

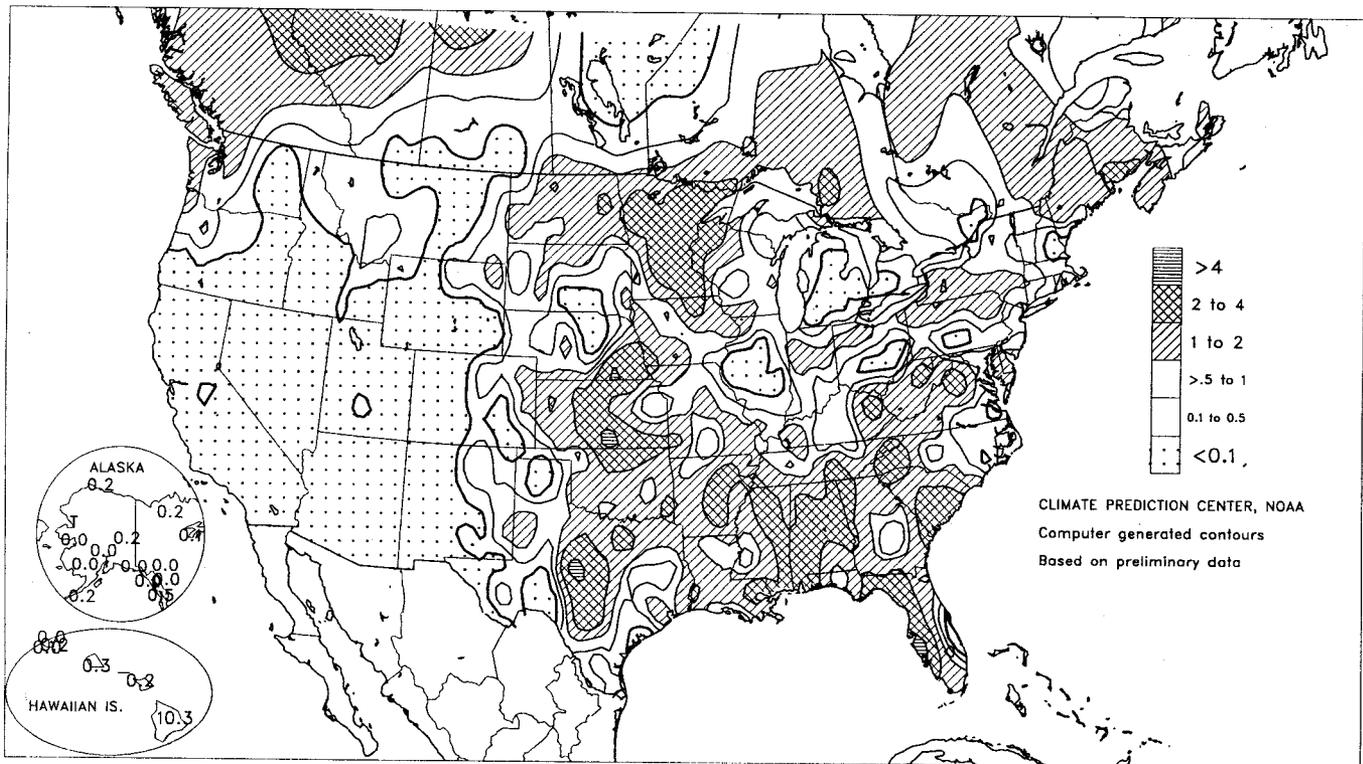
WEEKLY WEATHER AND CROP BULLETIN

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 22 - 28, 1997



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

HIGHLIGHTS

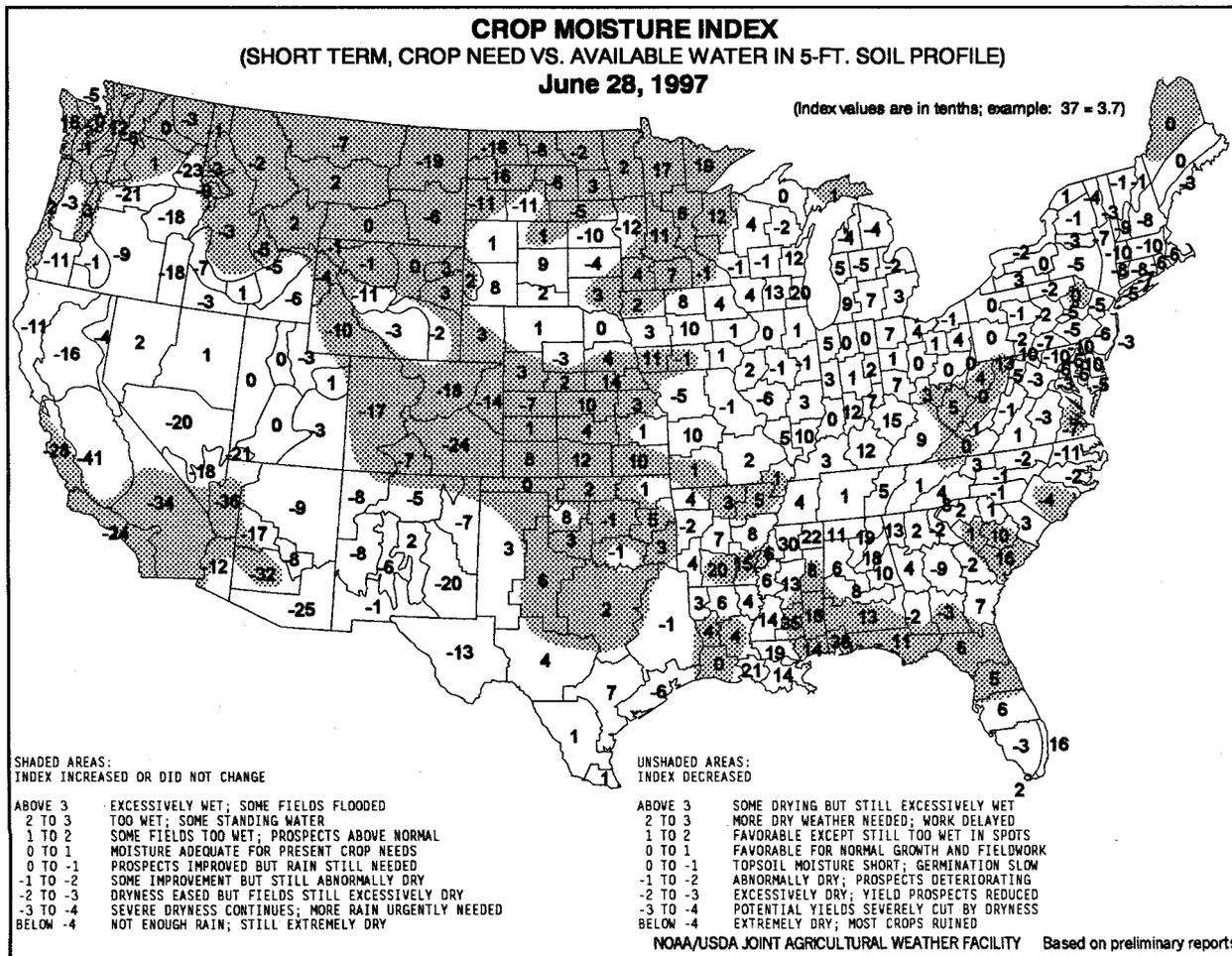
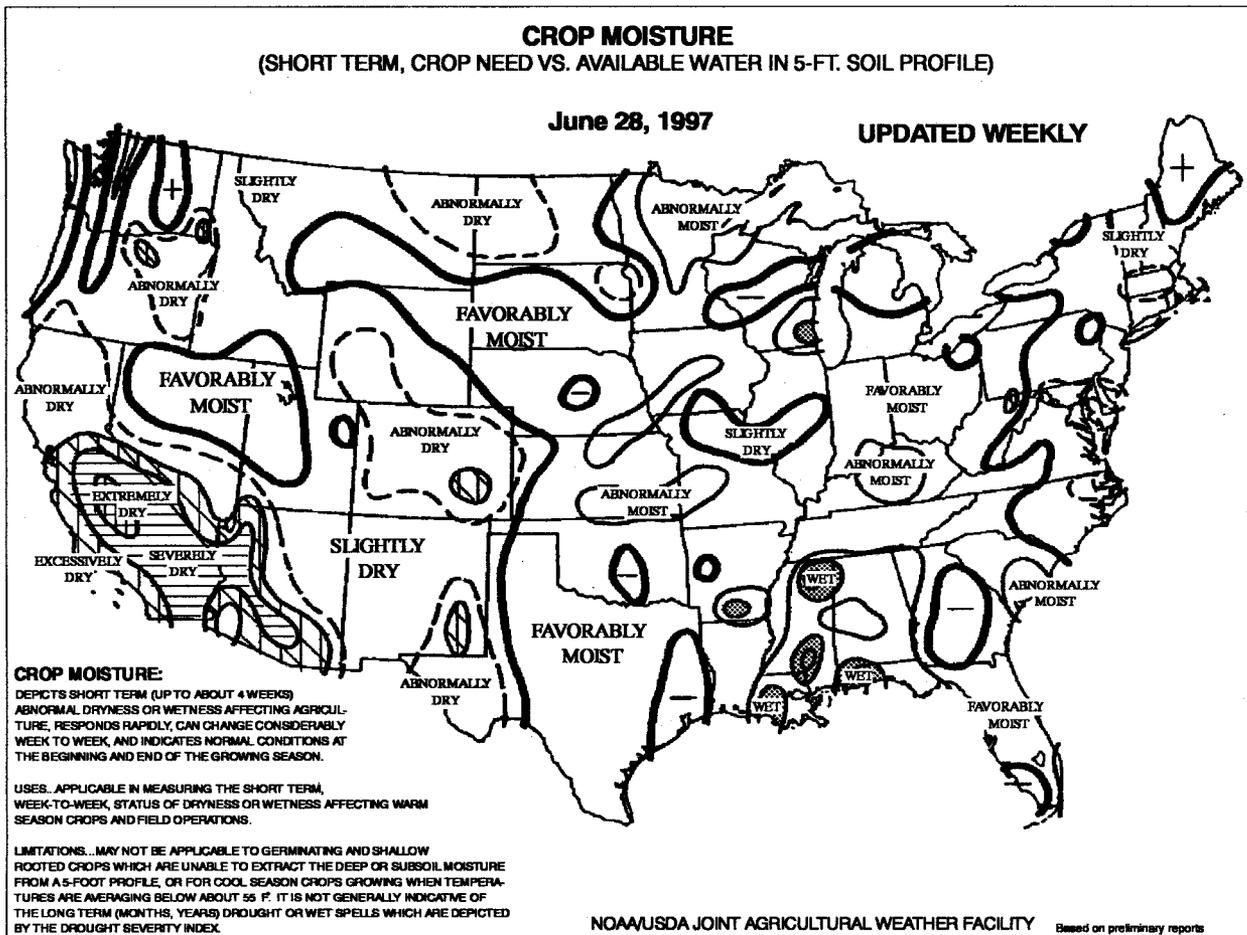
June 22 - 28, 1997

Nearly ideal growing conditions dominated areas from the northern Plains to the Ohio Valley, as favorable soil moisture accompanied beneficial warmth (weekly temperatures 2 to 6°F above normal). Much-needed significant rainfall eased short-term dryness across the northern Plains and upper Midwest, while ample sunshine and only scattered showers permitted soils to dry in the eastern Corn Belt and Ohio Valley. Frequent rains continued, however, across the Southeast, perpetuating a 6-week trend, while occasional thunderstorms caused some winter wheat harvest delays on the central and southern Plains. Cool weather (temperatures up to 6°F below normal), accompanied by some rain, prevailed in Texas and the Northwest.

(Continued on page 3)

Contents

Crop Moisture Maps	2
Temperature Departure & Extreme Maximum Temperature Maps	3
Growing Degree Day Maps	4
National Weather Data for Selected Cities	6
National Agricultural Summary	9
Crop Progress and Condition Tables	10
State Agricultural Summaries	13
International Weather and Crop Summary	19
ENSO Update: Strong El Niño	23
Subscription Information & Pan Evaporation Map	24



(Continued from front cover)

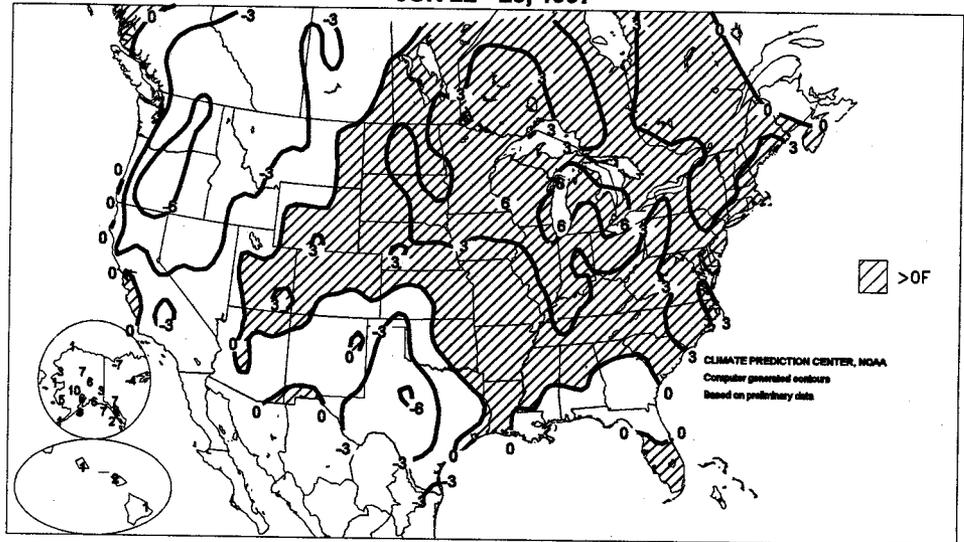
Early in the week, cool air invaded the Northwest. On Sunday, lows of 32°F in Redmond, OR and 37°F in Yakima, WA were among a half-dozen daily-record lows. Two days later, Pocatello, ID recorded 33°F. Meanwhile, torrential rainfall ended in southeastern Wisconsin (9.78 inches on June 20-21 in Brown Deer) and central Texas (18.00 inches in 24 hours on June 21-22 west of Austin). Record flooding ensued on the Menomonee River at Wauwatosa, WI (2.7 feet above the April 21, 1973, high-water mark), and on the Llano River at Llano, TX (6.0 feet above the September 10, 1952, record).

Heat overspread the Great Lakes States and Midwest on Tuesday, producing a handful of daily-record highs. Alpena, MI recorded 97°F. A day later, heat peaked along the East Coast as highs soared to 100°F at Washington National Airport, VA and 98°F in Harrisburg, PA. Late in the week, locally heavy thunderstorms tempered the heat across the East and Southeast, boosting weekly rainfall above 3 inches in locations such as Meridian, MS and Charleston, SC. Charleston collected a daily-record rainfall of 3.02 inches on Saturday, and Asheville, NC received a 24-hour, June-record total of 4.36 inches on June 26-27.

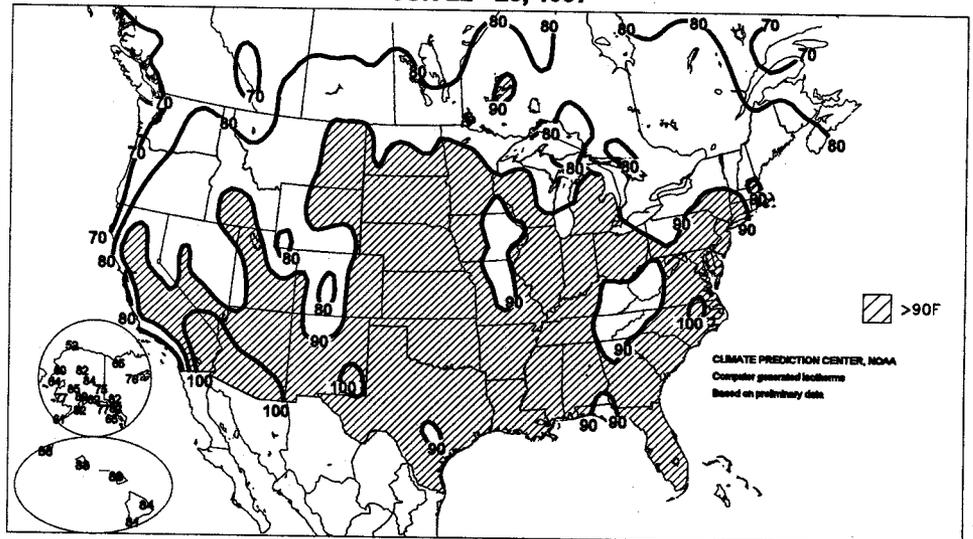
Earlier in the week, rainfall topped 2 inches in many areas from northern Oklahoma to eastern North Dakota, Minnesota, and northwestern Wisconsin. In Lincoln, NE, weekly rainfall of 3.45 inches accounted for nearly 30 percent of their year-to-date total. Along the North Dakota-Minnesota border, June rainfall in the Red River Valley improved to 4.85 inches (184 percent of normal) in Fargo and 2.92 inches (110 percent of normal) in Grand Forks. Farther west, however, June rainfall through the 28th stood at only 0.41 inches (19 percent of normal) in Williston, ND and 0.72 inches (37 percent of normal) in Glasgow, MT.

Very warm weather cloaked Alaska (1 to 10°F above normal) and Hawaii (1 to 2°F above normal) during the week. On Thursday, a high of 88°F in Valdez, AK was their highest ever in June (formerly 87°F in 1953). In Juneau, AK, a maxi-

Departure of Average Temperature from Normal (°F)
JUN 22 - 28, 1997



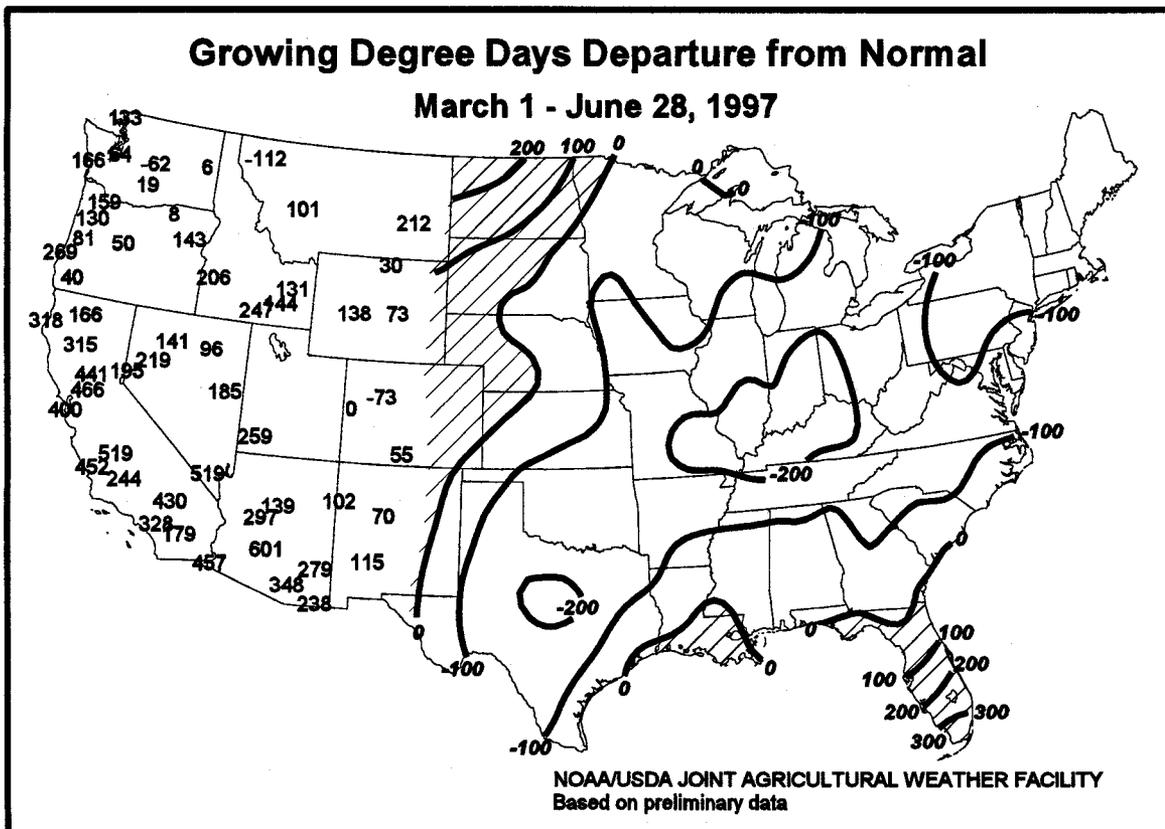
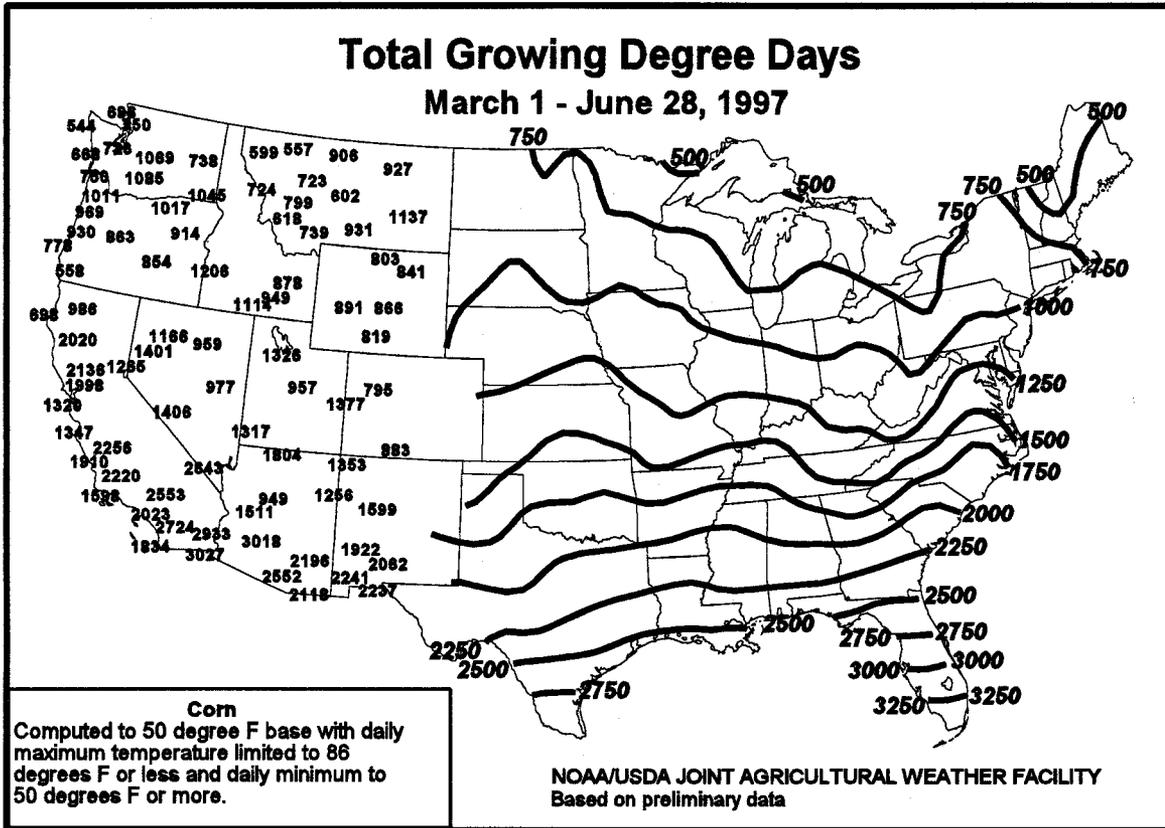
Extreme Maximum Temperature (°F)
JUN 22 - 28, 1997

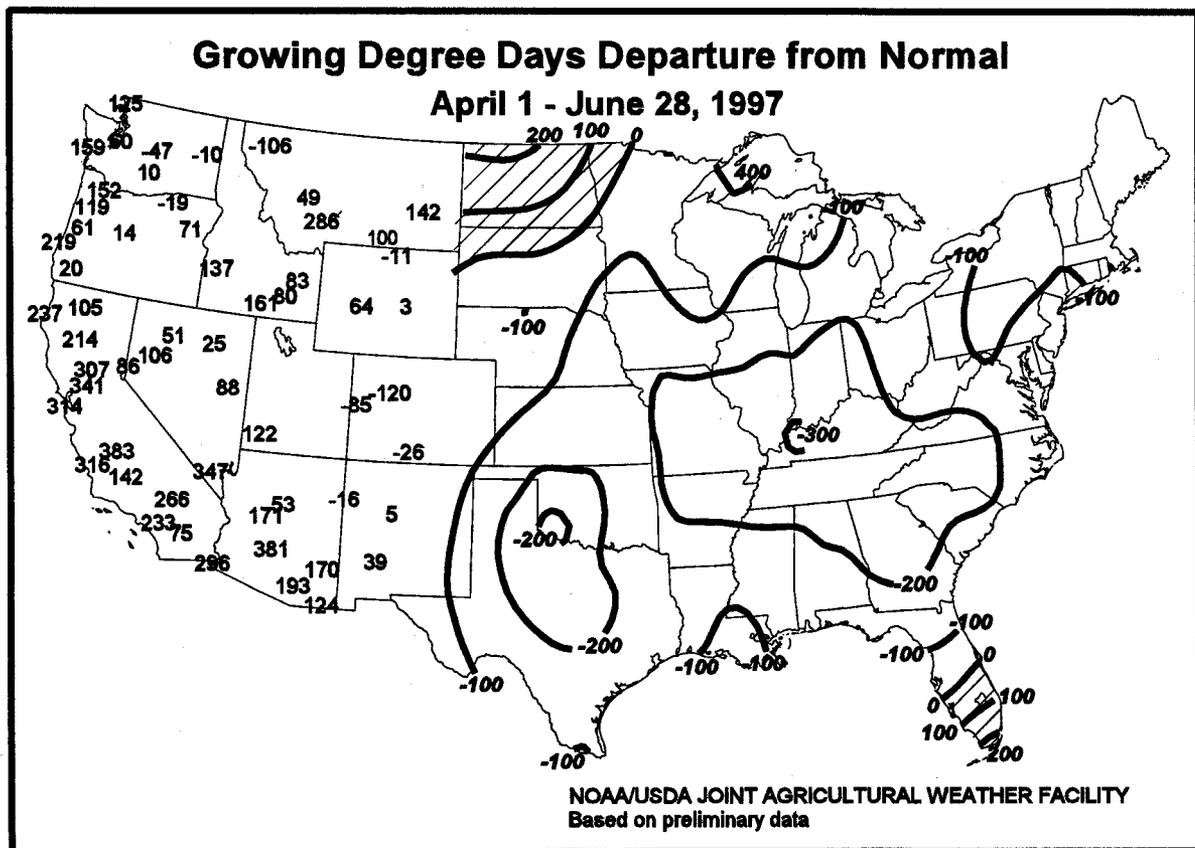
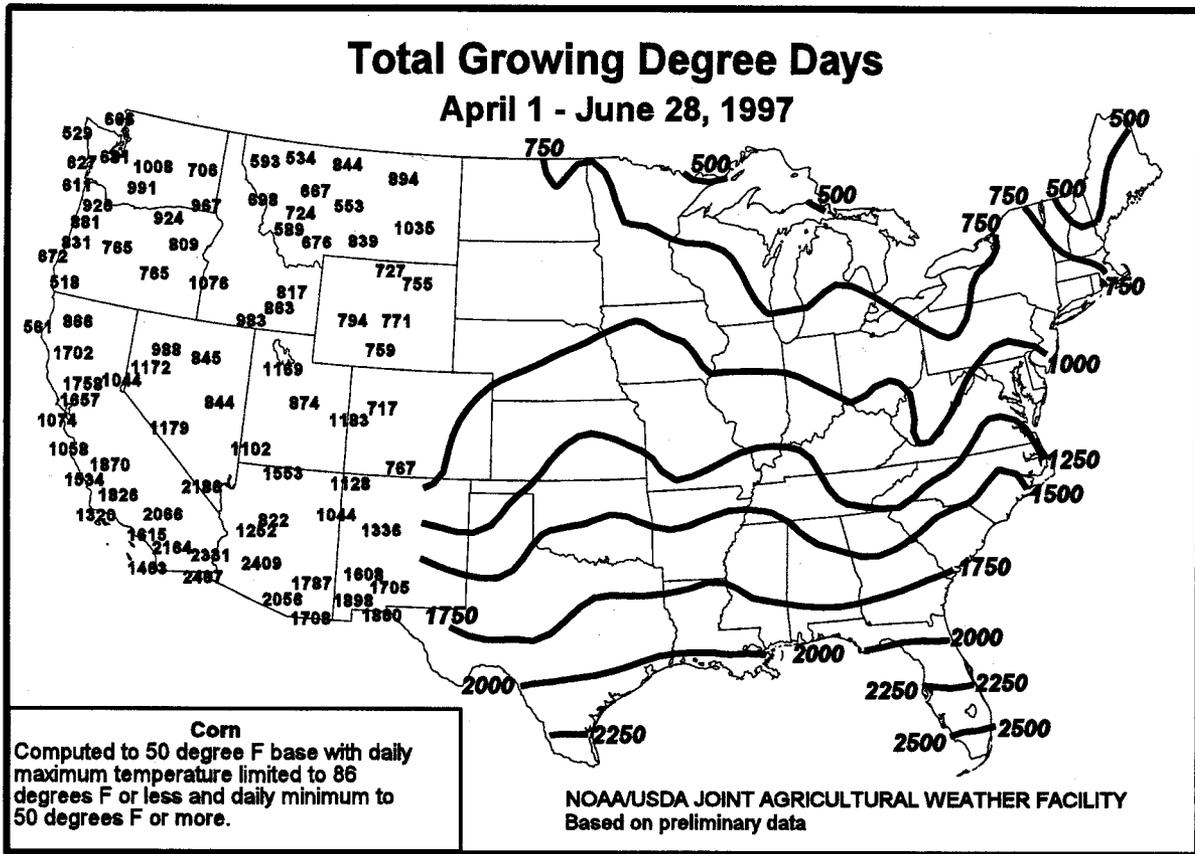


mum of 82°F on Sunday was their highest reading since June 20, 1991 (84°F). On the east slopes of Hawaii's Big Island, heavy rain fell in addition to the warmth. Hilo received 10.32 inches, boosting their June rainfall above 20 inches (355 percent of normal).

90-Degree Heat Finally Returns

In mid- to late-June, 90-degree heat finally edged into much of the central and eastern United States. In Jackson, MS, a reading of 90°F on June 20 represented their latest such occurrence, surpassing the record set on June 19, 1974. Shreveport, LA tallied their first 90-degree maximum of the year on June 15, tying 1976 for the latest date on record. On June 24, a record-setting, 400-day streak of sub-90-degree weather ended in Charleston, WV. In Wisconsin, 90-degree heat in Milwaukee and Madison on June 24 was the locations' first since August 7 and June 29, 1996, respectively. During 1996, Madison recorded 90°F or greater only twice, on June 28 and 29. Other cities registering their first day of 90-degree heat included Memphis, TN (June 22), Chicago, IL (June 23), and Springfield, MO (June 24). In South Dakota, Sioux Falls' maximum of 96°F on June 28 was their first 90-degree reading of the year and highest since August 18, 1995. Similarly in New York, Albany's maximum of 94°F on June 21 was their highest since July 14, 1995. Albany's only 90-degree day last year occurred on May 20. Incidentally, Logan, IA notched a high of 100°F on June 19, the State's first triple-digit heat since July 28, 1995.





National Weather Data for Selected Cities

Weather Data for the Week Ending June 28, 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	80 AND ABOVE	82 AND BELOW	TEMP. °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE	01 INCH OR MORE	50 INCH OR MORE
AL BIRMINGHAM	88	68	93	57	78	0	1.16	0.26	-	5.30	154	29.14	100	97	82	2	0	-	-	-	-
HUNTSVILLE	88	70	92	67	79	2	0.13	-0.84	0.12	4.50	117	31.08	102	96	56	2	0	2	0	2	0
MOBILE	87	72	93	71	80	-2	4.56	3.33	3.07	8.37	179	39.62	123	96	66	2	0	5	3	0	0
AK MONTGOMERY	87	70	92	68	79	-1	1.36	0.36	0.89	4.30	119	28.12	99	96	67	3	0	4	1	0	1
ANCHORAGE	73	52	80	49	63	6	0.02	-0.29	0.02	0.61	58	2.61	56	87	51	0	0	1	0	0	0
BARROW	42	33	52	29	38	1	0.24	0.14	0.24	0.32	133	0.57	59	98	84	0	4	1	0	0	0
FAIRBANKS	80	56	84	51	68	6	0.15	-0.22	0.08	0.33	26	1.07	31	73	30	0	0	2	0	0	0
JUNEAU	71	54	82	52	63	8	-	-	-	-	-	-	-	91	54	0	0	-	-	-	-
KODIAK	70	51	82	44	61	9	0.00	-1.02	0.00	0.54	12	33.25	106	74	51	0	0	0	0	0	0
NOME	57	43	64	36	50	1	0.00	-0.33	0.00	0.05	5	4.11	96	86	68	0	0	0	0	0	0
AZ FLAGSTAFF	80	40	82	37	60	-3	0.00	-0.20	0.00	0.08	26	6.27	68	45	12	0	0	0	0	0	0
PHOENIX	104	77	106	74	91	0	0.00	-0.06	0.00	0.00	0	1.70	63	21	9	7	0	0	0	0	0
PRESCOTT	90	55	93	51	72	2	0.00	-0.23	0.00	0.11	30	4.43	67	28	11	4	0	0	0	0	0
TUCSON	101	69	103	66	86	-1	0.00	-0.15	0.00	0.02	10	2.54	86	19	8	7	0	0	0	0	0
YUMA	103	78	107	72	90	0	0.00	-0.01	0.00	0.20	2000	0.75	77	33	11	7	0	0	0	0	0
AR FORT SMITH	90	69	93	68	80	1	0.61	-0.08	0.61	3.81	119	20.26	97	91	57	6	0	1	1	1	1
LITTLE ROCK	93	72	95	70	83	2	2.51	1.74	1.29	5.31	174	32.40	129	92	51	7	0	-	-	-	-
CA BAKERSFIELD	90	61	97	58	76	-5	0.00	-0.03	0.00	0.00	0	2.99	78	56	21	4	0	0	0	0	0
EUREKA	64	50	66	46	57	1	0.00	-0.07	0.00	1.00	204	19.07	91	89	55	0	0	0	0	0	0
FRESNO	91	61	99	58	76	-3	0.00	0.00	0.00	0.01	14	3.52	51	58	20	4	0	0	0	0	0
LOS ANGELES	75	63	78	62	69	2	0.00	0.00	0.00	0.00	0	4.21	54	83	63	0	0	0	0	0	0
REDDING	89	60	98	57	75	-4	0.00	-0.09	0.00	1.58	293	16.60	88	57	17	3	0	0	0	0	0
SACRAMENTO	90	59	100	55	74	-1	0.00	-	0.00	0.61	-	9.26	-	74	20	3	0	0	0	0	0
SAN DIEGO	70	64	72	63	67	-1	0.00	0.00	0.00	0.00	0	3.54	57	77	62	0	0	0	0	0	0
SAN FRANCISCO	70	54	77	52	62	-1	0.00	-0.03	0.00	0.18	184	8.72	71	85	51	0	0	0	0	0	0
CO ALAMOSA	81	41	86	38	61	-1	0.00	-0.18	0.00	0.80	131	3.04	112	82	15	0	0	0	0	0	0
COLORADO	82	53	87	51	67	0	0.08	-0.47	0.05	5.39	259	10.65	151	77	27	0	0	3	0	0	0
DENVER	88	58	95	50	73	3	0.50	0.11	0.22	2.54	162	6.28	77	66	23	3	0	3	0	3	0
GRAND JUNCTION	93	60	97	53	76	1	0.00	-0.11	0.00	0.29	82	5.17	129	35	17	6	0	0	0	0	0
PUEBLO	93	53	97	49	73	-1	0.10	-0.23	0.06	2.16	189	5.83	125	83	17	6	0	2	0	2	0
CT BRIDGEPORT	83	65	86	62	74	4	0.26	-0.55	0.13	1.48	46	17.91	85	83	47	0	0	2	0	2	0
HARTFORD	86	61	94	52	74	3	0.97	0.14	0.75	1.91	54	15.85	73	81	44	2	0	3	1	1	1
DC WASHINGTON	94	71	100	66	83	5	0.27	-0.53	0.26	2.93	98	17.89	99	80	36	7	0	2	0	2	0
DE WILMINGTON	90	66	95	60	78	4	0.14	-0.71	0.14	1.78	54	11.24	56	82	34	3	0	1	0	1	0
FL DAYTONA BEACH	89	71	91	70	80	0	0.90	-0.56	0.84	6.42	115	18.29	91	96	58	2	0	3	1	1	1
JACKSONVILLE	90	71	92	68	81	0	2.09	0.71	1.27	5.61	106	19.67	87	96	57	5	0	4	2	2	2
KEY WEST	87	80	88	78	83	0	0.40	-0.76	0.33	4.84	101	14.22	92	78	67	0	0	5	0	5	0
MIAMI	89	77	92	74	83	1	0.51	-1.58	0.33	12.67	145	32.95	136	86	60	3	0	4	0	4	0
ORLANDO	91	72	93	71	82	0	0.61	-1.24	0.27	4.14	61	18.32	89	98	54	6	0	5	0	5	0
TAMPA	92	74	94	73	83	1	1.25	-0.16	0.56	1.45	29	16.73	96	90	52	7	0	5	1	1	1
VALPARAISO/EGLIN	87	74	90	72	81	0	0.86	-0.66	0.35	2.03	40	30.01	106	95	63	1	0	5	0	5	0
WEST PALM BEACH	88	75	89	72	82	0	0.18	-1.67	0.18	11.03	146	31.31	122	89	66	0	0	1	0	1	0
GA ATHENS	87	69	90	65	78	0	1.32	0.37	1.06	4.95	136	24.25	92	99	63	1	0	2	1	1	1
ATLANTA	86	69	89	65	77	0	0.49	-0.39	0.40	3.62	110	26.02	96	96	60	0	0	3	0	3	0
AUGUSTA	89	69	92	67	79	0	0.81	-0.17	0.50	3.67	95	19.42	81	98	56	4	0	5	1	1	1
COLUMBUS	88	71	92	70	80	-2	2.70	1.67	1.61	5.85	158	29.31	103	93	59	1	0	4	2	2	2
MACON	89	69	92	67	79	-1	0.65	-0.22	0.39	1.63	49	20.80	85	99	58	4	0	4	0	4	0
SAVANNAH	89	71	92	69	80	0	0.73	-0.67	0.41	6.04	115	19.27	84	98	60	4	0	3	0	3	0
HI HILO	83	71	84	68	77	1	10.32	8.82	4.89	20.37	355	66.57	102	95	72	0	0	7	5	5	5
HONOLULU	87	75	88	73	81	1	0.25	0.14	0.16	0.40	82	14.80	133	80	57	0	0	3	0	3	0
KAHULUI	87	73	86	68	80	2	-	-	-	-	-	-	-	90	61	0	0	-	-	-	-
LIHUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ID BOISE	81	51	89	46	66	-3	0.00	-0.16	0.00	1.04	135	7.46	108	62	19	0	0	0	0	0	0
LEWISTON	77	51	90	45	64	-6	0.02	-0.24	0.02	0.61	52	9.26	135	67	29	1	0	1	0	1	0
POCATELLO	79	44	89	32	62	-4	0.00	-0.20	0.00	1.47	153	6.19	92	71	22	0	1	0	0	0	0
IL CHICAGO/O'HARE	88	66	93	59	77	6	0.41	-0.47	0.41	2.90	83	14.47	90	86	43	2	0	1	0	1	0
MOLINE	88	65	92	59	77	3	0.12	-0.91	0.12	2.92	74	16.73	93	88	47	2	0	1	0	1	0
PEORIA	89	66	94	61	78	4	0.02	-0.94	0.02	1.27	34	14.03	82	85	44	2	0	1	0	1	0
ROCKFORD	86	65	92	58	76	5	0.60	-0.47	0.59	3.87	92	16.87	103	88	46	2	0	2	1	1	1
SPRINGFIELD	88	67	93	61	78	2	0.49	-0.31	0.47	1.10	34	10.84	84	93	49	2	0	2	1	1	1
IN EVANSVILLE	89	71	92	68	80	3	0.00	-0.79	0.00	5.43	167	30.67	136	87	50	3	0	0	0	0	0
FORT WAYNE	87	65	93	57	76	4	0.71	-0.12	0.61	3.29	99	19.56	118	95	47	3	0	4	1	1	1
INDIANAPOLIS	85	66	89	61	76	2	0.61	-0.23	0.58	3.09	95	22.02									

Weather Data for the Week Ending June 28, 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	80 AND ABOVE	92 AND BELOW	.01 INCH OR MORE		
																		TEMP, °F	PRECIP.	
KY WICHITA	88	67	92	64	77	-1	1.82	0.86	1.08	4.27	105	15.85	110	87	49	4	0	5	1	
JACKSON	84	67	88	64	76	2	0.79	-0.23	0.79	7.34	186	29.59	119	92	60	0	0	1	1	
LEXINGTON	86	66	89	61	76	2	0.17	-0.72	0.17	7.97	235	40.69	183	98	59	0	0	1	0	
LOUISVILLE	88	71	92	67	80	4	0.17	-0.64	0.16	7.33	228	41.30	180	94	58	3	0	2	0	
PADUCAH	89	70	93	68	79	2	0.59	-0.33	0.33	4.18	111	32.51	128	95	56	2	0	3	0	
LA BATON ROUGE	89	73	94	71	81	-1	1.86	0.51	1.56	7.88	191	41.91	141	97	82	4	0	2	1	
LAKE CHARLES	91	74	93	71	82	1	0.15	-0.98	0.09	1.89	41	34.89	139	96	57	6	0	3	0	
NEW ORLEANS	87	75	91	74	81	0	1.25	-0.18	0.45	6.54	120	30.48	100	91	60	2	0	5	0	
SHREVEPORT	91	71	94	70	81	0	2.43	1.49	0.92	5.36	133	41.82	171	96	58	5	0	5	3	
ME CARIBOU	73	51	83	45	62	-1	1.70	0.98	0.65	4.33	161	18.46	123	96	50	0	0	4	2	
ME PORTLAND	83	57	91	54	70	5	0.00	-0.78	0.00	0.77	24	17.03	79	85	39	1	0	0	0	
MD BALTIMORE	94	64	99	58	79	4	0.64	-0.21	0.64	3.17	92	19.32	98	96	35	5	0	1	1	
MA BOSTON	85	67	94	64	78	6	0.33	-0.37	0.33	1.41	49	15.19	74	73	43	1	0	1	0	
MA WORCESTER	80	63	88	60	72	5	0.02	-0.86	0.02	1.41	39	18.68	81	80	50	0	0	1	0	
MI ALPENA	86	52	97	48	69	5	0.06	-0.66	0.03	0.42	15	13.48	105	93	38	1	0	2	0	
MI GRAND RAPIDS	85	63	90	55	74	5	0.03	-0.82	0.02	2.55	74	15.47	98	95	51	1	0	2	0	
MI HOUGHTON LAKE	84	57	89	50	71	6	0.24	-0.45	0.12	1.28	46	11.79	96	95	41	0	0	3	0	
MI LANSING	86	60	89	49	73	4	0.14	-0.71	0.12	1.82	47	13.63	97	90	46	0	0	2	0	
MI MARQUETTE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MI MUSKEGON	82	60	88	53	71	3	0.01	-0.51	0.01	3.01	137	13.37	95	91	49	0	0	1	0	
MN DULUTH	75	54	84	48	65	2	1.61	0.70	0.90	3.18	89	9.02	71	90	55	0	0	3	2	
MN INTL. FALLS	77	55	89	47	68	2	0.77	-0.19	0.58	1.77	48	6.61	64	94	56	0	0	4	1	
MN MINNEAPOLIS	86	63	94	54	75	4	2.06	1.12	1.04	3.15	83	8.90	67	87	44	1	0	3	2	
MN ROCHESTER	82	62	85	55	72	3	1.27	0.37	0.94	2.56	74	12.05	93	90	52	0	0	3	1	
MN ST. CLOUD	85	60	95	53	73	5	1.52	0.47	0.94	2.55	59	7.63	61	88	45	1	0	4	1	
MS JACKSON	90	71	92	69	80	0	0.83	0.09	0.63	8.09	274	36.09	123	98	60	5	0	4	1	
MS MERIDIAN	87	70	91	68	78	-1	3.04	2.13	1.27	5.21	156	35.75	117	99	72	3	0	5	3	
MS TUPELO	89	70	93	67	80	1	2.02	1.17	1.58	10.80	300	41.21	136	98	59	3	0	5	1	
MO COLUMBIA	86	66	89	64	76	2	1.44	0.50	0.75	3.19	79	20.72	107	97	60	0	0	5	1	
MO KANSAS CITY	87	68	91	65	78	2	0.79	-0.27	0.63	2.54	57	16.00	93	91	54	2	0	2	1	
MO SAINT LOUIS	89	71	94	67	80	2	0.24	-0.63	0.23	2.04	59	17.43	95	89	50	3	0	2	0	
MO SPRINGFIELD	86	67	90	63	77	1	1.31	0.20	0.67	3.42	72	20.08	95	95	55	1	0	3	1	
MT BILLINGS	78	52	90	47	65	-3	0.00	-0.39	0.00	0.82	43	4.89	55	78	41	1	0	0	0	
MT BUTTE	71	37	85	31	54	-5	0.13	-0.33	0.06	3.10	153	11.24	173	92	30	0	2	3	0	
MT GLASGOW	83	53	96	44	68	1	0.05	-0.43	0.03	0.72	37	4.17	78	68	21	1	0	3	0	
MT GREAT FALLS	75	45	88	37	60	-4	0.08	-0.40	0.07	2.80	123	7.77	88	77	31	0	0	2	0	
MT KALISPELL	68	40	78	33	54	-6	0.47	0.00	0.39	2.56	122	11.00	127	96	38	0	0	2	0	
MT MILES CITY	86	55	95	49	71	1	0.37	-0.24	0.23	1.06	40	4.60	59	65	22	4	0	3	0	
MT MISSOULA	72	42	80	35	57	-5	0.16	-0.21	0.11	1.87	111	9.32	125	75	30	0	0	3	0	
NE GRAND ISLAND	87	65	92	59	78	2	0.05	-0.80	0.05	3.47	94	9.89	74	96	53	3	0	1	0	
NE LINCOLN	87	67	92	62	77	2	3.45	2.58	2.04	4.22	116	11.52	84	92	54	2	0	3	2	
NE NORFOLK	87	65	94	54	76	3	0.38	-0.63	0.25	1.58	38	9.02	68	93	48	3	0	2	0	
NE NORTH PLATTE	87	60	94	51	74	3	0.24	-0.53	0.22	2.59	82	5.27	50	94	38	3	0	2	0	
NE OMAHA	88	67	94	61	78	3	1.02	0.17	-	3.06	84	9.31	65	91	50	3	0	-	-	
NE SCOTTSBLUFF	86	57	96	47	71	1	0.48	-0.10	0.47	3.36	135	13.41	151	87	35	2	0	2	0	
NE VALENTINE	86	57	98	46	71	0	0.56	-0.10	0.31	2.94	109	9.59	104	85	45	2	0	4	0	
NV ELY	82	45	87	36	64	1	0.00	-0.19	0.00	1.79	216	5.45	102	42	10	0	0	0	0	
NV LAS VEGAS	99	75	102	72	87	-1	0.00	-0.03	0.00	0.00	0	0.24	12	19	12	7	0	0	0	
NV RENO	81	48	86	43	65	-3	0.00	-0.08	0.00	1.18	288	5.55	129	51	12	0	0	0	0	
NV WINNEMUCCA	83	43	90	36	63	-4	0.00	-0.17	0.00	2.02	249	5.17	111	55	12	1	0	0	0	
NH CONCORD	86	55	92	48	71	4	0.00	-0.74	0.00	0.75	25	14.92	89	83	35	2	0	0	0	
NJ NEWARK	90	69	97	64	80	5	0.04	-0.74	0.04	2.47	83	19.50	92	78	39	3	0	1	0	
NM ALBUQUERQUE	90	63	91	59	76	0	0.00	-0.18	0.00	1.03	194	3.88	130	46	11	5	0	0	0	
NY ALBANY	83	59	92	53	71	2	0.23	-0.60	0.12	0.74	22	11.49	66	88	47	1	0	3	0	
NY BINGHAMTON	78	59	87	53	69	2	0.98	0.13	0.50	3.03	90	14.57	84	91	56	0	0	3	1	
NY BUFFALO	80	62	84	55	71	2	1.17	0.36	0.93	3.05	92	19.97	117	89	53	0	0	2	1	
NY ROCHESTER	81	60	86	55	71	4	1.03	0.34	0.69	3.02	107	14.90	102	95	52	0	0	3	1	
NY SYRACUSE	82	60	90	54	71	3	0.41	-0.50	0.25	1.58	44	12.70	73	91	48	1	0	2	0	
NC ASHEVILLE	80	64	84	59	72	0	4.40	3.41	3.98	8.29	209	31.60	134	98	66	0	0	3	1	
NC CHARLOTTE	87	71	93	68	79	2	1.70	0.90	1.68	6.85	217	23.35	108	91	56	5	0	2	1	
NC GREENSBORO	87	68	92	65	77	3	0.15	-0.78	0.14	3.01	85	21.87	106	89	50	2	0	2	0	
NC HATTERAS	84	71	87	64	77	1	1.13	0.14	1.01	2.75	72	22.58	90	93	56	0	0	3	1	
NC RALEIGH	90	68	97	63	79	3	0.57	-0.28	0.48	3.83	111	20.21	97	94	47	5	0	3	0	
NC WILMINGTON	88	72	93	69	80	2	1.86	0.10	1.19	3.79	89	17.84	74	96	60	3	0	3	1	
ND BISMARCK	87	57	99	50	72	5	0.29	-0.34	0.24	0.57	22	6.51	81	82	36	3	0	3	0	
ND DICKINSON	81	55	88	47	68	2	0.88	-0.04	0.28	1.70	56	7.43	84	89	41	0	0	4	0	
ND FARGO	82	60	91	54	71	3	2.73	2.07	1.38	4.95	184	12.93	142	87	53	1	0	4	2	
ND GRAND FORKS	83	59	94	52	72	5	1.71	1.02	1.00	2.31	87	7.34	90	89	51	1	0	4	2	
ND JAMESTOWN	81	59	91	51	70	2	1.39	0.65	0.85	3.33	120	7.91	97	85	50	1	0	3	2	
ND WILLISTON	83	53	92	44	68	1	0.18	-0.35	0.16	0.41	19	2.28	32	77	27	2	0	2	0	
OH AKRON-CANTON	85	63	91	56	74	4	0.46	-0.30	0.35	3.85	131	17.47	100	85	46	1	0	2	0	
OH CINCINNATI	86	64	90	58	75	2	0.17	-0.73	0.14	7.14	200	26.24	124	91	53	2	0	3	0	
OH CLEVELAND	85	64	92	58	75	5	0.58	-0.27	0.50	3.28	96	17.65	103	85	48	2	0	2	1	
OH COLUMBUS	87	65	92	60	76	5	0.00	-0.98	0.00	5.55	147	20.58	111	87	44	2	0	0	0	
OH DAYTON	86	65	91	59	76	3	0.00	-0.88	0.00	2.00	56	17.39	93	85	45	1	0	0	0	

Weather Data for the Week Ending June 28, 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	32 AND BELOW	TEMP, °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE		
OK TOLEDO	87	66	93	60	76	6	0.23	-0.85	0.20	3.02	87	19.87	128	90	42	2	0	2	0		
OK YOUNGSTOWN	84	60	90	53	72	4	0.56	-0.38	0.48	4.12	112	14.71	84	91	45	1	0	2	0		
OK OKLAHOMA CITY	88	68	92	66	79	0	0.06	-0.82	0.03	2.41	69	13.72	78	92	53	3	0	2	0		
OK TULSA	89	71	93	69	80	0	1.53	0.62	1.45	3.84	92	14.87	73	89	56	4	0	2	1		
OR ASTORIA	85	52	67	50	58	0	1.00	0.52	0.46	4.07	179	45.85	133	94	65	0	0	5	0		
OR BURNS	76	38	84	27	58	-4	0.00	-0.17	0.00	0.26	32	5.80	112	77	24	0	2	0	0		
OR EUGENE	70	46	74	41	58	-6	0.29	0.03	0.26	1.13	82	22.12	86	93	48	0	0	2	0		
OR MEDFORD	79	48	86	44	64	-5	0.00	-0.10	0.00	0.36	64	8.94	97	78	26	0	0	0	0		
OR PENDELTON	77	48	86	40	62	-6	0.00	-0.12	0.00	0.75	123	4.63	74	72	28	0	0	0	0		
OR PORTLAND	70	53	75	52	62	-4	0.48	0.20	0.39	2.29	162	25.52	137	88	47	0	0	3	0		
PA SALEM	70	50	74	44	60	-3	0.26	0.00	0.20	1.21	96	25.79	128	91	48	0	0	3	0		
PA ALLENTOWN	87	61	94	54	74	2	0.16	-0.71	0.09	2.62	75	15.18	74	88	42	1	0	3	0		
PA ERIE	81	63	87	56	72	3	0.11	-0.83	0.09	4.27	112	22.14	123	88	53	0	0	3	0		
PA MIDDLETOWN	92	67	98	61	79	6	0.00	-0.86	0.00	2.41	67	13.90	69	80	37	5	0	0	0		
PA PHILADELPHIA	91	67	98	61	79	5	0.00	-0.90	0.00	2.17	62	17.76	87	82	35	5	0	0	0		
PA PITTSBURGH	86	61	90	55	73	3	0.06	-0.83	0.04	3.93	114	18.21	98	86	43	1	0	2	0		
PA SCRANTON	82	58	90	51	70	1	1.23	0.29	0.68	3.01	81	12.19	71	98	56	1	0	5	1		
PA WILLIAMSPORT	86	60	94	54	73	3	0.28	-0.74	0.15	2.71	67	12.03	61	94	43	1	0	2	0		
RI PROVIDENCE	84	64	93	62	74	5	1.29	0.54	1.28	2.24	72	18.98	84	78	43	1	0	2	1		
SC BEAUFORT	88	73	91	72	80	0	0.68	-0.83	0.57	5.27	93	19.90	84	98	62	3	0	2	1		
SC CHARLESTON	87	73	90	71	80	0	4.76	3.15	3.00	13.25	222	28.57	121	98	64	2	0	4	2		
SC COLUMBIA	89	71	94	68	80	1	1.61	0.42	0.81	5.10	114	21.13	85	95	56	5	0	3	2		
SD GREENVILLE	85	68	91	65	77	0	1.65	0.52	0.74	5.95	133	26.97	101	92	62	1	0	4	2		
SD ABERDEEN	84	58	90	49	71	2	0.56	-0.18	0.35	2.24	76	7.77	82	90	50	1	0	4	0		
SD HURON	87	63	94	54	75	5	0.02	-0.75	0.02	1.61	51	7.59	70	85	46	4	0	1	0		
SD RAPID CITY	82	55	92	48	69	1	0.01	-0.67	0.01	3.00	104	13.84	148	86	44	2	0	1	0		
SD SIOUX FALLS	86	63	96	52	74	4	0.33	-0.44	0.33	1.06	33	9.08	79	89	44	1	0	1	0		
TN BRISTOL	94	65	98	63	75	2	0.85	-0.01	0.85	3.72	113	26.28	126	96	58	0	0	1	1		
TN CHATTANOOGA	87	70	90	67	79	1	1.39	0.53	0.78	6.01	184	32.56	118	97	61	1	0	3	1		
TN KNOXVILLE	86	69	88	67	77	2	0.33	-0.63	0.21	5.11	138	31.95	129	96	63	0	0	4	0		
TN MEMPHIS	92	72	98	67	82	1	2.61	1.81	1.20	6.65	199	46.85	172	92	54	4	0	3	2		
TN NASHVILLE	87	70	91	68	78	1	0.30	-0.50	0.28	6.00	180	30.08	121	93	61	2	0	2	0		
TX ABILENE	84	68	90	66	76	-6	2.40	1.79	1.43	6.85	255	15.90	143	92	58	1	0	2	2		
TX AMARILLO	86	60	94	58	73	-3	0.05	-0.80	0.04	2.80	81	12.53	139	91	43	2	0	2	0		
TX AUSTIN	88	72	90	69	80	-3	0.65	-0.08	0.41	9.00	255	28.24	170	94	59	1	0	2	0		
TX BEAUMONT	90	74	92	72	82	0	0.96	-0.31	0.52	3.67	70	25.94	100	96	61	4	0	4	1		
TX BROWNSVILLE	87	74	92	72	81	-3	1.18	0.61	0.59	1.47	57	15.29	150	95	68	3	0	3	2		
TX CORPUS CHRISTI	90	73	92	70	82	-1	0.04	-0.68	0.02	2.29	72	18.16	141	97	62	5	0	3	0		
TX DEL RIO	89	72	93	69	81	-3	0.00	-0.49	0.00	3.18	161	16.41	200	91	53	3	0	0	0		
TX EL PASO	97	68	100	64	83	1	0.00	-0.21	0.00	1.11	185	3.32	151	51	18	7	0	0	0		
TX FORT WORTH	88	73	91	69	80	-3	1.73	1.15	0.91	3.31	117	23.86	133	96	65	2	0	3	2		
TX GALVESTON	88	80	89	79	84	1	0.00	-1.04	0.00	1.44	35	28.77	181	84	69	0	0	0	0		
TX HOUSTON	90	71	92	69	81	-1	1.52	0.45	1.30	4.32	92	34.28	154	97	58	5	0	3	1		
TX LUBBOCK	87	64	93	63	75	-4	0.63	0.00	0.41	3.53	137	13.61	174	87	44	3	0	4	0		
TX MIDLAND	89	66	95	64	77	-4	0.67	0.33	0.67	3.35	229	8.28	141	86	40	3	0	1	1		
TX SAN ANGELO	88	68	96	65	78	-3	0.01	-0.43	0.01	2.25	101	14.97	155	90	46	2	0	1	0		
TX SAN ANTONIO	88	71	89	68	80	-4	2.02	1.24	1.61	6.51	181	20.32	132	97	62	0	0	4	1		
TX VICTORIA	90	73	92	72	82	-1	0.07	-1.00	0.04	4.41	96	42.24	245	98	61	5	0	2	0		
TX WACO	90	73	92	69	81	-2	1.46	0.81	0.52	4.98	159	28.04	165	95	58	6	0	3	2		
UT WICHITA FALLS	89	71	93	67	80	-2	0.65	-0.05	0.49	2.08	63	13.68	90	92	52	5	0	3	0		
UT SALT LAKE CITY	85	58	94	47	72	-1	0.00	-0.18	0.00	1.72	195	10.58	117	45	17	3	0	0	0		
VT BURLINGTON	81	57	87	53	69	1	1.12	0.29	0.66	2.60	80	11.81	80	91	40	0	0	3	1		
VA LYNCHBURG	89	62	92	54	75	1	0.35	-0.46	0.32	3.18	99	18.76	96	93	40	4	0	3	0		
VA NORFOLK	91	70	98	65	81	4	0.19	-0.75	0.18	1.08	30	12.93	61	87	42	4	0	2	0		
VA RICHMOND	93	68	98	61	80	4	0.30	-0.60	0.28	2.21	66	16.11	80	89	37	5	0	2	0		
VA ROANOKE	87	65	90	59	76	2	0.07	-0.67	0.07	4.55	153	16.76	87	91	48	1	0	1	0		
WA WASH/DULLES	91	62	95	54	77	3	0.21	-0.67	0.20	2.12	58	15.61	80	93	40	5	0	2	0		
WA HANFORD	81	52	87	45	67	-	0.12	0.03	0.12	0.46	128	3.58	113	59	23	0	0	1	0		
WA OLYMPIA	68	47	72	39	57	-3	0.63	0.30	0.25	2.95	192	36.69	143	95	57	0	0	6	0		
WA QUILLAYUTE	64	47	67	43	55	-1	1.91	1.29	1.00	8.40	296	73.53	135	100	69	0	0	6	1		
WA SEATTLE-TACOMA	67	51	69	49	59	-3	0.19	-0.12	0.12	1.33	94	25.74	140	88	57	0	0	3	0		
WA SPOKANE	72	46	81	41	59	-6	0.02	-0.24	0.01	0.65	54	10.96	125	84	31	0	0	2	0		
WA YAKIMA	76	44	83	37	60	-7	0.06	-0.05	0.06	0.67	131	3.12	76	78	28	0	0	1	0		
WV BECKLEY	81	60	86	54	70	2	1.82	0.88	1.47	4.09	115	21.33	106	96	58	0	0	2	1		
WV CHARLESTON	85	64	90	58	75	1	1.55	0.66	1.43	4.51	136	22.46	111	97	56	1	0	2	1		
WV ELKINS	82	55	87	50	69	2	0.69	-0.36	0.63	2.53	61	21.86	99	92	53	0	0	4	1		
WV HUNTINGTON	85	65	90	60	75	2	2.19	1.34	1.38	4.68	144	21.29	105	98	59	1	0	3	2		
WI EAU CLAIRE	86	63	94	57	75	8	0.52	-0.44	0.36	3.16	80	9.87	71	88	43	2	0	2	0		
WI GREEN BAY	83	60	87	53	71	5	0.13	-0.67	0.13	4.46	141	13.24	105	97	52	0	0	1	0		
WI MADISON	85	63	90	56	74	5	1.42	0.57	1.02	4.38	128	13.63	99	95	49	1	0	3	1		
WI MILWAUKEE	84	67	90	62	75	8	0.18	-0.61	0.16	6.79	225	15.45	102	82	51	1	0	2	0		
WY CASPER	84	46	93	40	65	-1	0.00	-0.30	0.00	1.24	91	6.01	84	79	18	2	0	0	0		
WY CHEYENNE	80	52	86	47	66	2	0.00	-0.47	0.00	3.47	179	8.79	117	77	25	0	0	0	0		
WY LANDER	84	51	92	39	68	1	0.00	-0.28	0.00	1.59	114	6.15	77	50	12	1	0	0	0		
WY SHERIDAN	78	47	85	40	63	-2	0.26	-0.19	0.23	1.94	91	7.41	86	84	46	0	0	2	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 23 - 29, 1997

HIGHLIGHTS

Welcomed heat and sunshine in the Corn Belt helped crops grow rapidly. Heavy rains in the southern Plains kept combines out of winter wheat fields. In central Texas, early-week tropical-like storms brought heavy rain, caused localized flooding, and kept temperatures at below-normal levels. The heavy rains moved eastward by

midweek and limited fieldwork in the Gulf Coast States. Widespread showers in North Dakota moderately replenished topsoil moisture supplies and helped improve crop conditions. Farmers evaluated damage to fields as flood waters receded along rivers and streams in Idaho and Montana.

Winter wheat: Winter wheat harvest advanced to 24 percent (%) complete, behind both the 38% harvested at this time last year and the 5-year average of 35%. Harvest in Kansas, Oklahoma, and Texas was behind the normal pace as rain and wet fields kept combines out. In Arkansas, harvest progressed rapidly but lagged behind the normal pace. Winter wheat harvest was also behind normal in the Corn Belt due to slow crop development as a result of cool, wet weather earlier in the spring. Winter wheat acreage remained mostly good. In Colorado and Montana, condition declined due to lack of moisture.

Corn: Three percent of the national corn acreage was silking, compared with 4% for both 1996 and the average. Progress was behind normal in the five States that reported acreage silking. Above-normal temperatures in the eastern half of the country generally improved corn condition in the 17 major corn-producing States. Widespread rains and high-heat units in Iowa and Wisconsin helped corn development considerably. Fields in Kentucky showed significant improvement due to the warmer, drier weather.

Soybeans: Soybean planting neared an end as 95% of the crop was in the ground nationwide. This compared with 93% planted in 1996 and the average of 94%. Farmers planted double-crop soybeans immediately following winter wheat harvest. Kentucky and Tennessee farmers made some progress, but soybean planting remained well behind the normal pace. Three percent of the nation's soybeans was blooming, equal to last year, but slightly behind the 5-year average. Louisiana and Mississippi were the only States to report blooming progress ahead of the normal pace. The soybean acreage remained mostly good as hot, sunny weather, combined with ample soil moisture, helped soybeans to grow rapidly in the Corn Belt.

Cotton: For the Nation, cotton squaring neared the halfway point, but was behind both 65% last year and the average of 56%. Squaring was generally ahead of normal in the Southwest, but behind normal in the Southeast. Eight percent

of the crop was setting bolls, compared with 14% in 1996 and the average of 12%. The cotton acreage was rated mostly good to fair. Some Louisiana cotton was severely stunted by excessive soil moisture. Cotton fields in the Texas plains benefited from early-week rains. However, isolated heavy precipitation along with high winds caused damage to young plants and some replanting was necessary. Fields were catching up to normal progress in many fields along the Texas upper coast.

Rice: Rice in Louisiana, Mississippi, and Texas was just beginning to head. Three percent of the nation's acreage was headed, behind 8% for both last year and the average. None of the rice acreage in Arkansas and California was headed by week's end. Growers in Arkansas fertilized, flooded, and applied herbicide to rice fields. Outbreaks of rice blast disease were found in some Glenn County, California fields, but the extent and severity of damage were unknown. The rice acreage was rated as mostly good. Rice growers in Louisiana took measures to control sheath blight.

Other Small Grains: Spring wheat heading reached 25% complete, ahead of 18% last year but behind the average of 31%. Fields in Minnesota and South Dakota headed well behind the normal pace. Spring wheat condition improved in Montana but declined elsewhere. The barley acreage reached 26% headed, compared with 18% in 1996 and the average of 35%. Like spring wheat, barley heading was well behind normal in Minnesota. The barley acreage remained mostly good. The oat crop was 51% headed, ahead of both 41% in 1996 and the average of 50%. Overall, oats were rated mostly good to fair.

Other Crops: Sorghum planting was nearly complete as 97% of the crop was in the ground. This was ahead of 96% planted at this time last year and the average of 94%. Sorghum was rated mostly good. Peanuts pegging reached 24% complete, behind 37% in 1996 and the average of 38%. The peanut crop rated mostly good.

Crop Progress and Condition

Week Ending June 29, 1997

Soybeans Percent Planted

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
AL	80	71	89	90
AR	87	76	89	89
GA	92	83	93	90
IL	98	97	92	97
IN	98	96	86	97
IA	100	100	99	97
KS	99	98	94	90
KY	58	44	76	81
LA	92	90	98	95
MI	100	100	92	98
MN	99	99	99	96
MS	89	86	99	92
MO	88	84	86	88
NE	100	100	100	99
NC	77	68	88	82
OH	99	95	96	98
SC	90	80	88	84
SD	98	98	97	93
TN	59	49	75	85
ALL	95	92	93	94

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

Soybeans Percent Blooming

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
AL	3	NA	4	4
AR	4	NA	12	6
GA	3	NA	12	8
IL	2	NA	1	4
IN	0	NA	0	1
IA	3	NA	0	4
KS	8	NA	3	13
KY	0	NA	NA	NA
LA	19	NA	23	10
MI	0	NA	0	2
MN	0	NA	0	2
MS	18	NA	43	17
MO	2	NA	0	2
NE	1	NA	0	2
NC	2	NA	NA	NA
OH	1	NA	0	5
SC	5	NA	NA	NA
SD	1	NA	NA	NA
TN	0	NA	1	2
ALL	3	NA	3	4

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

Winter Wheat Percent Harvested

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
AR	71	37	89	88
CA	85	70	76	64
CO	0	0	1	7
GA	96	86	97	96
ID	0	0	0	0
IL	6	0	26	23
IN	4	3	15	14
KS	15	5	39	38
MI	0	0	0	0
MO	25	7	36	32
MT	0	0	0	0
NE	0	0	0	5
NC	82	60	75	72
OH	0	0	0	1
OK	65	40	96	83
OR	0	0	0	0
SD	0	0	0	0
TX	52	42	82	71
WA	0	0	0	0
ALL	24	14	38	35

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

Corn Percent Silking

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
CO	0	0	0	0
GA	86	79	88	89
IL	0	0	0	1
IN	0	0	0	0
IA	0	0	0	0
KS	2	1	3	5
KY	0	0	0	0
MI	0	0	0	0
MN	0	0	0	0
MO	4	0	12	6
NE	0	0	0	1
NC	26	10	41	39
OH	0	0	0	0
PA	0	0	1	1
SD	0	0	0	0
TX	46	38	59	60
WI	0	0	0	0
ALL	3	2	4	4

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

Cotton Percent Squaring

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
AL	35	22	81	68
AZ	91	81	93	90
AR	61	21	94	79
CA	65	55	54	48
GA	61	42	81	72
LA	60	38	96	85
MS	52	32	95	83
MO	19	10	79	66
NM	68	28	77	50
NC	32	19	47	41
OK	11	5	39	23
SC	66	42	68	52
TN	38	11	76	68
TX	44	28	46	40
ALL	49	31	65	56

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

Cotton Percent Setting Bolls

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
AL	0	NA	8	6
AZ	47	NA	56	40
AR	0	NA	11	4
CA	10	NA	2	2
GA	6	NA	18	15
LA	5	NA	5	19
MS	16	NA	27	15
MO	0	NA	10	4
NM	1	NA	0	1
NC	2	NA	7	6
OK	0	NA	0	0
SC	10	NA	14	12
TN	0	NA	4	3
TX	8	NA	15	14
ALL	8	NA	14	12

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

Crop Progress and Condition

Week Ending June 29, 1997

Sorghum Percent Planted

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
AR	100	100	100	100
CO	99	85	97	90
IL	90	79	85	90
KS	98	90	97	92
LA	100	100	100	99
MS	100	100	100	100
MO	98	94	96	95
NE	100	100	100	99
NM	97	96	85	87
OK	91	84	93	89
SD	93	86	92	91
TX	97	93	94	95
ALL	97	92	96	94

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

Oats Percent Headed

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
IA	87	56	71	77
MI	35	8	31	45
MN	53	12	46	60
NE	88	62	87	NA
ND	10	2	6	23
OH	71	37	52	73
PA	65	50	71	41
SD	43	12	33	56
WI	63	16	40	47
ALL	51	22	41	50

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

Peanuts Percent Pegging

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
AL	25	14	45	31
FL	52	29	69	NA
GA	30	16	48	45
NC	8	0	6	NA
OK	24	12	38	18
SC	0	0	0	0
TX	15	2	22	NA
VA	6	5	9	NA
ALL	24	11	37	38

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

Barley Percent Headed

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
ID	43	34	30	38
MN	14	3	24	48
MT	19	10	9	25
ND	15	2	11	28
SD	44	9	21	51
WA	96	71	59	85
ALL	26	13	18	35

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

Rice Percent Headed

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
AR	0	0	0	0
CA	0	0	0	0
LA	13	6	23	27
MS	8	0	7	3
TX	2	1	24	20
ALL	3	1	8	8

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

Spring Wheat Percent Headed

	Jun 29 1997	Prev Week	Prev Year	5-Yr Avg
ID	49	33	36	39
MN	18	4	29	46
MT	33	4	15	24
ND	19	3	10	24
SD	38	18	39	58
ALL	25	8	18	31

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

Winter Wheat Crop Condition by Percent

	VP	P	F	G	EX
AR	3	10	26	45	16
CA	0	0	10	70	20
CO	5	11	30	43	11
GA	2	10	40	44	4
ID	0	3	18	52	27
IL	2	4	25	58	11
IN	2	7	27	54	10
KS	2	6	17	57	18
MI	2	9	34	42	13
MO	0	7	20	58	15
MT	1	9	35	47	8
NE	2	12	39	43	4
NC	0	3	24	59	14
OH	2	7	26	53	12
OK	3	9	29	51	8
OR	0	3	9	58	30
SD	8	11	31	45	5
TX	2	11	36	41	10
WA	0	0	5	80	15
ALL	2	8	25	52	13
Prev Wk	2	8	27	52	11
Prev Yr	13	21	31	27	8

Soybeans Crop Condition by Percent

	VP	P	F	G	EX
AL	0	10	38	49	3
AR	0	6	30	54	10
GA	0	2	19	73	6
IL	1	4	27	57	11
IN	2	6	31	53	8
IA	1	4	24	56	15
KS	0	1	15	68	16
KY	1	6	35	52	6
LA	1	11	24	54	10
MI	3	8	37	46	6
MN	4	12	35	42	7
MS	1	7	22	52	18
MO	0	6	28	58	8
NE	0	2	21	66	11
NC	1	4	31	63	1
OH	2	9	33	44	12
SC	0	0	19	68	13
SD	3	6	20	53	18
TN	1	5	27	55	12
ALL	1	6	28	54	11
Prev Wk	2	7	30	53	8
Prev Yr	1	7	34	50	8

Crop Progress and Condition

Week Ending June 29, 1997

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	1	5	14	69	11
GA	0	1	18	71	10
IL	1	2	18	60	19
IN	2	6	30	52	10
IA	0	3	17	60	20
KS	0	1	9	66	24
KY	3	12	37	39	9
MI	2	11	39	42	6
MN	2	8	33	46	11
MO	0	3	24	60	13
NE	0	2	16	66	16
NC	7	8	37	46	2
OH	2	9	26	49	14
PA	0	7	30	53	10
SD	3	3	16	54	24
TX	0	1	11	56	32
WI	0	3	14	62	21
ALL	1	4	21	57	17
Prev Wk	1	6	26	54	13
Prev Yr	2	7	30	50	11

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	16	29	31	22	2
AZ	1	1	13	52	33
AR	0	9	51	38	2
CA	0	0	0	50	50
GA	0	2	23	64	11
LA	0	7	45	45	3
MS	3	7	28	53	9
MO	1	12	39	48	0
NM	0	10	26	52	12
NC	4	18	46	32	0
OK	0	5	24	61	10
SC	0	4	34	59	3
TN	4	18	37	36	5
TX	5	13	32	40	10
ALL	3	10	31	45	11
Prev Wk	4	10	32	45	9
Prev Yr	6	11	24	44	15

Sorghum Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	2	36	56	6
CO	0	1	10	74	15
IL	1	3	23	58	15
KS	0	2	13	69	16
LA	0	2	36	56	6
MS	0	5	19	69	7
MO	0	5	26	59	10
NE	0	5	29	56	10
NM	1	1	36	61	1
OK	0	1	12	85	2
SD	0	7	37	44	12
TX	0	2	17	54	27
ALL	0	2	18	62	18
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	NA	NA	NA	NA	NA

Oats Crop Condition by Percent					
	VP	P	F	G	EX
IA	1	4	27	56	12
MI	2	11	46	35	6
MN	5	16	33	40	6
NE	0	4	30	57	9
ND	7	32	34	26	1
OH	1	8	28	54	9
PA	0	5	30	50	15
SD	3	3	26	56	12
WI	0	3	18	60	19
ALL	3	11	28	48	10
Prev Wk	3	11	30	49	7
Prev Yr	1	5	26	59	9

Peanuts Crop Condition by Percent					
	VP	P	F	G	EX
AL	0	5	54	34	7
FL	0	1	22	60	17
GA	0	1	18	74	7
NC	0	5	34	61	0
OK	0	1	36	61	2
SC	0	0	16	78	6
TX	0	1	19	61	19
VA	0	0	50	50	0
ALL	0	2	28	61	9
Prev Wk	0	4	27	60	9
Prev Yr	2	4	29	56	9

Barley Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	1	5	65	29
MN	2	8	39	42	9
MT	1	6	21	60	12
ND	3	14	32	46	5
SD	3	4	37	51	5
WA	0	0	9	82	9
ALL	2	9	25	54	10
Prev Wk	1	7	27	54	11
Prev Yr	0	4	25	56	15

Rice Crop Condition by Percent					
	VP	P	F	G	EX
AR	0	3	23	54	20
CA	0	0	35	65	0
LA	0	4	39	50	7
MS	0	4	27	58	11
TX	0	0	22	62	16
ALL	0	2	29	56	13
Prev Wk	0	3	30	55	12
Prev Yr	0	3	18	59	20

Spring Wheat Crop Condition by Percent					
	VP	P	F	G	EX
ID	0	2	4	67	27
MN	2	6	40	44	8
MT	2	13	33	44	8
ND	4	19	34	41	2
SD	2	7	34	48	9
ALL	3	14	33	44	6
Prev Wk	2	12	34	44	8
Prev Yr	0	4	25	61	10

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 2.8. Topsoil 44% adequate, 56% surplus. Corn silked 53%, 61% 1996, 60% avg.; 4% poor, 23% fair, 63% good, 10% excellent. Wheat harvested 67%, 85% 1996, 83% avg.; 1% very poor, 23% poor, 40% fair, 30% good, 6% excellent. Livestock 2% poor, 5% fair, 75% good, 18% excellent. Wet conditions limited fieldwork in many areas.

ALASKA: Days suitable for haying 7. Topsoil 45% short, 55% adequate. Subsoil 50% short, 50% adequate. Crop growth 15% slow, 55% moderate, 30% rapid. First cut hay 30% complete, compared to <5% in 1996. Small grain height 14 inches, 4 inches taller than 1996. Barley 20% fair, 80% good. Commercial potato height 5 inches, equal to 1996 growth. Hay 25% poor, 55% fair, 15% good, 5% excellent.

ARIZONA: Temperatures remained slightly below normal in most areas. Small grains 94% harvested, 96% 1996, 93% avg. Alfalfa harvest activity 6% light, 21% moderate, 55% active, 18% not being harvested; 1% poor, 6% fair, 48% good, 45% excellent. Both central, western growers continued to cut, ship cantaloupe, watermelon, honeydew, speciality melons. Central area growers also harvesting sweet corn, carrots. Potato harvest complete. Dry onion harvest active in eastern fields. A light supply of Valencia oranges, grapefruit were being shipped as the season neared completion. Grapes harvested in the western, central areas.

ARKANSAS: Days suitable for fieldwork 6. Temperatures were slightly above normal. Rains began around mid-week. Soil moisture 1% very short, 34% short, 59% adequate, 6% surplus. Main farming activities: Harvest of hay, soybean planting, rice fertilizing, flooding, herbicide application, wheat harvest. Other farm activity included: Cotton fertilization, weed/insecticide control, soybean weed control, peach, blueberry, blackberry harvest, bermuda grass sprigging, corn irrigation, tomato harvest.

CALIFORNIA: Field activities progressed normally under seasonable weather conditions in most areas. Grain harvests of wheat, barley, oats were winding down in the San Joaquin, Sacramento, desert valleys. Small grain stubble was baled for straw or burned where conditions permitted. Late plantings of second crop corn, dry edible beans were ongoing. Rice was treated for broadleaf weeds, grasses, lygus in the Sacramento, San Joaquin Valleys. Outbreaks of rice blast disease were found in some Glenn County fields. The extent, severity were unknown at week's end. Cotton showed good growth, development in most areas, although some fields had inconsistent plant heights. Growers were actively irrigating, spraying for aphids, lygus, mites. Safflower was in full bloom in the Sacramento Valley, treatments for lygus, weeds continued. Blackeye beans were cultivated, treated for worms. Corn was fertilized, sprayed for weeds, worms. Sunflowers were blooming in the Sacramento Valley. Seed alfalfa was setting seed in Fresno County. Alfalfa, clover hay were treated for lygus, leafhoppers. Alfalfa, sudangrass were cut for hay or green chopped. Harvest of peaches, plums, nectarines continued. Some almonds in the southern San Joaquin Valley were treated for mite infestations. Table grape harvesting continued in Fresno County. Apples, pears, plums, walnuts were treated for codling moth. Lemons, Valencia oranges were harvested. Ruby red variety grapefruit were harvested. Olives were sizing well. Broccoli, cauliflower, lettuce harvests progressed well along the central coast. Bell pepper harvesting continued in Merced County, the desert valleys. Bell peppers and tomatoes were treated to control worms, mildew, aphids. Garlic continued to be harvested in the central coast area. Processing garlic, fresh market onions were treated for thrips, mites. Sweet corn harvest was in full swing in Tulare County. Cantaloupe, honeydew, watermelons were harvested in the Imperial, San Joaquin valleys. Carrot, potato harvests progressed in Kern

County. Onions were harvested in Kern, San Joaquin counties. Sweet potatoes were harvested in Merced County. Pastures, rangeland in the northern counties remained in good condition. Plenty of feed, water was available, although foothill ranges were drying rapidly. In the central portion of the State, grazing conditions continued to decline. Lower elevation rangeland, native pasture were in poor condition, with supplemental feeding necessary. Vegetation was maturing at higher elevations. Southern ranges, pastures were very dry, with supplemental feeding necessary in non-irrigated areas.

COLORADO: Days suitable for fieldwork 5.8. Topsoil 7% very short, 23% short, 67% adequate, 3% surplus. Subsoil 7% very short, 27% short, 62% adequate, 4% surplus. Spring barley 83% headed, 93% 1996, 52% avg.; 21% turning color, 45% 1996, 14% avg.; 4% poor, 14% fair, 63% good, 19% excellent. Oats 68% headed, 63% 1996, 51% avg.; 22% turning color, 16% 1996, 7% avg.; 4% very poor, 2% poor, 20% fair, 69% good, 5% excellent. Spring wheat 65% headed, 57% 1996, 47% avg.; 3% turning color, 32% 1996, 6% avg.; 2% poor, 20% fair, 57% good, 21% excellent. Sorghum 86% emerged, 88% 1996, 80% avg.; 1% poor, 10% fair, 74% good, 15% excellent. Summer potatoes 4% poor, 13% fair, 79% good, 4% excellent. Dry onion 1% very poor, 1% poor, 11% fair, 79% good, 8% excellent. Sugar beets 88% thinned, 98% 1996, 87% avg.; 4% poor, 21% fair, 66% good, 9% excellent. Fall potatoes 100% emerged, 100% 1996, 97% avg. Dry beans 99% planted, 100% 1996, 90% avg.; 91% emerged, 96% 1996, 77% avg. Alfalfa 80% 1st cutting, 81% 1996, 73% avg.; 5% 2nd cutting, 13% 1996, 6% avg.; 1% very poor, 6% poor, 16% fair, 58% good, 19% excellent. Winter wheat 65% turning color, 75% 1996, 79% avg.; 7% ripe, 12% 1996, 20% avg. Livestock good to fair.

DELAWARE: Days suitable for fieldwork 6.3. Topsoil 1% very short, 33% short, 63% adequate, 3% surplus. Subsoil 14% short, 83% adequate, 3% surplus. Winter wheat 3% poor, 20% fair, 68% good, 9% excellent; 95% turned, 88% 1996, 97% avg.; 8% harvested, 34% 1996, 21% avg. Barley 5% poor, 16% fair, 61% good, 18% excellent; 88% harvested, 92% 1996, 86% avg. Corn 1% poor, 17% fair, 72% good, 10% excellent. Soybeans 3% poor, 12% fair, 82% good, 3% excellent. Sorghum 74% planted, 66% 1996, 92% avg. Tomatoes 84% planted, 91% 1996, 98% avg. Cucumbers 56% planted, 70% 1996, 82% avg.; 4% harvested, 9% 1996, 5% avg. Snap beans 51% planted, 44% 1996, 80% avg. Sweet corn 87% planted, 97% 1996, 98% avg. Lima beans 49% planted, 38% 1996, 59% avg. Green peas 71% harvested, 84% 1996, 80% avg. Strawberries 93% harvested, 95% 1996, 99% avg. Apples 2% fair, 91% good, 7% excellent. Peaches 4% fair, 95% good, 1% excellent. Hay supplies 13% short, 87% adequate. Clover, other hays 56% 2nd cutting harvested, 16% 1996, 19% avg. Alfalfa 65% 2nd cutting harvested, 24% 1996, 38% avg. Activities: Strawberry harvest winding down, some sweet corn picked. Small grain, hay harvest very active.

FLORIDA: Topsoil was adequate to surplus throughout the State, with scattered areas of short moisture. Peanuts were 52% pegged. Soybean planting was winding down. Sugarcane growth was normal. Tobacco harvest was active. Dry weather was needed to control weeds. Rain was delaying haying in some areas. Peanuts were poor 1%, fair 22%, good 60%, and excellent 17%. Northern producers continued to market mostly tomatoes and sweet corn. Okra and black-eyed peas harvests were active in Dade County. Vegetables were being picked for local sales, and U-Pic market continued in many southern Peninsula areas. Major vegetables being shipped: Watermelons, tomatoes, sweet corn, eggplant, and peppers. Well-cared-for citrus groves were in very good condition, and minimum care groves were showing stress, with lots of new foliage. New crop fruit was progressing well. Valencia harvest was slowing, with very few supplies remaining. Grapefruit

movement very slow as packers and processors were about finished for the season. Caretakers were cutting cover crops, spraying, herbiciding, fertilizing, removing dead trees, and still actively replanting. Pasture feed was fair 10%, good 85%, and excellent 5%. Condition of cattle herds was fair 10%, good 85%, and excellent 5%. Pastures and cattle were generally in good condition throughout the State. Pastures were better due to recent rains, except in the southeast where lack of rain and high temperatures were drying out pastures.

GEORGIA: Days suitable for fieldwork 5.0. Soil moisture 3% very short, 12% short, 68% adequate, 17% surplus. Corn 42% dough, 37% 1996, 52% avg.; 11% dent, 7% 1996, 18% avg. Peanuts 73% blooming, 89% 1996, 85% avg. Sorghum 2% poor, 16% fair, 80% good, 2% excellent; 81% planted, 93% 1996, 92% avg. Tobacco 6% poor, 38% fair, 52% good, 4% excellent; 14% harvested, 10% 1996, 10% avg. Watermelons 2% very poor, 17% poor, 30% fair, 45% good, 6% excellent; 30% harvested, 33% 1996, 32% avg. Apples 4% poor, 75% fair, 15% good, 6% excellent. Peaches 15% fair, 78% good, 7% excellent; 67% harvested, 66% 1996, 66% avg. Pecans 5% poor, 29% fair, 59% good, 7% excellent. Activities: Fieldwork was very active, scattered showers caused some delays. Warmer temperatures pushed crop development. Most row crop development later than normal. Wheat harvest complete some areas. Corn generally good but rust on early varieties some parts of central areas. Weed control in cotton, peanuts active, some aerial spraying in wetter areas on cotton. Tobacco harvest continued rapid pace. Hay baling active as the weather permitted. Other activities include soybean planting, irrigating in dry areas, harvesting melons, vegetables, fruits.

HAWAII: Variable weather. Favorable conditions through midweek. Strong trade result in heavy showers for windward areas. Farming, crop growth hampered by added rain, gusty winds. Overall conditions fair to good. Papaya production light, increase in some areas. Watermelon in good condition with heavy production expected for Fourth of July weekend. Sweet corn steady, heavy. Continued slow market some areas. Head cabbage market improved, harvesting up. Ginger root harvesting hampered by wet weather.

IDAHO: Flood waters have started to recede, farmers are assessing damages. Days suitable for fieldwork 6.7. Topsoil 9% surplus, 83% adequate, 8% short. Spring wheat jointed 97%, booting 83%. Barley jointed 93%, booting 77%. Winter wheat booting 100%; headed 90%; 92% 1996; 84% avg. Potatoes emerged 97%, 96% 1996, 96% avg.; 12 inches high 60%, 47% 1996, 45% avg. Potato 30% excellent, 59% good, 11% fair. Alfalfa harvested (1st cutting) 76%, 73% 1996, 78% avg.; 2nd cutting 3%, 2% 1996, 3% avg. Dry beans planted 100%, 99% 1996, 98% avg.; emerged 100%, 91% 1996, 90% avg. Cherries harvested 60%, 10% 1996, 39% avg. Irrigation water supply 69% excellent, 31% good. Activities: Assessing flood damage, weed control, irrigating.

ILLINOIS: Days suitable for fieldwork 5.2. Topsoil 2% very short, 17% short, 62% adequate, 19% surplus. Wheat harvest began in limited areas last week. Double crop soybeans were being planted as soon as the wheat was harvested. A few water logged areas in the southeast were unable to make any progress last week as more heavy rain fell. Welcome heat, sunshine across the State last week pushed crop growth along, aided in hay harvesting. Some areas in the central district that were being missed by rains were beginning to dry to the point that crops were being stressed. Farmers were spraying herbicides, when the winds would allow it last week, scouting fields for signs of corn borer. Other activities last week included cultivating corn, soybeans, mowing grass waterways, preparing combines for wheat harvest. Corn height 34 in., 25 in. 1996, 29 in. avg. Wheat turning yellow 92%, 86% 1996, 96% avg.; ripe 50%, 54% 1996, 65% avg. Oats headed 86%, 65% 1996, 83% avg.; filled 41%, 27% 1996, 47% avg.; turning yellow 3%, 4% 1996, 14% avg.; ripe less than 1% 0% 1996, 2% avg. Oats 1% poor, 16% fair, 70% good, 13% excellent. Alfalfa hay 1st cutting 97%, 83% 1996, 95% avg.; 2nd cutting 13%, 8% 1996 18% avg.; 1% very poor, 3% poor, 22% fair, 64% good, 10% excellent. Red clover hay cutting 80%, 75% 1996, 86% avg.; 2% very poor, 4% poor, 24% fair, 61% good, 9% excellent.

INDIANA: Days suitable for fieldwork 4.4. Topsoil 2% short, 74% adequate, 24% surplus. Subsoil 1% short, 73% adequate, 26% surplus. Hot, sunny conditions combined with ample soil moisture have corn, soybeans growing rapidly. Range, pasture feed 1% very poor, 3% poor, 22% fair, 65% good, 9% excellent. First cutting of alfalfa 80% complete. Transplanting of tobacco 55% complete. Activities: Soybean planting, replanting, corn replanting, cutting hay, applying herbicide, applying nitrogen to corn, cultivating corn, soybeans, harvesting wheat, caring for livestock.

IOWA: Days suitable for fieldwork 3.5. Topsoil short 8%, adequate 83%, surplus 9%. Subsoil short 8%, adequate 84%, surplus 8%. An excellent growth week, as widespread rains, high heat units helped crop development. Small areas were affected by high winds and hail. Corn borers, leafhoppers are being reported in areas, some soybeans are experiencing herbicide injury. Alfalfa hay 1st harvest 94%, 75% 1996, 83% avg. Clover hay 1st harvest 69%, 33% 1996, 58% avg. Corn cultivated 1st time 76%, 53% 1996, 61% avg. Oats headed 87%, 71% 1996, 77% avg. Height of tallest corn is 39" while average height is 29". Winter wheat harvested 1%, 22% 1996, 11% avg. All crop conditions improved from last week. Corn 3% poor, 17% fair, 60% good, 20% excellent. Soybean 1% very poor, 4% poor, 24% fair, 56% good, 15% excellent. Hay 2% very poor, 11% poor, 35% fair, 45% good, 7% excellent. Oats 1% very poor, 4% poor, 27% fair, 56% good, 12% excellent. Pasture feed 2% very poor, 10% poor, 34% fair, 45% good, 9% excellent. Winter wheat 2% very poor, 6% poor, 23% fair, 59% good, 10% excellent. Livestock good.

KANSAS: Days suitable for fieldwork 3.7. Topsoil 1% very short, 15% short, 66% adequate, 18% surplus. Subsoil 1% very short, 13% short, 77% adequate, 9% surplus. Wheat turning 100%, 100% 1996, 99% avg.; ripe 55%, 70% 1996, 72% avg. Harvest slowed by rains. Sorghum 2% poor, 13% fair, 69% good, 16% excellent. Some sorghum, corn fields damaged by hail. Soybean 1% poor, 15% fair, 68% good, 16% excellent. Soybeans blooming 8%, 3% 1996, 13% avg. Sunflowers 3% poor, 20% fair, 68% good, 9% excellent. Sunflowers planted 90%, no historic data available. Second cut alfalfa 35%, 33% 1996, 34% avg. Pasture feed 4% poor, 16% fair, 65% good, 15% excellent. Stock water supplies 1% very short, 3% short, 88% adequate, 8% surplus. Major field activities included: Planting fall crops, cutting hay, harvesting wheat. Livestock reported as gaining well.

KENTUCKY: Days suitable for fieldwork 4.9. Topsoil 1% very short, 2% short, 67% adequate, 30% surplus. Subsoil 1% very short, 1% short, 66% adequate, 32% surplus. Heavy activity in the field due to dry weather conditions. Burley tobacco set 84%. Dark tobacco 83% set. Set tobacco 3% very poor, 14% poor, 45% fair, 33% good, 5% excellent. A few reports of blue mold. Corn 3% very poor, 12% poor, 37% fair, 39% good, 9% excellent. Some reports of having to re-plant corn. Soybeans 1% very poor, 6% poor, 35% fair, 52% good, 6% excellent. Winter wheat harvested 26%, 54% 1996, 63% avg. Wheat 1% very poor, 6% poor, 31% fair, 48% good, 14% excellent. Pasture feed 1% very poor, 6% poor, 23% fair, 52% good, 18% excellent. A lot of hay being harvested this week.

LOUISIANA: Days suitable for fieldwork 4.0. Soil moisture 6% short, 60% adequate, 34% surplus. Corn 1% poor, 9% fair, 78% good, 12% excellent; 92% silked, 99% 1996, 94% avg.; 40% dough, 72% 1996, 63% avg.; 0% mature, 3% 1996, 5% avg. Some cotton was severely stunted due to excessive soil moisture. Hay 88% 1st cutting, 87% 1996, 87% avg. Hay harvest resumed with farmers cutting, baling between rains. Peaches 1% poor, 36% fair, 63% good; 62% harvested, 47% 1996, 47% avg. Rice producers took measures to combat sheath blight. Sorghum 100% emerged, 100% 1996, 98% avg.; 13% headed, 23% 1996, 27% avg. Soybeans 88% emerged, 96% 1996, 91% avg. Condition of newly planted soybean fields continued to deteriorate due to wet conditions. Sugarcane 3% poor, 23% fair, 53% good, 21% excellent. Sugarcane growers began insect control activities. Sweet potatoes 80% planted, 85% 1996, 80% avg. Wheat 96% harvested, 100% 1996, 98% avg. Livestock 3% poor, 28% fair, 63% good, 6% excellent. Vegetables 2% very poor, 13% poor, 36% fair, 44% good, 5% excellent. Vegetable producers were harvesting tomatoes, eggplants.

MARYLAND: Days suitable for fieldwork 6.1. Topsoil 11% very short, 36% short, 51% adequate, 2% surplus. Subsoil 8% very short, 39% short, 51% adequate, 2% surplus. Winter wheat 1% very poor, 4% poor, 17% fair, 43% good, 35% excellent; 8% harvested, 30% 1996, 20% avg. Rye 18% fair, 60% good, 22% excellent; 25% harvested, 31% 1996, 27% avg. Barley 2% very poor, 2% poor, 17% fair, 45% good, 34% excellent; 84% harvested, 59% 1996, 71% avg. Field corn 3% very poor, 10% poor, 30% fair, 40% good, 17% excellent. Soybeans 2% very poor, 6% poor, 26% fair, 42% good, 24% excellent; 70% planted, 68% 1996, 75% avg. Sorghum 94% planted, 74% 1996, 91% avg. Apples 2% very poor, 3% poor, 26% fair, 53% good, 16% excellent. Peaches 37% very poor, 6% poor, 13% fair, 40% good, 4% excellent. Cucumbers 90% planted, 92% 1996, 92% avg. Tobacco 15% fair, 80% good, 5% excellent. Green pea harvest winding down. Strawberries 75% harvested, 91% 1996, 95% avg. Hay supplies 6% very short, 5% short, 87% adequate, 2% surplus. Alfalfa hay 27% 2nd cutting, 31% 1996, 34% avg. Clover and other hays 6% 2nd cutting, 6% 1996, 11% avg. Activities: Harvesting of small grains, planting second crop soybeans, cutting hay.

MICHIGAN: Days suitable for fieldwork 6.0. Topsoil 2% very short, 18% short, 75% adequate, 5% surplus. Subsoil 2% very short, 9% short, 86% adequate, 3% surplus. Corn height 15 in., 12 in. 1996. Dry beans emerged 90% 1997. All hay 1st cutting harvested 80% 1997, 60% 1996, 73% avg. All hay crop 5% very poor, 13% poor, 45% fair, 30% good, 7% excellent. Range, pasture feed 5% very poor, 17% poor, 38% fair, 32% good, 8% excellent. Asparagus harvested 99% 1997, 99% 1996, 100% avg. Strawberries planted 24%, 63% 1996, 59% avg.

MINNESOTA: Days suitable for fieldwork 4.6. Topsoil 14% very short, 28% short, 50% adequate, 8% surplus. Corn 81% cultivated, 64% 1996, 66% avg.; 23 in. height, 20 in. 1996, 24 in. avg. Soybeans 42% cultivated, 32% 1996, 43% avg.; 8 in. height, 7 in. 1996, 8 in. avg. Spring wheat 68% jointed, 63% 1996, 87% avg.; 18% headed, 29% 1996, 46% avg. Oats 90% jointed, 87% 1996, 92% avg.; 53% headed, 46% 1996, 60% avg. Barley 69% jointed, 66% 1996, 88% avg.; 14% headed, 24% 1996, 48% avg. Alfalfa 90% 1st cutting, 88% 1996, 86% avg. Pasture feed 12% very poor, 23% poor, 38% fair, 26% good, 1% excellent. Spring wheat 2% very poor, 6% poor, 40% fair, 44% good, 8% excellent. Barley 2% very poor, 8% poor, 39% fair, 42% good, 9% excellent. Corn 2% very poor, 8% poor, 33% fair, 46% good, 11% excellent. Oats 5% very poor, 16% poor, 33% fair, 40% good, 6% excellent. Sugar beets 0% very poor, 7% poor, 34% fair, 45% good, 14% excellent. Soybeans 4% very poor, 12% poor, 35% fair, 42% good, 7% excellent.

MISSISSIPPI: Days suitable for fieldwork 2.0. Soil moisture 1% short, 39% adequate, 60% surplus. Corn 54% silked, 81% 1996, 70% avg.; 20% dough, 25% 1996, 27% avg.; 1% very poor, 8% poor, 22% fair, 56% good, 13% excellent. Soybeans 89% planted, 99% 1996, 92% avg.; 80% emerged, 98% 1996, 88% avg.; 18% blooming, 43% 1996, 17% avg.; 1% very poor, 7% poor, 22% fair, 52% good, 18% excellent. Wheat 99% mature, 100% 1996, 100% avg.; 70% harvested, 99% 1996, 89% avg.; 2% very poor, 9% poor, 39% fair, 42% good, 8% excellent. Peaches 43% harvested, 52% 1996, 47% avg.; 2% poor, 27% fair, 50% good, 21% excellent. Peanuts 15% pegging, N/A 1996, N/A avg.; 2% fair, 84% good, 14% excellent. Sweet potatoes 36% planted, 78% 1996, 85% avg.; 1% poor, 2% fair, 97% good. Hay 99% harvested (cool season), 100% 1996, N/A avg.; (warm season), 35% harvested, 45% 1996, N/A avg.; 2% very poor, 9% poor, 38% fair, 41% good, 10% excellent. Watermelons 99% planted, 100% 1996, 100% avg.; 3% very poor, 12% poor, 33% fair, 43% good, 9% excellent. Blueberries 5% poor, 21% fair, 55% good, 19% excellent. Cattle 1% very poor, 2% poor, 20% fair, 60% good, 17% excellent. Pasture feed 4% poor, 21% fair, 54% good, 21% excellent. Main activities: Replanting soybeans, weed, insect control as well as tillage where weather permitted.

MISSOURI: Days suitable for fieldwork 4.3, ranging from about 5.6 days in the southwest, south central to about 3.6 days in north central, southeast. Topsoil 1% very short, 13% short, 74% adequate, 12% surplus. Surplus 22% or more reported in the east central, southeastern districts. Bean planting most advanced in the northwest, north central, west central, central districts at 99% or more planted, least advanced

southeast at 90%. Sorghum planting in nearly all areas is virtually complete with the northeastern district least advanced at 94%. Wheat coloring is 100% across the entire State. Oats harvested 2%, 11% 1996, 8% avg. First crop alfalfa 95%, 92% 1996, 94% avg. Second crop alfalfa 21%, 22% 1996, 23% avg. Other hay 61%, 62% 1996, 66% avg. Pastures feed 1% very poor, 9% poor, 31% fair, 52% good, 7% excellent.

MONTANA: Days suitable for fieldwork 6.1. Topsoil 11% very short, 33% short, 54% adequate, 2% surplus. Subsoil 7% very short, 36% short, 55% adequate, 2% surplus. Many areas in the eastern part of the State are still very short on rain. The rest of the State generally looks good. Rains slowed down hay harvest last week. Oats boot 77%, 44% 1996, 63% avg.; headed 32%, 8% 1996, 21% avg.; 5% very poor, 16% poor, 39% fair, 33% good, 7% excellent. Alfalfa hay 1st cutting 32% complete, 27% 1996, 34% avg.; other hay 1st cutting 25% complete, 18% 1996, 22% avg.

NEBRASKA: Days suitable for fieldwork 4.2. Subsoil 1% very short, 15% short, 81% adequate, 3% surplus. Topsoil 1% very short, 17% short, 74% adequate, 8% surplus. Rainfall coupled with above normal temperatures last week promoted rapid crop growth over much of the State. Unofficial rainfall in east central, southeastern counties averaged over three inches. However, thunderstorms also brought hail, high winds to western, south central, southeastern parts of the State. Storms caused varying degrees of crop damage ranging from minor damage to total crop loss in some areas. Winter wheat 2% very poor, 12% poor, 39% fair, 43% good, 4% excellent; 75% turning color, 69% 1996, 79% avg.; 1% ripe, 3% 1996, 18% avg.; southern central part of the State expect test cutting to begin the first of July. Corn 2% poor, 16% fair, 66% good, 16% excellent; corn borer moths continued to be reported across the State. Soybeans 2% poor, 21% fair, 66% good, 11% excellent. Sorghum 5% poor, 29% fair, 56% good, 10% excellent. Dry bean 100% planted, 100% 1996, 100% avg.; 95% emerged, 95% 1996, 95% avg. Alfalfa 2% very poor, 13% poor, 33% fair, 43% good, 9% excellent; 94% 1st cutting, 94% 1996, 96% avg. Wild hay 1% very poor, 9% poor, 32% fair, 49% good, 9% excellent. Pasture feed, range 1% very poor, 12% poor, 24% fair, 60% good, 3% excellent. Other activities: Cultivating row crops, applying chemicals, irrigation preparation, moving grain to market, routine chores.

NEVADA: Irrigation water supplies remained adequate statewide. Haying very active. Alfalfa 1st cutting 75% complete compared with 80% 1996, 80% avg. Second cutting was getting underway in Lahontan Valley. Third cutting was underway extreme south. Heading of fall seeded grains neared completion. Heading advanced in spring seeded grains. Wheat fair to excellent, mostly good. Barley fair to good. Corn condition good. Onions good to excellent. Most garlic good to excellent. Potatoes good. Main farm, ranch activities: Alfalfa hay harvest, irrigating, spraying.

NEW ENGLAND: Days suitable for fieldwork: 6.4. Topsoil 8% very short, 31% short, 57% adequate, 4% surplus. Subsoil 2% very short, 27% short, 66% adequate, 5% surplus. Pasture feed 1% very poor, 3% poor, 33% fair, 54% good, 9% excellent. Massachusetts potatoes 100% planted, 100% 1996, 100% avg.; 100% emerged; condition good. Rhode Island potatoes 100% planted, 100% 1996, 100% avg.; 100% emerged; condition good to excellent. Maine potatoes 100% planted, 100% 1996, 100% avg.; 85% emerged; condition good. Field corn 99% planted, 99% 1996, 100% avg.; 95% emerged; condition good. Sweet corn 95% planted, 95% 1996, 95% avg.; 90% emerged; condition good to fair. Oats in Maine 100% planted, 100% 1996, 99% avg.; 95% emerged; condition good. Barley in Maine 100% planted, 100% 1996, 95% emerged; condition good. Shade tobacco 100% planted, 100% 1996, 100% avg.; condition good. Broadleaf tobacco 90% planted, 90% 1996, 95% avg.; condition good. 1st cut hay 70% harvested, 50% 1996, 70% avg.; condition good to fair. 2nd cut hay: <5% planted, 0% 1996, <5% avg.; condition excellent to good. Cranberries fruit set average; condition good. Highbush blueberries fruit set average to above average; fruit size average to below average; condition good. Wild blueberries fruit set above average; condition good. Strawberries 25% harvested; fruit set average; fruit size average to below average; condition good. Pears fruit set average; fruit size average; condition good. Apples fruit set

average to above average; fruit size average; condition good to excellent. Peaches fruit set average to below average; fruit size average to below average; condition good to fair. Many farmers finished their first cutting of hay last week, reported lower than normal yields. Many spring vegetables were harvested, successive plantings took place. Field, fruit crops enjoyed a warm week, very good for growth, pollination, although the lack of rain had farmers running irrigation systems throughout the week. The hot weather has dried out many areas, rain is now needed to maintain quality of crops. Major farm activities: Harvesting strawberries, lettuce, spinach, rhubarb, asparagus, peas; sidedressing corn; spreading manure on cut fields; spraying for weed control; irrigating.

NEW JERSEY: Days suitable for fieldwork 7. Topsoil short to adequate. Farmers are busy implementing pest control measures, irrigating, planting, harvesting. Late summer vegetables are being planted after the spring crop has been harvested. Harvesting of lettuce (all types), spinach, leeks, herbs, parsley, turnips, endive, escarole, beets, cabbage (all types), peas, kale, pickles, cucumbers, fava beans, squash and swiss chard. Light harvest of tomatoes reported in some areas. Early planted field corn about 12 to 18 inches in height. Cutting, baling of, hay continues. Wheat, barley are brown with some harvesting of wheat, barley reported. Pastures reported in fair to good condition. Blueberries continue to size well with some harvest of the early varieties (blue variety) occurring. Peaches, apples also sizing well. Harvesting of strawberries is nearly complete.

NEW MEXICO: Days suitable for fieldwork 6.8. Topsoil 2% very short, 24% short, 73% adequate, 1% surplus. Planting of sorghum nearing completion with 97% of the crop in the ground, 85% 1996, 87% avg. Rainfall covered most of the State last week causing delays to the hay harvest. Second cutting of alfalfa was 75% complete, third cutting continued with 21% completed. Alfalfa 6% poor, 19% fair, 66% good, 9% excellent. Wheat harvest was slowed by last week's precipitation, advanced to 36% complete, 76% 1996, 65% avg. Wheat 4% poor, 15% fair, 72% good, 9% excellent. After a slow start warm weather is helping the cotton crop mature. Cotton 10% poor, 26% fair, 52% good, 12% excellent; 68% squaring, 77% 1996, 50% avg. Onion harvest reached 44% complete, 51% 1996; 7% fair, 55% good, 38% excellent. Chile pod set 84% avg.; 9% poor, 21% fair, 52% good, 18% excellent. Corn condition improved to 10% fair, 75% good, 15% excellent. Cattle, sheep continued to be in mostly good condition. Range, pasture feed conditions remained steady at 2% very poor, 4% poor, 31% fair, 58% good, 5% excellent.

NEW YORK: Days suitable for fieldwork 5.3. Soil moisture 53% short, 38% adequate, 9% surplus. Corn 98% planted, 98% 1996, 100% avg. Hay harvest in full swing. Alfalfa 81% cut, 85% 1996, 79% avg. Clover-timothy 68% cut, 65% 1996, 65% avg. Grass silage is 84% cut, 74% 1996, 83% avg. Hay 13% poor, 40% fair, 47% good. Soybeans 93% planted. Vegetable planting is nearly complete, with crops in good condition. Rain is needed in the Eastern part of the State, where weed control is becoming ineffective. Apples are sizing up in those areas which received rainfall. The peach crop was reported in excellent condition, except for some northern areas that had earlier frost damage.

NORTH CAROLINA: Days were suitable for fieldwork 5.8. Normal hot summer temperatures continued this week. Summer weather pattern causes many localized weather conditions. Some areas need more rain while others have too much. Most farmers were able to work the fields all week, except for the occasional thunderstorm. Soil moisture 18% very short, 37% short, 39% adequate, 6% surplus. Activities included: Planting sorghum, soybeans, sweet potatoes, Burley tobacco; fertilizer, herbicide applications on corn; harvesting small grains, Irish potatoes, peaches; cutting hay; maintaining pastures; tending livestock; repairing equipment; general farm maintenance.

NORTH DAKOTA: Days suitable for fieldwork 6. Widely spread rain showers, above normal temperatures helped to improve late season crop conditions. Topsoil moderately replenished, but continue to be much drier than last year and average. Topsoil 13% very short, 31% short, 52% adequate, 4% surplus. Subsoil 6% very short, 24% short, 64% adequate, 6% surplus. Small grain development was ahead of last year, but slightly behind average. Durum wheat 61% jointing and

beyond, 36% boot and beyond, 11% heading and beyond; 39%, 14%, 4% 1996; 62%, 30%, 10% avg. Late season crops: canola 98% emerged and beyond, 63% rosette, beyond, 17% blooming and beyond; 100%, 71%, 13% 1996; dry edible beans 2% blooming and beyond, 0% 1996, 1% avg.; flaxseed 8% blooming and beyond; 2% 1996; 3% avg.; potatoes 100% emerged and beyond, 2% blooming and beyond; 100%, 2% 1996; 99%, 6% avg.; soybeans 0% blooming and beyond; 0% 1996; 1% avg.; sunflower 100% emerged and beyond; 99% 1996; 98% avg. Small grain conditions deteriorated during the week, while soybeans, corn, dry edible beans, sugar beet conditions slightly improved. Emerged crop condition: durum 9% very poor, 30% poor, 35% fair, 25% good, 1% excellent; canola 12% very poor, 25% poor, 30% fair, 30% good, 3% excellent; corn 9% poor, 17% fair, 60% good, 14% excellent; dry edible beans 3% poor, 27% fair, 64% good, 6% excellent; flaxseed 5% very poor, 18% poor, 40% fair, 36% good, 1% excellent; potatoes 11% poor, 24% fair, 63% good, 2% excellent; soybeans 2% poor, 18% fair, 61% good, 19% excellent; sugar beets 4% poor, 22% fair, 71% good, 3% excellent; sunflower 1% very poor, 9% poor, 26% fair, 55% good, 9% excellent. Pasture feed 14% very poor, 41% poor, 32% fair, 11% good, 2% excellent.

OHIO: Days suitable for fieldwork 5.7. Topsoil 1% very short, 11% short, 78% adequate, 10% surplus. Corn development stage at 5 to 6 leaves. Growers have planted nearly all of their soybeans. Soybeans 95% emerged, 70% 1996, 91% avg. Soybean emergence above 95% west central, central, southwestern districts. About 1% of the soybean plants are blooming. Oats headed increased 34 points from the previous week, 4 days ahead of last year. Winter wheat 60% turning color, 59% 1996, 79% avg.; 1% ripe. Alfalfa hay 1st cutting 89%, 77% 1996, 93% avg. Alfalfa hay 2nd cutting 5%, 4% 1996, 15% avg. Other hay 1st cutting 78%, 62% 1996, 85% avg. Other hay 2nd cutting 2%, 4% 1996, 7% avg. Strawberries 65% harvested, 67% 1996, 79% avg. Activities included: Cultivating; applying nitrogen, anhydrous ammonia; spraying herbicides, pesticides; mowing ditches; baling, green chopping hay; scouting; some replanting, planting; preparing equipment for harvest. In the southern part of the State, some growers were harvesting cabbage, squash. Some farmers were setting tobacco plants. Main weed problems were Canadian thistles, foxtail, morning glory, common lambsquarter, ragweed. In the southern part of the State, European corn borers were laying eggs on the sweet corn. In the Northwestern district, one reporter indicated a 10 to 63% European corn borer infestation. Other reported pests were potato leaf hopper on alfalfa, flea beetle. Reported diseases were early blight found on tomatoes, brown spots found on tobacco. Crop conditions are still showing signs of improvement over the previous week's conditions. In the northwestern district, some winter wheat was reported down due to heavy winds, rain. Washington county's sweet corn should be ready by the 4th of July. Pasture, grass conditions were reported overgrown due to the moisture levels. There was also a report of wet, soft spots in low lying areas. Hay 1% very poor, 5% poor, 30% fair, 53% good, 11% excellent. Livestock 1% very poor, 2% poor, 21% fair, 58% good, 18% excellent. Fly activities around the livestock are increasing. The high heat has reduced feed consumption. One reporter said there were several reports of sick cattle on feed lots this last week.

OKLAHOMA: Days suitable for fieldwork 4.9. Topsoil moisture 9% short, 78% adequate, 13% surplus. Subsoil moisture 6% short, 87% adequate, 7% surplus. Scattered showers interfered with wheat harvest. Wheat 19% plowed, 60% 1996, 38% avg.; oats 46% harvested, 93% 1996, 59% avg.; 12% plowed, 57% 1996, 26% avg.; corn 10% tasseling, 69% 1996, 35% avg.; 2% milk-to-soft, 11% 1996, 8% avg.; sorghum 57% up-to-stand, 72% 1996, 75% avg.; Soybeans 88% planted, 97% 1996, 75% avg.; 71% up-to-stand, 87% 1996, 62% avg.; 3% flowering, 14% 1996, 7% avg.; Peanuts 99% planted, 98% 1996, 95% avg.; 96% up-to-stand, 93% 1996, 86% avg.; cotton 99% up-to-stand, 97% 1996, 89% avg.; alfalfa hay 62% 2nd cutting, 72% 1996, 64% avg.; 9% 3rd cutting, 14% 1996, 9% avg.; all other hay 64% 1st cutting, 57% 1996, 74% avg.; watermelons 99% running, 99% 1996, 81% avg.; 79% set fruit, n/a 1996, n/a avg.; livestock 2% poor, 16% fair, 74% good, 8% excellent. Fed cattle prices down \$1.00.

OREGON: Days suitable for fieldwork 6.8. Topsoil 1% very short, 13% short, 86% adequate. Subsoil 14% short, 86% adequate. Winter

wheat 3% poor, 9% fair, 58% good, 30% excellent; 100% headed, 99% 1996, 100% avg. Activities: Western areas grass seed being swathed and haying continued weather permitted. Grain crops turning color and mint in bloom. Eastern areas working fallow fields and haying underway. Mint being harvested in northeast. Recent rains reduced irrigation requirements for nurseries. Potted plant movement increased. Christmas tree spraying for insects underway. South coast Easter lily growers liming field in preparation for planting. Willamette Valley: processing crops growing vigorously, sweet corn knee high and first planting green beans blooming. Cauliflower planting continued and carrots, beets, green beans and zucchini for fresh market being harvested. Strawberry harvest continued, raspberry and early blackberry harvest underway. Tart cherry harvest completed, sweet cherry harvest continued with some splitting. Klamath Basin potatoes flowering. Northeast chipper harvest started. Sweet cherry harvest winding down in Mid-Columbia. Livestock mostly good to excellent. Cattle turn out continued in high elevation rangelands. Recent rains improved western pastures. Irrigation to pastures continued in southwest and east. Cool nights slowed grass development in southeast.

PENNSYLVANIA: Good week for fieldwork. Days suitable for fieldwork 5.7. Soil moisture 7% very short, 30% short, 60% adequate, 3% surplus. Corn height 17 in., 22 in. 1996, 18 in. avg.; 7% poor, 30% fair, 53% good, 10% excellent. Tobacco transplanted 93% complete, 95% 1996, 96% avg. Soybeans planted 97% complete, 89% 1996, 92% avg.; 4% poor, 22% fair, 60% good, 14% excellent. Barley 94% turning yellow, 94% 1996, 80% avg.; 67% ripe, 70% 1996, 52% avg.; 35% harvested, 40% in 1996, 28% avg. Wheat 65% turning yellow, 74% 1996, 59% avg.; 23% fair, 60% good, 17% excellent. Oats 65% heading or headed, 71% 1996, 41% avg.; 10% turning yellow, 18% 1996, 9% avg.; 5% poor, 30% fair, 50% good, 15% excellent. Alfalfa 1st cutting 83% complete, 81% 1996, 86% avg.; 2nd cutting 20% complete, 27% 1996, 19% avg. Timothy clover 1st cutting 62% complete, 57% 1996, 68% avg. Quality of hay made 4% poor, 17% fair, 50% good, 29% excellent. Peach 5% very poor, 20% poor, 25% fair, 50% good. Apple 10% poor, 25% fair, 65% good. Activities: Finishing soybean planting; harvesting small grains; making hay and haylage; spraying; fixing fences; hauling manure; caring for livestock.

SOUTH CAROLINA: Soil moisture 2% very short, 15% short, 77% adequate, 6% surplus. Barley 95% harvested, 94% 1996, 84% avg.; 10% fair, 75% good, 15% excellent. Cantaloupes 22% poor, 39% fair, 37% good, 2% excellent. Corn 83% silked, 87% 1996, 79% avg.; 42% doughed, 36% 1996, 32% avg.; 2% poor, 15% fair, 63% good, 20% excellent. Cucumbers 61% harvested, 70% 1996, 68% avg.; 4% poor, 43% fair, 48% good, 5% excellent. Oats 99% ripe, 100% 1996, 98% avg.; 97% harvested, 97% 1996, 90% avg.; 18% fair, 76% good, 6% excellent. Peaches 38% harvested, 30% 1996, 28% avg.; 1% very poor, 1% poor, 38% fair, 52% good, 8% excellent. Rye 97% harvested, 94% 1996, 82% avg.; 1% poor, 6% fair, 37% good, 56% excellent. Snap Beans 100% planted, 100% 1996, 97% avg.; 50% harvested, 38% 1996, 35% avg.; 10% fair, 80% good, 10% excellent. Sorghum 86% planted, 89% 1996, 76% avg.; 4% fair, 76% good, 20% excellent. Soybeans 90% planted, 88% 1996, 84% avg.; 19% fair, 68% good, 13% excellent. Sweet potatoes 100% planted, 100% 1996, 85% avg.; 27% fair, 73% good. Tobacco 51% topped, 51% 1996, 55% avg.; 1% poor, 17% fair, 74% good, 8% excellent. Tomatoes 21% fair, 66% good, 13% excellent. Watermelons 38% harvested, 41% 1996, 40% avg; 3% poor, 30% fair, 73% good. Winter wheat 90% ripe, 100% 1996, 99% avg.; 80% harvested, 95% 1996, 90% avg.; 1% poor, 11% fair, 73% good, 15% excellent.

SOUTH DAKOTA: Days suitable for fieldwork 5.4. Topsoil 3% very short, 24% short, 65% adequate, 8% surplus. Subsoil 1% very short, 4% short, 75% adequate, 20% surplus. Winter wheat 96% boot, 94% headed, 10% turning color. Spring wheat 75% boot, 38% headed. Winter rye 93% headed, 20% turning color; 8% very poor, 4% poor, 38% fair, 40% good, 10% excellent. Alfalfa hay 2% very poor, 6% poor, 27% fair, 47% good, 18% excellent. Flax 1% very poor, 42% fair, 52% good, 5% excellent. Sorghum 7% poor, 37% fair, 44% good, 12% excellent. Sunflowers 2% very poor, 6% poor, 24% fair, 48% good, 20% excellent; 94% planted. Flax 100% emerged. Livestock 1% poor, 7% fair, 70% good, 22% excellent. Feed supplies 1% very short, 10%

short, 78% adequate, 11% surplus. Stockwater supplies 1% short, 71% adequate, 28% surplus.

TENNESSEE: Days suitable for fieldwork 4.0. Topsoil 71% adequate, 29% surplus. Subsoil 71% adequate, 29% surplus. Farmers finally had enough good weather to get some fieldwork done. Although progress and development of crops are not up to the average pace, farmers were pleased to get into fields and make some progress. Corn 2% very poor, 6% poor, 25% fair, 50% good, 17% excellent; 11% tasseled, 51% 1996, 38% avg. Tobacco 2% very poor, 13% poor, 40% fair, 43% good, 2% excellent; 82% transplanted, 96% 1996, 99% avg. Wheat 96% ripe, 99% 1996, 99% avg.; 51% harvested, 82% 1996, 81% avg. Sorghum 2% poor, 34% fair, 60% good, 4% excellent; 92% planted, 100% 1996, 100% avg. Pasture 2% poor, 20% fair, 59% good, 19% excellent. Alfalfa hay 1% very poor, 4% poor, 26% fair, 56% good, 13% excellent; 94% first cutting, 100% 1996, 100% avg. Other hay 3% very poor, 8% poor, 35% fair, 46% good, 8% excellent. Tobacco disease 17% none, 37% light, 41% moderate, 5% severe. Tobacco transplant supplies 13% very short, 37% short, 49% adequate, 1% surplus.

TEXAS: Early-week rains slowed fieldwork, but by midweek open, warmer conditions returned to most areas. Very heavy rains across portions of the Hill Country caused flood damage. The return to warmer conditions aided growth and crop maturation in most areas. Some replanting occurred in parts of the North Central area due to high winds and recent heavy rains. Haying activity continued to increase, but much of the hay was rained on before it was baled. Livestock conditions remained very good across the State, with good weight gains reported for cattle and sheep. Small Grains: Harvest was underway in High Plains as fields dried. Early yield indications were good. Some fields remained for harvest in the north and central areas, where wet fields delayed final harvest operations. Corn fields in most areas continued to make good progress. Producers irrigated their fields in the High Plains, many for first time. Some corn borer activity was experienced. Fields were rapidly moving into the dough stage in the central areas. More fields in Coastal Bend moved into the dent stage as were early-planted fields along the Upper Coast. Harvest was getting underway in few fields in the Valley area. However, scattered rain slowed progress. Crop progress was 28% doughing, compared with 44% in 1996 and the 42% avg.; and 7% dented, compared with 19% in 1996 and the 18% avg. Cotton fields in the Plains benefited from rain in the early week. However, isolated heavy amounts along with high winds caused damage to young fields. Some replanting was necessary. Fields improved in the central areas, with some spraying completed. Bolls were setting in many central and coastal areas. Fields were catching up to normal progress in many Upper Coast fields. Crop progress was 8% setting bolls, compared with 15% in 1996 and 14% avg. Grain Sorghum: A few late fields were planted in parts of the Low Plains. Growth was good in most fields throughout the State. Midge shown up in many fields, and spraying occurred. Fields were beginning to turn color in parts of the Central area. Harvest should begin soon in the Coastal Bend area as conditions allow. Harvest is underway in a few fields in the Valley area. However, early-week rains slowed progress, which was 41% headed, compared with 53% in 1996 and the 57% avg.; 18% was turning color, compared with 31% in 1996 and the 34% avg.; and 2% was mature, compared with 15% in 1996 and the 14% avg. Peanuts needed more hot, dry weather in the Plains for continued progress. Some fields were damaged by high water in the Hill Country, otherwise progress was good on the other fields. Planting was delayed in the southern areas by early-week rain. Progress in the early fields was good. Rice fields were showing good progress along the Upper Coast. Some sheath blight showed up in scattered fields. Soybeans planting occurred in the late-week in the High Plains. Early-planted fields made good progress. Some late planting also occurred along the Upper Coast. An excellent pod set was occurring. Sugarbeet fields continued to make good progress.

Commercial Vegetables: In the Rio Grande Valley, scattered rains slowed harvest for many vegetables in the week. San Antonio-Winter Garden, harvest of watermelons increased by midweek. Onion harvest was winding down. In the High Plains, progress was good for most vegetables. In the east, most sweetpotatoes were planted. Wet, humid conditions increased disease problems for some vegetables. In the

Trans-Pecos, progress was good for most vegetables. However, some disease problems showed up. Peaches: Harvest continued for many varieties, with brown rot still causing problems. Pecans: Second generation casebearers continued to populate in many groves. However, numbers seem lower than normal. Producers in most areas continued to report heavy sets. Moisture was the critical factor to hold the crop as summer goes on. Current moisture conditions were good in most areas.

Range and Livestock: Haying activity continued, with some producers reporting that hay was getting wet before baling. Yields have been very good in most areas. Livestock conditions remained good across the State, with flies being the major problem.

UTAH: Days suitable for fieldwork 6.8. Topsoil 25% short, 73% adequate, 2% surplus. Subsoil 15% short, 71% adequate, 14% surplus. Pasture feed, range 2% poor, 7% fair, 77% good, 14% excellent. Irrigation water supplies 75% adequate, 25% surplus. Stockwater 82% adequate, 18% surplus. Spring wheat heading or better 86%, 85% 1996, 83% avg. Barley heading or better 85%, 90% 1996, 85% avg. Oats heading or better 40%, 45% 1996, 49% avg. Corn height 21 in., 21 in. 1996, 19 in. avg. Alfalfa hay 1st cutting 89%, 92% 1996, 91% avg. Other hay cutting 38%, 25% 1996, 35% avg. Sweet cherries picked 10%, 11% 1996. Major farm, ranch activities were: Hay cutting, irrigating, picking sweet cherries.

VIRGINIA: Days suitable for fieldwork 6.3. Topsoil 20% very short, 40% short, 40% adequate. Subsoil 15% very short, 40% short, 45% adequate. Corn 3% very poor, 27% poor, 39% fair, 29% good, 2% excellent. Soybeans 62% planted, 59% 1996, 67% avg. Cotton 4% very poor, 17% poor, 57% fair, 22% good. Winter wheat 40% harvested, 31% 1996, 36% avg.; 2% very poor, 6% poor, 38% fair, 49% good, 5% excellent. Barley 75% harvested, 68% 1996, 80% avg.; 4% poor, 31% fair, 55% good, 10% excellent. Apples 5% very poor, 15% poor, 30% fair, 45% good, 5% excellent. Peaches 25% very poor, 35% poor, 20% fair, 20% good. Flue tobacco 7% poor, 40% fair, 45% good, 8% excellent. Burley tobacco transplanted 97%, 98% 1996, 96% avg.; 5% very poor, 15% poor, 40% fair, 40% good. Dark fire cured tobacco 3% poor, 43% fair, 49% good, 5% excellent. Peanuts pegged 6%, 9% 1996; 50% fair, 50% good. Summer potatoes harvested 2%, 9% 1996, 4% avg.; 7% very poor, 30% poor, 33% fair, 30% good. Pasture feed 7% very poor, 22% poor, 38% fair, 29% good, 4% excellent. Alfalfa 9% poor, 36% fair, 51% good, 4% excellent. Other hay 17% poor, 48% fair, 32% good, 3% excellent. Crops previously stressed, behind schedule due to cool spring faced temperatures in mid-nineties early part of week. High temperatures coupled with already dry conditions caused crops to suffer. Variable, scattered showers moving ahead of cool front brought much needed relief to some areas 26th evening. In some areas, these were first showers received in almost a month. Some producers were waiting on showers to plant double crop soybeans. Wheat harvest continues, yields varying from fair to record highs. Cotton, corn producers applying insecticides, side dressing crops with fertilizer. Harvest of vegetable crops continues. Land plaster being applied to peanut acreage. Flue, burley tobacco producers continue to monitor, treat crops for blue mold. Tobacco being sprayed, cultivated, layed by. Other activities include maintaining irrigation equipment, baling wheat straw, harvesting hay.

WASHINGTON: Days suitable for fieldwork 5.4. Topsoil 5% short, 80% adequate, 15% surplus; subsoil 2% short, 96% adequate, 2% surplus. Winter wheat 99% headed, 99% 1996, 100% avg. Winter wheat dryland 5% fair, 80% good, 15% excellent; irrigated 80% good, 20% excellent. Spring wheat, dryland 5% fair, 80% good, 15% excellent; irrigated 93% good, 7% excellent. Barley dryland, 10% fair, 80% good and 10% excellent; irrigated 98% good, 2% excellent. Corn 100% good. Spring, winter grains reported to have excellent potential.

Weather conditions have been ideal for grain fill, some late planted spring grain crops need warm weather to hasten development which is as much as three weeks behind normal. Dry beans 100% planted, 100% 1996, 100% avg. Potatoes 2% fair, 98% good. Early planted potatoes were in bloom stage and a few areas reported early harvest beginning. Hay, other roughage 2% very short, 20% short, 74% adequate, 4% surplus. Alfalfa hay cutting progressed rapidly as weather permitted, but remained 2 weeks behind normal. Alfalfa weevils were a problem due to late cutting. A large percentage of the timothy hay had been rained on, decreasing quality. Range, pasture feed 5% poor, 20% fair, 65% good and 10% excellent. Greenchop and silage harvest continued. Range, pasture growth was excellent across the State. Some land is still flooded in the northeast. Strawberry harvest wound down, raspberry harvest continued in western areas. Irrigation was limited because of wet conditions. Severe hail hit eastern areas 28th causing an estimated \$35 million-45 million damage to orchards. Cherry growers reported excellent potential for a large, high quality cherry crop. Green pea harvest continued, asparagus harvest was complete.

WEST VIRGINIA: Days suitable for fieldwork 5.1. Topsoil 1% very short, 12% short, 87% adequate. Corn 9% poor, 35% fair, 55% good, 1% excellent; corn planting virtually complete. Hay 5% poor, 33% fair, 57% good, 5% excellent; 1st cutting of hay 70%, 65% 1996, 75% avg.; 2nd cutting 1%, 1% 1996. Producers took advantage of mostly open weather, were busy making hay. Oats 10% poor, 44% fair, 45% good, 1% excellent; 78% headed, 58% 1996. Soybeans 47% fair, 53% good; 95% planted, 90% 1996, 91% avg. Tobacco 4% poor, 15% fair, 78% good, 3% excellent; transplanted 97%, 99% 1996, 99% avg. Wheat 1% poor, 66% fair, 33% good; 5% harvested, 1% 1996. Apple 56% fair, 37% good, 7% excellent. Peach 16% poor, 84% fair. Cattle 15% fair, 78% good, 7% excellent. Sheep 8% fair, 87% good, 5% excellent. Activities: Planting soybeans, transplanting tobacco, making hay, harvesting wheat, general maintenance.

WISCONSIN: Days suitable for fieldwork: 4.5. Soil moisture 3% very short, 13% short, 75% adequate, 9% surplus. Rainfall in the past two weeks helped make up for the lack of moisture early in the season. Soybeans 3% poor, 18% fair, 63% good, 16% excellent. Cranberries coming into bloom and ahead of seasonal averages according to Wood County reporters. Insect pressure evident in many crops, as well as pressure from deer, sandhill cranes, turkeys an Outagamie County reporter said. First crop hay harvest nearing end at 85% finished. Difficulties drying hay due to showers, humidity, but second crop off to a good start with the recent rains. Pasture feed 1% very poor, 7% poor, 23% fair, 61% good, and 8% excellent. Winter wheat 1% poor, 10% fair, 63% good, 26% excellent.

WYOMING: Days suitable for fieldwork 6.7. Topsoil 2% very short, 20% short, 76% adequate, 2% surplus. Winter wheat 51% turning color, 42% 1996, 30% avg.; 8% fair, 67% good, 25% excellent. Barley 69% headed, 58% 1996, 59% avg.; 3% turning color, 2% 1996, 7% avg.; 15% fair, 84% good, 1% excellent. Oats 73% boot, 76% 1996, 68% avg.; 31% headed, 35% 1996, 32% avg.; 2% turning color, 6% 1996, 3% avg.; 8% fair, 91% good, 1% excellent. Spring wheat 47% headed, 39% 1996, 39% avg.; 6% turning color, 4% 1996, 6% avg.; 9% fair, 78% good, 13% excellent. Sugar beets 96% thinned, 91% 1996, 88% avg.; 1% fair, 81% good, 18% excellent. Corn average height in inches 23, 16in. 1996; 5% fair, 43% good, 52% excellent. Dry beans 100% emerged, 93% 1996, 89% avg.; 1% fair, 84% good, 15% excellent. Alfalfa 41% 1st cutting complete, 44% 1996, 42% avg. Other hay acreage harvested 14% complete, 14% 1996, 15% avg. Stock water supplies 1% short, 94% adequate, 5% surplus. Range, pasture feed 2% poor, 4% fair, 81% good, 13% excellent. Livestock are in mostly good condition.

International Weather and Crop Summary

June 22 - 28, 1997

HIGHLIGHTS

FSU-WESTERN: Weather conditions continued to be favorable for crop growth and development throughout the region.

FSU-NEW LANDS: Significant showers in eastern Kazakstan and adjacent areas in Russia improved moisture conditions for spring grains nearing the heading stage.

EUROPE: Unseasonably cold, wet weather persisted in the northwest, slowing crop development and likely causing some lodging of winter grains.

AUSTRALIA: Beneficial rain covered winter grain areas of New South Wales, but the remainder of the southeast stayed prohibitively dry.

CANADA: As Alberta's northern crops remained unfavorably wet, pockets of unfavorable dryness returned to the southern Prairies.

SOUTH ASIA: Rain in central and eastern India improved groundnut and rice prospects, but heat and dryness persisted in southern locations.

SOUTHEAST ASIA: Showers benefited rice across eastern Thailand, Vietnam, and the Philippines, but more rain is needed in central Thailand.

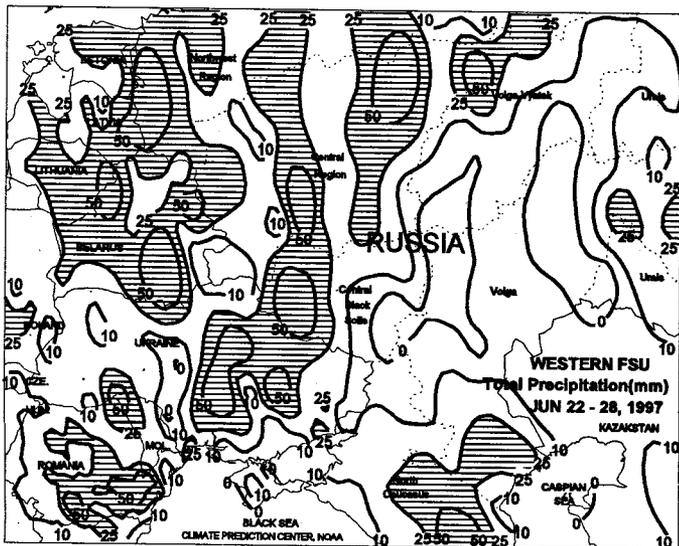
EASTERN ASIA: Cooler weather eased heat stress across the North China Plain.

SOUTH AMERICA: Cool, mostly dry weather prevailed across central Argentina, and showers benefited Brazilian winter wheat.

MEXICO: Widespread showers benefited corn as the rainy season finally began.

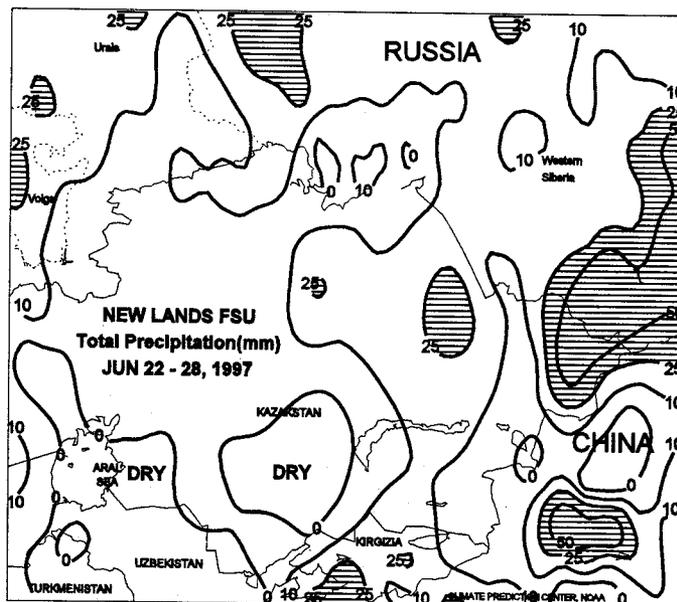
FSU-WESTERN

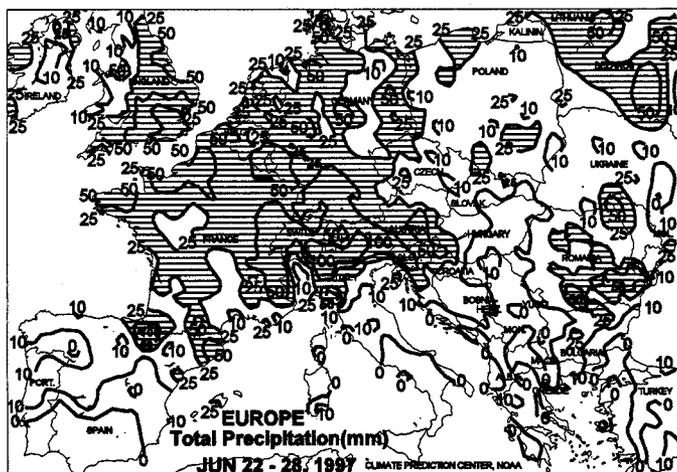
Growing conditions continued favorable for crops throughout the region. Crop progress for winter grains likely ranged from maturing in southern Ukraine and southern Russia to filling over the remainder of the region. Spring grains were likely filling in the southern half of Ukraine and southern Russia, and in or nearing reproduction over northern Ukraine, northern Russia, and Belarus. Summer crops (corn, sunflowers, and sugar beets) were likely in the vegetative stage. In most of Ukraine, precipitation amounts generally ranged from 10 to 50 mm, with scattered amounts in excess of 50 mm. Mostly dry weather in extreme southern Ukraine benefited winter grain maturation and early harvest activities. In Russia, widespread showers (10-50 mm, with local amounts in excess of 50 mm) benefited crops in the Northwest Region, Central Region, and the Central Black Soils Region. Although unseasonably warm, dry weather prevailed over the middle Volga Valley and the southern portion of the Volga Vyatsk region, soil moisture reserves were adequate to sustain normal crop development. Elsewhere, mild weather and generous rains (13-57 mm) in Belarus and the Baltics benefited winter and spring grains.



FSU-NEW LANDS

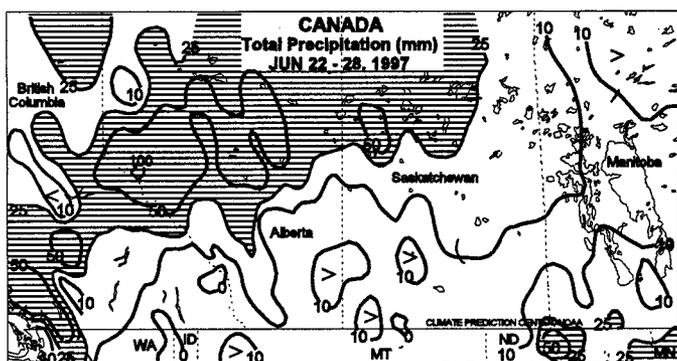
In Russia, light showers in the Urals and the western two-thirds of Western Siberia maintained favorable moisture conditions for spring grains in the jointing stage. Locally heavy rain (25-83 mm) in the Altay Kray region of Western Siberia boosted soil moisture reserves, lowered by previous hot, dry weather. In Kazakstan, light showers (5-22 mm) were accompanied by a warming trend. Locally heavy rain (more than 50 mm) in eastern Kazakstan boosted soil moisture reserves. Extreme maximum temperatures in Kazakstan ranged from 30 to 35 degrees C. Timely rain and mild weather will be needed in upcoming weeks in Kazakstan and Russia to ensure favorable yield prospects for spring grains nearing the heading stage.





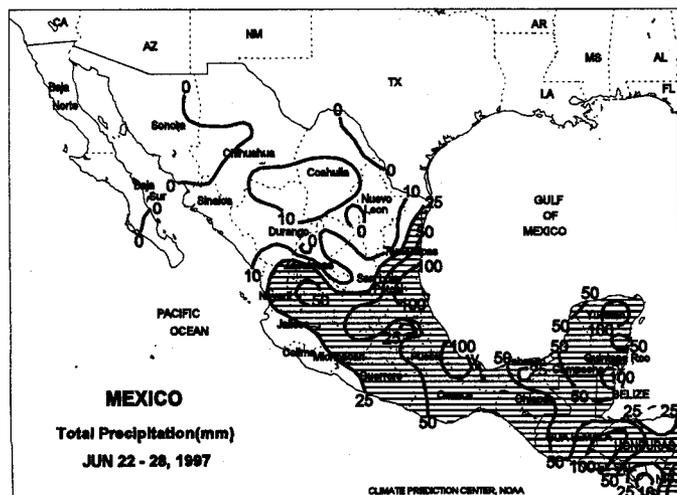
EUROPE

Rainfall increased (25-60 mm, with local amounts in excess of 75 mm) in England, France, and Germany, maintaining abundant moisture for winter grains and spring-sown crops. However, the wet weather has persisted for the past 3 weeks, increasing the potential for some crop lodging, especially for winter grains in more advanced stages of development. Weekly temperatures averaged 2 to 6 degrees C below normal in these areas, slowing crop development. Farther east, light showers (10-25 mm, with scattered amounts in excess of 25 mm) and near-normal temperatures in Poland, the Czech Republic, Slovakia, and Hungary provided nearly ideal growing conditions for winter grains likely in the filling stage and summer crops in the vegetative stage. In southeastern Europe, strong storms boosted soil moisture in Romania and Bulgaria but may have caused some lodging in maturing winter grains. Rainfall in these areas ranged from 10 to 25 mm, with locally higher amounts in excess of 50 mm. Seasonably dry weather prevailed over Mediterranean crop areas, aiding harvest activities. Hot weather (maximum temperatures ranging from 35 to 38 degrees C) continued to promote cotton development in Greece but increased irrigation requirements.



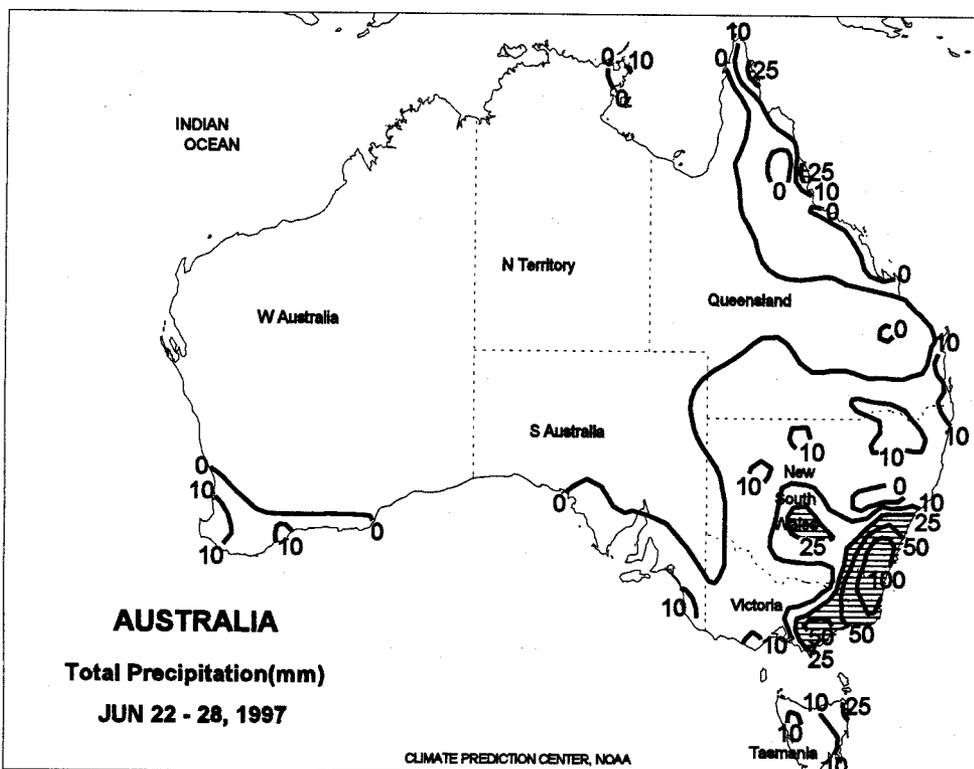
CANADA

Widespread showers (21-36 mm) kept spring grains and oilseeds unfavorably wet across Alberta's northern crop areas. Farther south, scattered showers (5-15 mm), accompanied by cooler-than-normal weather, broke a short dry spell in southern Alberta and adjacent sections of Saskatchewan. Moderate rain (10-25 mm) continued over Manitoba, but mostly dry weather covered a broad section of southeastern Saskatchewan. Near- to above-normal temperatures exacerbated topsoil drying. Many spring crop areas across the southern Prairies need additional rain for reproduction, which will likely occur from now until mid-July. In eastern Canada, warmer, drier weather aided crop development.



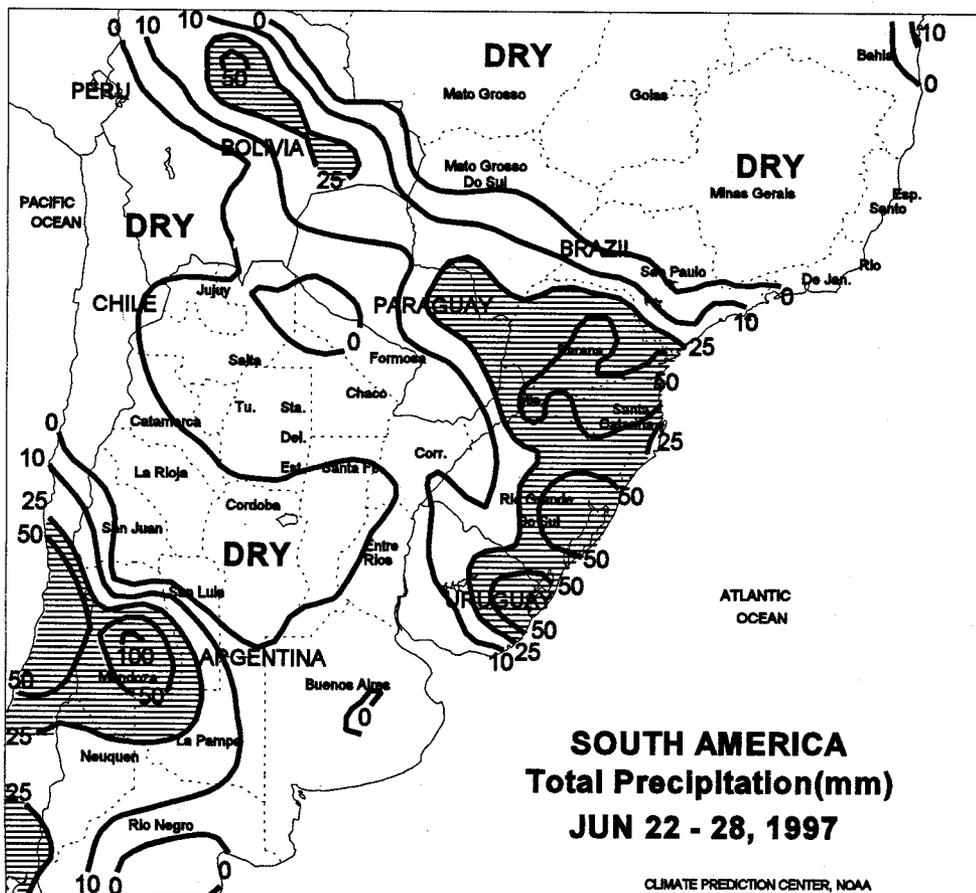
MEXICO

Widespread, moderate showers (20-50 mm) covered the main corn belt, favoring vegetative corn. This moisture finally signaled the start of the rainy season across south-central Mexico. Heavier showers (70-150 mm) fell across east-central Mexico, boosting moisture supplies for corn and sugarcane, but causing some local flooding. Seasonable showers (25-75 mm) prevailed across southern Mexico and Yucatan peninsula. Light rain (5-20 mm) continued to favor pastures across north-central Mexico. Temperatures averaged near normal across the main corn belt and 1 to 2 degrees C below normal across the northeast.



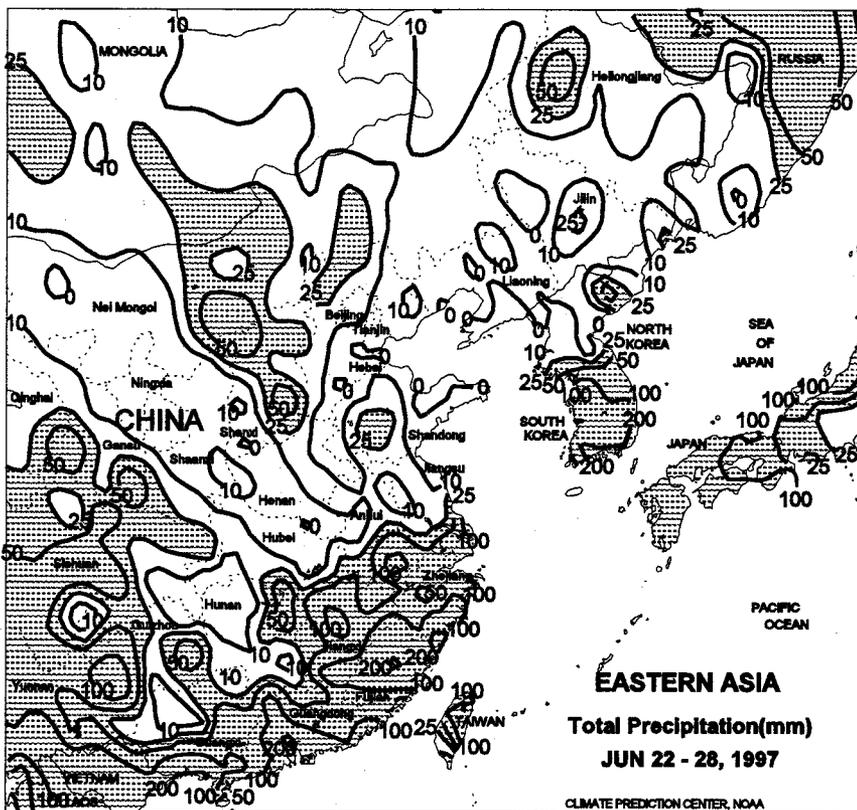
AUSTRALIA

Beneficial rain (5-25 mm) covered most winter wheat areas of New South Wales. However, only light rain (5 mm or less) fell from southernmost crop areas of New South Wales westward to South Australia. Mostly dry weather also continued in the winter grain belts of Western Australia and Queensland. Winter (June, July, and August) is the wettest time of year across southern Australia, and there is growing concern that the strengthening El Niño may extend the current dry spell into spring. While this scenario increases the likelihood of significant declines in yield potential, the timing of any rainfall received between now and harvest will have the greatest impact on overall production. Under present conditions, July rainfall will be critical not only for crop establishment but for the completion of fieldwork locally stalled by dryness. In New Zealand, rainfall was light (25 mm or less) throughout the main agricultural areas.



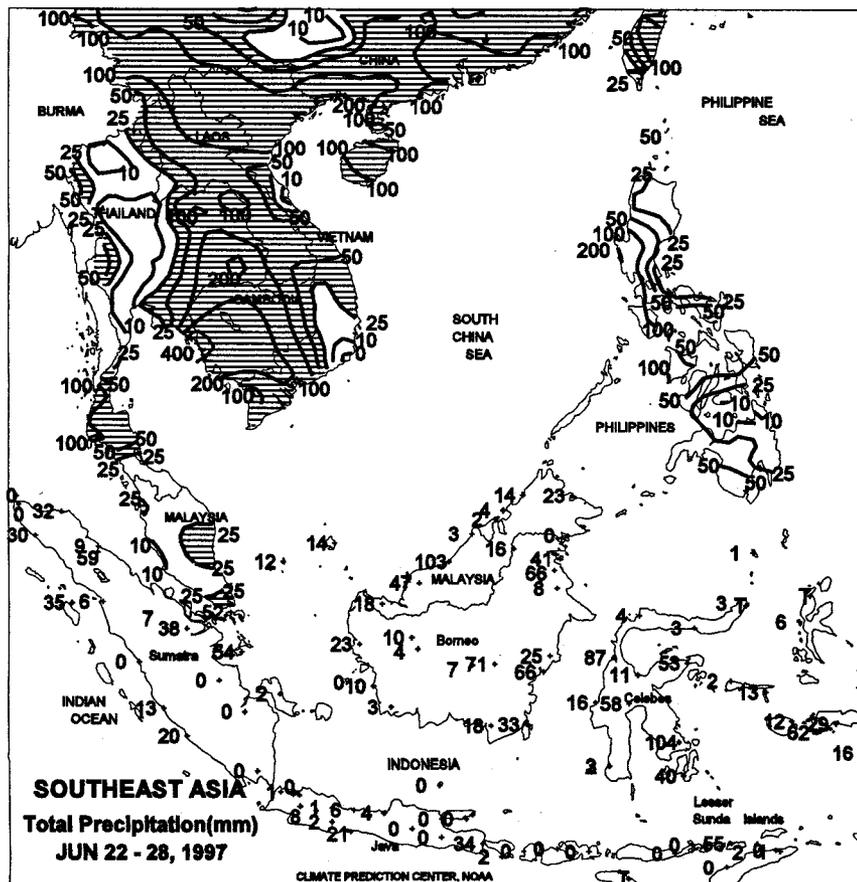
SOUTH AMERICA

Mostly dry, cool weather prevailed across central Argentina, allowing wheat planting to progress, but slowing wheat germination. By week's end, minimum temperatures ranged from 0 to -4 degrees C across the region. Most areas have received sufficient moisture for wheat planting, except for southern Cordoba and southern Santa Fe. In southern Brazil, a slow-moving frontal system brought widespread beneficial rain (35-60 mm) to the main wheat areas of eastern Parana, Santa Catarina, and Rio Grande do Sul. Farther north, favorably warm, dry weather aided coffee and citrus harvesting. Temperatures averaged 1 to 2 degrees C below normal across Argentina and 2 to 4 degrees above normal across southern Brazil.



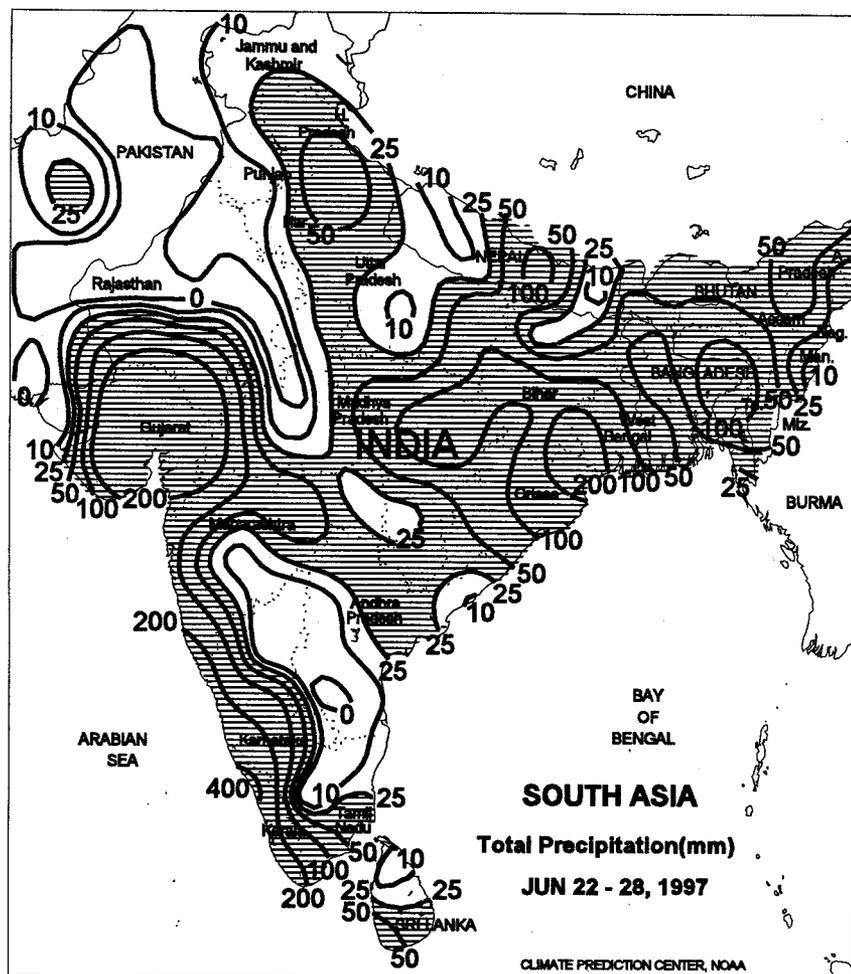
EASTERN ASIA

Favorably cooler weather eased stress on summer crops across the North China Plain. By mid-week, maximum temperatures ranged from 28 to 33 degrees C across the region. Light to moderate rain (5-20 mm) increased topsoil moisture but was still below normal for the end of June. However, on June 29, widespread rain (10-40 mm) covered the southern portion of the North China Plain, benefiting corn, soybeans, and cotton. In Manchuria, mostly dry weather prevailed across the southern crop areas, which have been tending dry during the past 2 to 3 weeks. The northern areas received 10 to 40 mm, favoring summer crops. Moderate to heavy showers (250-800 mm) continued to maintain favorable moisture supplies for early double-crop rice across southern China. Heavier showers (greater than 100 mm) likely caused some flooding across portions of Guangdong and Fujian. Rainfall in the main crop areas of western North Korea has been slightly below-normal during the past few weeks. Typhoon Peter hit southern Japan on June 28, with sustained winds of 55 knots (63 mph). The storm then traveled almost the entire length of the country before exiting across the eastern coast of northern Honshu. Winds diminished to under 40 knots (46 mph) by that time. Peter helped to produce widespread heavy rain (80-170 mm, with isolated amounts greater than 200 mm) across Japan. Peter also contributed to widespread rain (50-150 mm) in South Korea, boosting irrigation supplies. Temperatures averaged 1 to 3 degrees C above normal across most of China, the Korean Peninsula, and Japan.



SOUTHEAST ASIA

Below-normal rainfall (less than 25 mm) continued across central Thailand, stressing rainfed corn and rice. This region has received less than 30 percent of normal rainfall during the past 4 weeks. Warm weather (2-3 degrees C above normal) further stressed the crops in this region. However, showers (50-130 mm) covered eastern Thailand, benefiting rice. Widespread showers (30-100 mm) aided rainfed rice and boosted irrigation supplies across Vietnam and the Philippines. Moderate showers (20-40 mm) brought some relief to oil palm in eastern peninsular Thailand. In Indonesia, dry weather prevailed across Java and southern Sumatra, slowing corn planting. Typically, second-crop rice is planted during July and August, and corn is planted from mid-June to August.



SOUTH ASIA

Heavy rain (100-300 mm or greater) soaked primary crop areas in the western Indian state of Gujarat. While causing some localized flooding and possibly washing out recently planted crops such as cotton, the moisture was needed for groundnut planting. Seasonably heavy rain also fell along India's west coast, but farther inland, moderate showers (25-50 mm or more) were patchy at best throughout India's southern interior. In fact, hot, dry weather persisted over a large section of Andhra Pradesh, impeding summer crop planting. In central India, mostly dry weather favored soybean planting following last week's rain. Farther east, heavy rain (50-150 mm) covered a stretch of rainfed rice from eastern Madhya Pradesh to West Bengal, an area that monsoon rains had previously skipped. Generally beneficial showers fell elsewhere in primary rice areas of eastern India and Bangladesh. The monsoon, which has been making good northward progress, typically reaches northern India and Pakistan by mid-July.

ENSO Update: Strong El Niño

The following is based on the *El Niño/Southern Oscillation (ENSO) advisory issued on June 26, 1997, by the Climate Prediction Center, National Centers for Environmental Prediction.*

Strong warm (El Niño/Southern Oscillation) episode conditions have developed in the tropical Pacific. Sea surface temperature (SST) anomalies continued to increase during the first 3 weeks of June, accompanied by a further weakening of the low-level equatorial easterlies. During the first half of June, the easterly winds collapsed over the entire equatorial Pacific, and actual westerlies developed in the region. The only other time that this has happened in the last 30 years was in November 1982.

Equatorial SST anomalies greater than $+2^{\circ}\text{C}$ now cover the entire Pacific east of 160°W , while anomalies generally exceed $+3^{\circ}\text{C}$ along and near the west coast of South America from southern Peru northward to Ecuador. The recent increase in SST anomalies in the east and east-central tropical Pacific is consistent with weaker-than-normal equatorial easterlies and the observed pattern of anomalous convection.

The recent evolution to warm episode conditions is similar to that observed during early 1957 and early 1972. However, the

recent SST anomalies near the South American coast exceed those observed in either 1957 or 1972. In fact, since 1950, only the 1982-83 warm episode featured SST anomalies greater than those presently observed.

National Centers for Environmental Prediction statistical (CCA) and coupled model predictions issued in early June indicate that warm episode conditions will continue throughout the remainder of the year. Given the magnitude of the present SST anomalies, it is likely that typical warm episode temperature and precipitation anomalies found during past warm episodes should be observed during the next several months (see *Weekly Weather and Crop Bulletin*, May 13, 1997). In particular, it is expected to be drier than normal over Indonesia and India, and wetter than normal over the central tropical Pacific. Also, a stronger-than-normal South Pacific jet stream should develop and extend farther east than normal. Thus, central Chile and central Argentina, Uruguay, and southern Brazil are likely to experience a wetter-than-normal winter. Many of these features are already being observed.

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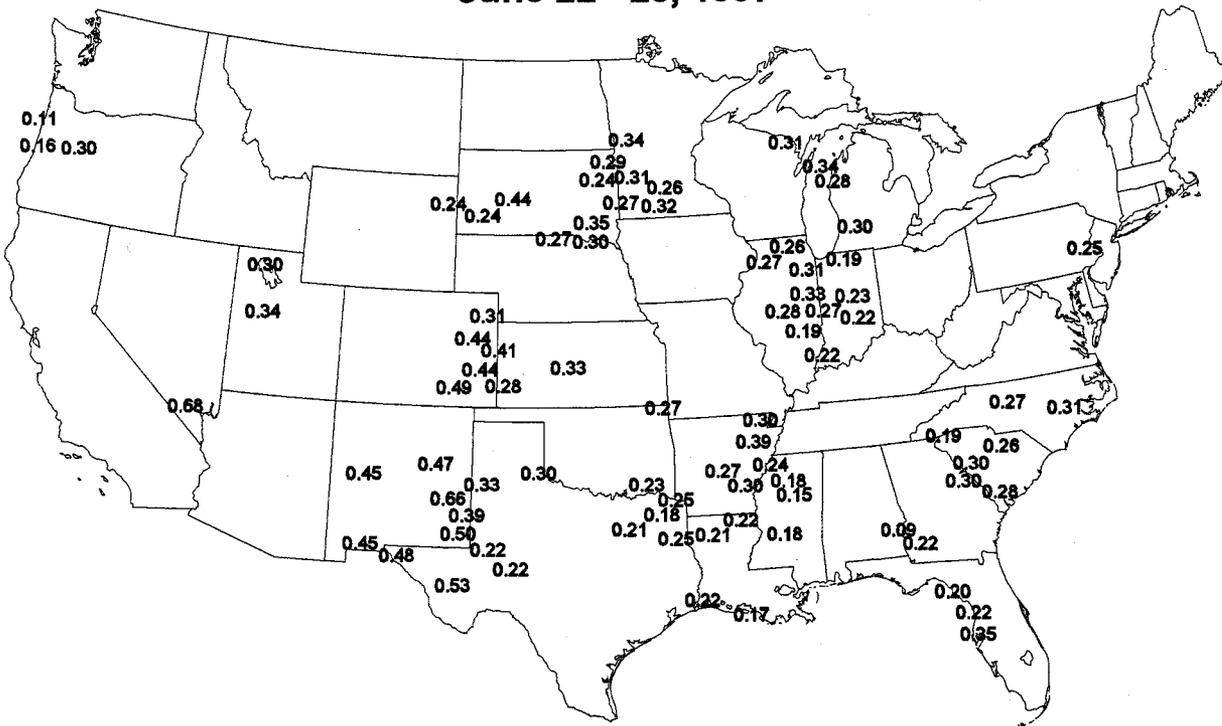
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Average Pan Evaporation (Inches/Day)

June 22 - 28, 1997



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