvests of wheat, barley, oats continued in the Imperial, San Joaquin valleys, were just getting underway in the Sacramento Valley. Rice was progressing well, some fields were treated for weeds. Cotton square development was ongoing in the San Joaquin Valley, although most fields remained two to three weeks behind normal. Cotton fields were irrigated, thinned, weeded, sprayed for aphids, armyworms, leafhoppers, mites. Imperial Valley cotton had squares in most fields, some fields exhibited setting bolls. Seed alfalfa, safflower were in full bloom in the

San Joaquin Valley; some safflower fields began to dry down for harvest. Black eye beans, corn, sugar beets were thriving as the weather warmed. Harvest of old crop sugar beets was winding down in the central San Joaquin Valley. Growers were busily planting second crops of corn or Black eye beans following the small grain harvest. Alfalfa, oats, Sudan grass were cut, baled for hay. Some alfalfa fields were treated for weevils. Grape growers were applying sulfur and insecticides to control powdery mildew, insects. Picking of Coachella Valley's Flame Seedless, Thompson Seedless grapes continued. Other cultural, activities last week included extensive weed control, irrigation of vineyards, orchards. Cherry picking was winding down. Harvest continued in apricot, nectarine, freestone peach, plum orchards. Maturity was still two to three weeks behind normal, good quality was reported. Apple trees were treated for codling moths. Olive trees were showing good fruit set as maturity progressed. Tree limbs in almond orchards remained propped to bear the weight of the heavy nut set. Pistachio trees were sprayed with fungicides. Walnut trees were treated for blight. Valencia oranges, lemons were picked in southern California. Strawberry picking in the central valleys continued. Early fresh market tomato fields were harvested in the San Joaquin Valley. Growers treated for thrips, pre treated to prevent mildew. Various squash varieties were also harvested. Cantaloupe, watermelons, mixed melons and sweet corn were being harvested in the Imperial Valley. Sweet corn harvest was just beginning in the southern San Joaquin Valley, although most growers will begin harvest after the July 4 weekend. Melon harvest in the San Joaquin Valley was expected to be in full swing after July 1. Processing tomatoes experienced good growth with the hot weather, but harvest was not expected to begin until mid-July. Celery harvest came to a close in the southern coastal region, was accelerating in the central, northern coastal growing areas. Other crops harvested last week included beans, broccoli, carrots, cilantro, cucumbers, garlic, leeks, turnips, onions, peppers, potatoes, various greens, herbs. Higher elevation summer pastures thrived on warmer weather, abundant soil moisture. Livestock were in good condition. Most livestock have now been shipped from foothill pastures to market or to summer pastures. Dry grass on many north central, northern foothill pastures remained abundant. Sheep were being pastured on old broccoli fields in central areas.

COLORADO: Days suitable for fieldwork 6.4. Topsoil 2% very short 10% short, 85% adequate, 3% surplus. Subsoil 4% very short, 12% short, 80% adequate, 4% surplus. State experienced warm temperatures in the upper 80s, low 90s accompanied by localized evening rain showers. Winter wheat 75% turning color, 84% 1998, 73% avg.; 12% ripe, 20% 1998, 14% avg. Spring wheat 55% headed, 49% 1998, 51% avg.; 4% turning color, 24% 1998, 10% avg.; 6% poor, 18% fair, 55% good, 21% excellent. Spring barley 76% headed, 64% 1998, 63% avg.; 5% turning color, 13% 1998, 18% avg.; 4% poor, 15% fair, 63% good, 18% excellent. Sorghum 70% emerged, 80% 1998, 78% avg. Oats 69% headed, 58% 1998, 52% avg.; 4% turning color, 11% 1998, 10% avg.; 2% poor, 17% fair, 70% good, 11% excellent. Dry onions 1% very poor, 4% poor, 7% fair, 64% good, 24% excellent. Sugar beets 1% very poor, 3% poor, 10% fair, 46% good, 40% excellent. Dry beans 100% planted, 92% 1998, 90% avg.; 94% emerged, 86% 1998, 79% avg.; 1% very poor, 3% poor, 12% fair, 63% good, 21% excellent. Summer potatoes 100% emerged, 100% 1998, 99% avg.; 1% very poor, 3% poor, 3% fair, 62% good, 31% excellent. Fall potatoes 99% emerged, 99% 1998, 92% avg.; 7% poor, 16% fair, 60% good, 17% excellent. Alfalfa 74% 1st cutting, 82% 1998, 73% avg.; 4% 2nd cutting, 2% 1998, 4% avg.; 1% very poor, 9% poor, 28% fair, 50% good, 12% excellent. Pasture, range feed in mostly good condition.

DELAWARE: Days suitable for fieldwork 6.5. Topsoil 2% very short, 29% short, 69% adequate. Subsoil 3% very short, 32% short, 65% adequate. Winter wheat 1% very poor, 5% poor, 38% fair, 47% good, 9% excellent; 26% harvested, 30% 1998, 15% avg. Barley 4% poor, 15% fair, 53% good, 28% excellent; 95% harvested, 91% 1998, 81% avg. Field corn 3% poor, 34% fair, 38% good, 25% excellent. Soybeans 3% poor, 75% fair, 21% good, 1% excellent; 68% planted, 60% 1998, 65% avg.; 59% emerged, 46% 1998. Sorghum 90% planted, 68% 1998, 80% avg. Sweet corn 95% planted, 86% 1998, 93% avg. Snap beans 81% planted, 45% 1998, 60% avg. Cucumbers 53% planted, 57% 1998, 68% avg.; 10% harvested, 6% 1998, 5% avg. Lima beans 56% planted, 52% 1998, 49% avg. Clover, other hay 15% 2nd cutting, 35% 1998, 29% avg. Alfalfa hay 58% 2nd cutting harvested, 38% 1998, 39% avg. Green peas 72% harvested, 79% 1998, 76% avg. Hay supplies 30% short, 70% adequate. Pasture feed 2% very poor, 28% poor, 41% fair, 27% good, 2% excellent. Apples 13% fair, 78% good, 9% excellent. Peaches 16% fair, 77% good, 7% excellent. Activities:

Small grain harvest advanced rapidly, pea harvest continued, strawberry harvest complete.

FLORIDA: Topsoil moisture throughout State adequate with scattered areas short or surplus. Ample rain fell many localities. Precipitation totals, major stations, about 0.50 in. to almost 4.00 in. Cloud cover helped keep most temperatures 1 to 3° below normal. Daily highs, 80s; lows, 70s. Tobacco harvest active. Cotton good condition. Sugarcane growth normal. Hay growth responding to rainfall. Haying active. Peanuts fair 8% good 92%; 58% pegged. Rains delayed tomato picking, Quincy. Truck shortage slowing movement of watermelons. Major vegetables shipped: Sweet corn, okra, potatoes, tomatoes, watermelons. Frequent rains all citrus areas, adequate moisture. Abundant new growth, new crop fruit sizing well. Valencia harvest slowing, grapefruit harvest almost over. Most processors closed for season, several small juice plants still running. Caretakers cutting cover crops, spraying, herbiciding, fertilizing, pushing, burning dead trees. Pasture feed 20% fair, 75% good, 5% excellent. Cattle 30% fair, 70% good. Pasture conditions improved following rain past couple weeks. Cattle, calves mostly good condition. Central counties; first cutting made. Bermuda, bahia pastures growing well.

GEORGIA: Days suitable for fieldwork 5.0. Soil 7% very short, 26% short, 61% adequate, 6% surplus. Last weeks rains helped short term soil moisture conditions. The improved soil moisture conditions helped most crops and pastures improve from the previous week. Corn 62% dough, 55% 1998, 52% avg.; 21% dent, 14% 1998, 16% avg.; 4% mature, 0% 1998, 1% avg. Hay 6% very poor, 19% poor, 38% fair, 33% good, 4% excellent. Peanuts 71% blooming, 85% 1998, 83% avg. Sorghum 10% very poor, 15% poor, 41% fair, 32% good, 2% excellent; 93% planted, 91% 1998, 90% avg. Tobacco 12% very poor, 24% poor, 38% fair, 24% good, 2% excellent; 6% harvested, 4% 1998, 10% avg. Watermelons 5% very poor, 10% poor, 41% fair, 37% good, 7% excellent; 29% harvested, 42% 1998, 35% avg. Apples 1% poor, 19% fair, 66% good, 14% excellent. Peaches 3% very poor, 1% poor, 27% fair, 41% good, 28% excellent; 37% harvested, 63% 1998, 66% avg. Pecans 4% very poor, 11% poor, 37% fair, 39% good, 9% excellent. Corn improved slightly from previous week while progress remained ahead of 1998, average pace. Soybean condition improved. Planting, emerging, bloom stages were ahead of 1998 pace. Sorghum improved, planting was slightly ahead of the five year average pace. Tobacco condition improved from the previous week, disease continued to plague the crop with black shank appearing in some fields. Tobacco harvest was behind the average pace. Cotton, peanut conditions improved. Crop progress still remained behind the average pace for cotton squaring, setting boils as well as peanut blooming, pegging. Tomato Spotted Wilt Virus appeared in isolated peanut fields. Phyloxera appeared in some pecan groves, overall condition improved. Watermelon harvest continued, slightly behind 1998, average pace. Pasture, hay conditions continued to improve from the rains, some cattlemen were still feeding hay. Other activities included scouting cotton fields, applying sucker control, and harvesting peaches.

HAWAII: Crops made variable progress depending on weather conditions. Mostly sunny, dry weather in leeward areas enabled crops to make good progress. Some areas in need of more water. Crops in windward areas made fair progress due to partly cloudy skies, occasional showers. Warm temperatures benefitted banana, papaya orchards. Increased harvesting is expected in the coming months. Advent of summer less favorable on cool-weather crops. Head cabbage in fair condition, irrigation heavy. Dry onion in good condition; yield remain high. Sweet corn production expected to be heavy.

IDAHO: Days suitable for fieldwork 6.6. Topsoil, 2% very short, 21% short, 74% adequate, 3% surplus. Crops remain in good despite cool temperatures. Grasshoppers becoming a problem. Irrigation supply 3% fair, 25% good, 72% excellent. Alfalfa hay 74% harvested, 58% 1998, 69% avg.; 2nd cutting 3%. Oat 36% headed. Dry beans 94% planted, 97% 1998, 98% avg.; 83% emerged, 72% 1998, 87% avg. Cherries 4% harvested, 3% 1998, 27% avg. Potatoes 96% emerged, 93% 1998, 95% avg.; 12" high 26%, 36% 1998, 41% avg. Closing 4% middles, 6% 1998, 12% avg. Barley 30% headed, 24% 1998, 31% avg.; 79% jointed; 52% booted. Spring wheat 26% headed, 20% 1998, 32% avg.; 87% jointed; 49% booted. Winter wheat 74% headed, 80% 1998, 81% avg.; 91% booted; turning color 8%. Activities: Cultivating, irrigating, spraying weeds, monitoring for disease.

ILLINOIS: Days suitable for fieldwork 5.1. Topsoil 1% very short, 12% short, 69% adequate, 18% surplus. Widely scattered showers across the State last week kept some areas from drying out, while other areas could use more rain. Corn crop is just beginning to silk in some areas. Winter wheat harvest progressed quickly during the week, slowed by mid-week showers. Second cutting of alfalfa hay is far ahead of the five year average, last year's crop. Other activities for last week included cultivating, replanting some soybeans, scouting, spraying pesticides, mowing ditches. Corn avg. height (in.) 41, 33 1998, 28 avg. Winter wheat 99% turning yellow, 97% 1998, 91%

avg.; 85% ripe, 85% 1998, 61% avg. Oats 65% filled, 48% 1998, 42% avg.; 21% turning yellow, 7% 1998, 8% avg.; 9% ripe, 1% 1998, 1% avg.; 1% poor, 14% fair, 71% good, 14% excellent. Alfalfa 97% 1st cut, 93% 1998, 92% avg.; 2nd cut, 12% 1998, 12% avg.; 13% fair, 70% good, 17% excellent. Red clover 86% cut, 69% 1998, 79% avg.; 13% fair, 60% good, 27% excellent.

INDIANA: Days suitable for fieldwork 5.6. Topsoil 6% very short, 27% short, 63% adequate, 4% surplus. Subsoil 4% very short, 31% short, 63% adequate, 2% surplus. Precipitation across the State helped dry soil conditions. Many areas received over an inch of rain. Wheat 82% good to excellent. Wheat harvest 8 days ahead of average, 1 day behind record pace set in 1988. Soybean planting virtually complete, except for double cropped acres. Corn, soybean growth making good progress, ahead of normal. Pastures 55% good to excellent. Tobacco plants set 98%, 64% 1998, 77% avg. Second cutting alfalfa hay 25% complete, 16% avg. Activities: Applying post-emergence chemicals, planting double crop soybeans, side-dressing corn, mowing roads, baling hay, spraying, repairing equipment, monitoring fields for insects, care of livestock.

IOWA: Days suitable for fieldwork 5.0. Topsoil 4% short, 76% adequate, 20% surplus. Subsoil 2% short, 75% adequate, 23% surplus. Crops advanced with the past week's warm, sunny weather. Corn, soybeans doing well, though some fields remain discolored because of excessive moisture. Corn 64% cultivated, 54% 1998, 60% avg. Corn stand compared to normal 91%. Corn 40 in. tallest height; 28 in. avg. Corn 2% very poor, 4% poor, 19% fair, 49% good, 26% excellent. Soybeans 99% emerged, 100% 1998, 97% avg.; 2% blooming, 9% 1998, 4% avg. Soybean 2% very poor, 5% poor, 21% fair, 51% good, 21% excellent. Oats 96% headed, 83% 1998, 78% avg.; 18% turning, 5% 1998, 146% avg. Oat 3% poor, 18% fair, 59% good, 20% excellent. Winter wheat 2% harvested, 3% 1998, 10% avg. Winter wheat 1% poor, 21% fair, 67% good, 11% excellent. Range, pasture feed 1% very poor, 2% poor, 14% fair, 56% good, 27% excellent. Alfalfa 90% 1st cutting, 74% 1998, 84% avg. Alfalfa 6% 2nd cutting, 4% 1998. Clover hay 64% 1st cutting, 46% 1998, 54% avg. Hay 3% poor, 18% fair, 60% good, 19% excellent.

KANSAS: Days suitable for fieldwork 2.0. Topsoil 1% short, 56% adequate, 43% surplus. Subsoil 2% short, 66% adequate, 32% surplus. Wheat harvest was slowed by rainy weather, muddy conditions across the State. By late in the week, warm sunny weather had returned, enabling farmers to make a little harvest progress. Over the weekend, some areas received heavy rains, bringing harvest to a near standstill. Wheat 100% turning, 100% 1998, 98% avg.; 81% ripe, 94% 1998, 66% avg. Sorghum 84% emerged, 94% 1998. Sunflowers 86% planted, 90% 1998. Alfalfa 28% 2nd cut, 51% 1998, 35% avg. Disease infestation 1% severe, 8% moderate, 37% light, 54% with no infestation. Insect infestation mostly none to light. Major field activities included planting fall crops, cultivating corn, putting up hay, preparing for harvest, harvesting wheat. Hay, forage 1% short, 89% adequate, 10% surplus. Stock water 3% short, 73% adequate, 24% surplus.

KENTUCKY: Days suitable for fieldwork 4.7. Topsoil 22% very short, 31% short, 42% adequate, 5% surplus. Subsoil moisture 24% very short, 38% short, 36% adequate, 2% surplus. Near normal temperatures throughout the State. Rainfall throughout State was above normal. Rainfall was recorded as slightly above normal for the Eastern, Bluegrass regions which were in near drought conditions, although it is still dry in those areas. Crops in good to excellent condition where moisture is adequate. Despite rain in the drier regions, crops, pastures still need more rain. Planting of single crop soybeans virtually complete. Seeding of double crop beans 72% complete, 38% 1998, 36% avg. Emerged beans 10 inches average height. Black shank has been reported in the Burley tobacco. Some tobacco being reset in the drier regions. Tobacco 3% very poor, 12% poor, 31% fair, 42% good, 12% excellent; height 51% under 12 inches, 36% 12-24 inches, 13% over 24 inches. Pasture feed 8% very poor, 24% poor, 34% fair, 30% good, 4% excellent. Pastures are in need of more rain in central, eastern areas. Winter wheat 85% harvest complete. Yields, test weights are good. Barley 99% harvest complete. Sorghum 99% planting complete.

LOUISIANA: Days suitable for fieldwork 3.7. Soil moisture 1% very short, 13% short, 61% adequate, 25% surplus. Corn 5% poor, 32% fair, 57% good, 6% excellent; 97% silked, 99% 1998, 95% avg.; 41% dough stage, 63% 1998, 59% avg.; 2% mature, 0% 1998, 3% avg. Hay 93% 1st cutting, 94% 1998, 87% avg.; harvest was slow due to the rains. Peaches 51% harvested, 55% 1998, 47% avg. Sorghum 45% headed, 21% 1998, 20% avg. Sugarcane 14% fair, 54% good, 32% excellent. Sweet potatoes 96% planted, 89% 1998, 82% avg. Sweet potato growers were treating for armyworms. Livestock 4% poor, 27% fair, 60% good, 9% excellent. Vegetables 1% very poor, 10% poor, 37% fair, 47% good, 5% excellent. Pasture conditions continue to improve.

MARYLAND: Days suitable for fieldwork 5.7. Subsoil 16% very short, 63% short, 21% adequate. Topsoil 17% very short, 43% short, 39% adequate, 1% surplus. Winter wheat 2% very poor, 5% poor, 38% fair, 52% good, 3% excellent; 22% harvested, 28% 1998, 16% avg. Barley 1% very poor, 4% poor, 16% fair, 65% good, 14% excellent; 85% harvested, 85% 1998, 71% avg. Rye 1% very poor, 8% poor, 22% fair, 64% good, 4% excellent; 53% harvested, 64% 1998, 33% avg. Corn 2% very poor, 7% poor, 39% fair, 48% good, 4% excellent. Soybeans 2% very poor, 9% poor, 40% fair, 44% good, 5% excellent; 77% planted, 75% 1998, 71% avg.; 71% emerged, 69% 1998. Sorghum 85% planted, 97% 1998, 88% avg. Snap beans 82% planted, 78% 1998, 84% avg.; 24% harvested. Cucumbers 25% harvested, 18% 1998, 13% avg. Potatoes 10% harvested, 4% 1998, 4% avg. Strawberries 96% harvested, 95% 1998, 90% avg. Tobacco 97% transplanted, 92% 1998, 98% avg. Clover, other hays 41% 2nd cutting harvested, 25% 1998, 12% avg. Alfalfa 41% 2nd cutting harvested, 31% 1998, 32% avg. Pasture feed 8% very poor, 21% poor, 37% fair, 33% good, 1% excellent. Hay supplies 1% very short, 28% short, 67% adequate, 4% surplus. Activities: Small grain harvesting picked up dramatically, continued pea, strawberry harvesting, tobacco transplanting almost complete.

MICHIGAN: Days suitable for fieldwork 6.0. Topsoil 7% very short, 41% short, 50% adequate, 2% surplus. Subsoil 9% very short, 48% short, 41% adequate, 2% surplus. Warmer temperatures came across entire State approaching 90°. Warm temperatures provided too much heat for most crops. As hot, dry conditions taking toll on crops, timely rains came through State. Scattered showers brought much needed rainfall to most crops. Most areas reported between inch and two inches rain for week. Rain started middle this week and came back throughout weekend. Warm conditions advanced field crop growth. Corn responded with strong growth attributed to heat. Soybeans stands showing effects dry conditions at planting. Wheat crop was drying rapidly due to warm conditions, some lodging was noted. Hay 1% very poor, 5% poor, 18% fair, 54% good, 22% excellent; 87% 1st cutting, 94% 1998, 76% avg. Dry beans planted 94%, 95% 1998, 85% avg. Corn height 21 in., 23" 1998, 18" avg. Potatoes 100% emerged, 100% 1998, 95% avg. Strawberries 95% harvested, 88% 1998, 55% avg. Winter Wheat 83% turning yellow, 82% 1998, 29% avg. Hay first cutting wrapped up for most with good yields reported. Second cutting was getting underway with good growth. Dry beans planting neared completion and was emerging quickly. Some stress and leafhoppers evident. Potato blossom was beginning. A few local market potatoes dug in Monroe County for local markets. Sugar beet stands generally good condition. Recent warm temperatures have pushed crop growth but a soaking rain would be welcome. Cabbage harvest was going strong with good head size and quality reported. Harvest Celery hearts began. Harvest transplanted cucumbers began last week. Harvest direct seeded cucumbers will begin soon. Early pickle fields scheduled for harvest after July 4th. Montcalm County, pea harvest continued with yields lower than expected. Snap bean stands looked good. Peppers struggling with heat stress. Radish harvest continued. Sweet corn early fields was full silk. First early market tomatoes harvested Southeast. Processing tomatoes made good growth early fields. Fruit Tart cherries coloring and harvest excellent crop Southwest will commence this week. Cherry leaf spot continued to be a problem in some blocks Northwest. Apples 1.5 inches diameter. Oblique-banded leaf roller catches high. Peaches had 1.5 to 1.75 inch fruit. Wine grapes Northwest bloom. Strawberry harvest ended, and growers began renovation. Sweet cherry harvest will start West Central this week. Blueberries began coloring; harvest early varieties will start this week.

MINNESOTA: Days suitable for fieldwork 4.4. Topsoil 3% short, 76% adequate, 21% surplus. Corn 81% cultivated, 91% 1998, 75% avg.; 29 in. height, 35 in. 1998, 25 in. avg. Soybeans 44% cultivated, 64% 1998, 44% avg.; 7 in height, 10 in. 1998, 8 in. avg. Spring wheat 94% jointed, 96% 1998, 80% avg.; 0% turning ripe, 0% 1998, 0% avg. Oats 94% jointed, 97% 1998, 90% avg.; 3% turning ripe, 2% 1998, 2% avg. Barley 87% jointed, 95% 1998, 78% avg.; 0% turning ripe, 0% 1998, 0% avg. Alfalfa 95% 1st cutting, 95% 1998, 89% avg. Pasture feed 1% very poor, 3% poor, 21% fair, 62% good, 13% excellent. Sugar beet 2% very poor, 6% poor, 34% fair, 50% good, 8% excellent. Even though the above normal temperatures last week helped crop growth in most of the State, some areas in the north received above normal rainfall hindering crop development. Northwest district received the most rainfall, continues to have large areas of surplus topsoil moisture.

MISSISSIPPI: Days suitable for fieldwork 3.6. Soil 4% very short, 13% short, 60% adequate, 23% surplus. Corn 85% silked, 81% 1998, 72% avg.; 44% dough, 41% 1998, 29% avg.; 1% very poor, 4% poor, 21% fair, 57% good, 17% excellent. Cotton 87% squaring, 92% 1998, 83% avg.; 22% setting bolls, 21% 1998, 16% avg.; 1% very poor, 3% poor, 21% fair, 53% good, 22% excellent. Rice 3% heading, 10% 1998, 5% avg.; 1% very poor, 2% poor, 23% fair, 58% good, 16% excellent. Sorghum 29% heading, 23% 1998, 20% avg.; 1% very poor, 2% poor, 16% fair, 68% good, 13% excellent. Soybeans 99% planted, 98% 1998, 96% avg.; 97% emerged, 93% 1998, 91% avg.; 50% blooming, 41% 1998, 24% avg.; 1% very poor, 4% poor, 22%

fair, 54% good, 19% excellent. Sweet potatoes 90% planted, 94% 1998, 73% avg.; 30% fair, 65% good, 5% excellent. Hay (warm-season) 49% harvested, 47% 1998, 45% avg.; 2% very poor, 12% poor, 34% fair, 46% good, 6% excellent. Watermelons 98% planted, 97% 1998, 99% avg.; 13% harvested, 15% 1998, 7% avg.; 3% poor, 22% fair, 45% good, 30% excellent. Wheat 97% harvested, 98% 1998, 91% avg. Blueberries, 1% very poor, 3% poor, 19% fair, 61% good, 16% excellent. Cattle, 1% very poor, 6% poor, 23% fair, 59% good, 11% excellent. Pasture feed 2% very poor, 10% poor, 30% fair, 49% good, 9% excellent. Rainfall moved across most of the State during the past week. Several counties reported increased pest pressure in cotton, soybean fields.

MISSOURI: Days suitable for fieldwork 4.2. Topsoil 2% very short, 14% short, 65% adequate, 19% surplus. Precipitation for week ending June 20, 1999 avg. 2.08 in. Corn 12% silking, Bootheel 58%. All soybean 88% planting complete, 97% single-crop, 26% double-crop. Soybeans 86% emerged; 4% blooming, 12% Bootheel. Soybean 1% very poor, 9% poor, 34% fair, 49% good, 7% excellent. Sorghum 94% planting complete. Winter wheat 36% harvested, Bootheel 92%. Winter wheat 2% very poor, 8% poor, 28% fair, 52% good, 10% excellent. Pasture feed 1% very poor, 3% poor, 23% fair, 61% good, 12% excellent.

MONTANA: Days suitable for fieldwork 5.5. Topsoil 2% very short, 22% short, 71% adequate, 5% surplus. Subsoil 6% very short, 25% short, 65% adequate, 4% surplus. Majority of the State received some amounts of precipitation, but not enough to slow progress or delay fieldwork. Sugar beets 3% poor, 9% fair, 41% good, 47% excellent. Winter wheat 75% headed, 92% 1998, 76% avg. Spring wheat 95% emerged, 100% 1998, 100% avg. Barley 98% emerged, 100% 1998, 100% avg. Oats 97% emerged, 100% 1998, 100% avg.; 34% in boot 34%, 69% 1998, 57% avg.; 10% headed, 25% 1998, 17% avg.; 1% poor, 19% fair, 60% good, 20% excellent. Corn 97% emerged, 100% 1998, 100% avg.; 1% fair, 62% good, 37% excellent. Potatoes 83% emerged, 85% 1998, 82% avg.; 20% fair, 65% good, 15% excellent. Dry beans 99% emerged, 100% 1998, 100% avg.; 8% fair, 65% good, 27% excellent. Alfalfa 23% 1st cutting, 17% 1998, 23% avg. Other hay 15% harvested, 8% 1998, 17% avg. The only other fieldwork being done is spraying of summer fallow.

NEBRASKA: Days suitable for fieldwork 4.9. Topsoil 5% short, 88% adequate, 7% surplus. Subsoil 2% short, 91% adequate, 7% surplus. Temperatures varied from near normal in the central, mid-east portion to 4° above normal in the Panhandle. Precipitation three-fourths of an inch in the southwest up to near two and a half inches in the East. Corn 1% very poor, 2% poor, 12% fair, 57% good, and 28% excellent. Irrigated corn 84%, dryland corn 86% good or excellent. Wire worm, root worms were noted in corn. Soybeans 99% planted, 100% 1998, 100% avg.; emerged 94%, 100% 1998, 96% avg. Bean leaf beetles still active. Sorghum 94% planted, 99% 1998, 95% avg. Dry beans 100% planted complete, above 97% 1998; emerged 98%, above 90% 1998, 88% avg. Wheat 5% poor, 20% fair, 55% good, 20% excellent; wheat 88% turning color, compared to 80% 1998, 71% avg. Wheat ripe 18% above 15% last year, 13% average. Oats 1% poor, 11% fair, 49% good, 39% excellent; headed was 92% complete, above 92% 1998, 80% avg. First cutting of alfalfa 97%, compared to 92% 1998, average. Alfalfa 8% 2nd cutting, above 1998, 4% avg. Alfalfa 3% poor, 15% fair, 65% good, 17% excellent. Weevils, leaf hoppers were still a problem in alfalfa fields. Range, pasture feed 1% poor, 11% fair, 62% good, 26% excellent. Wild hay 1% poor, 12% fair, 63% good, 24% excellent. Near normal temperatures have limited stress on livestock. Producer activities: Planting, cultivating, ditching row crops, preparation for irrigation, harvesting alfalfa hay, moving grain, applying fertilizer and herbicide.

NEVADA: Week started out hot with temperatures as high as 10° above normal. Temperatures cooled in the late part of the week with northern areas having some below normal temperatures. No precipitation fell during the week. In spite of this, irrigation water supply remained adequate. First cutting of alfalfa was wrapping up, second cutting had begun in parts of the State. Grain crops were heading well, remained in good condition. Potatoes, onions were also in good condition. There was some problems with grasshoppers invading the alfalfa crops in the northeastern portion of the State. Sheep, cattle were doing good as most had been moved to summer range. Main farm, ranch activities: Irrigating, spraying pesticides, fertilizing potatoes, cutting hay.

NEW ENGLAND: Days suitable for fieldwork 6.8. Topsoil 37% very short, 48% short, 15% adequate. Subsoil 31% very short, 48% short, 21% adequate. Pasture feed 4% very poor, 29% poor, 50% fair, 16% good, 1% excellent. Maine potatoes 100% emerged, condition good. Massachusetts potatoes 100% emerged, condition good. Rhode Island potatoes 100% emerged, condition good. Oats in Maine 100% emerged, condition good. Barley in Maine 100% emerged, condition good. Field corn 100% planted, 99% 1998, 99% avg.; 100% emerged, condition good/fair. Sweet corn 99% planted, 95% 1998, 95% avg.; 99% emerged, condition good to fair; <5% harvested. Shade Tobacco condition good. Broadleaf Tobacco 90% planted, 95% 1998, 90% avg.; condition good. First cut hay 90% harvested, 60% 1998, 65% avg.; condition good to fair. Second cut hay 5% harvested, 10% 1998, 5% avg.; condition fair to poor. Apples set average, size average, condition good. Peaches set average, size average, condition good to fair. Pears set average, size average, condition good. Strawberries 80% harvested, 75% 1998, 40% avg., set average, size average, condition good. Cranberries full bloom, condition good. Highbush blueberries set average, size average, condition good. Wild Blueberries set average, size above average, condition good. Major farm activities included: Mowing field edges; applying fertilizers; cultivating; scouting for pest, applying pesticides when necessary; irrigating where it's available; harvesting hay and haylage; harvesting strawberries, early season vegetables.

NEW JERSEY: Temperatures above normal north, near normal central, below normal south. Extremes 48°; 100°. Rainfall 0.04 in. North, 0.22 in. central, 0.58 in. south. Heaviest 24 hour total was 1.24 in. at Hammonton on the 21st to the 22nd. Estimated soil moisture, in percent of field capacity, this past week 69% north, 72% central, 79% South. Four inch soil temperatures averaged 68 degrees North, 69 degrees Central and 68 degrees South. Days suitable for field work averaged six days. Field corn condition has been rated good in South Jersey and between fair and good in Central and North Jersey. Plant growth has been reported as slow in some areas. Planting of single crop soybeans is still occurring in north. Double crop soybeans planting should start soon as wheat and other small grain fields are harvested. The condition of soybean fields has also been rated good in the southern counties and between fair and good in central, north. Wheat harvest already started in south. Harvest of barley continued in south, central. The quality of the second cutting of hay in South Jersey has been rated between good and excellent, while hay fields in the northern counties are beginning to feel the effects of the lack of adequate moisture during the recent weeks. Extensive irrigation of vegetable fields is occurring. Harvesting of tomatoes continued in south, good quality has been reported. Harvest of snap beans, early sweet corn has started. Also good volumes of cabbage, green beans, squash, cucumbers have been reported at the markets. Volume of lettuce is declining. Thinning of peach trees continues in south. The quality of the crop has been reported between good and excellent in that area. Apple conditions are similar. Harvest of strawberries is mostly finished. Harvest of early varieties blueberries continued in south.

NEW MEXICO: Days suitable for fieldwork 6.3. Temperatures were within a couple of degrees of normal at most locations. Afternoon temperatures during the latter part of the week topped 100° at many lower elevations in the east, south. Hit, miss afternoon, evening showers, thunderstorms produced some measurable rainfall at about 80% of the stations, all reported totals were less than an inch. Showers were absent over the southern desert. Harvest continued on hay, wheat, onions, while planting of sorghum was 90% completed. Cultivating, irrigating, spraying were again major activities as fields dried out from last week's rains. Ranchers were still moving cattle to summer pasture, branding. Fence repair and general maintenance were also high on the list of activities. Warmer temperatures along with last week's precipitation brought more reports of grasses greening, showing new growth but there were also reports of increased grasshoppers, range worms. Range, pasture feed 8% very poor, 14% poor, 38% fair, 30% good, 10% excellent. Cattle remained in mostly good condition with some supplemental feeding still being reported. Sheep were rated in mostly fair to good condition.

NEW YORK: Days suitable for fieldwork 6.4. Soil moisture 60% very short, 30% short, 10% adequate. Late week showers did little to alleviate stress to field crops, hay, pastures. Pasture feed 31% very poor, 55% poor, 8% fair, 6% good. Hay 29% poor, 54% fair, 17% good. Alfalfa 1st cutting 89% complete, 88% 1998, 80% avg. Clo-tim 84% cut, 79% 1998, 70% avg. Corn planting complete. Stands under stress, curling. Wheat 32% fair, 63% good, 5% excellent. Dry beans 77% planted, 91% 1998, 76% avg. Late planted soybeans stressed. Earlier plantings somewhat better. Long Island potatoes in bloom-irrigation necessary for tuber development. Strawberry season drew to a close. Sweet corn on schedule. Cabbage planting active. Tree fruits excellent condition along Lake Ontario.

NORTH CAROLINA: Days suitable for fieldwork 4.6 compared to 4.2 last week. Mild temperatures, widespread precipitation provided another week of favorable weather for State crops. Beneficial rainfall appeared to improve all crop conditions to mostly good. However, rainfall amounts continue to be well below average for the year. Soil moisture levels improved, 1% very short, 15% short, 69% adequate, 15% surplus. Even with the rains, significant gains were made in small grain harvest, especially wheat. Soybean, sweet potato planting along with weed control were among the major activities this past week. Other activities last week included planting sorghum, making hay, equipment maintenance, tending livestock.

NORTH DAKOTA: Days suitable for fieldwork 5. Topsoil 2% short, 83% adequate, 15% surplus. Subsoil 1% short, 79% adequate, 20% surplus. Development of most crops across the State was average or slightly behind the averages. Pest, weed control remained a main activity as weed, insect pressure continued during the week. Durum wheat 32% jointed, 57% 1998, 48% avg.; 11% boot, 20% 1998, 20% avg.; 3% heading, 5% 1998, 6% avg. Canola 99% emerged, 100% 1998; 70% rosette, 89% 1998. All late season crops are near 100% emerged. Corn height 14 in., 20 in. 1998, 17 in. avg. Dry edible bean height 6 in., 8 in. 1998, 7 in. avg. Flaxseed height 8 in., 11 in. 1998, 7 in. avg. Potato height 7 in., 11 in. 1998, 9 in. avg. Soybean height 6 in., 8 in. 1998, 7 in. avg. Sugar beet height 8 in., 13 in. 1998, 9 in. avg. Sunflower height 6 in., 10 in. 1998, 9 in. avg. Emerged crop condition: Durum 0% very poor, 4% poor, 28% fair, 59% good, 9% excellent; canola 0% very poor, 4% poor, 22% fair, 59% good, 15% excellent; corn 2% very poor, 4% poor, 21% fair, 64% good, 9% excellent; dry edible beans 1% very poor, 6% poor, 21% fair, 61% good, 11% excellent; flaxseed 0% very poor, 4% poor, 26% fair, 60% good, 10% excellent; potatoes 0% very poor, 5% poor, 12% fair, 50% good, 33% excellent; soybeans 0% very poor, 6% poor, 21% fair, 64% good, 9% excellent; sugar beets 0% very poor, 5% poor, 17% fair, 54% good, 24% excellent; sunflower 0% very poor, 3% poor, 25% fair, 61% good, 11% excellent. Pasture feed 1% very poor, 2% poor, 6% fair, 68% good, 23% excellent. Stock water supplies 0% very short, 0% short, 89% adequate, 11% surplus. Broadleaf, wild oat spraying 68% and 83% complete, respectively. Hay 5% above normal.

OHIO: Days suitable for fieldwork 6.7. Topsoil 36% very short, 45% short, 18% adequate, 1% surplus. Soybeans 10% blooming, 6% 1998, 2% avg. Winter wheat 57% ripe, 34% 1998, 14% avg.; 6% harvested, 4% 1998, 1% avg. Oats 93% headed, 91% 1998, 70% avg.; 10% ripe, 12% 1998, 21% avg.; 1% harvested, 0% 1998, 0% avg. Alfalfa 38% 2nd cutting, 14% 1998, 10% avg. Other hay 16% 2nd cutting, 7% 1998, 6% avg. Strawberries 94% harvested, 92% 1998, 71%, avg. Pasture feed 7% very poor, 22% poor, 36% fair, 31% good, 4% excellent. Winter wheat 3% poor, 16% fair, 56% good, 25% excellent. Corn 2% very poor, 7% poor, 29% fair, 51% good, 11% excellent. Soybeans 2% very poor, 7% poor, 32% fair, 48% good, 11% excellent. Activities throughout the State include certifying crops; making hay; spraying crops; repairing equipment; moving grain; mowing ditches, brush; cultivating corn; sidedressing corn; scouting for pests, disease; clipping pastures; making silage; harvesting barley, oats, wheat; building fences; baling straw; chopping oatlage; controlling pond weeds. Christmas trees are being sheared in Carroll, Portage county. Vegetable producers are cutting cabbage in Hancock county while sweet corn, tomatoes, other vine crops are being irrigated in Meigs county. Brown county, some tobacco is being reset. melon harvest is expected July 10-14 in the southern part of the State. Reported weed pressures include Canadian thistle, morning glory, buttonweed, foxtail, ragweed, hemp dogbane, milkweed, quack grass, poison ivy, broadleaf, chickweed, Johnsongrass. Reported insects were potato leafhopper, alfalfa weevil in alfalfa; cutworms, European corn borer, corn flea beetles in corn; spotted spidermite in soybeans; cucumber beetles in vine crops. Reported diseases were scab, rust, smut in wheat; blight on vegetables. Pasture conditions have deteriorated, many have gone dormant. Brown, short pastures have prompted many livestock producers to feed hay. Producers are concerned that there will be no second cutting hay in some parts of the State if it doesn't rain soon. Most livestock are in good condition although some are stressed from flies, overgrazed pastures, heat.

OKLAHOMA: Days suitable for fieldwork 2.8. Subsoil 2% short, 78% adequate, 20% surplus. Topsoil 4% short, 66% adequate, 30% surplus. Cool, wet weather early week gave way to more reasonable readings late week. Panhandle records state's first 100 degree weather. Oats 70% harvested, 85% 1998, 65% avg.; Corn 3% fair, 93% good, 4% excellent; 12% tasseled, 13% 1998, 26% avg.; 2% milk-to-soft, 3% 1998, 6% avg. Sorghum 68% up-to-stand, 79% 1998, 67% avg. Soybeans 23% poor, 22% fair, 51% good, 4% excellent; 68% planted, 89% 1998, 84% avg.; 52% up-to-stand, 71% 1998, 69% avg.; 7% flowering, 6% 1998, 8% avg. Peanuts 98% up-to-stand, 96% 1998, 89% avg. Cotton 99% up-to-stand, 87% 1998, 90% avg. Watermelons 73% vines running, 99% 1998, 80% avg.; 51% fruit set, 42% 1998, 38% avg. Alfalfa hay 3% poor, 17% fair, 70% good, 10% excellent; 59% 2nd cutting, 82% 1998, 70% avg.; 5% 3rd cutting, 16% 1998, 10% avg.; Other hay 72% 1st cutting, 72% 1998, 70% avg.; 5% 2nd cutting, 1% 1998, 6% avg.; Livestock 1% poor, 9% fair, 77% good, 13% excellent. Feeder cattle prices unchanged from last week.

OREGON: Days suitable for fieldwork - 6.7. Topsoil 22% very short, 35% short, 42% adequate, 1% surplus. Subsoil 16% very short, 39% short, 44% adequate, 1% surplus. Winter wheat 26% very poor, 30% poor, 31% fair, 10% good, 3% excellent; 100% headed, 99% 1998, 99% avg. Range, pasture feed 1% very poor, 14% poor, 39% fair, 46% good. Activities: Western areas haying continued. Some hay down, rained on. Silage making underway on the south coast. Spraying grass seed mostly finished; rust in fields at low levels compared to 1998. Red clover showing blooms, meadowfoam very close to cutting stage. Sugar beets for seed in Willamette Valley looked good as irrigating continued, field corn starting to grow. In the Mid-Columbia region 45 mph winds & 0.5" - 1.0" rain in two hours damaged some fields, crop damage as yet unknown. Haying continued; yields down due to cooler temperatures. Wheat fields turning color. Dryland wheat under severe moisture stress while irrigated wheat looked good. Some disease problems showing up in mint fields & affecting development. Canola harvest beginning at lower elevations & record yields expected. Swathing of grass seed continued; Kentucky Bluegrass yields low. Western areas some nurseries working on fall plants & Christmas trees. Some areas are setting out cuttings & continuing digging & balling of larger trees. A few nurseries are reporting ongoing summer maintenance, movement of containers beginning. Eastern areas vegetable & watermelon development slow due to cool temperatures & wind damage. Harvest of early processed vegetables expected to be delayed at least two weeks. Potato crop looked good with no late blight reported. Potatoes & onions received hail damage from Thursday's storm. Western regions of the State, warmer days & nights have helped vegetable crops; sweet corn reported knee high, tomatoes & green beans looked good. Salad vegetables moving to market. Rhubarb harvest continued; onions being irrigated & weeded. Willamette Valley, strawberry harvest continued, raspberries starting to turn color, and Marion berries sizing. Early sweet cherry harvest began in some areas of the Willamette Valley. Hazelnut crop looks good. Rogue River Valley the grape crop looks lighter, but good. Raspberries have good fruit set & Cherries were ripening. On the south coast Stevens cranberries at full bloom & cranberry girdler moth flight was at peak activity. Blackberries were blooming on the north coast. In north central Oregon sweet cherry harvest began with Royal Ann cherries being harvested for brining. Cherry quality was excellent with no rain damage. Cherry harvest has also started in Milton-Freewater. Livestock fair to excellent, mostly good. Pastures were good to excellent in the Willamette Valley & along the coast. South west Oregon & the northern tier of counties along the Columbia River have drier than normal ranges & pastures, with grass maturing in many areas. Northeastern areas received a good rain which should improve pasture & range growth. Southeastern counties have better than normal rangeland conditions.

PENNSYLVANIA: Days suitable for fieldwork 6.4. Soil moisture 37% very short, 47% short, 16% adequate. Average corn height 20 in., 17 in. 1998, 17 in. avg. Corn crop condition 1% very poor, 5% poor, 40% fair, 51% good, 3% excellent. Soybeans emerged 88% complete, 84% 1998, average not available. Soybean 1% very poor, 4% poor, 35% fair, 53% good, 7% excellent. Barley 96% turning yellow, 98% 1998, 90% avg.; 81% ripe, 85% 1998, 64% avg.; 56% harvested, 66% 1998, 36% avg. Wheat 75% turning yellow, 80% 1998, 65% avg.; 21% ripe, 20% 1998, 10% avg. Wheat 1% poor, 22% fair, 68% good, 9% excellent. Oats heading or headed 86% complete, 76% 1998, 65% avg.; 16% turning yellow, 6% 1998, 7% avg. Oat 2% very poor, 21% poor, 36% fair, 39% good, 2% excellent. Alfalfa 1st cutting 97% complete, 88% 1998, 81% avg. Alfalfa 2nd cutting 33% complete, 19% 1998, 17% avg. Timothy clover 1st cutting 86% complete, 60% 1998, 59% avg. Timothy clover 2nd cutting 9% complete, 1998 not available, average not available. Quality of hay made 2% poor, 21% fair, 56% good, 21% excellent. Peach 16% fair, 39% good, 45% excellent. Apple condition 16% fair, 36% good, 48% excellent. Activities included: Planting soybeans, some vegetables; machinery maintenance; hauling manure; spreading fertilizers; caring for livestock; building and repairing fences; cutting hay; making haylage; applying pesticides; sowing beans; harvesting barley; irrigating crops.

SOUTH CAROLINA: Days suitable for fieldwork 4.8. Soil moisture 1% very short, 14% short, 76% adequate, 9% surplus. Barley 96% harvested, 98% 1998, 89% avg. Cantelopes 31% harvested, 53% 1998, 47% avg.; 1% very poor, 16% poor, 49% fair, 34% good. Corn 25% doughed, 32% 1998, 37% avg.; 8% very poor, 17% poor, 38% fair, 36% good, 1% excellent. Cucumbers 87% harvested, 73% 1998, 65% avg.; 18% poor, 59% fair, 23% good. Hay 3% very poor, 14% poor, 47% fair, 35% good, 1% excellent. Peaches 27% harvested, 26% 1998, 29% avg.; 5% poor, 10% fair, 72% good, 13% excellent. Rye 98% harvested, 94% 1998, 90% avg. Snapbeans 65% harvested, 60% 1998, 41% avg.; 35% fair, 65% good. Sorghum 96% planted, 85% 1998, 80% avg.; 5% very poor, 7% poor, 5% fair, 83% good. Sw Potatoes 96% planted, 100% 1998, 91% avg.; 4% poor, 19% fair, 77% good. Tomatoes 63% harvested, 46% 1998, 54% avg.; 19% fair, 81% good. Watermelons 27% harvested, 36% 1998, 39% avg.; 2% very poor, 15%

good, 41% fair, 39% good, and 3% excellent. Winter Wheat 98% harvested, 97% 1998, 88% avg.

SOUTH DAKOTA: Topsoil 2% short, 78% adequate, 20% surplus. Subsoil 77% adequate, 23% surplus. Sunshine, dry conditions are needed to reduce the threat of disease, spur crop development. Corn planted 99%, 100% 1998, 100% avg. Corn emerged 98%, 100% 1998. Corn height 16 in., 19 in. 1998, 16 in. avg. Corn first cultivation 55%, 71% 1998, 61% avg. Corn second cultivation 14%, 26% 1998, 17% avg. Winter rye condition 29% excellent, 48% good, 19% fair, and 4% poor. Flaxseed condition 17% excellent, 70% good, 12% fair, and 1% poor. Alfalfa condition 28% excellent, 56% good, 14% fair, and 2% poor. Sunflower condition 12% excellent, 66% good, 18% fair, and 4% poor. Winter wheat boot 100%, 100% 1998, 98% avg. Winter wheat headed 98%, 96% 1998, 92% avg. Winter wheat turning color 45%, 45% 1998, 25% avg. Winter wheat ripe 0%, 7% 1998, 2% avg. Spring wheat 88% in boot stage, 90% 1998, 74% avg. Spring wheat turning color 5%, 28% 1998, 8% avg. Oats 81% in boot stage, 86% 1998, 71% avg. Oats turning color 7%, 7% 1998, 3% avg. Barley 83% in boot stage, 90% 1998, 70% avg. Barley turning color 8%, 32% 1998, 8% avg. Winter rye 100% in boot, 100% 1998, 100% avg. Winter rye headed 95%, 99% 1998, 95% avg. Winter rye turning color 13%, 47% 1998, 22% avg. Winter rye ripe 0%, 4% 1998, 5% avg. Flaxseed 100% seeded, 100% 1998, 99% avg. Flaxseed 98% emerged, 100% 1998, 95% avg. Flaxseed blooming 12%, 44% 1998, 18% avg. Sunflower 95% seeded, 95% 1998, 92% avg. Alfalfa first cutting 72%, 70% 1998, 68% avg. Other hay harvested 29%, 24% 1998, 21% avg. Cattle condition 30% excellent, 66% good, and 4% fair. Sheep condition 32% excellent, 64% good, and 4% fair. Stock water supplies 1% short, 77% adequate, and 22% surplus.

TENNESSEE: Days suitable for fieldwork 5. Topsoil 8% very short, 22% short, 62% adequate, 8% surplus. Subsoil 9% very short, 26% short 62% adequate, 3% surplus. Corn 40% tasseled, 44% 1998, 33% avg; 1% very poor, 8% poor, 25% fair, 51% good, 15% excellent. Tobacco 2% very poor, 7% poor, 35% fair, 45% good, 11% excellent. Wheat 98% harvested, 86% 1998, 74% avg. Pasture 5% very poor, 20% poor, 34% fair, 38% good, 3% excellent. Rain fell over most areas of the State last week providing much needed moisture to both row crops and pasture land. Prior to last week's rain, pasture conditions had deteriorated to the point that some cattle producers were forced to sell off part of their herds, while others were considering feeding hay. Pasture conditions improved slightly from the previous week, but more rain will be needed to sustain good growth. The State's corn growers were especially pleased with last week's rain because the crop has moved into the critical pollination stage. Tobacco remains in good to fair condition despite numerous reports of both Black Shank, Tomato Spotted Wilt Virus throughout the growing areas.

TEXAS: Unstable atmosphere combined with gulf moisture brought more rain all areas through mid week. Most areas could now use few weeks sunshine, warmer temperatures. Moisture beneficial to ranges, pastures, reduced irrigation needs. Ranges, pastures across state in good condition. Livestock conditions remained good most areas. Flies remained problem some herds.

Crops: Small Grains: Scattered rain showers in Plains slowed harvest activity. Early yields good, however hail damaged some fields over past few weeks. Wet fields also kept producers from finishing North Central. Corn: Fields all areas made good progress during week. Irrigation reduced by weekly rains in High Plains. Fields from Central to Rio Grande Valley matured rapidly late week as hot temperatures returned. Harvest began in few fields in Rio Grande Valley, however scattered rain kept activity to a minimum. 49% doughing, 42% 1998, 40% avg. 28% denting, 26% 1998, 17% avg. 1% mature, 0% 1998, 0% avg. Cotton: Losses continued to mount in Plains due hail, heavy rains, high winds over past few weeks. Some producers have already replanted several times, will now go to alternative crops. Warmer temperatures by end week aided High Plains fields where plants squaring. Bolls continued to set in Blacklands, Central, fields now need open, sunny weather. Too much rain in Coastal Bend has led to some shedding of squares later planted fields. Bolls continued to open early planted fields. Boll set good in Rio Grande Valley, were opening. 2% open bolls, 3% 1998, 2% avg. Peanuts: Fields in Plains continued look good, were pegging. Most escaped weather damage. Sun, warmer weather now needed. Fields also made good progress South Central. Final planting slowed by wet conditions. Rice: Too much rain along Upper Coast caused an increase in disease some fields. Producers now need open, warmer weather. Sorghum: Planting remained slow in Plains. Early planted fields emerged good stands. Fields slowly turned color in Blacklands, Central, should increase as warmer, open conditions return. Wet conditions slowed harvest in Coastal Bend, Rio Grande Valley. 44% headed, 47% 1998, 53% avg. 32% turning color, 34% 1998, 33% avg. 18% mature, 17% 1998, 14% avg. 9% harvested, 2% 1998, 2% avg. Soybeans: Fields emerged good stands in Plains with good soil moisture conditions. Many hailed out cotton fields will be replanted to beans. Good pod filling continued in Northern Blacklands. Excessive rains have caused some problems along the Upper

Coast. Other Crops: Oats 85% harvested, 77% 1998, 74% avg. Sunflowers 83% planted, 79% 1998, 77% avg.

Commercial Vegetables: Rio Grande Valley, watermelon harvest slowly continued. San Antonio-Winter Garden, rain slowed harvest activity. East, continued rain caused disease problems some fields. Harvest slowly continued. Sweet potatoes made good progress last week. High Plains, some hail damage reported, however progress has been good on vegetables that escaped weather damage. Trans Pecos, a few onion fields harvested, other crops continued to show good progress. Peaches: Harvest remained steady in Hill Country, however production remained down. Quality good. Pecans: A few areas reported nut drop, however reports of very good crop continued. Scattered spraying continued.

Range and Livestock: A lot of hay remained on ground, wet parts of Blacklands, Central, producers hoping for few weeks of open weather to resume baling. Ranges, pastures in good shape most areas. Grasshoppers remained a problem many areas. Livestock conditions good across most state. Flies continued to plague some herds.

UTAH: Days suitable for field work 7. Topsoil 1% very short, 35% short, 62% adequate, 2% surplus. Subsoil 1% very short, 26% short, 71% adequate, 2% surplus. Pasture, range feed 5% poor, 37% fair, 55% good, 3% excellent. Winter wheat headed 94%, 91% 1998, 91% avg. Corn: emerged 99%, 100% 1998; height 12 inches, 10 inches 1998, 15 inches avg. Spring wheat headed 77%, 62% 1998, 75% avg. Barley headed 78%, 53% 1998, 74% avg. Other hay cutting 35%, 23% 1998, 29% avg. Alfalfa hay first cutting 86%, 79% 1998, 85% avg. Oats headed 45%, 40% 1998, 37% avg. Sweet cherries picked 1%. Irrigation water supply 8% short, 89% adequate, 3% surplus. Stock water supplies 3% very short, 8% short, 89% adequate. Major activities included cutting and baling hay, irrigating crops, and spraying for weeds and insects. Most counties reported that crops looked good and weather had been favorable for growing and harvesting. Grasshoppers and Mormon crickets continued to be a problem for many farmers in the State.

VIRGINIA: Days suitable for fieldwork 5.8. Topsoil 39% very short, 37% short, 24% adequate. Subsoil 47% very short, 32% short, 20% adequate, 1% surplus. Pasture feed 28% very poor, 37% poor, 27% fair, 8% good. Livestock 1% very poor, 9% poor, 29% fair, 54% good, 7% excellent. Hay, Other 21% very poor, 30% poor, 38% fair, 10% good, 1% excellent. Hay, Alfalfa 7% very poor, 21% poor, 51% fair, 19% good, 2% excellent. Corn for Grain 95% emerged, 95% 1998; 5% silked, 0% 1998, 2% avg.; 10% very poor, 23% poor, 42% fair, 22% good, 3% excellent. Soybeans 62% planted, 70% 1998, 66% avg.; 49% emerged, 62% 1998; 7% very poor, 19% poor, 44% fair, 29% good, 1% excellent. Winter Wheat 37% harvested, 41% 1998, 35% avg. Barley 89% harvested, 82% 1998, 75% avg. Tobacco, Flue Cured 1% poor, 26% fair, 49% good, 24% excellent. Tobacco, Burley 100% planted, 95% 1998, 97% avg.; 5% very poor, 10% poor, 30% fair, 40% good, 15% excellent. Tobacco, Dark Fire Cured 10% poor, 40% fair, 43% good, 7% excellent. Tobacco, Sun Cured 5% very poor, 20% poor, 25% fair, 50% good. Peanuts 7% pegged, 24% 1998, 7% avg.; 1% poor, 12% fair, 52% good, 35% excellent. Cotton 32% squaring, 31% 1998, 19% avg.; 1% very poor, 6% poor, 28% fair, 52% good, 13% excellent. Summer Potatoes 1% harvested, 0% 1998, 2% avg.; 4% very poor, 6% poor, 25% fair, 53% good, 12% excellent. Apples, All 5% poor, 40% fair, 45% good, 10% excellent. Peaches 10% very poor, 1% poor, 34% fair, 46% good, 9% excellent. Scattered rainfall across the Commonwealth brought some relief to farmers. Crop conditions improved somewhat, however, signs of the recent dry weather remain visible. Additional rainfall is necessary for crops to reach full yield potential. Corn acres are beginning to tassel and silk in some areas. Acres stunted by dry weather showed signs of improvement. Planting of soybean acreage remains slightly behind schedule. Progress has been slow due to lack of soil moisture. Field conditions allowed small grain harvest to continue at a rapid pace. Many producers reported unexpected higher yields, especially in barley. Tobacco acreage remains in mostly good condition. Plants are expected to begin blooming in the next few weeks. Condition of cotton and peanut acreage improved with the recent rains. Some peanuts plants are in bloom with a few already showing pegs. Cotton plants are beginning to square, on schedule compared with 1998. Hay production continues with most producers reporting low yields from the second cutting. This concerns many livestock producers who are already feeding their herds hay intended for the winter. Pastures show some improvement with recent rain but are still being utilized at a much faster rate than re-growth. Availability of water for herds is also a major concern. An increase of well digging has been reported in many areas. Producers continue to reduce herd size in order to conserve hay and other feed supplies. Harvest of potatoes, tomatoes, snap beans, squash and other vegetables continues.

WASHINGTON: Days suitable for fieldwork 3.9. Topsoil 13% very short, 40% short, 42% adequate, 5% surplus. Subsoil 10% very short, 53% short, 35% adequate, 2% surplus. Eastern, central areas received rainfall last week and was a very welcome sight for winter wheat growers. Cooler weather also helped the condition of the winter wheat. Winter wheat, dryland 8% very poor, 14% poor, 42% fair, 34% good, 2% excellent; irrigated 100% good. Headed

100%, 100% 1998, 99% avg. Spring wheat, dryland 18% very poor, 31% poor, 40% fair, and 11% good; irrigated 100% good. Headed, 74%, 93% 1998, 77% avg. Barley, dryland 11% very poor, 28% poor, 55% fair, 6% good; irrigated, 100% good. Headed 61%, 94% 1998, 83% avg. Crop conditions improved due to the rainfall and cooler weather last week. Hay, other roughage supplies were 11% short, 48% adequate, 41% surplus. Range and pasture, 10% very poor, 12% poor, 45% fair, 30% good, and 3% excellent. Second cutting of alfalfa hay was well underway as the first cutting was winding down. Dairy farmers started harvesting the second crop of green chop. Raspberries and strawberries were being picked, however, wet soils in western Washington were causing some rotting in strawberry fields. Cherries were being harvested. Apple thinning was winding down while growers were applying fungicide to prevent apple scab. Potato growers were also applying fungicide to prevent late blight. Onions and onions seed harvests were just beginning.

WEST VIRGINIA: Days suitable for fieldwork 6.3. Topsoil 47% very short, 46% short, 7% adequate. Hot, dry weather conditions continue to deteriorate crops and pastures throughout the State. Most areas of the State are in need of several days of soaking rain to alleviate drought conditions. Wheat 3% very poor, 7% poor, 57% fair, 33% good; harvested 21%, 7% 1998. Hay condition 12% very poor, 34% poor, 36% fair, 14% good, 4% excellent; Hay 1st cut 88%, 70% 1998, 71% avg.; 2nd cut 9% and 5% 1998. Corn 5% very poor, 52% poor, 37% fair, 6% good; silked 2%. Oats 7% very poor, 21% poor, 60% fair, 12% good; headed 67% and 87% 1998. Soybeans 6% very poor, 23% poor, 61% fair, 10% good; blooming 1%. Tobacco 17% very poor, 28% poor, 43% fair, 12% good. Apples 8% poor, 44% fair, 48% good. Peaches 43% fair, 57% good. Cattle 8% poor, 44% fair, 45% good, 3% excellent. Sheep 16% poor, 36% fair, 43% good, 5% excellent.

WISCONSIN: Days suitable for fieldwork 5.5. Soil moisture 1% very short, 18% short, 73% adequate, 8% surplus. Warm, humid weather has kept corn fields in good to excellent condition throughout most of the state. The height of corn varies, by location and soil type, from 6 inches to 3 feet. A Marathon county reporter indicated that the northern part of the state received some spotty frost damage. A Juneau county reporter pointed out that weeds have been a problem in many corn and soybean fields. With most of the state receiving little rain, much of the remaining first crop hay was harvested. First crop hay harvested: 93% 1999, 91% 1998, 80% 5 year average. Regrowth was coming back with good to excellent quality, but quantity was reduced by the presence of leafhoppers and weevils. A few farmers who harvested first crop early began harvesting their second crop last week, many others are planning on starting soon. Second crop hay harvested: 7% 1999, 9% 1998, 2% avg. In Waupaca county, the oats have been reported as heading out with good looking grain. In Lincoln county the strawberry crop was described as ripening really fast. Pea crop was beginning to pod, and the potato crop was in good condition. Soybean condition: 1% very poor, 3% poor, 14% fair, 58% good, 24% excellent. Winter Wheat condition: 0% very poor, 0% poor, 5% fair, 56% good, 39% excellent. Pasture feed 1% poor, 14% fair, 57% good, 28% excellent.

WYOMING: Days suitable for fieldwork 6.5. Topsoil 19% short, 76% adequate, 5% surplus. Winter wheat 9% fair, 48% good, 43% excellent. Winter wheat boot 93%, 100% 1998, 99% avg.; headed 90%, 98% 1998, 95% avg.; turning color 39%, 40% 1998, 35% avg. Spring wheat condition 7% fair, 88% good, 5% excellent. Spring wheat jointed 80%, 99% 1998, 89% avg.; boot 59%, 88% 1998, 68% avg.; headed 33%, 48% 1998, 40% avg.; turning color 4%, 14% 1998, 6% avg. Barley 3% fair, 72% good, 25% excellent. Barley jointed 85%, 99% 1998, 95% avg.; boot 71%, 85% 1998, 82% avg.; headed 53%, 56% 1998, 56% avg., turning color 5%, 7% 1998, 6% avg. Oats 1% very poor, 11% fair, 77% good, 11% excellent. Oats jointed 82%, 94% 1998, 88% avg.; boot 46%, 75% 1998, 64% avg.; headed 15%, 45% 1998, 30% avg. Sugar beet 3% fair, 75% good, 22% excellent. Dry bean 2% fair, 86% good, 12% excellent. Corn 3% fair, 62% good, 35% excellent. Corn average height 14", 13" 1998, 16" avg. Alfalfa first cutting 37%, 28% 1998, 35% avg. Other hay cut 10%, 12% 1998, 13% avg. Range, pasture feed 8% fair, 57% good, 35% excellent. Above normal temperatures for most of the week. Some hail damage in southeast areas of the State.

International Weather and Crop Summary

June 20 - 26, 1999

HIGHLIGHTS

EUROPE: Heavy rains and unseasonably cool conditions slowed crop development in eastern areas, while scattered showers benefited immature winter grains and spring-sown crops in northern and western Europe.

FSU-WESTERN: Showers and cooler weather ended a prolonged period of unfavorable heat and dryness in Ukraine and southern Russia, easing stress on crops.

FSU-NEW LANDS: Light to moderate showers continued to provide adequate moisture for spring grains in the vegetative stage but continued unseasonably cool weather slowed crop development.

EASTERN ASIA: Widespread showers benefited summer crops across most of the region, but heavy showers possibly caused flooding in the eastern Yangtze Valley, South Korea, and southern Japan.

SOUTH ASIA: Coarse grain, oilseed, and cotton planting progressed in central India.

SOUTHEAST ASIA: Showers diminished across Thailand, but moisture supplies remained adequate for main-season rice.

AUSTRALIA: Drier weather returned to primary winter grain areas, while inundating rains hit southern sugarcane areas.

CANADA: Somewhat warmer weather prevailed across eastern Prairies, but wet, cool weather slowed crop development and replanting efforts elsewhere.

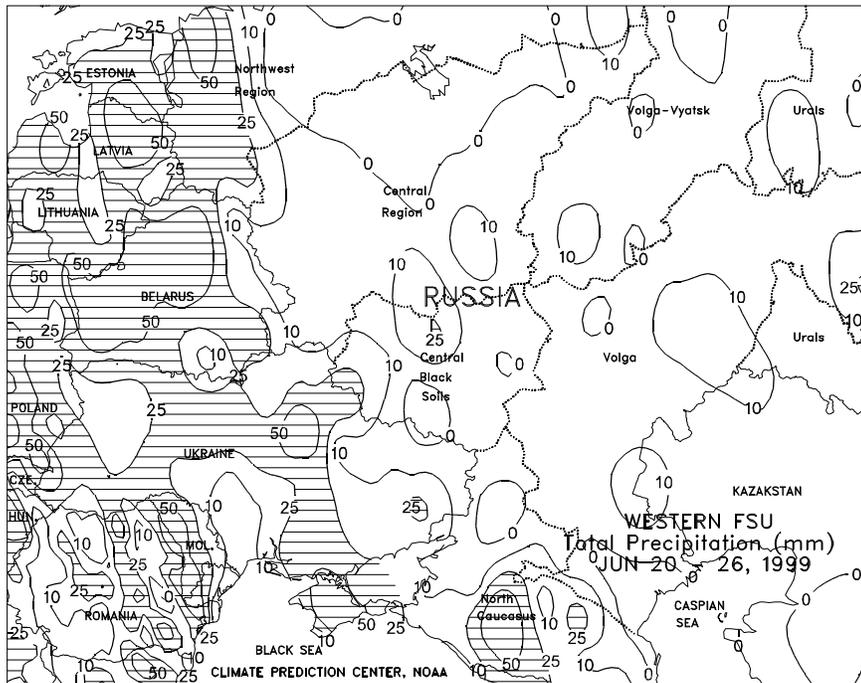
SOUTH AMERICA: Continued dry weather across central Argentina reduced topsoil moisture for winter wheat development.

MEXICO: Widespread showers benefited corn in the main corn belt and eased long-term drought in north-central Mexico.



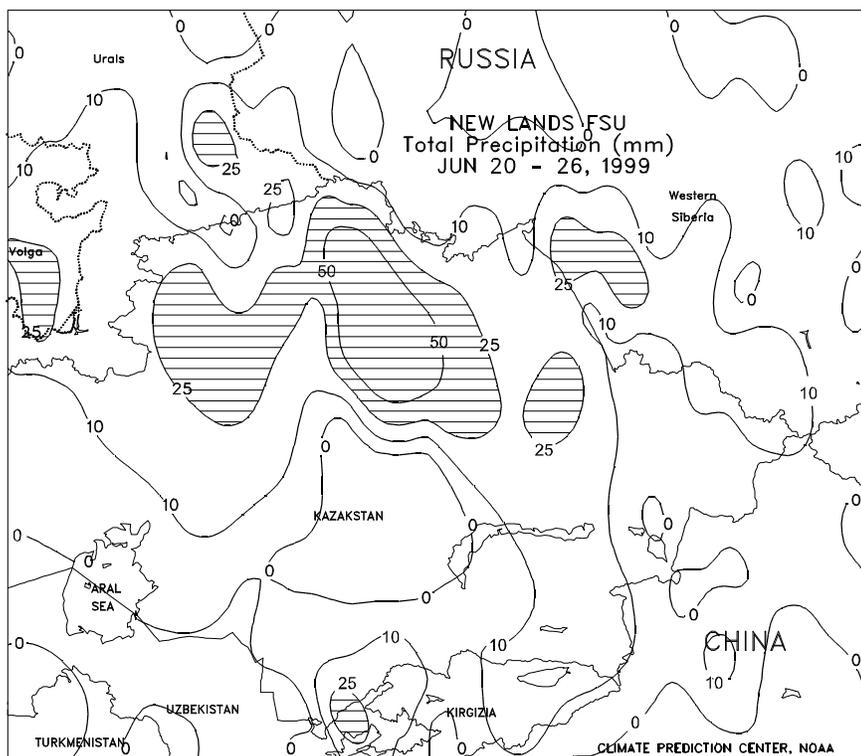
EUROPE

In England, near-normal temperatures and occasional light showers (less than 10 mm) provided favorable conditions for filling to maturing winter grains and developing spring-sown crops. Generally dry weather and slightly below normal temperatures (1 to 3 C below normal) prevailed over most of France, with scattered mainly light showers (less than 10 mm) occurring early and late in the week. Unseasonably hot (temperatures 2 to 5 C above normal) weather in the Iberian peninsula benefited cotton. However, non-irrigated summer crops continued to suffer from a lack of moisture as light showers (less than 10 mm) remained confined to northern Spain. Farther east in northern and central Europe, unseasonably cool (temperatures 2 to 5 C below normal), showery weather prevailed. The rain (5-30 mm or more) in northern and central Europe benefited winter grains in the filling stages of development, with precipitation amounts (20-40 mm) greatest in the Benelux countries, Denmark, and Sweden. In sections of northern and central Italy, rain (25-50 mm) early in the week was followed by several days of sunshine, benefiting corn, sunflower, and soybean development. In eastern Europe, moderate to heavy rains provided abundant moisture for spring-sown crops, but cool weather slowed crop development. The heaviest rains (50-100 mm) fell from eastern Poland south through Slovakia, Hungary, and central Romania, where localized flooding was reported. Elsewhere over eastern Europe, rainfall amounts of 20-40 mm were common, except over Greece, where seasonably dry conditions prevailed.



FSU-WESTERN

In Russia, scattered showers (3-17 mm) were accompanied by cooler weather at week's end (maximum temperatures falling below 30 degrees C). This ended a prolonged period of unfavorable heat and dryness that had prevailed in southern areas (North Caucasus, lower Volga Valley, and the southern portion of the Black Soils region) since the beginning of June. The precipitation arrived too late to improve prospects for maturing winter grains and brought only temporary relief for spring grains and summer crops. On most days during the week, maximum temperatures ranged from 30 to 34 degrees C. Subsoil moisture reserves remained limited throughout most of Russia. As a result, additional precipitation and seasonable temperatures are needed throughout the remainder of the growing season to prevent renewed stress on spring grains and summer crops. In Ukraine, unseasonably mild weather was accompanied by light to moderate showers (10-35mm) that fell periodically during the week. Although the precipitation favored immature winter grains as well as spring-sown crops, maximum temperatures ranged from 30 to 33 degrees C in the eastern two-thirds of Ukraine, increasing crop-water requirements. Like Russia however, cooler weather overspread the region by week's end. In western Ukraine, cool weather prevailed over the region, with maximum temperatures falling into the teens C during the midweek. Elsewhere, moderate to locally heavy rain (25-75 mm or more) soaked crop areas in Belarus and the Baltics, providing abundant moisture for crop development.

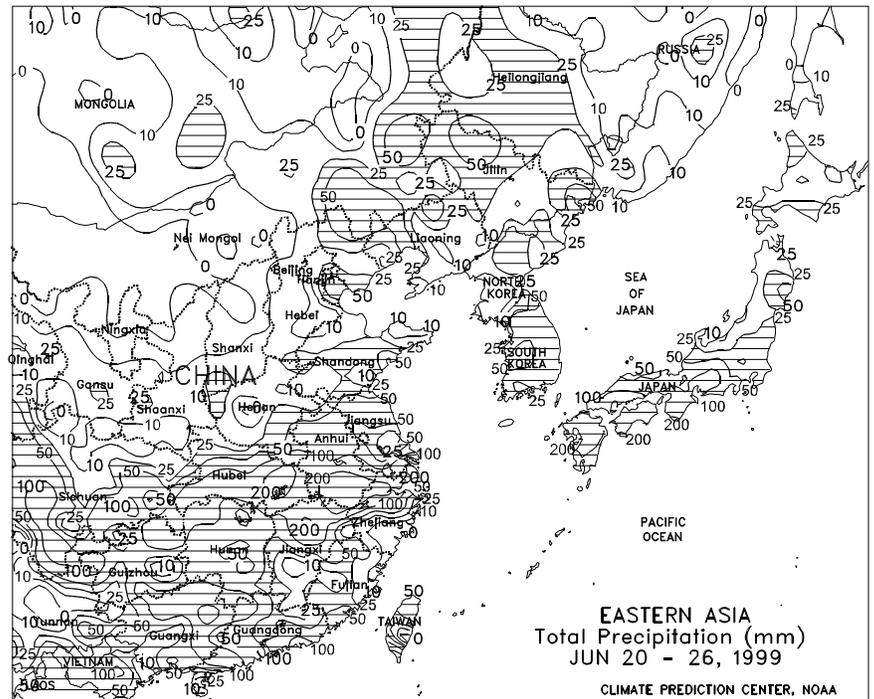


FSU-NEWLANDS

Light to moderate showers continued to maintain sufficient moisture conditions for vegetative spring grains in Russia and Kazakhstan. In Russia, greatest amounts of precipitation (10-43mm) fell in the Urals and the Altay Kray region in Western Siberia. In Kazakhstan, soaking rains (25-50 mm or more) fell in major spring grain producing areas of the central portion of the country, boosting soil moisture. The second consecutive week of unseasonably cool weather prevailed in Russia and Kazakhstan, slowing spring grain development but lowering evaporation rates. Minimum temperatures at most locations remained above freezing. In cotton growing areas of Central Asia, unseasonably cool weather (weekly temperatures averaging 1 to 3 degrees C below normal), slowed cotton development. Seasonably dry weather prevailed over most areas. The exception was in extreme eastern Uzbekistan, where light to moderate showers (10-44 mm) eased irrigation requirements.

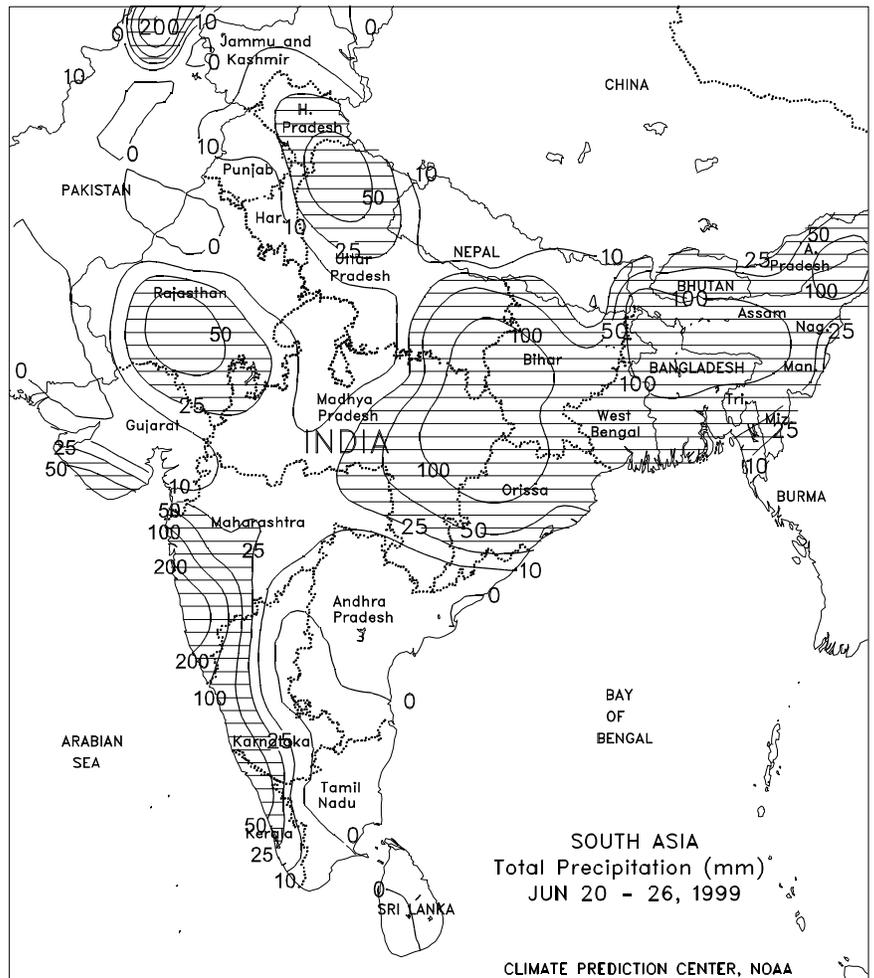
EASTERN ASIA

Widespread showers (10-40 mm) covered most of the North China Plain, increasing topsoil moisture for vegetative summer crops which were becoming dry. Heavier amounts (30-75 mm), also aided vegetative corn, soybeans, and spring wheat in Manchuria. Near-normal temperatures across the North China Plain and Manchuria favored crop development. In the Yangtze Valley, very heavy showers (200-500 mm) fell in southeastern Hubei and southern Anhui and Jiangsu, disrupting early rice harvesting and late rice transplanting. Elsewhere in the Yangtze Valley and southern China, widespread showers (30-125 mm) improved moisture supplies for rice, corn and soybeans. Heavy showers (100-200 mm) covered South Korea and southern Japan, boosting moisture supplies but causing some local flooding. Light to moderate showers (10-40 mm) benefited summer crops in North Korea and northern Japan. Temperatures averaged near normal across southern China, the Korean peninsula, and Japan.



SOUTH ASIA

A break in the southwest monsoon circulation brought drier weather (rainfall totaling 5-25 mm) to central India, and kept India's southern interior unfavorably dry. In central India, groundnut, soybean, and cotton planting is likely making rapid progress following recent weeks of beneficial rain in Gujarat and western Madhya Pradesh. More rain is needed, however, in important oilseed and cotton areas of the southern Interior (Karnataka and Andhra Pradesh) for proper establishment. Monsoon showers intensified over the eastern rice areas, with moderate to heavy amounts (50-100 mm or more) recorded from rainfed crop areas of Madhya Pradesh and Orissa eastward through Bangladesh to India's Eastern States. Moisture reserves are adequate to abundant for rice in the predominantly irrigated areas. In the far north, rainfall was generally scattered and light, but the normal date for monsoon establishment is still 1 to 2 weeks away. Temperatures continued to average below normal throughout the region but little effect was noted to the overall circulation.



SOUTHEAST ASIA

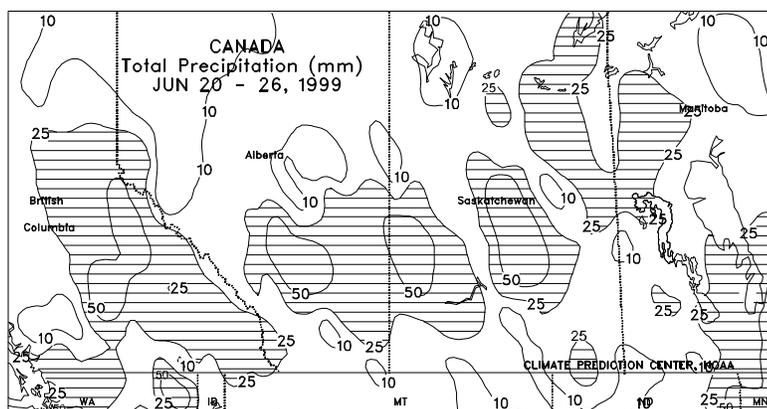
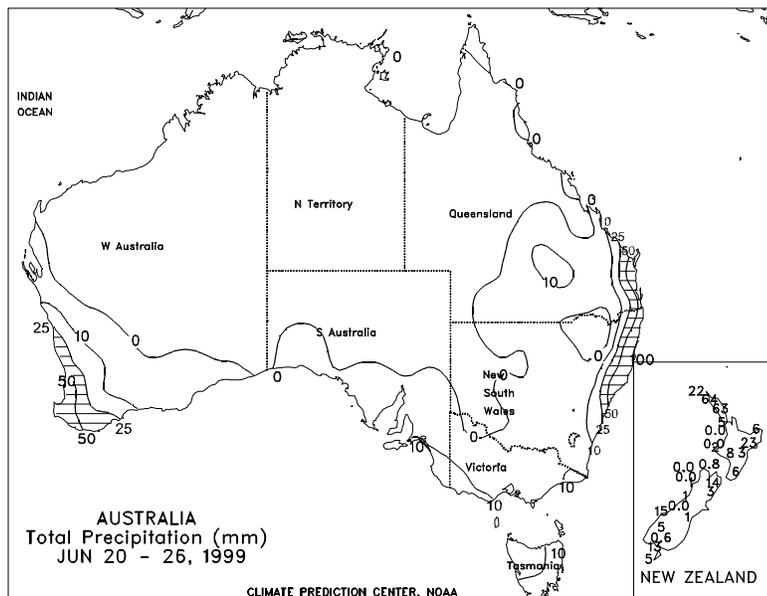
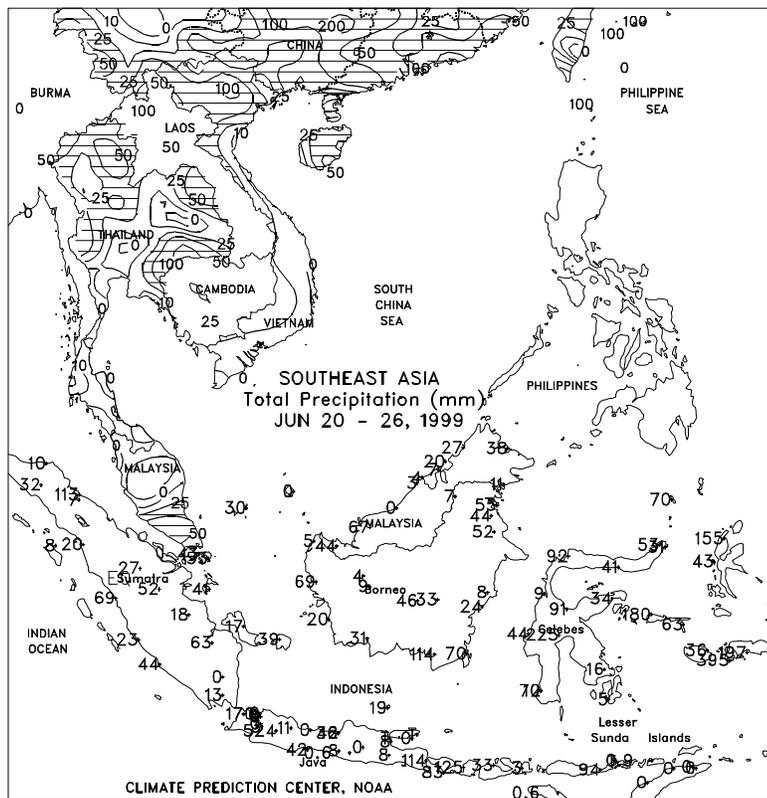
Showers (10-50 mm, with isolated amounts greater than 75 mm) diminished across Thailand but moisture supplies remain adequate for main-season rice. In northern Vietnam, showers (30-70 mm) boosted moisture supplies for main-season (10th month) rice transplanting but caused only minor delays to winter-spring rice harvesting in northern Vietnam. Mostly dry weather dominated southern Vietnam, favoring main-season (10th month) rice transplanting. In the Philippines, showers (20-75 mm) continued to maintain moisture supplies for rice, corn, and sugarcane. Lighter showers (10-50 mm) fell across the oil palm areas of peninsular Malaysia, but moisture supplies remained adequate. Scattered showers (5-50 mm) fell across Java, Indonesia, where adequate irrigation supplies exist for second-season rice. In eastern Java and Bali, unseasonably heavy showers (80-170 mm) boosted moisture supplies, but possibly caused some flooding.

AUSTRALIA

Showers were generally scattered and light throughout the main winter grain areas. In Western Australia, rain (5-40 mm) was again concentrated mainly in the southwestern agricultural districts. Warm, dry weather continued in Western Australia's northern and eastern wheat and barley areas, advancing crop development and allowing further flood recovery in northern districts. Farther east, additional rain is still needed for normal crop development in most crop areas. In the southeast (South Australia, Victoria, and southern New South Wales), moisture is still needed for establishment, especially at the northern and western fringes. Cool, mostly dry weather in southern Queensland and northern New South Wales slowed vegetative development, with spotty frost possibly causing some burn back. In contrast, locally heavy rain (50-100 mm or more) along the New South Wales coast was untimely for sugarcane harvesting. In New Zealand, mostly dry weather (rainfall totaling less than 10 mm) covered the main grain and pasture areas.

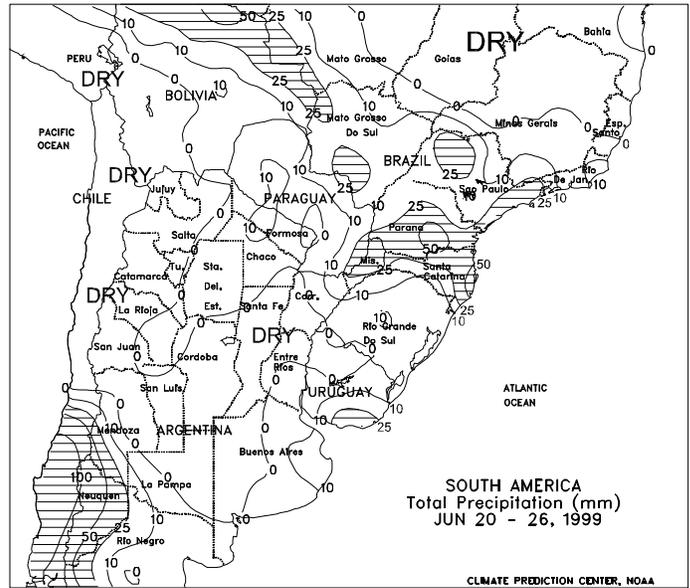
CANADA

In the eastern Prairies, warmer weather (temperatures averaged near normal to 1-2 degrees C below normal) aided crop development, especially in Manitoba. Unfortunately, moderate showers (15-40 mm) slowed replanting efforts and recovery from excessive soil moisture. Spraying for pests and diseases has been disrupted by the chronic wetness, and drier weather is needed for spot treatments. Farther west, cool, showery, (15-60 mm) conditions prevailed as below-normal temperatures retarded crop growth. Temperatures fell below 5 degrees C over Alberta and sections of northern and southwestern Saskatchewan, but frost was likely isolated. Prairie crops usually begin entering reproduction in early July but most areas will be delayed this season due to the late plantings. In eastern Canada, dry, warmer-than-normal weather (temperatures averaging 2-4 degrees C above normal) aided vegetative growth of corn and soybeans. Conditions were also favorable for reproductive winter wheat and fostered the resumption of fieldwork such as spraying and weeding.



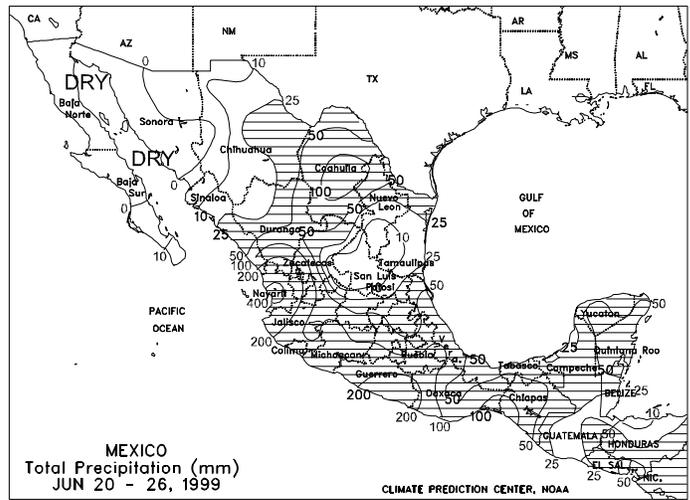
SOUTH AMERICA

In central Argentina, mostly dry, warm weather continued to favor summer crop harvesting and winter wheat planting. Dry topsoils are becoming more of a concern for wheat development. Rain will be needed during the next few weeks to moisten soils for crop growth. In northern Argentina, mostly dry weather (less than 15 mm) aided cotton harvesting. Temperatures averaged 2 to 5 degrees C above normal across central and northern Argentina, aiding crop dry down. According to reports as of June 18, Argentine corn was 89 percent harvested, compared with 80 percent last year; soybeans were 97 percent harvested, compared with 95 percent last year; and cotton was 72 percent harvested, compared with 63 percent last year. Wheat planting was 43 percent complete compared to the 3-year average of 38 percent complete. In southern Brazil, light to moderate showers (5-40 mm) continued to favor germinating to vegetative winter wheat, but slowed coffee and citrus harvesting in Sao Paulo and Minas Gerais. Temperatures averaged 1 to 3 degrees C above normal.

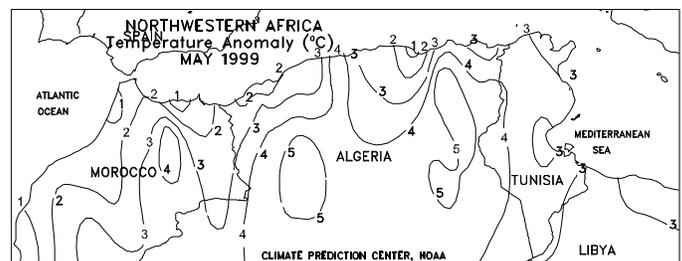
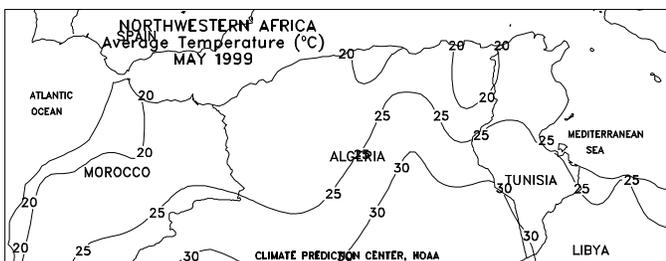
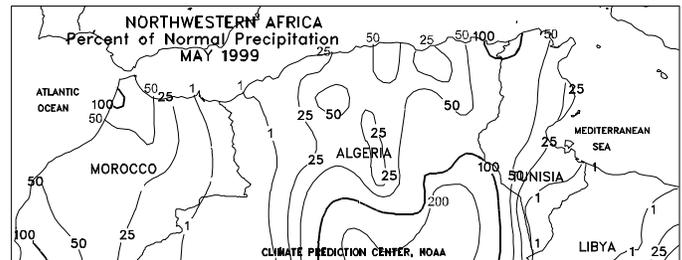
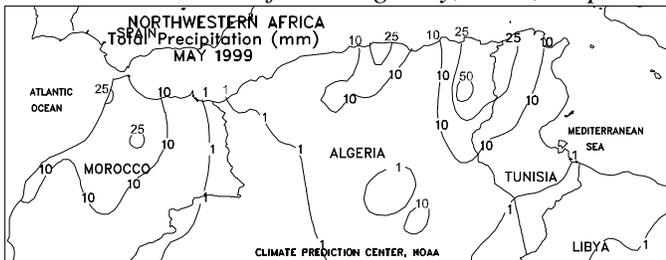


MEXICO

Widespread moderate to heavy showers (40-150 mm) covered the Southern Plateau corn belt, greatly aiding vegetative corn. Much-needed showers (30-100 mm) fell across portions of western Mexico (Sinaloa) and all of north-central Mexico, easing long-term drought conditions. This moisture was partly due to Tropical Storm Adrian which paralleled the western coast from June 18 to 22. More rain will be needed to increase reservoir levels across north-central Mexico. Northwestern Mexico remained seasonably dry. Temperatures averaged near normal to slightly below normal across most of the country.



CORRECTION: The monthly maps in the June 22, 1999, issue (Volume 86, No. 25) for Northwestern Africa were incorrect. The following May, 1999, maps have been corrected.



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Pasture and Range Crop Condition by Percent											
Week Ending June 27, 1999											
	VP	P	F	G	EX		VP	P	F	G	EX
AL	1	4	16	60	19	NH	5	21	53	21	0
AZ	7	25	48	20	0	NJ	0	20	60	20	0
AR	1	4	26	59	10	NM	8	14	38	30	10
CA	0	5	20	75	0	NY	31	55	8	6	0
CO	1	3	13	70	13	NC	1	11	36	44	8
CT	16	48	36	0	0	ND	1	2	6	68	23
DE	2	28	41	27	2	OH	7	22	36	31	4
FL	0	0	20	75	5	OK	0	4	16	60	20
GA	8	19	37	32	4	OR	1	14	39	46	0
ID	0	0	15	57	28	PA	6	44	39	11	0
IL	0	1	15	64	20	RI	2	43	42	13	0
IN	1	8	36	49	6	SC	4	15	38	40	3
IA	1	2	14	56	27	SD	0	0	5	56	39
KS	0	1	14	68	17	TN	5	20	34	38	3
KY	8	24	34	30	4	TX	2	7	29	43	19
LA	1	4	32	53	10	UT	0	5	37	55	3
ME	1	11	38	46	4	VT	4	32	53	10	1
MD	8	21	37	33	1	VA	28	37	27	8	0
MA	0	37	63	0	0	WA	10	12	45	30	3
MI	2	10	35	46	7	WV	26	43	23	8	0
MN	1	3	21	62	13	WI	0	1	14	57	28
MS	2	10	30	49	9	WY	0	0	8	57	35
MO	1	3	23	61	12	48 Sts	3	9	23	50	15
MT	1	4	23	40	32						
NE	0	1	11	62	26	Prev Wk	3	9	23	50	15
NV	0	7	13	76	4	Prev Yr	6	13	26	42	13

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