

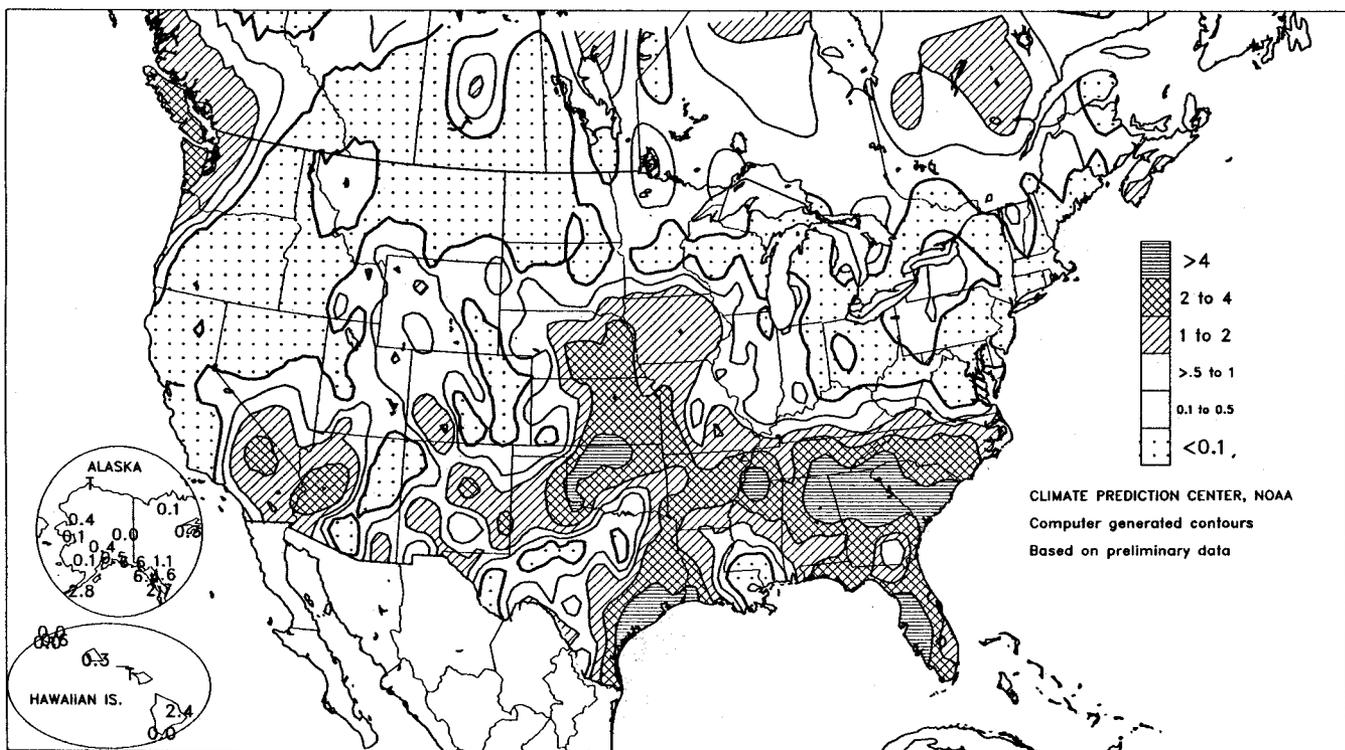
WEEKLY WEATHER AND CROP BULLETIN

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)

SEP 21 - 27, 1997



HIGHLIGHTS

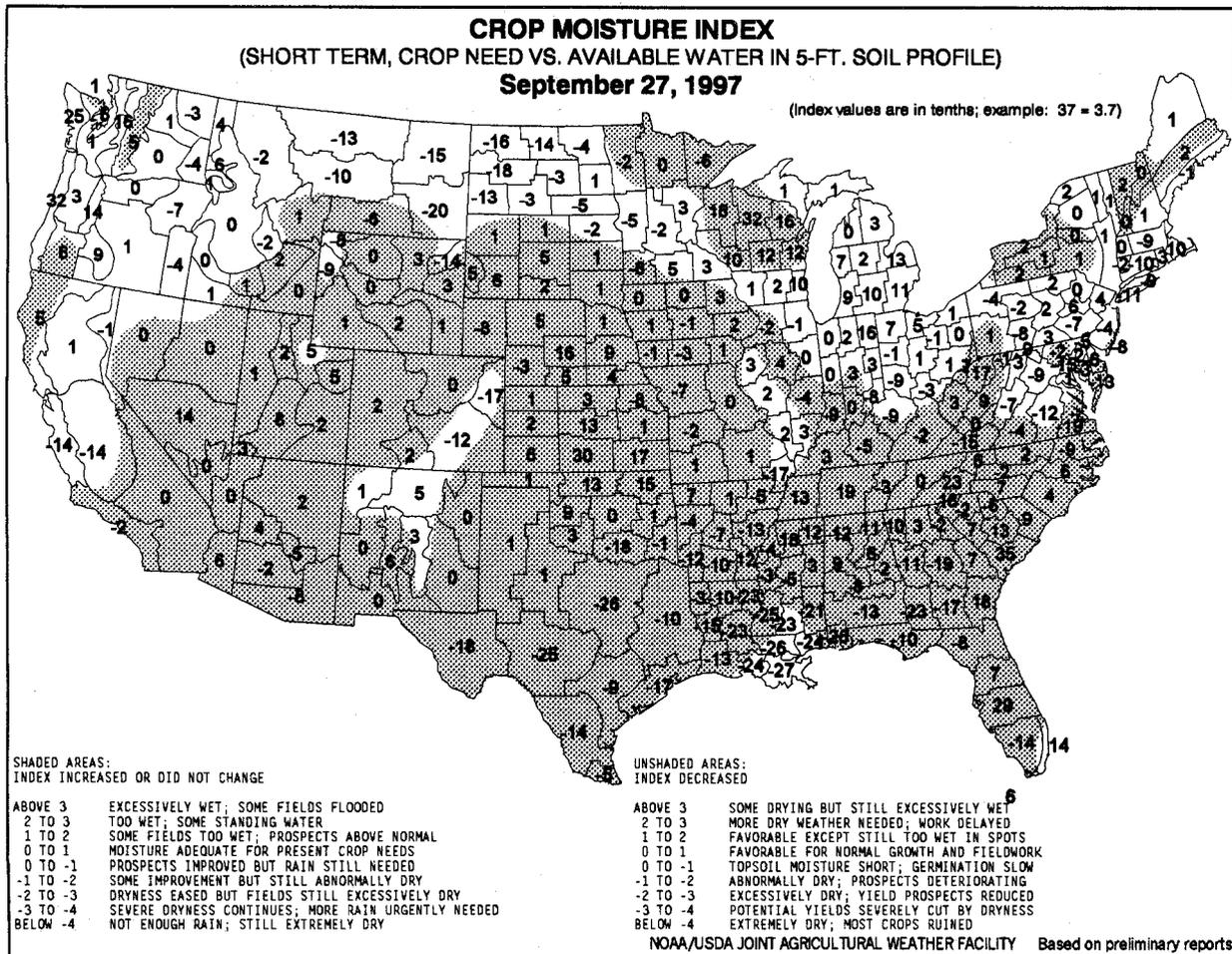
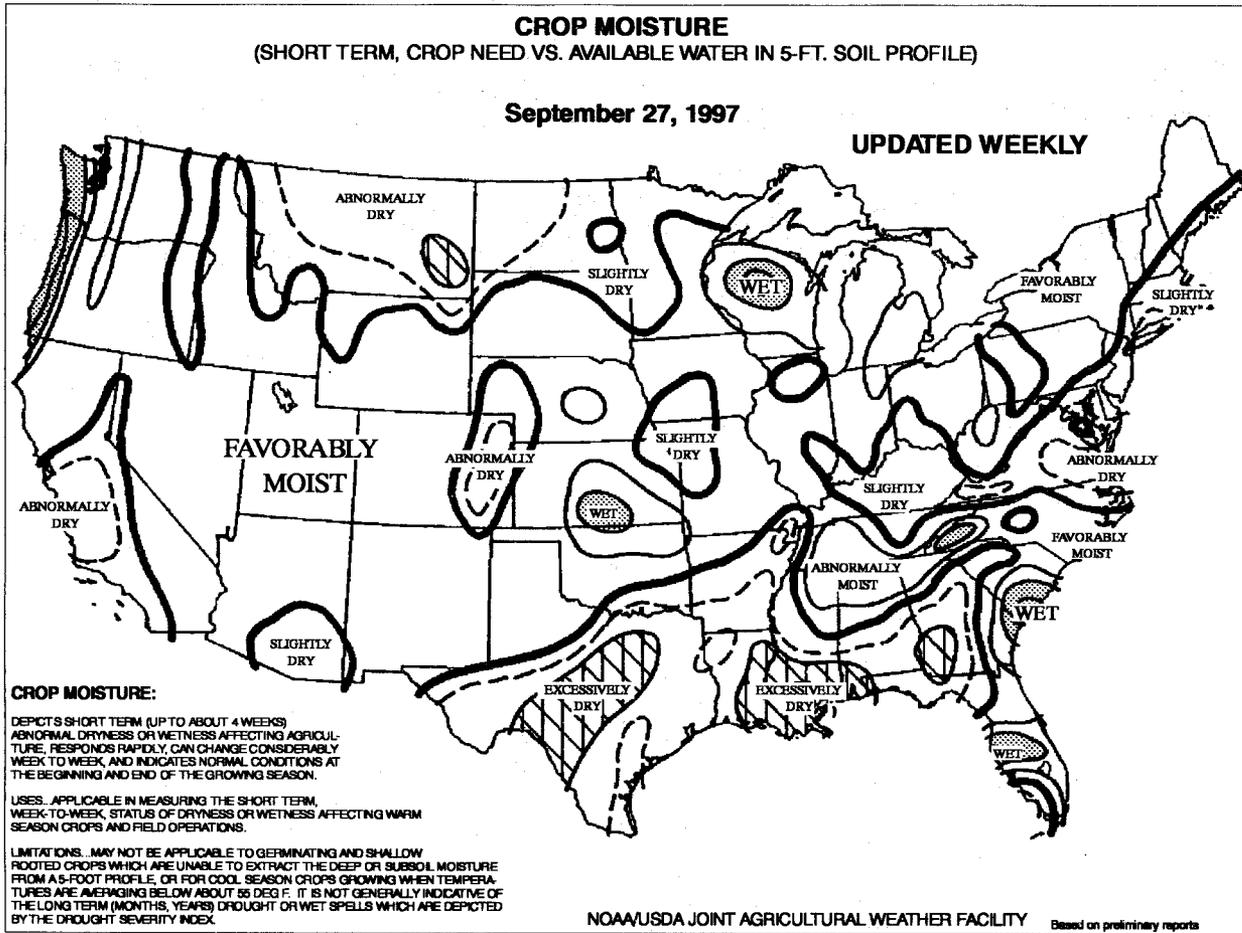
September 21 - 27, 1997

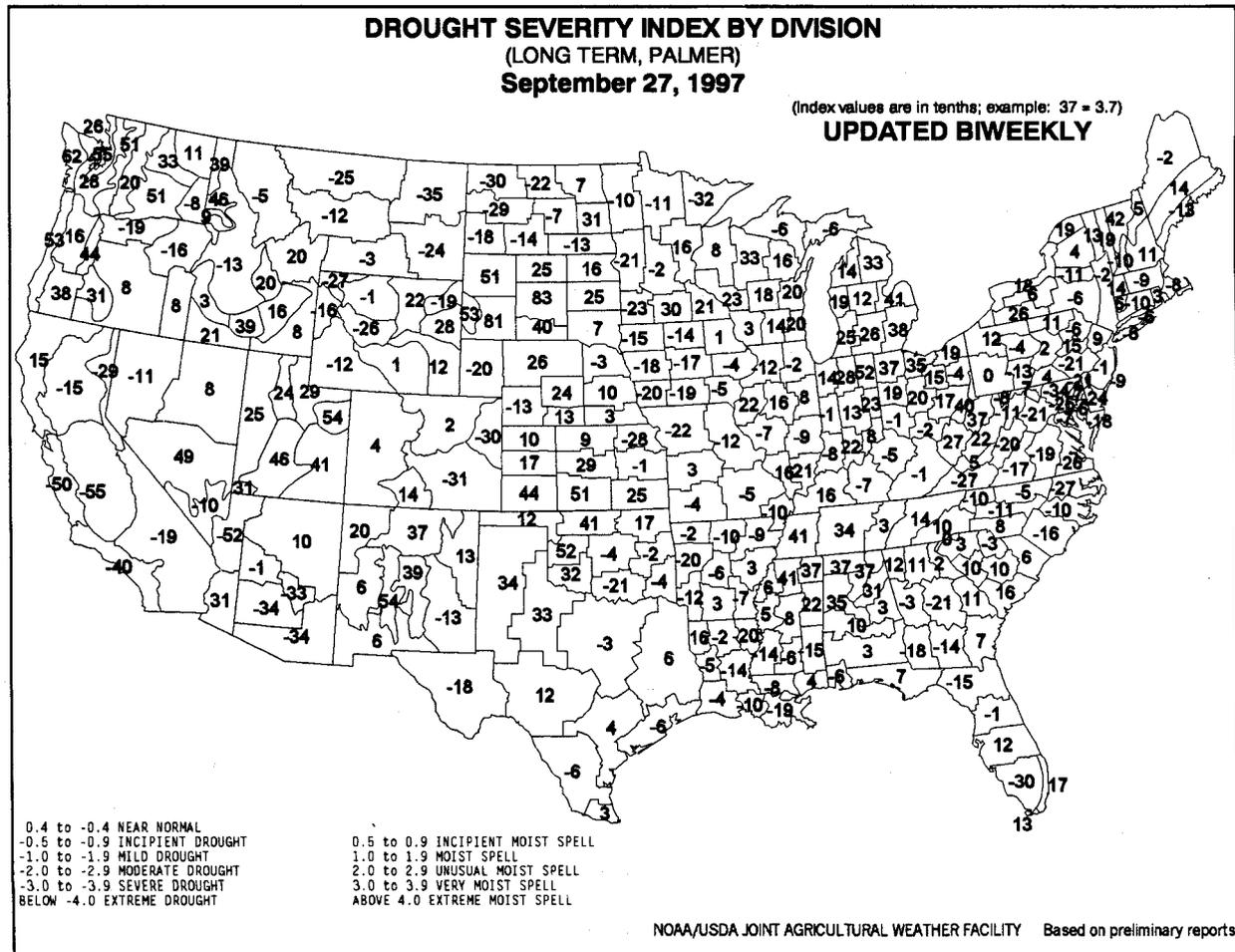
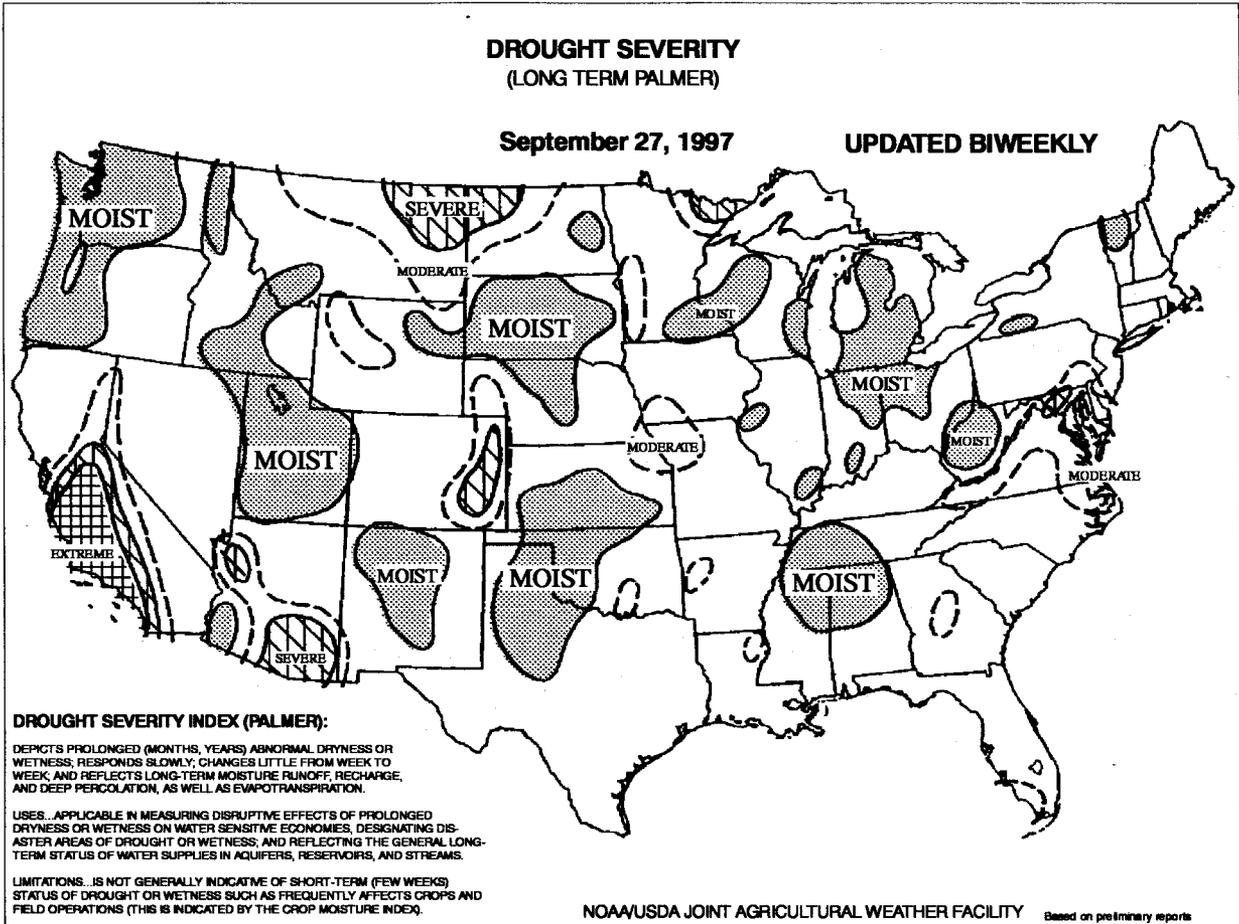
A slow-moving storm drifted across the central Plains, providing moisture for winter wheat establishment, and into the Southeast, easing the effects of a 2-month dry spell. More than 4 inches of rain fell in a broad area from northern Mississippi and southern Tennessee to South Carolina. The storm also helped to produce heavy rain along Texas' Gulf Coast, an area that has been dry since June. Excessive rain (up to 14 inches) fell late in the week in west-central Peninsular Florida. Farther west, Hurricane Nora struck Baja California on Thursday, entering the United States near Yuma, AZ later in the day as a tropical storm. Dry conditions prevailed throughout the week in winter wheat

(Continued on page 5)

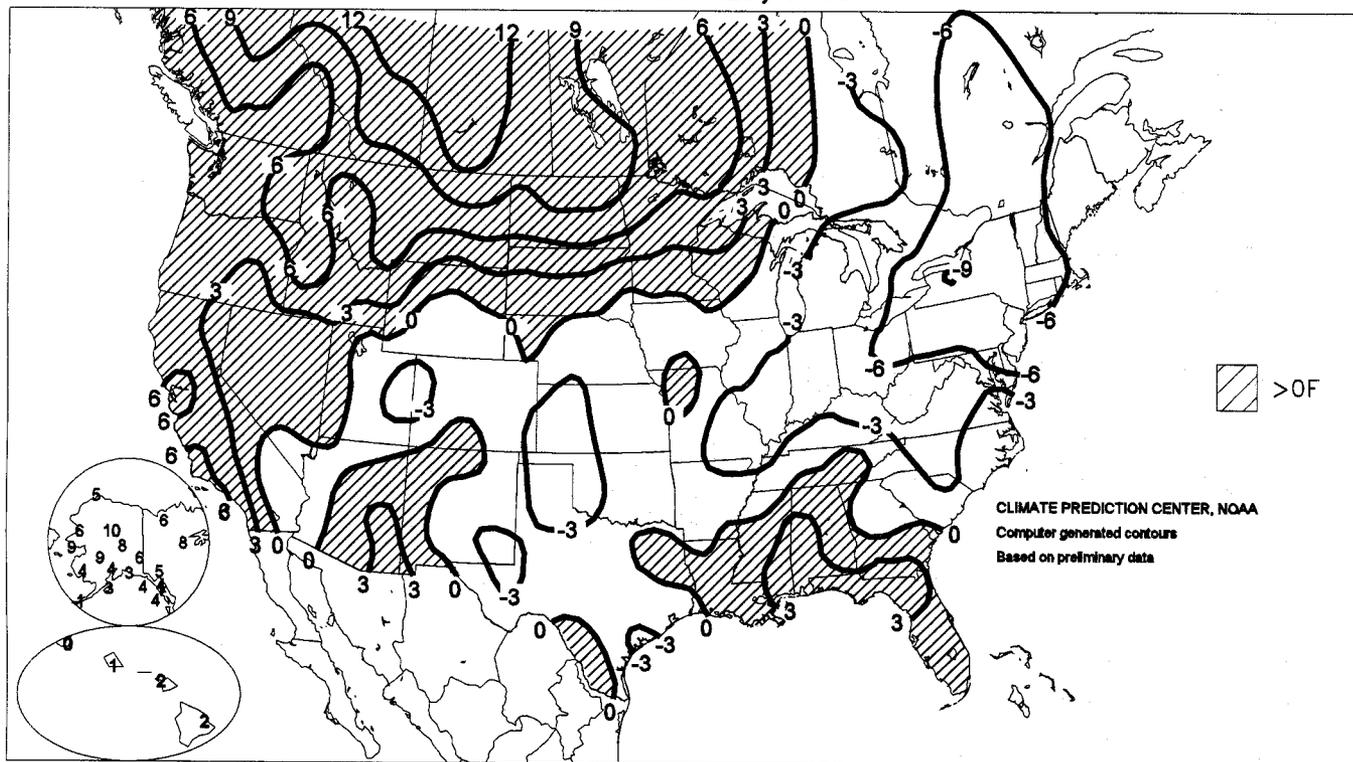
Contents

Crop Moisture Maps	2
Palmer Drought Maps	3
Temperature Departure & Pan Evaporation Maps	4
Extreme Maximum & Minimum Temperature Maps	5
Growing Degree Day Maps	6
National Weather Data for Selected Cities	7
National Agricultural Summary	10
Crop Progress and Condition Tables	11
State Agricultural Summaries	14
International Weather and Crop Summary	20
Subscription Information & Track of Hurricane Nora	24

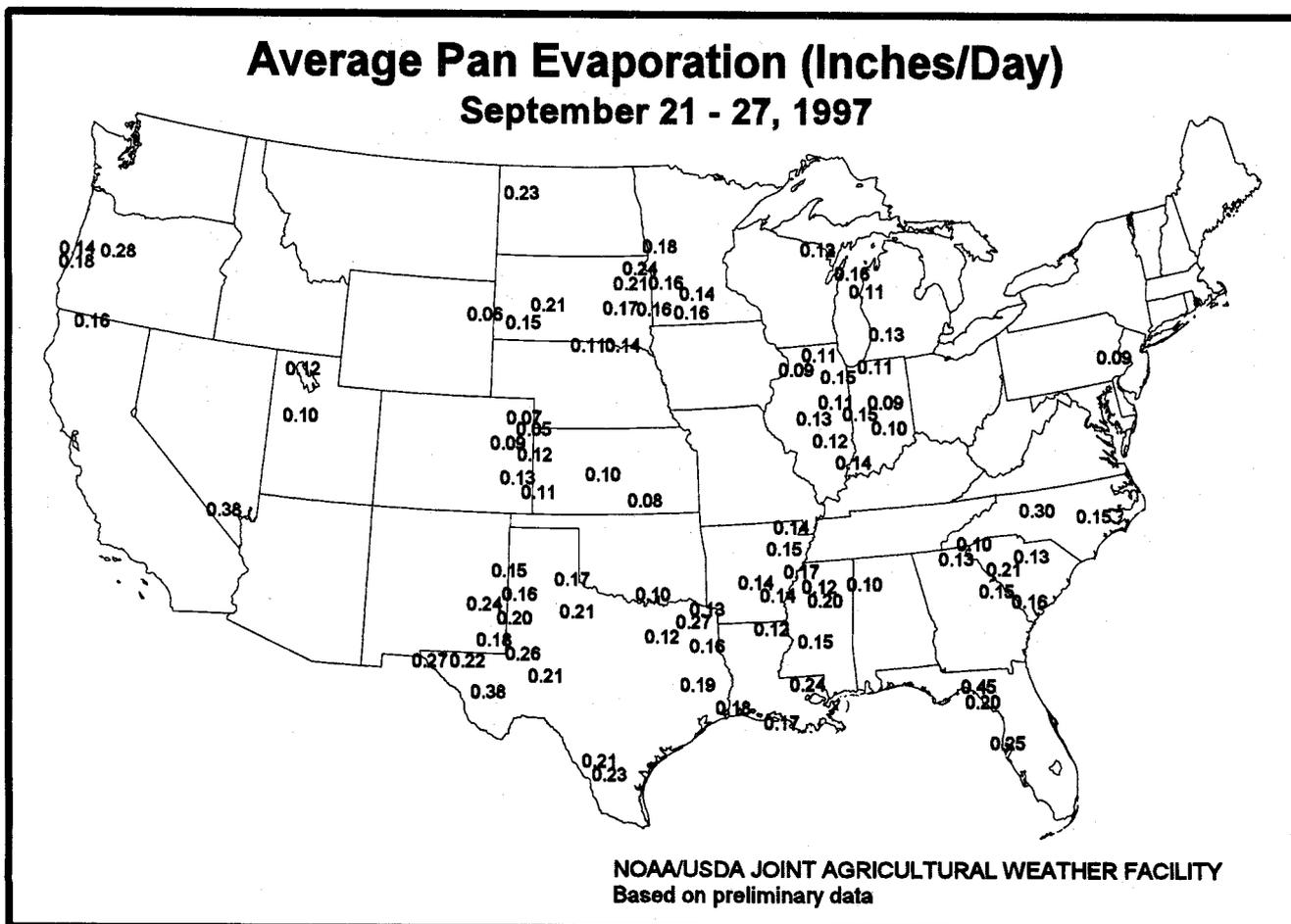




Departure of Average Temperature from Normal (°F) SEP 21 - 27, 1997



Average Pan Evaporation (Inches/Day) September 21 - 27, 1997



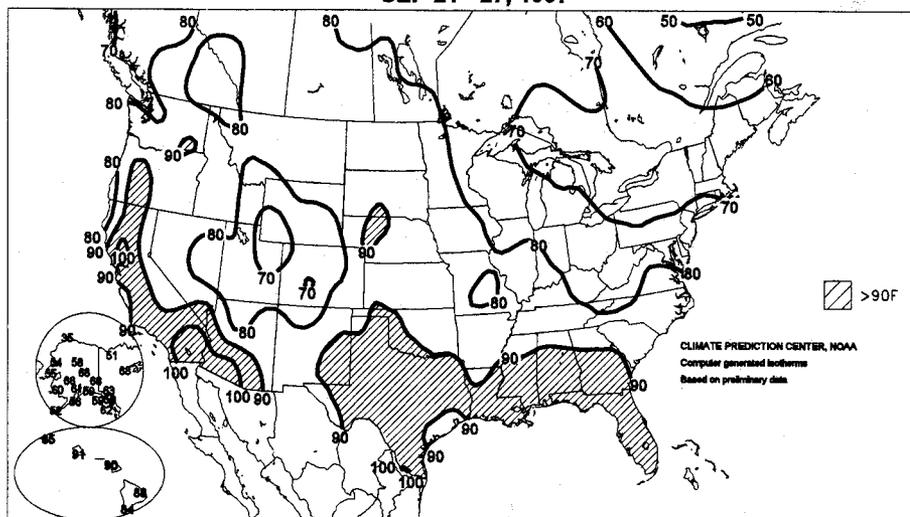
(Continued from front cover)

areas of the **Northwest** and **northern Plains**, where weekly temperatures ranged from 5 to 12°F above normal. Although weekly temperatures averaged as much as 9°F below normal in the **eastern Corn Belt** and **Northeast**, dry weather allowed for crop maturation. Early- to midweek rains accompanied a warming trend (near-normal weekly temperatures) in the **western Corn Belt**.

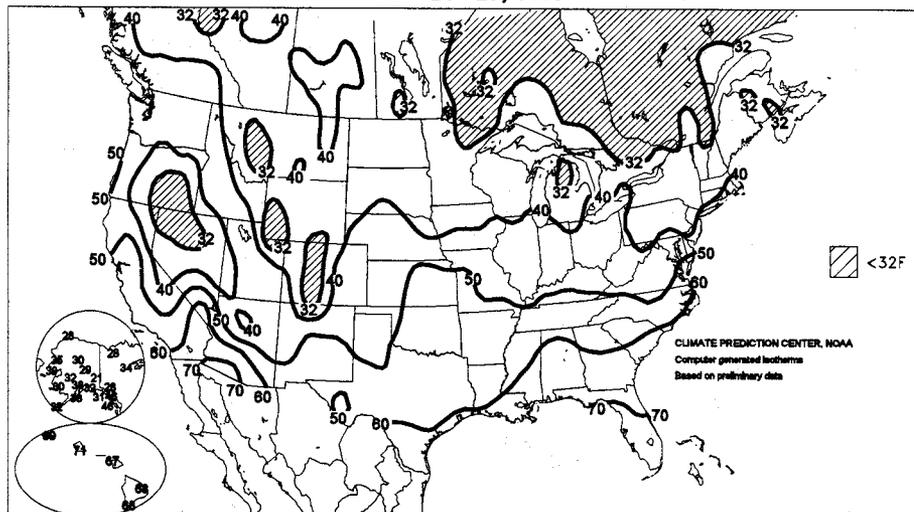
On Sunday, frost dotted the **upper Midwest**, where **Sioux City, IA** (32°F) notched a daily-record low. Farther south, hot weather lingered for another day across the **South**, where **Tallahassee, FL** (99°F) marked a daily-record high. The cool air settled into the **Northeast** by Monday, producing daily records in locations such as **Allentown, PA** (36°F) and **Virginia's Dulles Airport** (38°F). On Wednesday, a second surge of cool air delivered frost to **interior Lower Michigan**. **Lansing, MI** recorded 32°F. Yet another shot of cool air arrived in the **Northeast** at week's end, resulting in a daily-record low (31°F) in **Binghamton, NY** on Saturday. In contrast, highs approached 90°F on the **northern Plains**. In **Montana**, Saturday's maxima were 89°F at both **Glasgow** and **Miles City**.

On Thursday, Nora became only the fourth tropical system on record to reach the **Southwest** at tropical-storm force. The others were **Kathleen** (September 1976), **Joanne** (October 1972), and a tropical cyclone in September 1939. Nora's remnant center passed close to **Yuma, AZ** during the afternoon, briefly producing sustained winds to 40 mph and gusts to 54 mph. **Yuma** netted 3.83 inches of rain, 121 percent of their normal annual total. In **Los Angeles**, 0.27 inches fell, ending their record-setting dry spell at 219 days (February 18 to September 24). Elsewhere across **southern California**, storm-total rainfall included 0.80 inches in **San Diego**, 1.16 inches in **Death Valley**, 1.66 inches in **Blythe**, 3.07 inches in **Twentynine Palms**, and 4.57 inches atop **Mt. Laguna**. **Mt. Charleston, NV** received 3.73 inches. Elsewhere in **Arizona**, totals included 5.75 inches in **Bagdad** and 2.20 inches in **Wickenburg**.

Extreme Maximum Temperature (°F)
SEP 21 - 27, 1997

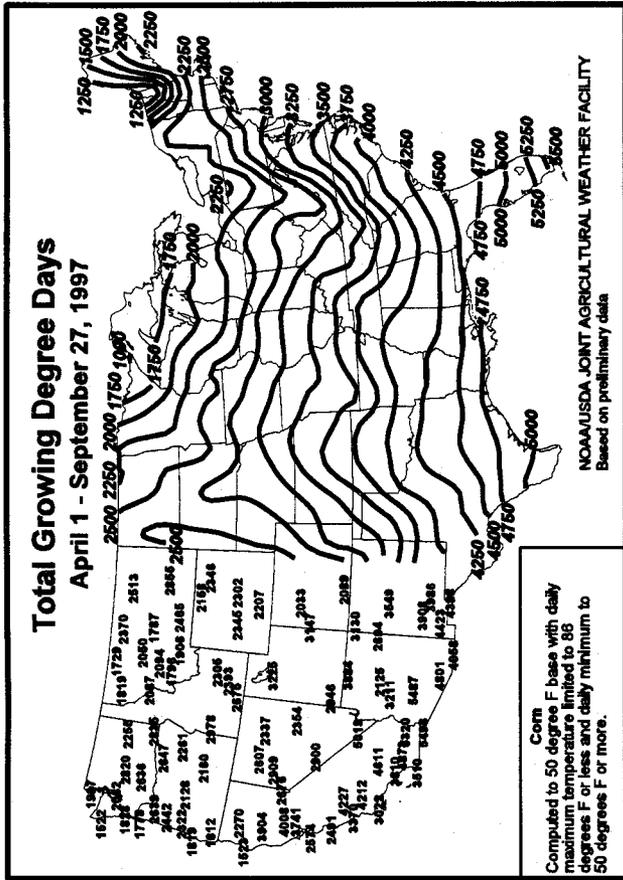


Extreme Minimum Temperature (°F)
SEP 21 - 27, 1997



In **northern California**, warm weather preceded Nora's approach. Downtown **San Francisco** tallied a daily-record high of 97°F, their highest of the year, on Tuesday. September 24 was the year-to-date's hottest day in **Santa Rosa** (98°F). Hot weather returned at week's end as a high-pressure system moved into the **Northwest**, setting up the region's first strong "Santa Ana" wind event of the season. Farther east, the slow-moving storm dumped more than 2 inches of rain from **southeastern Nebraska** to **western Oklahoma**. From September 19-24, rainfall in **southern Texas** totaled 4.43 inches in **Brownsville** and 12.53 inches in **Palacios**. In the **Southeast**, weekly totals included 4.51 inches in **Huntsville, AL**, 4.75 inches in **Augusta, GA**, 4.86 inches in **Memphis, TN**, and 4.96 inches in **Charleston, SC**. September 26-27 totals in **Florida** topped 14 inches in parts of **Pinellas County**. **Tampa** endured a 24-hour total of 7.87 inches, a record for September and their third-highest all-time total, en route to a storm total of 9.53 inches.

The warm regime continued for **Alaska** (up to 10°F above normal) and **Hawaii** (up to 2°F above normal). Heavy precipitation was confined to **southeastern Alaska**. On Wednesday, highs soared to 70°F as far north as **Circle City, AK**. A high of 66°F in **Northway, AK** was their warmest reading on record so late in the year.



National Weather Data for Selected Cities

Weather Data for the Week Ending September 27, 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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP, °F		PRECIP.		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	80	67	92	62	74	3	3.51	2.82	1.54	3.97	111	41.57	98	93	68	1	0	4	3	
HUNTSVILLE	79	63	86	60	71	2	4.48	3.54	3.39	5.39	146	43.86	103	90	60	0	0	4	2	
MOBILE	87	70	97	65	78	2	0.85	-0.36	-	1.98	36	61.26	120	97	58	4	0	-	-	
MONTGOMERY	84	68	95	66	76	2	-	-	-	-	-	-	92	66	2	0	-	-		
AK ANCHORAGE	55	44	61	38	50	4	0.49	-0.12	0.20	2.12	87	14.46	127	94	65	0	0	6	0	
BARROW	33	30	35	28	32	5	0.02	-0.09	0.02	0.50	83	4.52	131	94	75	0	7	1	0	
FAIRBANKS	61	38	69	29	49	8	0.00	-0.18	0.00	0.46	53	4.29	52	80	42	0	3	0	0	
JUNEAU	55	49	59	46	52	4	-	-	-	-	-	-	98	83	0	0	-	-		
KODIAK	54	46	56	33	50	2	4.77	3.07	2.81	7.06	113	46.95	100	97	76	0	0	5	2	
NOME	54	41	55	39	48	8	0.14	-0.37	0.12	1.75	78	12.61	110	83	61	0	0	2	0	
AZ FLAGSTAFF	68	41	73	32	55	0	1.73	1.30	1.39	3.55	192	12.55	75	90	42	0	1	3	1	
PHOENIX	95	76	99	73	86	3	-	-	-	-	-	-	57	23	7	0	-	-		
PRESCOTT	77	52	81	45	65	3	2.15	1.78	1.70	3.69	199	13.31	88	79	37	0	0	2	1	
TUCSON	92	70	96	65	81	3	0.20	-0.15	0.20	1.43	93	6.81	75	67	27	5	0	1	0	
YUMA	93	74	100	73	84	-1	3.83	3.77	3.83	-	-	-	72	34	5	0	-	-		
AR FORT SMITH	79	62	87	55	70	0	0.33	-0.45	0.29	1.24	43	27.58	92	92	56	0	0	4	0	
LITTLE ROCK	80	62	88	58	71	0	3.52	2.56	2.90	4.15	112	47.20	133	87	48	0	0	3	1	
CA BAKERSFIELD	91	64	98	58	77	3	-	-	-	-	-	-	82	27	4	0	-	-		
EUREKA	67	55	70	50	61	4	-	-	-	-	-	-	83	75	0	0	-	-		
FRESNO	91	63	99	59	77	5	-	-	-	-	-	-	88	25	4	0	-	-		
LOS ANGELES	83	67	90	64	76	5	-	-	-	-	-	-	88	48	1	0	-	-		
REDDING	91	57	97	51	74	2	0.00	-0.26	0.00	1.84	213	19.54	97	73	21	5	0	0	0	
SACRAM/MCCLELL	93	61	99	55	77	-	0.00	-	0.00	0.08	-	9.59	89	19	6	0	0	0	0	
SAN DIEGO	83	68	92	65	75	5	-	-	-	-	-	-	89	49	2	0	-	-		
SAN FRANCISCO	79	59	91	57	69	5	0.00	-0.08	0.00	0.00	0	9.37	75	90	53	1	0	0	0	
CO ALAMOSA	68	40	76	34	54	2	-	-	-	-	-	-	94	39	0	0	-	-		
CO SPRINGS	66	46	81	42	56	-2	0.38	0.15	0.20	1.85	149	21.88	152	89	52	0	0	3	0	
DENVER	70	46	84	42	58	-1	0.06	-0.23	0.03	0.87	86	17.78	139	83	45	0	0	2	0	
GRAND JUNCTION	70	51	75	46	60	-3	-	-	-	-	-	-	94	50	0	0	-	-		
PUEBLO	74	48	87	43	61	-2	-	-	-	-	-	-	90	43	0	0	-	-		
CT BRIDGEPORT	65	47	72	42	56	-7	0.02	-0.70	0.02	0.31	11	27.34	88	78	47	0	0	1	0	
HARTFORD	66	42	72	37	54	-7	-	-	-	-	-	-	90	45	0	0	-	-		
DC WASHINGTON	73	54	77	49	64	-5	0.00	-0.74	0.00	0.89	30	23.06	79	81	44	0	0	0	0	
DE WILMINGTON	68	46	74	37	57	-8	0.02	-0.76	0.02	1.44	48	19.39	63	91	46	0	0	1	0	
FL DAYTONA BEACH	87	72	91	68	80	1	-	-	-	-	-	-	99	72	3	0	-	-		
JACKSONVILLE	87	73	93	71	80	3	3.50	2.07	2.20	3.66	56	39.72	92	96	67	3	0	3	2	
KEY WEST	87	78	89	74	82	0	-	-	-	-	-	-	85	68	0	0	-	-		
MIAMI	89	76	90	74	82	1	-	-	-	-	-	-	90	60	2	0	-	-		
ORLANDO	89	72	93	67	80	0	-	-	-	-	-	-	100	64	5	0	-	-		
TAMPA	88	74	93	73	81	1	10.12	8.95	7.87	-	-	-	92	64	4	0	3	2		
VALPARAISO/EGLIN	87	73	99	68	80	5	3.32	1.96	2.90	3.54	56	51.72	101	92	64	3	0	4	1	
WEST PALM BEACH	89	77	91	72	83	2	-	-	-	-	-	-	89	65	3	0	-	-		
GA ATHENS	72	62	86	56	67	-3	-	-	-	-	-	-	90	71	0	0	-	-		
ATLANTA	75	62	89	57	68	-2	4.13	3.35	2.90	4.13	133	37.49	96	90	68	0	0	5	2	
AUGUSTA	79	63	90	59	71	-1	4.84	4.20	3.18	5.54	201	34.61	97	93	59	1	0	4	3	
COLUMBUS	82	67	96	65	74	0	-	-	-	-	-	-	88	68	1	0	-	-		
MACON	80	65	96	62	72	0	3.08	2.49	1.63	3.08	121	26.67	76	91	71	2	0	4	2	
SAVANNAH	84	70	89	65	77	2	-	-	-	-	-	-	96	74	0	0	-	-		
HI HILO	86	71	88	67	78	2	2.37	0.40	0.73	8.96	117	102.48	111	91	63	0	0	6	2	
HONOLULU	89	74	91	71	81	1	0.28	0.03	0.24	0.67	105	16.11	126	86	54	2	0	2	0	
KAHULUI	89	73	90	67	81	2	-	-	-	-	-	-	87	56	2	0	-	-		
LIHUE	85	73	85	69	79	0	-	-	-	-	-	-	87	64	0	0	-	-		
ID BOISE	79	55	87	47	67	7	-	-	-	-	-	-	80	27	0	0	-	-		
LEWISTON	82	53	90	48	68	7	0.00	-0.19	0.00	0.98	132	12.06	132	74	28	1	0	0	0	
POCATELLO	71	46	76	41	58	2	-	-	-	-	-	-	90	39	0	0	-	-		
IL CHICAGO/O'HARE	69	50	79	44	59	-2	-	-	-	-	-	-	90	51	0	0	-	-		
MOLINE	72	49	80	44	61	-1	0.71	-0.18	0.57	3.89	101	30.03	97	94	53	0	0	2	1	
PEORIA	72	50	79	46	61	-2	0.11	-0.78	0.08	3.02	86	25.36	90	91	50	0	0	2	0	
ROCKFORD	70	47	79	42	58	-2	0.20	-0.84	0.11	1.86	54	23.63	83	93	47	0	0	2	0	
SPRINGFIELD	74	49	81	42	61	-3	0.54	-0.21	0.50	3.57	118	22.07	82	94	47	0	0	3	1	
IN EVANSVILLE	74	51	81	48	63	-4	-	-	-	-	-	-	96	50	0	0	-	-		
FORT WAYNE	69	45	74	41	57	-5	-	-	-	-	-	-	96	48	0	0	-	-		
INDIANAPOLIS	71	50	79	42	60	-3	-	-	-	-	-	-	96	49	0	0	-	-		
SOUTH BEND	67	46	73	41	56	-5	0.22	-0.60	0.16	2.50	76	26.33	90	93	56	0	0	3	0	
IA BURLINGTON	-	-	-	-	-	-	0.70	-0.24	-	1.80	48	26.14	92	-	-	-	-	-	-	
CEDAR RAPIDS	-	-	-	-	-	-	0.99	0.15	-	2.19	61	20.80	78	-	-	-	-	-	-	
DES MOINES	72	52	84	44	62	0	-	-	-	-	-	-	92	56	0	0	-	-		
DUBUQUE	67	47	77	39	57	-1	-	-	-	-	-	-	94	58	0	0	-	-		
SIOUX CITY	74	45	87	32	59	-1	1.53	0.89	1.06	2.42	92	16.69	77	98	49	0	1	4	1	
WATERLOO	71	47	83	36	59	0	-	-	-	-	-	-	93	51	0	0	-	-		
KS CONCORDIA	71	56	81	51	64	-1	3.36	2.70	2.24	3.61	131	20.48	83	91	61	0	0	3	2	
DODGE CITY	72	53	86	46	63	-3	0.48	0.06	0.44	2.08	118	21.86	118	92	62	0	0	3	0	
GOODLAND	71	48	89	43	60	-1	0.30	-0.04	-	0.75	52	14.94	93	89	50	0	0	2	0	
TOPEKA	74	54	85	50	64	-1	1.18	0.32	0.95	2.06	60	22.35	79	97	61	0	0	3	1	

Based on 1961-90 normals

Weather Data for the Week Ending September 27, 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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN, SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP, °F		.01 INCH OR MORE	.50 INCH OR MORE
																		01 INCH OR MORE	.50 INCH OR MORE		
KY	WICHITA	73	59	85	53	66	-1	2.51	1.72	1.98	3.27	103	29.46	122	91	64	0	0	4	2	
	JACKSON	70	53	78	49	61	-4	-	-	-	-	-	-	93	65	0	0	-	-		
	LEXINGTON	71	52	77	47	62	-4	-	-	-	-	-	-	93	58	0	0	-	-		
	LOUISVILLE	76	55	81	52	66	-2	-	-	-	-	-	-	87	46	0	0	-	-		
LA	PADUCAH	74	54	82	49	64	-4	-	-	-	-	-	-	94	55	0	0	-	-		
	BATON ROUGE	86	68	95	62	77	1	0.13	-0.90	0.07	1.20	27	51.93	110	94	57	2	0	2	0	
	LAKE CHARLES	84	69	95	59	78	1	-	-	-	-	-	-	94	58	2	0	-	-		
	NEW ORLEANS	86	72	95	66	79	3	-	-	-	-	-	-	90	57	2	0	-	-		
ME	SHREVEPORT	83	66	90	59	75	0	-	-	-	-	-	-	94	61	1	0	-	-		
	CARIBOU	54	33	60	30	43	-7	-	-	-	-	-	-	91	55	0	2	-	-		
MD	PORTLAND	62	40	66	34	51	-5	-	-	-	-	-	-	88	52	0	0	-	-		
	BALTIMORE	71	47	76	42	59	-7	0.00	-0.76	0.00	0.91	29	26.33	86	94	46	0	0	0	0	
MA	BOSTON	64	48	69	44	56	-6	-	-	-	-	-	-	80	49	0	0	-	-		
	WORCESTER	60	42	64	39	51	-6	0.04	-0.92	0.04	1.03	29	25.89	75	88	50	0	0	1	0	
MI	ALPENA	63	37	67	30	50	-4	0.14	-0.53	0.12	2.16	76	24.52	110	94	49	0	2	2	0	
	GRAND RAPIDS	67	43	75	37	55	-3	-	-	-	-	-	-	97	52	0	0	-	-		
	HOUGHTON LAKE	63	37	67	27	50	-4	0.00	-0.74	0.00	2.79	89	21.83	101	95	48	0	3	0	0	
	LANSING	66	38	74	32	52	-6	-	-	-	-	-	-	95	48	0	1	-	-		
MN	MARQUETTE	-	-	-	-	-	-	0.00	-9.99	0.00	1.00	27	24.27	94	-	-	-	-	-		
	MUSKEGON	66	44	73	35	55	-4	-	-	-	-	-	-	92	53	0	0	-	-		
	DULUTH	67	45	74	35	56	5	-	-	-	-	-	-	91	48	0	0	-	-		
	INT'L FALLS	71	40	78	27	56	5	0.09	-0.61	0.06	1.76	61	13.19	66	88	43	0	2	2	0	
MS	MINNEAPOLIS	70	46	79	38	58	1	-	-	-	-	-	-	95	52	0	0	-	-		
	ROCHESTER	68	46	75	36	57	0	-	-	-	-	-	-	93	51	0	0	-	-		
	ST. CLOUD	70	42	79	32	56	2	-	-	-	-	-	-	94	48	0	1	-	-		
	JACKSON	84	67	93	62	75	2	2.08	1.26	1.93	2.68	83	45.12	110	96	59	2	0	2	1	
MO	MERIDIAN	85	68	94	64	76	4	0.89	0.09	0.45	1.85	58	43.84	103	94	61	4	0	4	0	
	TUPELO	80	63	86	54	71	0	1.06	0.21	0.85	1.76	54	53.07	129	93	65	0	0	3	1	
	COLUMBIA	73	53	80	48	63	-2	-	-	-	-	-	-	92	57	0	0	-	-		
	KANSAS CITY	73	54	83	49	64	-1	-	-	-	-	-	-	95	61	0	0	-	-		
MT	SAINT LOUIS	74	55	80	50	64	-3	0.30	-0.42	0.27	2.71	96	25.02	89	89	52	0	0	2	0	
	SPRINGFIELD	72	55	80	50	64	-2	-	-	-	-	-	-	96	65	0	0	-	-		
	BILLINGS	74	49	86	42	62	6	-	-	-	-	-	-	75	30	0	0	-	-		
	BUTTE	72	35	78	28	53	5	0.14	-0.13	0.14	0.58	50	17.62	170	82	28	0	3	1	0	
NE	GLASGOW	81	46	89	40	64	10	0.17	-0.04	0.16	0.55	60	10.70	111	67	19	0	0	2	0	
	GREAT FALLS	78	45	85	32	61	7	0.02	-0.24	0.02	0.28	25	12.70	99	61	21	0	1	1	0	
	KALISPELL	70	39	76	33	54	4	-	-	-	-	-	-	96	38	0	0	-	-		
	MILES CITY	80	47	89	43	64	7	0.09	-0.21	0.09	0.22	19	9.20	77	71	22	0	0	1	0	
	MISSOULA	74	39	82	33	57	4	0.02	-0.22	0.02	0.62	61	12.83	120	85	33	0	0	1	0	
	GRAND ISLAND	70	51	87	48	60	0	3.89	3.28	2.04	5.33	204	24.24	112	96	65	0	0	4	2	
	LINCOLN	72	52	84	43	62	0	1.54	0.78	0.73	1.87	59	18.38	78	95	58	0	0	3	1	
	NORFOLK	72	47	86	36	59	-1	1.51	0.97	1.08	2.72	122	17.23	80	95	53	0	0	4	1	
	NORTH PLATTE	68	46	87	39	57	-1	1.06	0.71	0.46	1.73	119	14.57	85	96	58	0	0	4	0	
	OMAHA	71	51	83	41	61	-1	1.48	0.65	1.22	5.10	150	23.05	93	96	60	0	0	3	1	
NV	SCOTTSBLUFF	66	45	84	41	56	-2	0.07	-0.18	0.04	0.96	100	18.13	138	93	53	0	0	2	0	
	VALENTINE	70	46	92	42	58	0	0.35	0.04	0.30	1.82	129	18.70	116	93	48	1	0	3	0	
	ELY	68	39	75	34	54	0	-	-	-	-	-	-	91	31	0	0	-	-		
	LAS VEGAS	87	67	92	66	77	0	-	-	-	-	-	-	57	28	4	0	-	-		
NH	RENO	78	42	84	38	60	3	0.00	-0.08	0.00	0.50	156	6.10	116	85	24	0	0	0	0	
	WINNEMUCCA	78	40	85	28	59	3	0.00	-0.10	0.00	0.27	82	6.63	115	68	20	0	1	0	0	
	CONCORD	63	37	67	31	50	-6	0.02	-0.63	0.02	1.44	57	24.67	95	88	41	0	1	1	0	
	NEWARK	67	50	74	44	58	-8	0.00	-0.82	0.00	1.14	34	30.54	92	75	41	0	0	0	0	
NM	ALBUQUERQUE	75	58	83	53	66	0	1.04	0.83	-	2.43	267	10.31	148	78	39	0	0	-	-	
	ALBANY	62	41	67	35	51	-7	-	-	-	-	-	-	91	58	0	0	-	-		
NY	BINGHAMTON	59	37	63	31	48	-9	0.11	-0.65	0.11	1.73	57	21.55	78	96	55	0	1	1	0	
	BUFFALO	60	42	65	38	51	-8	-	-	-	-	-	-	89	57	0	0	-	-		
	ROCHESTER	60	40	65	36	50	-8	0.57	-0.08	0.51	3.20	119	24.30	103	95	56	0	0	2	1	
	SYRACUSE	61	40	67	35	51	-8	-	-	-	-	-	-	90	56	0	0	-	-		
	ASHEVILLE	70	56	79	53	63	-1	2.88	2.02	2.84	4.32	123	40.32	110	96	66	0	0	3	1	
	CHARLOTTE	75	60	85	55	67	-3	2.25	1.45	2.00	2.56	81	36.19	111	83	52	0	0	4	1	
	GREENSBORO	73	53	81	49	63	-4	-	-	-	-	-	-	89	55	0	0	-	-		
	HATTERAS	75	67	79	64	71	-1	2.77	1.58	1.67	5.34	112	37.19	90	88	69	0	0	4	2	
	RALEIGH	75	55	84	47	65	-4	-	-	-	-	-	-	93	54	0	0	-	-		
	WILMINGTON	77	63	86	60	70	-3	2.31	1.30	1.65	6.35	137	34.53	78	94	70	0	0	4	1	
ND	BISMARCK	77	45	86	34	61	7	0.10	-0.22	0.10	1.73	127	12.21	91	89	32	0	0	1	0	
	DICKINSON	78	44	87	35	61	7	0.00	-0.38	0.00	0.16	11	14.95	106	79	23	0	0	0	0	
	FARGO	76	48	84	35	61	7	0.20	-0.24	0.20	1.98	110	22.24	137	80	35	0	0	1	0	
	GRAND FORKS	79	46	87	35	63	10	-	-	-	-	-	-	79	35	0	0	-	-		
OH	JAMESTOWN	79	49	85	39	64	10	0.12	-0.25	0.12	0.81	50	18.04	122	78	30	0	0	1	0	
	WILLISTON	80	42	87	33	61	8	-	-	-	-	-	-	81	25	0	0	-	-		
	AKRON-CANTON	65	43	71	40	54	-7	0.09	-0.65	0.08	2.36	78	26.73	95	93	56	0	0	2	0	
	CINCINNATI	72	48	78	41	60	-4	0.00	-0.66	0.00	0.48	18	32.63	103	95	46	0	0	0	0	
	CLEVELAND	65	46	71	42	56	-6</														

Weather Data for the Week Ending September 27, 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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL IN SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	92 AND BELOW	TEMP, °F		PRECIP.	
																		01 INCH OR MORE	50 INCH OR MORE		
OK TOLEDO	67	44	74	40	56	-6	-	-	-	-	-	-	-	91	47	0	0	-	-	-	-
OK YOUNGSTOWN	66	39	71	36	52	-8	-	-	-	-	-	-	-	93	54	0	0	-	-	-	-
OK OKLAHOMA CITY	78	59	88	51	67	-3	1.25	0.32	0.94	1.37	40	21.50	82	92	67	0	0	2	1	-	-
OR TULSA	76	60	84	55	68	-3	-	-	-	-	-	-	-	86	61	0	0	0	0	-	-
OR ASTORIA	70	55	83	49	63	5	1.13	0.31	0.64	6.03	240	56.93	143	93	70	0	0	3	1	-	-
OR BURNS	74	36	81	27	56	3	0.00	-0.14	0.00	0.53	104	7.23	106	86	46	0	3	0	0	-	-
OR EUGENE	78	50	90	44	64	3	0.44	-0.01	0.39	2.87	197	27.43	96	93	43	1	0	3	0	-	-
OR MEDFORD	87	47	95	41	67	4	-	-	-	-	-	-	-	85	20	3	0	0	-	-	-
OR PENDLETON	82	52	95	45	67	7	-	-	-	-	-	-	-	72	29	2	0	-	-	-	-
OR PORTLAND	79	55	90	52	67	6	-	-	-	-	-	-	-	96	49	1	0	-	-	-	-
OR SALEM	79	51	88	45	65	5	-	-	-	-	-	-	-	93	47	0	0	-	-	-	-
PA ALLENTOWN	64	41	70	35	53	-9	-	-	-	-	-	-	-	90	53	0	0	-	-	-	-
PA ERIE	62	46	66	42	54	-8	-	-	-	-	-	-	-	87	56	0	0	-	-	-	-
PA MIDDLETOWN	70	49	75	45	59	-4	0.00	-0.80	0.00	2.14	67	24.49	80	86	54	0	0	0	0	-	-
PA PHILADELPHIA	69	50	74	43	59	-6	0.00	-0.75	0.00	1.19	38	23.70	75	81	45	0	0	0	0	-	-
PA PITTSBURGH	66	44	74	40	55	-6	0.13	-0.53	0.10	1.89	70	25.31	89	94	55	0	0	4	0	-	-
PA SCRANTON	63	39	67	34	51	-9	0.02	-0.73	0.02	1.56	52	20.48	74	91	82	0	0	1	0	-	-
PA WILLIAMSPORT	66	41	71	38	53	-7	-	-	-	-	-	-	-	95	57	0	0	-	-	-	-
RI PROVIDENCE	65	46	71	40	56	-6	0.00	-0.80	0.00	0.54	17	28.97	89	84	47	0	0	0	0	-	-
SC BEAUFORT	80	70	86	65	75	1	-	-	-	-	-	-	-	96	77	0	0	-	-	-	-
SC CHARLESTON	80	68	86	64	74	0	5.01	4.08	2.83	8.76	201	49.17	116	92	78	0	0	4	2	-	-
SC COLUMBIA	76	64	86	58	70	-2	3.02	2.28	1.68	3.30	98	32.78	82	86	64	0	0	4	2	-	-
SC GREENVILLE	73	60	83	54	67	-2	-	-	-	-	-	-	-	88	64	0	0	-	-	-	-
SD ABERDEEN	74	42	84	33	58	2	0.06	-0.34	0.04	0.74	44	15.29	94	93	41	0	0	3	0	-	-
SD HURON	72	46	82	37	59	2	-	-	-	-	-	-	-	91	51	0	0	-	-	-	-
SD RAPID CITY	69	46	84	38	58	1	-	-	-	-	-	-	-	85	48	0	0	-	-	-	-
SD SIOUX FALLS	70	44	83	32	57	0	-	-	-	-	-	-	-	96	52	0	1	-	-	-	-
TN BRISTOL	73	54	79	50	63	-2	-	-	-	-	-	-	-	96	61	0	0	-	-	-	-
TN CHATTANOOGA	77	62	84	59	70	0	2.03	1.08	1.31	5.49	146	45.72	114	92	60	0	0	4	2	-	-
TN KNOXVILLE	77	61	82	57	69	2	-	-	-	-	-	-	-	91	57	0	0	-	-	-	-
TN MEMPHIS	79	61	84	52	70	-1	-	-	-	-	-	-	-	88	55	0	0	-	-	-	-
TN NASHVILLE	77	57	83	52	67	-2	4.86	3.89	2.85	5.70	180	42.92	120	91	58	0	0	2	2	-	-
TX ABILENE	83	59	94	49	71	-2	-	-	-	-	-	-	-	85	42	1	0	-	-	-	-
TX AMARILLO	74	52	90	46	63	-3	1.34	0.95	1.32	1.34	73	20.92	124	94	55	1	0	2	1	-	-
TX AUSTIN	87	69	93	61	78	-1	0.79	-0.04	0.79	1.45	49	34.46	146	87	47	2	0	1	1	-	-
TX BEAUMONT	84	69	90	60	78	0	-	-	-	-	-	-	-	95	66	1	0	-	-	-	-
TX BROWNSVILLE	89	71	96	65	80	0	4.41	3.00	-	4.77	87	21.86	106	95	58	2	0	-	-	-	-
TX CORPUS CHRISTI	86	70	90	62	78	-1	-	-	-	-	-	-	-	94	61	1	0	-	-	-	-
TX DEL RIO	89	68	97	59	78	1	1.08	0.38	1.04	1.28	51	19.23	136	88	42	2	0	2	1	-	-
TX EL PASO	83	63	90	59	73	1	-	-	-	-	-	-	-	77	38	1	0	-	-	-	-
TX FORT WORTH	83	64	92	55	73	-1	0.10	-0.75	0.09	2.01	67	31.35	122	88	53	2	0	2	0	-	-
TX GALVESTON	81	72	84	68	76	-2	-	-	-	-	-	-	-	88	70	0	0	-	-	-	-
TX HOUSTON	82	67	87	57	75	-2	-	-	-	-	-	-	-	95	64	0	0	-	-	-	-
TX LUBBOCK	77	55	85	50	66	-3	-	-	-	-	-	-	-	88	48	1	0	-	-	-	-
TX MIDLAND	82	57	97	51	69	-1	-	-	-	-	-	-	-	85	43	1	0	-	-	-	-
TX SAN ANGELO	84	59	93	51	72	-1	-	-	-	-	-	-	-	88	37	1	0	-	-	-	-
TX SAN ANTONIO	87	67	90	58	77	0	-	-	-	-	-	-	-	90	49	1	0	-	-	-	-
TX VICTORIA	82	67	87	58	75	-3	-	-	-	-	-	-	-	97	66	0	0	-	-	-	-
TX WACO	87	64	94	53	75	-1	-	-	-	-	-	-	-	85	46	2	0	-	-	-	-
TX WICHITA FALLS	82	60	94	54	71	-1	0.69	-0.21	0.35	0.70	20	16.54	72	88	50	1	0	2	0	-	-
UT SALT LAKE CITY	72	51	79	48	62	0	0.14	-0.19	0.12	1.43	125	13.47	113	87	43	0	0	2	0	-	-
VT BURLINGTON	58	39	66	35	49	-7	-	-	-	-	-	-	-	90	56	0	0	-	-	-	-
VA LYNCHBURG	72	50	78	44	61	-5	0.00	-0.77	0.00	2.25	78	25.57	84	96	56	0	0	0	0	-	-
VA NORFOLK	72	61	82	59	68	-3	-	-	-	-	-	-	-	90	64	0	0	-	-	-	-
VA RICHMOND	74	52	82	46	63	-4	0.07	-0.67	0.05	0.47	16	22.84	69	91	49	0	0	2	0	-	-
VA ROANOKE	72	51	77	47	61	-4	-	-	-	-	-	-	-	92	53	0	0	-	-	-	-
WA WASH/DULLES	70	45	74	38	57	-7	0.00	-0.75	0.00	2.31	76	24.86	82	93	53	0	0	0	0	-	-
WA HANFORD	84	50	90	44	67	-	0.01	-0.06	0.01	0.32	114	4.15	108	76	30	2	0	1	0	-	-
WA OLYMPIA	75	48	87	40	61	5	1.27	0.65	0.85	2.96	148	43.31	145	97	54	0	0	6	1	-	-
WA QUILLAYUTE	71	50	84	42	61	5	3.10	1.67	1.26	8.54	204	87.24	137	97	63	0	0	4	3	-	-
WA SEATTLE-TACOMA	73	53	82	50	63	4	-	-	-	-	-	-	-	94	55	0	0	-	-	-	-
WA SPOKANE	79	51	89	46	65	9	-	-	-	-	-	-	-	81	30	0	0	-	-	-	-
WA YAKIMA	79	44	85	40	62	4	0.00	-0.08	0.00	0.24	65	3.84	76	85	33	0	0	0	0	-	-
WV BECKLEY	66	47	70	42	58	-4	-	-	-	-	-	-	-	99	68	0	0	-	-	-	-
WV CHARLESTON	71	49	78	44	60	-5	-	-	-	-	-	-	-	100	58	0	0	-	-	-	-
WV ELKINS	87	44	75	39	58	-3	0.00	-0.83	0.00	1.34	39	31.36	91	97	53	0	0	0	0	-	-
WV HUNTINGTON	71	50	79	44	61	-4	-	-	-	-	-	-	-	99	58	0	0	-	-	-	-
WI EAU CLAIRE	70	45	78	39	57	1	0.28	-0.55	0.28	1.62	45	25.06	95	92	46	0	0	2	0	-	-
WI GREEN BAY	68	42	78	38	55	-1	-	-	-	-	-	-	-	94	50	0	0	-	-	-	-
WI MADISON	67	43	77	34	55	-2	-	-	-	-	-	-	-	96	56	0	0	-	-	-	-
WI MILWAUKEE	66	49	79	42	58	-1	-	-	-	-	-	-	-	94	61	0	0	-	-	-	-
WY CASPER	63	44	78	37	53	-1	0.43	0.19	0.31	1.11	132	10.25	103	88	49	0	0	2	0	-	-
WY CHEYENNE	62	43	74	35	53	-2	0.08	-0.18	0.06	1.99	170	17.94	143	91	56	0	0	3	0	-	-
WY LANDER	63	45	75	38	54	-1	-	-	-	-	-	-	-	87	47	0	0	-	-	-	-
WY SHERIDAN	69	40	81	34	54	1	-	-	-	-	-	-	-	83	47	0	0	-	-	-	-

NOTE: Data problems have again left us with many instances of missing data in our U.S. city table this week. We believe the problem has been found. The quality of the coded reports used as the source of the 24-hour precipitation amounts (the synoptic code) has deteriorated. To correct the problem, CPC will now use a more reliable source of data (METAR) to access the precipitation amounts. This change should result in much-improved data for next week's Bulletin.

National Agricultural Summary

September 22 - 28, 1997

HIGHLIGHTS

Moisture fell across the southern half of the United States, hampering harvest and fieldwork efforts in many areas, but also providing much-needed moisture for late-planted and fall-seeded crops. Tropical storm Nora brought rain to Arizona, California, and Nevada, but caused less damage than expected. In the Southeast, a slow-moving storm brought relief from a 2-month dry spell, but came too late for most crops.

Late-week flooding in the western Florida Peninsula adversely affected fruit and vegetable crops, and farmers are assessing the extent of the damage. Dry weather in the Northern States provided favorable weather for crop maturation, harvest operations, and fall planting. Above-normal temperatures in the northern Plains and Northwest allowed small grain farmers to complete harvest.

Corn: Virtually all of the Nation's corn acreage was dented. Corn was mature on 59 percent (%) of the acreage, 5 percentage points ahead of maturity at this time last year, but 4 points behind the 5-year average. Warm weather in the western Corn Belt pushed corn to maturation. Despite sunny skies, maturity lagged behind normal in the eastern Corn Belt due to continued below-normal temperatures. Temperatures dropped low enough to cause frost in the Northern States, but damage was minimal. Corn harvest advanced to 9% complete, equal to 1996 but 2 points behind the average. Precipitation slowed harvest in the southern plains and the Southeast. Farther north, harvest was still in the early stages. Condition of the corn crop rated mostly good.

Cotton: Bolls were opening on nearly three-quarters of the cotton acreage, behind 1996 but ahead of average. Twelve percent of the cotton acreage was harvested, behind both the 17% harvested last year and the average of 16%. Harvest was most active in Arizona and Louisiana. Tropical storm Nora caused some damage to cotton fields in western Arizona, but overall damage was less than expected. In California, cotton defoliation was slowed by rain and wet soils in southern areas, but harvest activities continued farther north. Harvest began in several Southeastern States. Cotton condition declined in most major producing States and was rated mostly good to fair.

Rice: Rice harvest was 69% complete, 2 points behind last year but 3 points ahead of average. California rice growers continued to harvest their crop well ahead of the average pace. Despite widespread showers in Arkansas, rice harvest made good progress. In Texas, heavy rainfall slowed harvest operations and caused some lodging along the Upper Coast. Second-crop rice management in southern Louisiana parishes was active, and harvest continued in the north.

Sorghum: Sorghum was turning color on virtually all of the nation's acreage, equal to progress in 1996 and ahead of 91% coloring for the average. Sixty-three percent of the sorghum acreage was mature, 2 points ahead of a year ago and 6 points ahead of the average. Twenty-eight percent of the sorghum

acreage was harvested, equal to 1996 and ahead of the average of 31%. Harvest was slowed by rainfall in the major sorghum-producing States. In Texas, harvest activity increased somewhat later in the week, but additional warm weather was needed to push the crop to maturity.

Peanuts: Peanut harvest was 37% complete, 11 points ahead of harvest in 1996. Growers in Alabama and Georgia made good harvest progress. However, in other areas of the Southeast, peanut harvest was delayed by dry soils. In Texas, fields continued to peg in central localities, while harvest activity increased farther south. Condition of the peanut crop rated mostly fair to good.

Soybeans: Above-normal temperatures in the western Corn Belt helped push soybeans to maturity and plants were actively dropping leaves. Temperatures were cooler in the eastern Corn Belt, but clear, sunny skies provided favorable weather for crop maturation. Soybeans were dropping leaves on 72% of the acreage, well ahead of 52% in 1996 and the average of 64%. Soybean harvest reached 9% complete, ahead of last year but behind the average. Harvest progressed well ahead of average in Louisiana and Mississippi. Harvest activity gained momentum in the Corn Belt, especially in Illinois and Minnesota. Soybean condition rated mostly good to fair. The much-needed rainfall in the Southeast helped some late-planted soybeans.

Winter Wheat: The 1998 winter wheat crop was 40% planted, compared with 32% planted in 1996 and the average of 41% planted. Planting was slowed by rainfall in the central and southern Plains. Producers in Montana made excellent planting progress after showers replenished dry soils last week. Winter wheat seeding continued at a swift pace in Washington, though some reseeding was underway due to last week's rainfall causing crusting problems. Emergence of the newly planted winter wheat crop was 21% complete, ahead of both 17% last year and the average of 18%. Emergence in Colorado, Montana, Nebraska, and South Dakota fields was active, following active plantings the previous week. Although slowing planting, rainfall improved soil moisture of emerging fields in the central and southern Plains.

Crop Progress and Condition

Week Ending September 28, 1997

Soybeans Percent Dropping Leaves				
	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AL	57	39	37	36
AR	23	14	32	24
GA	64	57	45	44
IL	76	48	42	69
IN	84	62	53	79
IA	81	54	61	72
KS	80	60	68	69
KY	35	31	34	40
LA	75	61	63	58
MI	51	25	48	64
MN	96	70	78	76
MS	68	60	66	57
MO	60	39	36	49
NE	91	61	58	69
NC	24	17	20	22
OH	74	51	37	81
SC	17	12	8	7
SD	94	77	86	73
TN	38	23	42	40
ALL	72	51	52	64

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

Soybeans Percent Harvested				
	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AL	3	2	4	2
AR	7	4	10	6
GA	1	1	1	1
IL	11	2	4	15
IN	6	1	3	12
IA	7	1	1	10
KS	6	5	5	9
KY	7	0	2	3
LA	41	32	30	22
MI	3	0	2	5
MN	14	2	3	7
MS	34	24	29	22
MO	4	0	3	4
NE	5	2	2	14
NC	0	0	1	0
OH	4	0	2	10
SC	0	0	0	0
SD	8	2	4	7
TN	2	0	2	2
ALL	9	3	4	10

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

Winter Wheat Percent Planted				
	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AR	1	0	5	4
CA	0	0	0	0
CO	81	64	59	73
GA	1	0	1	2
ID	40	27	44	40
IL	3	1	2	3
IN	11	5	7	9
KS	32	23	19	36
MI	21	12	13	22
MO	7	5	6	8
MT	66	31	29	39
NE	72	59	54	75
NC	8	3	10	11
OH	2	1	4	8
OK	28	18	24	43
OR	24	11	17	28
SD	86	71	62	81
TX	49	34	63	49
WA	78	58	71	67
ALL	40	28	32	41

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

Winter Wheat Percent Emerged				
	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AR	0	0	0	1
CA	0	0	0	0
CO	48	28	36	34
GA	0	0	0	1
ID	16	10	12	13
IL	0	0	0	0
IN	4	2	0	1
KS	15	5	9	16
MI	5	3	0	5
MO	0	0	0	0
MT	34	7	5	8
NE	50	27	31	41
NC	0	0	0	0
OH	0	0	1	0
OK	9	2	7	13
OR	8	3	5	8
SD	54	26	36	46
TX	24	12	38	26
WA	55	36	57	47
ALL	21	10	17	18

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

Cotton Percent Bolls Opening				
	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AL	61	43	79	71
AZ	100	99	100	99
AR	79	63	91	79
CA	100	100	100	96
GA	69	55	79	75
LA	91	86	99	96
MS	85	74	96	95
MO	85	80	86	73
NM	80	73	86	75
NC	65	48	88	84
OK	49	38	31	42
SC	70	58	86	80
TN	83	63	96	91
TX	65	50	56	53
ALL	74	62	76	72

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

Cotton Percent Harvested				
	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AL	6	3	15	11
AZ	25	16	16	17
AR	5	0	17	11
CA	10	5	9	4
GA	6	2	15	12
LA	21	11	26	26
MS	8	5	27	20
MO	5	2	19	11
NM	2	0	1	0
NC	1	0	7	6
OK	0	0	1	3
SC	6	0	15	10
TN	3	0	23	12
TX	20	17	18	24
ALL	12	8	17	16

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

Crop Progress and Condition

Week Ending September 28, 1997

Corn Percent Dented

	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
CO	98	91	99	91
GA	100	100	100	100
IL	99	95	94	96
IN	91	86	92	98
IA	98	95	95	94
KS	100	100	100	98
KY	99	95	99	99
MI	74	56	79	85
MN	99	92	99	91
MO	100	100	100	97
NE	99	95	98	98
NC	100	100	100	100
OH	91	83	77	94
PA	74	64	81	80
SD	96	86	93	87
TX	100	99	100	99
WI	90	66	79	82
ALL	96	90	94	94

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

Corn Percent Mature

	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
CO	63	30	55	44
GA	100	100	100	100
IL	56	33	57	69
IN	52	33	51	67
IA	80	56	60	69
KS	83	70	81	80
KY	65	59	83	84
MI	15	8	24	38
MN	45	21	40	50
MO	89	74	86	78
NE	67	30	60	62
NC	96	92	100	99
OH	17	8	14	41
PA	30	25	36	33
SD	60	37	48	52
TX	92	83	96	93
WI	25	10	25	42
ALL	59	38	54	63

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

Corn Percent Harvested

	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
CO	2	0	6	3
GA	92	90	86	89
IL	4	1	6	8
IN	4	2	5	8
IA	3	1	3	5
KS	24	20	19	23
KY	22	17	35	33
MI	1	0	2	6
MN	2	1	3	3
MO	28	22	30	25
NE	4	1	3	6
NC	65	54	64	63
OH	0	0	4	5
PA	7	6	9	6
SD	2	0	3	3
TX	76	65	73	77
WI	1	0	2	4
ALL	9	6	9	11

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

Sorghum Percent Coloring

	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AR	100	99	100	100
CO	57	35	92	78
IL	90	84	92	88
KS	96	93	95	88
LA	100	100	100	100
MS	100	98	100	100
MO	98	95	94	92
NE	99	95	98	93
NM	84	64	70	76
OK	94	89	94	90
SD	98	91	99	84
TX	97	92	98	94
ALL	96	91	96	91

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

Sorghum Percent Mature

	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AR	92	87	97	95
CO	4	3	23	24
IL	38	20	45	52
KS	51	39	49	40
LA	100	100	100	98
MS	92	90	100	99
MO	69	51	62	64
NE	71	29	43	45
NM	9	5	31	19
OK	56	22	41	27
SD	62	36	71	48
TX	78	66	83	82
ALL	63	47	61	57

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

Sorghum Percent Harvested

	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AR	72	63	74	75
CO	1	0	1	1
IL	1	0	1	4
KS	11	10	9	9
LA	95	94	96	89
MS	76	71	88	83
MO	21	13	14	24
NE	2	0	0	4
NM	0	0	0	3
OK	7	6	13	10
SD	3	1	6	3
TX	58	55	62	70
ALL	28	25	28	31

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

Crop Progress and Condition

Week Ending September 28, 1997

Peanuts Percent Harvested				
	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AL	66	39	36	NA
FL	61	42	49	NA
GA	50	27	38	NA
NC	6	3	8	NA
OK	2	2	7	NA
SC	34	20	22	NA
TX	19	11	5	NA
VA	9	2	19	NA
ALL	37	21	26	NA

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

Rice Percent Harvested				
	Sep 28 1997	Prev Week	Prev Year	5-Yr Avg
AR	58	41	73	65
CA	60	30	23	23
LA	92	84	94	90
MS	66	56	78	69
TX	87	83	100	93
ALL	69	53	71	66

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

Soybeans Crop Condition by Percent					
	VP	P	F	G	EX
AL	6	11	50	29	4
AR	1	14	34	42	9
GA	18	28	32	21	1
IL	2	9	34	48	7
IN	2	7	33	47	11
IA	1	5	26	55	13
KS	0	2	24	58	16
KY	2	6	30	56	6
LA	3	18	31	44	4
MI	2	6	37	42	13
MN	1	7	31	50	11
MS	1	10	27	48	14
MO	3	14	39	39	5
NE	2	10	36	43	9
NC	4	17	21	53	5
OH	1	5	26	51	17
SC	3	15	39	38	5
SD	1	4	16	51	28
TN	1	3	24	54	18
ALL	2	8	30	49	11
Prev Wk	2	8	31	48	11
Prev Yr	3	9	31	46	11

Corn Crop Condition by Percent					
	VP	P	F	G	EX
CO	1	3	16	68	12
GA	1	8	39	46	6
IL	3	10	37	44	6
IN	3	9	34	46	8
IA	1	5	25	55	14
KS	1	6	16	60	17
KY	5	15	45	33	2
MI	3	11	40	38	8
MN	1	5	19	57	18
MO	9	19	40	29	3
NE	3	6	24	55	12
NC	4	16	31	44	5
OH	2	5	24	50	19
PA	10	25	38	25	2
SD	0	3	13	51	33
TX	0	0	3	66	31
WI	0	2	12	57	29
ALL	2	7	26	51	14
Prev Wk	3	8	27	48	14
Prev Yr	2	7	26	47	18

Cotton Crop Condition by Percent					
	VP	P	F	G	EX
AL	6	12	69	12	1
AZ	0	4	17	60	19
AR	1	13	35	44	7
CA	0	0	10	65	25
GA	4	15	38	35	8
LA	4	12	35	44	5
MS	1	6	33	50	10
MO	0	20	36	43	1
NM	0	2	23	66	9
NC	7	14	35	41	3
OK	0	1	17	72	10
SC	2	12	36	45	5
TN	2	7	30	54	7
TX	2	13	35	43	7
ALL	2	11	33	46	8
Prev Wk	3	10	31	45	11
Prev Yr	4	10	25	44	17

Peanuts Crop Condition by Percent					
	VP	P	F	G	EX
AL	10	56	25	8	1
FL	4	35	59	1	1
GA	8	18	46	24	4
NC	0	10	60	28	2
OK	0	3	37	57	3
SC	3	10	35	47	5
TX	1	9	36	40	14
VA	4	16	42	34	4
ALL	5	21	42	27	5
Prev Wk	4	22	36	30	8
Prev Yr	1	8	30	50	11

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 5.3. Topsoil 2% very short, 36% short, 54% adequate, and 8% surplus. Corn harvested 85%, compared with 73% 1996 and the 74% avg. Livestock 1% very poor, 4% poor, 42% fair, 49% good, and 4% excellent. Wheat planted 3%, compared with 9% in 1996 and the 9% avg. Rains fell in many areas, yet additional moisture is needed for fall pastures and small grain seed germination.

ALASKA: Days suitable for digging potatoes and harvesting grain 6, and days available for making hay 4.5. Topsoil moisture 15% short and 85% adequate. Subsoil moisture 10% short and 90% adequate. Hay harvest 60% complete and 10% behind 1996. Commercial potato harvest 90% complete, compared with 80% in 1996. Barley harvest more than 95% complete, slightly ahead of 1996. Supply of straw 40% short and adequate.

ARIZONA: Tropical storm Nora caused some crop damage in western areas, and all damage was less than expected. Alfalfa harvest activity was 4% light, 20% moderate, and 57% active, with 19% not being harvested. Condition was 1% poor, 19% fair, 57% good, and 23% excellent. Light volume of watermelon, cantaloupe, honeydews, carrots, and green onions were shipped from the central area. Flood damaged recently planted broccoli, cauliflower, and lettuce in the west. Apples, chile peppers, and pistachios were harvested in the east.

ARKANSAS: Days suitable for fieldwork 5. Soil moisture 2% very short, 24% short, 65% adequate, and 9% surplus. Main farming activities: Harvesting rice and sorghum, defoliating cotton, and last hay cutting. Other farm activities: soybean and cotton harvesting, wheat fields preparation for planting, fall forage planting, and fertilizing fall pastures. Conditions for corn 4% poor, 30% fair, 56% good, and 10% excellent. Alfalfa hay 9% poor, 38% fair, 52% good, and 1% excellent. Other hay 3% very poor, 22% poor, 42% fair, and 33% good. Pasture feed 3% very poor, 25% poor, 38% fair, 32% good, and 2% excellent.

CALIFORNIA: Field activities progressed normally in most areas. Rainfall caused some fieldwork delays from Kings County southward. No significant damage was reported to field crops. Field preparation for planting small grains and forage crops continued. Early-seeded fields of oats, hay, and winter forage showed good growth. Cotton defoliation was slowed by rain and wet soils in the Imperial and southern San Joaquin Valleys. Application of defoliants and growth regulators continued in most growing areas. Cotton harvest gained momentum in the northern San Joaquin Valley. Rice harvest was in full swing and began to wind down in the Sacramento Valley. Blackeye and garbanzo beans, corn for grain and silage, safflower, and sugar beets were harvested. Seed alfalfa harvest was complete. New crop sugar beets were sprayed for armyworms. Sugar beet planting was underway in the Imperial and San Joaquin Valleys. Alfalfa and sudangrass were cut for hay or green chopped. There was some concern over potential for mold damage in wind-rowed hay fields in the southern counties. Almond harvest was nearly complete. Pistachio, walnut harvests continued. Late varieties of nectarines, peaches, and plums were still being harvested in the southern San Joaquin Valley. Granny Smith apples were released for harvest in Sonoma County. Other apple varieties harvested included the Golden, Red Delicious, Fuji, Braeburn, and Royal Gala. Nearly three-quarters of the raisin grapes have been harvested and picked up, with the remaining either rolled or in open trays. Table grape harvest was slowing, with growers applying fungicides to control humidity-related bunch rot. Wine grape harvest continued. Sonoma County wine grape harvest was 75% complete; bunch rot was a concern in the

Chardonnay and Zinfandel varieties. Harvest of Asian pears, persimmons, figs, and pomegranates continued. Navel orange growers were treating for red scale, and applying gibberellic acid to delay fruit drop and maturity. Olives were harvested. Lettuce, cauliflower, and broccoli were harvested in the Gilroy-Hollister area. Cauliflower, cucumber, and broccoli crops were progressing well in the coastal areas. Remnants of Hurricane Nora affected the lettuce, broccoli, cauliflower, carrot crops planted for fall harvest in the Imperial Valley. Because of the rainfall, some mold damage was expected and delays in harvesting may occur where replanting was necessary. Sweet corn was still being harvested along the coast. Spinach was being planted in Tulare County. Some pumpkin fields were damaged by whitefly infestations. Honeydew, cantaloupe, and watermelon harvests were winding down in the central San Joaquin Valley. Carrot and sweetpotato harvests were nearing completion in Kings County. Potato harvest progressed in Siskiyou County. Other crops harvested were onions, garlic, radishes, vineseed, eggplant, squash, okra, and green beans. Pasture and rangeland remained very dry despite moderate temperatures and higher-than-normal humidity. Rains in the southern portion of the State did little to relieve the overall poor condition of rangeland. Supplemental feeding was widespread. Sheep were being moved off the range to graze alfalfa and grass hay stubble in Fresno and Imperial Counties. Livestock were in good condition.

COLORADO: Days suitable for fieldwork 5.0. Topsoil 4% very short, 24% short, 67% adequate, and 5% surplus. Subsoil 3% very short, 65% short, 25% adequate, and 7% surplus. Scattered precipitation was seen across the State this past week, mixed with sunny days and seasonable temperatures. Rains have slowed harvest, and affected crop quality in some areas. Spring wheat 82% harvested, compared with 97% in 1996 and the 87% avg. Summer potatoes 83% harvested, compared with 83% in 1996 and the 85% avg. Dry onion 90% harvested, compared with 95% in 1996 and the 82% avg. Fall potatoes 68% harvested, compared with 55% in 1996 and the 54% avg. Sugar beets 7% harvested, compared with 7% in 1996 and the 1% avg.; condition 1% very poor, 3% poor, 16% fair, 64% good, and 16% excellent. Dry beans 83% cut, compared with 94% in 1996 and the 80% avg.; progress 71% threshed, compared with 81% in 1996 and the 64% avg. Alfalfa 77% (3rd cutting), compared with 76% in 1996 and the 70% avg.; 10% (4th cutting), compared with 9% in 1996 and the 13% avg.; condition 2% very poor, 8% poor, 27% fair, 48% good, and 15% excellent.

DELAWARE: Days suitable for fieldwork 5.7. Topsoil 39% short, and 61% adequate. Subsoil moisture 2% very short, 37% short, and 61% adequate. Corn 12% very poor, 24% poor, 23% fair, 38% good, and 3% excellent. Field corn 96% dent; 100% 1996, 99% avg.; 55% mature, 65% in 1996, 76% avg.; 22% harvested for grain, 24% in 1996, 32% avg.; 82% harvested for silage, 77% 1996, 89% avg. Soybeans 5% very poor, 27% poor, 34% fair, 33% good, and 1% excellent; 45% turned, 28% 1996, 44% avg.; 24% shedding leaves, 17% 1996, 25% avg. Sorghum 11% poor, 60% fair, 29% good; and 65% turning color, 58% 1996, 65% avg.; 28% mature, 43% 1996, 34% avg. Tomatoes 95% harvested, 98% 1996, 99% avg. Snap beans 85% harvested, 93% 1996, 97% avg. Lima beans 76% harvested, 84% 1996, 79% avg. Apples 6% poor, 29% fair, 64% good, and 1% excellent; 77% harvested, 74% 1996, 63% avg. Hay supplies 22% very short, 47% short, and 31% adequate. Clover and other hays 57% (4th cutting), 54% 1996, 22% avg. Alfalfa 66% (4th cutting), 67% 1996, 67% avg. Pasture feed 3% very poor, 38% poor, 43% fair, and 16% good. Activities: Corn harvesting continued, ear rot being reported on Delmarva, and soybean cyst nematodes reported as being possible problem.

FLORIDA: Topsoil moisture was mostly very short to short in the Panhandle and northern Peninsula. In the central and southern Peninsula, moisture was short to adequate. Sugarcane growth was normal. Tobacco marketing was starting to wind down. Dry weather was adversely affecting field crops and forage in the Panhandle and northern Peninsula. Some peanuts were being harvested early due to vines dying. Peanut harvest was delayed by dry soil conditions in some areas. Producers were starting to defoliate cotton. Dry weather was excellent for haying. Peanuts were 61% harvested, and their condition was very poor 4%, poor 35%, fair 59%, good 1%, and excellent 1%. Rainy weather at the end of the week reduced effectiveness of pesticides and delayed the spraying of pesticides on vegetables in affected areas. Growers were concerned about the spread of disease. Watermelons, cantaloupes, snap beans, and cabbage were adversely affected by heavy rains in the Palmetto-Ruskin region. Total damage was being assessed. Tomato picking was underway around Quincy. The first of the week was dry, with welcomed rains coming by week's end. All citrus areas received heavy rain in the west coast area. Some caretakers were irrigating. Some afternoon wilt was in nonirrigated groves. New crop fruit was slightly advanced for late September. Picking crews were moving early oranges, early tangerines, Satsumas, K-earlys, and white and colored grapefruits. Caretakers were cutting cover crops, spraying, herbiciding, and pushing and burning dead and abandoned trees. Pasture feed condition was very poor 5%, poor 10%, fair 35%, good 45%, and excellent 5%. Cattle condition was poor 5%, fair 35%, good 55%, and excellent 5%. Range and pasture conditions were generally worse throughout the State. In the Panhandle, some bermuda grass in pastures was damaged by the prolonged drought. Quality of grass was poor in the north. Armyworms and loopers were numerous in the west-central area. Most cattle and calves were in fair to good condition.

GEORGIA: Days suitable for fieldwork 4.8. Soil moisture 11% very short, 21% short, 53% adequate, and 15% surplus. Hay 7% very poor, 26% poor, 41% fair, 24% good, and 2% excellent. Peanuts 66% dug, 53% 1996, 60% avg. Rye 7% planted, 9% 1996, 12% avg. Sorghum 6% very poor, 16% poor, 42% fair, and 36% good; 38% harvested for grain, 39% 1996, 50% avg. Other small grains 4% planted, 5% 1996, 6% avg. Apples 3% poor, 15% fair, 75% good, and 7% excellent; 63% harvested, 68% 1996, 65% avg. Pecans 2% very poor, 17% poor, 40% fair, 40% good, and 1% excellent; 0% harvested, 0% 1996, 1% avg. Heavy rains brought an end to the drought, with a first significant rainfall in 2 months for many areas. Crop conditions showed little change. Rain was too late for overall improvement, but is expected to help some late soybeans, peanuts, pastures, and late hay and allow small grain planting to resume. More rain through the weekend will improve soil moisture ratings. Main activities: Harvesting peanuts, defoliating, harvesting cotton, harvesting corn, and vegetables.

HAWAII: The weather fair for agriculture. Mostly dry. Isolated heavy showers early in the week. Irrigation heavy. Insect activity moderate to heavy, closely monitored. Banana harvesting steady, with crop condition mostly good. Papaya harvesting active, crop condition varied fair to good. Head cabbage harvesting increasing from additional acreage and crop adjusting to seasonal change. Bell pepper harvesting light, expected to increase. Tomato harvesting steady. Planting for winter active. Watermelon harvesting active, declining in most areas.

IDAHO: Days suitable for fieldwork 6.2. Topsoil 9% surplus, 80% adequate, 11% short. Periodic rains continued to delay final grain harvest in northern, eastern areas. Sprouting has occurred in some of the remaining grain fields in northern areas, is a concern in eastern areas. Spring wheat harvested 96%, 99% 1996, 93% avg. Barley harvested 93%, 98% 1996, 95% avg. Potatoes vines dying/killed 92%, 95% 1996, 98% avg.; harvested 27%, 24% 1996, 33% avg. Potato 6% excellent, 62% good, 26% fair, and 6% poor. Alfalfa hay harvested (3rd cutting) 72%, 76% 1996, 76% avg. Oats harvested for grain 89%, 90% 1996, 91% avg. Dry peas harvested 99%, 99% 1996, 98% avg. Lentils harvested 97%, 97% 1996, 89% avg. Peaches harvested 99%, 96% 1996, 97% avg. Dry beans harvested

78%, 84% 1996, 72% avg. Hops harvested 100%, 94% 1996, 96% avg. Prunes, plums harvested 99%, 85% 1996, 95% avg. Apples harvested 26%, 27% 1996, 35% avg. Mint harvested 99%, 99% 1996, 99% avg. Onions harvested 70%, 80% 1996, 72% avg. Sugar beets harvested 9%, 8% 1996, 10% avg. Sweet corn harvested 95%, 98% 1996, 94% avg. Corn harvested for silage 57%, 52% 1996, 56% avg. Corn harvested for grain 5%, 3% 1996, 3% avg. Irrigation water supply 47% excellent, 51% good, 1% fair, and 1% poor. Activities: Rolling, killing potato vines, harvesting, preparing seed beds, irrigating, seeding winter grains, moving livestock down from summer range.

ILLINOIS: Days suitable for fieldwork 5.1. Topsoil 2% very short, 20% short, 76% adequate, 2% surplus. Soybean harvest gained momentum last week. Corn harvest was slower, which consisted mainly of high moisture corn and seed corn. Farmers in the north breathed a sigh of relief after last week's reasonable temperatures and less-than-normal precipitation. Forecast is for more of the same weather during the upcoming week. Final cutting of hay continued last week as did preparations and field testing of equipment for harvest. Other activities last week included chopping silage, harvesting apples, and attending the Farm Progress Show. Soybeans turning yellow 94%, 74% 1996, 89% avg. Alfalfa hay (3rd cutting) 97%, 95% 1996, 93% avg. Sorghum 2% very poor, 9% poor, 30% fair, 56% good, and 3% excellent.

INDIANA: Days suitable for fieldwork 5.7. Topsoil 9% very short, 23% short, 64% adequate, and 4% surplus. Subsoil 12% very short, 23% short, 62% adequate, and 3% surplus. Corn and soybean harvest continued to progress. Range and pasture feed 7% very poor, 20% poor, 37% fair, 33% good, and 3% excellent. Third cutting of alfalfa 95% complete. Tobacco 60% harvested, 85% 1996, 88% avg. Activities: Harvesting soybeans and corn, cutting silage, preparing machinery and equipment, baling hay, preparing and planting wheat seedbeds, mowing pastures and roads, and caring for livestock.

IOWA: Days suitable for fieldwork 4.5. Topsoil 4% very short, short 19%, adequate 72%, surplus 5%. Subsoil 10% very short, short 30%, adequate 56%, and surplus 4%. Warm weather helped to force the crops along, and rain was beneficial to pastures and hay. Frost was reported in the northern section of the State, but did very little damage. Corn and pasture conditions improved over the past week, while the soybean condition remained unchanged. Corn dent stage 98%, 96% 1996, 94% avg.; mature 80%, 60% 1996, 69% avg.; harvested 3%, 3% 1996, 5% avg. Percentage of moisture in early corn ranged from 22% to 30%. Soybean acreage with leaves turning color 99%, 91% 1996, 92% avg.; leaves dropping 81%, 61% 1996, 72% avg.; harvested 7%, 1% 1996, 10% avg. Alfalfa hay (3rd harvest) 92% complete, 94% 1996, 90% avg. Corn 1% very poor, 5% poor, 25% fair, 55% good, and 14% excellent. Soybean 1% very poor, 5% poor, 26% fair, 55% good, and 13% excellent. Livestock in good condition. While rain helped pastures, some producers are concerned about short supplies of hay. Some calves are being weaned. Pasture feed 7% very poor, 17% poor, 32% fair, 35% good, and 9% excellent.

KANSAS: Days suitable for fieldwork 2.1. Topsoil 1% very short, 10% short, 69% adequate, and 20% surplus. Subsoil 2% very short, 17% short, 76% adequate, and 5% surplus. Wheat seedings and fall harvest were slowed across the State by widespread rains. Progress for the seeding and fall harvest are close to average as they were ahead of average up to this week. Sorghum 1% very poor, 3% poor, 17% fair, 63% good, and 16% excellent. Sunflowers 1% very poor, 5% poor, 34% fair, 55% good, and 5% excellent. Sunflowers mature 71% and harvested 6%. Fourth-cut alfalfa 69%, 67% 1996, 62% avg. Stock water supplies 8% short, 89% adequate, and 3% surplus. Major field activities: Planting wheat and conducting fall harvest.

KENTUCKY: Days suitable for fieldwork 4.5. Topsoil 8% very short, 32% short, 56% adequate, and 4% surplus. Subsoil 12% very short, 32% short, 55% adequate, and 1% surplus. Burley tobacco cut 69%, 85% 1996, 89% avg. Dark tobacco cut 79%, 89% 1996, 92% avg. Housed tobacco 2% very poor, 5% poor, 33% fair, 53% good,

and 7% excellent. Pasture feed 8% very poor, 18% poor, 35% fair, 35% good, and 4% excellent. Tobacco cutting, housing, and curing main activities. Badly needed rain was received in many areas. Corn harvest is behind 1996 and average. Soybean harvest just underway in some areas.

LOUISIANA: Days suitable for fieldwork 4.9. Soil moisture 9% very short, 32% short, 51% adequate, 8% surplus. A strong system brought rainfall to most areas, relieving drought stress. Some eastern parishes were still in need of more rain. Corn 100% harvested, 100% 1996, 99% avg. Cotton harvest was active in all areas. Hay 98% (2nd cutting), 97% 1996, 88% avg. Rice 100% ripe, 100% 1996, 98% avg. Second-crop rice management in the southern parishes was active, harvest continued in the north. Soybeans 90% turning color, 86% 1996, 82% avg. Groups 5 and 6 soybeans were beginning to turn color. It is reported that yield reductions will be widespread because of the recent drought. Sugarcane 3% poor, 16% fair, 64% good, 17% excellent; 94% planted, 65% 1996, 75% avg. Planting was delayed a couple of days by rain. Harvest began on a small scale in all areas. Sweetpotatoes 1% very poor, 8% poor, 42% fair, 49% good, 44% harvested, 45% 1996, 51% avg. Harvest resumed as rain helped soil conditions, prevented bruising. Wheat 3% planted, 1% 1996, 1% avg. Livestock 7% poor, 36% fair, 51% good, 6% excellent. Vegetables 3% very poor, 24% poor, 46% fair, 26% good, 1% excellent.

MARYLAND: Days suitable for fieldwork 6.4. Topsoil 15% very short, 43% short, 42% adequate. Subsoil 25% very short, 40% short, 34% adequate, 1% surplus. Corn 39% very poor, 23% poor, 22% fair, 13% good, 3% excellent. Field corn 98% dent, 95% 1996, 96% avg.; 65% mature, 70% 1996, 76% avg.; 13% harvested for grain, 24% 1996, 29% avg.; 74% harvested for silage, 70% 1996, 67% avg. Soybeans 10% very poor, 22% poor, 39% fair, 24% good, 5% excellent; 50% turned, 48% 1996, 60% avg.; 25% shedding leaves, 24% 1996, 33% avg. Sorghum 2% very poor, 17% poor, 40% fair, 36% good, 5% excellent; 85% turned, 76% 1996, 83% avg.; 20% mature, 48% 1996, 48% avg. Lima beans 60% harvested, 70% 1996, 71% avg. Snap beans 98% harvested, 98% 1996, 96% avg. Tobacco 97% harvested, 99% 1996, 95% avg. Apples 3% very poor, 6% poor, 28% fair, 51% good, 12% excellent; 47% harvested, 36% 1996, 47% avg. Hay supplies 24% very short, 31% short, 42% adequate, 3% surplus. Alfalfa hay 66% (4th cutting), 64% 1996, 73% avg. Clover and other hays 77% (3rd cutting), 76% 1996, 79% avg.; 24% 4th cutting, 43% 1996, 37% avg. Activities: corn harvesting continued, sweet corn, tomato, and snap bean harvests completed. Entire State still needed more precipitation.

MICHIGAN: Days suitable for fieldwork 6.0. Topsoil 3% short, 90% adequate, 7% surplus. Subsoil 1% very short, 8% short, 85% adequate, 6% surplus. Despite below-normal temperatures across most of the State, the sunny weather pushed lagging crops. Scattered frost hit some areas during the week, damage was minimal. All hay (3rd cutting) harvested 76% 1997, 81% 1996, 75% avg.; (4th cutting) harvested 23% 1997, 21% 1996, 23% avg. All hay 5% very poor, 13% poor, 47% fair, 32% good, 3% excellent. Corn silage harvested 26% 1997, 32% 1996, 44% avg. Dry beans leaves dropping 99% 1997, 89% 1996, 93% avg.; mature 89% 1997, 56% 1996, 76% avg.; harvested 50% 1997, 11% 1996, 44% avg.; 8% very poor, 12% poor, 32% fair, 35% good, 13% excellent. Pasture feed 2% very poor, 16% poor, 48% fair, 29% good, 5% excellent.

MINNESOTA: Days suitable for fieldwork 5.6. Topsoil 3% very short, 12% short, 79% adequate, 6% surplus. Corn 99% denting, 99% 1996, 91% avg.; 45% mature, 40% 1996, 50% avg.; 2% harvested, 3% 1996, 3% avg.; 73% silage cut, 59% 1996, 45% avg. Soybeans 96% shedding leaves, 78% 1996, 76% avg.; 61% mature, 33% 1996, 37% avg.; 14% harvested, 3% 1996, 7% avg. Rye 90% seeded, 85% 1996, 82% avg. Winter wheat 93% seeded, 98% 1996, 85% avg. Sunflowers 0% harvested, 14% 1996, 11% avg. Potatoes 57% harvested, 47% 1996, 48% avg. Flax 40% harvested, 51% 1996, 52% avg. Dry beans 82% harvested, 68% 1996, 58% avg. Stubble plowed 69%, 66% 1996, 60% avg. Sugar beets 8% harvested, 11% 1996, 12% avg. Pasture feed 6% very poor, 11% poor, 37% fair, 41% good, 5%

excellent. Corn 1% very poor, 5% poor, 19% fair, 57% good, 18% excellent. Soybeans 1% very poor, 7% poor, 31% fair, 50% good, 11% excellent.

MISSISSIPPI: Days suitable for fieldwork 4.2. Soil moisture 12% very short, 23% short, 45% adequate, 20% surplus; corn 91% grain harvested, 86% 1996, 78% avg. Soybeans 99% setting pods, 100% 1996, 100% avg.; 81% turning color, 87% 1996, 82% avg.; 68% shedding leaves, 66% 1996, 57% avg.; 34% harvested, 29% 1996, 22% avg.; 1% very poor, 10% poor, 27% fair, 48% good, 14% excellent. Sweetpotatoes 27% harvested, 44% 1996; 53% avg.; 6% poor, 40% fair, 54% good. Hay (warm season) 97% harvested, 99% 1996, 99 avg. Cattle 1% very poor, 5% poor, 22% fair, 55% good, 17% excellent. Pasture feed 6% very poor, 15% poor, 34% fair, 39% good, 6% excellent. Activities: Main activities: Harvesting corn, rice, soybeans, defoliating cotton.

MISSOURI: Days suitable for fieldwork 4.1. Topsoil 3% very short, 21% short, 72% adequate, 4% surplus. Soybean are most advanced in the northwestern district at 37% mature, least advanced southeast at 12% mature. Bean harvest is just getting started in all districts. Corn is over 90% mature in all districts except northeast 67%, east central 88%. Corn harvest 10% northeast, northwest to 78% southeast. Sorghum mature 37% central district to over 80% northwestern, north central, southwestern, southeastern districts. Sorghum harvest varies just beginning northwest, northeast to 40% or more southwest, southeast. Pasture feed 4% very poor, 13% poor, 47% fair, 34% good, 2% excellent.

MONTANA: Days suitable for fieldwork 6.8. Topsoil 9% very short, 48% short, 43% adequate. Subsoil 7% very short, 43% short, 50% adequate. Harvest of small grains is nearing completion. Seeding of winter wheat in some areas delayed due to dry conditions. Spring wheat harvested 97%, 99% 1996, 84% avg. Barley harvested 97%, 97% 1996, 86% avg. Corn for silage harvested 70%, 75% 1996, 71% avg. Dry beans harvested 90%, 87% 1996, 79% avg. Alfalfa hay (second cutting) 93% complete, 97% 1996, 95% avg. Cattle, calves moved from summer ranges 25%, 31% 1996, 26% avg. Sheep, lambs moved from summer ranges 31%, 36% 1996, 30% avg. Livestock good to excellent.

NEBRASKA: Days suitable for fieldwork 2.8. Subsoil 7% very short, 35% short, 56% adequate, 2% surplus. Topsoil 4% very short, 15% short, 73% adequate, 8% surplus. Harvest of fall crops, wheat seeding progressed at a slow pace last week due to wide spread precipitation. Rain received last week should aid germination of newly seeded wheat, alfalfa. Grasshopper population continued to be a concern in many areas. Corn 3% very poor, 6% poor, 24% fair, 55% good, 12% excellent; irrigated corn 77% good to excellent, dryland corn 49% good to excellent; 67% mature, 60% 1996, 62% avg.; 4% harvested, 3% 1996, 6% avg.; corn borer damage and stalk rot were concerns for many producers. Soybean 2% very poor, 10% poor, 36% fair, 43% good, 9% excellent; 91% dropped leaves, 58% 1996 69% avg.; 5% harvested, 2% 1996, 14% avg. Sorghum 3% very poor, 7% poor, 37% fair, 44% good, 9% excellent; 71% mature, 43% 1996, 45% avg.; 2% harvested, 0% 1996, 4% avg. Dry bean 98% dropped leaves, 99% 1996, 78% harvested, 70% 1996. Alfalfa 4% very poor, 17% poor, 35% fair, 41% good, 3% excellent; 41% (4th cutting), 35% 1996; some producers will not make a 4th cutting due to lack of growth from dry conditions; a few reports indicated that more corn silage will be cut to replace short hay supplies. Winter wheat 72% planted, 54% 1996, 75% avg.; 50% emerged, 31% 1996, 41% avg.; wheat stands uneven in southwest areas due to dry conditions; rain received should improve germination, more is needed. Pasture feed 8% very poor, 20% poor, 35% fair, 36% good, 1% excellent; some supplemental feeding; cattle will be moved to stalks as corn harvest progresses; mild temperatures and cool nights were favorable for livestock.

NEVADA: Irrigation continues with water supplies adequate. Fall pastures, range benefited from timely rains. Fall seeding of winter grains, new alfalfa fields continued. Rains interrupted haying in most areas, damaged some windrowed hay. Alfalfa third cutting very nearly

complete, fourth, fifth cuttings underway south. Alfalfa seed harvest progressing. Garlic harvest nearly complete. Onion, potato harvests continue. Calves being weaned, preconditioned for feed lot placement. Main farm, ranch activities: Haying, onion harvest, potato harvest, weaning calves.

NEW ENGLAND: Days suitable for fieldwork 6.0. Topsoil 14% short, 81% adequate, 5% surplus. Subsoil 9% short, 87% adequate, 4% surplus. Pasture feed 3% poor, 29% fair, 63% good, 5% excellent. Maine potatoes 30% harvested, 50% 1996, 50% avg.; condition good. Massachusetts potatoes 80% harvested, 75% 1996, 75% avg.; good. Rhode Island potatoes 90% harvested, 55% 1996, 70% avg.; good to excellent. Oats in Maine 80% harvested, 85% 1996, 90% avg.; condition good. Barley in Maine 85% harvested, 90% 1996; condition good. Field corn 25% harvested, 30% 1996, 40% avg.; condition good to fair. Sweet corn 95% harvested, 95% 1996, 95% avg.; condition good. First cut hay 99% harvested, 99% 1996, 99% avg.; condition good to fair. Second cut hay 85% harvested, 85% 1996, 90% avg.; condition good to fair. Third cut hay 70% harvested, 60% 1996, 70% avg.; condition good. Apples 60% harvested, 50% 1996, 50% avg.; fruit size avg. to above avg.; condition good to excellent. Peaches 99% harvested; 99% 1996, fruit size avg to above avg.; condition good to excellent. Pears 45% harvested, 60% 1996; fruit size avg. to above avg.; condition fair to good. Cranberries 15% harvested, 20% 1996; fruit size avg. to above avg.; condition good to excellent. Highbush blueberries 100% harvested, 99% 1996; fruit size avg. to above avg.; condition good to excellent. Cool, dry week. Good harvesting conditions so far as fall fieldwork continues. Major farm activities: Harvesting peppers, tomatoes, field corn, potatoes, pumpkins, winter squash, oats, barley, cranberries, apples, pears; spreading manure; disking down harvested fields, planting cover crops; cutting hay; spreading lime, fertilizer.

NEW JERSEY: Days suitable for fieldwork 7. Topsoil short to adequate. Main farming activities: Harvesting vegetables, planting cover, implementing pest control measures. Harvesting of summer vegetables (tomatoes, eggplant, green beans, peppers, squash, cucumbers, potatoes, snap beans) is nearly complete. Harvesting of fall items (spinach, cabbage, parsley, lettuce, endive, escarole, indian corn, beets, turnips, pumpkins) is increasing. Soybeans are dropping leaves. Harvesting of corn for silage continues with a light harvest of corn for grain occurring. Pasture conditions reported as fair to good. Limited volume of peaches available. Good, increasing volume of apples.

NEW MEXICO: Days suitable for fieldwork 6.1. Topsoil 1% very short, 23% short, 74% adequate, 2% surplus. Hay harvest was delayed in many areas again last week because of rainfall. Alfalfa 5th cutting 65% complete, (6th cutting) 14% completed; 1% very poor, 16% poor, 21% fair, 61% good, 1% excellent. Cotton harvest began; 2% harvested, 1% 1996, 0% avg.; 80% bolls open, 86% 1996, 75% avg.; 2% poor, 23% fair, 66% good, 9% excellent. With sorghum harvest only a few weeks away condition was rated 16% poor, 36% fair, 48% good; 84% coloring, 70% 1996, 76% avg.; 9% mature, 31% 1996, 19% avg.; 0% harvested, 0% 1996, 3% avg. Green chile harvest advanced to 88% complete, while red chile harvest was just getting underway; 1% poor, 25% fair, 64% good, 10% excellent. Corn 8% fair, 85% good, 7% excellent; 62% mature, 91% 1996; 6% of grain crop harvested, 85% of silage in. Wheat producers continued planting; 82% complete, 87% 1996, 86% avg.; 45% emerged, 69% 1996, 37% avg. Apples continued in fair to good condition, with 69% of the crop harvested. Outlook for the pecan crop is good; 17% fair, 60% good, 23% excellent. Fall onion planting was underway, by the end of last week 13% of the crop had been planted. Cattle, sheep were in mostly good condition. Range, pasture feed conditions are far above normal; 1% very poor, 9% poor, 21% fair, 62% good, 7% excellent.

NEW YORK: Days suitable for fieldwork 5.8. Soil moisture 89% adequate, 11% surplus. Pasture feed 26% fair, 74% good. Light frost in southern areas, heavy frost in north. Hay 20% fair, 80% good. Alfalfa 3rd cutting 79%, 72% 1996, 77% avg. Corn silage 32% harvested, 29% 1996, 32% avg. Grain corn slow to mature. Dry

bean harvest in high gear. Wet weather slowing harvest, 20% complete. Potato digging continued, about 50% of crop harvested. Vegetable harvesting nearing completion. Onion digging continued very active with good quality reported. Pumpkin, squash harvest picking up. Apple harvest in full swing. Concord grape harvest underway, one week later than normal. Early varieties of grapes being harvested in Finger Lakes region. Hudson Valley peach harvest near completion.

NORTH CAROLINA: Days suitable for fieldwork 4.7. Soil moisture 1% very short, 24% short, 61% adequate, 14% surplus. Second week in a row farmers benefited from soaking rainfalls across much of the State. This has particularly helped the fall pastures, also those planting small grains. However, in some areas the rain has hindered the tobacco harvest, overall the rains have been welcome, many farmers are hoping it will still improve yield prospects for cotton, peanuts, soybeans. Many areas are experiencing labor shortages as numerous areas in the State are experiencing peak harvests simultaneously. Activities included: Harvesting, burning, marketing of flue-cured tobacco; harvesting burley tobacco, apples, sweet potatoes, corn; cutting silage; cutting hay; scouting, spraying for insects on cotton, soybeans; defoliating cotton; planting, preparing land for planting of small grains; maintaining pastures; tending livestock; repairing equipment.

NORTH DAKOTA: Days suitable for fieldwork 7. Topsoil 18% very short, 41% short, 38% adequate, 3% surplus. Subsoil 10% very short, 38% short, 49% adequate, 3% surplus. Above normal temperatures, dry conditions allowed producers to virtually complete small grain harvest, make substantial progress on late season crop harvest. Durum wheat 97% combined; 83% 1996; 83% avg. Producers reported most progress on soybean harvest, while sugar beet lifting continued at a pace behind last year and average. Canola 91% combined; 81% 1996. Corn for grain 77% ripe and beyond, 3% harvested; 68%, 4% 1996; 47%, 2% avg.; silage 75% chopped; 60% 1996; 56% avg.; dry edible beans 92% cut, 78% combined; 77%, 65% 1996; 66%, 50%, avg. Flaxseed 90% combined; 68% 1996; 55% avg. Potatoes 64% dug; 42% 1996; 63% avg. Soybeans 57% harvested; 24% 1996; 22% avg. Sugarbeets 7% lifted; 10% 1996; 11% avg. Sunflower 79% bracts turned brown and beyond, 5% harvested; 72%, 2% 1996; 62%, 2% avg. Corn for grain, soybean, sunflower conditions improved slightly, while potatoes, sugar beets remained relatively unchanged. High winds have caused some sunflower damage. Emerged crop condition: grain 4% poor, 16% fair, 60% good, 20% excellent; silage 4% very poor, 13% poor, 36% fair, 40% good, 7% excellent. Potatoes 14% very poor, 14% poor, 23% fair, 40% good, 9% excellent. Soybeans 3% very poor, 4% poor, 25% fair, 48% good, 20% excellent. Sugar beets 5% very poor, 7% poor, 16% fair, 59% good, 13% excellent. Sunflower 2% very poor, 7% poor, 25% fair, 54% good, 12% excellent. Pasture feed 11% very poor, 33% poor, 39% fair, 17% good. Besides combining, fall tillage, hay hauling were major activities. Ranchers have been moving cattle from pasture as well as weighing and weaning newborn calves.

OHIO: Days suitable for fieldwork 5.1. Topsoil 1% very short, 13% short, 78% adequate, 8% surplus. Corn dented 5 days behind avg.; mature 12 days behind avg.; 22% harvested for silage, 25% 1996, 50% avg. Soybeans dropping leaves 3 days behind avg.; 18% matured.; harvested 6 days behind avg. Winter wheat planting 1 week behind avg. Alfalfa hay 87% 3rd cutting, 89% 1996, 94% avg. Other hay 65% 3rd cutting, 71% 1996, 79% avg. Hay 5% poor, 35% fair, 50% good, 10% excellent. Tobacco 79% harvested. Summer apples 95% harvested. Fall, winter apples 25% harvested. Potatoes 45% harvested, 55% 1996, 66% avg. Processing tomatoes 56% harvested, 77% 1996, 81% avg. Grapes 47% harvested. Activities: Mowing winter wheat stubble, pastures; raking, baling hay; filling silos; hauling, spreading manure on wheat stubble; applying lime to winter wheat stubble; fall plowing, other types of field preparations; sowing pasture fields; tiling fields; spraying herbicides; cutting firewood; fence maintenance; repairing, preparing machinery for harvest; attending, preparing for the Pumpkin Festival. Northern part: Growers are harvesting peaches, sweet corn, pumpkins, garden vegetables. Southern part: Growers are harvesting pumpkins, tomatoes, green beans, peppers. Reported weed pressures: Ragweed; Canadian

thistles; wild carrot; other grass, broadleaf weeds. Reported insects: European corn borer in corn, Japanese beetle in soybeans, potato leafhopper in alfalfa. Reported diseases: White mold in soybeans, powdery mildew in pumpkins.

OKLAHOMA: Days suitable for fieldwork 3.6. Topsoil 6% very short, 14% short, 59% adequate, 21% surplus. Subsoil 6% very short, 8% short, 80% adequate, 6% surplus. Cool, wet weather boosted wheat pasture germination, improved late development of most row crops. Wheat 91% seedbed prepared, 84% 1996, 91% avg. Oats 81% seedbed prepared, 88% 1996, 86% avg.; 11% planted, 27% 1996, 23% avg. Corn 97% mature, 75% 1996, 89% avg.; 72% harvested, 60% 1996, 71% avg. Soybeans 42% mature, 64% 1996, 51% avg.; 12% harvested, 14% 1996, 16% avg. Peanuts 27% mature, 49% 1996, 45% avg.; 0% combined, 3% 1996. Alfalfa hay 84% 4th cutting, 82% 1996, 86% avg.; 14% 5th cutting, 16% 1996, 25% avg. All other hay 56% 2nd cutting, 97% 1996, 99% avg. Livestock 3% poor, 15% fair, 77% good, 5% excellent. Feeder steer prices down \$1.50 to \$2.00 per cwt

OREGON: Days suitable for fieldwork 6.4. Topsoil 6% very short, 27% short, 67% adequate. Subsoil 4% very short, 30% short, 65% adequate, 1% surplus. Barley harvested 97%, 95% 1996, 94% avg.; planted 1%, 5% 1996, 11% avg. Winter wheat planted 24%, 17% 1996, 28% avg.; emerged 8%, 5% 1996, 8% avg. Activities: Westside field preparation, seeding of fall grains proceeded. Barley harvest completed, fall planting underway in most areas. Winter wheat planting continued. Hay growers got last cuttings of hay. Growers in eastern regions reported barley harvest nearly completed, winter wheat being planted. Klamath Basin reported irrigation lines being removed for sugar beet harvest. Third, 4th hay cuttings in some areas going slow, drying conditions poor due to showers. Nursery, greenhouse fall activities underway. Nursery crops welcomed rain last week. Considerable field planting underway along with digging of balled, burlapped plants. Willamette Valley growers report summer vegetable harvest nearly completed. Pumpkins, winter squash about ready for harvest. Cole crop, salad vegetables picking continued. Onion harvest continued. Weather conditions good as onion, potato harvest proceeded in most of eastern region. Some vegetable seeds still being harvested. Northeast reported harvest of late Russet Burbank starting. Willamette Valley hazelnuts still dropping, some harvest started; late apples, peaches being harvested. Caneberry training, pruning nearly completed, some thornless variety blackberries, everbearing strawberries still available. Rogue River Valley pear, apple harvests winding down, grape harvest began. South coast cranberry harvest began. Livestock in good to excellent condition. Westside fall grass growth started, nutritional value is low. Coastal areas reported some hay feeding. Eastside range, pasture continued to dry, despite light rainfall. High elevations in southeast had frost. Range grazing completed in Klamath Basin. Northeast yearlings being shipped, weaning underway.

PENNSYLVANIA: Days suitable for fieldwork 5.7. Good week for fieldwork. Soil moisture 6% very short, 30% short, 64% adequate. Ensilage corn harvest 42% complete, 42% 1996, 45% avg. Soybean 7% very poor, 16% poor, 46% fair, 28% good, 3% excellent. Wheat planted 40% complete, 29% 1996, 33% avg.; emerged 12% complete, 14% 1996, 14% avg. Barley planted 46% complete, 31% 1996, 42% avg.; emerged 22% complete, 20% 1996, 20% avg. Potato harvest 54% complete, 54% 1996, 60% avg. Alfalfa 3rd cutting 89% complete, 86% 1996, 84% avg.; 4th cutting 60% complete, 44% 1996, 46% avg. Quality of hay made 10% poor, 30% fair, 50% good, 10% excellent. Apple harvest 45% complete, 48% 1996, 50% avg. Grape harvest 30% complete, 49% 1996, 49% avg. Fall plowing 61% complete, 45% 1996, 54% avg. Activities: Harvesting fruits, vegetables; making hay and haylage; seeding barley, wheat; plowing fields; fixing fences; hauling manure; caring for livestock.

SOUTH CAROLINA: Days suitable for fieldwork 4.1. Soil moisture 1% very short, 12% short, 66% adequate, 21% surplus. Apples 76% harvested, 67% 1996, 66% avg.; 19% fair, 81% good. Barley 5% planted, 6% 1996, 3% avg.; 11% fair, 89% good. Corn 93% harvested, 86% 1996, 85% avg.; 3% poor, 18% fair, 56% good, 23%

excellent. Hay 100% harvested, 100% 1996, 100% avg. Oats 16% planted 11% 1996, 8% avg.; 7% emerged; 9% very poor, 11% poor, 18% fair, 50% good, 12% excellent. Rye 11% planted, 17% 1996, 12% avg.; 5% emerged, 4% 1996, 3% avg.; 59% fair, 41% good. Sorghum 70% harvested, 60% 1996, 48% avg.; 5% poor, 48% fair, 47% good. Soybeans 97% pods set, 97% 1996, 99% avg.; 29% leaves turning color, 23% 1996, 25% avg.; 17% leaves dropped, 8% 1996, 7% avg.; 14% mature, 6% 1996, 3% avg.; 3% very poor, 15% poor, 39% fair, 38% good, 5% excellent. Sweet potatoes 26% harvested, 23% 1996, 23% avg.; 1% very poor, 4% poor, 32% fair, 62% good, 1% excellent. Tobacco 99% harvested, 99% 1996, 97% avg.; 88% stalks destroyed, 65% 1996, 71% avg.; 1% poor, 17% fair, 69% good, 13% excellent. Winter grazings 31% planted, 26% 1996, 29% avg.; 22% emerged, 21% 1996, 18% avg.; 2% very poor, 6% poor, 39% fair, 52% good, 1% excellent. Winter wheat 14% planted, 3% 1996, 2% avg.; 3% very poor, 62% poor, 35% fair.

SOUTH DAKOTA: Days suitable for fieldwork 4.9. Topsoil 4% very short, 12% short, 77% adequate, 6% surplus. Subsoil 3% very short, 11% short, 77% adequate, 9% surplus. Stock water supplies 2% short, 91% adequate, 7% surplus. Major activities: Harvesting corn, sorghum for silage, seeding winter wheat, fall tilling, spraying. Sunflower 2% poor, 14% fair, 56% good, 28% excellent. Livestock 10% fair, 66% good, 24% excellent. Winter rye 82% planted, 65% 1996, 83% avg.; 65% emerged. Sunflower 96% bracts yellow, 94% 1996, 89% avg.; 57% mature, 50% 1996, 54% avg.; 3% harvested, 4% 1996, 5% avg. Soybeans 54% mature, 45% 1996, 41% avg. Corn silage 74% harvested, 55% 1996, 45% avg. Sorghum silage 61% harvested, 48% 1996, 38% avg.

TENNESSEE: Days suitable for fieldwork 3.5. Topsoil 8% short, 64% adequate, 28% surplus. Subsoil 3% very short, 12% short, 68% adequate, 17% surplus. Corn 91% mature, 98% 1996, 93% avg.; 54% grain harvested, 66% 1996, 54% avg.; 88% silage harvested, 93% 1996, 90% avg. Tobacco 81% burley harvested, 89% 1996, 90% avg.; 92% Air-cured harvested, 94% 1996, 93% avg.; 76% fire-cured harvested, 89% 1996, 92% avg. Sorghum 89% mature, 87% 1996, 94% avg.; 34% grain harvested, 36% 1996, 55% avg. Pasture feed 3% very poor, 16% poor, 38% fair, 38% good, 5% excellent. Last week's rainfall slowed the progress of corn, tobacco, sorghum harvest, while washing away some defoliants from the cotton crop. Soybean crop as well as hay fields, pastures did benefit from the much needed rain. Producers in west, parts of middle State encountered the most delays in harvesting activities, with some areas reporting as much as 7 inches of rain. Over three-fourths of the cotton acreage is showing open bolls, yet only a marginal amount has been harvested. Although corn for grain and silage harvest was slowed, progress remains in line with the five-year average pace. Tobacco harvest was ongoing around the rainfall, producers should wrap up soon, if the weather permits. Soybean crop is progressing well, and remains in mostly good condition. Adequate moisture has aided the progress of wheat seeding, in addition to improving the growth of pastures, hay fields.

TEXAS: Cool, wet conditions ushered in the week, causing delays in field activities in many areas. However, by midweek, equipment was again rolling as skies opened up and temperatures slowly increased. Cooler weather in the plains slowed the cotton maturing process early in the week. The beneficial rainfall helped small grain emergence and improved planting conditions. Harvest operations were winding down in many other areas by midweek. The rainfall benefited range and pasture conditions, and the cooler weather was welcomed relief for livestock. Crops: Small grains in early-planted fields in the plains were up and doing well. Planting activity was delayed early in the week. Moisture is expected to be adequate for producers to continue planting in the north-central area. Many producers continued to dry-plant small grains in central and southern areas. Scattered rain in these areas was beneficial. Corn harvest activity was delayed early in the week in the plains. However, producers resumed their harvesting by mid-week. Harvest was virtually completed in most Central and Upper Coast fields. Cotton harvest was underway in some fields in the plains. However, early-week rain stalled progress. Producers were back in their fields by midweek defoliating and harvesting. Cooler weather slowed boll

opening. Harvest was slowed by heavy rains along the Upper Coast. Delays lasted until late week, and in many cases, no harvest occurred for the week. Some fields were showing damage from heavy rains. Grain sorghum harvest was increasing into a few more fields by midweek in the plains. However, additional warmer weather was needed in some fields for maturing. Harvest also slowed in the north-central fields in the early week. Peanut harvest began in a few more fields in the north-central area, where producers are hoping for a late frost. Early yields were very good. Fields continued to peg in the Central area, while harvest increased in the south. Rice harvest operations were slowed along the Upper Coast by heavy rains. Some lodging occurred with these rains. Soybean harvest was getting underway in the Plains, when early-week rain delayed progress. Harvest was also delayed along the Upper Coast. Rainfall will help later varieties. Sugar beet harvest will begin soon in the plains.

Commercial Vegetables: In the Rio Grande Valley, land preparation and pre-watering occurred last week. In the San Antonio-Winter Garden, watermelons showed good growth, with little disease problems. Land preparations continued. In the High Plains, pepper harvest was winding down in some fields. In the east, sweetpotato harvest was slowed by wet conditions. Pecans: Early varieties entering the shuck stage, were split in some areas. A large crop is expected. However, soil moisture will be the deciding factor. Insect and disease problems were minimal for the most part.

Range and Livestock: Rainfall in most areas came at a time when many ranges and pastures were stressed by hot, dry conditions. Recently planted small grain fields for pasture also benefited from rain. Livestock enjoyed cooler temperatures early in the week. Supplemental feeding was increased for many herds.

UTAH: Days suitable for fieldwork 4.7. Topsoil 9% short, 88% adequate, 3% surplus. Subsoil 19% short, 78% adequate, 3% surplus. Irrigation water supplies 13% short, 84% adequate, 3% surplus. Stock water supply 3% very short, 12% short, 83% adequate, 2% surplus. Winter wheat 96% planted, 57% 1996, 65% avg.; 19% emerged, 39% 1996, 33% avg. Oats harvested for grain 90%, 90% 1996, 96% avg. Corn dough stage 92%, 87% 1996; dent stage 60%, 71% 1996; mature stage 18%, 45% 1996, 53% avg.; harvested for silage 42%, 56% 1996, 51% avg. Alfalfa hay 3rd cutting 68%, 86% 1996, 87% avg.; 4th cutting 32%, 37% 1996, 34% avg.; seed harvested 47%, 34% 1996, 61% avg. Potatoes 35% harvested, 44% 1996, 41% avg. Onions 48%, 60% 1996, 61% avg. Dry beans 80% harvested, 85% 1996. Pears picked 92%, 86% 1996, 96% avg. Apples picked 22%, 28% 1996, 41% avg. Cattle moved from summer range 30%, 48% 1996, 41% avg. Sheep moved from summer range 26%, 46% 1996, 39% avg. Pasture feed, range 3% poor, 9% fair, 64% good, 24% excellent. Major farm, ranch activities were: Harvesting hay, harvesting vegetables, picking fruit, planting winter grains, moving cattle, sheep from summer ranges.

VIRGINIA: Days suitable for fieldwork 5.2. Topsoil 22% very short, 37% short, 41% adequate. Subsoil 33% very short, 38% short, 29% adequate. Corn 100% dough, 100% 1996, 100% avg.; 93% dent, 90% 1996, 98% avg.; 73% mature, 73% 1996, 88% avg.; 37% harvested, 24% 1996, 42% avg.; 74% corn silage harvested, 58% 1996, 70% avg. Soybeans 100% bloomed, 100% 1996, 100% avg.; 94% setting pods, 96% 1996, 99% avg.; 28% dropping leaves; 22% very poor, 26% poor, 33% fair, 15% good, 4% excellent. Cotton 9% very poor, 14% poor, 26% fair, 46% good, 5% excellent. Summer apples 100% harvested, 100% 1996, 100% avg. Fall apples 33% harvested, 43% 1996, 59% avg. Peaches 100% harvested, 100% 1996, 100% avg. Flue tobacco 70% harvested, 79% 1996, 84% avg. Burley tobacco 86% harvested, 73% 1996, 83% avg. Dark fire cured tobacco 91% harvested, 94% 1996, 97% avg. Sun cured tobacco 95% harvested, 94% 1996, 96% avg. Peanuts 9% dug, 19% 1996, 21% avg.; 4% very poor, 16% poor, 42% fair, 34% good, 4% excellent. Pasture feed 14% very poor, 39% poor, 32% fair, 14% good, 1% excellent. Livestock 1% very poor, 6% poor, 31% fair, 58% good, 4% excellent.

WASHINGTON: Days suitable for fieldwork 6.6. Topsoil 1% very short, 17% short, 78% adequate, 4% surplus. Subsoil 9% short, 91%

adequate. Winter wheat 78% planted, 71% 1996, 67% avg.; 55% emerged, 57% 1996, 47% avg. Winter wheat seeding continued with southeastern counties reporting completion of the dryland portion of the crop. Some reseeding was underway due to rainfall causing problems with crusting. Corn 100% good; silage 60% harvested, 45% 1996, 55% avg. Potatoes 9% fair, 91% good.; 47% harvested, 49% 1996, 46% avg. Dry beans 100% good; 59% harvested, 55% 1996, 59% avg. Hay, other roughage supplies 10% short, 80% adequate, 10% surplus. Haying progressed well. Kittitas County reported 3rd cutting of alfalfa was ready to begin as soon as 2nd cutting was completed. Timothy grass producers were still struggling to finish 2nd cutting. Range, pasture feed 25% poor, 25% fair, 50% good. Pasture conditions continued to improve west of the Cascade mountains. Eastern areas pastures were holding very well. Pend Oreille County reported ranchers were making plans to move cattle off of mountain pasture lands. Blueberry harvest wound down. Cranberry quality, color continued to improve in Pacific County. In central areas apple, grape harvests were in full swing. Yakima County reported completion of the Golden Delicious apple harvest at higher altitudes, Red Delicious harvest was well underway. Hop harvest was winding down in Benton County. Alfalfa seed harvest was underway, sweet corn, onion harvest continued.

WEST VIRGINIA: Days suitable for fieldwork 5.3. Topsoil 3% very short, 21% short, 75% adequate, 1% surplus. Corn 7% very poor, 20% poor, 21% fair, 49% good, 3% excellent; 70% dent stage, 90% 1996; 35% mature, 52% 1996, 79% avg.; 8% harvested grain, 4% 1996, 34% avg. Hay 1% very poor, 12% poor, 37% fair, 46% good, 4% excellent; 2nd cutting 97%, 92% 1996, 96% avg.; 3rd cutting 55%, 52% 1996, 75% avg. Soybeans 38% fair, 60% good, 2% excellent; 80% dropping leaves, 62% 1996, 63% avg.; 2% harvested grain. Tobacco 93% harvested, 92% 1996, 90% avg. Wheat planted 30%, 21% 1996, 9% avg. Apple 48% fair, 43% good, 9% excellent; 40% harvested. Cattle 2% poor, 24% fair, 66% good, 8% excellent. Sheep 18% fair, 71% good, 11% excellent. Activities: Harvesting apples, corn, hay, tobacco, winter wheat planting, marketing calves, feeder cattle, calf weaning, general maintenance, clipping pastures.

WISCONSIN: Days suitable for fieldwork 5.7. Soil moisture 4% short, 87% adequate, 9% surplus. There were only reports of light, scattered frost, statewide. Soybean harvest has begun in Racine, Rock, Jefferson, Winnebago, Outagamie, Calumet, Juneau, St. Croix, Dane counties. Soybean leaves were dropping fast; 69% of the acreage had shed leaves, compared to 42% 1996, 43% avg. An Outagamie reporter noted a report of 14% moisture in some beans harvested. Soybean 2% poor, 15% fair, 56% good, 27% excellent. Corn silo filling was in full swing with 30% of the acreage chopped, same speed as 1996, but 2 points behind the 5-year average of 32%. Crooked stalks from root worm damage were observed in Kenosha County. Some ears were damaged by smut according to a Jackson County reporter. Farmers cut some late hay before the frost to get good quality baled hay. Manitowoc County reporter noted that the quality of third crop was good, quantity was down. Lima beans were harvested in Walworth County. Grant County reporter noted apples were yielding a pretty good crop. Potato harvest in Pepin County produced a very good crop with lots of tonnage. However, Dunn County there were reports of lower yields. Fall tillage was at 6% complete, compared to 7% 1996, 8% avg. Pasture feed 3% poor, 25% fair, 57% good, 15% excellent.

WYOMING: Days suitable for fieldwork 5.1. Topsoil 1% very short, 9% short, 83% adequate, 7% surplus. Subsoil 20% short, 80% adequate. 1998 winter wheat 96% planted, 98% 1997, 92% avg.; 83% emerged, 71% 1997, 61% avg.; 10% fair, 79% good, 11% excellent. Barley 95% harvested, 99% 1996, 99% avg. Oats 95% harvested, 95% 1996, 96% avg. Corn 79% mature, 90% 1996, 56% avg.; 2% harvested for grain, 11% 1996, 10% avg.; 89% harvested for silage, 89% 1996, 77% avg.; 1% poor, 3% fair, 86% good, 10% excellent. Dry beans 91% combined, 90% 1996, 70% avg. Sugar beets 5% harvested, 3% 1996, 9% avg.; 2% poor, 14% fair, 75% good, 9% excellent. Alfalfa 45% 3rd cutting complete, 68% 1996, 62% avg. Range, pasture feed 2% very poor, 2% poor, 10% fair, 69% good, 17% excellent.

International Weather and Crop Summary

September 21 - 27, 1997

HIGHLIGHTS

FSU-WESTERN: Early-week dry weather in Ukraine and southern Russia was replaced by cool, showery weather, slowing summer crop harvesting and winter wheat planting.

FSU-NEW LANDS: Unseasonably warm and generally dry weather favored spring grain maturation and harvesting.

EUROPE: Dry weather, except in Spain and southern Italy, favored summer crop harvesting and winter grain planting.

AUSTRALIA: Drier weather returned to the southeastern grain belt.

SOUTH ASIA: The receding monsoon generated beneficial rain for immature grains, oilseeds, and cotton.

CANADA: Warm, mostly dry weather aided final Prairie harvest efforts.

SOUTHEAST ASIA: Flooding assailed sections of Indochina, but drought persisted over Indonesia and Malaysia.

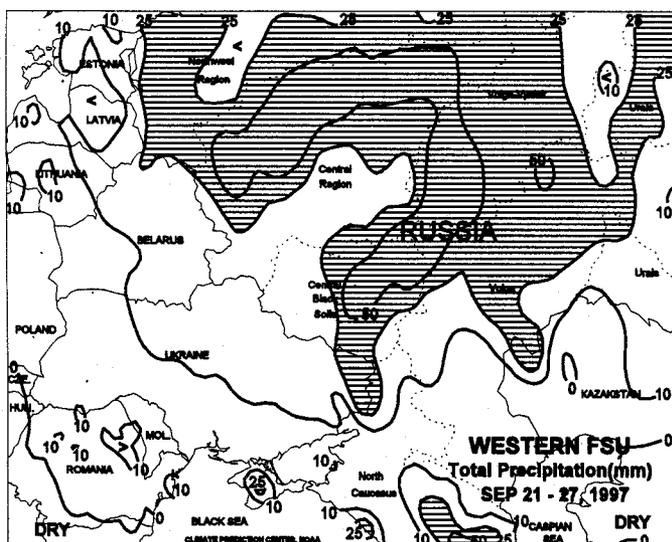
EASTERN ASIA: Dry weather aided summer crop harvesting and winter wheat planting in the North China Plain.

SOUTH AMERICA: Wet weather continued in Brazil, while mostly dry weather prevailed over crop areas in Argentina.

MEXICO: Tropical moisture benefited immature summer crops.

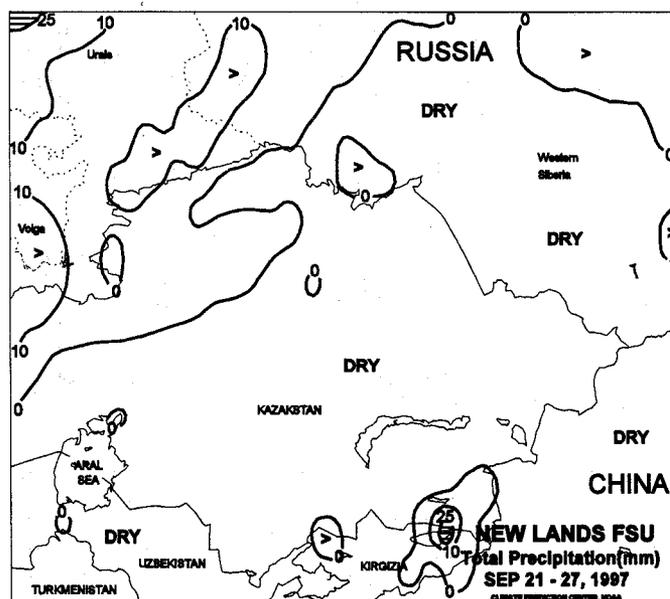
FSU-WESTERN

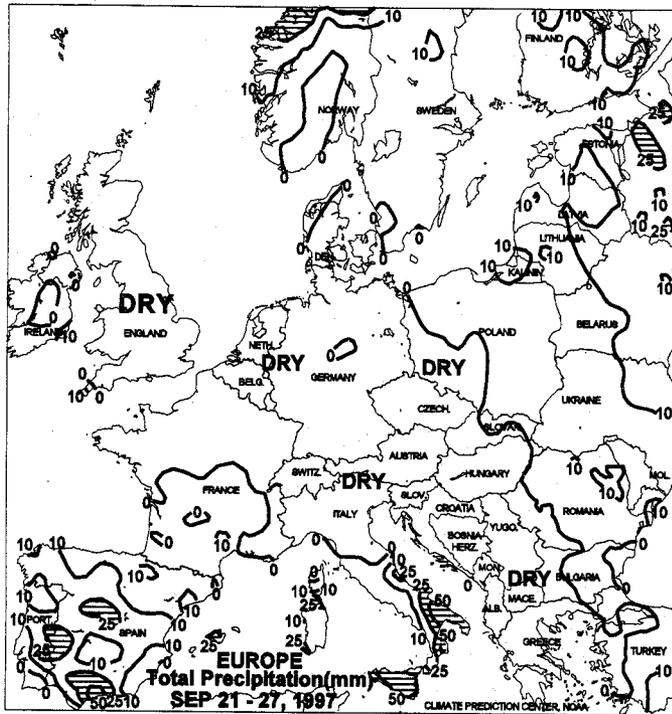
In Russia, periodic showers (19-69 mm) fell in northern and central areas (Northwest Region, Central Region, Volga Vyatsk, upper Volga Valley, and Central Black Soils Region), providing abundant topsoil moisture for winter grain establishment. In Ukraine and southern Russia (lower Volga Valley and North Caucasus), dry weather early in the week favored corn, sunflower, and sugar beet harvesting and winter wheat planting. Light showers developed in these areas on September 25 and persisted until the week's end, hampering fieldwork. Elsewhere, periodic light showers (5-20 mm) in the Baltics and Belarus slowed fieldwork but moistened topsoils for developing winter grains. Weekly temperatures averaged 2 to 4 degrees C below normal over most of Russia, Ukraine, Belarus, and the Baltics, slowing winter grain emergence and early development.



NEW LANDS

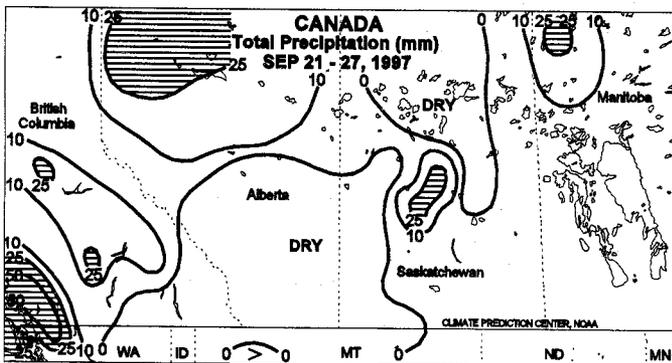
In Russia, unseasonably warm and generally dry weather provided nearly ideal weather conditions for spring grain maturation and harvesting. Reports as of September 22 for all of Russia indicated that small grains and pulses, excluding corn, were 83 percent harvested. In Kazakstan, the seventh consecutive week of dryness was accompanied by unseasonably warm weather, allowing spring grain harvesting to progress rapidly. Weekly temperatures averaged 4 to 7 degrees C above normal in Russia and Kazakstan. In cotton-growing areas of Central Asia, unseasonably warm, dry weather favored crop development and harvest activities.





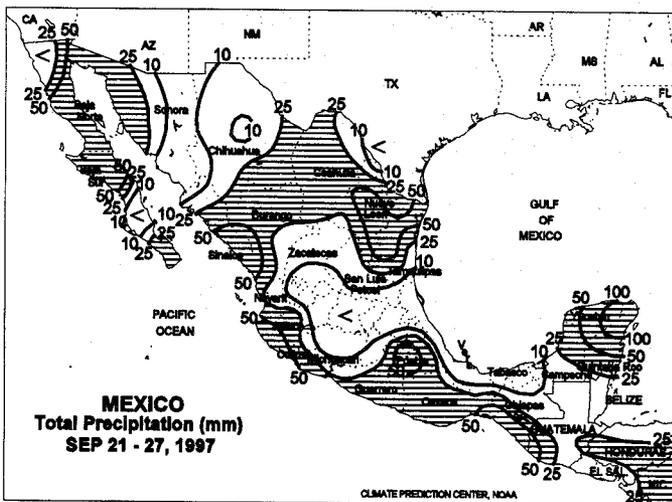
EUROPE

Dry weather prevailed over most of Europe, favoring rapid summer crop harvesting and winter grain planting. Reports indicated that winter barley planting was virtually completed in Germany. Typically, winter wheat planting begins in October in France, the United Kingdom, and Germany, often extending into December. In Scandinavia and eastern Europe, however, winter wheat planting mainly occurs from September through October. Significant precipitation during the week was confined to Portugal, Spain, and southern Italy, where early-season rains slowed summer crop harvesting. However, the precipitation increased topsoil moisture for upcoming winter grain planting. Weekly temperatures averaged 1 to 5 degrees C above normal in western Europe, favoring summer crop maturation and winter grain development. Weekly temperatures averaged 1 to 4 degrees C below normal in eastern Europe.



CANADA

Warmer, mostly dry weather across the Prairies aided final spring grain and oilseed harvesting. Temperatures averaged 5 to 8 degrees C above normal, with just a few eastern growing districts in Manitoba reporting subfreezing lows. In addition, the significant rainfall (10 mm or greater) in northernmost crop areas came after nearly a full week of fine harvest weather. In Ontario and Quebec, cool, dry weather covered the main agricultural areas. Temperatures dipped to near frost levels (1-3 degrees C) at most locations. The cold heightened concerns for freeze damage on summer crops, which have been lagging in development all season.

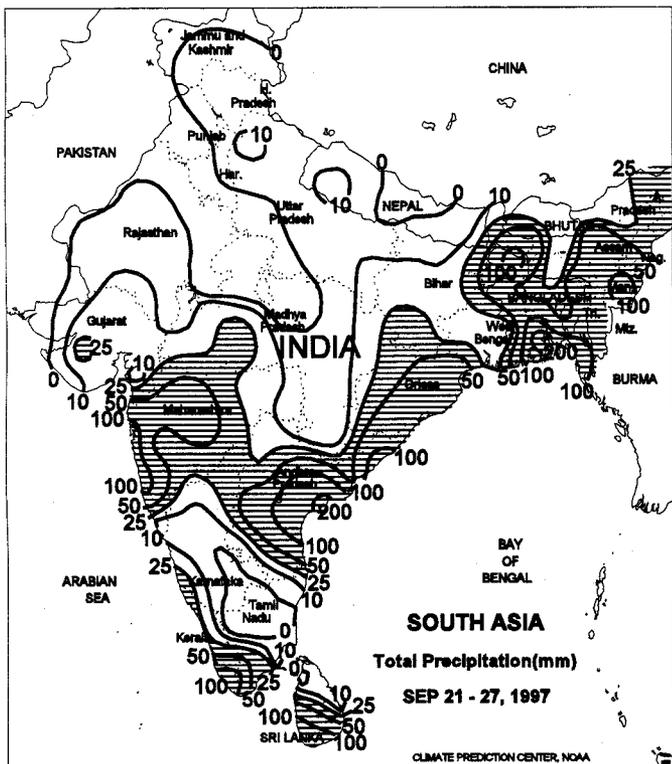


MEXICO

Two tropical storm systems made landfall in Mexico this past week. Nora, a minimal strength hurricane, struck Baja California on the 25th. This storm interacted with a low pressure center in the western Gulf of Mexico to induce 25 to 50 mm or more of rainfall across much of north-central and northeastern Mexico, benefiting immature summer crops. Variable amounts of rain (10-50 mm or more) also fell in the northwest along the path of Nora. On the 28th, Tropical Storm Olaf struck the southern coast with sustained winds of about 45 knots (50 m.p.h.). The heaviest rainfall (50 mm or greater) was confined to coastal areas eastward to Guatemala, but moderate showers (10-25 mm or more) reached eastern sections of the corn belt.

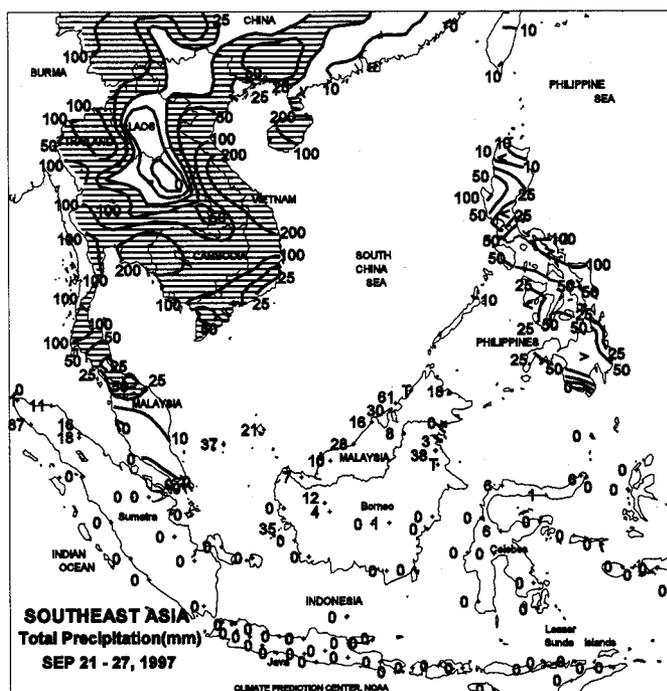
SOUTH ASIA

Beneficial rain (10-25 mm, exceeding 50 mm at many locations) over central and southern India increased moisture for immature grains, oilseeds, cotton, and sugarcane. The rainfall was concentrated over a broad section of west-central India, stretching from Gujarat and western Madhya Pradesh to southern Andhra Pradesh. Monsoon rains have been sporadic over this part of India for much of the season, making this week's rainfall important for stabilizing yield potentials. Farther east, moderate to heavy rain (25-50 mm or more) continued throughout the main rice areas, maintaining ample moisture levels for crops in various stages of development but worsening local flooding. The moisture was partly associated with a tropical cyclone that brushed eastern Bangladesh with sustained winds of 65 knots. The monsoon is retreating from South Asia about on schedule, leaving dry, warm weather in its wake across Pakistan and north-central India.



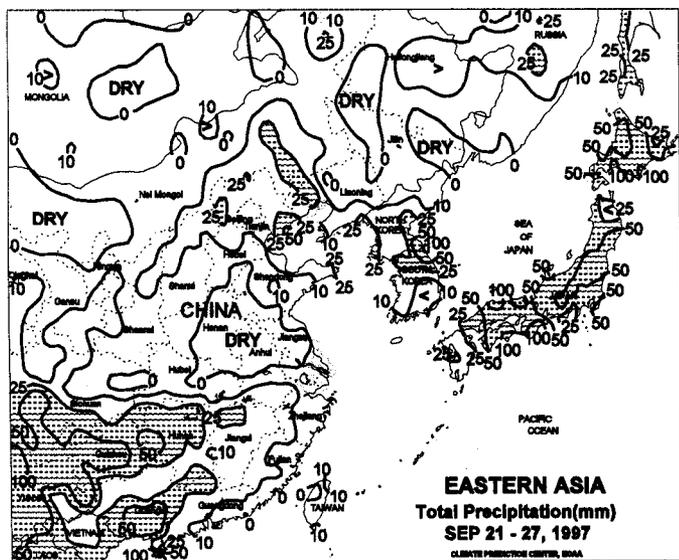
SOUTHEAST ASIA

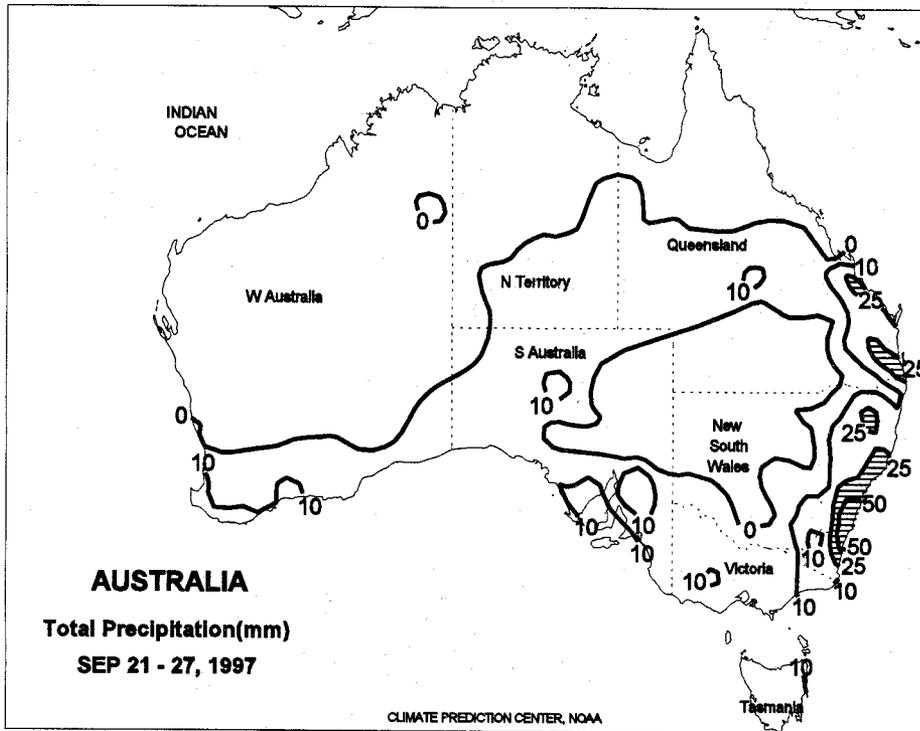
Typhoon Fritz hit central Vietnam with sustained winds of about 75 knots. The storm generated inundating rains (100 to over 300 mm) along a broad area of the coast, disrupting rice harvesting and likely causing some crop damage and flooding. Flooding also occurred along Thailand's Chao Phraya River as heavy rain (50-100 mm or more) covered a broad area of central Thailand north of Bangkok. However, the rain will increase irrigation reserves for secondary rice. Unfortunately, dry pockets continued in northeastern Thailand, reducing moisture for that area's winter crops. Elsewhere, scattered showers (25-50 mm or more) continued across the Philippines, although a few dry pockets lingered in northern Luzon. In contrast, an unrelenting drought continued over Indonesia and parts of Malaysia, restricting early-season preplanting activities. The lack of rain in this region has exacerbated the hazardous smoke and smog situation.



EASTERN ASIA

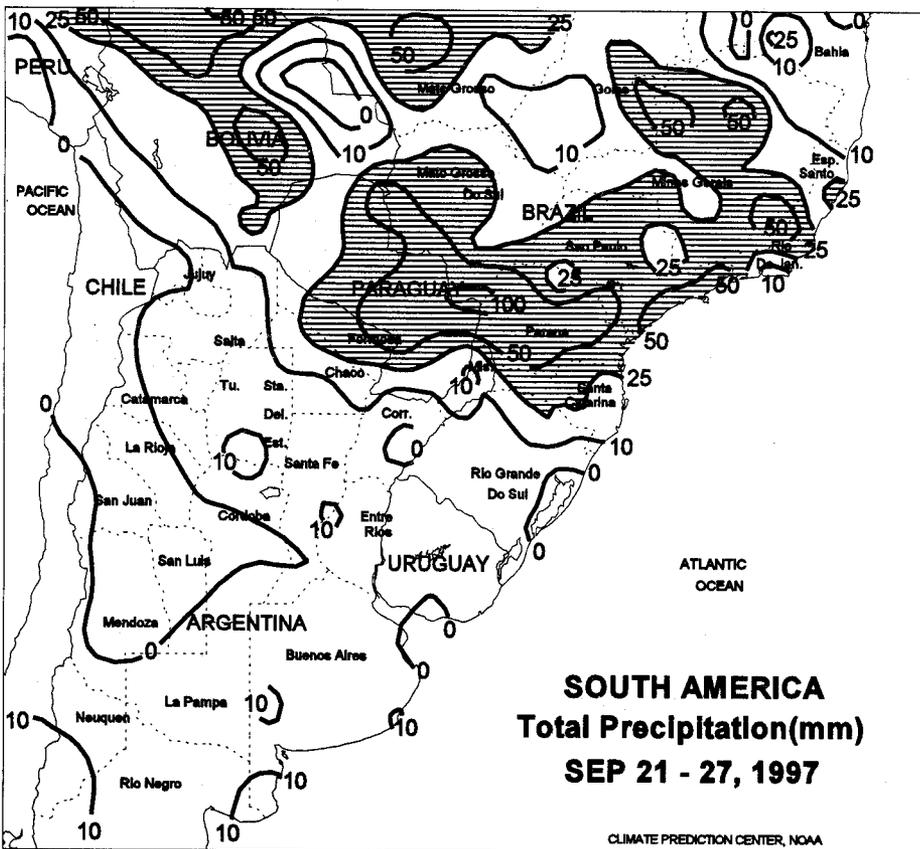
Mostly dry, albeit cool weather (temperatures averaging 1-3 degrees C below normal) continued over the North China Plain, spurring summer crop harvesting and winter wheat planting. Dry, seasonably cool weather also favored summer crop maturation and harvesting in Manchuria. In contrast, wet weather (10-50 mm or greater, exceeding 100 mm at some coastal locations) over the Korean Peninsula and Japan hindered development of rice and other summer crops, resulting in some localized flooding. Across southern China, cool, wet weather (temperatures averaging 2-5 degrees C below normal, with rainfall of 10-50 mm or greater) south of the Yangtze Valley maintained ample moisture supplies for late double-crop rice but fostered sluggish growth rates.





AUSTRALIA

Generally light, scattered showers swept across winter grain areas of the southeast and west, with just a few locations recording more than 10 mm. Temperatures were seasonably mild, favoring vegetative growth of barley and wheat. Moderate showers (10-25 mm or more) covered coastal locations of New South Wales and southern Queensland. The moisture was favorable for newly planted sugarcane in southern growing areas, as well as sorghum and cotton in eastern-most locations. Summer crop areas west of Darling Downs need additional rainfall before planting can become widespread. In New Zealand, moderate to heavy rain (25-50 mm or more) soaked agricultural areas over the northern two-thirds of North Island. South Island remained drier, with precipitation in the main pasture areas totaling 15 mm or less.



SOUTH AMERICA

In Argentina, light showers (less than 10 mm) fell over Buenos Aires during the week, moistening topsoils for winter wheat emergence and establishment. Farther north, mostly dry weather prevailed over Cordoba, Santa Fe, and Entre Rios, favoring early corn and sunflower planting. However, rain was needed in these areas for summer crop emergence and winter wheat development. Weekly temperatures averaged 1 to 3 degrees C below normal in eastern Buenos Aires and 1 to 3 degrees C above normal over the remainder of Argentina. In southern Brazil, wet weather (25-83 mm) continued over Santa Catarina and Parana, and spread northward into Sao Paulo, Minas Gerais, and Mato Grosso Do Sul. Although the rain interrupted winter wheat harvesting in these areas, it boosted topsoil moisture for upcoming corn and soybean planting, which typically begins in October. The precipitation also spurred flowering in coffee areas. Elsewhere, mostly dry weather prevailed over winter wheat areas in Rio Grande Do Sul. Weekly temperatures averaged 1 to 3 degrees C above normal in most areas of southern Brazil.

The *Weekly Weather and Crop Bulletin* is published weekly and jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the *Weekly Weather Chronicle*. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53rd Congress, 3rd Session. NOAA is responsible for managing, printing, and distributing the bulletin. The contents may be reprinted freely, with proper credit.

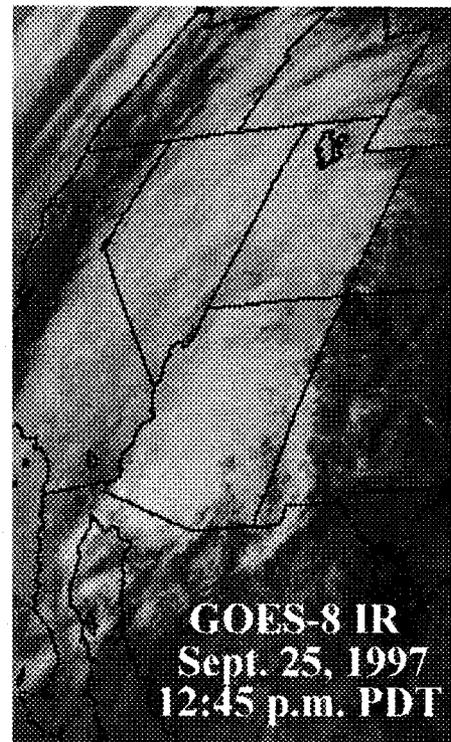
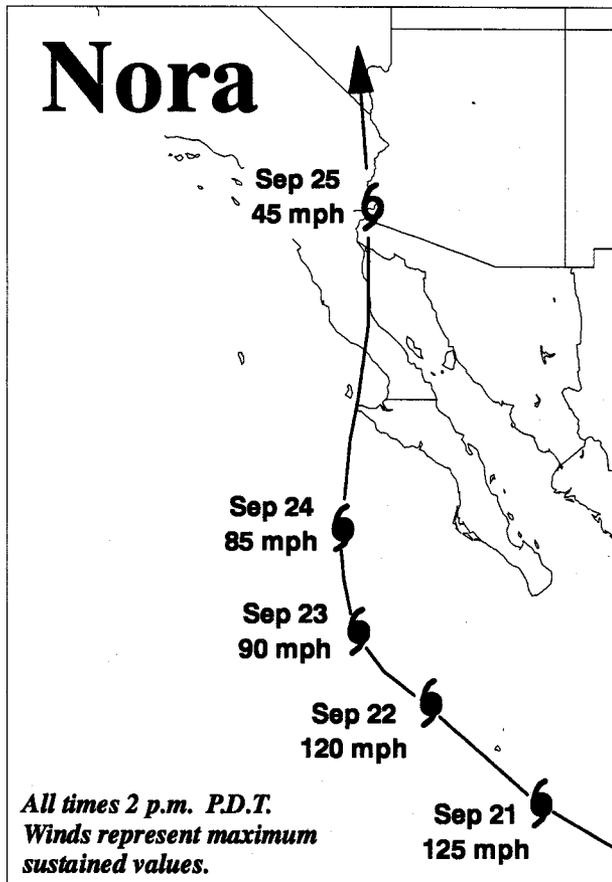
Annual subscriptions: domestic first class \$45, foreign \$55 (in U.S. funds by international money order or check drawn on U.S. bank) payable to U.S. Department of Commerce, NOAA. POSTMASTER: Send address changes to: Climate Prediction Center, W/NP52, Attn: *Weekly Weather and Crop Bulletin*, NOAA/NWS/NCEP, 4700 Silver Hill Road, Stop 9910, Washington, DC 20233-9910. Order subscriptions from the office and address listed above. First-class postage paid at Washington, DC, and other mailing offices. Correspondence to the meteorologists should be directed to: *Weekly Weather and Crop Bulletin*, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 5844, Washington, DC 20250. Internet URL: <http://www.usda.gov/oc/waob/jawf>; E-mail address: wwcb@jawfsrv.wwb.noaa.gov

U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration
 National Weather Service/Climate Prediction Center
 Managing Editor **Douglas Le Comte** (202) 720-7919
 fax (202) 720-1455
 Editor **Brad Rippey** (202) 720-1444
 Meteorologists **David Secora, Jeff Savadel, Brian Morris**
 Special Requests (202) 720-7917
 Subscriptions **John Kopman** (301) 763-8227, ext. 7534
 fax (301) 763-8395

U.S. DEPARTMENT OF AGRICULTURE

Economic Research Service
 E.R.S. Editor **Sharon Lee**
 National Agricultural Statistics Service
 Agricultural Statistician **Rhonda Brandt** (202) 720-7621
 State Summaries Editor **Klara Haskins** (202) 720-8033
 World Agricultural Outlook Board
 Agricultural Weather Analysts **Ray Motha**
 **Tom Puterbaugh, Mark Brusberg, Bob Stefanski**
 Secretary **Teressa Davis** (202) 720-9807



Tropical Storm Nora, above, enters the lower Colorado River basin.

Climate Prediction Center, W/NP52
 Attn: *Weekly Weather & Crop Bulletin*
 NOAA/NWS/NCEP
 4700 Silver Hill Road
 Stop 9910
 Washington, DC 20233-9910

WEEKLY NEWS BULLETIN
FIRST CLASS

FIRST CLASS MAIL
 POSTAGE & FEES PAID
 NOAA
 PERMIT NO. G-19

OFFICIAL BUSINESS
 PENALTY FOR PRIVATE USE, \$300