

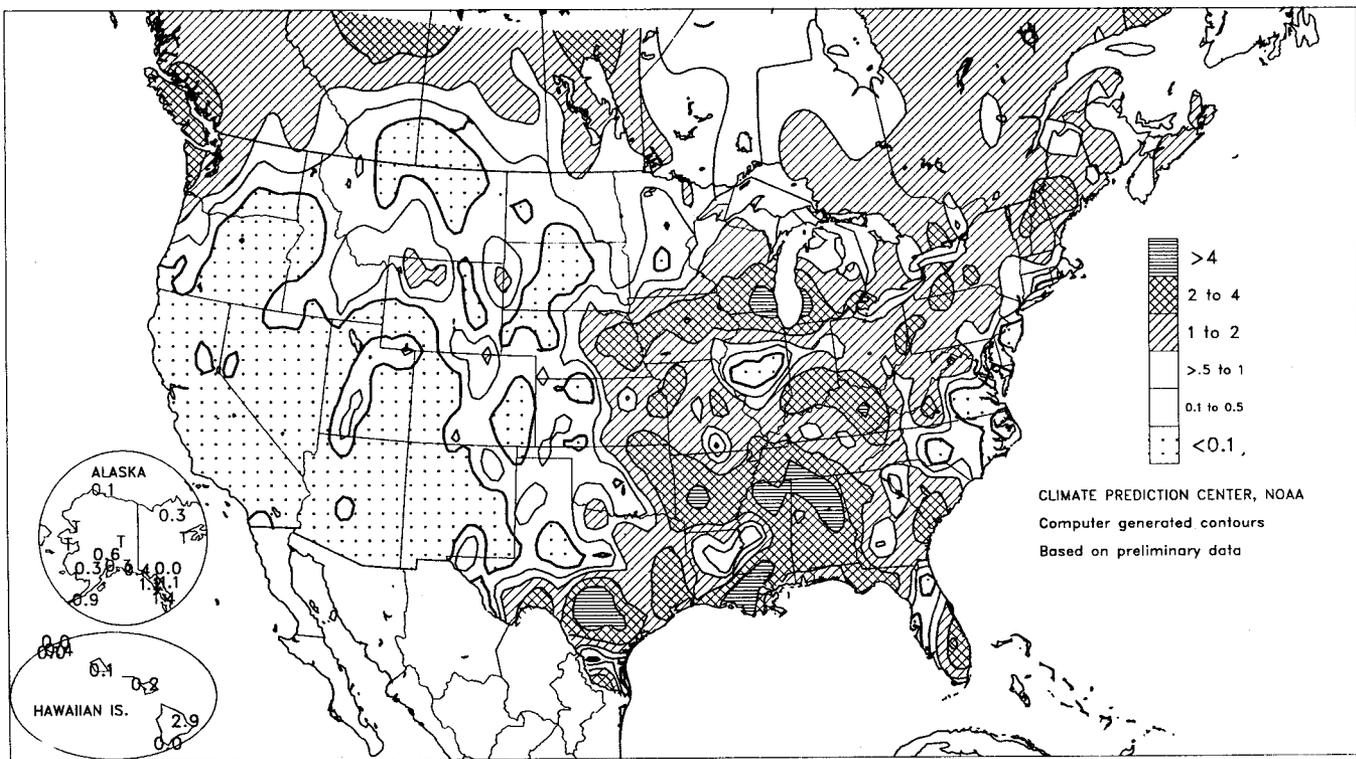
WEEKLY WEATHER AND CROP BULLETIN

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 15 - 21, 1997



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

HIGHLIGHTS

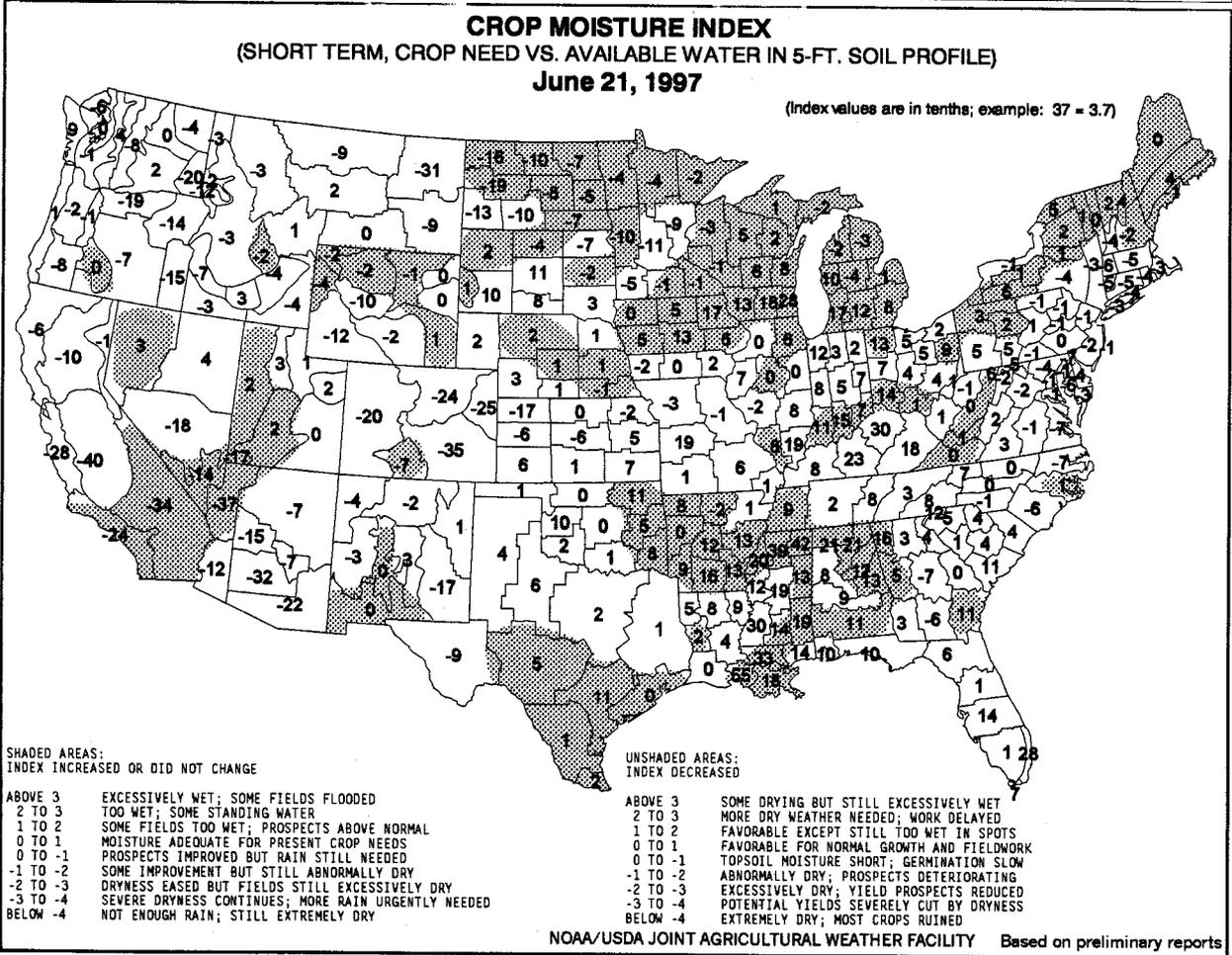
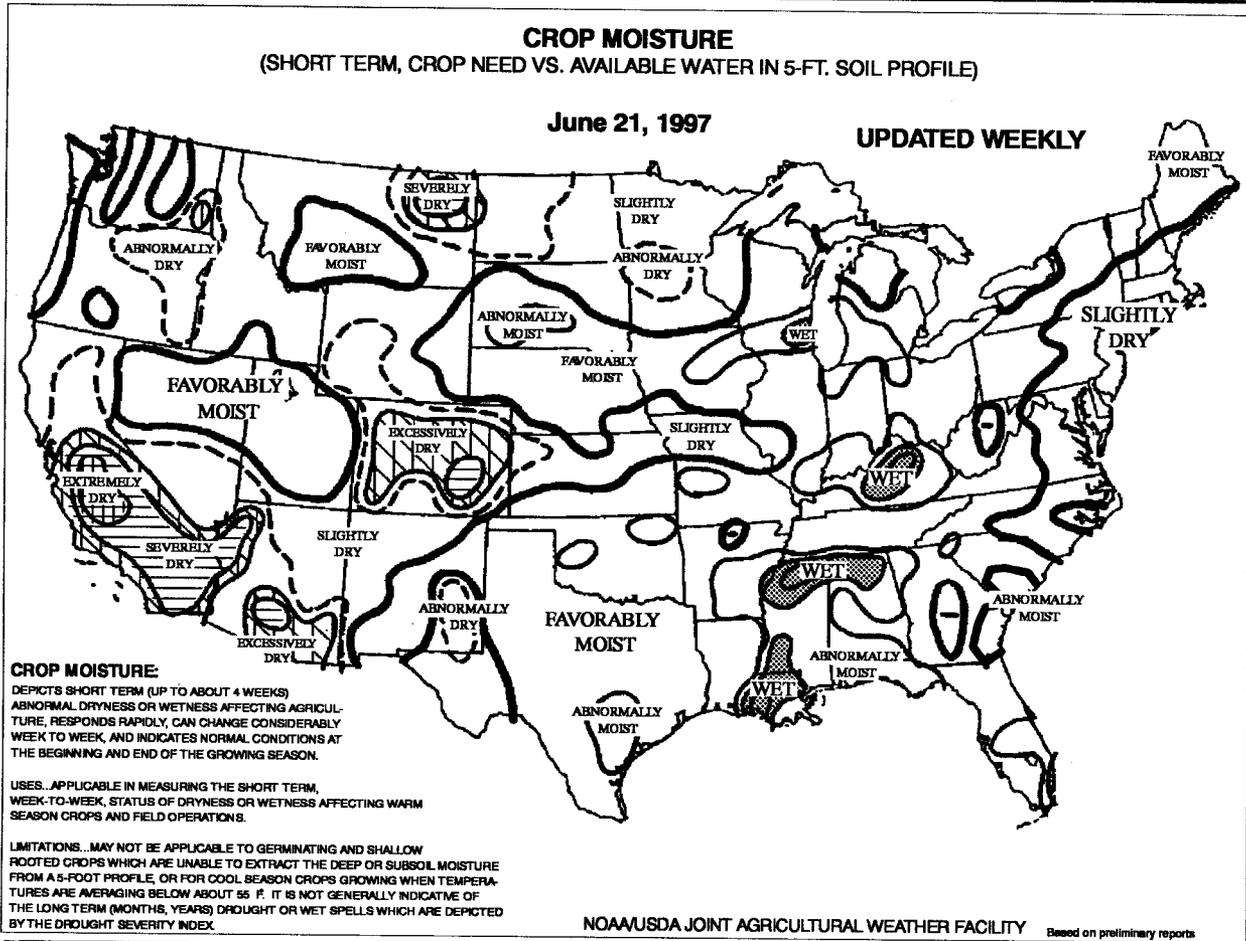
June 15 - 21, 1997

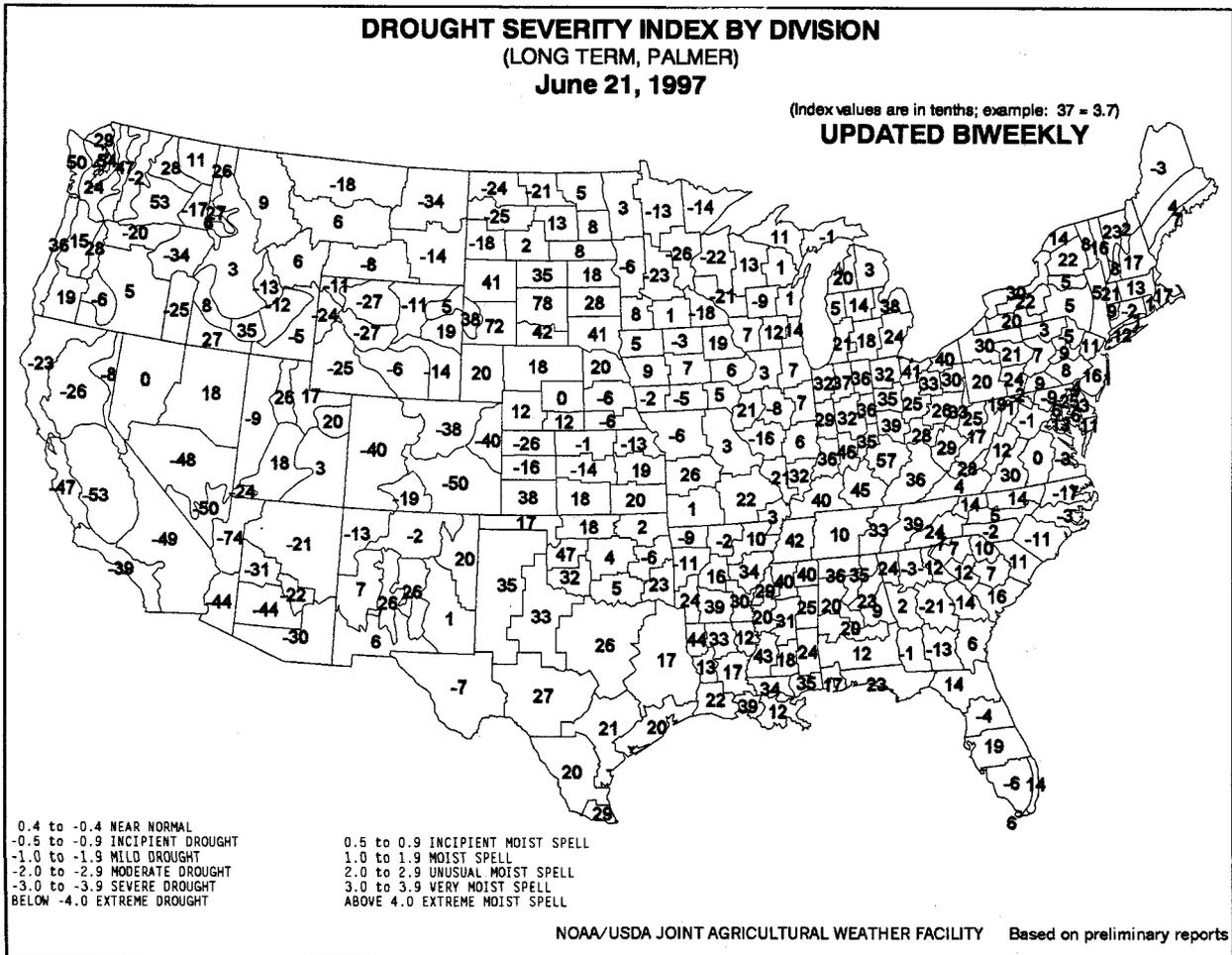
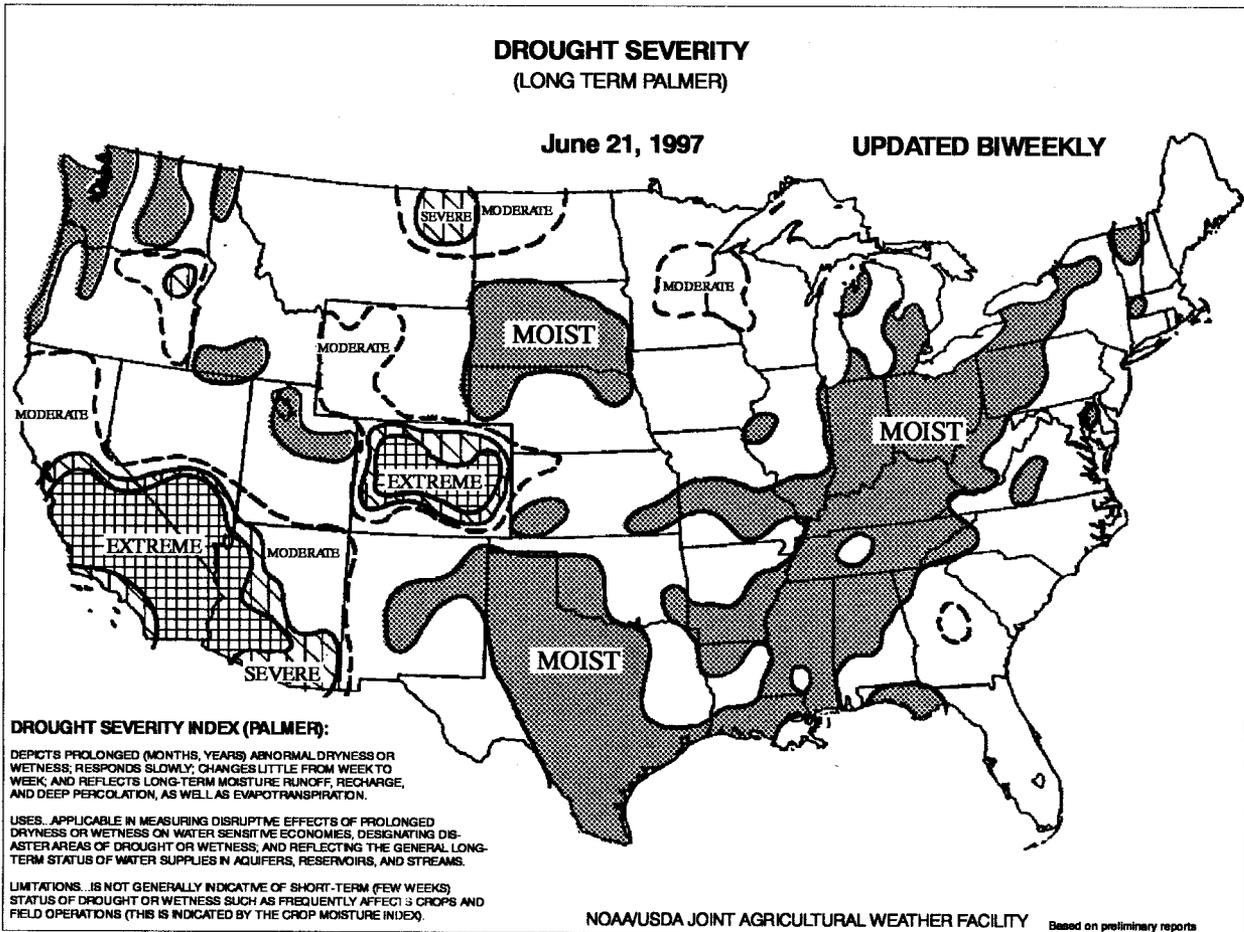
Summer arrived with a vengeance over the eastern half of the country, as sultry air masses finally ended a 10-week streak of below-normal temperatures. Hot, humid air, in combination with eastward-tracking fronts, fueled heavy rains and numerous severe thunderstorms east of the Continental Divide. Heavy rain continued across the Ohio and Tennessee Valleys through midweek, but much warmer conditions thereafter favored crop development and allowed fields to dry. Early-week rains briefly delayed the winter wheat harvest on the southern Plains, but mid- to late-week heat permitted the harvest to resume. Farther north, showers

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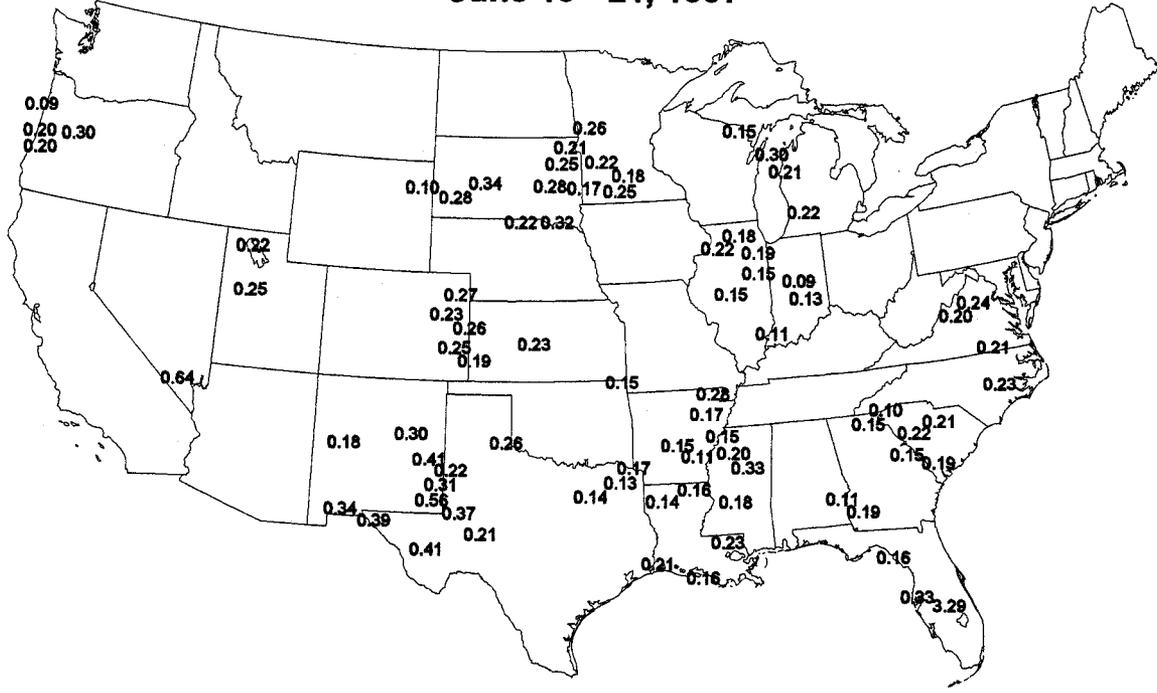
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Average Pan Evaporation (Inches/Day)

June 15 - 21, 1997



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

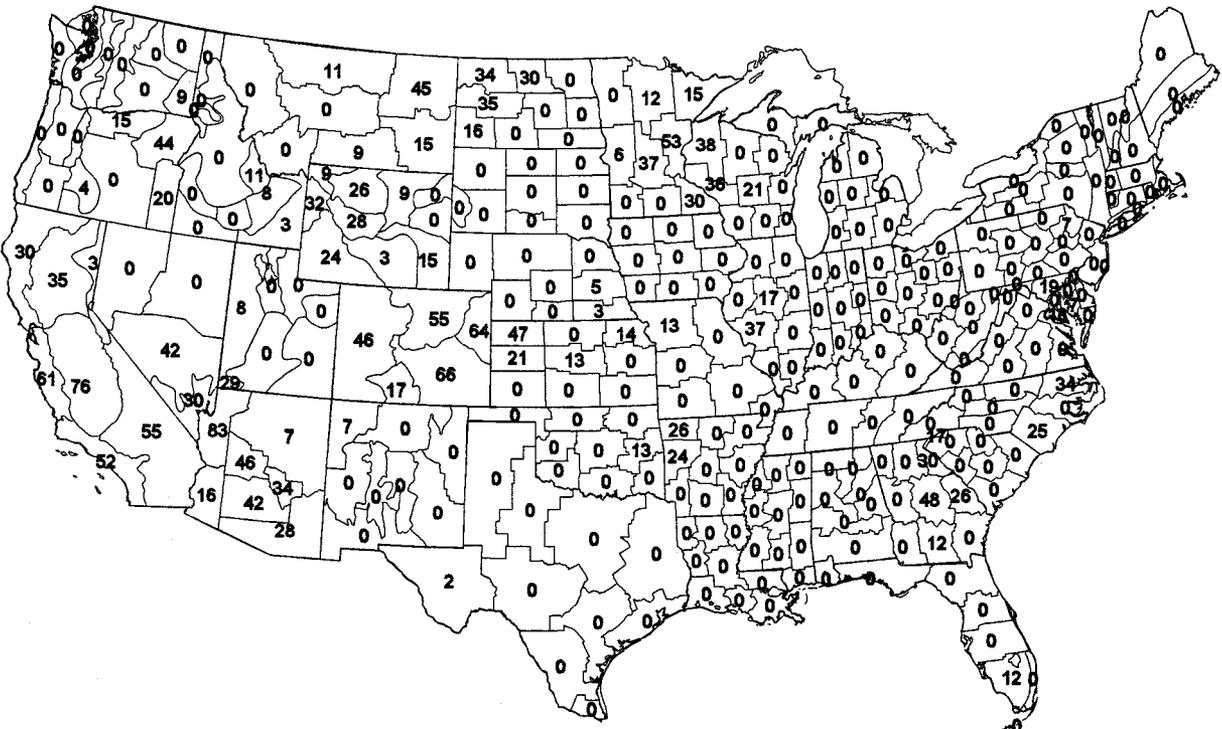
ADDITIONAL PRECIPITATION NEEDED TO BRING INDEX NEAR ZERO

(LONG TERM, PALMER)

June 21, 1997

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

UPDATED BIWEEKLY



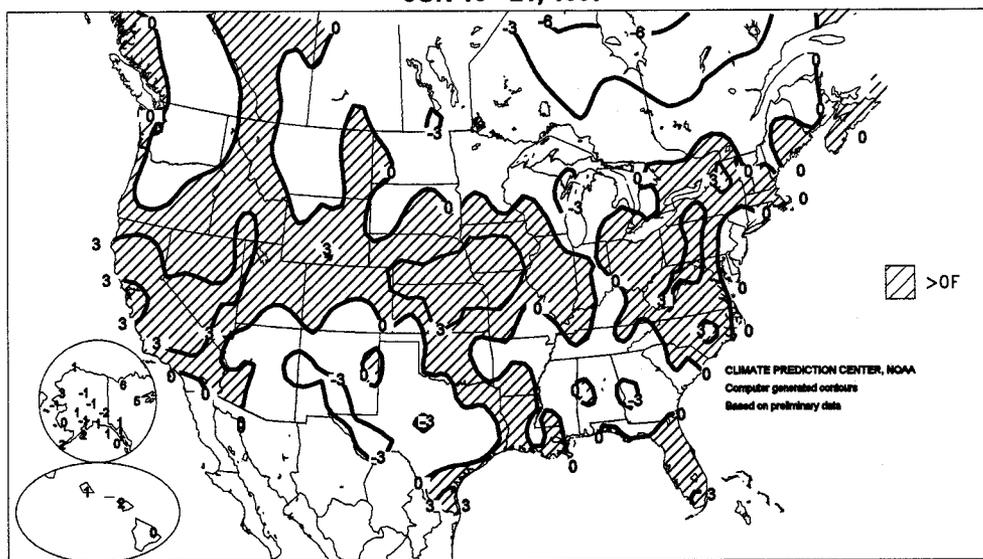
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

(Continued from front cover)

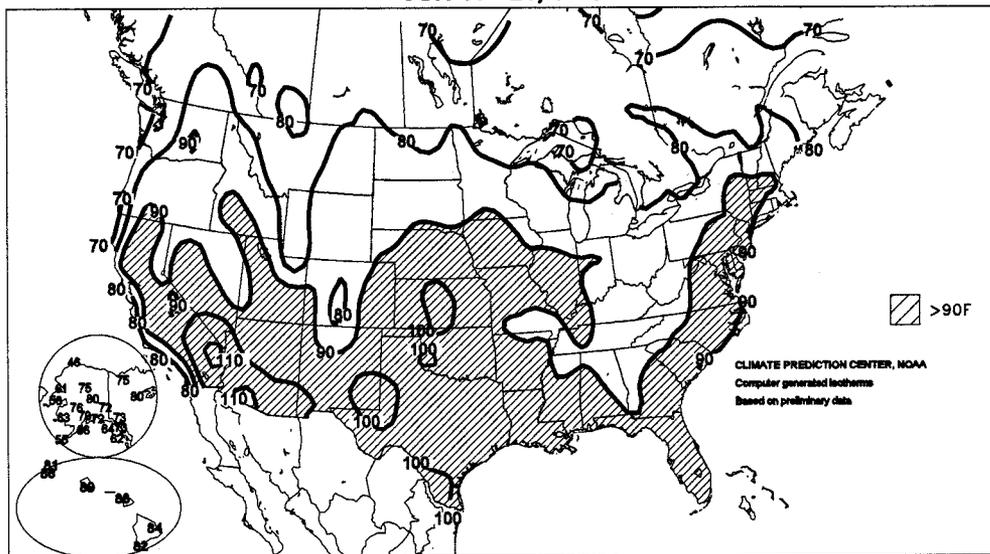
benefited crops across the northern Plains and upper Midwest. Meanwhile in the interior Northwest, the combination of snowmelt and runoff from early-June rainfall kept rivers running high. Weekly rainfall amounts exceeded 2 inches in many areas, including the northern Corn Belt, Ohio and Tennessee Valleys, Mississippi Delta, and south-central Texas. Weekly temperatures averaged above normal in a broad stripe from California to the eastern seaboard.

Early in the week, a pocket of cool air edged across the Midwest and Northeast, setting nearly a dozen daily-record lows. On Sunday, lows dipped to 39°F in Muskegon, MI and 43°F in Mansfield, OH. A separate area of cool air cloaked the Southwest, where Flagstaff, AZ reported 28°F. Hot air began to build across the South, however, as Shreveport, LA tallied its first 90-degree maximum of the year on June 15, tying 1976 for the latest such occurrence on record. Farther north, Indianapolis, IN notched its first 80-degree maximum of the month on June 17, 4 days later than the previous record set on June 1-13, 1889 and 1910. On Wednesday, readings hit the 90's from Nebraska to Texas, and broached the 100-degree mark over interior central and southern California. Thursday and Friday saw the mercury hit triple-digit readings in parts of Kansas and Texas, as well as the interior Southwest. In the Plains, the heat wave peaked on Friday with a maximum of 107°F at Hill City, Kansas. Most of the Northeast finally saw readings hit the 90's on Saturday.

Departure of Average Temperature from Normal (°F)
JUN 15 - 21, 1997



Extreme Maximum Temperature (°F)
JUN 15 - 21, 1997



In southern Montana, the Yellowstone River receded from early-June's record levels at Billings and near Livingston. The river peaked on June 5 near Livingston, and a week later in Billings. Meanwhile in eastern North Dakota, the rate of Devils Lake's rise slowed due to recent dry weather. Nevertheless, the lake rose to 1,442.2 feet by June 18, 1.2 feet above the approximate historical maximum set in 1830. Serious flooding also continued on Idaho's Snake River Plain.

Thunderstorms brought damaging winds, large hail, and local flooding to many Central and Eastern States during the week, but the rains benefited some areas that had been tending dry recently, including Nebraska, Iowa, and northern Illinois. A tropical-like low-pressure area brought torrential rains to south-central Texas beginning on Saturday, June 21, with weekend totals exceeding 15 inches just west of San Antonio.

National Weather Data for Selected Cities

Weather Data for the Week Ending June 21, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL IN, SINCE Jun 1	PCT. NORMAL SINCE Jun 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP, °F		PRECIP.	
																		01 INCH OR MORE	.50 INCH OR MORE		
AL	BIRMINGHAM	85	68	89	64	76	-1	2.00	1.16	0.75	4.14	164	27.98	99	97	64	0	0	4	2	
	HUNTSVILLE	82	66	88	63	74	-3	2.89	1.75	0.94	4.37	152	30.86	105	95	65	0	0	5	3	
	MOBILE	87	72	90	69	80	-1	1.09	-0.07	0.44	3.82	111	34.07	113	96	67	2	0	4	0	
	MONTGOMERY	87	68	91	65	78	-1	2.35	1.15	1.13	2.93	86	26.76	95	96	65	1	0	6	2	
AK	ANCHORAGE	62	46	70	44	54	-1	0.26	-0.02	0.22	0.59	80	2.59	58	86	51	0	0	3	0	
	BARROW	41	32	46	30	36	1	0.08	0.01	0.05	0.08	57	0.33	38	98	87	0	4	3	0	
	FAIRBANKS	72	48	80	41	60	0	0.02	-0.32	0.02	0.18	20	0.93	30	76	36	0	0	1	0	
	JUNEAU	61	47	73	43	54	0	-	-	-	-	-	-	95	63	0	0	-	-	-	
	KODIAK	59	45	66	38	52	2	0.04	-1.05	0.04	0.54	16	33.25	109	88	53	0	0	1	0	
	NOME	52	39	58	35	48	-1	0.02	-0.25	0.02	0.05	7	4.11	104	89	67	0	0	1	0	
AZ	FLAGSTAFF	77	39	83	28	58	-2	0.00	-0.09	0.00	0.08	73	6.27	70	63	17	0	2	0	0	
	PHOENIX	101	75	108	68	88	-1	0.00	-0.03	0.00	0.00	0	1.70	64	31	13	6	0	0	0	
	PRESCOTT	87	53	93	41	70	2	0.04	-0.07	0.04	0.11	85	4.43	69	45	15	5	0	1	0	
	TUCSON	99	67	104	64	83	-2	0.00	-0.05	0.00	0.02	40	2.54	91	32	10	7	0	0	0	
	YUMA	103	76	107	67	90	1	0.00	0.00	0.00	0.20	-	0.75	77	44	17	7	0	0	0	
AR	FORT SMITH	88	67	92	62	77	0	1.78	1.04	1.09	3.20	127	19.66	97	96	61	3	0	3	2	
	LITTLE ROCK	88	69	92	65	78	-1	2.53	0.00	-	2.80	119	29.88	123	92	59	3	0	2	2	
CA	BAKERSFIELD	95	68	101	62	82	3	0.00	-0.03	0.00	0.00	0	2.99	78	55	24	6	0	0	0	
	EUREKA	64	53	68	49	58	3	0.00	-0.10	0.00	1.00	238	19.07	92	90	69	0	0	0	0	
	FRESNO	96	69	101	61	82	5	0.00	-0.02	0.00	0.01	14	3.52	51	61	25	6	0	0	0	
	LOS ANGELES	74	63	76	60	69	3	0.00	0.00	0.00	0.00	0	4.21	54	86	66	0	0	0	0	
	REDDING	95	66	99	54	81	4	0.10	-0.02	0.10	1.58	351	16.60	89	62	17	6	0	1	0	
	SACRAM/MCCLELL	94	63	99	59	79	-	0.00	-	0.00	0.61	-	9.26	-	74	27	7	0	0	0	
	SAN DIEGO	70	63	72	62	66	-1	0.00	-0.03	0.00	0.00	0	3.54	57	84	70	0	0	0	0	
	SAN FRANCISCO	70	55	73	54	62	0	0.00	-0.03	0.00	0.18	225	8.72	71	87	56	0	0	0	0	
CO	ALAMOSA	76	42	84	37	59	-1	0.33	0.17	0.23	0.80	186	3.04	120	90	24	0	0	3	0	
	COLORADO	78	54	88	47	66	0	0.33	-0.19	0.16	5.30	349	10.55	163	73	32	0	0	4	0	
	DENVER	83	55	91	50	69	1	0.02	-0.39	0.02	2.04	159	5.73	74	80	31	2	0	1	0	
	GRAND JUNCTION	90	58	97	51	74	1	0.00	-0.11	0.00	0.29	81	5.17	133	54	19	4	0	0	0	
	PUEBLO	87	53	97	48	70	-2	0.15	-0.14	0.08	2.06	254	5.73	132	82	25	3	0	2	0	
CT	BRIDGEPORT	75	59	86	53	67	-1	0.35	-0.45	0.35	1.23	51	17.65	88	89	59	0	0	1	0	
	HARTFORD	82	56	94	45	69	0	0.83	-0.04	0.79	0.94	35	14.88	71	89	41	1	0	2	1	
DC	WASHINGTON	86	66	93	60	76	0	0.24	-0.53	0.24	2.66	113	17.62	102	87	49	2	0	1	0	
DE	WILMINGTON	82	61	92	52	71	-1	0.12	-0.71	0.12	1.64	67	11.10	58	94	52	1	0	1	0	
FL	DAYTONA BEACH	90	71	94	69	80	1	1.10	-0.35	0.82	5.52	134	17.39	94	96	60	3	0	4	1	
	JACKSONVILLE	89	70	92	67	80	0	1.21	-0.10	0.53	3.52	95	17.57	86	97	55	3	0	4	2	
	KEY WEST	89	80	90	76	85	1	0.21	-1.01	0.20	4.44	123	13.82	96	84	69	2	0	2	0	
	MIAMI	91	75	92	72	83	1	1.69	-0.55	0.75	12.16	182	32.44	146	92	59	6	0	6	1	
	ORLANDO	92	72	95	69	82	0	0.27	-1.52	0.23	3.53	71	17.70	94	97	51	6	0	3	0	
	TAMPA	93	78	96	75	86	4	0.00	-1.33	0.00	0.20	5	15.48	97	85	51	7	0	0	0	
	VALPARAISO/EGLIN	88	74	95	72	81	1	0.83	-0.69	0.26	1.17	33	29.15	109	93	67	2	0	5	0	
	WEST PALM BEACH	91	74	93	72	82	1	0.81	-1.08	0.26	10.85	190	31.13	132	94	60	5	0	5	0	
GA	ATHENS	84	66	89	62	75	-2	1.07	0.16	0.68	3.63	135	22.93	90	100	67	0	0	4	1	
	ATLANTA	82	66	87	64	74	-2	1.29	0.48	0.79	3.13	129	25.53	97	96	66	0	0	3	1	
	AUGUSTA	89	67	92	63	78	0	0.82	-0.14	0.39	2.86	100	18.61	81	98	54	3	0	3	0	
	COLUMBUS	85	69	88	66	77	-3	2.31	1.36	0.98	3.15	115	25.61	97	94	62	0	0	3	3	
	MACON	86	68	93	64	77	-2	0.52	-0.31	0.36	0.98	40	20.15	86	98	64	1	0	3	0	
	SAVANNAH	87	69	91	67	78	-1	3.19	1.84	1.27	5.31	138	18.55	86	99	65	1	0	5	2	
HI	HILO	83	69	84	67	76	0	2.85	1.47	1.34	10.05	237	56.25	89	93	67	0	0	7	1	
	HONOLULU	88	74	89	73	81	1	0.09	-0.02	0.04	0.15	39	14.55	132	79	54	0	0	3	0	
	KAHULUI	86	73	88	70	79	2	-	-	-	-	-	-	88	58	0	0	-	-	-	
	LIHUE	-	75	-	72	-	-	-	-	-	-	-	-	84	71	0	0	-	-	-	
ID	BOISE	83	56	91	50	69	2	0.11	-0.08	0.11	1.04	170	7.46	111	70	24	1	0	1	0	
	LEWISTON	77	57	86	48	67	-1	0.02	-0.27	0.02	0.59	64	9.24	140	66	34	0	0	1	0	
	POCATELLO	80	50	86	40	65	1	0.72	0.49	0.44	1.47	193	6.19	95	80	30	0	0	2	0	
IL	CHICAGO/O'HARE	81	57	89	43	69	0	2.28	1.40	1.11	2.49	95	14.06	93	88	52	0	0	3	2	
	MOLINE	85	61	90	54	73	1	0.87	-0.13	0.72	2.82	96	16.61	98	86	47	1	0	3	1	
	PEORIA	86	62	92	55	74	2	0.07	-0.87	0.07	1.25	48	14.01	87	83	51	2	0	1	0	
	ROCKFORD	81	58	88	48	70	0	1.80	0.53	1.08	3.27	104	16.27	106	85	50	0	0	2	2	
	SPRINGFIELD	87	62	93	57	74	1	0.02	-0.78	0.02	0.61	25	10.35	84	86	50	2	0	1	0	
IN	EVANSVILLE	84	66	89	55	75	-1	1.48	0.70	0.78	5.43	221	30.67	141	94	59	0	0	5	1	
	FORT WAYNE	82	62	90	52	72	1	0.20	-0.65	0.09	2.65	105	18.91	118	92	53	1	0	4	0	
	INDIANAPOLIS	82	63	88	54	72	0	1.42	0.62	0.79	2.41	100	21.34	114	93	55	0	0	5	1	
	SOUTH BEND	81	58	87	45	70	0	1.57	0.59	0.94	2.85	100	14.89	87	87	49	0	0	2	2	
IA	BURLINGTON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	CEDAR RAPIDS	84	62	90	55	73	2	1.92	0.85	1.72	2.56	81	14.10	98	90	53	1	0	3	1	
	DES MOINES	86	66	90	58	76	5	0.87	-0.20	0.80	1.48	48	11.40	75	89	50	1	0	2	1	
	DUBUQUE	81	60	87	53	71	2	2.57	1.61	1.47	3.98	136	15.04	82	88	54	0	0	5	2	
	SIoux CITY	88	61	95	55	74	3	0.47	-0.39	0.24	1.87	63	9.24	78	85	39	2	0	4	0	
	WATERLOO	85	60	91	51	72	2	1.57	0.52	0.76	2.37	77	11.98	82	91	48	1	0	5	2	
KS	CONCORDIA	90	68	96	57	78	4	1.86	0.82	1.34	2.59	81	9.55	72	84	39	3	0	2	1	
	DODGE CITY	89	62	98	56	78	0	0.24	-0.48	0.16	3.14	149	9.42	96	87	39	4	0	2	0	
	GOODLAND	89	58	98	53	73	3	0.45	-0.28	0.29	0.84	37	4.59	51	82	25	4	0	2	0	
	TOPEKA	88	67	92	60	78	3	0.90	-0.41	0.74	1.31	33	13.00	81	89	48	4	0	3	1	

Based on 1961-90 normals

Weather Data for the Week Ending June 21, 1997

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	90 AND ABOVE	92 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
KY WICHITA	90	66	99	61	78	3	0.46	-0.86	0.43	2.45	61	14.02	69	69	42	4	0	2	0		
KY JACKSON	81	63	86	57	72	0	3.14	2.16	2.83	6.55	224	28.80	121	92	62	0	0	3	1		
KY LEXINGTON	80	63	86	50	71	-2	1.93	1.10	1.45	7.80	312	40.52	190	95	65	0	0	4	1		
KY LOUISVILLE	82	66	88	56	74	0	2.53	1.75	1.25	7.20	300	41.17	187	96	66	0	0	4	2		
KY PADUCAH	85	67	90	56	76	0	0.56	-0.37	0.30	3.59	125	31.92	128	92	57	2	0	3	0		
LA BATON ROUGE	88	73	92	69	80	-1	5.55	4.51	4.02	6.22	209	40.24	141	96	66	4	0	4	2		
LA LAKE CHARLES	89	75	91	71	82	1	1.40	0.27	1.04	1.74	49	34.74	145	94	59	3	0	3	1		
LA NEW ORLEANS	87	75	92	72	81	1	2.70	1.31	1.80	5.29	132	29.24	101	92	64	3	0	3	2		
LA SHREVEPORT	89	72	91	67	81	2	0.47	-0.48	0.47	2.93	95	39.39	156	94	59	4	0	1	0		
ME CARIBOU	72	48	75	38	60	-2	0.82	0.15	0.38	2.65	135	16.78	118	90	50	0	0	3	0		
ME PORTLAND	72	54	84	43	63	0	0.51	-0.29	0.34	0.77	32	17.03	82	95	61	0	0	2	0		
MD BALTIMORE	85	60	93	53	73	-1	0.43	-0.42	0.16	2.53	98	18.68	99	96	50	2	0	2	0		
MA BOSTON	77	61	92	53	69	0	0.35	-0.37	0.27	1.08	49	14.86	75	83	54	1	0	2	0		
MA WORCESTER	76	59	87	47	67	2	0.95	0.06	0.84	1.39	51	18.65	84	82	45	0	0	2	1		
MI ALPENA	75	45	83	35	60	-2	0.32	-0.40	0.18	0.35	18	13.41	110	93	44	0	0	3	0		
MI GRAND RAPIDS	78	56	83	46	67	-1	2.49	1.61	1.86	2.52	97	15.44	103	98	60	0	0	3	1		
MI HOUGHTON LAKE	76	47	78	38	61	-2	0.73	0.01	0.31	0.97	45	11.48	98	95	47	0	0	5	0		
MI LANSING	78	59	83	50	68	1	1.32	0.53	0.64	1.48	62	13.48	103	87	56	0	0	4	1		
MI MARQUETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MI MUSKOGON	76	53	80	39	65	-1	2.73	2.19	1.14	3.02	179	13.37	99	94	58	0	0	4	3		
MN DULUTH	69	50	78	45	60	-1	1.23	0.32	0.51	1.57	59	7.41	62	91	49	0	0	4	1		
MN INT'L FALLS	71	48	77	38	59	-3	0.75	-0.22	0.21	1.00	37	5.84	63	96	48	0	0	5	0		
MN MINNEAPOLIS	78	57	86	46	67	-2	0.39	-0.57	0.18	1.09	38	6.84	55	86	48	0	0	3	0		
MN ROCHESTER	77	57	84	48	67	0	0.93	0.08	0.39	1.29	50	10.78	90	92	59	0	0	4	0		
MN ST. CLOUD	77	54	85	46	65	0	0.26	-0.84	0.20	1.03	32	6.11	53	90	44	0	0	2	0		
MS JACKSON	88	70	90	67	79	0	0.24	-0.46	0.22	7.26	316	35.25	120	97	62	2	0	2	0		
MS MERIDIAN	86	68	91	65	78	-1	1.53	0.69	1.07	2.17	89	32.71	110	99	66	2	0	5	1		
MS TUPELO	85	68	88	63	76	-1	4.09	3.24	2.58	8.78	320	39.18	133	96	62	0	0	4	2		
MO COLUMBIA	85	65	95	61	75	3	0.48	-0.43	0.28	1.75	82	19.28	109	96	59	1	0	5	0		
MO KANSAS CITY	87	67	93	63	77	3	0.87	-0.22	0.92	1.75	52	15.21	94	86	50	2	0	3	1		
MO SAINT LOUIS	87	68	93	61	78	1	0.92	0.07	0.90	1.80	69	17.19	98	88	58	3	0	2	1		
MO SPRINGFIELD	83	64	88	58	74	1	1.15	-0.05	0.59	2.11	56	18.78	94	96	62	0	0	2	2		
MT BILLINGS	76	55	81	50	65	0	0.38	-0.07	0.19	0.82	54	4.89	57	83	39	0	0	3	0		
MT BUTTE	71	45	77	34	58	1	0.40	-0.11	0.23	2.97	190	11.11	184	91	35	0	0	4	0		
MT GLASGOW	79	52	84	45	66	0	0.03	-0.47	-	0.66	44	4.10	82	78	26	0	0	0	0		
MT GREAT FALLS	73	48	80	37	61	-2	0.09	-0.46	0.09	2.71	152	7.67	93	80	36	0	0	1	0		
MT KALISPELL	70	47	79	34	58	0	0.36	-0.16	0.17	2.09	129	10.53	128	90	41	0	0	4	0		
MT MILES CITY	82	56	86	50	69	1	0.18	-0.47	0.10	0.69	34	4.23	58	84	25	0	0	3	0		
MT MISSOULA	73	48	80	38	61	0	0.14	-0.27	0.14	1.71	130	9.16	129	87	40	0	0	1	0		
NE GRAND ISLAND	89	61	97	58	75	3	1.87	0.96	1.56	3.42	121	9.64	79	87	44	3	0	3	1		
NE LINCOLN	91	63	98	53	77	4	0.50	-0.40	0.43	0.77	28	8.07	63	86	39	4	0	2	0		
NE NORFOLK	88	61	94	54	74	3	0.70	-0.36	0.57	1.20	38	8.64	70	88	43	2	0	3	1		
NE NORTH PLATTE	88	55	94	48	72	3	0.92	0.14	0.51	2.35	99	5.03	51	93	37	3	0	4	1		
NE OMAHA	90	64	98	57	77	4	1.54	0.66	-	2.04	73	8.29	61	83	38	2	0	3	1		
NE SCOTTSBLUFF	84	54	92	49	69	1	0.19	-0.42	0.08	2.88	152	12.92	156	83	35	2	0	3	0		
NE VALENTINE	84	55	92	49	70	1	0.32	-0.34	0.15	2.38	118	9.03	105	95	43	2	0	6	0		
NV ELY	81	45	88	39	63	3	0.00	-0.19	0.00	1.79	275	5.45	106	82	21	0	0	0	0		
NV LAS VEGAS	99	75	106	63	87	1	0.00	-0.03	0.00	0.00	0	0.24	12	33	15	6	0	0	0		
NV RENO	86	51	90	47	69	3	0.00	-0.11	0.00	1.18	337	5.55	131	73	19	1	0	0	0		
NV WINNEMUCCA	85	49	90	43	67	2	0.06	-0.14	0.06	2.02	316	5.17	115	79	23	1	0	1	0		
NH CONCORD	80	54	93	38	67	2	0.62	-0.12	0.54	0.75	34	14.92	93	87	42	1	0	2	1		
NJ NEWARK	79	62	93	55	70	-3	0.74	0.01	0.74	2.43	110	19.46	95	85	52	1	0	1	1		
NM ALBUQUERQUE	87	58	92	51	73	-2	0.15	0.01	0.15	1.03	286	3.88	138	52	15	4	0	1	0		
NY ALBANY	78	58	94	43	68	0	0.24	-0.61	0.13	0.51	20	11.26	68	92	51	1	0	2	0		
NY BINGHAMTON	75	56	85	44	66	1	0.41	-0.44	0.21	2.05	81	13.59	82	92	63	0	0	3	0		
NY BUFFALO	76	60	83	46	68	1	0.54	-0.29	0.41	1.88	75	18.80	116	90	58	0	0	4	0		
NY ROCHESTER	78	59	86	44	68	3	1.07	0.36	0.55	1.99	93	13.87	100	94	53	0	0	4	1		
NY SYRACUSE	78	58	90	44	68	2	0.53	-0.37	0.23	1.15	44	12.30	75	88	58	1	0	4	0		
NC ASHEVILLE	80	61	83	59	71	0	0.40	-0.72	0.38	3.89	114	27.20	103	98	59	0	0	2	0		
NC CHARLOTTE	87	68	91	64	77	1	0.04	-0.73	0.04	5.15	219	21.65	104	91	53	1	0	1	0		
NC GREENSBORO	85	66	89	59	75	2	0.00	-0.88	0.00	2.86	108	21.72	110	88	49	0	0	0	0		
NC HATTERAS	77	68	82	56	71	-3	0.04	-0.92	0.04	1.62	58	21.45	96	95	73	0	0	2	0		
NC RALEIGH	88	64	92	52	76	1	0.17	-0.68	0.17	3.26	126	19.64	98	94	48	4	0	1	0		
NC WILMINGTON	85	67	89	57	76	0	0.30	-0.87	0.30	2.13	66	18.18	68	96	56	0	0	1	0		
ND BISMARCK	80	50	84	42	65	-1	0.15	-0.49	0.04	0.28	15	6.23	84	93	37	0	0	5	0		
ND DICKINSON	79	52	83	42	66	1	0.10	-0.67	0.06	1.02	44	6.74	82	84	33	0	0	3	0		
ND FARGO	78	55	83	51	66	-1	1.07	0.41	0.63	2.12	108	10.20	121	89	45	0	0	5	1		
ND GRAND FORKS	80	54	86	49	67	2	0.29	-0.39	0.26	0.60	31	5.94	75	90	40	0	0	2	0		
ND JAMESTOWN	76	54	84	50	65	-1	0.94	0.22	0.87	1.84	95	6.52	88	85	39	0	0	3	1		
ND WILLISTON	81	51	86	41	66	0	0.20	-0.34	0.10	0.23	14	2.08	32	82	28	0	0	4	0		
OH AKRON-CANTON	80	59	88	48	70	1	1.78	1.03	1.11	3.39	168	17.01	101	94	60	0	0	4	2		
OH CINCINNATI	81	63	87	48	72	0	3.52	2.64	2.07	6.97	261	26.07	129	95	58	0	0	4	2		
OH CLEVELAND	79	60	90	43	69	1	1.09	0.23	0.59	2.69	105	17.06	104	95	60	1	0	5	1		
OH COLUMBUS	82	62	89	50	72	2	2.36	1.42	1.30	5.55	198	20.58	117	92	52	0	0	4	2		
OH DAYTON	81	62	88	49	72	1	0.48	-0.40	0.48	2.00	74	17.39	98	92	50	0	0	1	0		
OH MANSFIELD	79	60	87	43	70	1	0.48	-0.43	0.39	2.05	74	19.42	107	94	56	0	0	3	0		

Based on 1961-90 normals

Weather Data for the Week Ending June 21, 1997

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP., °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE	01 INCH OR MORE	50 INCH OR MORE
OK TOLEDO	81	60	90	46	71	2	1.04	0.16	0.58	2.79	107	19.64	134	92	46	1	0	4	1		
OK YOUNGSTOWN	79	58	88	42	69	2	1.15	0.22	0.78	3.58	130	14.15	85	94	57	0	0	2	1		
OK OKLAHOMA CITY	88	68	92	63	78	1	0.04	-0.94	0.02	2.38	73	13.67	82	92	53	3	0	1	0		
OK TULSA	88	69	94	59	78	0	1.18	0.18	0.52	2.31	70	13.35	68	90	57	3	0	3	1		
OR ASTORIA	84	53	88	45	58	1	1.43	0.88	0.91	3.08	171	44.84	132	95	68	0	0	6	1		
OR BURNS	77	44	83	35	61	2	0.00	-0.19	0.00	0.25	40	5.80	116	80	25	0	0	0	0		
OR EUGENE	74	48	83	40	61	-1	0.14	-0.18	0.12	0.82	75	21.81	86	94	50	0	0	2	0		
OR MEDFORD	84	53	92	47	69	1	0.00	-0.13	0.00	0.38	80	8.94	99	80	25	2	0	0	0		
OR PENDELTON	78	54	90	46	66	-1	0.12	-0.02	0.12	0.77	157	4.85	78	72	31	1	0	1	0		
OR PORTLAND	72	56	79	49	64	0	0.16	-0.07	0.16	1.84	163	25.07	137	88	50	0	0	1	0		
PA SALEM	74	52	82	44	63	1	0.24	-0.06	0.24	0.95	93	25.52	128	87	46	0	0	1	0		
PA ALLENTOWN	79	56	91	45	68	-3	0.65	-0.20	0.65	2.48	94	15.02	78	89	50	1	0	1	1		
PA ERIE	77	60	87	46	68	1	1.94	0.98	1.42	4.16	144	22.03	129	94	53	0	0	5	1		
PA MIDDLETOWN	83	63	93	55	73	1	0.28	-0.83	0.26	2.41	87	13.90	72	93	59	2	0	1	0		
PA PHILADELPHIA	83	60	94	49	72	-1	0.33	-0.54	0.33	2.17	84	17.78	91	89	50	1	0	1	0		
PA PITTSBURGH	81	60	87	48	70	2	0.91	0.04	0.61	3.88	151	18.16	103	91	53	0	0	3	1		
PA SCRANTON	78	57	89	44	67	-1	0.43	-0.51	0.23	1.78	64	10.96	68	95	64	0	0	2	0		
PA WILLIAMSPORT	80	59	91	45	69	1	0.49	-0.53	0.38	2.43	80	11.75	63	94	56	1	0	3	0		
RI PROVIDENCE	79	59	90	48	69	1	0.24	-0.53	0.20	0.95	40	17.89	81	91	45	1	0	2	0		
SC BEAUFORT	87	70	91	65	79	0	1.97	0.50	1.06	4.59	110	19.21	87	99	64	2	0	4	2		
SC CHARLESTON	87	70	91	62	78	0	2.05	0.50	1.28	8.51	195	23.83	108	98	82	2	0	4	2		
SC COLUMBIA	88	69	92	66	79	1	0.44	-0.71	0.39	3.48	107	19.51	83	94	50	3	0	3	0		
SC GREENVILLE	84	65	89	62	75	-1	0.82	-0.31	0.81	4.32	129	25.33	99	91	57	0	0	2	1		
SD ABERDEEN	79	56	83	52	67	0	0.30	-0.50	0.16	1.67	71	7.19	77	90	42	0	0	4	0		
SD HURON	83	58	85	52	70	2	0.34	-0.46	0.13	1.59	67	7.57	75	86	39	0	0	4	0		
SD RAPID CITY	78	53	81	51	66	0	0.46	-0.26	0.31	2.99	136	13.83	169	88	48	0	0	5	0		
SD SIOUX FALLS	82	57	88	51	70	1	0.48	-0.32	0.43	0.72	30	8.75	81	85	46	0	0	3	0		
TN BRISTOL	82	61	87	55	72	0	0.44	-0.38	0.26	2.87	119	25.41	127	99	57	0	0	4	0		
TN CHATTANOOGA	83	65	88	61	74	-2	1.28	0.47	0.83	4.82	192	31.19	116	97	62	0	0	4	1		
TN KNOXVILLE	83	65	87	62	74	0	0.53	-0.39	0.31	4.78	174	31.62	132	92	60	0	0	2	0		
TN MEMPHIS	86	70	89	65	78	-2	2.31	1.51	1.74	4.04	158	44.23	167	93	59	0	0	3	2		
TN NASHVILLE	83	66	88	59	74	-2	1.30	0.50	0.83	5.67	223	29.78	124	92	62	0	0	4	2		
TN ABILENE	90	67	94	59	78	-3	0.87	0.21	0.86	4.46	215	13.50	129	91	43	4	0	2	1		
TN AMARILLO	87	60	95	54	74	-1	0.54	-0.34	0.54	2.75	105	12.48	153	82	36	2	0	1	1		
TN AUSTIN	89	72	93	68	80	-1	3.10	2.27	2.83	8.35	298	27.59	174	94	53	3	0	3	1		
TN BEAUMONT	88	74	91	71	81	0	0.92	-0.38	0.90	2.71	68	24.98	102	97	70	2	0	2	1		
TN BROWNSVILLE	93	79	95	75	86	3	0.08	-0.54	0.03	0.29	15	14.11	146	92	80	7	0	1	0		
TN CORPUS CHRISTI	92	76	96	71	84	2	0.66	-0.12	0.64	2.25	91	18.12	150	96	63	7	0	3	1		
TN DEL RIO	91	70	96	67	81	-3	1.37	0.87	0.80	3.18	213	16.41	212	94	54	3	0	4	2		
TN EL PASO	92	68	100	58	79	-2	0.27	0.10	0.27	1.11	285	3.41	171	54	20	6	0	1	0		
TN FORT WORTH	90	70	93	66	80	1	1.32	0.60	1.10	1.58	63	22.13	118	98	59	6	0	3	1		
TN GALVESTON	86	78	89	71	82	0	1.06	0.01	0.99	1.44	46	28.77	171	92	79	0	0	3	1		
TN HOUSTON	89	71	92	68	80	-1	2.50	1.35	1.48	2.80	78	33.28	157	95	64	4	0	3	2		
TN LUBBOCK	89	63	99	55	78	-2	0.25	-0.40	0.25	2.90	149	12.98	181	77	27	3	0	1	0		
TN MIDLAND	94	63	101	55	79	-1	0.56	0.26	0.56	2.68	263	7.61	139	81	24	7	0	1	1		
TN SAN ANGELO	90	65	94	59	77	-3	0.09	-0.43	0.09	2.24	126	14.96	162	91	41	5	0	1	0		
TN SAN ANTONIO	90	73	95	66	81	-1	3.10	2.23	2.87	4.47	159	18.29	125	93	58	5	0	4	1		
TN VICTORIA	90	74	93	71	82	0	2.77	1.82	1.74	4.34	123	42.17	261	96	68	5	0	3	2		
TN WACO	90	71	93	64	81	-2	0.37	-0.36	0.35	3.50	142	26.57	163	95	55	5	0	3	0		
UT WICHITA FALLS	91	68	96	62	80	-2	0.27	-0.54	0.27	1.43	54	13.03	90	91	44	6	0	1	0		
VT SALT LAKE CITY	85	59	93	50	72	2	1.17	-0.03	0.17	1.72	246	10.58	119	78	28	2	0	1	0		
VT BURLINGTON	77	56	89	42	67	1	0.01	0.19	0.44	1.47	61	10.89	77	88	47	0	0	5	0		
VA LYNCHBURG	85	61	91	53	73	1	0.09	-0.71	0.08	2.83	117	18.41	98	97	47	1	0	2	0		
VA NORFOLK	86	65	96	58	75	1	0.04	-0.85	0.04	0.89	34	12.74	82	96	51	3	0	1	0		
VA RICHMOND	87	63	94	54	75	0	0.02	-0.82	0.01	1.91	78	15.81	82	92	49	3	0	2	0		
VA ROANOKE	84	64	88	57	74	2	2.40	1.68	1.16	4.51	202	16.77	90	91	54	0	0	4	2		
VA WASH/DULLES	85	62	92	54	73	2	1.03	0.12	1.02	1.91	68	15.40	83	94	51	1	0	2	1		
WA HANFORD	83	58	92	49	70	-	0.00	-0.05	0.00	0.34	126	3.46	113	55	25	1	0	0	0		
WA OLYMPIA	67	50	75	41	59	-1	1.30	0.93	0.67	2.32	190	36.06	142	96	62	0	0	4	1		
WA QUILLAYUTE	62	51	66	43	56	1	4.57	3.89	2.43	6.51	281	71.63	133	98	75	0	0	6	3		
WA SEATTLE-TACOMA	65	54	71	51	60	-2	0.88	0.53	0.44	1.16	105	25.57	142	94	66	0	0	6	0		
WA SPOKANE	73	51	82	43	62	-1	0.04	-0.25	0.04	0.63	67	10.94	129	83	35	0	0	1	0		
WA YAKIMA	78	50	92	40	64	-1	0.13	0.48	-	0.61	152	3.08	77	78	29	1	0	0	0		
WV BECKLEY	80	60	84	58	70	3	0.81	-0.08	0.83	2.27	87	19.51	101	95	58	0	0	4	1		
WV CHARLESTON	84	63	89	57	74	1	0.79	-0.04	0.73	2.96	122	20.91	109	97	50	0	0	3	1		
WV ELKINS	81	56	85	52	68	3	0.58	-0.47	0.29	1.84	59	21.18	101	99	50	0	0	5	0		
WV HUNTINGTON	82	63	88	54	73	2	0.50	-0.28	0.43	2.49	107	19.10	97	94	61	0	0	2	0		
WI EAU CLAIRE	77	58	85	47	67	0	2.07	1.08	0.88	2.84	89	9.35	72	93	48	0	0	6	2		
WI GREEN BAY	72	51	81	41	62	-3	2.61	1.81	1.51	4.34	183	13.11	111	96	64	0	0	4	2		
WI MADISON	79	58	84	49	68	0	2.45	1.57	1.38	2.94	114	12.19	91	93	57	0	0	3	2		
WI MILWAUKEE	75	52	86	48	64	-2	6.28	5.51	4.24	6.61	296	15.28	107	92	64	0	0	4	3		
WY CASPER	79	48	87	40	63	0	0.20	-0.13	0.16	1.24	116	6.01	88	92	35	0	0	4	0		
WY CHEYENNE	75	52	85	45	64	1	1.98	1.51	1.11	3.47	234	8.79	125	79	40	0	0	5	1		
WY LANDER	77	51	84	47	64	0	0.10	-0.22	0.08	1.59	143	6.15	80	75	28	0	0	2	0		
WY SHERIDAN	76	49	79	42	62	-1	0.07	-0.45	0.07	1.68	99	7.15	88	94	50	0	0	1	0		

Based on 1961-90 normals

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 16 - 22, 1997

HIGHLIGHTS

Above-normal temperatures brought an end to the 10-week cool spell that slowed crop development and hindered planting activities in the Eastern United States. The much-needed high temperatures helped crops develop rapidly. Early-week storms brought rain and halted fieldwork in the Southeast. Severe thunderstorms caused local crop damage in many Central and Eastern States. Above-normal

precipitation, combined with the melting of record mountain snowpack, damaged crops in areas of Idaho and Montana. Widespread showers provided relief to crops in the northern Plains. Favorable weather in the Southwest promoted crop growth and small grain harvest. A mid-week heat wave in the central Plains aided winter wheat development and harvest.

Winter wheat: The Nation's winter wheat crop was nearly headed and harvest reached 14 percent (%) complete. This was well behind both the 27% harvested at this time in 1996 and the 5-year average of 22%. Harvest started in Kansas but progressed behind the normal pace, with only 5% of the crop harvested. Farmers in Kansas reported favorable test weights and yields. In Oklahoma, harvest accelerated by mid-week as hot winds dried fields. Early-week rains kept combines out of fields in Texas, but harvest operations resumed later in the week. Nationwide, condition of the winter wheat crop was mostly good.

Corn: Warmer weather boosted corn growth throughout the major corn-producing States. Average height of the corn acreage varied widely between early and late-planted fields. Two percent of the acreage was silking, compared to 3% for both last year and the average. Corn replanting continued as weather allowed in the Ohio and Tennessee Valleys. Farmers took advantage of drier weather elsewhere to apply fertilizer and pesticides to fields. In Iowa, spotty rains helped some areas, but missed others. Overall, the corn crop remained in mostly good condition.

Soybeans: Soybean planting reached 92% complete, ahead of 82% planted last year and the average of 89%. Planting in Tennessee and Kentucky remained well behind normal due to wet fields. Planting in other States was winding down as mostly second crop soybeans remained to be planted. Replanting continued in flooded areas of the Ohio and Tennessee Valleys. In Iowa, soybeans on dry ground showed uneven stands, particularly on no-till fields. Farmers in Louisiana reported they may be unable to plant late varieties due to excessive soil moisture. Nationwide, soybeans rated in mostly good condition.

Cotton: Cotton planting was winding down in Texas. Cotton squaring reached 31% complete, behind both 50%

in 1996 and the average of 41%. California cotton fields were squaring well ahead of normal. On the other hand, squaring was generally well behind normal in the Southeast. Condition declined significantly in Mississippi, Missouri, and Texas. Growers reported light to moderate boll weevil infestations in Louisiana.

Rice: Rice was just starting to head in Louisiana and Texas. Overall, heading progress was behind normal. In Louisiana, occurrence of sheath blight increased with almost daily rains. Crop condition in Arkansas improved despite early-week storms that produced over 5 inches of rain and flooding in some areas.

Other Small Grains: Spring wheat and barley heading was ahead of the normal pace in Idaho, but behind normal in the other major spring wheat and barley-producing States. Above-normal precipitation in Idaho helped improve condition of the spring wheat and barley crops in Idaho. Oats advanced to 22% headed, compared with 15% headed in 1996 and the average of 28%. Lack of precipitation contributed to oat condition declines in Minnesota, Nebraska, and South Dakota.

Other Crops: Early-week rains slowed peanut planting in Texas, but planting resumed with drier weather later in the week. Peanut planting reached 96% complete in the eight major peanut-producing States, ahead of 92% for both 1996 and the average. Peanuts pegging advanced to 11% complete, ahead of last year but behind the normal pace. Overall, the peanut crop remained in mostly good condition. Sorghum planting was winding down and was 92% complete, ahead of the 90% planted in 1996 and the average of 87%. Drier weather in Colorado, Oklahoma, and South Dakota allowed farmers to make good planting progress.

Crop Progress and Condition

Week Ending June 22, 1997

Winter Wheat Percent Headed				
	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CA	99	99	99	99
CO	100	99	100	96
GA	100	100	100	100
ID	79	53	72	70
IL	97	95	97	99
IN	100	96	100	100
KS	100	100	100	100
MI	83	38	84	90
MO	100	100	100	100
MT	73	47	34	54
NE	99	94	99	99
NC	100	100	100	100
OH	99	86	99	100
OK	100	100	100	100
OR	100	98	97	98
SD	79	56	58	83
TX	100	100	100	100
WA	97	80	93	97
ALL	97	92	94	96

These 19 States produced 92% of the 1996 winter wheat crop.

Soybeans Percent Planted				
	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
AL	71	66	84	83
AR	76	72	82	80
GA	83	76	85	82
IL	97	95	74	90
IN	96	93	62	90
IA	100	100	95	94
KS	98	95	88	81
KY	44	38	50	66
LA	90	84	96	91
MI	100	95	78	95
MN	99	99	99	95
MS	86	83	98	89
MO	84	78	72	77
NE	100	100	98	98
NC	68	55	71	72
OH	95	88	78	93
SC	80	63	77	72
SD	98	89	93	88
TN	49	41	58	71
ALL	92	89	82	89

These 19 States produced 94% of the 1996 soybean crop.

Cotton Percent Squaring				
	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
AL	22	14	69	52
AZ	81	76	79	80
AR	21	3	81	56
CA	55	45	44	33
GA	42	26	64	57
LA	38	18	81	73
MS	32	7	88	70
MO	10	3	53	33
NM	28	5	45	34
NC	19	5	24	20
OK	5	0	24	11
SC	42	11	36	30
TN	11	1	48	41
TX	28	16	31	27
ALL	31	17	50	41

These 14 States produced 99% of the 1996 cotton crop.

Winter Wheat Percent Harvested				
	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
AR	37	10	67	65
CA	70	45	52	45
CO	0	0	0	1
GA	86	79	88	87
ID	0	0	0	0
IL	0	0	3	7
IN	3	0	0	4
KS	5	0	18	16
MI	0	0	0	0
MO	7	1	12	15
MT	0	0	0	0
NE	0	0	0	1
NC	60	24	46	48
OH	0	0	0	0
OK	40	7	84	59
OR	0	0	0	0
SD	0	0	0	0
TX	42	26	74	56
WA	0	0	0	0
ALL	14	5	27	22

These 19 States produced 92% of the 1996 winter wheat crop.

Corn Percent Silking				
	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
CO	0	NA	0	0
GA	79	NA	73	78
IL	0	NA	0	0
IN	0	NA	0	0
IA	0	NA	0	0
KS	1	NA	0	1
KY	0	NA	0	0
MI	0	NA	0	0
MN	0	NA	0	0
MO	0	NA	3	1
NE	0	NA	0	0
NC	10	NA	15	17
OH	0	NA	0	0
PA	0	NA	0	0
SD	0	NA	0	0
TX	38	NA	55	54
WI	0	NA	0	0
ALL	2	NA	3	3

These 17 States produced 90% of the 1996 corn crop.

Sorghum Percent Planted				
	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	99
CO	85	65	91	84
IL	79	77	54	78
KS	90	85	92	82
LA	100	98	100	99
MS	100	99	100	100
MO	94	86	89	88
NE	100	99	98	96
NM	96	90	49	73
OK	84	40	75	81
SD	86	65	86	83
TX	93	86	90	91
ALL	92	85	90	87

These 12 States produced 99% of the 1996 sorghum crop.

Spring Wheat Percent Headed				
	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
ID	33	NA	21	26
MN	4	NA	6	20
MT	4	NA	0	10
ND	3	NA	0	10
SD	18	NA	7	33
ALL	6	NA	2	15

These 5 States produced 96% of the 1996 spring wheat crop.

Crop Progress and Condition

Week Ending June 22, 1997

Peanuts Percent Planted

	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
AL	100	100	100	100
FL	100	100	100	NA
GA	100	100	100	100
NC	100	100	100	100
OK	98	88	97	90
SC	100	100	100	100
TX	79	65	91	68
VA	100	100	100	100
ALL	96	92	98	92

These 8 States produced 99% of the 1996 peanut crop.

Peanuts Percent Pegging

	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
AL	14	5	25	17
FL	29	19	61	NA
GA	16	11	31	29
NC	0	0	4	NA
OK	12	0	19	7
SC	0	0	0	0
TX	2	1	7	NA
VA	5	0	0	NA
ALL	11	6	22	24

These 8 States produced 99% of the 1996 peanut crop.

Oats Percent Headed

	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
IA	56	17	27	54
MI	8	2	10	25
MN	12	1	11	31
NE	62	22	64	NA
ND	2	0	0	8
OH	37	24	22	48
PA	50	20	45	27
SD	12	3	4	35
WI	16	2	9	23
ALL	22	7	15	28

These 9 States produced 56% of the 1996 oat crop.

Barley Percent Headed

	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
ID	34	NA	16	25
MN	3	NA	11	22
MT	10	NA	1	11
ND	2	NA	1	11
SD	9	NA	5	33
WA	71	NA	51	73
ALL	13	NA	8	19

These 6 States produced 82% of the 1996 barley crop.

Rice Percent Headed

	Jun 22 1997	Prev Week	Prev Year	5-Yr Avg
AR	0	NA	0	0
CA	0	NA	0	0
LA	6	NA	6	14
MS	0	NA	1	1
TX	1	NA	8	10
ALL	1	NA	2	4

These 5 States produced 96% of the 1996 rice crop.

Rice Crop Condition by Percent

	VP	P	F	G	EX
AR	0	4	28	50	18
CA	0	0	20	75	5
LA	0	4	40	47	9
MS	0	3	36	58	3
TX	0	6	31	55	8
ALL	0	3	30	55	12
Prev Wk	0	4	32	54	10
Prev Yr	0	2	18	61	19

Spring Wheat Crop Condition by Percent

	VP	P	F	G	EX
ID	0	2	3	63	32
MN	2	4	40	44	10
MT	2	11	36	41	10
ND	3	16	36	42	3
SD	0	5	24	55	16
ALL	2	12	34	44	8
Prev Wk	2	11	28	49	10
Prev Yr	0	3	23	63	11

Winter Wheat Crop Condition by Percent

	VP	P	F	G	EX
AR	3	11	35	40	11
CA	0	0	10	70	20
CO	3	7	22	54	14
GA	4	19	35	38	4
ID	0	2	20	50	28
IL	2	6	28	55	9
IN	1	5	29	52	13
KS	3	6	23	54	14
MI	2	7	29	44	18
MO	1	8	30	51	10
MT	1	6	27	56	10
NE	1	12	38	47	2
NC	0	4	22	65	9
OH	2	7	28	50	13
OK	2	9	27	58	4
OR	0	1	8	61	30
SD	7	15	38	36	4
TX	2	12	36	42	8
WA	0	0	10	65	25
ALL	2	8	27	52	11
Prev Wk	3	9	27	51	10
Prev Yr	15	22	30	26	7

Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	0	8	51	36	5
AR	0	8	29	55	8
GA	0	4	21	70	5
IL	2	6	25	57	10
IN	3	8	34	47	8
IA	0	5	27	59	9
KS	0	1	13	74	12
KY	4	10	46	35	5
LA	0	12	29	53	6
MI	2	9	45	36	8
MN	5	11	36	43	5
MS	7	13	25	50	5
MO	1	9	30	53	7
NE	0	3	29	59	9
NC	0	3	22	74	1
OH	2	10	35	42	11
SC	0	0	11	83	6
SD	2	7	28	48	15
TN	0	5	35	51	9
ALL	2	7	30	53	8
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	NA	NA	NA	NA	NA

Crop Progress and Condition

Week Ending June 22, 1997

Corn Crop Condition by Percent

	VP	P	F	G	EX
CO	0	1	15	68	16
GA	0	1	20	65	14
IL	2	3	19	60	16
IN	3	9	34	47	7
IA	0	5	27	56	12
KS	0	1	13	63	23
KY	4	30	37	24	5
MI	4	10	42	35	9
MN	3	10	38	44	5
MO	0	4	25	61	10
NE	0	2	25	59	14
NC	1	3	38	56	2
OH	2	8	31	47	12
PA	0	7	27	55	11
SD	1	6	17	58	18
TX	1	3	12	51	33
WI	1	5	22	60	12
ALL	1	6	26	54	13
Prev Wk	1	5	28	54	12
Prev Yr	2	8	30	50	10

Cotton Crop Condition by Percent

	VP	P	F	G	EX
AL	29	9	38	21	3
AZ	1	3	11	53	32
AR	0	8	58	33	1
CA	0	0	0	70	30
GA	0	5	31	56	8
LA	0	7	41	49	3
MS	7	18	44	26	5
MO	2	6	42	50	0
NM	0	7	32	49	12
NC	1	12	42	43	2
OK	0	4	36	53	7
SC	0	6	31	59	4
TN	5	16	38	38	3
TX	6	13	29	43	9
ALL	4	10	32	45	9
Prev Wk	2	9	29	50	10
Prev Yr	5	13	23	45	14

Oats Crop Condition by Percent

	VP	P	F	G	EX
IA	0	5	30	55	10
MI	3	8	36	41	12
MN	12	11	38	35	4
NE	0	6	37	55	2
ND	7	26	38	28	1
OH	1	10	30	51	8
PA	0	6	28	63	3
SD	1	11	18	59	11
WI	0	2	21	65	12
ALL	3	11	30	49	7
Prev Wk	1	7	30	52	10
Prev Yr	1	4	27	59	9

Peanuts Crop Condition by Percent

	VP	P	F	G	EX
AL	0	4	44	45	7
FL	0	0	18	68	14
GA	0	2	20	69	9
NC	0	0	9	87	4
OK	0	1	37	57	5
SC	0	0	18	73	9
TX	0	11	33	44	12
VA	0	0	35	50	15
ALL	0	4	27	60	9
Prev Wk	0	3	29	59	9
Prev Yr	0	5	27	59	9

Barley Crop Condition by Percent

	VP	P	F	G	EX
ID	0	0	7	65	28
MN	1	3	40	46	10
MT	1	4	28	53	14
ND	2	13	32	48	5
SD	0	3	11	70	16
WA	0	0	14	72	14
ALL	1	7	27	54	11
Prev Wk	1	6	25	54	14
Prev Yr	0	4	22	59	15

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

National crop conditions for selected States are weighted based on 1996 planted acres.

State Agricultural Summaries

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

ALABAMA: Days suitable for fieldwork 2.7. Topsoil 2% short, 52% adequate, 46% surplus. Corn silked 41%, 50% 1996, 46% avg.; 1% very poor, 3% poor, 23% fair, 62% good, 11% excellent. Wheat harvested 52%, 72% 1996, 65% avg.; 1% very poor, 7% poor, 65% fair, 24% good, 3% excellent. Livestock 2% poor, 9% fair, 70% good, 19% excellent. Rainy weather limited crop growth.

ALASKA: Days suitable for fieldwork 6. Topsoil 35% short, 65% adequate. Subsoil 40% short, 60% adequate. Crop growth 10% slow, 40% moderate, 50% rapid. Small grain height 8.5 inches. Barley development 100% preboot. Condition of barley 5% fair, 85% good, 10% excellent. Potato height 4 inches, compared to 2 inches in 1996. Potato emergence 90% complete, compared to 45% 1996. Pasture feed 35% poor, 30% fair, 35% good.

ARIZONA: Warm days, cool nights, low humidity helped push cotton development. Small grains 87% harvested, 93% 1996, 85% avg. Alfalfa harvest activity 30% moderate, 60% active, 10% not being harvested; 9% fair, 50% good, 41% excellent. Central, western growers are cutting, shipping cantaloupe, watermelon, honeydew, specialty melons. Potatoes continued to be dug in the central area. Central area growers were also harvesting sweet corn, carrots. Dry onion harvest was nearly complete in the west, gaining in east. Citrus harvest is nearly complete for another season with only a few Valencia oranges, grapefruit being picked. Grapes were being harvested in the western, central areas.

ARKANSAS: Days suitable for fieldwork 4. Stormy conditions first part of week produce over 5 inches of rain over the southwest, causing flooding. Most of State had rainfall. Generally dry conditions rest of the week with a few isolated showers. Hot, humid middle to end of the week. Soil moisture 15% short, 55% adequate, 30% surplus. Main farming activities: Harvest of hay; soybean planting; rice fertilizing, flooding, herbicide application; wheat, oat harvest; cotton weed control. Other farm activity included: Cattle treated for external parasites; Bermuda grass sprigging; corn irrigation; tomato harvest.

CALIFORNIA: Field activities made good progress under favorable weather conditions in most areas. Grain harvests of wheat, barley and oats were active in the San Joaquin and Sacramento valleys. Desert area wheat harvest was rapidly winding down. Small grain stubble fields were immediately disced, prepared for second crop plantings. Rice was sprayed for broadleaf weeds, grasses, shrimp in the Sacramento, San Joaquin valleys. Late plantings of second crop corn were ongoing in central, southern counties. Cotton was cultivated, irrigated, treated for aphids, lygus, mites, weeds. Growth, development were excellent in most areas, with some fields three weeks ahead of normal progress. Safflower, seed alfalfa were in full bloom; some fields were sprayed for aphids, lygus. Sugar beets were treated for mildew in the Sacramento Valley. Black eye beans were growing well in the San Joaquin Valley. Clover was sprayed for lygus, leafhoppers. Alfalfa, oats, sudan grass were cut for hay or green chopped. Almonds were treated for mites. Some almond hull splitting was observed in the southern San Joaquin Valley. Vineyards were treated for mites, worms, leaf hoppers. Table grape harvest began in Fresno County. Wine grapes were two to three weeks ahead of schedule in the north coastal area. Harvesting of apricots, nectarines, plums, figs was ongoing. Peach picking was underway. Walnuts were treated for codling moth and scale. Valencia oranges and lemons were harvested, packed. Some areas observed an increase in red scale. New crop oranges were developing normally. Lettuce, broccoli, cauliflower harvests continued along the central coast. Bell pepper harvesting began in Merced County, continued in the desert valleys. Bell peppers, processing tomatoes were treated to control worms, mildew, aphids. Garlic was harvested in San Benito County. Imperial County sweet corn was harvested. Sweet corn

growers in the San Joaquin Valley continued to fertilize, irrigate, spray for worms. Cantaloups, honeydews, watermelons were harvested in the Imperial, San Joaquin valleys. Green bean harvest was complete in Merced County. Carrot harvest in Kern County progressed, while the harvest in Imperial County was complete. Merced County sweet potatoes were harvested. Onions were harvested in Kern, San Joaquin counties. Tulelake-Butte Valley area onions were damaged by hail, rain. Potatoes were harvested in Kern County. Pastures, rangeland in the northern part of the state remained in good condition, with plenty of feed, water available. However, forage on lower slopes was drying quickly in the hot weather. In the central portion of the State, rangeland, native pastures were in fair to poor condition, with better grazing at higher elevations. Dry vegetation on lower slopes increased the fire hazard. Southern ranges, pastures were very dry, with supplemental feeding necessary in non-irrigated areas. Sheep, cattle were in excellent, with most range cattle on upper elevation pastures.

COLORADO: Days suitable for fieldwork 5.5. Topsoil 7% very short, 20% short, 70% adequate, 3% surplus. Subsoil 7% very short, 25% short, 66% adequate, 2% surplus. Spring barley 79% headed, 75% 1996, 37% avg.; 11% turning color, 36% 1996, 8% avg.; 1% very poor, 3% poor, 8% fair, 78% good, 10% excellent. Oats 57% headed, 44% 1996, 36% avg.; 1% poor, 16% fair, 72% good, 11% excellent. Spring wheat 35% headed, 36% 1996, 29% avg.; 3% poor, 12% fair, 66% good, 19% excellent. Sorghum 58% emerged, 76% 1996, 64% avg.; 25% fair, 72% good, 3% excellent. Summer potatoes 4% poor, 4% fair, 74% good, 18% excellent. Dry onion 10% fair, 72% good, 18% excellent. Sugar beets 82% thinned, 91% 1996, 80% avg.; 1% poor, 9% fair, 77% good, 13% excellent. Fall potatoes 90% emerged, 90% 1996, 82% avg. Dry beans 96% planted, 97% 1996, 82% avg.; 72% emerged, 90% 1996, 62% avg. Alfalfa 64% 1st cutting, 73% 1996, 51% avg.; 1% very poor, 4% poor, 16% fair, 62% good, 17% excellent. Winter wheat 100% headed, 100% 1996, 96% avg.; 35% turning color, 58% 1996, 48% avg. Livestock mostly in good to fair condition.

DELAWARE: Days suitable for fieldwork 6.0. Topsoil 1% very short, 27% short, 72% adequate. Subsoil 11% short, 89% adequate. Winter wheat 3% poor, 20% fair, 73% good, 4% excellent; 80% turned, 87% 1996, 80% avg. Barley 5% poor, 22% fair, 64% good, 9% excellent; 69% harvested, 46% 1996, 58% avg. Corn 98% planted, 100% 1996, 100% avg. Soybeans 52% planted, 50% 1996, 63% avg. Sorghum 68% planted, 57% 1996, 86% avg. Tomatoes 74% planted, 88% 1996, 97% avg. Cucumbers 51% planted, 54% 1996, 72% avg.; 4% harvested, 2% 1996, 1% avg. Snap beans 40% planted, 41% 1996, 72% avg. Sweet corn 84% planted, 95% 1996, 97% avg. Lima beans 33% planted, 23% 1996, 44% avg. Green peas 53% harvested, 66% 1996, 64% avg. Strawberries 84% harvested, 92% 1996, 96% avg. Apples 4% fair, 91% good, 5% excellent. Peaches 6% fair, 94% good. Hay supplies 13% short, 87% adequate. Clover and other hays 94% 1st cutting harvested, 90% 1996, 98% avg.; 30% 2nd cutting harvested, 5% 1996, 8% avg. Alfalfa 93% 1st cutting harvested, 92% 1996, 98% avg.; 35% 2nd cutting harvested, 3% 1996, 17% avg. Activities: Reports of much-needed rainfall on 22nd, winding up of corn planting, hay harvest in full swing.

FLORIDA: Topsoil adequate to surplus throughout State, scattered areas of short moisture. All peanuts planted 29% pegged. Soybean planting winding down. Sugarcane growth normal. Tobacco having blue mold problems. Tobacco harvest started. Cotton growth increased with warmer temperatures. Peanut fair 18%, good 68%, excellent 14%. Hot temperatures coupled with increasing supplies of vegetables from northern States bringing commercial harvesting to end. Vegetable picking for local sales continues. Major vegetables shipped: Watermelons, sweet corn, potatoes, peppers, eggplant, cucumbers, squash. Most groves good

condition. Moisture adequate, abundant new growth. New crop fruit progressing well. Valencia, seedless grapefruit harvest slowing. Many fresh packing houses closed. Processing plants not taking very many grapefruit. Caretakers cutting cover crops, fertilizing, spraying, herbiciding. Good rains fell west, north. Central: bahia grass pastures reported at peak quality. Southeast: all pasture in good condition as rainy season started. West Central: pastures received some very much needed rain, pasture growth up a little. Some pastures still having problems due to mole cricket damage caused back in winter. Southern part of Peninsula: heavy rains left some pastures with standing water. Pasture feed fair 40%, good 50%, excellent 10%. Condition of cattle herds fair 35%, good 55%, excellent 10%.

GEORGIA: Days suitable for fieldwork 3.8. Soil moisture 4% short, 67% adequate, 29% surplus. Corn 26% dough, 19% 1996, 35% avg.; 2% dent, 1% 1996, 9% avg. Cotton 2% setting bolls, 4% 1996, 5% avg. Hay 6% poor, 32% fair, 55% good, 7% excellent. Peanuts 59% blooming, 73% 1996, 71% avg. Sorghum 3% poor, 20% fair, 73% good, 4% excellent; 78% planted, 87% 1996, 87% avg. Soybeans 1% blooming, 3% 1996, 3% avg. Tobacco 7% poor, 37% fair, 53% good, 3% excellent; 9% harvested, 4% 1996, 5% avg. Watermelons 3% very poor, 11% poor, 39% fair, 39% good, 8% excellent; 9% harvested, 16% 1996, 15% avg. Apples 2% poor, 77% fair, 13% good, 8% excellent. Peaches 1% poor, 35% fair, 59% good, 5% excellent; 58% harvested, 58% 1996, 55% avg. Pecans 3% poor, 28% fair, 59% good, 10% excellent. Fields wet north, beneficial rains throughout most of south. Hay fields in north too wet to cut. Field work also slowed by weather conditions in major row crop areas. Warmer temperatures helping crop development. Activities included: Mowing pastures, weed control in row crops, spraying for diseases, cotton scouting, harvesting vegetables.

HAWAII: Gusty winds hampered farming in some areas. Moderate showers in windward areas produced muddy fields, limiting harvesting and delaying some planting. Overall conditions fair to good. Papaya production light, increase in some areas. Watermelon in good condition with heavy production. Sweet corn steady, heavy. Slow market some areas. Head cabbage market improved, harvesting up.

IDAHO: Days suitable for fieldwork 5.7. Topsoil 17% surplus, 77% adequate, 6% short. Severe thunderstorms, flooding continue to cause crop damage throughout State. Spring wheat jointed 92%, booting 68%. Barley jointed 87%, booting 61%. Winter wheat booting 99%. Potatoes emerged 93%, 91% 1996, 89% avg.; 12 inches high 41%, 26% 1996, 28% avg. Potato 29% excellent, 58% good, 13% fair. Alfalfa hay harvested (1st cutting) 61%, 60% 1996, 65% avg. Dry beans planted 99%, 95% 1996, 95% avg.; emerged 92%, 79% 1996, 78% avg. Cherries harvested 7%, 4% 1996, 17% avg.

ILLINOIS: Days suitable for fieldwork 3.9. Topsoil 10% short, 61% adequate, 29% surplus. Crops developed rapidly under last week's hot weather. By June 22, the average height of corn was reported at 20 inches but there is extreme variation between the earliest, the latest planted. Rains were widespread across the State last week with some of the heaviest totals reported in the already water logged areas in the south. Some farmers in the southeast District have been replanting flooded out areas while others have yet to finish planting soybeans. This moisture, humidity continues to concern wheat growers about possible disease problems in their slowly maturing crop. Farmers were preparing for wheat harvest, reports are that harvest will begin in the next week. Haying has improved this past week with the warmer weather, many operators were finishing the 1st cutting of alfalfa, harvesting other hay. Other activities last week included spraying herbicides, cultivating corn, mowing weeds, grass waterways. Corn height 20 in., 15 in. 1996, 18 in. avg. Wheat filled 92%, 89% 1996, 96% avg.; turning yellow 62%, 63% 1996, 84% avg.; ripe 3%, 13% 1996, 30% avg. Oats headed 65%, 35% 1996, 66% avg.; filled 15%, 11% 1996, 31% avg.; turning yellow less than 1%, 1% 1996, 5% avg.; ripe less than 1% 0% 1996, 1% avg. Oats 1% poor, 18% fair, 66% good, 15% excellent. Alfalfa hay first cutting 91%, 64% 1996, 88% avg.; 2nd cutting 4%, 3% 1996 8% avg. Alfalfa hay 1% very poor, 3% poor, 23% fair, 63% good, 10% excellent. Red clover hay cutting 61%, 62% 1996, 79% avg.; 2% very poor, 3% poor, 22% fair, 62% good, 11% excellent. Soybeans blooming 1% poor, 0% 1996, 1% avg.

INDIANA: Days suitable for fieldwork 3.1. Topsoil 1% short, 51% adequate, 48% surplus. Subsoil 54% adequate, 46% surplus. Corn, soybean replanting continues as weather allows. Greatest need for replanting is in the southern region of the State, particularly along the Ohio, Wabash Rivers. Range, pasture feed 1% very poor, 4% poor, 19% fair, 62% good, 14% excellent. 1st cutting of alfalfa 58% complete. Transplanting of tobacco 51% complete. Activities: Scouting fields, soybean planting, replanting, corn replanting, cutting hay, applying herbicide, applying nitrogen to corn, harvesting wheat, caring for livestock.

IOWA: Days suitable for fieldwork 5.9. Topsoil very short 8%, short 34%, adequate 56%, surplus 2%. Subsoil very short 1%, short 19%, adequate 78%, surplus 2%. Spotty rains have helped some areas, missed others. Reports of severe weather damage in localized areas also experienced. Corn is growing fast with warm weather. Soybean fields on dry ground are showing uneven stands, particularly on no-till. Alfalfa hay 1st harvest 83%, 52% 1996, 69% avg. Clover hay 1st harvest 42%, 14% 1996, 42% avg. Corn cultivated 1st time 52%, 23% 1996, 47% avg. Oats headed 56%, 27% 1996, 54% avg. Height of tallest corn is 24" while average height is 17". Winter wheat headed approx. 90%; harvested 0%, 15% 1996, 7% avg. Corn 5% poor, 27% fair, 56% good, 12% excellent. Soybean 5% poor, 27% fair, 59% good, 9% excellent. Hay 2% very poor, 15% poor, 38% fair, 40% good, 5% excellent. Oats 1% very poor, 6% poor, 35% fair, 48% good, 10% excellent. Pasture feed 1% very poor, 13% poor, 35% fair, 43% good, 8% excellent. Winter wheat 3% very poor, 6% poor, 25% fair, 59% good, 7% excellent. Livestock are reported in good condition, although recent hot, humid weather is beginning to cause stress. Flies are beginning to affect cattle.

KANSAS: Days suitable for fieldwork 5.0. Topsoil 3% very short, 17% short, 71% adequate, and 9% surplus. Subsoil 1% very short, 16% short, 77% adequate, 6% surplus. Wheat turning 95%, 95% 1996, 94% avg. Test cutting, harvesting wheat. Favorable test weight, yields being reported. Wheat ripe 36%, 42% 1996, 46% avg. Sorghum 1% poor, 13% fair, 74% good, 12% excellent. Soybean 2% poor, 14% fair, 70% good, 14% excellent. Sunflowers 11% fair, 79% good, 10% excellent. Sunflowers planted 75%, no historic data available. First cut alfalfa hay 100%, 98% 1996, 98% avg.; 2nd cut alfalfa 20%, 12% 1996, 17% avg. Pasture feed 3% poor, 17% fair, 67% good, 13% excellent. Stock water supplies 8% short, 87% adequate, 5% surplus. Chinch bugs continue to be of concern in corn. Major field activities included planting fall crops, cutting hay, harvesting wheat. Livestock reported as gaining well.

KENTUCKY: Days suitable fieldwork 1.0. Topsoil 14% adequate, 86% surplus. Subsoil 15% adequate, 85% surplus. Heavy rainfall in some areas early in the week. Sunny, normal temperatures by the weekend. Very little field activity until late in the week. Burley tobacco set 50%, 85%, 1996, 97% avg. Dark tobacco 65% set. Set tobacco 5% very poor, 25% poor, 41% fair, 25% good, 4% excellent. Disease, insects, plant size a problem for tobacco. A few cases of blue mold reported. Emerged corn 4% very poor, 30% poor, 37% fair, 24% good, 5% excellent. Corn not planted this week will be switched to sorghum or soybeans. Winter wheat 1% very poor, 11% poor, 34% fair, 46% good, 8% excellent. Harvest will begin this week. Pasture feed 1% very poor, 7% poor, 26% fair, 48% good, 18% excellent. Barley harvest underway. Most of the hay crop very mature, still too wet to cut.

LOUISIANA: Days suitable for fieldwork 3.7. Soil moisture 6% short, 54% adequate, 40% surplus. Corn 1% poor 12% fair, 63% good, 24% excellent; 73% silked, 93% 1996, 86% avg.; 38% dough, 38% 1996, 41% avg. Corn development was aided by warmer temperatures. Cotton 0% setting bolls, 2% 1996, 8% avg.; growers reported light to moderate infestations of boll weevils. Hay 84% first cutting, 85% 1996, 83% avg. Peaches 37% fair, 58% good, 5% excellent; 37% harvested, 37% 1996, 34% avg. The occurrence of sheath blight in rice increased with almost daily rains. Sorghum 5% poor, 32% fair, 60% good, 3% excellent; 99% emerged, 100% 1996, 97% avg.; 0% headed, 12% 1996, 13% avg. Soybeans 87% emerged, 93% 1996, 87% avg.; 17% blooming, 10% 1996, 3% avg. A few soybean farmers reported they may be unable to plant late varieties due to excessive soil moisture. Spring plowing 100%, 100% 1996, 99% avg. Sugarcane 3% poor, 19% fair, 55% good, 23% excellent.

Sugarcane was holding up well despite extremely wet conditions. Sweet potatoes 67% planted, 77% 1996, 71% avg. Wheat 93% harvested, 100% 1996, 96% avg. Wheat harvest was once again stopped by rain. Livestock 2% poor, 22% fair, 67% good, 9% excellent. Vegetables 1% very poor, 10% poor, 34% fair, 48% good, 7% excellent.

MARYLAND: Days suitable for fieldwork 6.2. Topsoil moisture 3% very short, 48% short, 48% adequate, 1% surplus. Subsoil moisture 1% very short, 33% short, 64% adequate, 2% surplus. Winter wheat 1% very poor, 5% poor, 23% fair, 53% good, 18% excellent; 68% turned, 81% 1996, 79% avg. Rye 18% fair, 66% good, 16% excellent; 77% turned, 70% 1996, 81% avg.; 21% harvested, 25% 1996, 17% avg. Barley 2% very poor, 2% poor, 20% fair, 50% good, 26% excellent; 98% turned, 98% 1996, 99% avg.; 45% harvested, 36% 1996, 45% avg. Report of good barley yields in upper eastern shore. Field corn 100% planted, 98% 1996, 99% avg. Soybeans 66% planted, 57% 1996, 67% avg. Sorghum 78% planted, 50% 1996, 82% avg. Apples 2% very poor, 5% poor, 19% fair, 61% good, 13% excellent. Peaches 37% very poor, 2% poor, 29% fair, 31% good, 1% excellent. Sweet corn 93% planted, 94% 1996, 95% avg. Tomatoes 99% planted, 96% 1996, 96% avg. Cucumbers 85% planted, 89% 1996, 89% avg. Tobacco 99% transplanted, 96% 1996, 92% avg. Green peas harvested 78%, 36% 1996, 66% avg. Strawberries 63% harvested, 81% 1996, 88% avg. Hay supplies 8% very short, 4% short, 86% adequate, 2% surplus. Alfalfa hay 98% 1st cutting, 83% 1996, 95% avg.; 26% 2nd cutting, 22% 1996, 19% avg. Clover and other hays 84% 1st cutting harvested, 76% 1996, 89% avg.; 6% 2nd cutting, 5% 1996, 4% avg. Activities: harvesting of barley, reports on eastern shore and western Maryland of depleted soil moisture and need for rain.

MICHIGAN: Topsoil moisture was reported as 12% very short, 31% short, 53% adequate, and 4% surplus. Subsoil moisture was 8% very short, 23% short, 66% adequate, and 3% surplus. Asparagus, harvested 87%, 90% 1996, 97% avg. Dry beans, planted 94% 1997, 24% 1996, 73% avg. All hay, first cutting harvested 55%, 25% 1996, 55% avg.

MINNESOTA: Days suitable for fieldwork 5.6. Topsoil moisture 31% very short, 34% short, 35% adequate, 0% surplus. Corn 61% cultivated, 38% 1996, 51% 5 yr. avg.; 14 in. height, 10 in. 1996, 15 in. 5 yr. avg. Soybeans 96% emerged, 93% 1996, 90% 5 yr. avg.; 26% cultivated, 13% 1996, 28% 5 yr. avg.; 5 in. height, 4 in. 1996, 6 in. 5 yr. avg. Spring wheat 51% jointed, 39% 1996, 70% 5 yr. avg.; 4% headed, 6% 1996, 20% 5 yr. avg. Oats 78% jointed, 62% 1996, 78% 5 yr. avg.; 12% headed, 11% 1996, 31% 5 yr. avg. Barley 43% jointed, 31% 1996, 70% 5 yr. avg.; 3% headed, 11% 1996, 22% 5 yr. avg. Alfalfa 82% first cutting, 68% 1996, 75% 5 yr. avg. Pasture 15% very poor, 22% poor, 40% fair, 21% good, 2% excellent. Spring wheat 2% very poor, 4% poor, 40% fair, 44% good, 10% excellent. Barley 1% very poor, 3% poor, 40% fair, 46% good, 10% excellent. Corn 3% very poor, 10% poor, 38% fair, 44% good, 5% excellent. Oats 12% very poor, 11% poor, 38% fair, 35% good, 4% excellent. Sugar beets 0% very poor, 4% poor, 27% fair, 59% good, 10% excellent. Soybeans 5% very poor, 11% poor, 36% fair, 43% good, 5% excellent.

MISSISSIPPI: Days suitable for fieldwork 3.2. Soil moisture 2% short, 55% adequate, 43% surplus. Corn 43% silked, 61% 1996, 54% avg.; 8% dough, 16% 1996, 16% avg.; 4% very poor, 10% poor, 22% fair, 51% good, 13% excellent. Soybeans 86% planted, 98% 1996, 89% avg.; 78% emerged, 96% 1996, 83% avg.; 9% blooming, 21% 1996, 7% avg.; 7% very poor, 13% poor, 25% fair, 50% good, 5% excellent. Wheat 97% mature, 100% 1996, 99% avg.; 65% harvested, 92% 1996, 76% avg.; 2% very poor, 16% poor, 52% fair, 27% good, 4% excellent. Peaches 34% harvested, 45% 1996, 37% avg.; 1% poor, 29% fair, 47% good, 24% excellent. Peanuts 100% planted, 100% 1996, 98% avg.; 2% poor, 16% fair, 80% good, 2% excellent. Sweet potatoes 28% planted, 60% 1996, 73% avg.; 5% poor, 85% fair, 8% good, 2% excellent. Hay 95% harvested (cool season), 99% 1996, N/A avg.; (warm season), 30% harvested, 34% 1996, N/A avg.; 2% very poor, 10% poor, 29% fair, 49% good, 10% excellent. Watermelons 97% planted, 100% 1996, 99% avg.; 3% very poor, 7% poor, 30% fair, 48% good, 12% excellent. Blueberries 1% poor, 24% fair, 50% good, 25% excellent. Cattle 2% poor, 22% fair, 54% good, 21% excellent. Pasture 3% poor, 19% fair, 59% good, 19% excellent.

Activities: The main activities for the week included weed control, planting soybeans and harvesting hay and wheat.

MISSOURI: Days suitable for fieldwork 4.1 ranging from 3.4 days in the northwest and west-central to 5 days in north-central, northeastern and south-central. Topsoil moisture, 9% short, 81% adequate, 10% surplus. Surplus moisture ratings of 25% or more reported in the east-central and southeastern districts. Soybean planting most advanced in the northwest, north-central and central districts with about 98% planted, least advanced southwest and south-eastern districts at 86%. Sorghum planting is virtually complete in the southern third of the State, least advanced northeast at 84%. All wheat is coloring in the southern third of the State. Oat harvest 0%, 2% 1996, 1% avg. First crop alfalfa 89%, 80% 1996, 86% avg. Second crop alfalfa 6%, 6% 1996, 8% avg. Other hay 51%, 48% 1996, 54% avg. Pastures 1% very poor, 9% poor, 33% fair, 51% good, 6% excellent.

MONTANA: Days suitable for field work 5.6. Topsoil 6% very short, 13% short, 73% adequate, 8% surplus. Subsoil moisture 5% very short, 18% short, 69% adequate, 8% surplus. Areas of the state continue to report flooding of streams and rivers. Some areas that had been dry received rain, hail over the weekend. Oat emerged 97%, 98% 1996, 99% avg.; 4% very poor, 14% poor, 33% fair, 41% good, 8% excellent. Corn 99% emerged, 98% 1996. Potatoes emerged 99%, 84% 1996. Alfalfa hay first cutting 14% complete, 10% 1996, 16% avg; other hay first cutting 9% complete, 7% 1996, 11% avg. Cattle moved to summer pasture 95%, 98% 1996, 95% avg.; sheep moved 93%, 98% 1996, 95% avg.

NEBRASKA: Days suitable for fieldwork 6.0. Subsoil 1% very short, 25% short, 73% adequate, 1% surplus. Topsoil 8% very short, 34% short, 56% adequate, 2% surplus. Topsoil moisture supplies were becoming short over much of the State last week. Reports indicated that crops looked good, but a good rain was needed to promote row crop development and to provide adequate pasture growth. Winter wheat condition 1% very poor, 12% poor, 38% fair, 47% good, 2% excellent; 50% turning color, 34% 1996, 53% avg; southern parts of the State expect test cutting to begin the first week of July. Corn condition 2% poor, 25% fair, 59% good, 14% excellent; some reporters in northeastern parts of the State indicated cutworm damage; corn borer moths were reported across the State; many reports indicated that the leaves were rolling due to lack of moisture. Soybeans condition 3% poor, 29% fair, 59% good, 9% excellent; 98% emerged, 88% 1996, 89% avg. Sorghum condition 4% poor, 41% fair, 51% good, 4% excellent; 97% emerged, 87% 1996, 88% avg. Dry bean 96% planted, 96% 1996, 94% avg; 77% emerged, 78% 1996, 82% avg. Alfalfa condition 2% very poor, 13% poor, 39% fair, 40% good, 6% excellent; 83% first cutting, 81% 1996, 86%. Wild hay condition 1% very poor, 11% poor, 37% fair, 48% good, 3% excellent. Pasture and range condition 1% very poor, 10% poor, 28% fair, 59% good, 2% excellent. Other activities: cultivating row crops; applying chemicals; irrigation preparation; moving grain to market; livestock care.

NEVADA: Rainfall over the past two weeks improved pasture and range feed condition statewide, but damaged a lot of first cutting hay in northern Nevada. Irrigation water supplies adequate all areas. Haying continued between thunderstorms with first cutting advancing in the north and second cutting finishing up in the south. Heading advanced in fall seeded grains. Wheat condition rated mostly good. Barley condition rated fair to good as some acreage was damaged by smut. Corn and Sudan growth accelerated with warmer temperatures. Onions in good to excellent condition. Potatoes good condition. Most garlic good to excellent, although some fields hurt by winterkill in north. Main farm, ranch activities: Alfalfa hay harvest, irrigating, spraying.

NEW ENGLAND: Days suitable for field work: 5.3. Topsoil moisture: 1% very short, 22% short, 64% adequate, 13% surplus. Subsoil moisture: 20% short, 66% adequate, 14% surplus. Pasture condition: 3% poor, 24% fair, 65% good, 8% excellent. Massachusetts potatoes: 100% planted, 100% 1996, 100% avg, 100% emerged; condition good. Rhode Island potatoes: 100% planted, 100% 1996, 100% avg, 99% emerged; condition good. Maine potatoes: 100% planted, 100% 1996, 100% avg, 55% emerged; condition good. Field corn: 99% planted, 95% 1996, 99% avg, 90% emerged; condition good to fair. Sweet corn: 90% planted, 90% 1996, 90% avg, 85% emerged; condition good to fair. Oats in Maine: 100% planted,

100% 1996, 99% avg, 90% emerged; condition good. Barley in Maine: 100% planted, 100% 1996, 90% emerged; condition good. Shade tobacco: 100% planted, 100% 1996, 100% avg; condition good. Broadleaf tobacco: 70% planted, 75% 1996, 90% avg; condition good. Hay: 50% harvested, 35% 1996, 55% avg; condition good to fair. Cranberries in early bloom to bud stage; fruit set average; condition good. Highbush blueberries in petal fall; fruit set average; fruit size average; condition good to excellent. Wild blueberries reported in petal fall to full bloom; fruit set above average; condition good. Strawberries full bloom to petal fall; fruit set average; fruit size average; condition good to excellent. Pears in petal fall; fruit set average; fruit size average; condition good. Apples in petal fall; fruit set average to above average; fruit size average; condition excellent to good. Peaches in petal fall and beyond; fruit set average; fruit size average; condition good. The week was warm and dry, with a few much needed showers interrupting farm activities. The yield of the first cut of hay was lighter than previous years, as much as 50% lighter, but the quality looks good. Major farm activities: harvesting strawberries, spinach, rhubarb and peas; planting sweet corn; opening farm stands; spreading manure on cut fields; and applying fungicide and pesticide.

NEW JERSEY: Days suitable for fieldwork averaged 7 days. Topsoil moisture reported as short to adequate. Farmers are busy implementing pest control measures, irrigating, planting and harvesting. Late summer vegetables are being planted after the spring crop has been harvested. Harvesting of lettuce (all types), asparagus, spinach, leeks, herbs, parsley, turnips, endive, escarole, beets, cabbage (all types), peas, kale, pickles, cucumbers, fava beans, squash and swiss chard. Early planted soybeans are about 4 inches in height with field corn about 8 to 10 inches in height. Cutting and baling of hay continues. Wheat and barley are brown with some harvesting of barley reported. Pastures reported in fair to good condition. Blueberries continue to size well with some harvest of the early varieties occurring. Peaches and apples continue to size well. Cranberries are blooming. Harvesting of strawberries is winding down.

NEW MEXICO: Days suitable for fieldwork 6.7. Topsoil moisture 5% very short, 25% short, 68% adequate, 2% surplus. Planting of sorghum was almost finished with 96% of the crop in the ground, 49% 1996, 73% avg. Summer thunderstorms continued to cause some delay and damage to the hay crop. Second cutting of alfalfa was 56% complete and third cutting was underway with 5% completed. Alfalfa condition was 3% poor, 30% fair, 57% good, 10% excellent. Crop progress remained slow as cool temperatures at the beginning of the week kept statewide average below normal again this week. Wheat condition 1% poor, 11% fair, 80% good, 8% excellent; harvest 7% completed, 48% 1996, 39% avg. Cotton condition 7% poor, 32% fair, 49% good, 12% excellent with 28% squaring, 45% 1996, 34% avg. Onion conditions improved slightly over last week with 6% fair, 54% good, 40% excellent; harvest was 32% complete. Chile condition 4% poor, 24% fair, 54% good, 18% excellent; corn condition 10% fair, 84% good, 6% excellent. Cattle and sheep continued to be in fair to good condition. Range and pasture feed conditions showed very little change at 1% very poor, 3% poor, 28% fair, 63% good, 5% excellent.

NEW YORK: Days suitable: 5.1. Soil moisture supplies were 18% very short, 36% short, 31% adequate, and 15% surplus. Corn 93% planted, 94% 1996, 98% average. Hay harvest in full swing. Alfalfa 59% cut, 61% 1996, 64% average. Clover-timothy 54% cut, 65% 1996, 57% average. Hay condition 33% fair, 67% good. Wheat in good condition, maturing rapidly. Soybeans 90% planted. Dry bean planting in full swing. Vegetable planting continued. Crops in good condition. Irrigation needed most areas. Non-irrigated fields dry, need rainfall for good growth. Finger Lakes grapes a week away from bloom. Hudson Valley grapes in bloom. Rain in western areas increased disease pressure in grapes. Tart and sweet cherry crops expected light.

NORTH CAROLINA: Statewide, 5.8 days were suitable for fieldwork. Most areas in North Carolina got a break from the below normal temperatures this week. Rainfall was slightly below normal allowing farmers a full week for field activities. Soil moisture is rated 9% very short, 34% short, 56% adequate, and 1% surplus. Activities for the week included: planting sorghum, soybeans, sweetpotatoes, and Burley tobacco; fertilizer and herbicide applications on corn; harvesting small grains, Irish potatoes, and peaches; cutting hay; maintaining pastures; tending livestock; repairing equipment; and general farm maintenance.

NORTH DAKOTA: Days suitable for fieldwork 6. Showers and thunderstorms across the state provided some relief for crops; however, small grain development was behind average. Producers reported beetles attacking sunflower fields. In many areas, grasshoppers have already become a problem. Topsoil moisture supplies: 20% very short, 41% short, 38% adequate, 1% surplus. Subsoil moisture supplies: 6% very short, 27% short, 66% adequate, 1% surplus. Small grain development accelerated in the jointing and boot stages, but was behind average. Durum wheat 31% jointing and beyond, 13% boot and beyond; 21%, 5% last year; 42%, 13% average. Late season crops: canola 87% emerged and beyond, 42% rosette and beyond; 99%, 41% last year; corn 100% emerged and beyond; 99% last year; 98% average; dry edible beans 99% emerged and beyond; 95% last year; 96% average; flaxseed 96% emerged and beyond; 95% last year; 94% average; potatoes 81% emerged and beyond; 96% last year; 97% average; soybeans 98% emerged and beyond; 96% last year; 97% average; sugarbeets 100% emerged and beyond; 100% last year; 100% average; sunflower 95% emerged and beyond; 94% last year; 92% average. Conditions of all crops, except sugarbeets and sunflowers, deteriorated during the week. Emerged crop condition: durum 4% very poor, 22% poor, 40% fair, 34% good; canola 8% very poor, 25% poor, 34% fair, 31% good, 2% excellent; corn 8% poor, 20% fair, 60% good, 12% excellent; dry edible beans 1% very poor, 5% poor, 26% fair, 63% good, 5% excellent; flaxseed 3% very poor, 18% poor, 45% fair, 33% good, 1% excellent; potatoes 6% poor, 32% fair, 58% good, 4% excellent; soybeans 2% poor, 18% fair, 63% good, 17% excellent; sugarbeets 6% poor, 24% fair, 67% good, 3% excellent; sunflower 8% poor, 29% fair, 55% good, 8% excellent. Pasture conditions: 17% very poor, 41% poor, 29% fair, 11% good, 2% excellent.

OHIO: Days suitable for fieldwork was 3.9 days. Topsoil moisture 2% short, 66% adequate, and 32% surplus. Corn 98% emerged, 82% 1996, 95% avg. Most districts above 95% corn emerged. Average corn development stage at 3 to 4 leaves. Growers increased soybean planting 7 points from the previous week, 2 days ahead of the avg. Soybeans 82% emerged, 51% 1996, 83% avg. Soybean emergence above 85% west central, central, and southeastern districts. Oats headed most advanced in the central, southwestern, and south central districts; all over 50%. Oats headed 11 points behind the avg. Winter wheat headed rose 13 points from the previous week, most districts above 90%. Winter wheat 9% turning color, 23% 1996, 45% avg. Alfalfa hay 1st cutting 67%, 53% 1996, 84% avg. Alfalfa hay 2nd cutting 1%, 0% 1996, 7% avg. Other hay 1st cutting 49%, 37% 1996, 71% avg. Other hay 2nd cutting 1%, 0% 1996, 2% avg. Processing tomatoes 97% transplanted, 99% 1996, 99% avg. Strawberries 20% harvested, 38% 1996, 54% avg. Growers planting and replanting corn and soybeans, cultivating, side dressing corn, applying anhydrous ammonia and nitrogen, spraying herbicides and pesticides, field scouting, and machinery and fence repair. The northern part of the state, peppers being planted. In the southern part of the state, growers are harvesting cabbage, peas, and beets. Finishing pumpkin planting. One reporter stated 60 percent of the tobacco was set. One reporter stated the thistles were withstanding the herbicides. Giant and common ragweed pressure in corn and soybeans. European corn borer first brood is starting, moths in the northern part of the state and no egg laying except for sweet corn in the southern areas. Other pests: cucumber beetles, bean beetles, alfalfa weevils, aphids, meadow spittlebugs, wire worms, and slugs. Diseases reported: septoria in wheat, mildew, phytophthora in soybeans, and early blight in tomatoes. Crop conditions showing signs of improvement. Hay conditions varied slightly. Pasture and grass are being spot sprayed for weeds. Livestock reported in good condition. Reports of increased fly and mosquito activities around the livestock.

OKLAHOMA: Wheat harvest accelerated by mid-week as high winds dried fields. Days suitable for fieldwork 4.4. Topsoil moisture 5% short, 82% adequate, 13% surplus. Subsoil moisture 5% short, 90% adequate, 5% surplus. Wheat 100% soft dough, 100% 1996, 99% avg; 9% plowed, 38% 1996, 20% avg; Oats 95% soft dough, 97% 1996, 93% avg; 30% harvested, 63% 1996, 35% avg; Corn 5% tasseling, 45% 1996, 24% avg; Sorghum 40% up-to-stand, 47% 1996, 64% avg; Soybeans 76% planted, 93% 1996, 68% avg; 62% up-to-stand, 75% 1996, 52% avg; Peanuts 98% planted, 97% 1996, 90% avg; 88% up-to-stand, 86% 1996, 76% avg; 12% pegging, 19% 1996, 7% avg; Cotton 99% planted, 97% 1996, 89% avg; 91% up-to-stand, 89% 1996, 76% avg; Alfalfa hay 51% 2nd cutting, 50% 1996, 45% avg; All other hay 61% 1st cutting, 47% 1996, 64% avg; Watermelons 99% running, 99% 1996, 81% avg; 79% set fruit, n/a 1996,

n/a avg; Livestock 1% poor, 11% fair, 77% good, 11% excellent. Fed cattle prices up \$1.00

OREGON: Days suitable for fieldwork 6.6. Topsoil 9% short, 85% adequate, 6% surplus. Subsoil 7% short, 90% adequate, 3% surplus. Winter wheat 1% poor, 8% fair, 61% good, 30% excellent. Winter wheat 100% headed, 97% last year, 98% average. Activities: Producers busy with hay crop. Some rained on, but haying continued as weather permitted. East side: Summer fallow being worked. Recent showers improved conditions of small grains. Some areas missed rains, cropland dry. Westside: Most grain crops growing slowly due to cooler temperatures. Grass seed fields in bloom or post bloom, windrowing started in crimson clover. Nurseries shifting to summer maintenance programs. Many nurseries shipping balled stock. Annual sales excellent. Willamette Valley: Snap beans, sweet corn planting nearly finished. Rhubarb, leafy green vegetables being harvested in the north Willamette Valley. Central area potatoes mostly emerged with Norkotah rows reported 50% closed. Asparagus harvest winding down in northeast. Strawberry harvesting, processing continued, volume past peak. Raspberry harvest underway. Blueberry harvest beginning with early varieties. Sweet cherry harvest winding down in the Willamette Valley, while harvest in the Mid-Columbia getting underway. Southern coast cranberry fruit set, sizing projected favorably. Rogue and Hood River Valley thinning, cover spraying continued. Livestock mostly good to excellent. Recent rainfall greatly enhanced pasture growth statewide. Southwestern sections began to irrigate pasture ground. Cattle continued to be moved to summer grazing ranges east of the Cascades.

PENNSYLVANIA: Fair week for field work. Days suitable for field work 4.7. Soil moisture 3% very short, 22% short, 70% adequate, 5% surplus. Avg. corn height 9 in., 12 in. 1996, 12 in. avg. Corn crop condition 7% poor, 27% fair, 55% good, 11% excellent. Tobacco transplanted 85% complete, 72% 1996, 86% avg. Soybeans planted 91% complete, 84% 1996, 88% avg. Soybean crop condition 5% poor, 29% fair, 62% good, 4% excellent. Barley 85% turning yellow, 82% 1996, 73% avg., 40% ripe, 41% 1996, 30% avg. Wheat 32% turning yellow, 48% 1996, 34% avg. Wheat crop condition 4% poor, 25% fair, 63% good, 8% excellent. Oats 50% heading or headed, 45% 1996, 27% avg. Oat crop condition 6% poor, 28% fair, 63% good, 3% excellent. Alfalfa first cutting 70% complete, 67% 1996, 76% avg. Timothy clover first cutting 40% complete, 40% 1996, 55% avg. Quality of hay made 2% very poor, 3% poor, 26% fair, 50% good, 19% excellent. Peach condition 23% very poor, 20% poor, 28% fair, 29% good. Apple condition 15% poor, 33% fair, 52% good. Activities: planting corn and soybeans; making hay and haylage; spraying; fixing fences; hauling manure; and caring for livestock.

SOUTH CAROLINA: Soil moisture 22% short, 73% adequate, 5% surplus. Barley 89% harvested, 79% 1996, 70% avg; 8% fair, 60% good, 32% excellent. Cantaloupes 10% poor, 45% fair, 45% good. Corn 69% silked, 70% 1996, 60% avg; 22% doughed, 27% 1996, 19% avg; 3% poor, 15% fair, 70% good, 12% excellent. Cucumbers 45% harvested, 51% 1996, 60% avg; 5% poor, 45% fair, 45% good, 5% excellent. Grain hay 100% harvested, 98% 1996, 94% avg; 1% poor, 21% fair, 75% good, 3% excellent. Oats 98% ripe, 99% 1996, 96% avg; 87% harvested, 89% 1996, 78% avg; 15% fair, 78% good, 7% excellent. Peaches 30% harvested, 17% 1996, 20% avg; 3% poor, 30% fair, 37% good, 30% excellent. Rye 100% ripe, 99% 1996, 92% avg; 92% harvested, 75% 1996, 68% avg; 12% fair, 68% good, 20% excellent. Snap beans 99% planted, 100% 1996, 94% avg; 42% harvested, 24% 1996, 27% avg; 10% fair, 80% good, 10% excellent. Sorghum 76% planted, 81% 1996, 67% avg; 50% headed; 40% turned color; 9% fair, 67% good, 24% excellent. Soybeans 80% planted, 77% 1996, 72% avg; 11% fair, 83% good, 6% excellent. Sweetpotatoes 90% planted, 97% 1996, 82% avg; 8% fair, 91% good, 1% excellent. Tobacco 30% topped, 27% 1996, 29% avg; 3% poor, 15% fair, 74% good, 8% excellent. Tomatoes 30% fair, 50% good, 20% excellent. Watermelons 12% harvested, 18% 1996, 22% avg; 25% fair, 73% good, 2% excellent. Winter wheat 85% ripe, 98% 1996, 97% avg; 50% harvested, 84% 1996, 73% avg; 12% fair, 73% good, 15% excellent.

SOUTH DAKOTA: Topsoil moisture 4% very short, 16% short, 69% adequate, 11% surplus. Subsoil moisture 6% short, 72% adequate, 22% surplus. Days suitable for fieldwork 5.4. Winter wheat 94% boot, 1% turning color. Spring wheat 56% boot. Winter rye 13% turning color. Winter

rye 27% poor, 32% fair, 33% good, 8% excellent. Alfalfa hay 1% very poor, 8% poor, 26% fair, 51% good, 14% excellent. Flax 2% very poor, 69% fair, 24% good, 5% excellent. Sorghum 43% fair, 46% good, 11% excellent. Sunflowers 1% very poor, 1% poor, 25% fair, 59% good, 14% excellent. Sunflowers 89% planted. Flax 100% planted, 95% emerged. Livestock condition 1% poor, 9% fair, 73% good, 17% excellent. Feed supplies 3% very short, 7% short, 77% adequate, 13% surplus. Stock water supplies 73% adequate, 27% surplus.

TENNESSEE: Days suitable for fieldwork 2.0. Topsoil moisture 48% adequate, 52% surplus. Subsoil moisture 48% adequate, 52% surplus. Farmers have fallen 2 to 3 weeks behind normal with most field activities. This is a result of excess rainfall over the past 4 to 5 weeks, overcast days. In addition to fieldwork, crop development has also been greatly affected by the weather conditions. However, pastures have benefitted from the rains and are in mostly good-to-excellent condition. Farmers have become optimistic with the recent week's warmer temperatures and a few days of sunshine. Fieldwork should rapidly increase, if the summer like conditions continue. Corn 3% very poor, 8% poor, 27% fair, 49% good, 13% excellent; 3% tasseled, 17% 1996, 18% avg. Tobacco 12% poor, 37% fair, 47% good, 4% excellent; 69% transplanted, 91% 1996, 95% avg. Wheat 82% ripe, 86% 1996, 91% avg; 13% harvested, 48% 1996, 53% avg. Sorghum 4% poor, 35% fair, 57% good, 4% excellent; 89% planted, 96% 1996, 99% avg. Pasture 2% poor, 18% fair, 59% good, 21% excellent. Alfalfa hay 4% poor, 24% fair, 57% good, 15% excellent; 91% first cutting, 99% 1996, 100% avg. Other hay 2% very poor, 8% poor, 35% fair, 48% good, 7% excellent.

TEXAS: A return to warmer, open conditions by mid-week welcomed relief for producers most areas. Early week storms in Plains caused some damage. The warmer temperatures aided growth, maturing of crops. Small grain harvest resumed by mid-week. Haying remained active many areas. Livestock conditions also remained good. By late week, heavy rain began to move into large part Central. Crops: Small Grains: Fields in High Plains turned color rapidly by end week with many fields ready for harvest as fields dry out. Harvest delayed part week North Central areas, but resumed by late. Harvest nearing completion Blacklands, Hill Country. Corn: Fields in Plains continued make good progress. Irrigation needs reduced. Fields in Blacklands were in dough stage, making good progress. Fields entering dent stage in Coastal Bend, Rio Grande Valley where some fields have matured. Fields along Upper Coast various stages from silk to dent; 18% doughing, 37% 1996, 33% avg; 1% denting, 12% 1996, 9% avg. Cotton: Early planted fields in Plains made good progress with return to warmer temperatures by late week. Early week however, some losses reported due high winds, hail. Planting operations increased by late week, were winding down many fields. Warmer temperatures central areas also helped progress. Insect problems continued many fields. Plants beginning to set bolls Blacklands, Central. Progress also good in Coastal Bend, Rio Grande Valley where bolls setting. Spraying activity also continued these areas; 6% setting bolls, 13% 1996, 11% avg. Grain Sorghum: Some replanting necessary Plains due heavy rains, hail associated with early week storms. Additional drying time needed complete planting. Fields heading North Central, Blackland areas where progress good for week. Fields turning color Coastal Bend, maturing in Rio Grande Valley. Midge caused some problems Valley; 8% turning color, 26% 1996, 26% avg. Peanuts: Good growth occurred fields in Plains, North Central areas. Plants pegging. Planting resumed South Central areas with drying conditions late week. Early planted fields made good progress, were also pegging. Rice: Some early fields beginning to head along Upper Coast where progress for week good, but still remains behind schedule. Some very late planting occurred. Soybeans: Planting continued in Plains. Producers trying to finish up planting activity along Upper Coast. Early fields setting pods, showing good progress. Sugar beets: Good progress occurred during week. Some weed control completed by late week.

Commercial Vegetables: Rio Grande Valley, harvest some vegetables occurred during week. San Antonio- Winter Garden, rainfall early week, delayed harvest, however by late week harvest resumed on carrots, cabbage, onions, increased on watermelons. High Plains, onions, potatoes made good progress. East, harvest made good progress by late week. Trans-Pecos, cantaloups made good progress as harvest neared. Peaches: Harvest full swing Hill Country. Some disease, insect problems have occurred. Harvest continued many other areas as weather permitted. Pecans: The crop continued progress well most areas. Producers preparing for second generation of casebearers.

Range and Livestock: Pastures across state continued make good progress. Haying activity continued, yields very good. Wet conditions some areas slowed progress early week. Livestock made good gains on ranges, pastures most areas. Markets remained strong.

UTAH: Days suitable for field work 6.0. Topsoil moisture 1% very short, 11% short, 83% adequate, 5% surplus. Subsoil moisture 1% very short, 10% short, 78% adequate, 11% surplus. Pasture, range condition 2% very poor, 5% fair, 64% good, 29% excellent. Winter wheat heading or better 93%, 98% 1996, 88% avg. Spring wheat heading or better 75%, 72% 1996, 70% avg. Barley heading or better 66%, 77% 1996, 71% avg. Corn height 16 in., 14 in. 1996, 13 in. avg. Alfalfa hay 1st cutting 71%, 82% 1996, 81% avg. Other hay cutting 18%, 16% 1996, 27% avg. Cattle moved to summer range 93%, 96% 1996, 92% avg. Sheep moved to summer range 90%, 96% 1996, 84% avg. Major farm, ranch activities were: hay cutting, irrigating, spraying for weeds, moving cattle and sheep to summer range. Rain continued to hamper alfalfa, other hay cutting with several counties reporting cut hay getting rained on.

VIRGINIA: Days suitable for fieldwork 5.4. Topsoil moisture 10% very short, 40% short, 45% adequate, 5% surplus. Subsoil moisture 10% very short, 30% short, 57% adequate, 3% surplus. Corn 99% planted, 100% 1996, 100% avg; 5% very poor, 20% poor, 42% fair, 32% good, 1% excellent. Soybeans 55% planted, 54% 1996, 57% avg. Cotton 1% very poor, 9% poor, 60% fair, 30% good. Winter wheat 10% harvested, 9% 1996, 17% avg; 4% very poor, 12% poor, 30% fair, 50% good, 4% excellent. Barley 53% harvested, 53% 1996, 63% avg; 2% poor, 30% fair, 60% good, 8% excellent. Apples 5% very poor, 15% poor, 30% fair, 45% good, 5% excellent. Peaches 30% very poor, 30% poor, 20% fair, 20% good. Flue tobacco 8% poor, 42% fair, 45% good, 5% excellent. Burley tobacco transplanted 95%, 94% 1996, 90% avg; 8% poor, 31% fair, 60% good, 1% excellent. Dark fire cured tobacco 6% poor, 44% fair, 45% good, 5% excellent. Peanuts 35% fair, 50% good, 15% excellent. Summer potatoes 30% poor, 30% fair, 40% good. Pasture 3% very poor, 12% poor, 40% fair, 40% good, 5% excellent. Alfalfa 5% poor, 30% fair, 57% good, 8% excellent. Other Hay 5% poor, 55% fair, 35% good, 5% excellent. Throughout the southwestern region of the State, a weak to moderate outbreak of blue mold developed in burley tobacco with a few sporadic cases in flue tobacco. Producers are busy spraying fungicide in affected areas. Tobacco marketing experts as well as extension agents are suggesting to spray fields as a precaution since damp conditions are conducive to the wide spreading of blue mold. Winter Wheat combining begun with yields varying from fair to excellent. Scattered storms over the weekend brought excessive rain to part of the State and none to the rest, which is becoming very dry. Overall field conditions are deteriorating rapidly where little, if any, rainfall received. Corn, soybeans and cotton are at least two weeks behind normal growth schedule due to dry conditions and cool spring temperatures. Insect damage to corn was reported in isolated areas. Dry conditions continue to be the cause of soybean planting delays especially following small grains in some localities. Volume up and quality down on the hay crop in areas that are extremely wet. Other activities included tobacco cultivation and the continuation of insecticide and herbicide spraying of peanuts and cotton.

WASHINGTON: Days suitable for fieldwork 5.8. Topsoil moisture 3% short, 94% adequate and 3% surplus; subsoil 10% short, 88% adequate and 2% surplus. Winter wheat 97% headed, 93% 1996, 97% avg. Winter wheat dryland 10% fair, 65% good and 25% excellent; irrigated 70% good, and 30% excellent. Spring wheat, dryland 10% fair, 70% good and 20% excellent; irrigated 90% good and 10% excellent. Barley dryland, 15% fair, 70% good and 15% excellent; irrigated 100% good. Corn 100% good. Spring and winter grains continued to look good to excellent. The wet, cooler weather has been ideal for pollination and early seed development in cereal grains, but crop progress is behind normal. Dry beans 95%

planted, 99% 1996, 97% avg. Potatoes, 100% good. Hay and other roughage supplies, 2% very short, 18% short, 76% adequate, and 4% surplus. Wet weather continued to frustrate hay producers in many areas. Some producers continue to wait for more stable weather before haying. Range and pasture, 10% poor, 25% fair, 55% good and 10% excellent. Range and pastures continue to look good across the state. Some land is still flooded in the northeast. Strawberry harvest continued and early raspberry harvest began in western Washington. Apple scab and brown rot was common on tree fruit. The first lettuce harvest wound down and the second cabbage crop was planted. Irrigation was limited because of wet conditions. Some scattered hail was reported in central Washington, with the extent of damage to apples and pears unknown. Cherry harvest reported as two-thirds complete in Yakima County with the crop large and fruit size average. Green pea harvest and lima bean planting continued.

WEST VIRGINIA: Days suitable for fieldwork 4.7. Topsoil moisture 3% short, 92% adequate, 5% surplus. Corn 8% poor, 31% fair, 60% good, 1% excellent; 99% planted, 92% 1996, 96% avg. Hay 3% poor, 39% fair, 51% good, 7% excellent; 1st. cutting of hay 50%, 47% 1996, 63% avg. Hay conditions improved due to warmer and dryer weather. Oats 24% fair, 74% good, 2% excellent; 97% emerged, 95% 1996, 99% avg; 64% headed, 50% 1996. Soybeans 31% fair, 69% good; 92% planted, 85% 1996, 83% avg. Tobacco 19% fair, 80% good, 1% excellent; transplanted 81%, 94% 1996, 94% avg. Growers watching for evidence of blue mold as potential for outbreak has been high. Wheat 42% fair, 50% good, 8% excellent; 99% headed, 96% 1996, 94% avg. Apple condition 56% fair, 37% good, 7% excellent. Peach condition 16% poor, 84% fair. Cattle 11% fair, 84% good, 5% excellent. Sheep 4% fair, 92% good, 4% excellent. Activities: Planting corn, soybeans and transplanting tobacco. Making hay, preparing for wheat harvest and general maintenance.

WISCONSIN: Days suitable for fieldwork 4.6. Soil moisture 5% very short, 20% short, 69% adequate, and 6% surplus. First crop hay harvest reported at 70% started, compared to 30% in 1996, and the 5-year average of 61%. A reporter in Waupaca County stated hay quality is good to excellent as silos fill with haylage. Waushara County reported drying weather for hay wasn't very good last week. Soybean conditions rated 1% poor, 14% fair, 69% good, and 16% excellent. Pasture feed conditions were rated 3% very poor, 7% poor, 32% fair, 54% good, and 4% excellent. Scattered insect pressure from potato leafhoppers in alfalfa and European corn borer was showing up in some counties. Strawberries in Clark County were hit hard with winterkill, but a reporter stated that most of the fields opened this week for picking. Overall, crops are taking off with higher temperatures and rainfall.

WYOMING: Days suitable for fieldwork 6.2. Topsoil moisture supplies 11% short, 82% adequate, 7% surplus. Subsoil moisture supplies 8% short, 82% adequate, 10% surplus. Winter wheat 98% boot, 97% 1996, 95% avg; 95% headed, 87% 1996, 84% avg; 8% turning color, 17% 1996, 12% avg. Barley 90% jointed, 94% 1996, 88% avg; 79% boot, 73% 1996, 71% avg; 48% headed, 31% 1996, 41% avg; 0% turning color, 0% 1996, 2% avg. Oats 84% jointed, 84% 1996, 76% avg; 51% boot, 55% 1996, 51% avg; 18% headed, 16% 1996, 17% avg; 0% turning color, 3% 1996, 1% avg. Spring wheat 98% jointed, 67% 1996, 72% avg; 64% boot, 46% 1996, 56% avg; 30% headed, 23% 1996, 27% avg; 1% turning color, 0% 1996, 0% avg. Sugar beets 81% thinned, 78% 1996, 76% avg. Corn average height in inches 15.4. Dry beans 96% planted, 100% 1996, 97% avg; 90% emerged, 84% 1996, 76% avg. Alfalfa 17% first cutting complete, 26% 1996, 25% avg. Other hay acreage harvested 4% complete, 4% 1996, 7% avg. Reports of alfalfa weevils and grasshoppers. Range and pasture condition 11% fair, 66% good, 23% excellent. Range livestock moved to summer ranges 77% cattle and calves, 39% sheep and lambs.

International Weather and Crop Summary

June 15 - 21, 1997

HIGHLIGHTS

FSU-WESTERN: Widespread showers and thunderstorms maintained favorable crop prospects.

FSU-NEW LANDS: Early-week hot, dry weather in Kazakstan and the Altay Kray region in Russia was followed by cooler weather and scattered showers at week's end, improving growing conditions for spring grains.

EUROPE: Widespread rain maintained abundant moisture for crop development in northern Europe, while hot weather in southeastern Europe hastened maturity in winter grains.

AUSTRALIA: Cool, dry weather dominated primary winter grain areas.

CANADA: Beneficial showers in the eastern Prairies brought some relief to spring grains and oilseeds.

SOUTH ASIA: Rain covered central and eastern India, but the monsoon remained erratic, with many locations in need of moisture.

SOUTHEAST ASIA: Showers eased dryness in Thailand and the Philippines.

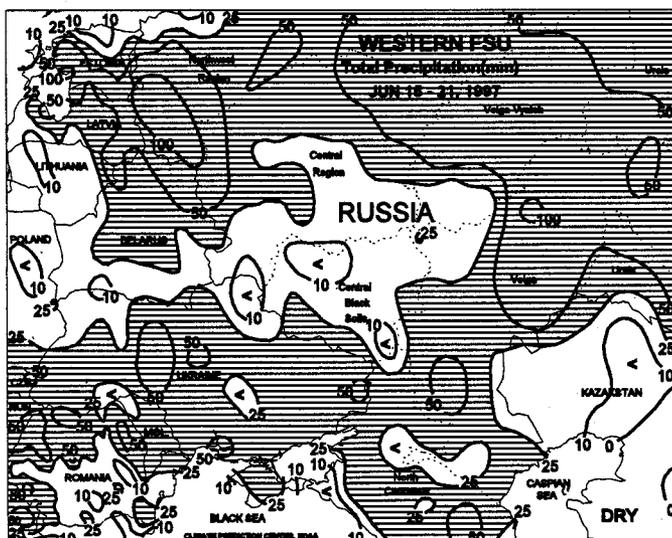
EASTERN ASIA: Hot, dry weather stressed rainfed summer crops in the North China Plain, but favored winter wheat harvesting.

SOUTH AMERICA: Widespread rain continued to boost topsoil moisture for germinating winter wheat across central Argentina and southern Brazil. Unseasonably heavy showers delayed Brazilian coffee and citrus harvesting.

MEXICO: Rain benefited vegetative corn across most of the main corn belt. Hot, dry weather stressed summer crops in east-central Mexico.

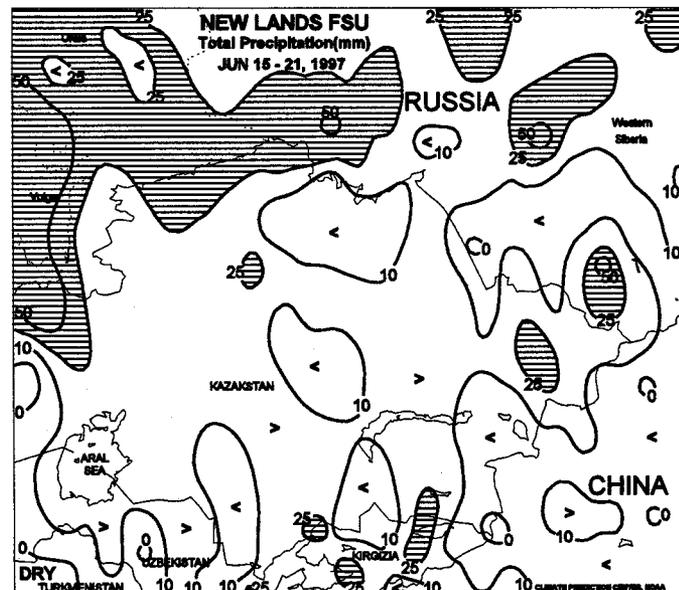
FSU-WESTERN

Widespread showers and thunderstorms continued to maintain favorable moisture conditions for crop development. In Ukraine and most of Russia, soaking rain (25-50 mm, with local amounts in excess of 50 mm) boosted prospects for winter grains and spring-sown crops. Lesser amounts of rain (10-25 mm) fell in Russia's Central Black Soils Region. Crop progress for winter grains likely ranged from the filling stage in Ukraine and southern Russia to flowering in extreme northern areas of Russia. Crop progress for spring grains likely ranged from heading to filling in southern Ukraine and southern Russia to jointing over the remainder of Russia. Summer crops continued vegetative growth. Elsewhere, timely rains (10-50 mm) fell in Belarus and the Baltics, benefiting winter grains advancing through reproduction. Weekly temperatures averaged near to slightly below normal over Ukraine, Russia, Belarus, and the Baltics.

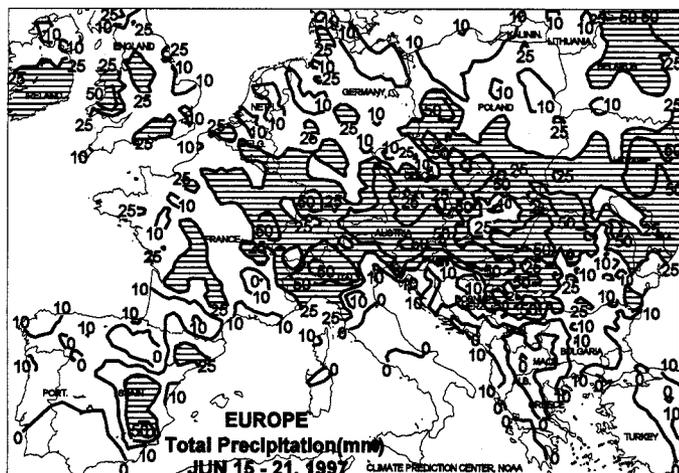


FSU-NEW LANDS

In Kazakstan, hot, dry weather continued to prevail over most spring grain areas early in the week. Extreme maximum temperatures ranged from 32 to 37 degrees C, promoting rapid crop development but further depleting moisture reserves. At week's end, light showers (7-25 mm, with scattered amounts in excess of 25 mm) and cooler weather brought some relief, improving growing conditions for crops in the jointing stage. The early-week heat and dryness in eastern Kazakstan also extended northward into the Altay Kray region in Russia, increasing evaporation rates and lowering soil moisture. Elsewhere in Russia, wet weather in the Urals and the western half of Western Siberia continued to maintain adequate to abundant moisture conditions for growth and development of spring grains. Weekly temperatures averaged 2 to 4 degrees below normal in these areas, slowing crop growth.

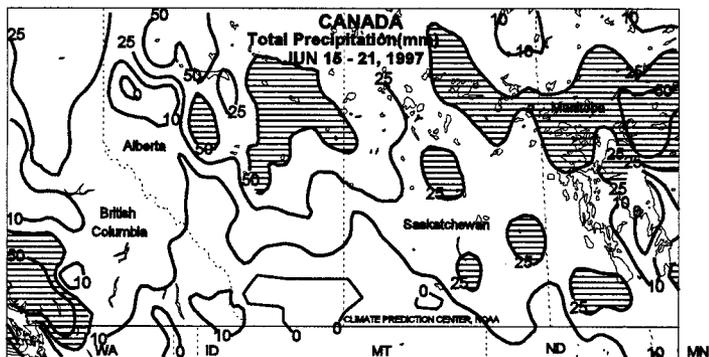


EUROPE



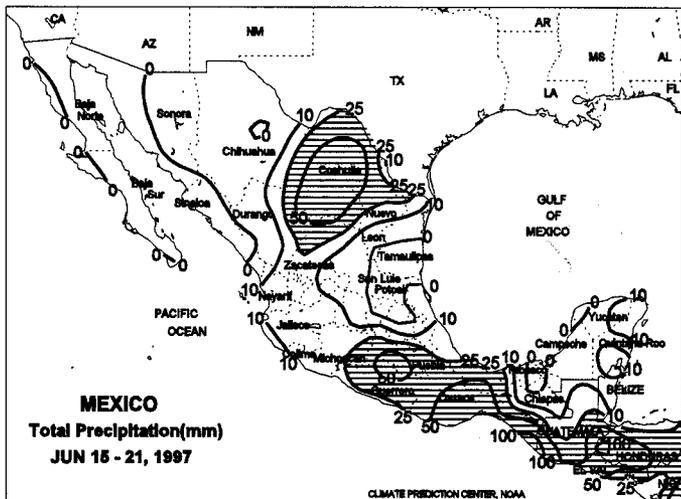
Light to moderate rain (10-48 mm, with local amounts in excess of 50 mm) spread from the United Kingdom and France, eastward through Germany, into Poland, the Czech Republic, Slovakia, and Hungary. The precipitation maintained favorable moisture conditions for winter grains in the filling stages and was timely for spring grains in or nearing the heading stage. Weekly temperatures averaged 2 to 4 degrees C below normal in these areas slowing crop development. Farther south, dry weather prevailed over Spain and peninsular Italy, aiding winter wheat harvesting. Elsewhere, in northern Italy, wet weather (25-70 mm, with local amounts in excess of 70 mm) continued to boost soil moisture reserves for summer crops but slowed winter grain maturation. In southeastern Europe, hot weather in southern Romania, eastern former Yugoslavia, and Bulgaria hastened maturity in winter grains and promoted rapid summer crop development. Maximum temperatures ranging from 30 to 35 degrees C persisted in these areas throughout the week, but were accompanied by scattered showers that produced variable amounts of rainfall (2-24 mm). Farther south, hot weather (maximum temperatures ranging from 35-41 degrees C) in Greece favored cotton development but increased irrigation requirements.

CANADA



Widespread showers (10-50 mm or more) covered the northern and eastern Prairies. The rain was welcomed in eastern Saskatchewan and Manitoba, bringing some relief from recent periods of heat and dryness. A drying trend in the southwestern Prairies is also raising some concern for spring grains, generally in the tillering stage across the southern Prairies. In contrast, the persistent rain across Alberta's northern crop areas continued to hamper agricultural activities such as spraying. Any unplanted acreage will at this point in the season likely remain so. Farther east, heavy rain (25-50 mm or more) soaked crops in Ontario and Quebec following just 1 week of favorable dryness.

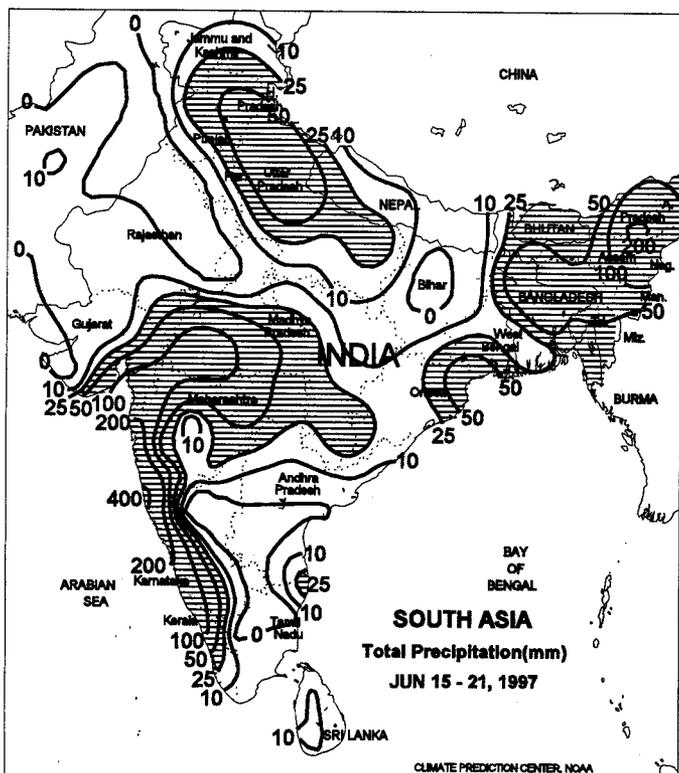
MEXICO



Moderate showers (10-50 mm) fell across most of the main corn belt, increasing soil moisture for vegetative corn. Hot, dry weather (temperatures 3-4 degrees C above normal) stressed summer crops across east-central Mexico (Hidalgo, northern Puebla, Guanajuato, and northern Veracruz). Moderate to heavy showers (30-80 mm) continued to boost reservoir levels across north-central Mexico (Coahuila, western Nuevo Leon, northern Zacatecas, and eastern Durango).

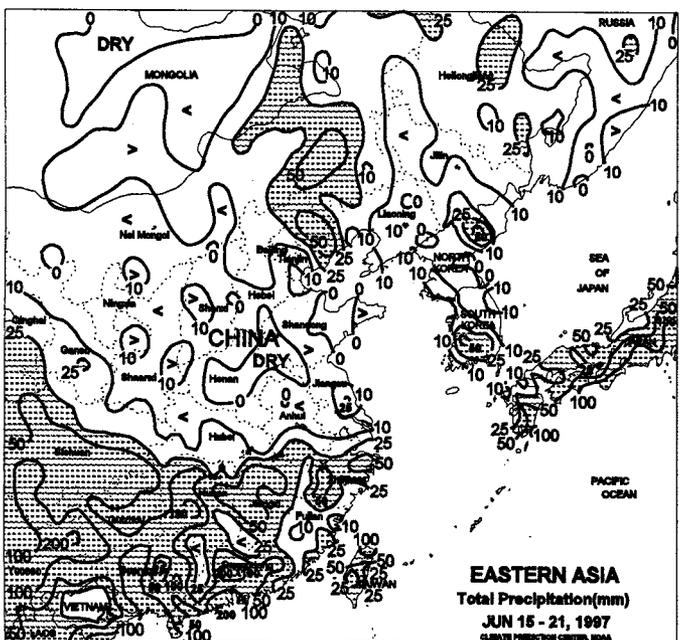
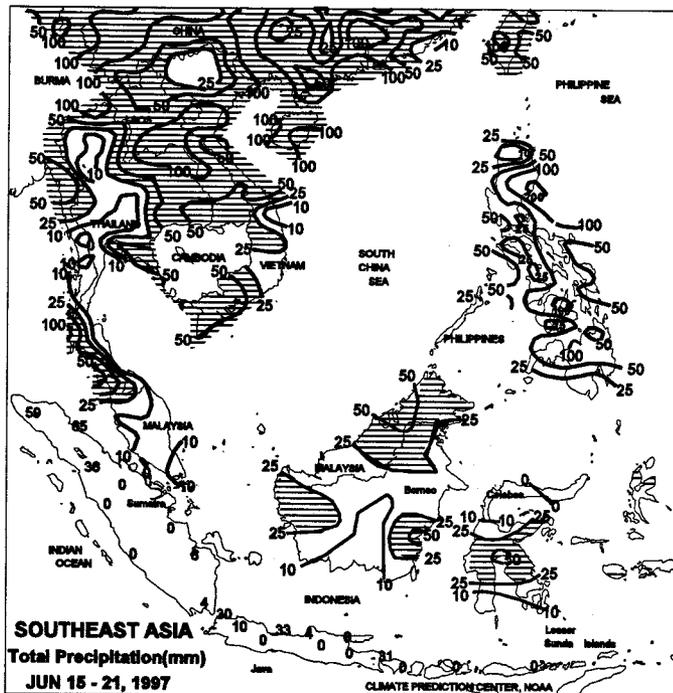
SOUTH ASIA

The monsoon continued its northward, albeit erratic progress, bringing beneficial showers (49-116 mm) to a large section of the soybean belt in west-central India. However, Gujarat, an important groundnut and cotton producer, remained generally hot and dry, precluding planting. In southern India, very heavy rain (100-400 mm or more) continued along the southwest coast, but dryness covered sections of the southern interior. Unseasonable heat in Andhra Pradesh, another important groundnut and cotton area, reduced topsoil moisture for planting. Elsewhere, beneficial rain (25-116 mm) continued throughout major rice areas of the east as well as patchy locations across the north. While this week's rain in the east spread into rainfed rice areas of Orissa, much of east-central India's rainfed cropland awaits planting rains.



SOUTHEAST ASIA

Timely showers (40-80 mm) fell across eastern Thailand, easing dryness and benefiting rice. Lighter amounts (less than 25 mm) were common across western and central Thailand and along with warm weather (2-3 degrees C above normal) reduced moisture supplies. While this moisture is favorable across these regions, much more rain is needed. In the Philippines, widespread showers (40-100 mm) favored main-season crops, especially across the central islands. Seasonable showers (30-100 mm) maintained favorable moisture supplies for rice in Vietnam. Mostly dry weather continued across eastern peninsular Malaysia, reducing moisture for oil palm. Dry weather favored late main-season rice harvesting across southern and eastern Java, which is nearing completion.



EASTERN ASIA

In the North China Plain, hot, mostly dry weather stressed rainfed summer crops but favored winter wheat harvesting. By week's end, maximum temperatures ranged from 37 to 40 degrees C (weekly temperatures averaged 2-4 degrees C above normal), further reducing available moisture supplies. Widespread rain is needed to prevent losses in yield potential. Light to moderate rain (10-40 mm) covered Manchuria, offsetting above-normal temperatures (2-6 degrees C above normal). Soil moisture should be adequate for summer crops in Manchuria. Showers (25-75 mm) maintained moisture supplies for rice across the Yangtze Valley and southern China. Locally heavy showers (greater than 150 mm) caused isolated flooding in the southern province of Guangdong. Mostly dry weather prevailed across North Korea, while moderate rain (15-50 mm) maintained moisture supplies across South Korea. In Japan, Typhoon Opal hit central Honshu just west of Tokyo on June 20, with sustained winds of 65 knots (75 mph). The storm contributed to widespread rain (30-75 mm) across Japan and heavier rain (100-160 mm) near landfall. Only minimal damage to rice is expected from the storm.

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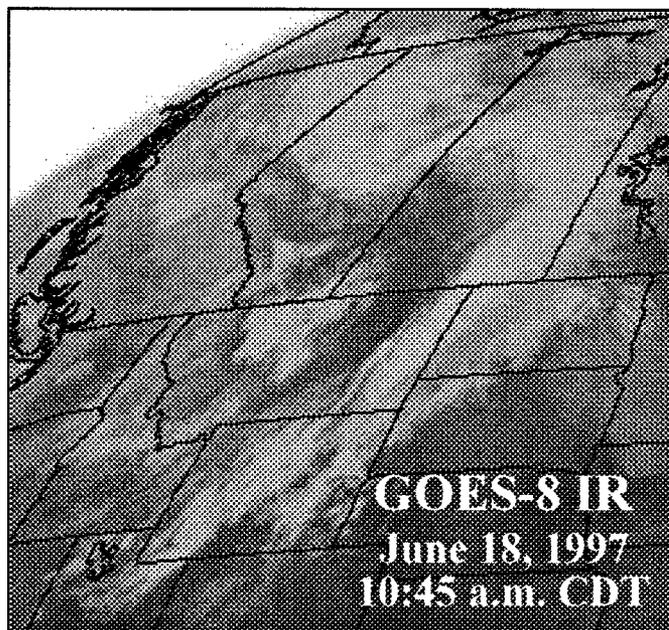
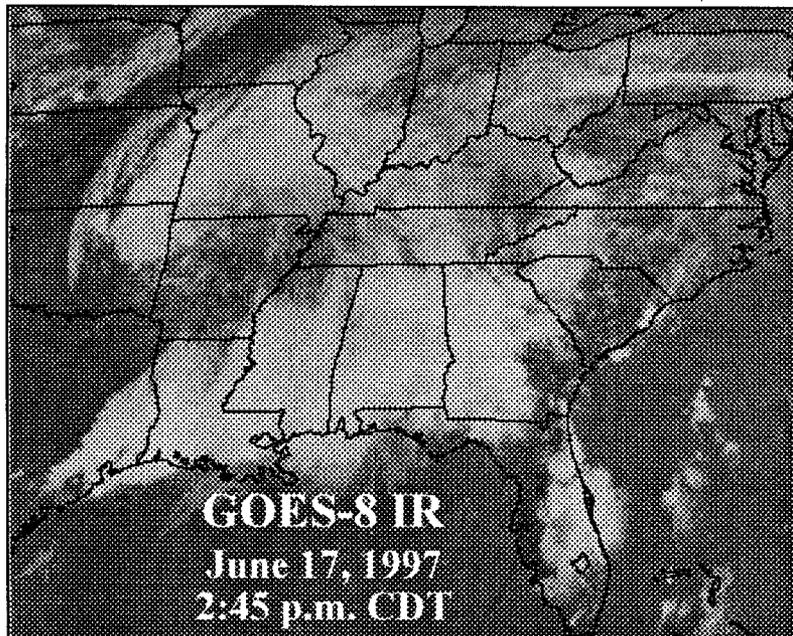
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Wet weather continues to plague the Ohio and Tennessee Valleys and the Southeast (left), but much-needed showers dampen the northern Plains (right).

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OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300